OFFICIAL GAZETTE

UNITED STATES PATENT OFFICE

SEPT. THRU OCT.

VOL 374 - 375

1928

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

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SEPTEMBER

1928

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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (a) and of the Supreme Court of the United States by the letter (s).]

ERRATA.

34,645 (Label), page 760, name of registrant, for "The Under Commercial Company" read *The Unger Commercial Company.*

Patents Nos. 1,682,731 to 1,683,588.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 374—No. 1. TUESDAY, SEPTEMBER 4, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

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Issue of September 4, 1928.

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Labels	33—No.	34,513 to No.	34,545, inclusive.
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Designs	63—No.	76,215 to No.	76,277, inclusive.
Patents	858—No.	1,682,731 to No.	1,683,588, inclusive.
Total	1,382		

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,539,063, J. R. Snyder, Rebound controller, decided June 26, 1928, claim 10.

Pat. 1,598,000, Nilson and Prince, Radio condenser adjustment, decided Aug. 15, 1928, claim 2.

NOTICE.

Additional Claims.

U. S. Patent Office, *Washington, Aug. 18, 1928.*

My attention has just been called to an application filed with 64 claims and a filing fee of $64.00, as required by statute. Six days after the application was filed the applicant presented an amendment adding 84 additional claims, without the extra fee of $1.00 per additional claim, as would have been required by the statute had the claims been presented six days earlier. In cases in which claims in excess of the number corresponding to the filing fee are presented before the first official action on the case, the Examiners will place the amendment in the file and enter it on the file wrapper, but will defer action on the claims presented in the amendment. In his first action the Examiner should act on the claims originally presented and for which the appropriate fee was paid. If, after the official action is made, the applicant believes that any of the claims presented by the amendment are patentable, he can have them entered and considered in the next action, but only by specifically pointing out wherein the claims presented in the amendment are patentable over the references cited by the Examiner.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notice.

U. S. Patent Office, *Washington, Aug. 11, 1928.*

Union Baking Company, Incorporated, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Fischer Baking Co., of Rose and Livingston Streets, Newark, N. J., for registration of a trade-mark and trade-mark registered September 16, 1924, No. 189,190, to Union Baking Company, Incorporated, of Fifth and Columbia Streets, Vancouver, Wash., and a notice of such declaration sent by registered mail to said Union Baking Company, Incorporated, at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Union Baking Company, Incorporated, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

8630

Condition of Applications Under Examination at Close of Business August 24, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 112,035; Trade-Mark Division, 1,664. Oldest new case, Oct. 24, 1927; oldest amended, Oct. 24, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application awaiting office action.	Oldest amended application awaiting office action.	No. of applications awaiting action.
		New.	Amended.	
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	†Jan. 16	†Jan. 16	1,543
126	2. HADENC. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	†Jan. 11	†Jan. 19	1,659
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Dec. 17	†Jan. 10	1,582
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Nov. 1	Nov. 8	1,655
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Nov. 21	Nov. 21	1,586
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Dec. 6	Dec. 27	2,562
106	7. JARBOE, C. G., Optics; Photography	Nov. 16	Nov. 14	1,962
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	†Jan. 6	†Jan. 18	1,709
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Mar. 10	†Mar. 12	1,653
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Dec. 3	Dec. 31	1,822
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Feb. 1	†Feb. 1	1,000
380	12. PIERCE, P. P., Machine Elements	Dec. 14	Dec. 29	2,061
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Jan. 11	†Jan. 12	1,419
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Nov. 22	Dec. 1	1,217
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 5	Dec. 23	2,450
242*	16. SPENCER, C. J., Telegraphy; Telephony	†Jan. 25	†Jan. 20	1,162
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Dec. 10	†Jan. 5	1,482
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 12	Dec. 13	1,610
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	†Jan. 6	Dec. 21	1,931
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Mar. 7	†Mar. 8	1,514
212	21. THURBUR, W. L., Textiles; Cloth Finishing	Dec. 12	†Jan. 5	1,111
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Nov. 25	Dec. 16	1,617
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Nov. 7	Nov. 9	1,132
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 11	Nov. 12	1,504
302*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 21	†Feb. 1	1,583
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Nov. 30	Dec. 1	1,229
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Jan. 12	†Jan. 23	1,417
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 23	Nov. 26	2,038
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Dec. 19	Dec. 2	1,173
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 3	†Jan. 20	1,490
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Dec. 20	Dec. 12	2,211
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Dec. 2	Dec. 5	2,257
162	33. WYMAN, W. L., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Mar. 21	†Mar. 21	1,935
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Nov. 10	Nov. 18	1,487
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	†Jan. 4	†Mar. 22	1,737
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	†Feb. 8	†Jan. 27	1,993
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 5	†Jan. 20	2,192
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Jan. 23	†Jan. 31	1,852
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 3	Nov. 1	1,896
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Dec. 6	Dec. 5	2,688
126	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Dec. 31	†Jan. 4	1,497
223*	42. CUTTING, H. O., Electric Signaling	Dec. 5	Dec. 29	1,662
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Dec. 30	†Feb. 1	2,117
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Dec. 15	Dec. 16	2,122
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Nov. 11	Nov. 25	2,476
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Nov. 12	Nov. 12	1,867
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Dec. 27	†Jan. 3	2,035
212*	48. ROEPKE, O. B., Electricity, General Applications	†Jan. 4	†Jan. 3	1,584
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Nov. 16	†Jan. 7	1,498
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	†Jan. 6	†Jan. 6	2,509
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Dec. 13	Dec. 12	2,283
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	†Jan. 16	†Jan. 12	2,143
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Dec. 27	†Jan. 4	1,789
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Dec. 8	Dec. 8	2,387
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery / Designs	Dec. 1 / †July 2	Dec. 1 / †July 10	932 / 831
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Oct. 27	Oct. 31	2,623
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Dec. 19	Nov. 28	1,176
270*	58. DOWELL, E. F., Abrading; Typewriting	Nov. 4	Nov. 21	1,466
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	Oct. 24	Oct. 24	2,308
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Nov. 19	Dec. 8	1,620
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Oct. 25	†Feb. 9	2,137
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	Nov. 23	Nov. 26	2,692
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks / Labels and Prints	†July 26 / †Aug. 4	†Aug. 14 / †Aug. 13	1,509 / 155

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Supreme Court of the United States.

L. P. Larson, Jr., Company *v.* Wm. Wrigley, Jr., Company.

Decided May 14, 1928.

Trade-Marks — Infringement — Computation of Profits—Federal Income Tax Not Excluded.

In an accounting for the infringement of a trade-mark the Federal income and excess-profits taxes can not be deducted from the defendant's profits with which it is to be charged.

On writ of certiorari to the Circuit Court of Appeals for the Seventh Circuit.

Mr. Chas. H. Aldrich and *Mr. Geo. I. Haight* for L. P. Larson, Jr., Co.

Mr. Isaac H. Mayer and *Mr. Wallace R. Lane* for Wm. Wrigley, Jr., Co.

Mr. Justice Holmes delivered the opinion of the Court.

There has been long litigation between the parties in this suit, the last stage of which appears in 20 F. (2d) 830. The Wrigley Company was ordered to account for net profits on sales of its "Doublemint" gum in a package dress that infringed the Larson Company's "Wintermint" gum package. During the accounting questions arose that were decided by the circuit court of appeals. To review one of these questions a writ of certiorari was granted by this Court. That question is whether, as held below with modifications that need not be mentioned, the Wrigley Company should be allowed to deduct the Federal income and excess-profits taxes from the profits with which it is to be charged.

No doubt there are cases in which such a deduction would be proper. But the question can not be answered by the merely formal reply that if the Larson Company chooses to make the Wrigley Company its agent or trustee ex maleficio and to demand the profits made by the agent it must take the burden with the benefit and can have no more than the agent made in fact. To call the infringer an agent or trustee is not to state a fact but merely to indicate a mode of approach and an imperfect analogy by which the wrongdoer will be made to hand over the proceeds of his wrong. Circumstances will affect the conclusion, including in them the knowledge and the conduct of the party charged. It would be unjust to charge an infringer with the gross amount of his sales without allowing him for the materials and labor that were necessary to produce the things sold, but it does not follow that he should be allowed what he paid for the chance to do what he knew that he had no right to do. That is the position of the Wrigley Company as we understand the findings in the successive stages of this suit. 253 Fed. Rep. 914, 916; 275 Fed. Rep. 535, 537, 538; 5 F. (2d) 731, 739; 20 F. (2d) 830, 831. Even if the only relief that the Wrigley Company can get is a deduction from gross income when the amount of its liability is finally determined, the Larson Company will have to pay a tax on the Wrigley profits when it receives them, and in a case of what has been found to have been one of conscious and deliberate wrongdoing, we think it just that the further deduction should not be allowed.

Decree as to allowance of Federal taxes reversed.

Court of Appeals of the District of Columbia.

In re Riedel.

No. 1,971. Decided March 5, 1928.

Patentability—Stimulation of Plant Growth by Carbonic Acid.

Claims for a process of stimulating plant growth by enriching the surrounding atmosphere with carbonic acid derived from the waste products of combustion of an industrial operation, the chemical impurities which would be injurious to such growth having been removed, *Held* unpatentable in view of the prior art.

Appeal from the Patent Office. Affirmed.

Mr. Hans v. Briesen for Riedel.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before Martin, Chief Justice, Van Orsdel, Associate Justice, and Smith, Judge of the U. S. Court of Customs Appeals.

Smith, *J.:*

This is an appeal from the decision of the Commissioner of Patents affirming a decision of the Examiners in Chief which affirmed the action of the Examiner rejecting the claim of the application for a patent made by Friedrich Riedel.

The subject matter of Riedel's application for a patent is a process which has for its purpose the enriching with carbonic acid of the atmosphere which envelops plants by using carbonic acid containing the exhaust gases resulting from combustion after the removal therefrom of dust, soot, oil, tar, unconsumed hydrocarbons, sulphur compounds, and the like. The application contains seven claims of which the following are typical:

1. The process of utilizing waste products of combustion of an industrial operation, which consists in leading said products, freed from mechanical and chemical impurities which in themselves would be directly injurious to plant life, into the direct vicinity of growing plants.

3. The process which consists in artificially supplying to the atmosphere enveloping growing vegetable matter and in volumes sufficient to elevate the carbon dioxide content of the air adjacent to said growing matter, gases, the ordinary products of combustion of such as result from an industrial operation, relatively rich in carbon dioxide, but freed from mechanical constituents which in themselves would be injurious to vegetable growth.

7. The process which consists in artificially supplying to the atmosphere enveloping growing vegetable matter, at points adjacent to said growing matter, persistent volumes of carbon dioxide accompanied by gases which are neutral, inert or harmless in their action on plant life, said gas mixture being derived from otherwise waste products of combustion.

Riedel's specification and claims make it evident that he bases his right to a patent on the utilizing for plant growth of carbon dioxide derived from

the products of combustion and diluted with nitrogen, oxygen and neutral or inert gases after the elimination from such products of constitutents thereof injurious to plant life.

Removal from the products of combustion of gases and other matter deleterious to health or vegetation is nothing new and indeed methods and means for accomplishing that result were known and patented by Gilliland and Lambert long prior to the filing of Riedel's application. Development of a new process and method for the purification of combustion gas products may still be the objective of inventive endeavor but a careful reading of Riedel's specification and claims fails to reveal any purpose on his part to compete in that field of action. Indeed his specification affirmatively indicates that he relies on known mechanisms for the removal of dust, soot, oil, tar, unconsumed hydrocarbons, sulphur compounds and other injurious constitutents of combustion products. The product which Riedel uses for the promotion of plant growth is not that which comes directly from the chimney or flue but a product produced by removing from the original material most of its components. The substance so produced contains as its principal elements *carbon dioxide*, nitrogen, oxygen and inert or neutral gases. Those constituents, after all is said and done, are the principal components of pure air which contains carbon dioxide, oxygen, nitrogen, and such inert neutral gases as argon and helium. What is the proportion of carbon dioxide, nitrogen, oxygen and neutral gases in the purified substance "led to the vicinity of growing plants" is not disclosed by the specifications or set out in the claim. For all that appears from the application the mixture of gases conducted to the plants does not differ materially from purified air and, so conducted, brings to the air surrounding the plants nothing more than carbon dioxide, oxygen, nitrogen, argon and helium, which are the components of air.

Riedel claims that his product is rich in carbon dioxide but how much carbon dioxide that product contains he fails to state. He does not pretend to say that there is in the gaseous substance produced by his process any element other than carbon dioxide, which beneficially affects plant growth. That carbon dioxide promotes plant development has long been known and Riedel expressly admits that the increase of plant growth by such means was not originated by him. Riedel's process at best accomplishes nothing more than the bringing of *additional* carbon dioxide to the air enveloping plants. The furnishing of additional carbon dioxide to plants was not first conceived by Riedel but by Schroder, who as early as March, 1897, secured a patent for supplying plants with a mixture of carbon dioxide and air and devised the means for regulating the supply of the mixture.

Of course, if Riedel had discovered a *new* combination or mixture of substances which would permit the use of a larger percentage of carbon dioxide without detriment to plant development or which would obviate dangers to plant life by the use of such larger percentage, it might be well argued that his conception was novel and patentable. As we read Riedel's application, however, no such conception can be deduced from his specification or claims.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

OLDROYD *v.* MORGAN.

Nos. 2,018 and 2,019. Decided March 5, 1928.

INTERFERENCE—PRIORITY—CONCURRENT DECISIONS OF THE PATENT OFFICE.

It is the established rule that ordinarily three concurrent decisions of the Patent Office will be accepted by the court of appeals as conclusive and will not be reversed except in extreme cases where palpable error has been committed.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Cyrus Kehr for Oldroyd.

Mr. C. M. Nissen and *Mr. A. J. Crane* for Morgan.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

MARTIN, *C. J.*:

These are interference proceedings. The appeals have been submitted together, but appeal No. 2,018 will be taken up first.

The invention relates to coal-mining machinery, and the issue is defined by a single count which reads as follows:

In a machine of the nature described, the combination of a body turnable horizontally, means for turning said body, a tool rotatable on a horizontal axis, mechanism for effecting rotation of said support, a cutting tool, members supporting said tool on said support for movement toward and from the axial line of said support, means on said rotatable support for actuating said supporting members for moving said tool toward and from the axial line of the rotary support, and means extending along the axis of said support for actuating said cutting tool, substantially as described.

Morgan is the senior party, his application having been filed on June 23, 1913. Oldroyd's application was filed on January 8, 1921, on which a patent was granted on June 26, 1923. No testimony was taken by either party.

Oldroyd, the junior party, filed a motion to dissolve the interference on the grounds that Morgan was not entitled to make the claim because it is not supported by his disclosure, and also that Morgan is estopped from making the claim because of his delay in prosecuting his application. The Law Examiner denied the motion as to the first ground, and the Examiners in Chief dismissed Oldroyd's appeal as to both grounds. The Examiner of Interferences accordingly awarded priority to Morgan. This decision was affirmed by the Examiners in Chief, and their decision in turn was affirmed by the Commissioner of Patents; and priority of invention was awarded by the Commissioner to Morgan. This appeal was then taken.

It thus appears that Morgan's right to make the claim in issue has been affirmed by three concurring decisions of the Patent Office, and it is the established rule that ordinarily such decisions will be accepted by this court as conclusive, and will not be reversed except in extreme cases where palpable error has been committed. In *Beechman* v. *Southgate*, 127 O. G. 1254, 28 App. D. C. 405, this court said:

Ordinarily, where the point has been raised whether the application of one of the parties was broad enough in the terms of its specification and claims to embrace the invention of the other, and especially where the invention is one of elaborate and complicated mechanism, the decisions of the expert tribunals of the Patent Office in respect of identity have, for obvious reasons, been accepted as conclusive.

In *Leonard* v. *Everett*, 52 App. D. C. 90, this court said:

Where the tribunals of the Patent Office unite in a conclusion as to the right to make the counts of an interference relating to a technical matter, the court of appeals will not disturb their action, unless manifestly wrong.

This rule acquires emphasis by reason of its repeated reaffirmance. See *Stone* v. *Pupin*, 100 O. G. 1113, 19 App. D. C. 396; *Flora* v. *Powrie*, 109 O. G. 2443, 23 App. D. C. 195; *Seeberger* v. *Dodge*, 114 O. G. 2382, 24 App. D. C. 476; *Podlesak* v. *McInnerney*, 120 O. G. 2127, 26 App. D. C. 399; *Kilbourn* v. *Hirner*, 128 O. G. 1689, 29 App. D. C. 54; *MacMulkin* v. *Bollee*, 130 O. G. 1691, 30 App. D. C. 112; *Lindmark* v. *Hodgkinson*, 137 O. G., 228, 31 App. D. C. 612; *Healy* v. *Inwood*, 176 O. G. 275, 38 App. D. C. 78; *Thomas* v. *Weintraub*, 177 O. G. 772, 38 App. D. C. 281; *Grabowsky* v. *Gallaher*, 191 O. G. 835, 39 App. D. C. 548; *Hathaway* v. *Colman*, 261 O. G. 413, 46 App. D. C. 40; *Lautenschlager* v. *Glass*, 249 O. G. 1223, 47 App. D. C. 444; *Blaine* v. *White*, 277 O. G. 787, 50 App. D. C. 38; *Ruth* v. *Groch*, 296 O. G. 839, 51 App. D. C. 226.

The invention involved in this appeal consists of complicated mining machinery, and the case justifies a careful observance of the foregoing rule. We have carefully examined the record and do not find in it any manifest ground for a reversal of the decisions appealed from. We have reached the same conclusion as to appeal No. 2,019. We may add that we find no ground for an estoppel against Morgan because of delay in prosecuting his application.

The decision of the Commissioner of Patents awarding priority to Morgan in each appeal is affirmed.

Court of Appeals of the District of Columbia.

POSTUM CEREAL COMPANY, INC., *v.* FARMERS MILL & ELEVATOR ASSOCIATION.

No. 2,021. Decided March 5, 1928.

TRADE-MARKS—SIMILARITY—"WHEAT-NUT" AND "GRAPE-NUTS."

The words "Wheat-Nut," as a trade-mark for a cereal breakfast food, *Held* deceptively similar to the term "Grape-Nuts" previously used as a trade-mark for the same goods.

APPEAL from the Commissioner of Patents. Reversed.

Mr. Edward S. Rogers for Postum Cereal Co., Inc.

Mr. C. A. O'Brien and *Mr. B. F. Garvey* for Farmers Mill & Elevator Association.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

VAN ORSDEL, *J.*:

Appellant, Postum Cereal Company, the owner of the registered trade-mark "Grape-Nuts," used as a name for cereal breakfast foods, filed an opposition to the registration by appellee, Farmers Mill & Elevator Association, of the words "Wheat-Nut" as a name for cereal breakfast foods. From the decision of the Commissioner dismissing the opposition, this appeal is taken.

It appears that since 1897 appellant company and its predecessor have been manufacturing and putting on the market the breakfast food made of wheat and barley under the trade-mark name of "Grape-Nuts." An enormous business has been built up by this company, and it is claimed that it will be damaged by the registration of the word "Wheat-Nut" because of the similarity of the marks.

In considering the matter of confusing similarity, we think it important to examine into the character of the goods on which the marks are used. The goods are both largely wheat products. The users of grape-nuts are familiar with the fact that the cereal sold under that name is chiefly produced from wheat; hence the adoption of the word "wheat" as part of appellee's mark is merely the name of the product on which the marks are used. This we deem important in determining whether or not the marks are so similar as to lead to confusion. The purchasing public seeking a wheat cereal might easily be misled by the similarity of the marks applied to the same product.

This case can be distinguished from the case of *Postum Cereal Company* v. *California Fig Nuts Company*, 54 App. D. C. 285, 297 Fed. 544, where it was held by the Commissioner that the marks "Fig-Nuts" and "Grape-Nuts" were not confusingly similar. This court refused to entertain an appeal in that case, on the ground that the Trade-Mark Act of 1920 does not provide for appeals from the decision of the Commissioner. While we are not called upon now to review the Commissioner's decision, it will be noted that the goods on which the marks in that case were used were dissimilar. "Fig-Nuts" is composed of figs and nuts. Besides the marks are much more dissimilar than in the present case.

We think that the present case is in line with the decision of the Commissioner of Patents in *Postum Cereal Company* v. *Hillis*, opposition No. 2,098, where the question involved was the similarity of the marks "Grape-Nuts" and "Bran-Nuts." There, as here, the marks were applied to goods composed largely of a wheat product, and the user of one might readily be confused by the other.

This case is not without difficulty, but applying the rule we have many times announced, that "where there is a doubt about the identity of two marks, the doubt will be resolved against the one last in the field" (*Aunt Jemima Mills Company* v. *Blair Milling Company*, 50 App. D. C. 231) we think the opposition should be sustained.

The decision of the Commissioner is reversed.

Court of Appeals of the District of Columbia.

DOWNS *v.* ANDREWS.

No. 2,044. Decided May 7, 1928.

INTERFERENCE—PRIORITY—REDUCTION TO PRACTICE.

Priority *Held* properly awarded to A. on the ground that the testimony on behalf of D. did not establish the treatment of the materials specified in the counts in the manner specified therein.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. W. B. Morton and *Mr. R. K. Stevens* for Downs.

Mr. B. G. Foster and *Mr. Robert A. Norton* for Andrews.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.*:

Andrews is the senior party, his application having been filed on February 27, 1918. He has taken no testimony, but relies upon his filing date for conception and constructive reduction to practice. Downs's application was filed on July 2, 1919, and a division of it was filed on April 4, 1921. A patent was granted to Downs on August 14, 1923, but the claims of the patent as well as of the divisional application are involved in this interference. The burden rests upon Downs to prove his case by a preponderance of the evidence. Downs relies for his proofs upon testimony taken by him in another case between the same parties, which was made part of the record by order. The controlling question is whether that testimony is sufficient to discharge the burden of proof which rests upon Downs in the present case.

The invention relates to a process of fractional sublimation whereby a mixture of several substances may be vaporized into a flowing current of heated gas and passed through a plurality of cooling zones maintained at successively-decreasing temperatures, in which the vapor condenses to a solid state. That is to say, the process provides that a mixture of vaporizable solid materials shall be melted and the mixture then vaporized into a flowing current of inert gas, such as air, and the vapors then passed into and through a series of cooling and crystallizing compartments in which the vaporized material having the highest boiling point crystallizes in the first compartment, and the substances having lower boiling points severally condense in the succeeding compartments as the gas currents pass successively through the several compartments. The process may be called a fractional sublimation of solids, and is comparable to the fractional distillation of liquids.

The issue in interference is defined in 9 counts, of which counts 1 and 5 are illustrative, reading as follows, to wit:

1. The process which comprises subliming a mixture containing a polynuclear aromatic hydrocarbon and an oxidation product of the same in a hot gas and slowly cooling the mixture in successive stages.

5. A method of separating oxidation products of condensed benzene nuclei hydrocarbon from other materials contained in the oxidation product, which comprises vaporizing into a gas current at a temperature above the melting point of the highest melting ingredient of the mixture a part at least of such mixture, and fractionally condensing into crystals at different locations the ingredients from such gas current in the inverse order of their volatility.

The Examiner of Interferences held that Downs's testimony was sufficient to establish his priority as to claims 5, 6 and 8, but not to any of the other claims. The Examiner accordingly awarded priority to Downs as to claims 5, 6 and 8, and to Andrews as to claims 1, 2, 3, 4, 7 and 9. Cross appeals were taken from this decision, and the Examiners in Chief reversed it in part, and awarded priority to Andrews as to all of the claims in issue. This decision was affirmed by the Commissioner of Patents; and the present appeal was taken.

The decisions of the Examiners in Chief and the Commissioner are both placed upon the ground that Downs's testimony fails to disclose a reduction to practice of the invention in issue, inasmuch as each count contains limitations not disclosed thereby; the tribunals holding that every limitation in a count must be regarded as material. In count 1 the mixture which is to be treated is defined as "mixture containing a polynuclear aromatic hydrocarbon and an oxidation product of the same"; in counts 2 and 3 similar provisions appear; in count 4 specific mention is made of the separation of phthalic anhydride from naphthalene at a temperature of about 200 C.; and similar specifications and limitations appear in the remaining five counts of the issue. The Board of Examiners in Chief and the Commissioner agree that Downs's evidence fails in respect to all of these limitations, while the Examiner of Interferences holds likewise as to six of the nine counts.

It is contended in behalf of Downs that—

all of the conditions and limitations set forth in the claims were either testified to by the witnesses directly as taking place in the plant manufacture and laboratory operations which they described, or are the necessary and inevitable results of performing the process described in the apparatus described.

This contention however was held below to be untenable; and that Downs should have proven his process in the treatment of the specified materials in the specified manner, and that he had failed to do so.

We think that great weight should be given by us to the practically concurring decisions of the Patent Office, and especially so when reviewing the force and effect of testimony relating to a technical issue such as this. We have also examined the evidence and find that the conclusions reached below are justified by it.

The decision of the Commissioner of Patents is accordingly affirmed.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 4, 1928.

[VOL. 374. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 264,038. MOLER PRODUCTS LIMITED, London, England. Filed Mar. 30. 1928.

FOSALSIL

For Raw or Partly-Prepared Vegetable, Animal, and Mineral Substances Used in Manufactures—Namely, Asbestos, Stone, Bitumen, Charcoal, China Clay, Coal, Coal Tar, Coke, Corundum, Uncut Granite, Uncut Limestone, Uncut Marble, Mica, Chrome Ores, Graphite, Infusorial and Like Earth, Including Diatomaceous Earths Containing from 8 to 10% of Alumina, Rendering it Plastic and Binding by Nature, and Raw or Calcined Pulverized Diatomaceous or Infusorial Earth Capable of Being Mixed to form an Insulation Compound.

Claims use since about Apr. 16, 1924.

Ser. No. 265,052. MIDLAND COAL SALES COMPANY, Cincinnati, Ohio. Filed Apr. 18, 1928.

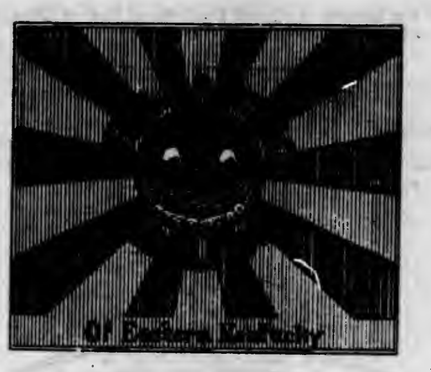


The lining in the drawing indicates shading.

For Coal.

Claims use since January, 1925.

Ser. No. 265,055. MIDLAND COAL SALES COMPANY, Cincinnati, Ohio. Filed Apr. 18, 1928.



The words "Of Eastern Kentucky" are disclaimed apart from the mark as shown in the drawing.

For Coal.

Claims use since January, 1925.

Ser. No. 265,082. AMERICAN NUPLAX CORPORATION, Wilmington, Del. Filed Apr. 19, 1928.

Nuplax

For Nonconductive Plastic Material.

Claims use since Mar. 26, 1928.

Ser. No. 268,837. AMERICAN BROADTAIL CORPORATION, New York, N. Y. Filed June 29, 1928.

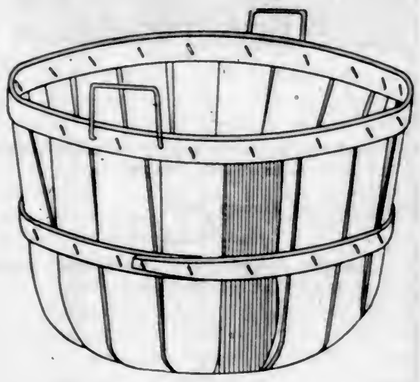


For Sheared or Clipped Lamb Skins, Raw or Dressed.
Claims use since Aug. 23, 1926.

CLASS 2.

Receptacles.

Ser. No. 267,660. THE MARSHALL MANUFACTURING COMPANY, Marshall, Tex. Filed June 7, 1928.

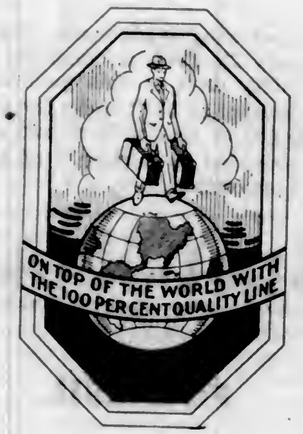


The representation of a basket per se is disclaimed. The mark consists of a red stave in a basket and is applied to each basket by coloring one of the staves thereon red.
For Shipping Baskets.
Claims use since Apr. 5, 1927.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 268,610. THE HORTON & HUBBARD MFG. CO., East Somerville, Mass. Filed June 25, 1928.



Exclusive use of the phrase "100 Per Cent Quality Line" is disclaimed apart from the mark shown in the drawing.
For Suit Cases.
Claims use since May 24, 1927.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 242,100. PAUL PETER MÜLHENS, doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenuber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Dec. 29, 1926.



The ground color of the trade-mark is greenish blue with gold and black. The words appearing in the drawing except the name Ferd. Mülhens is hereby disclaimed.
For Soaps Including Shaving Sticks.
Claims use since March, 1926.

Ser. No. 258,148. THE THORO PRODUCTS COMPANY, Denver, Colo. Filed Nov. 28, 1927.

THORO

Applicant is owner of trade-mark registration No. 150,141.
For Dry Cleaners for Cleaning White Kid, Canvas-Colored Suede or Buckskin Shoes, White Kid, Silk and other Gloves, Kid and Satin Slippers, Silks, Satins, Broadcloths, Woolens, Coat Collars, Hatbands, Fancy Vests, Felt Hats, Feathers, Garters, Carpets, Fine Laces, Furs, etc.
Claims use since Sept. 15, 1916.

Ser. No. 263,297. WILSON-IMPERIAL COMPANY, Newark, N. J. Filed Mar. 16, 1928.

Imperial

For Detergent Compound Especially Prepared for Cleaning Cars.
Claims use since Apr. 10, 1900.

Ser. No. 266,620. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed May 18, 1928. Under 10-year proviso.

רזקח

The translation of the Hebrew word appearing on the drawing is "Rokeach."
For Aluminum Cleanser, Scouring Powder, Steel Wool, and Soap.
Claims use since 1891.

Ser. No. 268,310. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y. Filed June 19, 1928.



For Soap.
Claims use since about 1869.

Ser. No. 268,508. NOCK CHEMICAL LABORATORY, Pittsburgh, Pa. Filed June 22, 1928.

NOCK-O

For Metal-Cleaning Compound.
Claims use since about Dec. 20, 1927.

Ser. No. 268,624. NANNT, INC., Long Island City, N. Y. Filed June 25, 1928.

SAVON NANNT
FOR THE WOMAN
WHO CAN AFFORD A BETTER SOAP

The wording "Savon" and "For the Woman Who Can Afford a Better Soap" is disclaimed apart from the mark shown.
For Soap.
Claims use since Apr. 30, 1928.

Ser. No. 269,072. AMORSKIN CORPORATION, New York, N. Y. Filed July 5, 1928.

AMOR SKIN

No claim is made to the word "Skin" apart from the mark shown.
For Soaps.
Claims use since June, 1927.

Ser. No. 269,363. NORUB COMPANY, Ossining, N. Y. Filed July 10, 1928.



The word "Norub" is disclaimed apart from the mark shown.
For Shaving Powder.
Claims use since Nov. 1, 1927.

CLASS 5.

Adhesives.

Ser. No. 239,826. SAFETY GLASS AND XETAL PRODUCTS, LIMITED, Stapleford, England. Filed Nov. 8, 1926.

XETAL

For Adhesives of India Rubber or India-Rubber Latex and Adhesives of which India Rubber or India-Rubber Latex is the Base.
Claims use since November, 1920.

Ser. No. 270,237. CONGOLEUM-NAIRN, INC., Kearny, N. J. Filed July 27, 1928.

SEALEX

For Cement and Paste for Laying Linoleum.
Claims use since July 16, 1928.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 257,878. HIDEZO KIMURA, Sakagoye Sakagoye-Mura Akogun Hyogoken, Japan. Filed Nov. 21, 1927.



For Magnesium Carbonates.
Claims use since July 8, 1904.

Ser. No. 264,377. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Apr. 5, 1928.



The trade-mark consists in the general border design as shown, with the cross panel near the top of the design for bearing the name of the product, the cross panel substantially at the bottom of the design, and the name "Lilly" enclosed in a narrower panel resting upon such lower panel. The name "Lilly" is printed in red. The design as a whole varies in size and proportion upon the various labels upon which it is used. The upper and lower lines defining the first-named cross panel are double lines, each including one light line and one heavy line, and the vertical side lines of the design are similar double lines, each including one light and one heavy line. The top and bottom of the border are each defined by two spaced horizontal lines, with a series of short vertical lines in the space between said two horizontal lines.

For Various Chemical and Pharmaceutical Products—Namely, Liver Extract, Rubbing Alcohol Compounds, Preparations of Calcium Lactate and Ephedrine Sulphate, Medicinal Mineral Oil, Rectal Analgesia, Lime for Use in Making Lime Water, Combinations of Cod-Liver Oil with Malt and an Extract Rich in B Vitamin, Calcium Carbonate, and Glutamic Acid Hydrochloride.
Claims use since Dec. 9, 1927.

Ser. No. 265,575. SALOL CHEMICAL CO., Chicago, Ill. Filed Apr. 28, 1928.

Klen-a-Sol

For Disinfectant and Cleanser.
Claims use since Sept. 1, 1927.

Ser. No. 266,371. HAIR & SCALP INSTITUTE, INC., Chicago, Ill. Filed May 14, 1928.



All wording contained in drawing and specimens except the letters "H & S" and the word "Vita" constitutes descriptive matter. Claimant disclaims a trade-mark in any of said descriptive wording.

For Granular Effervescent Preparation Consisting of a Combination of All the Mineral Elements of the Body Necessary for the Proper Function or Health of the Skin and Hair.
Claims use since Jan. 1, 1928.

Ser. No. 266,628. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed May 18, 1928.



The portraits shown on the drawing are fanciful. The drawing is lined for shading only. No claim is made to the representation of a carton per se and no claim is made to the printed matter other than the words "Mistol" and "Stanco Incorporated."

For Nose and Throat Spray.
Claims use since Apr. 9, 1928.

Ser. No. 266,793. FRANCIS E. DANIEL, doing business as The Cido Germ Co., Eden, Tex. Filed May 22, 1928.

Cido-Germ

No claim is made to the word "Germ" except in the association shown.

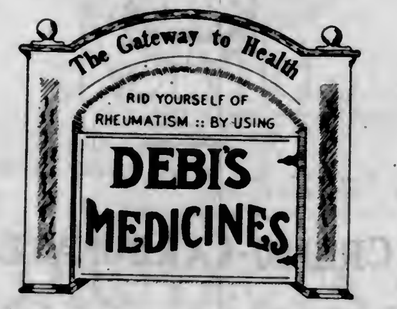
For Healing Antiseptic.
Claims use since Jan. 1, 1924.

Ser. No. 266,979. PIERRE DE LA MONTANYA, doing business as Alta Vista Company, San Francisco, Calif. Filed May 25, 1928.

ALTA VISTA

For Medicinal Tonic Having a Wine Base.
Claims use since May 14, 1928.

Ser. No. 267,125. DEBI AND MCDANIEL, doing business as Joe Debi, Big Spring, Tex. Filed May 28, 1928.



The words "Rid Yourself of Rheumatism by Using" and "Medicines" are disclaimed apart from the other features of the mark shown in the drawing.

For Medical Preparation Used in the Treatment of Rheumatism.
Claims use since about Apr. 1, 1928.

Ser. No. 267,127. ISABEY PARIS, INC., Wilmington, Del., and New York, N. Y. Filed May 28, 1928.

parfums d'Isabey

No claim is made to the word "Parfums" apart from the mark as shown in the drawing. Applicant is the owner of registered Trade-Mark No. 239,915.

For Cold Cream, Vanishing Cream, Rouge, Skin Astringent, and Talcum Powder.
Claims use since Jan. 31, 1924.

Ser. No. 267,128. ISABEY PARIS, INC., Wilmington, Del., and New York, N. Y. Filed May 28, 1928.

parfums d'Isabey

No claim is made to the word "Parfums" apart from the mark, as shown in the drawing. Applicant is the owner of registered Trade-Mark No. 239,915.

For Bath Powder, Compacts, Lip Sticks; Cleansing, Nourishing, Tissue, Bleaching, and Hand Creams; Eau de Cologne, Skin Lotion; Hand, Eye, Hair, and Cleansing Lotions.
Claims use since Jan. 31, 1924.

Ser. No. 267,573. "GETS-IT" INC., Chicago, Ill. Filed June 6, 1928.

GETS-IT



The lining on the outer band of the drawing indicates the color red and the lining on the second band indicates the color green.

For Preparation for Corns, Calli, Warts, Bunions, and for Allaying Inflammation of the Skin.
Claims use since Aug. 4, 1927.

Ser. No. 267,933. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1928.

Antimosan

For Medicinal Preparation in the Form of a Sterile Solution for Intramuscular and Intravenous Injections in cases of Venereal and Tropical Disorders and Febrile Diseases of the Temperate Zones.
Claims use since Feb. 16, 1925.

Ser. No. 268,204. BALFOUR, GUTHRIE & CO., San Francisco, Calif. Filed June 18, 1928.

NICONA

For Insecticides Used as Garden and Orchard Sprays.
Claims use since Mar. 19, 1928.

Ser. No. 268,313. AUGUST W. ROSSOW, doing business as Rossow Research Laboratories, Portland, Oreg. Filed June 19, 1928.

TIS-GON

For Depilatory.
Claims use since Jan. 2, 1928.

Ser. No. 268,458. NU-GAS-EX COMPANY, Hackensack, N. J. Filed June 21, 1928.

Nu-Gas-Ex

For Antacid and Digestant.
Claims use since Feb. 20, 1928.

Ser. No. 268,506. R. H. MACY & CO., INC., New York, N. Y. Filed June 22, 1928.

FLY-D-PART

For Insecticide.
Claims use since May 22, 1928.

Ser. No. 268,554. MICHIGAN ALKALI COMPANY, Wyandotte, Mich. Filed June 23, 1928.



For Calcium Chloride.
Claims use since January, 1928.

Ser. No. 268,634. THE RUMIDOR CORPORATION, Union City, N. J. Filed June 25, 1928.

VINODOR

For Moistening and Flavoring Products Used with Cigars, Cigarettes, and Tobacco.
Claims use since January, 1927.

Ser. No. 268,984. THE INVERTOSE LABORATORIES CO., Minneapolis, Minn. Filed July 2, 1928.

INVERTOSE

For Sclerosing Solution for the Treatment of Varicose Veins.
Claims use since June 30, 1927.

Ser. No. 269,293. PAUL BURKE JACOBS, doing business as Jaynard Cie, New York, N. Y. Filed July 9, 1928.

JAYNARD

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eye Drops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since July 5, 1928.

Ser. No. 269,518. NENA ENGE, doing business as Nena Lax Co., New York, N. Y. Filed July 13, 1928.

U-ME-LAX



For Laxative.
Claims use since June 20, 1928.

Ser. No. 269,542. H. K. MULFORD COMPANY, Philadelphia, Pa. Filed July 12, 1928.

CREMO-CARBONATES

No claim is made to the exclusive use of the word "Carbonates" apart from the mark shown in the drawing.
For Antacid and Corrective for Digestive Disturbances.
Claims use since May 4, 1928.

Ser. No. 269,935. THE BARRETT COMPANY, New York, N. Y. Filed July 21, 1928.

ARCADIAN

For Organic and Inorganic Chemicals—Namely, Sulfate of Ammonia, Nitrate of Soda, Ammonium Chloride, Ammonium Nitrate, Ammonium Phosphate, Calcium Nitrate, and Urea.
Claims use since 1914 as to sulfate of ammonia; June, 1928, as to nitrate of soda, ammonium chloride, ammonium nitrate, ammonium phosphate, calcium nitrate, and urea.

Ser. No. 269,970. H. A. METZ LABORATORIES, INC., New York, N. Y. Filed July 21, 1928.

SPINOCAIN

For Local Anesthetic.
Claims use since May 2, 1928.

Ser. No. 270,007. SAMUEL BONAT & BRO., New York, N. Y. Filed July 23, 1928.

SUNGLOW

For Nail Polish.
Claims use since June 20, 1928.

Ser. No. 270,083. KALI MANUFACTURING CO., Philadelphia, Pa. Filed July 24, 1928.

Kalpinol

For Soluble Phie Oil Used as a Disinfectant and for Cleaning Purposes.
Claims use since January, 1928.

Ser. No. 270,090. WILLIAM C. NEILLY, New York, N. Y. Filed July 24, 1928.

Narvita

For Preparation for Beautifying the Skin and Complexion Used Internally and Externally.
Claims use since July 19, 1928.

Ser. No. 270,107. ELIZABETH ARDEN, INC., New York, N. Y. Filed July 25, 1928.

PROTECTA

For Face Creams and Lotions.
Claims use since June 1, 1928.

Ser. No. 270,125. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed July 25, 1928.

HYDROTAN

For Tanning Compositions.
Claims use since about June 21, 1928.

Ser. No. 270,161. AMERICAN DRUGGISTS SYNDICATE, Long Island City, N. Y. Filed July 26, 1928.

ADSINE

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eye Drops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since July 6, 1928.

Ser. No. 270,179. FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed July 26, 1928.

RENCENTRATE

For Concentrate of the Water-Soluble Constituents of the Fresh Animal Kidney Freed from Connective Tissue, Associated Lipoid and Protein, and Designed for Use in the Treatment of Anemia.
Claims use since June 12, 1928.

Ser. No. 270,240. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed July 27, 1928.

Athenon

For Photographic Developers.
Claims use since February, 1928.

Ser. No. 270,251. KNOX COMPANY, Kansas City, Mo. Filed July 27, 1928.

Adolex

For Medicine to be Taken Internally for the Treatment of Nervousness and as a General Tonic.
Claims use since July 7, 1928.

CLASS 10.

Fertilizers.

Ser. No. 268,594. FORD MOTOR COMPANY, Fordson, Mich. Filed June 25, 1928.

Ford

The applicant is the owner of trade-mark registrations Nos. 74,530, dated July 20, 1909; 74,765, dated August 10, 1909; 115,500, dated February 20, 1917; and 125,702, dated June 3, 1919.
For Ammonium Sulphate Fertilizer.
Claims use since Jan. 1, 1921.

CLASS 12.

Construction Materials.

Ser. No. 262,705. THE DENVER FIRE CLAY COMPANY, Denver, Colo. Filed Mar. 7, 1928.

PLASTOFRAX

For Refractory Fire Brick Material in Plastic Form—Namely, Ground Fire Clay Mixed with Calcined Clay and Water so as to Form a Plastic Fire-Clay Material for Construction Purposes.
Claims use since Apr. 11, 1924.

Ser. No. 264,039. MOLER PRODUCTS LIMITED, London, England. Filed Mar. 30, 1928.

FOSALSIL

For Manufactures from Mineral and Other Substances for Building or Decoration—Namely, Calcined Bricks, Slabs, Partitions, Pipes, Floors for All Constructional Works Used for Insulating Purposes.
Claims use since about Apr. 16, 1924.

Ser. No. 265,069. SCHUMACHER WALL BOARD CORPORATION, Los Angeles, Calif. Filed Apr. 18, 1928.



The words "Against Heat and Cold" are disclaimed apart from the mark as shown.
For Construction Material—Namely, Wall Board, Plaster Board, Lath Board, Building Paper, and Roofing Paper.
Claims use since Mar. 22, 1928.

Ser. No. 267,325. STRUCTURAL GYPSUM CORPORATION, Linden, N. J. Filed June 1, 1928.



The representation of the goods shown in the drawing is disclaimed.
For Materials for Use in Partition Blocks or Tile, Floor, Roof, and Ceiling Blocks or Slabs, Plaster Board, and Wall Board.
Claims use since Apr. 19, 1928.

Ser. No. 268,299. MINERAL-LAC PAINT CO., INC., Philadelphia, Pa. Filed June 19, 1928.



Applicant disclaims the notation "Stop-A-Leak" apart from the mark shown in the drawing.
For Plastic Roof Coating.
Claims use since Oct. 25, 1927.

Ser. No. 268,418. BRADLEY LUMBER COMPANY OF ARKANSAS, Warren, Ark. Filed June 21, 1928.



No claim is made to the word "Brand" appearing on the drawing apart from the mark shown.
For Hardwood Flooring and Trim.
Claims use since 1919.

Ser. No. 269,112. GILMORE OIL COMPANY, Los Angeles, Calif. Filed July 5, 1928.

ROOFAMITE

For Asphalt, Asphaltic Binder, Asphalt Cement, Roofing Asphalt, Bitumen, Emulsified Asphalt.
Claims use since May 18, 1928.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 267,048. INTERSTATE RUBBER COMPANY, New York, N. Y. Filed May 26, 1928.



The words "Medico-Filtered" are not claimed apart from the other features of the mark as shown in the drawing.
For Spray Devices comprising Rubber Tubing and Attachments Designed to be Applied to Spigots and Faucets.
Claims use since Apr. 1, 1928.

Ser. No. 267,310. MCKINNEY MANUFACTURING COMPANY, Pittsburgh, Pa. Filed June 1, 1928. Under 10-year proviso.

McKINNEY

For Hinges, Hinge Straps, Corner Irons, Shelf Brackets, Door Hangers, Entrance-Door Handles, Door Pulls, Push Buttons, Push Plates, Drop Rings, Door Knobs, Lever Handles, Door Knockers, Cabinet Knobs, Shutter Straps, Shutter Dogs, Foot Scrapers, Trolley-Track Garage-Door Sets, Flat-Track Garage-Door Sets, Garage-Door Hinge Sets, and Garage-Door Holders.
Claims use since on or about Jan. 1, 1873.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 261,194. THE INTERNATIONAL NICKEL COMPANY, New York, N. Y. Filed Feb. 4, 1928.

ELECTRO SQUARES

The word "Squares" is disclaimed apart from the mark shown.
For Pieces of Nickel.
Claims use since Jan. 19, 1928

Ser. No. 268,569. WM. J. SWEET FOUNDRY CO., Irvington, (Newark), N. J. Filed June 23, 1928.

SWEETALOY

For Ferrous and Nonferrous Metal Alloys and Castings.
Claims use since about October, 1926.

CLASS 15.

Oils and Greases.

Ser. No. 254,413. MIDWAY CHEMICAL COMPANY, Chicago, Ill. Filed Sept. 8, 1927.



For Machine Oil Packed in Small Containers for Household Use.
Claims use since Aug. 14, 1926.

Ser. No. 254,874. THE TRINIDAD LAKE PETROLEUM COMPANY, LIMITED, Brighton, Trinidad, British West Indies, assignor to The Trinidad Lake Asphalt Operating Company, Limited, Brighton, Trinidad, British West Indies, a Corporation of Trinidad, British West Indies. Filed Sept. 17, 1927.

TRINPETRO

For Road Oil.
Claims use since about January, 1923.

Ser. No. 259,444. HERCULES OIL CO., Cleveland, Ohio. Filed Dec. 29, 1927.



For Motor Fuel Oils.
Claims use since on or about Nov. 15, 1923.

Ser. No. 260,359. SIMON OIL COMPANY, INC., Niagara Falls, N. Y. Filed Jan. 19, 1928.



No claim is made to the word "Gasoline" apart from the mark shown in the drawing.

For Gasoline, Kerosene, Distillate Furnace and Lubricating Oils.

Claims use since June 1, 1927.

Ser. No. 264,188. THE PATAPSCO OIL & GREASE CO., Baltimore, Md. Filed Apr. 2, 1928.



For Lubricating Oils and Greases.

Claims use since Jan. 1, 1928.

Ser. No. 269,124. LUBRITE REFINING COMPANY, St. Louis, Mo. Filed July 5, 1928.

Sky-Hy

For Gasoline.

Claims use since June 29, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 260,786. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Jan. 28, 1928.

PERMATITE

For Wood-Finishing Solution in the Nature of a Filler and Sealer.

Claims use since Mar. 1, 1926.

Ser. No. 263,871. GENERAL COLOR PRODUCTS CO., Chicago, Ill. Filed Mar. 28, 1928.



For Ceramic Enamels, Ceramic Colors, and Ceramic Coatings for Use on Ceramic Materials Such as Glass, Pottery, Metals, Etc.

Claims use since January, 1928.

Ser. No. 267,389. RED SPOT PAINT & VARNISH CO., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Filed June 2, 1928.



The drawing is lined to indicate the color red.

For Dry and Ready-Mixed Paints, Fillers for Wood, Paint and Varnish Remover, Prepared Shellacs, Thinners (Paint and Varnish), Primers, Bronze Enamels, Structural Paint, Graphite Paint (Liquid), Barn Paint, Auto Finish, Paint Enamel, Brushing Lacquers, Enamels (Paint), Distemper Colors (Paint); Wax Polish for Floors, Furniture, and Automobiles; Sienna Paint Pigments, Oil Stains; Stack, Boiler, and Breeching Paint; Bituminous Paint Enamel, Oil Colors, Japan Colors, Show-Card Colors, Acidproof Battery Paint, Varnishes, Tire Paint, Leads (Blue), Heatproof Paint Enamels, White Lead, Putty, Kalsomine, Stucco and Cement Coater, Glass Frosting—Namely, Clear Varnish Containing a Paint Pigment, and Wood Dyes.

Claims use since June 1, 1912.

Ser. No. 269,665. WILLIAM R. KNOTT, Rochester, N. Y. Filed July 16, 1928.

ALUSIL

For Silver Paint Preparation.

Claims use since June 25, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 252,471. JOHN COTTON LIMITED, Edinburgh, Scotland. Filed July 23, 1927. Under 10-year proviso.



JOHN COTTON'S

Finest

SMOKING TOBACCO

No. [ ]

MANUFACTURED BY EDINBURGH, SCOTLAND

For Smoking Tobacco.

Claims use since Aug. 18, 1870.

Ser. No. 266,050. THE SAVARINS, INC., New York, N. Y. Filed May 7, 1928.



For Cigars and Cigarettes.

Claims use since July 1, 1927.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 269,222. THE BUCKEYE STEEL CASTINGS COMPANY, Columbus, Ohio. Filed July 7, 1928.

QWC

For Railway-Truck Bolsters, Truck Side Frames, and Spring Planks.

Claims use since July 8, 1926.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 259,893. BON A FIDE PRODUCTS CORPORATION, New York and Brooklyn, N. Y. Filed Jan. 10, 1928.



Petitioner disclaims ownership of or application for the descriptive matter "Bon-A-Fide" in the said mark.

For Linoleum and Oilcloth Floor Covering and Felt-Base Floor Covering.

Claims use since Jan. 1, 1928.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 245,942. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Mar. 17, 1927.

Rectox

For Contact Rectifiers for Changing Alternating Electric Current to Direct Current.

Claims use since Dec. 30, 1926.

Ser. No. 256,590. TWIN COUPLER COMPANY, INC., Poughkeepsie, N. Y. Filed Oct. 25, 1927.

TWIN COUPLER

The expression "Twin Coupler" is disclaimed apart from the mark shown in the drawing.

For Radio Reception Elements—Namely, Inductances Including Loose Couplers, Variable Inductances, Solenoid Coils, Basket-Weave Coils, Pancake Coils, Space-Wound Coils, Double Coils, Short-Wave Kits Comprising Unassembled Parts of Radio Receiving Sets, Insulating Tubes for Winding Coil Elements, Assembled Detector and Amplifying Units, and Panels and Subpanels.

Claims use since Aug. 24, 1927.

Ser. No. 256,591. TWIN COUPLER COMPANY, INC., Poughkeepsie, N. Y. Filed Oct. 25, 1927.

VIKING

For Radio Receiving Sets and Parts Thereof, Particularly Radio Inductance Units, Radio Frequency Subpanels and Kits Including Unassembled Elements Forming a Radio Receiving Set.

Claims use since July 29, 1927.

Ser. No. 256,929. GRAY AND MURDOCK MFG. CO., Salt Lake City, Utah. Filed Nov. 2, 1927.

ELECTRO-MATIC

For Electric Stokers.

Claims use since July 1, 1927.

Ser. No. 261,374. MICO-PRODUCTS, INC., Ampere-Newark, N. J. Filed Feb. 8, 1928.

"TRAV-E-LITE"

For Electric Switches, Signals, and Solenoids Used on Light Signals for Attachment to Vehicles for Indicating Changes of Direction Thereof.

Claims use since about Jan. 8, 1928.

Ser. No. 262,967. LANDERS, FRARY & CLARK, New Britain, Conn. Filed Mar. 10, 1928.

UNIVAC

For Electrically-Driven Vacuum Cleaners.

Claims use since Feb. 25, 1928.

Ser. No. 265,340. MUELLER ELECTRIC COMPANY, Cleveland, Ohio. Filed Apr. 24, 1928.

24-A

For Connection Clips.

Claims use since July 8, 1918.

Ser. No. 266,879. PER-CON MANUFACTURING COMPANY, Richmond, Ind. Filed May 23, 1928.

Per-Con PERFECT CONTACT

No claim is made to the words "Perfect Contact" apart from the mark shown in the drawing.

For Radio Accessories—Namely, Ground Rods, Antenna, and Antenna Poles.

Claims use since Dec. 1, 1927.

Ser. No. 267,335. JOHN A. BARTKUS, doing business as B & J Electrical and Radio Engineering Laboratories, Chicago, Ill. Filed June 2, 1928.

RADIO ENGINEERING B&J LABORATORIES

For Radio Panels for Radio Receiving Sets.

Claims use since Nov. 1, 1927.

Ser. No. 267,625. THE AIR-CHROME STUDIOS, INC., Irvington, N. J. Filed June 7, 1928.

THE AIR-CHROME SPEAKER

No claim is made to the words "The" nor "Speaker" apart from the mark shown.

For Radio Loud Speakers.

Claims use since May 16, 1928.

Ser. No. 267,834. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed June 11, 1928.



The trade-mark consists of the characteristic arrangement of contrasting colors woven in the fabric covering of a conductor cable, the ground color of the fabric being black and having woven therein two strands of red immediately adjacent each other at either side of which red strands and immediately adjacent thereto two strands of yellow or gold are disposed, the whole forming upon the black ground of the cable a spiral of red and yellow or gold dots arranged as described. The drawing is lined to show the said colors, no claim being made to the representation of a section of conductor cable.

For Portable Electric Appliances Consisting of Electric Flatirons, Toaster Stoves, Grills, Heating Pads for General Purposes, and Conductor Cables.

Claims use since December, 1924.

Ser. No. 268,333. THE ACME WIRE COMPANY, New Haven, Conn. Filed June 20, 1928.

PUSHBAK

For Radio Hook-Up Wire.

Claims use since May 9, 1928.

Ser. No. 268,654. UNIVERSAL ELECTRIC LAMP CO., Newark, N. J. Filed June 25, 1928.



No claim is made to the words "Radio Tube" and "$" apart from the mark shown on the drawing. The lining on the drawing represents the color green.

For Radio Electron Tubes.

Claims use since 1925.

Ser. No. 268,655. UNIVERSAL ELECTRIC LAMP CO., Newark, N. J. Filed June 25, 1928.



No claim is made to the words "Radio Tube" apart from the mark shown in the drawing. The lining on drawing represents the color blue.

For Radio Electron Tubes.

Claims use since 1924.

Ser. No. 268,755. TEMPLE, INC., Chicago, Ill. Filed June 27, 1928.

TEMPLE

For Loud Speakers and Parts Thereof for Use in Connection with Radio Receiving Sets.

Claims use since July 5, 1925.

Ser. No. 268,905. AUTOMATIC SIGNAL CORPORATION, New Haven, Conn. Filed June 30, 1928.

ELECTRO-MATIC

For Automatic Electric Traffic-Control Systems.

Claims use since May 23, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 261,077. MARION D. SHAKESHAFT, doing business as St. Nick's Toy Company, Topeka, Kans. Filed Feb. 2, 1928.

JOY-JUMPER

The descriptive word "Jumper" is disclaimed apart from the mark shown on the drawing.

For Children's Jumping or Seesaw Amusement Device.

Claims use since Nov. 1, 1927.

Ser. No. 267,728. SHAKESPEARE COMPANY, Kalamazoo, Mich. Filed June 8, 1928.



Applicant disclaims the representation of the goods. The mark consists of a red strand or thread embodied in the core of the fishing line.
For Fishing Lines.
Claims use since about Aug. 1, 1927.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 247,782. DAVIS & THOMPSON COMPANY, West Allis, Wis. Filed Apr. 21, 1927.

DAVIS ROTOMATIC

No claim is made to the word "Davis" except in the combination as shown.
For Continuous Rotary Metal-Drilling Machines.
Claims use since Oct. 20, 1923.

Ser. No. 259,226. JOSEPH R. TORREY and BELLE M. TORREY, doing business as J. R. Torrey & Company, administrators under the will of Lewis H. Torrey, Worcester, Mass. Filed Dec. 21, 1927.

Sharpenizer

For Blade Holders and Mechanical Stropping Devices for Safety-Razor Blades.
Claims use since Sept. 1, 1927.

Ser. No. 264,247. MESTA MACHINE COMPANY, West Homestead and Pittsburgh, Pa. Filed Apr. 3, 1928.



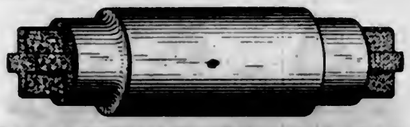
The representation of the roll shown in the drawing is disclaimed. The mark consists in painting the wabblers of the roll white in contrast to the body of the roll as indicated in accompanying drawing.
For Rolling-Mill Rolls.
Claims use since Jan. 28, 1928.

Ser. No. 264,248. MESTA MACHINE COMPANY, West Homestead and Pittsburgh, Pa. Filed Apr. 3, 1928.



The mark comprises the color blue applied to the wabblers of the roll as indicated by the lining shown in the drawing. The representation of the roll shown in the drawing is disclaimed.
For Rolling-Mill Rolls.
Claims use since Oct. 10, 1927.

Ser. No. 264,249. MESTA MACHINE COMPANY, West Homestead and Pittsburgh, Pa. Filed Apr. 3, 1928.



The representation of the roll shown in drawing is disclaimed. The mark consists in painting the wabblers of the roll orange as indicated by the lining shown in the drawing.
For Rolling-Mill Rolls.
Claims use since Dec. 30, 1927.

Ser. No. 264,793. BOHN ALUMINUM & BRASS CORPORATION, Detroit, Mich. Filed Apr. 14, 1928.

RING TRUE
BOHN
BEARINGS

Applicant claims certificates of registration No. 114,064, issued Nov. 21, 1916, and No. 114,880, issued July 25, 1928. No registration rights are claimed for the word "Bearings" apart from the rest of the mark.
For Bearings for Machinery.
Claims use since Jan. 3, 1928.

Ser. No. 268,045. SOUTHGATE L. LOHMAN, doing business as The Cyano-Art Co., Norfolk, Va. Filed June 14, 1928.

Cyano-Art

The word "Art" is disclaimed apart from the mark shown.
For Blue-Printing Apparatus.
Claims use since Oct. 1, 1927.

Ser. No. 269,006. THE TOBRIN TOOL COMPANY, Plantsville, Southington, Conn. Filed July 2, 1928.



The dotted outline of a screw-driver blade and the figure "4" is disclaimed as parts of the mark.
For Screw Drivers.
Claims use since Sept. 15, 1923.

Ser. No. 269,221. BOSTON GEAR WORKS, INC., Norfolk Downs (Quincy), Mass. Filed July 7, 1928.

PYRAMID

For Gears and Pinions.
Claims use since Dec. 9, 1926.

Ser. No. 269,305. MISSOURI AGRICULTURAL PUBLISHING COMPANY, St. Louis, Mo. Filed July 9, 1928.

PERMARK

For Tattooing Device for Marking Poultry and Other Live Stock with Indelible Ink.
Claims use since June 1, 1928.

Ser. No. 270,009. ISAAC BRAITHWAITE & SON, Engineers, Limited, Kendal, England. Filed July 23, 1928.

IBIS.

For Sewing Machines, Felling Machines, Dyeing Machinery, Bleaching and Scouring Machines, Vats, Troughs, and Tanks Equipped with Crutchers or Other Machinery and Tressels Built into Any of the Aforesaid Machinery.
Claims use since January 20, 1896.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 269,459. OLIVER P. GREENSTREET, doing business as American Device Mfg. Company, Owensville, Mo. Filed July 12, 1928.

Vacu-Clean Washer

The words "Washer" and "Clean" are not claimed apart from the other features of the mark.
For Laundry Washing Machines.
Claims use since May 8, 1928.

CLASS 25.

Locks and Safes.

Ser. No. 268,596. FORD MOTOR COMPANY, Fordson, Mich. Filed June 25, 1928.

Ford

The applicant is the owner of trade-mark registrations Nos. 74,530, dated July 20, 1909; 74,765, dated August 10, 1909; 115,500, dated February 20, 1917; and 125,702, dated June 3, 1919.
For Locks, Ignition Switch Locks, and Keys.
Claims use since Jan. 6, 1913.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 261,094. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Feb. 3, 1928.

CRAFTSMAN CAMERA

Exclusive use of the word "Camera" is disclaimed.
For Photographic Cameras.
Claims use since 1924.

CLASS 27.

Horological Instruments.

Ser. No. 269,014. EMIL BORNSTEIN INC., New York, N. Y. Filed July 3, 1928.

CHATEAU
CADILLAC

For Watches.
Claims use since June 1, 1928.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 258,707. J. R. WOOD & SONS, New York, N. Y. Filed Dec. 9, 1927.

FLOWER OF LOVE

For Finger Rings.
Claims use since Nov. 22, 1927.

Ser. No. 265,296. S. M. & H. COMPANY, New York, N. Y. Filed Apr. 23, 1928.



For Finger Rings, Ornamental Pins, and Other Kinds of Jewelry for Personal Wear, Not Including Watches.
Claims use since Mar. 1, 1928.

Ser. No. 266,485. SAMUEL SCHNELLING, Chicago, Ill. Filed May 16, 1928.

S.r.S

For Finger Rings, Bracelets, Broaches, Sautoirs, and Platinum Shells or Cases Set with Jewels for Personal Wear, but Not Including Watch Movements or Cases.
Claims use since Mar. 27, 1927.

Ser. No. 268,883. BERNARD RICE'S SONS, INC., New York, N. Y. Filed June 29, 1928.

SHADOW ARDT

For Silver Hollow Ware.
Claims use since on or about June 21, 1928.

Ser. No. 269,042. THETA TAU FRATERNITY, Urbana, Ill. Filed July 3, 1928.

ΘT

For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since 1905.

Ser. No. 269,318. ROSENHEIM CO., INC., Providence, R. I. Filed July 9, 1928.

DURAWHITE

For Bracelets.
Claims use since Jan. 20, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 246,497. THE OWENS STAPLE-TIED BRUSH COMPANY, Toledo, Ohio. Filed Mar. 28, 1927.

Stapletied

For Toothbrushes.
Claims use since about Feb. 23, 1923.

CLASS 31.

Filters and Refrigerators.

Ser. No. 267,879. WAYNE COMPANY, Fort Wayne, Ind., assignor to The Wayne Home Equipment Company, Baltimore, Md., a Corporation of Maryland. Filed June 11, 1928. Under section 5b of the act of 1905 as amended in 1920.

Wayne

For Refrigeration Apparatus.
Claims use since May 21, 1927.

CLASS 32.

Furniture and Upholstery.

Ser. No. 254,963. FARLEY & LOETSCHER MFG. CO., Dubuque, Iowa. Filed Sept. 20, 1927.



For Standardized Knockdown Cabinet, Drawer, Table, Cupboard, and Shelf Units Used for Built-In Kitchen Furniture.
Claims use since Aug. 20, 1927.

Ser. No. 260,733. THE KALAMAZOO SLED COMPANY, Kalamazoo, Mich. Filed Jan. 27, 1928.



No claim is made to the words "Superior" and "Quality" apart from the mark as shown.
For Lawn Furniture—Namely, Chairs, Settees, Tables, and Swings.
Claims use since about Jan. 1, 1900.

Ser. No. 267,154. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Household Furniture—Namely, Stands, Hand Mirrors, and Shaving Mirrors, Tea Tables and Tea Wagons, Book Ends, Cases and Chests for Holding and Protecting Jewelry and Precious-Metal Ware, Serving Trays of Wood and Glass.
Claims use since 1900.

CLASS 33.

Glassware.

Ser. No. 257,124. SKINNER-HILL CO., INC., New York, N. Y. Filed Nov. 5, 1927.



For Glassware and Decorative Glassware.
Claims use since Dec. 1, 1926.

Ser. No. 265,549. KOJI KONISHI, Tokyo, Japan. Filed Apr. 28, 1928.



For Glass for Timepieces.
Claims use since 1921.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 265,011. G. A. PETERSON, doing business as Peterson "Freezem" Sales Co., Oklahoma City, Okla. Filed Apr. 17, 1928.

"FREEZEM"

For Air-Blast Ventilating Units Consisting of Fan Blower and Ducts.
Claims use since about June 29, 1927.

Ser. No. 266,282. STURDY MANUFACTURING CO., Elkhart, Ind. Filed May 11, 1928.

Sturdy

For Warm-Air Registers, Cold-Air Gratings, and Ventilating Grilles.
Claims use since June 1, 1926.

Ser. No. 267,219. THE SURFACE COMBUSTION COMPANY, INC., Toledo, Ohio. Filed May 29, 1928.

SC

For Gas and Oil Industrial Furnaces and Parts Therefor—Namely, Gas and Oil Burning Equipment, and for Gas and Oil Burning Apparatus Adapted for Use with House-Heating Furnaces.
Claims use since April, 1928.

Ser. No. 267,878. WAYNE COMPANY, Fort Wayne, Ind. Filed June 11, 1928. Under section 5b of the act of 1905, as amended in 1920.

Wayne

For Oil-Burning Apparatus for Domestic and Industrial Use.
Claims use since June 15, 1920.

Ser. No. 268,107. MIDWEST STEEL & SUPPLY COMPANY, INC., New York, N. Y., and Bradford, Pa. Filed June 15, 1928.

MIDWEST

For Humidifying Machines and Devices and Humidifying Systems for Heating, Ventilating, or Air Conditioning, and Parts Thereof.
Claims use since 1924.

Ser. No. 268,993. THE MEYER FURNACE COMPANY, Peoria, Ill. Filed July 2, 1928.

MID-WEST

For Furnaces of the Gas, Oil, and Coal Burning Types.
Claims use since about Jan. 1, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 263,889. PLAZA MUSIC COMPANY, New York, N. Y. Filed Mar. 28, 1928.

VERIBEST

The word "Veribest" is disclaimed apart from the mark shown in the drawing.
For Phonograph Apparatus for Recording and Reproducing Sounds—Namely, Sound-Recording Machines and Reproducing Phonographs, Automatic Musical Instruments of the Character Known as Multiple Playing Phonographs; Parts for Such Phonographs, Recording Machines, and Automatic Musical Instruments; Also the Following Accessories Therefor—Namely, Needles, Mechanical Phonograph Motors, Reproducers, Recorders, Diaphragms, Needle Cups, Horns, and Tone Arms; Phonograph Records, Both Recording and Reproducing; Envelopes and Albums.
Claims use since about Sept. 5, 1927.

Ser. No. 264,419. CHIPMAN & COMPANY, INC., New York, N. Y. Filed Apr. 6, 1928.

Nirvana

For Pianos, Player Pianos, and Phonographs.
Claims use since Mar. 15, 1921.

CLASS 37.

Paper and Stationery.

Ser. No. 230,670. J. P. HEILBRONN CO., Manila, P. I. Filed Apr. 24, 1926.

LUNA

For Bond Writing Paper, Stationery Pads, Paper Clips, and Composition Books.
Claims use since July 1, 1910.

Ser. No. 264,968. CHAPIN & GOULD PAPER COMPANY, Springfield, Mass. Filed Apr. 17, 1928. Under 10-year proviso.

GOLD BOND

For Bond Paper.
Claims use since 1890.

Ser. No. 267,351. CHARLES S. CLARK CO., New York, N. Y. Filed June 2, 1928.

The HOSTESS

For Bridge Score Pads, Place Cards, and Bridge Tallies.
Claims use since Feb. 1, 1928.

Ser. No. 269,178. BECKER, SMITH & PAGE, INCORPORATED, Philadelphia, Pa. Filed July 6, 1928.

Resist-o-lite

For Wall Paper.
Claims use since June 29, 1928.

Ser. No. 269,379. WHITING-PLOVER PAPER COMPANY, Plover, Wis. Filed July 10, 1928.

Major

For Writing and Printing Papers.
Claims use since Oct. 24, 1921.

Ser. No. 269,596. THE NATIONAL BANK SUPPLY CO., Milwaukee, Wis. Filed July 14, 1928.



For Loose-Leaf Binders and Papers Therefor, Printing, Ruling, Binding, and Writing Papers, File Wrappers, and Index Cards.
Claims use since Jan. 2, 1927.

Ser. No. 269,634. CAREW MANUFACTURING COMPANY, South Hadley, Mass. Filed July 16, 1928.

AIRWAY BOND

No registration rights are claimed in the word "Bond" except in association with the other features of the mark.
For Bond Paper.
Claims use since June 28, 1928.

Ser. No. 269,651. FRED RENTZ PAPER COMPANY, Chicago, Ill. Filed July 16, 1928.

Leader

For Greaseproof and Waterproof Wrapping Paper.
Claims use since June 29, 1928.

Ser. No. 269,710. BERTRAM BLAKE PAPER CO. INC., New York, N. Y. Filed July 17, 1928.

HORIZON TINTS

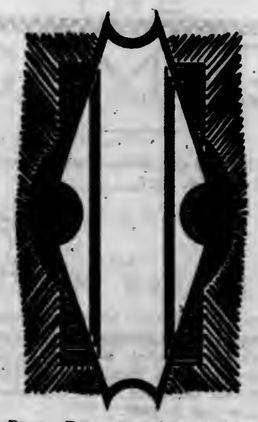
No claim is made to the exclusive use of the word "Tints" apart from the mark as shown in the drawing.
For Book Paper.
Claims use since March, 1928.

Ser. No. 269,752. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed July 17, 1928.

RED RAY

For Toilet Paper, Paper Towels, and Paper Napkins.
Claims use since Apr. 12, 1928.

Ser. No. 269,753. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed July 17, 1928.



For Toilet Paper, Paper Towels, and Paper Napkins.
Claim use since about 1900.

Ser. No. 269,814. THE ZANESVILLE PAPER CO., Zanesville, Ohio. Filed July 18, 1928.

SERV-U-WEL

For Toilet Paper.
Claims use since Nov. 1, 1927.

CLASS 38.

Prints and Publications.

Ser. No. 245,228. S & W THRIFT CORPORATION, San Francisco, Calif. Filed Mar. 4, 1927.



For Redeemable Trading Certificates.
Claims use since January, 1927.

Ser. No. 257,406. GLENN ELLIOTT, doing business as U. S. Volunteer Air Service, New York, N. Y. Filed Nov. 11, 1927.



For Aviation Books.
Claims use since Oct. 1, 1927.

Ser. No. 258,067. THE CHI OMEGA FRATERNITY, Cincinnati, Ohio. Filed Nov. 26, 1927.



For Charters, Alluminated Mottoes, Etchings, Photographs of Members of the Branch Chapters or Officers or Groups, Certificates, Printed Membership Cards, Pamphlets, Printed Literature Published at Different Times Sold to the Different Branches of the Organization.
Claims use since Apr. 5, 1895.

Ser. No. 266,143. L. A. MILLER LABEL CO., San Francisco, Calif. Filed May 9, 1928.



Applicant disclaims the words "Imprint of Service" and "Label" apart from the mark shown on the drawing.
For Printed Labels, Tags, and Advertising Display Cards.
Claims use since Feb. 20, 1928.

Ser. No. 267,499. LOOSELEAF EDUCATION, INC., Columbus, Ohio. Filed June 5, 1928.

MY PROGRESS BOOK

For Series of Text Books.
Claims use since Sept. 26, 1927.

Ser. No. 267,657. THE IRVING-CLOUD PUBLISHING CO., Chicago, Ill. Filed June 7, 1928.

Motor Maintenance Data Book and Flat-Rate Manual

For Annual Publication.
Claims use since on or about Jan. 5, 1928.

Ser. No. 268,245. FRANKLIN PINKHAM, New York, N. Y. Filed June 18, 1928.

The Social Spectator

For Weekly Magazine.
Claims use since June 9, 1928.

Ser. No. 268,507. NATIONAL TRADE JOURNALS, INC., New York, N. Y. Filed June 22, 1928.



No claim is made to the exclusive use of the words "Economy" or "Conservation." The lining is for the purpose of shading.
For Section of a Monthly Publication.
Claims use since June 7, 1928.

Ser. No. 268,884. FREDERICK D. RICH, New York, N. Y. Filed June 29, 1928.

PERTINAX

For Periodical Fashion Publications.
Claims use since Apr. 4, 1928.

Ser. No. 268,979. FIELD AND STREAM PUBLISHING COMPANY, New York, N. Y. Filed July 2, 1928.

Field & Stream

No claim is made for the color red as indicated by the drawing.
For Monthly Magazine.
Claims use since May 5, 1895.

Ser. No. 269,094. HYMAN SETTEL, doing business as The Credit Stores Magazine Publishing Co., New York, N. Y. Filed July 5, 1928.

The CREDIT STORES Magazine

For Periodical.
Claims use since June 28, 1928.

Ser. No. 269,487. SIMMONS-BOARDMAN PUBLISHING CO., New York, N. Y. Filed July 12, 1928.

Railway Age

For Periodical.
Claims use since 1876.

Ser. No. 269,630. HARRY J. BOSWORTH COMPANY, Chicago, Ill. Filed July 16, 1928.

DENTAL ECONOMICS

For Serial Publications.
Claims use since May 15, 1926.

Ser. No. 269,673. MACINTYRE & SIMPSON, Chicago, Ill. Filed July 16, 1928.

The Modern Office

For Magazines.
Claims use since June, 1927.

Ser. No. 269,799. FREDERICK C. RUSSELL, West Hartford, Conn. Filed July 18, 1928.

JOHN SMITH and HIS CAR

For Heading for Newspaper Articles.
Claims use since Mar. 1, 1922.

Ser. No. 269,901. MACFADDEN PUBLICATIONS INCORPORATED, New York, N. Y. Filed July 20, 1928.

FLYING STORIES

For Monthly Magazine.
Claims use since July 12, 1928.

Ser. No. 270,063. CHARLES K. VAN RIPER, Monterey, Calif. Filed July 23, 1928.

THE FRONT PAGE

For Periodicals.
Claims use on or about June 1, 1928.

Ser. No. 270,092. OXFORD UNIVERSITY PRESS, AMERICAN BRANCH, New York, N. Y. Filed July 24, 1928.

THE GAMUT

For Monthly Musical Periodical.
Claims use since June 25, 1928.

Ser. No. 270,109. BROWN & BIGELOW, St. Paul, Minn. Filed July 25, 1928.

THE MODERN LAUNDRES

For Periodical Particularly Adapted to Laundries Published from Time to Time.
Claims use since on or about Apr. 1, 1928.

Ser. No. 270,111. BROWN & BIGELOW, St. Paul, Minn. Filed July 25, 1928.

Home Sweet Home

For Periodical Particularly Adapted to Real Estate Companies Published from Time to Time.
Claims use since on or about Apr. 1, 1928.

Ser. No. 270,112. BROWN & BIGELOW, St. Paul, Minn. Filed July 25, 1928.

FORGING AHEAD

For Periodical Particularly Adapted to Banks Published from Time to Time.
Claims use since on or about Apr. 1, 1928.

CLASS 39.

Clothing.

Ser. No. 226,824. REICHEL BROS., New York, N. Y. Filed Feb. 3, 1926.



For Men's and Children's Hats and Caps.
Claims use since about Jan. 15, 1926.

Ser. No. 251,498. THE GLOBE CLOTHIERS, Tulsa, Okla. Filed July 5, 1927.

GLOBE

No claim is made to the exclusive use of the word "Globe" apart from the mark as shown in the drawing.
For Neckties.
Claims use since about June 1, 1917.

Ser. No. 252,314. CHRYSLER SALES CORPORATION, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 20, 1927.

CHRYSLER

For Overall Jumpers.
Claims use since June 1, 1927.

Ser. No. 252,775. E. H. HORWOOD & CO., Hoboken, N. J., and New York, N. Y. Filed July 30, 1927.

"LITTLE BEAUTY"

For Combinations, That is, Garments Consisting of an Underwaist and Drawers in One Piece or Attached Together Into One Piece Made of Textile Fabrics and for Use by Girls and Women.
Claims use since about July 23, 1924.

Ser. No. 256,949. A. LUBASCH & SONS, INC., New York, N. Y. Filed Nov. 2, 1927.

DR. ELLIOT HEALTH UNDERWEAR GUARANTEED

The descriptive words "Health Underwear Guaranteed" are disclaimed separate and apart from the mark as shown in the drawing.
For Men's and Boys' Textile and Knitted Underwear, Undershirts, Drawers, and Hosiery.
Claims use since about Aug. 1, 1927.

Ser. No. 261,635. JOE-ANN TOGS, INCORPORATED, Cleveland, Ohio. Filed Feb. 13, 1928.

Joe—Ann

For Women's and Girls' Dresses.
Claims use since on or about Jan. 2, 1925.

Ser. No. 262,914. ADOLF & NORBERT KRAMER, Chemnitz, Germany. Filed Mar. 10, 1928.

For Hosiery.
Claims use since Jan. 2, 1913.

Ser. No. 264,140. BROWN-DUNKIN DRY GOODS COMPANY, Tulsa, Okla. Filed Apr. 2, 1928.

Charlotte Jane Jr.

For Junior Dresses for Children.
Claims use since September, 1924.

Ser. No. 264,507. DAY'S TAILOR-D WEAR, INC., Tacoma, Wash. Filed Apr. 7, 1928.

Day's TAILOR-D WEAR

No claim is made to the term "Tailor-D Wear" apart from the mark as shown.
For Trousers, Suits, Knickers, Breeches for Men and Boys.
Claims use since Jan. 1, 1928.

Ser. No. 264,596. MILFORD SHOE COMPANY, Milford, Mass. Filed Apr. 9, 1928.

RESTER

For Shoes of Leather.
Claims use since about Jan. 1, 1905.

Ser. No. 265,035. CONSUMERS HAT FACTORY, INC., Chicago, Ill. Filed Apr. 18, 1928.

Consumers

For Ladies', Girls', and Children's Hats.
Claims use since on or about Feb. 25, 1928.

Ser. No. 265,050. MCCREERY MANUFACTURING CO., Portland, Oreg. Filed Apr. 18, 1928.

BOB-BEE MAID

For Clothing—Namely, Knitted Rayon Underwear for Women.
Claims use since Mar. 17, 1928.

Ser. No. 265,452. ROSS BROS., New York, N. Y. Filed Apr. 26, 1928.

Brookfield

For Men's, Boys', and Young Men's Topcoats, Overcoats, Sport Coats, and Suits Consisting of Coats, Vests, Pants, and Knickerbockers.
Claims use since Apr. 1, 1928.

Ser. No. 265,606. LESTER J. ALEXANDER, New York, N. Y. Filed Apr. 30, 1928.

$ KUT FUL 1

Applicant disclaims the dollar sign "$" and the words "Kut Ful" and the figure "1" apart from the mark as shown. The lining shown in drawing indicates the colors blue and red.
For Pajamas and Men's Dress Shirts and Textile Underwear.
Claims use since Oct. 6, 1926.

Ser. No. 265,827. BLUE-BELLE DRESS CO., New York, N. Y. Filed May 3, 1928.

BLUE BELLE

For Dresses for Women, Misses, and Juniors.
Claims use since Mar. 16, 1928.

Ser. No. 265,894. DWORETSKY & ANENBERG, New York and Brooklyn, N. Y. Filed May 4, 1928.

DE-AN-AY

For Men's, Women's, and Children's Underwear of Knitted, Netted, or Textile Fabric; Men's, Women's, and Children's Stockings and Socks of Silk, Cotton, and Wool; Hats and Caps for Men and Children, Collars, Neckties, Cloth and Leather Gloves, Sweaters, Brassières, Girdles, and Corsets, Garters, Bath and House Robes, Women's and Children's Dresses, Rompers, Scarfs, Men's Dress and Work Shirts, Belts for Supporting Garments, Suspenders, and Reefers.
Claims use since 1923.

Ser. No. 265,944. BRAFMAN BROS., Brooklyn, N. Y. Filed May 5, 1928.

"Modern Maid"

For Ladies' Textile Fabric Underwear.
Claims use since May 1, 1927.

Ser. No. 266,145. WALTON N. MOORE DRY GOODS CO. INC., San Francisco, Calif. Filed May 9, 1928.



The drawing is lined to indicate the colors green, black, and yellow. Applicant disclaims the word "Dresses" apart from the mark as shown on the drawing.

For Women's, Children's, and Misses' Dresses and Aprons.

Claims use since Apr. 26, 1928.

Ser. No. 266,151. SHERMAN BROS., New York, N. Y. Filed May 9, 1928.

Sherbrooke
RAINWEAR

Applicant disclaims the use of the words "Sherbrooke" and "Rainwear" apart from the mark shown in the drawing.

For Raincoats for Men, Women, and Children.

Claims use since March, 1928.

Ser. No. 266,382. LARNED, CARTER & COMPANY, Detroit, Mich. Filed May 14, 1928.

MONEY SAVER

For Working Clothing Consisting of Overalls, Coats, Pants, and Combinations Consisting of Pants and Coats Made of Overall Material.

Claims use since about May. 15, 1928.

Ser. No. 266,592. J. JACOBY COMPANY, Los Angeles, Calif. Filed May 18, 1928.

SIERRA NEVADA

For Leather and Fabric Belts for Use as Garment Supporters, Men's and Boys' Pajamas and Nightshirts, Men's and Boys' Knitted Sweater Coats; Men's and Boys' Dress, Negligee, and Work Shirts and Undershirts of Knitted and Textile Fabrics; Garters and Suspenders; Men's, Boys', and Children's Knitted Underwear, Hosiery, and Cut and Sewed Textile Underwear.

Claims use since May 15, 1922.

Ser. No. 267,147. CHARLES SEIDMAN, doing business as Charles Seidman & Co., Philadelphia, Pa. Filed May 28, 1928.



WHITE CHIEF BRAND

The lining in the drawing is for the color red. However, applicant makes no claim to any particular color. The word "Brand" is hereby disclaimed apart from the mark shown on the drawing.

For Men's, Women's, and Boys' Knitted Sweaters.

Claims use since May 23, 1928.

Ser. No. 267,265. R. H. MACY & CO., INC., New York, N. Y. Filed May 31, 1928.

RIGHT SHAPE

Applicant owns registration No. 130,354.

For Leather and Canvas Shoes.

Claims use since 1905.

Ser. No. 267,468. LESTER H. STONE, Chicago, Ill. Filed June 4, 1928.

THE STONE HEALTH SHOE

No claim is made to the words "The," "Health," or "Shoe" apart from the mark shown in the drawing.

For Leather Shoes.

Claims use since January, 1927.

Ser. No. 267,744. J. BRENER CO., Boston, Mass. Filed June 9, 1928.

THE Beacon Ray

For Ladies' Knitted Bloomers, Panties, Step-Ins, Slips, Union Suits, Chemises, and Vests.

Claims use since May 1, 1928.

Ser. No. 267,793. PENDLETON WOOLEN MILLS, Portland, Oreg. Filed June 9, 1928.

Rainier Park

For Clothing—Namely, Men's, Women's, and Children's Sweaters, Coats, Hosiery, Bath Robes, and Women's and Misses' Woolen Dresses.

Claims use since Feb. 1, 1928.

Ser. No. 267,806. ALVIN C. SELIG, San Francisco, Calif. Filed June 9, 1928.

Stuart Hall

For Boys' and Men's Outer Clothing—Namely, Suits, Overcoats, and Sport Topcoats.

Claims use since Mar. 3, 1928.

Ser. No. 267,851. MOUNT AIRY OVERALL CO., Mount Airy, N. C. Filed June 11, 1928.

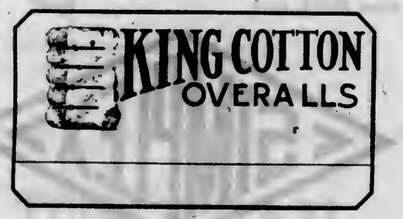


No claim is made to the word "Overalls" apart from the mark shown in the drawing.

For Work Shirts, Work Pants, and Overalls.

Claims use since Nov. 15, 1927.

Ser. No. 267,852. MOUNT AIRY OVERALL CO., Mount Airy, N. C. Filed June 11, 1928.



No claim is made to the words "Cotton" and "Overalls" apart from the mark as shown in the drawing.

For Work Shirts, Work Pants, and Overalls.

Claims use since Mar. 1, 1928.

Ser. No. 268,038. HENRY L. HIRSCHBERG, New York, N. Y. Filed June 14, 1928.

Beatus

For Women's and Children's Undergarments of Natural and Artificial Silk, Wool, Cotton, and Linen; Knitted and Textile Fabrics—Namely, Bloomers, Drawers, Step-Ins, Chemises, Shirts, Vests, Nightgowns, Pajamas, Petticoats, and Slips.

Claims use since Jan. 24, 1928.

Ser. No. 268,166. MICHELMAN GRASS HOSIERY COMPANY, INC., New York, N. Y. Filed June 16, 1928.

Jonquil

For Hosiery for Men, Women, Children, and Infants.

Claims use since June 6, 1928.

Ser. No. 268,217. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed June 18, 1928.

Victory Six

For Leather Shoes.

Claims use since about June 16, 1928.

Ser. No. 268,256. TRIPPE, BARKER & CO., New York, N. Y. Filed June 18, 1928.

PLUME
CHIFFON

No rights are asserted to the exclusive use of the word "Chiffon" apart from the mark as shown in the drawing.

For Dresses for Women, Misses, and Children.

Claims use since Mar. 1, 1928.

Ser. No. 268,400. THE SPAIDE SHIRT COMPANY, Butler, Pa. Filed June 20, 1928.

SPAIDE-LOX

For Work, Sport, and Children's Shirts.

Claims use since Apr. 20, 1928.

Ser. No. 268,455. S. MAKRANSKY & SONS, Philadelphia, Pa. Filed June 21, 1928.

DEVONSHIRE



No registration rights are claimed for the word "Devonshire" apart from the mark shown on the drawing.
For Men's Suits, Overcoats, and Topcoats.
Claims use since Apr. 1, 1928.

Ser. No. 268,486. CONRAD & CO. INC., Boston, Mass. Filed June 22, 1928.

"DUX-BAC"

For Women's and Misses' Hose.
Claims use since May 1, 1928.

Ser. No. 268,487. CONRAD & CO. INC., Boston, Mass. Filed June 22, 1928.

Fontaine Frocks

The word "Frock" is disclaimed apart from the mark shown in the drawing.
For Women's and Misses' Dresses.
Claims use since May 27, 1928.

Ser. No. 268,711. J. TARTIKOFF & SONS, New York, N. Y. Filed June 26, 1928.

Camp-o

For Boys' Suits.
Claims use since May 20, 1928.

Ser. No. 268,818. SACKRIN, EISENBERG & PERLSTEIN, New York, N. Y. Filed June 28, 1928.

The Varsity Miss



For Ladies' Dress Coats.
Claims use since June 1, 1928.

Ser. No. 268,834. THE CHAS. ALSHULER MFG. CO., Racine, Wis. Filed June 29, 1928.

World Beater

For Outer Shirts—Namely, Work, Dress, and Flannel Shirts of Cotton, Woolen, and Flannel Materials, for Men and Boys.
Claims use since Apr. 1, 1928.

Ser. No. 268,871. KOLLINER-NEWMAN MFG. CO., Stillwater, Minn. Filed June 29, 1928.

BRULE STAG



For Coats, Jackets, Jumpers, Mackinaws, and Vests for Men, Women, Boys, and Girls.
Claims use since June 14, 1928.

Ser. No. 268,881. OSHKOSH OVERALL CO., Oshkosh, Wis. Filed June 29, 1928.

ShadoWeve

For Overalls, Work Coats, Jackets, and Pants.
Claims use since Apr. 1, 1928.

Ser. No. 268,960. HEILIG & FLOREA, INC., New York, N. Y. Filed July 2, 1928.

SIMPLEX

For Gloves Made of Fabric, of Leather, or of Combinations Thereof.
Claims use since Mar. 1, 1928.

Ser. No. 269,038. THE ROSENBAUM COMPANY, Pittsburgh, Pa. Filed July 3, 1928.

Lynbrook

For Ladies' and Misses' Coats and Dresses.
Claims use since Mar. 19, 1928.

Ser. No. 269,115. S. GROSSMAN & CO., New York, N. Y. Filed July 5, 1928.

BEAVERCURL

For Boys' Overcoats.
Claims use since June 13, 1928.

Ser. No. 269,137. NATIONAL DEPARTMENT STORES INC., New York, N. Y. Filed July 5, 1928.

Modecraft

For Ladies' Hosiery.
Claims use since May 7, 1928.

Ser. No. 269,160. THE STERLING COMPANY, Chicago, Ill. Filed July 5, 1928.

LYNDELENE

For Ladies' Aprons and House Dresses.
Claims use since Apr. 10, 1928.

Ser. No. 269,177. BEAR BRAND HOSIERY CO., Chicago, Ill. Filed July 6, 1928.

TOBOGGAN

For Hosiery.
Claims use since June 28, 1928.

Ser. No. 269,284. FINCH, VAN SLYCK & MCCONVILLE, St. Paul, Minn. Filed July 9, 1928.

'88'

For Men's, Women's, and Children's Hosiery.
Claims use since June 1, 1924.

Ser. No. 269,319. FRANCES SACHSENMAIER, doing business as Realart Silk Hosiery Mills, Philadelphia, Pa. Filed July 9, 1928.

LARKWOOD

For Hosiery.
Claims use since Apr. 5, 1924.

Ser. No. 269,326. SHOAF-SINK HOSIERY MILL COMPANY, Lexington, N. C. Filed July 9, 1928.

Lakeview

For Hosiery.
Claims use since Feb. 15, 1928.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 259,184. ROSENAU BROS., INC., Philadelphia, Pa. Filed Dec. 20, 1927.

Cinderella Rubberetts

For Elastic Bands for Women's and Children's Garments.
Claims use since Nov. 10, 1927.

Ser. No. 262,984. DR. HEINE. TRAUN & SÖHNE, VORMALS HARBURGER GUMMI-KAMM-COMPAGNIE, Hamburg, Germany. Filed Mar. 10, 1928.

Sawing Man

For Combs Except Combs Made of Precious Metal.
Claims use since about Jan. 1, 1926.

CLASS 41.

Canes, Parasols, and Umbrellas.

Ser. No. 267,151. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Canes, Parasols, and Umbrellas.
Claims use since 1900.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 245,970. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Mar. 18, 1927.

HOME-CREST SALEM

The word "Salem" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Axminister Rugs.
Claims use since Apr. 5, 1926.

Ser. No. 260,979. BRIGHTON MILLS, Allwood, N. J., Shannon, Ga., and Passaic, N. J. Filed Feb. 1, 1928.

BRIGHTONET

For Netted Woven Card Fabrics of Cotton.
Claims use since Oct. 15, 1927.

Ser. No. 266,084. GLENWOOD COTTON MILLS, Easley, S. C. Filed May 8, 1928.

KEOWEE

For Cotton Sheetings.
Claims use since Jan. 23, 1913.

Ser. No. 267,316. ARNOLD ROSENFELD SILK CORPORATION, New York, N. Y. Filed June 1, 1928.

CORA CREPE

No claim is made to the exclusive use of the word "Crepe" except in the association shown.
For Silk Piece Goods.
Claims use since May 8, 1928.

Ser. No. 267,318. ARNOLD ROSENFELD SILK CORPORATION, New York, N. Y. Filed June 1, 1928.

ARBEAU SATIN

No claim is made to the right to exclusive use of the word "Satin" except in the association shown.
For Silk Piece Goods.
Claims use since May 8, 1928.

Ser. No. 268,072. ALFRED LOUIS, Piccadilly, Manchester, England. Filed June 15, 1928.



The LOUIS' VELVETEEN

The eagle's head and "The Louis Velveteen" are disclaimed apart from the mark shown.
For Cotton Velveteens in the Piece.
Claims use since 1880.

Ser. No. 269,117. HAHLO & SOLOMON, INC., New York, N. Y. Filed July 5, 1928.



The drawing is lined to indicate purple color. No claim is made to the word "Brand" apart from the mark shown.
For Piece Goods for Lining Made of Cotton or Silk.
Claims use since January, 1925.

Ser. No. 269,218. BERTH ROBERT-GROSS INC., New York, N. Y. Filed July 7, 1928.

Cavada

For Cotton and Linen Piece Goods.
Claims use since June 14, 1928.

Ser. No. 270,103. WEEKS, SAWYER & CO., New York, N. Y. Filed July 24, 1928.

TUBCILLA

For Cotton Piece Goods.
Claims use since July, 1923.

CLASS 43.

Thread and Yarn.

Ser. No. 260,992. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, and Berlin, Germany. Filed Feb. 1, 1928.



The drawing is lined for color, the diagonal lines indicating the color green.
For Artificial-Silk Thread and Artificial Spinning Fibers.
Claims use since July 14, 1926.

Ser. No. 269,572. THOMAS H. BARKER'S SONS COMPANY, Gladwyne, Pa. Filed July 14, 1928.

RAYBAR

For Spun Rayon Yarn.
Claims use since about May 5, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 266,980. PIERRE DE LA MONTANYA, doing business as Alta Vista Company, San Francisco, Calif. Filed May 25, 1928.

ALTA VISTA

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since May 14, 1928.

Ser. No. 267,666. JACOB S. POLEFSKY, New York, N. Y. Filed June 7, 1928.



For Extract for Flavoring Soft Drinks Such as Ginger Ale and Other Carbonated Waters.
Claims use since Aug. 1, 1926.

Ser. No. 268,968. CONEY ISLAND SODA WATER CO., INC., also doing business as Teitler's Beverages, Brooklyn, N. Y. Filed July 2, 1928.



Applicant makes no claim to the exclusive use of the word "Beverages."
For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since March, 1927.

Ser. No. 269,101. DORADO CLUB BEVERAGE COMPANY, Los Angeles, Calif. Filed July 5, 1928.



The words "It Blends" are disclaimed apart from the mark as shown.
For Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since May 21, 1928.

Ser. No. 269,782. HEKELNKAEMPER BROS., Atchinson, Kans. Filed July 18, 1928.

HEART OF AMERICA

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since May 19, 1928.

Ser. No. 269,908. OLD HAMPSHIRE, INC., New York, N. Y. Filed July 20, 1928.

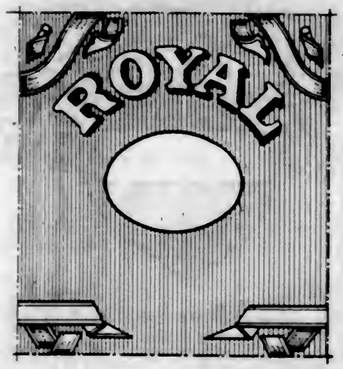
AMERICA'S TOAST

For Ginger Ale.
Claims use since June 20, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 218,375. ROYAL BAKING POWDER COMPANY, Jersey City, N. J., and New York, N. Y. Filed Aug. 4, 1925.



The background of drawing is indicated in red.
For Mayonnaise Salad Dressing, Gelatine, Gelatine Desserts, Yeast, Custard Powder, and Dessert Powder.
Claims use since April, 1873.

Ser. No. 239,928. GOLDEN NUGGET SWEETS, San Francisco, Calif. Filed Nov. 11, 1926.

Divinity Nuggets

For Fudge and Nougat.
Claims use since Dec. 29, 1923.

Ser. No. 243,615. FRANCISCO MARTIN, New York, N. Y. Filed Jan. 31, 1927.

SEÑORITTA

For Canned Pimientos.
Claims use since November, 1925.

Ser. No. 244,959. GIORGIO SANGUINETTI, doing business as Fabbriche Italiane Conserve Alimentari dell' Adriatico G. Sanguinetti, Trieste, Italy. Filed Feb. 26, 1927.

SPHINX BRAND

Exclusive use of the word "Brand" is disclaimed apart from the mark shown.
For Canned Fish and Antipasto (Italian Relish) Packed in Tins and Glass Jars.
Claims use since May, 1888.

Ser. No. 253,606. RED FOX ORCHARDS, Orange, Calif. Filed Aug. 17, 1927.

BONNIE LASSIE

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since December, 1915.

Ser. No. 255,111. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio. Filed Sept. 23, 1927. Under section 5b of the act of 1905 as amended in 1920.

CLIFTON BRAND

The word "Brand" is disclaimed apart from the mark shown in the drawing. Applicant is the owner of registration No. 206,421 effected under the 10-year proviso.
For Coffee.
Claims use since July 11, 1927.

Ser. No. 257,632. THE MCCLINTOCK-TRUNKEY CO., Spokane, Wash. Filed Nov. 16, 1927.

JUNO BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.
For Canned Tuna Fish, Butter, Coffee, Canned Clams, Sardines, Canned Lobsters, Canned Shrimp, Food-Flavoring Extracts, Rolled Oats, Cornflakes, Canned Prunes, Mincemeat, Olives, Catsup, Vinegar, Sugar, Rice, Honey, Jelly, Fruit Preserves, Marmalade, Conserve, Canned Figs, Canned Pimientos, Sandwich Filler Composed of Pickles, Mayonnaise Dressing and Pimientos, Mayonnaise, Thousand Island Dressing, Prepared Mustard, Sweet Relish, Pickles, Peanut Butter, Cheese, and Salad Mustard.
Claims use since 1904.

Ser. No. 259,710. BLUE RIBBON PRODUCTS COMPANY, Baltimore, Md., assignor to Gebauer & Kimpel, a Firm composed of Edward H. Gebauer and Edward A. Kimpel, Baltimore, Md. Filed Jan. 5, 1928.

OUR SPECIAL

For Malt Syrup.
Claims use since Dec. 19, 1927.

Ser. No. 260,863. WESTERN GROCER COMPANY, Marshalltown, Iowa. Filed Jan. 28, 1928.



For Canned Vegetables—Namely, Carrots, Onions; Canned Sauerkraut Juice, Dill Pickles, Canned Fruit for Salad, Shelled Walnut Meats, Shelled Black-Walnut Meats, Shelled Pecan Meats, Shelled Almond Meats, Creme Mayonnaise Dressing, Pop Corn in Its Natural State, Dried Codfish, Pastry Cake Flour; Canned Soups—Namely, Celery, Green Pea, Consomme, Beef, Mulligatawney, Mock Turtle, Oxtail, and Chicken; Canned Prunes, Sugar-Stuffed Dates, and Dried Washed Smyrna Figs.
Claims use since Mar. 11, 1918.

Ser. No. 266,049. THE SAVARINS, INC., New York, N. Y. Filed May 7, 1928.

SAVARIN

For Fruit Preserves in Cans and Jars, Pies, Coffee Cake, Macaroons, Fruit and Nut Cake, and Box Lunches Containing an Assortment of Prepared Foods of Which the Following is a Typical Menu: 1 Chicken Sandwich, 1 Ham Sandwich, 1 Hard-Boiled Egg, 1 Piece of Cake, 1 Piece of Cheese, 1 Orange, 1 Pickle, Salt, and Pepper.
Claims use since July 1, 1927.

Ser. No. 266,653. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla. Filed May 19, 1928.

SILVER SLICE



Exclusive use of the word "Slice" is disclaimed apart from the rest of the mark shown.
For Canned Grapefruit.
Claims use since Sept. 14, 1927.

Ser. No. 266,999. LANDAUER & CO., London, England. Filed May 25, 1928.

High Spray

For Canned Fruits, Dried Fruits, and Canned Vegetables.
Claims use since Aug. 27, 1926.

Ser. No. 267,000. LANDAUER & CO., London, England. Filed May 25, 1928.

Sundora

For Canned Fruits and Dried Fruits.
Claims use since Sept. 14, 1921.

Ser. No. 267,626. AKTIEBOLAGET SVERIGES FORENADE KONSERVFABRIKER, Gottenborg, Sweden. Filed June 7, 1928.



For Canned Fish.
Claims use since 1905.

Ser. No. 267,765. HAAS-LIEBER GROCERY COMPANY, St. Louis, Mo. Filed June 9, 1928.

RED ROBE

For Malt Syrup.
Claims use since May 15, 1926.

Ser. No. 268,264. THE BALTIMORE BUTTERINE CO., Baltimore, Md. Filed June 19, 1928.



Applicant makes no claim to the mere representation of a carton nor to any of the words appearing thereon except "Nikine" and applicant's corporate name.
For Cooking Compound.
Claims use since June 16, 1928.

Ser. No. 268,902. ARDMORE FLOUR & FEED CO., Ardmore, Okla. Filed June 30, 1928.

PURE and SURE

No claim is made to the word "Pure" apart from the mark as shown.
For Wheat Flour, Corn Meal, Alfalfa Molasses, Horse and Mule Feed, Mixed Dairy Feed, and Mixed Poultry Feed.
Claims use since June, 1926.

Ser. No. 269,154. THE RUBYETTE CO., San Francisco, Calif. Filed July 5, 1928.

RUBYETTE

For Ice-Cream, Ices, Sherbets, Pie, and Ice-Cream Pie.
Claims use since June 1, 1928.

Ser. No. 269,226. EARL FRUIT COMPANY, San Francisco, Calif. Filed July 7, 1928.

BOY KING

For Fresh Fruits.
Claims use since May 21, 1928.

Ser. No. 269,245. MID-PACIFIC CANDY COMPANY, LIMITED, Honolulu, Territory of Hawaii. Filed July 7, 1928.

GOLDEN HAWAIIAN

Applicant disclaims right to the exclusive use of the geographical word "Hawaiian."
For Glacé Pineapple and Pineapple Confections.
Claims use since Apr. 25, 1928.

Ser. No. 269,255. PRATT-LOW PRESERVING COMPANY, Santa Clara, Calif. Filed July 7, 1928.

PRATTLOW

For Canned Fruits and Canned Vegetables, and Apricot Butter.
Claims use since Mar. 25, 1905.

Ser. No. 269,256. PRATT-LOW PRESERVING COMPANY, Santa Clara, Calif. Filed July 7, 1928.



For Canned Fruits and Canned Vegetables, and Apricot Butter.
Claims use since Jan. 1, 1923.

Ser. No. 269,274. F. M. BALL & COMPANY, San Francisco, Calif. Filed July 9, 1928.

LUCKY STRIKE

For Canned Fruits, Canned Vegetables, and Canned Fish.
Claims use since July 1, 1924.

Ser. No. 269,313. PAGE MILK CO., Merrill, Wis. Filed July 9, 1928.

Paco

For Canned Evaporated Milk.
Claims use since June, 1927.

Ser. No. 269,322. WILLIAM S. SCULL COMPANY, Camden, N. J. Filed July 9, 1928.

BOSCO

For Chocolate Malt Syrup.
Claims use since about June 26, 1928.

Ser. No. 269,360. MANITOWOC PRODUCTS COMPANY, Manitowoc, Wis. Filed July 10, 1928.



No claim is made to the exclusive right to the word "Pale" apart from the mark as shown.
For Malt Syrup.
Claims use since May 2, 1927.

Ser. No. 269,364. PENICK & FORD, LTD., New York, N. Y. Filed July 10, 1928.

Aunt Dinah

For Molasses.
Claims use since February, 1907.

Ser. No. 269,413. LOS ANGELES BREWING CO., Los Angeles, Calif. Filed July 11, 1928.



For Malt Syrup for Food Purposes and Malt Extract for Food Purposes.
Claims use since Mar. 5, 1928.

Ser. No. 269,417. NAT MILGRAM, doing business as Malt Products Co., Kansas City, Mo. Filed July 11, 1928.



For Malt Syrup.
Claims use since Jan. 1, 1927.

Ser. No. 269,427. WILLIAM D. ROSE, doing business as Have A Heart Candy Co., Portland, Oreg. Filed July 11, 1928.

Bill O' Fare

For Candy.
Claims use since June 20, 1928.

Ser. No. 269,486. SCOBEL & DAY, INC., New York, N. Y. Filed July 12, 1928.



No claim is made herein to the words "Brand," "Fruit" "Distributors," "Headquarters," and "New York City," nor the outline of the label apart from the mark as shown in the drawing.

For Fresh Pears.
Claims use since July 1, 1928.

Ser. No. 269,930. ALEXANDER MOLASSES COMPANY, Cincinnati, Ohio. Filed July 21, 1928.

CITRU-JEL

For Liquid Citrus Pectin for Making Jams and Jellies, Flavored and Unflavored.
Claims use since June 30, 1928.

Ser. No. 269,953. CHARLES GLAZE, Exeter, Calif. Filed July 21, 1928.

PIPE O' PEACE

For Fresh Grapes.
Claims use since June 15, 1928.

Ser. No. 269,961. KLINK CITRUS ASSOCIATION, Klink, Calif. Filed July 21, 1928.

EXTRACTOR

For Fresh Oranges, Fresh Lemons, and Fresh Grapefruit.
Claims use since May 29, 1928.

Ser. No. 269,972. NATIONAL FRUIT CANNING CO., Seattle, Wash. Filed July 21, 1928.

VALAMONT

For Canned Fruits.
Claims use since 1920.

Ser. No. 269,991. SERGEANT-PAUP COMPANY, Seattle Wash. Filed July 21, 1928.

REQUEST

For Canned Fish.
Claims use since June 12, 1928.

Ser. No. 270,002. YAKIMA FRUIT EXCHANGE, Yakima, Wash. Filed July 21, 1928.

RIMROCK

For Fresh Apples.
Claims use since October, 1926.

Ser. No. 270,018. DETROIT CREAMERY COMPANY, Detroit, Mich. Filed July 23, 1928.



For Milk and Cream.
Claims use since June 26, 1928.

Ser. No. 270,128. IRVINE VALENCIA GROWERS, Irvine, Calif. Filed July 25, 1928.

LINEN

For Fresh Citrus Fruits.
Claims use since July 7, 1928.

Ser. No. 270,139. MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif. Filed July 25, 1928.

M. O. D.

For Fresh Citrus Fruits and Fresh Deciduous Fruits.
Claims use since June 23, 1928.

CLASS 47.

Wines.

Ser. No. 269,100. P. DE LA MONTANYA, doing business as Mount Rouge Company, San Francisco, Calif. Filed July 5, 1928.

Mount Rouge

For Wines.
Claims use since June 1, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 264,574. FORSTER AUTOMATIC POULTRY SEPARATOR COMPANY, Emeryville, Calif. Filed Apr. 9, 1928.



The word "Nest" is disclaimed apart from the mark shown.
For Poultry Nests.
Claims use since Oct. 1, 1926.

Ser. No. 266,253. KARNAK CHEMICAL COMPANY, West Chester, Pa. Filed May 11, 1928.

SAFE WALK

For Metal Reflectors to be Carried on the Person or Affixed to Supporters by the Roadside to Warn Motorists.
Claims use since Mar. 31, 1928.

Ser. No. 268,893. TEXTILEATHER CORPORATION, Newark, N. J. Filed June 29, 1928.

TEXTILOID

For Coated Fabric.
Claims use since May 29, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 4, 1928.

246,104. ALL-WOOL BLANKETS. CEDARBURG WOOLEN MILLS, Cedarburg, Wis.
Filed April 30, 1928. Serial No. 265,598. PUBLISHED JUNE 19, 1928. Class 42.

246,105. SAUSAGE CASINGS. THE VISKING CORPORATION, Chicago, Ill.
Filed April 28, 1928. Serial No. 265,592. PUBLISHED JUNE 12, 1928. Class 46.

246,106. PYROPHORIC POCKET CIGAR LIGHTERS. J. F. STURDY'S SONS CO., Attleboro Falls, Mass.
Filed April 20, 1928. Serial No. 265,175. PUBLISHED JUNE 19, 1928. Class 34.

246,107. RAYON AND SILK PIECE GOODS. SUSQUEHANNA SILK MILLS, New York, N. Y.
Filed April 28, 1928. Serial No. 265,588. PUBLISHED JUNE 26, 1928. Class 42.

246,108. CANDY. REPETTI, INC., Long Island City, N. Y.
Filed April 28, 1928. Serial No. 265,565. PUBLISHED JUNE 19, 1928. Class 46.

246,109. NONALCOHOLIC, NONCEREAL, AND MALTLESS BEVERAGES. REGINA PRODUCTS, INC., Spokane, Wash.
Filed April 28, 1928. Serial No. 265,563. PUBLISHED JUNE 26, 1928. Class 45.

246,110. COFFEE. PHELAN GROCERY COMPANY, Beaumont, Tex.
Filed April 28, 1928. Serial No. 265,558. PUBLISHED JUNE 26, 1928. Class 46.

246,111. IRONING TABLES. THE FEDERAL WASHBOARD COMPANY, Tiffin, Ohio.
Filed April 28, 1928. Serial No. 265,529. PUBLISHED JUNE 19, 1928. Class 24.

246,112. CANDY. THE EUCLID CANDY COMPANY, Brooklyn, N. Y.
Filed April 28, 1928. Serial No. 265,527. PUBLISHED JUNE 19, 1928. Class 46.

246,113. CANDY. CARPENTER COOK CO., also doing business as Michigan Candy Co., Menominee, Mich.
Filed April 28, 1928. Serial No. 265,520. PUBLISHED JUNE 19, 1928. Class 46.

246,114. LIQUID-FUEL-BURNING DEVICES. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill.
Filed April 27, 1928. Serial No. 265,512. PUBLISHED JUNE 19, 1928. Class 34.

246,115. MECHANICAL SPREADER FOR LOOSE AGGREGATE, SCREENINGS, STONE OR SLAG CHIPS, GRAVEL, SAND, AND CINDERS. GOOD ROADS COMPANY, INC., Upper Darby, Pa.
Filed April 26, 1928. Serial No. 265,431. PUBLISHED JUNE 19, 1928. Class 23.

246,116. THREADS, YARNS, AND COTTONS, FOR EMBROIDERING AND CROCHETING. T. BUETTNER & CO., INC., Chicago, Ill.
Filed April 27, 1928. Serial No. 265,467. PUBLISHED JUNE 26, 1928. Class 43.

246,117. VENTILATING FANS. B. F. STURTEVANT COMPANY, Hyde Park, Boston, Mass.
Filed April 25, 1928. Serial No. 265,416. PUBLISHED JUNE 19, 1928. Class 34.

246,118. SILK PIECE GOODS. ALGONQUIN SILK CORP., New York, N. Y.
Filed April 25, 1928. Serial No. 265,354. PUBLISHED JUNE 26, 1928. Class 42.

246,119. GRAPEFRUIT PRESERVES. JEAN A. BASSIS, Attleboro, Mass.
Filed April 25, 1928. Serial No. 265,361. PUBLISHED JUNE 26, 1928. Class 46.

246,120. BRAKE LINING. ASBESTOS SPINNING AND WEAVING CORPORATION, New York, N. Y.
Filed April 24, 1928. Serial No. 265,312. PUBLISHED JUNE 19, 1928. Class 35.

246,121. AUTOMOBILE HEATERS USING HOT GASES FROM THE ENGINE. ALBERT A. WILSON, doing business as Komfort Mfg. Co., Minneapolis, Minn.
Filed April 21, 1928. Serial No. 265,247. PUBLISHED JUNE 26, 1928. Class 19.

246,122. FERTILIZER. V. & M. PRODUCTS CO., Galesburg, Mich.
Filed April 21, 1928. Serial No. 265,243. PUBLISHED JUNE 19, 1928. Class 10.

246,123. PAPER BOXES. SIMPLEX PAPER BOX COMPANY, Lititz, Pa.
Filed April 21, 1928. Serial No. 265,239. PUBLISHED JUNE 19, 1928. Class 2.

246,124. SILK, ARTIFICIAL SILK, RAYON, COTTON, AND WOOLEN YARNS AND THREADS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 20, 1928. Serial No. 265,149. PUBLISHED JUNE 26, 1928. Class 43.

246,125. SILK, ARTIFICIAL SILK, RAYON, COTTON, AND WOOLEN YARNS AND THREADS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 20, 1928. Serial No. 265,148. PUBLISHED JUNE 26, 1928. Class 43.

246,126. THERMOSTATIC THERMOMETERS. THE COOPER OVEN THERMOMETER COMPANY, Pequabuck, Conn.
Filed April 20, 1928. Serial No. 265,141. PUBLISHED JUNE 19, 1928. Class 26.

246,127. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. COCA COLA BOTTLING COMPANY, Liberal, Kans.
Filed April 20, 1928. Serial No. 265,140. PUBLISHED JUNE 19, 1928. Class 45.

246,128. STEAM, GAS, AND OIL HEATED BAKERS' OVENS. THE PETERSEN OVEN COMPANY, Chicago, Ill.
Filed April 19, 1928. Serial No. 265,118. PUBLISHED JUNE 19, 1928. Class 34.

246,129. ANTISEPTIC, DEODORIZING, OR PROPHYLACTIC SOLUTION. UNITED DRUG COMPANY, Boston, Mass.
Filed April 18, 1928. Serial No. 265,076. PUBLISHED JUNE 12, 1928. Class 6.

246,130. AUTO TIRES AND TUBES. SOUTHERN TIRE AND RUBBER COMPANY, Augusta, Ga.
Filed April 18, 1928. Serial No. 265,071. PUBLISHED JUNE 26, 1928. Class 35.

246,131. TOBACCO POUCHES. PHILIP FLORIN, New York, N. Y.
Filed April 18, 1928. Serial No. 265,038. PUBLISHED JUNE 26, 1928. Class 8.

246,132. SKIN LOTION AND AN ANTISEPTIC TOILET CREAM FOR THE TREATMENT OF DISEASES AND AFFECTIONS OF THE SKIN, INCLUDING ECZEMA AND SUNBURN. MORRIS NOVECK, doing business as Dermatox Chemical Co., New Britain, Conn.
Filed April 17, 1928. Serial No. 265,000. PUBLISHED JUNE 12, 1928. Class 6.

246,133. TONIC, WASH, DIARRHEA TREATMENT, ASTHMA TREATMENT FOR BIRDS, AND A BALM FOR THE TREATMENT OF BIRDS' FEATHERS. CHAS. J. KOCH, doing business as Wonder Brand Food Co., Jersey City, N. J.
Filed April 17, 1928. Serial No. 264,994. PUBLISHED JUNE 12, 1928. Class 6.

246,134. FRUIT BOWLS, FLOWER BOWLS, VASES, ETC. INTERNATIONAL SILVER COMPANY, Meriden, Conn.
Filed April 17, 1928. Serial No. 264,989. PUBLISHED JUNE 19, 1928. Class 13.

246,135. GAS FLUID HEATERS. THE SANDS MANUFACTURING COMPANY, doing business as Badger Heater Co., Cleveland, Ohio.
Filed April 16, 1928. Serial No. 264,918. PUBLISHED JUNE 26, 1928. Class 34.

246,136. TOOLS FOR TWISTING COPPER SLEEVES ON ELECTRICAL WIRES. WILLIAM J. LEACH, Burlington, Wis.
Filed April 16, 1928. Serial No. 264,894. PUBLISHED JUNE 19, 1928. Class 23.

246,137. FRICTION CIGAR AND CIGARETTE LIGHTERS. WALES NOVELTIES CORP., New York, N. Y.
Filed April 14, 1928. Serial No. 264,855. PUBLISHED JUNE 19, 1928. Class 34.

246,138. SILK YARNS. AMERICAN SILK SPINNING CO., Providence, R. I.
Filed April 14, 1928. Serial No. 264,792. PUBLISHED JUNE 26, 1928. Class 43.

246,139. LIVE POULTRY—NAMELY, BABY CHICKS. WILLIAM A. WEBER, Mankato, Minn.
Filed April 13, 1928. Serial No. 264,786. PUBLISHED JUNE 26, 1928. Class 46.

246,140. ANTISEPTIC WASH AND DOUCHE. CLARENCE B. SACHER, doing business as Fluffe Co. Inc., Dallas, Tex.
Filed April 13, 1928. Serial No. 264,779. PUBLISHED JUNE 12, 1928. Class 6.

246,141. FURNITURE CUSHIONS FOR SEATS, BACKS, ARMS, ETC. NACHMAN SPRING-FILLED COMPANY, Chicago, Ill.
Filed April 13, 1928. Serial No. 264,771. PUBLISHED JUNE 26, 1928. Class 32.

246,142. DEVICES FOR PACKING AND TURNING OR UPENDING CONTAINERS FOR FRUITS, VEGETABLES, AND THE LIKE. THE CASKEY TURN KWIK CORPORATION, Martinsburg, W. Va.
Filed April 12, 1928. Serial No. 264,713. PUBLISHED JUNE 26, 1928. Class 23.

246,143. WRITING INK. INDELLO INK COMPANY, Minneapolis, Minn.
Filed April 9, 1928. Serial No. 264,585. PUBLISHED JUNE 19, 1928. Class 11.

246,144. RAYON AND SILK PIECE GOODS. SEEKENEP SILK COMPANY, New York, N. Y.
Filed March 16, 1928. Serial No. 263,288. PUBLISHED JUNE 26, 1928. Class 42.

246,145. ROACH POWDER. GERRIT PETERS, doing business as Peters Chemical Company, Detroit, Mich.
Filed April 23, 1927. Serial No. 247,906. PUBLISHED JULY 5, 1927. Class 6.

246,146. CANDY. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed May 23, 1927. Serial No. 249,407. PUBLISHED JUNE 26, 1928. Class 46.

246,147. CHILDREN'S, JUNIORS', AND MISSES' COATS. SELIGMAN & KATZ, New York, N. Y.
Filed June 4, 1927. Serial No. 250,043. PUBLISHED MAY 15, 1928. Class 39.

246,148. SMOKING AND CHEWING TOBACCO AND CIGARETTES. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C.
Filed May 8, 1928. Serial No. 266,080. PUBLISHED JUNE 26, 1928. Class 17.

246,149. WOOLEN TEXTILE FABRICS IN THE PIECE. THE ATLANTIC MILLS, Olneyville, R. I., and Stottville, N. Y.
Filed May 8, 1928. Serial No. 266,075. PUBLISHED JUNE 26, 1928. Class 42.

246,150. WOOLEN TEXTILE FABIRCS IN THE PIECE. THE ATLANTIC MILLS, Olneyville, R. I., and Stottville, N. Y.
Filed May 8, 1928. Serial No. 266,074. PUBLISHED JUNE 26, 1928. Class 42.

246,151. GAS-BURNING APPARATUS AND PARTS THEREOF. GAS-AIRE, INCORPORATED, Cleveland, Ohio.
Filed May 7, 1928. Serial No. 266,026. PUBLISHED JUNE 26, 1928. Class 34.

246,152. SILKS IN THE PIECE. CAPITOL SILK CORPORATION, New York, N. Y.
Filed May 7, 1928. Serial No. 266,020. PUBLISHED JUNE 26, 1928. Class 42.

246,153. FRESH POTATOES. ALBERT MILLER & COMPANY, Chicago, Ill.
Filed May 7, 1928. Serial No. 266,009. PUBLISHED JUNE 19, 1928. Class 46.

246,154. AUTOMOBILE TIRES. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill.
Filed May 5, 1928. Serial No. 265,981. PUBLISHED JUNE 19, 1928. Class 35.

246,155. HAM SPREAD. CORNELIUS A. LEVY, doing business as Lord Baltimore Baked Ham Company, Baltimore, Md.
Filed May 5, 1928. Serial No. 265,975. PUBLISHED JUNE 19, 1928. Class 46.

246,156. MATTRESSES, BED SPRINGS, AND INNERSPRING MATTRESSES. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md.
Filed May 5, 1928. Serial No. 265,969. PUBLISHED JUNE 19, 1928. Class 32.

246,157. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. CALIFORNIA BEVERAGE CO., INC., Baltimore, Md.
Filed May 5, 1928. Serial No. 265,948. PUBLISHED JUNE 19, 1928. Class 45.

246,158. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. BLUE RIDGE BOTTLING CO., St. Louis, Mo.
Filed May 5, 1928. Serial No. 265,942. PUBLISHED JUNE 19, 1928. Class 45.

246,159. CERTAIN NAMED WEARING APPAREL. P. CENTEMERI & CO., New York, N. Y.
Filed January 14, 1928. Serial No. 260,096. PUBLISHED MAY 29, 1928. Class 39.

246,160. LEATHER OR FABRIC CHAIR SEATS AND CUSHIONS, CUSHIONS FOR VEHICLES AND BABY CARRIAGES, AND PICTURE AND MIRROR FRAMES. P. CENTEMERI & CO., New York, N. Y.
Filed January 14, 1928. Serial No. 260,094. PUBLISHED JUNE 26, 1928. Class 32.

246,161. LEATHER OR FABRIC CHAIR SEATS AND CUSHIONS, CUSHIONS FOR VEHICLES AND BABY CARRIAGES, AND PICTURE AND MIRROR FRAMES. P. CENTEMERI & CO., New York, N. Y.
Filed January 14, 1928. Serial No. 260,090. PUBLISHED JUNE 26, 1928. Class 32.

246,162. VALVE-RESEATING TOOLS FOR INSTALLING NEW VALVE SEATS IN INTERNAL-COMBUSTION ENGINES AND A VALVE-PLANING TOOL FOR REFACING THE ORIGINAL WORN VALVE SEATS OF INTERNAL-COMBUSTION ENGINES. K. O. LEE AND SON COMPANY, Aberdeen, S. Dak.
Filed January 13, 1928. Serial No. 260,059. PUBLISHED JUNE 26, 1928. Class 23.

246,163. SHOES AND SLIPPERS OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. H. JACOB & SONS, INC., Brooklyn, N. Y.
Filed January 10, 1928. Serial No. 259,917. PUBLISHED MAY 15, 1928. Class 39.

246,164. MEN'S TIES. HARRY FEILER COMPANY, INC., Louisville, Ky.
Filed January 10, 1928. Serial No. 259,902. PUBLISHED MAY 29, 1928. Class 39.

246,165. CARBONATED BEVERAGES INCLUDING PALE DRY GINGER ALE, SARSAPARILLA, CREAM SODA, LEMON SODA, LIME SODA, ORANGE SODA, GRAPE SODA, BIRCH BEER, CHOCOLATE SODA, STRAWBERRY SODA, RASPBERRY SODA, APPLE SODA, PINEAPPLE SODA, AND DISTILLED WATER. NEW YORK BOTTLING CO. INC., New York, N. Y.
Filed January 9, 1928. Serial No. 259,864. PUBLISHED JUNE 19, 1928. Class 45.

246,166. METALLIC WASTE-PAPER BASKETS, GARBAGE CANS, BREAD AND CAKE BOXES; FLOUR, SUGAR, COFFEE, AND TEA CONTAINERS; MATCH SAFES, AND CAKE CLOSETS. NATIONAL ENAMELING AND STAMPING COMPANY, Milwaukee, Wis.
Filed January 9, 1928. Serial No. 259,863. PUBLISHED JUNE 26, 1928. Class 2.

246,167. CAMEL'S-HAIR COATS FOR MEN, WOMEN, AND CHILDREN. HENRY FRIEDRICKS & CO., New York, N. Y.
Filed January 9, 1928. Serial No. 259,850. PUBLISHED MAY 15, 1928. Class 39.

246,168. PANAMA HATS AND VEGETABLE-FIBRE HATS FOR MEN. R. H. COMEY COMPANIES CONSOLIDATED, Brooklyn, N. Y.
Filed January 9, 1928. Serial No. 259,845. PUBLISHED MAY 22, 1928. Class 39.

246,169. COMBINED HEATERS AND VENTILATORS FOR MOTOR VEHICLES UTILIZING HOT AIR FROM THE ENGINE MANIFOLD AND COLD AIR FROM THE ENGINE FAN. THE LINDY-FAN COMPANY, New York, N. Y.
Filed July 27, 1927. Serial No. 252,609. PUBLISHED JUNE 19, 1928. Class 19.

246,170. CERTAIN NAMED WEARING APPAREL. THE HILTON COMPANY, INC., Newark, N. J.
Filed July 27, 1927. Serial No. 252,602. PUBLISHED MAY 29, 1928. Class 39.

246,171. CERTAIN NAMED WEARING APPAREL. THE HILTON COMPANY, INC., Newark, N. J.
Filed July 27, 1927. Serial No. 252,600. PUBLISHED MAY 29, 1928. Class 39.

246,172. TEXTILE THREADS. BELDING HEMINWAY COMPANY, New York, N. Y.
Filed July 26, 1927. Serial No. 252,541. PUBLISHED JUNE 12, 1928. Class 43.

246,173. TEXTILE THREADS. BELDING HEMINWAY COMPANY, New York, N. Y.
Filed July 26, 1927. Serial No. 252,540. PUBLISHED JUNE 12, 1928. Class 43.

246,174. BOYS' PLAY SUITS, BATH ROBES, AND BEACH COATS. ELY & WALKER DRY GOODS CO., St. Louis, Mo.
Filed July 13, 1927. Serial No. 251,960. PUBLISHED MAY 15, 1928. Class 39.

246,175. CHILDREN'S ATHLETIC WAIST UNION SUITS MANUFACTURED FROM TEXTILE FABRIC, AND OUTER GARMENTS—VIZ, CHILDREN'S WASH DRESSES, CHILDREN'S PANTIE WAISTS, CHILDREN'S PLAY FROCKS, CHILDREN'S ROMPERS, LITTLE BOYS' PLAY SUITS. JACOB FEINBERG, doing business as J. F. Underwear Company, Allentown, Pa.
Filed July 12, 1927. Serial No. 251,898. PUBLISHED OCTOBER 4, 1927. Class 39.

246,176. LADIES' HOSIERY. WOOLF BROTHERS, INC., Kansas City, Mo.
Filed July 8, 1927. Serial No. 251,705. PUBLISHED MAY 15, 1928. Class 39.

246,177. NONALCOHOLIC BEVERAGES—VIZ, NONALCOHOLIC, MALTLESS, NONCEREAL BEVERAGES SOLD AS SOFT DRINKS. CARL EDWARD CEDERLUND, doing business as J. Cederlunds Söner, Stockholm, Sweden, and Copenhagen, Denmark.
Filed June 30, 1927. Serial No. 251,321. PUBLISHED JUNE 26, 1928. Class 45.

246,178. CERTAIN NAMED PIECE GOODS. JOHN BOYLE & COMPANY INCORPORATED, New York, N. Y.
Filed June 16, 1927. Serial No. 250,623. PUBLISHED JUNE 26, 1928. Class 42.

246,179. MEDICINAL PREPARATION FOR EXPELLING WORMS FROM ALL LIVESTOCK AND POULTRY. VITAMINERAL PRODUCTS CO., Peoria, Ill.
Filed June 13, 1927. Serial No. 250,481. PUBLISHED JUNE 12, 1928. Class 6.

246,180. LADIES' FANCY NECKWEAR—NAMELY, COLLARS. TIMOTHY F. CROWLEY, New York, N. Y.
Filed April 14, 1927. Serial No. 247,415. PUBLISHED MAY 29, 1928. Class 39.

246,181. LADIES' WEARING APPAREL—NAMELY, VESTEES, WAISTS, SEMIWAISTS, LADIES' COLLARS, JABOTS, FICHUS, AND NECK RUFFS. TIMOTHY F. CROWLEY, New York, N. Y.
Filed April 14, 1927. Serial No. 247,414. PUBLISHED MAY 29, 1928. Class 39.

246,182. WATER-SOFTENING APPARATUS AND PARTS THEREFOR. WARD-LOVE PUMP CORPORATION, Rockford, Ill.
Filed March 26, 1927. Serial No. 246,453. PUBLISHED JUNE 26, 1928. Class 23.

246,183. WOMEN'S KNITTED AND WOVEN UNDERWEAR. IPSWICH MILLS, Boston, Mass.
Filed March 24, 1927. Serial No. 246,288. PUBLISHED MAY 29, 1928. Class 39.

246,184. CERTAIN NAMED NECKTIES AND MUFFLERS. A. S. GOLDMAN & CO. INC., New York, N. Y.
Filed March 16, 1927. Serial No. 245,838. PUBLISHED MAY 15, 1928. Class 39.

246,185. HAM, BACON, AND SAUSAGES. THE PAVELKA BROTHERS COMPANY, Cleveland, Ohio.
Filed March 15, 1927. Serial No. 245,805. PUBLISHED JUNE 19, 1928. Class 46.

246,186. CHILDREN'S TEXTILE UNDERWEAR CONSISTING OF COMBINATION PANTIES AND UNDERSHIRTS. ROYAL MANUFACTURING COMPANY, Allentown, Pa.
Filed March 12, 1927. Serial No. 245,660. PUBLISHED MAY 29, 1928. Class 39.

246,187. CHILDREN'S AND MISSES' DRESSES. HARRY LINSK, doing business as H. Linsk & Co., Philadelphia, Pa.
Filed March 8, 1928. Serial No. 262,811. PUBLISHED May 15, 1928. Class 39.

246,188. LADIES' AND MISSES' KNIT SWEATERS, DRESSES, AND BATHING SUITS. CARL G. LAMPL, doing business as C. G. L. Knitwear Co., Cleveland, Ohio.
Filed March 8, 1928. Serial No. 262,810. PUBLISHED MAY 15, 1928. Class 39.

246,189. WORK AND PLAY SUITS FOR MEN, WOMEN, AND CHILDREN. UNION JOE MANUFACTURING CO., INC., New Orleans, La.
Filed March 7, 1928. Serial No. 262,782. PUBLISHED MAY 15, 1928. Class 39.

246,190. MAGNESIUM HYDROXIDE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,751. PUBLISHED JUNE 12, 1928. Class 6.

246,191. GENERAL TONIC. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,749. PUBLISHED JUNE 12, 1928. Class 6.

246,192. GENERAL TONIC. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,748. PUBLISHED JUNE 12, 1928. Class 6.

246,193. OINTMENT FOR RHEUMATISM, LUMBAGO, SCIATICA, NEURALGIA, BRUISES, CHILBLAINS, CROUP, COLD IN THROAT, BRONCHITIS, TONSILLITIS, SPRAINS, STIFF MUSCLES, ASTHMA, SORE THROAT, AND PAINS AND INFLAMMATION OF ALL KINDS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,747. PUBLISHED JUNE 12, 1928. Class 6.

246,194. OINTMENT FOR RHEUMATISM, LUMBAGO, SCIATICA, NEURALGIA, BRUISES, CHILBLAINS, CROUP, COLD IN THROAT, BRONCHITIS, TONSILLITIS, SPRAINS, STIFF MUSCLES, ASTHMA, SORE THROAT, AND PAINS AND INFLAMMATION OF ALL KINDS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,746. PUBLISHED JUNE 12, 1928. Class 6.

246,195. OINTMENT FOR CUTS, BURNS, BRUISES, COLD SORES, PIMPLES, AND AS A QUICK-HEALING ANTISEPTIC SALVE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,745. PUBLISHED JUNE 12, 1928. Class 6.

246,196. OINTMENT FOR CUTS, BURNS, BRUISES, COLD SORES, PIMPLES, AND AS A QUICK-HEALING ANTISEPTIC SALVE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,735. PUBLISHED JUNE 12, 1928. Class 6.

246,197. NOSE AND THROAT SPRAY AND GARGLE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,731. PUBLISHED JUNE 12, 1928. Class 6.

246,198. OINTMENT FOR BURNS, SCALDS, BRUISES, SPRAINS, CUTS, CHAPPED HANDS, SUNBURN, HAY FEVER, CROUP, CATARRH, PILES, INSECT BITES, AND PAINS AND INFLAMMATION OF ALL KINDS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,729. PUBLISHED JUNE 12, 1928. Class 6.

246,199. NOSE AND THROAT SPRAY AND GARGLE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,728. PUBLISHED JUNE 12, 1928. Class 6.

246,200. LEGGINGS. DOROTHY SOUTH LEG-GLUV CORPORATION, New York, N. Y.
Filed March 7, 1928. Serial No. 262,706. PUBLISHED MAY 29, 1928. Class 39.

246,201. LAXATIVE. JOHN C. SIEDENFUSS, doing business as Frute Nips Co., Blue Island, Ill.
Filed March 5, 1928. Serial No. 262,639. PUBLISHED JUNE 12, 1928. Class 6.

246,202. MEN'S KNITTED UNDERWEAR. UTICA KNITTING COMPANY, Utica, N. Y.
Filed March 5, 1928. Serial No. 262,636. PUBLISHED MAY 8, 1928. Class 39.

246,203. SKIN LOTION AND TALCUM POWDER. JACIEL PERFUMERS INC., New York, N. Y.
Filed March 5, 1928. Serial No. 262,608. PUBLISHED JUNE 12, 1928. Class 6.

246,204. LIQUID-MEASURING PUMPS. THE DAYTON PUMP & MANUFACTURING COMPANY, Dayton, Ohio.
Filed March 5, 1928. Serial No. 262,599. PUBLISHED JUNE 19, 1928. Class 26.

246,205. OVERCOATS, TOPCOATS, COATS, SUITS, TROUSERS, VESTS, AND SPORT SUITS FOR MEN AND BOYS. BARR & SHOULBERG, INC., New York, N. Y.
Filed March 5, 1928. Serial No. 262,590. PUBLISHED MAY 8, 1928. Class 39.

246,206. MEN'S AND YOUNG MEN'S COATS, VESTS, TROUSERS, TOPCOATS, AND OVERCOATS. SHIREK & HIRSCH, New York, N. Y.
Filed March 2, 1928. Serial No. 262,532. PUBLISHED MAY 15, 1928. Class 39.

246,207. CERTAIN NAMED FUSED-SILICA ARTICLES. AMERSIL COMPANY, INC., New York, N. Y.
Filed January 9, 1928. Serial No. 259,834. PUBLISHED JUNE 19, 1928. Class 33.

246,208. LADIES' COTTON, LINEN, SILK, AND WOOLEN FROCKS, DRESSES, ROBES, COATS, AND AND SUITS. FELDT & SHEINBERG, Houston, Tex.
Filed January 5, 1928. Serial No. 259,719. PUBLISHED MAY 29, 1928. Class 39.

246,209. PERFUMES, TOILET WATERS, FACIAL CREAMS, LOTIONS. ABRAHAM E. GLICKMAN, doing business as Roxy Perfumer, Brooklyn, N. Y.
Filed January 4, 1928. Serial No. 259,678. PUBLISHED APRIL 24, 1928. Class 6.

246,210. MEN'S, WOMEN'S, AND CHILDREN'S ATHLETIC UNDERWEAR OF KNITTED AND TEXTILE FABRICS, ALSO WOMEN'S VESTS, BLOOMERS, BRASSIÈRES, AND CORSETS. NATIONAL TEXTILE DISTRIBUTORS CORPORATION, New York, N. Y.
Filed December 31, 1927. Serial No. 259,569. PUBLISHED MAY 8, 1928. Class 39.

246,211. CERTAIN NAMED WEARING APPAREL. HAHNE & COMPANY, Newark, N. J.
Filed December 30, 1927. Serial No. 259,490. PUBLISHED MAY 15, 1928. Class 39.

246,212. PUBLICATION ISSUED MONTHLY. SWETLAND PUBLICATIONS, INC., Los Angeles, Calif.
Filed December 20, 1927. Serial No. 259,186. PUBLISHED MARCH 13, 1928. Class 38.

246,213. RADIO RECEIVING SETS. GRIGSBY-GRUNOW-HINDS CO., now by change of name Grigsby-Grunow Company, Chicago, Ill.
Filed December 9, 1927. Serial No. 258,688. PUBLISHED APRIL 24, 1928. Class 21.

246,214. OINTMENT FOR EXTERNAL USE FOR THE RELIEF OF COLDS IN THE HEAD, NASAL CATARRH, CHAPPED HANDS AND FACE CUTS, WOUNDS, BRUISES, INSECT BITES, SPRAINS, SUNBURN, AND ALL KINDS OF SKIN ERUPTIONS. FRED D. BARNES, doing business as Heelem Medicine Company, Chicago, Ill.
Filed December 5, 1927. Serial No. 258,447. PUBLISHED JUNE 5, 1928. Class 6.

246,215. HOSIERY. W. T. GRANT COMPANY, Lynn, Mass.
Filed April 4, 1928. Serial No. 264,297. PUBLISHED MAY 29, 1928. Class 39.

246,216. MEN'S SUITS, TOPCOATS, AND OVERCOATS. HABER'S INCORPORATED, Port Arthur, Tex.
Filed January 7, 1928. Serial No. 259,803. PUBLISHED MAY 29, 1928. Class 39.

246,217. HOSE SUPPORTERS. GEORGE FROST COMPANY, Boston, Mass.
Filed January 5, 1928. Serial No. 259,723. PUBLISHED MAY 29, 1928. Class 39.

246,218. COFFEE AND TEA. C. W. ANTRIM & SONS, Richmond, Va.
Filed May 12, 1928. Serial No. 266,295. PUBLISHED JUNE 26, 1928. Class 46.

246,219. TACKLE BLOCKS AND PARTS THEREFOR—NAMELY, SHEAVES, BUSHINGS, AND HOOKS AND COMPONENT PARTS THEREOF. WESTERN BLOCK CO., Lockport, N. Y.
Filed May 11, 1928. Serial No. 266,288. PUBLISHED JUNE 19, 1928. Class 23.

246,220. LIQUID MOUTH WASH, MOUTH-WASH POWDER, AND SEDATIVE SOCKET PASTE. APTEX LABORATORIES, INC., New Haven, Conn.
Filed March 24, 1928. Serial No. 263,677. PUBLISHED JUNE 12, 1928. Class 6.

246,221. MEN'S AND YOUTHS' COATS, VESTS, TROUSERS, AND OVERCOATS. B. KUPPENHEIMER & CO. INC., Chicago, Ill.
Filed March 23, 1928. Serial No. 263,656. PUBLISHED MAY 8, 1928. Class 39.

246,222. DRESS AND NEGLIGEE SHIRTS, BLOUSES, AND PAJAMAS FOR MEN, YOUTHS, AND BOYS. S. LIEBOVITZ & SONS, INC., New York, N. Y.
Filed March 22, 1928. Serial No. 263,610. PUBLISHED MAY 29, 1928. Class 39.

246,223. PERFUME, FACE POWDER, COMPACT ROUGE, LIP ROUGE, AND BATH SALTS. LENGYEL FRERES, INC., New York, N. Y.
Filed March 22, 1928. Serial No. 263,609. PUBLISHED JUNE 12, 1928. Class 6.

246,224. SALVES FOR USE IN THE TREATMENT OF BOILS, ABSCESSES, PILES, BURNS, FELONS, SKIN DISEASES AND ERUPTIONS, COLD SORES, INFECTED WOUNDS, AND MUSCLE SORENESS AND INFLAMMATION. REBECCA M. ABBER, Malden, Mass.
Filed March 22, 1928. Serial No. 263,576. PUBLISHED JUNE 12, 1928. Class 6.

246,225. WASHING FLUID FOR USE IN REMOVING STAINS FROM CLOTHES. V & V HALF HOUR WASHING FLUID CO., South Greensburg, Pa.
Filed March 21, 1928. Serial No. 263,569. PUBLISHED JUNE 5, 1928. Class 6.

246,226. BIOLOGICAL PRODUCTS PREPARED FROM THE STREPTOCOCCUS, CARDIOARTHRITIDIS FOR IMMUNIZATION AGAINST RHEUMATIC FEVER, CHOREA, AND COMPLICATIONS. H. K. MULFORD COMPANY, Philadelphia, Pa.
Filed March 21, 1928. Serial No. 263,555. PUBLISHED JUNE 12, 1928. Class 6.

246,227. LADIES' HATS. COARI HATS, INC., New York, N. Y.
Filed March 21, 1928. Serial No. 263,538. PUBLISHED MAY 15, 1928. Class 39.

246,228. RECTIFYING TUBES. GRIGSBY-GRUNOW-HINDS CO., now by change of name to Grigsby-Grunow Company, Chicago, Ill.
Filed March 3, 1928. Serial No. 262,562. PUBLISHED MAY 22, 1928. Class 21.

246,229. MAGNESIUM HYDROXIDE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,493. PUBLISHED JUNE 12, 1928. Class 6.

246,230. ANTISEPTIC OINTMENT. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,492. PUBLISHED JUNE 12, 1928. Class 6.

246,231. EYE WASH. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,491. PUBLISHED JUNE 12, 1928. Class 6.

246,232. CITRUS FRUIT JUICE TREATED TO PRESERVE ITS ODOR AND FLAVOR AND TO RETAIN ITS ANTISCORBUTIC PROPERTIES. GRAY SINGLETON, Fort Meade, Fla.
Filed May 11, 1928. Serial No. 266,277. PUBLISHED JUNE 19, 1928. Class 45.

246,233. BOLT CLIPPERS, ROD CUTTERS, WIRE CUTTERS, AND RIVET CUTTERS. H. K. PORTER, INC., Everett, Mass.
Filed May 11, 1928. Serial No. 266,269. PUBLISHED JUNE 19, 1928. Class 23.

246,234. SHOVELS, SPADES, AND SCOOPS. AMES SHOVEL & TOOL COMPANY, Boston, Mass.
Filed May 11, 1928. Serial No. 266,233. PUBLISHED JUNE 26, 1928. Class 23.

246,235. CANDY. WARD-OWSLEY CO. INC., Aberdeen, S. Dak.
Filed May 10, 1928. Serial No. 266,230. PUBLISHED JUNE 19, 1928. Class 46.

246,236. FISH FORKS, HAYFORKS, CLOVER FORKS, ETC. THE UNION FORK & HOE COMPANY, Columbus, Ohio.
Filed May 10, 1928. Serial No. 266,228. PUBLISHED JUNE 26, 1928. Class 23.

246,237. HAND WEEDERS. THE UNION FORK & HOE COMPANY, Columbus, Ohio.
Filed May 10, 1928. Serial No. 266,227. PUBLISHED JUNE 19, 1928. Class 23.

246,238. CAMERA-LENS FILTERS. BURLEIGH BROOKS, New York, N. Y.
Filed May 10, 1928. Serial No. 266,187. PUBLISHED JUNE 19, 1928. Class 26.

246,239. COTTON PIECE GOODS. RIDLEY WATTS & COMPANY, New York, N. Y.
Filed May 8, 1928. Serial No. 266,100. PUBLISHED JUNE 26, 1928. Class 42.

246,240. APPARATUS FOR THE BURNING OF FERTILIZING MATERIAL IN THE FORM OF BRIQUETTES WHICH WHEN SUBJECTED TO HEAT RELEASE GASES FOR THE FERTILIZATION OF PLANTS. ERICH REINAU, Berlin-Steglitz, Germany.
Filed May 8, 1928. Serial No. 266,098. PUBLISHED JUNE 26, 1928. Class 34.

246,241. SHOW CASES; STORE FIXTURES—NAMELY, WALL CASES, COMPARTMENT CASES, DISPLAY CASES, AND REFRIGERATED DISPLAY CASES. WERER SHOWCASE & FIXTURE CO., INC., Los Angeles, Calif.
Filed November 2, 1927. Serial No. 256,983. PUBLISHED JUNE 19, 1928. Class 32.

246,242. DRESS, NEGLIGEE, WORK, AND FLANNEL SHIRTS, NIGHTSHIRTS, AND PAJAMAS. SAMUEL VALENTINE CO. INC., New York, N. Y.
Filed November 18, 1927. Serial No. 257,764. PUBLISHED MAY 22, 1928. Class 39.

246,243. SAUSAGES FRANKFORT STYLE. NAAMLOOZE VENNOOTSCHAP E. NOACK'S KONINKLIJKE FIJNE VLEESCHWAREN- EN CONSERVENFABRIEKEN, Amersfoort, Netherlands.
Filed November 15, 1927. Serial No. 257,592. PUBLISHED JUNE 26, 1928. Class 46.

246,244. NECKTIES. CATHERINE STEBBINS, San Francisco, Calif.
Filed November 11, 1927. Serial No. 257,447. PUBLISHED MAY 29, 1928. Class 39.

246,245. HOSIERY FOR MEN, WOMEN, AND CHILDREN. DORIS SILK HOSIERY COMPANY, New York, N. Y.
Filed November 10, 1927. Serial No. 257,351. PUBLISHED MAY 22, 1928. Class 39.

246,246. COATS, VESTS, TROUSERS, AND OVERCOATS FOR MEN, YOUNG MEN, AND BOYS. ALFRED DECKER & COHN, INC., Chicago, Ill.
Filed November 10, 1927. Serial No. 257,331. PUBLISHED JUNE 12, 1928. Class 39.

246,247. CANDY. A. B. MEWHINNEY CO. INC., doing business as Mewhinney's, Terre Haute, Ind.
Filed November 9, 1927. Serial No. 257,301. PUBLISHED DECEMBER 27, 1927. Class 46.

246,248. EMPTY PAPER CONTAINERS AND CARTONS FOR ICE CREAM, WAX PAPER, FOOD, AND SIMILAR PRODUCTS. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Marathon Paper Mills Company, Rothschild, Wis., a Corporation of Wisconsin.
Filed November 9, 1927. Serial No. 257,300. PUBLISHED JUNE 26, 1928. Class 2.

246,249. TABLETS WHICH ARE DISSOLVED IN HOT WATER AND APPLIED AS A LOTION TO THE HAIR, USED IN THE ART OF PERMANENT HAIR WAVING. WILLIAM H. C. BINGHAM, Hoboken, N. J.
Filed November 1, 1927. Serial No. 256,856. PUBLISHED JUNE 5, 1928. Class 6.

246,250. PREPARATION FOR STOPPING HEMORRHAGE AND FOR PROMOTING THE HEALING OF WOUNDS. HEYL & CO. CHEMISCH-PHARMAZEUTISCHE FABRIK AKT.-GES., Berlin, Germany.
Filed October 26, 1927. Serial No. 256,624. PUBLISHED JUNE 12, 1928. Class 6.

246,251. LAP ROBES, STEAMER RUGS, BLANKETS, AND ROBE AND FOOT MUFF SETS, ALL OF TEXTILE MATERIAL. CURTIS & VON BERNUTH MFG. CO., New York, N. Y.
Filed October 26, 1927. Serial No. 256,612. PUBLISHED JUNE 19, 1928. Class 42.

246,252. FRESH APPLES AND FRESH PEARS. MID-COLUMBIA COLD STORAGE CORPORATION, New York, N. Y., and Hood River, Oreg.
Filed October 15, 1927. Serial No. 256,133. PUBLISHED DECEMBER 27, 1927. Class 46.

246,253. DOORCHECKS. USEFUL PRODUCTS COMPANY, West Orange, N. J.
Filed October 4, 1927. Serial No. 255,617. PUBLISHED JUNE 26, 1928. Class 13.

246,254. WOMEN'S UNDERGARMENTS—NAMELY, UNDERSKIRTS, UNDERSLIPS, AND PETTICOATS OF TEXTILE AND KNITTED MATERIAL. WINGET KICKERNICK COMPANY, Minneapolis, Minn.
Filed November 30, 1927. Serial No. 258,245. PUBLISHED MAY 8, 1928. Class 39.

246,255. FOOT AND GALL OINTMENT. EARLY L. ALLEN, doing business as Allen Brothers, Leesville, La.
Filed November 19, 1927. Serial No. 257,773. PUBLISHED JUNE 12, 1928. Class 6.

246,256. CERTAIN RAW GLASS AND GLASS ARTICLES. JENAER GLASWERK SCHOTT & GEN, Jena, Germany.
Filed October 3, 1927. Serial No. 255,514. PUBLISHED JUNE 19, 1928. Class 33.

246,257. MEN'S AND BOYS' HATS AND CAPS. ANCHOR CAP CO. INC., New York, N. Y.
Filed September 27, 1927. Serial No. 255,289. PUBLISHED MAY 22, 1928. Class 39.

246,258. SHOES MADE OF LEATHER, CLOTH, OR RUBBER OR ANY COMBINATION THEREOF. THE STERN-AUER COMPANY, Cincinnati, Ohio.
Filed September 7, 1927. Serial No. 254,477. PUBLISHED MAY 15, 1928. Class 39.

246,259. FACE LOTIONS. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed September 6, 1927. Serial No. 254,396. PUBLISHED JUNE 5, 1928. Class 6.

246,260. AWNING BRAID, OTHER BRAID, FRINGE, AND TAPES. PRISCILLA BRAID CO., Central Falls, R. I.
Filed February 24, 1928. Serial No. 262,178. PUBLISHED JUNE 5, 1928. Class 40.

246,261. FABRICS IN THE PIECE, DYED AND FINISHED, COMPOSED OF SILK, SILK AND COTTON, SILK AND WOOL, SILK AND RAYON, AND RAYON. EMPIRE PIECE DYEING AND FINISHING COMPANY, Paterson, N. J.
Filed May 21, 1928. Serial No. 266,724. PUBLISHED JUNE 26, 1928. Class 42.

246,262. TWINES AND ROPES. STONE AND FORSYTH COMPANY, Boston, Mass.
Filed May 19, 1928. Serial No. 266,689. PUBLISHED JUNE 26, 1928. Class 7.

246,263. PRINTED COTTON PIECE GOODS PRINCIPALLY USED AS MATTRESS TICKINGS. NATIONAL FABRIC & FINISHING COMPANY, Boston, Mass., and New York, N. Y.
Filed May 18, 1928. Serial No. 266,612. PUBLISHED JUNE 26, 1928. Class 42.

246,264. PRINTED COTTON PIECE GOODS PRINCIPALLY USED AS MATTRESS TICKINGS. NATIONAL FABRIC & FINISHING COMPANY, Boston, Mass., and New York, N. Y.
Filed May 18, 1928. Serial No. 266,610. PUBLISHED JUNE 26, 1928. Class 42.

246,265. MATCHES. THE JANSZEN COMPANY, Cincinnati, Ohio.
Filed May 18, 1928. Serial No. 266,594. PUBLISHED JUNE 26, 1928. Class 9.

246,266. POWDER TO BE USED AS AN INGREDIENT IN THE PREPARATION OF SOFT DRINKS. KNUD IVAN BRUUN, doing business as "Hill-Top" Products Company, Houston, Tex.
Filed May 18, 1928. Serial No. 266,579. PUBLISHED JUNE 26, 1928. Class 45.

246,267. CALCULATING MACHINES. UNITED ACCOUNTING MACHINES, INC., St. Louis, Mo.
Filed May 17, 1928. Serial No. 266,567. PUBLISHED JUNE 26, 1928. Class 26.

246,268. MACHINERY BELTING AND LEATHER WASHERS. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed May 17, 1928. Serial No. 266,532. PUBLISHED JUNE 26, 1928. Class 35.

246,269. PHOTOGRAPHIC CAMERAS. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed May 14, 1928. Serial No. 266,363. PUBLISHED JUNE 26, 1928. Class 26.

246,270. ROLLER MILLS INCLUDING INK AND PAINT MILLS. AMERICAN OVEN & MACHINE CO., Chicago, Ill.
Filed May 14, 1928. Serial No. 266,346. PUBLISHED JUNE 26, 1928. Class 23.

246,271. MATTRESSES. THE UNITED STATES BEDDING CO., St. Paul, Minn.
Filed May 12, 1928. Serial No. 266,339. PUBLISHED JUNE 26, 1928. Class 32.

246,272. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. LIBERTY BOTTLING COMPANY, Chicago, Ill.
Filed May 12, 1928. Serial No. 266,326. PUBLISHED JUNE 19, 1928. Class 45.

246,273. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed May 12, 1928. Serial No. 266,314. PUBLISHED JUNE 19, 1928. Class 42.

246,274. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed May 12, 1928. Serial No. 266,313. PUBLISHED JUNE 19, 1928. Class 42.

246,275. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed May 12, 1928. Serial No. 266,311. PUBLISHED JUNE 19, 1928. Class 42.

246,276. HOSIERY. STATE TEXTILE CORPORATION, New York, N. Y.
Filed February 20, 1928. Serial No. 261,993. PUBLISHED MAY 22, 1928. Class 39.

246,277. FOUL MEDICINE FOR ANIMALS. ARTHUR D. DRISCOLL, Whitney Point, N. Y.
Filed February 20, 1928. Serial No. 261,952. PUBLISHED JUNE 12, 1928. Class 6.

246,278. MACHINES FOR MIXING GRANULAR MATERIALS, FOUNDRY SAND WITH OR WITHOUT FLUID MATERIALS, AND OTHER SIMILAR MATERIALS. C. & B. SMITH, Wolverhampton, England.
Filed February 18, 1928. Serial No. 261,916. PUBLISHED JUNE 19, 1928. Class 23.

246,279. LICORICE CONFECTIONERY. NATIONAL LICORICE COMPANY, Brooklyn, N. Y., and Philadelphia, Pa.
Filed February 18, 1928. Serial No. 261,903. PUBLISHED JUNE 19, 1928. Class 46.

246,280. HATS AND CAPS FOR MEN. KNOX HAT COMPANY, INC., New York, N. Y.
Filed February 18, 1928. Serial No. 261,884. PUBLISHED MAY 8, 1928. Class 39.

246,281. CERTAIN NAMED WEARING APPAREL. HOLLAND-HERSOL CO. INC., New York, N. Y.
Filed February 18, 1928. Serial No. 261,881. PUBLISHED MAY 15, 1928. Class 39.

246,282. UNDERTHINGS FOR WOMEN AND CHILDREN—TO WIT, VESTS, PANTIES, BLOOMERS, STEP-IN CHEMISES, ENVELOPE CHEMISES, UNION SUITS (TEXTILE AND KNITTED), BANDEAUX, NIGHTGOWNS, PAJAMAS, ENSEMBLE PAJAMAS, ENSEMBLE GOWNS IN THE NATURE OF NEGLIGEES, COSTUME SLIPS, COMBINATION UNDERGARMENTS CONSISTING OF BLOOMERS OR PANTIES AND A BANDEAU OR VEST. R. H. MACY CO., INC., New York, N. Y.
Filed February 17, 1928. Serial No. 261,823. PUBLISHED MAY 8, 1928. Class 39.

246,283. FELT HATS FOR WOMEN, UNTRIMMED. HENRY POLLAK, INC., New York, N. Y.
Filed February 17, 1928. Serial No. 261,815. PUBLISHED MAY 8, 1928. Class 39.

246,284. TEA. LEOPOLD BELING, doing business as India Tea Bureau, New York, N. Y.
Filed February 17, 1928. Serial No. 261,786. PUBLISHED JUNE 26, 1928. Class 46.

246,285. SLEEPING-BAG GARMENTS, HATS, CAPS, SUITS, COATS, VESTS, JACKETS, SWEATERS, SPORT OR OUTING SHIRTS, TROUSERS, BREECHES, HOSE, AND BOOTS AND SHOES OF LEATHER, RUBBER, AND/OR FABRIC FOR MEN, WOMEN, AND CHILDREN. VON LENGERKE & ANTOINE, Chicago, Ill.
Filed February 16, 1928. Serial No. 261,778. PUBLISHED MAY 8, 1928. Class 39.

246,286. TANK-VALVE BULBS. J. A. SEXAUER MANUFACTURING CO., INC., New York, N. Y.
Filed February 15, 1928. Serial No. 261,724. PUBLISHED JUNE 26, 1928. Class 13.

246,287. CRANES OF ALL KINDS, MILLING MACHINERY, ETC. EISENWERK (VORM. NAGEL & KAEMP) A. G., Hamburg, Germany.
Filed February 14, 1928. Serial No. 261,668. PUBLISHED JUNE 26, 1928. Class 23.

246,288. SPEED-CHANGE PULLEYS HAVING HYDRAULIC AND ELECTRICAL CONTROLLING MEANS AND OPERABLE TO VARY THE SPEED OF MECHANISM DRIVEN BY THE PULLEYS. BLIZZARD SALES CO., Omaha, Nebr.
Filed February 13, 1928. Serial No. 261,607. PUBLISHED JUNE 19, 1928. Class 23.

246,289. TOOL FOR COLLAPSING SPLIT TIRE RIMS. FREDERICK N. KRUCKOW, doing business as Speed-Boy Mfg. Co., Detroit, Mich.
Filed February 11, 1928. Serial No. 261,576. PUBLISHED JUNE 26, 1928. Class 23.

246,290. GUM TONIC FOR TREATING THE GUMS OF THE MOUTH. STANLEY O. BROOKS, doing business as Dr. S. O. Brooks Drug Products Company, Lemont, Ill.
Filed February 11, 1928. Serial No. 261,549. PUBLISHED JUNE 5, 1928. Class 6.

246,291. NONALCOHOLIC, NONCEREAL, MALTLESS ORANGE BEVERAGE SOLD AS A SOFT DRINK AND CONCENTRATES AND SYRUPS FOR MAKING SOFT DRINKS. VENDOMETER CORPORATION, New York, N. Y.
Filed February 8, 1928. Serial No. 261,409. PUBLISHED JUNE 26, 1928. Class 45.

246,292. CHOCOLATES AND BONBONS. R. M. HAAN CANDY CO., INC., New York, N. Y.
Filed February 4, 1928. Serial No. 261,189. PUBLISHED JUNE 19, 1928. Class 46.

246,293. SOLUBLE CHEMICAL COMPOUNDS FOR USE AS DETERGENTS WITH AND WITHOUT THE ADDITION OF SOAP. THE COWLES DETERGENT COMPANY, Cleveland, Ohio.
Filed February 2, 1928. Serial No. 261,046. PUBLISHED MAY 29, 1928. Class 4.

246,294. PARCHMENT LAMP SHADES. JOHN B. SALTERINI, New York, N. Y.
Filed February 1, 1928. Serial No. 261,020. PUBLISHED JUNE 26, 1928. Class 24.

246,295. MEN'S HATS AND CAPS. CHARLES NISENSON, Newark, N. J.
Filed February 1, 1928. Serial No. 261,015. PUBLISHED MAY 8, 1928. Class 39.

246,296. PERMANENT-HAIR-WAVE PAD. ARIBERTO E. CIARLANTE, New York, N. Y.
Filed March 27, 1928. Serial No. 263,812. PUBLISHED MAY 29, 1928. Class 44.

246,297. MEDICAL PREPARATION USED AS A CORRECTIVE FOR AILMENTS IN CHILDREN FOR COLDS AND FEVERISH CONDITIONS. JOHN T. ADAIR, doing business as Adair's Drug Stores, Lexington, Ky.
Filed March 27, 1928. Serial No. 263,807. PUBLISHED JUNE 12, 1928. Class 6.

246,298. VETERINARY REMEDIES. VET PRODUCTS LABORATORY INC., Westbury, N. Y.
Filed March 26, 1928. Serial No. 263,798. PUBLISHED JUNE 5, 1928. Class 6.

246,299. LACTIC ACID. VET PRODUCTS LABORATORY INC., Westbury, N. Y.
Filed March 26, 1928. Serial No. 263,797. PUBLISHED JUNE 5, 1928. Class 6.

246,300. LARD. SWIFT & COMPANY, Chicago, Ill.
Filed March 26, 1928. Serial No. 263,792. PUBLISHED JUNE 26, 1928. Class 46.

246,301. LAXATIVE TONIC AND ALTERATIVE USED IN THE TREATMENT OF RHEUMATISM, NERVOUSNESS, NEURITIS, INDIGESTION, CONSTIPATION, GENERAL WEAKNESS, AND IMPURE BLOOD. THOMAS POULOS, Youngstown, Ohio.
Filed March 26, 1928. Serial No. 263,787. PUBLISHED JUNE 5, 1928. Class 6.

246,302. LIVER TABLETS. THE A. WISE CHEMICAL COMPANY, Newcastle, Ind.
Filed March 24, 1928. Serial No. 263,738. PUBLISHED JUNE 5, 1928. Class 6.

246,303. STOCKINGS. LOUIS TOPLITZ, New York, N. Y.
Filed March 24, 1928. Serial No. 263,734. PUBLISHED MAY 22, 1928. Class 39.

246,304. DRIED PRUNES. DEL RIO PACKING CORPORATION, Healdsburg, Calif.
Filed August 24, 1927. Serial No. 253,875. PUBLISHED JUNE 26, 1928. Class 46.

246,305. CERTAIN NAMED PAINT PRODUCTS. LUCILLE CHEMICAL COMPANY, Los Angeles, Calif.
Filed April 2, 1928. Serial No. 264,174. PUBLISHED JUNE 19, 1928. Class 16.

246,306. HOSIERY. MITCHELL HOSIERY MILLS, now by change of name Archer Hosiery Mills, Columbus, Ga.
Filed February 26, 1927. Serial No. 244,945. PUBLISHED APRIL 19, 1927. Class 39.

246,307. HOSIERY. RICHARDSON SILK COMPANY, Chicago, Ill.
Filed February 18, 1927. Serial No. 244,574. PUBLISHED MAY 15, 1928. Class 39.

246,308. INNER TUBES FOR PNEUMATIC TIRES. FRANK G. SCHENUIT Baltimore, Md.
Filed February 3, 1927. Serial No. 243,787. PUBLISHED JUNE 26, 1928. Class 35.

246,309. WROUGHT-IRON ART PRODUCTS, MORE PARTICULARLY WROUGHT-IRON FERN STANDS, TABLES, BENCHES, MIRROR FRAMES, BIRD-CAGE STANDS, AND AQUARIUM STANDS. BOYLE MANUFACTURING COMPANY, INC., Los Angeles, Calif.
Filed January 28, 1927. Serial No. 243,476. PUBLISHED JUNE 19, 1928. Class 32.

246,310. GLOVE-SILK UNDERWEAR FOR MEN, WOMEN, CHILDREN, AND INFANTS. LUXITE SILK PRODUCTS COMPANY, Milwaukee, Wis.
Filed January 27, 1927. Serial No. 243,443. PUBLISHED MAY 15, 1928. Class 39.

246,311. OVERALLS, COVERALLS, ROMPERS, SMOCKS, MEN'S SUITS, OVERCOATS, AND BREECHES. ZION'S CO-OPERATIVE MERCANTILE INSTITUTION, Salt Lake City, Utah.
Filed January 12, 1927. Serial No. 242,764. PUBLISHED MAY 8, 1928. Class 39.

246,312. SALAMI, BOLOGNA, FRANKFURTERS, PEPPER MEAT, CORNED BEEF, ROLLED BEEF, TONGUE, AND RENDERED FAT. UNITED KOSHER SAUSAGE COMPANY, Chicago, Ill.
Filed December 16, 1926. Serial No. 241,590. PUBLISHED JUNE 19, 1928. Class 46.

246,313. CERTAIN NAMED WEARING APPAREL. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed December 1, 1926. Serial No. 240,816. PUBLISHED MAY 15, 1928. Class 39.

246,314. GLOVES OF LEATHER. ABRAHAM & STRAUS, INC., New York, N. Y.
Filed October 26, 1926. Serial No. 239,220. PUBLISHED JANUARY 17, 1928. Class 39.

246,315. GERMICIDAL DETERGENT FOR THROAT AND MOUTH, USED IN LIQUID OR POWDERED FORM. LOYD A. JESSEN, doing business as Pan-American Chemical Co., Santa Rita, N. Mex.
Filed October 16, 1926. Serial No. 238,724. PUBLISHED JUNE 5, 1928. Class 6.

246,316. BOUDOIR SLIPPERS AND SHOES MADE CHIEFLY OF LEATHER, SATIN, OR BROCADE, OR A COMBINATION OF TWO OR MORE OF THESE MATERIALS. JEFFERSON IMPORT CO., INC., New York, N. Y.
Filed October 16, 1926. Serial No. 238,723. PUBLISHED MAY 29, 1928. Class 39.

246,317. CHEWING GUM. THE MINT GUM COMPANY, New York, N. Y.
Filed September 17, 1926. Serial No. 237,879. PUBLISHED NOVEMBER 2, 1926. Class 46.

246,318. LEATHER SHOES. IDEAL SHOE MFG. CO., Milwaukee, Wis.
Filed August 16, 1926. Serial No. 236,038. PUBLISHED MAY 22, 1928. Class 39.

246,319. CERTAIN NAMED WEARING APPAREL. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed May 21, 1926. Serial No. 232,034. PUBLISHED MAY 15, 1928. Class 39.

246,320. LEATHER SHOES. MACLAUGHLIN-SWEET, INC., Auburn, Me.
Filed April 22, 1926. Serial No. 230,555. PUBLISHED MAY 29, 1928. Class 39.

246,321. CERTAIN NAMED WEARING APPAREL. EMMA CLARA MILLETTE, doing business as Buffalo Cloth Weaving Company, Buffalo, N. Y.
Filed March 9, 1926. Serial No. 228,886. PUBLISHED MAY 22, 1928. Class 39.

246,322. TEA TABLES AND TEA WAGONS. PAALMAN FURNITURE COMPANY, Grand Rapids, Mich.
Filed February 8, 1926. Serial No. 227,035. PUBLISHED JUNE 26, 1928. Class 32.

246,323. KNITTED UNDERWEAR. GRIFFIN BUGGY CO., Griffin, Ga.
Filed January 21, 1926. Serial No. 226,193. PUBLISHED MAY 29, 1928. Class 39.

246,324. WIND ENGINES AND PUMPS, AND MORE PARTICULARLY FOR WINDMILLS. U. S. WIND ENGINE & PUMP CO., Batavia, Ill.
Filed July 15, 1925. Serial No. 217,433. PUBLISHED JUNE 26, 1928. Class 23.

246,325. TIRE PATCHES AND TIRE BOOTS. CHAUNCEY J. EVANS, doing business as Cactus Manufacturing Co., Los Angeles, Calif.
Filed March 25, 1925. Serial No. 211,577. PUBLISHED JUNE 26, 1928. Class 35.

246,326. PRESERVED VEGETABLES. INDUSTRIA MARMELLATE E CONSERVE ALIMENTARI, Voghera, Italy
Filed November 11, 1924. Serial No. 205,120. PUBLISHED JUNE 19, 1928. Class 46.

246,327. SUITS AND COATS FOR MEN AND BOYS, DRESSES AND COATS FOR WOMEN, CHILDREN'S COATS, SKIRTS AND WAISTS; UNDERWEAR, TEXTILE AND KNITTED FOR MEN, WOMEN, AND CHILDREN; FUR GARMENTS, VIZ, CLOAKS, STOLES, CHOKERS, AND NECK PIECES; KIMONOS, CHILDREN'S DRESSES; HOSIERY FOR MEN, WOMEN, AND CHILDREN; CORSETS AND NECKTIES, SKIN AND FABRIC GLOVES; HATS FOR MEN, WOMEN, AND CHILDREN; MEN'S AND BOYS' CLOTHING IN ONE, TWO, THREE, AND FOUR PIECE GARMENTS AND OVERCOATS; SHOES FOR MEN, WOMEN, AND CHILDREN MADE FROM LEATHER OR FABRIC OR COMBINATIONS THEREOF; AND SWEATERS. NATIONAL DEPARTMENT STORES INC., New York, N. Y.
Filed July 25, 1924. Serial No. 200,517. PUBLISHED NOVEMBER 17, 1925. Class 39.

246,328. VEGETABLE FAT. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed January 31, 1928. Serial No. 260,963. PUBLISHED JUNE 26, 1928. Class 46.

246,329. FURNITURE, AND MORE PARTICULARLY STEEL FURNITURE—NAMELY, KITCHEN CABINETS, MEDICINE CABINETS, IRONING-BOARD CABINETS, AND WARDROBES. ROCKFORD STEEL FURNITURE COMPANY, Rockford, Ill.
Filed January 30, 1928. Serial No. 260,913. PUBLISHED JUNE 26, 1928. Class 32.

246,330. FURNITURE, AND MORE PARTICULARLY STEEL FURNITURE—NAMELY, KITCHEN CABINETS, MEDICINE CABINETS, IRONING-BOARD CABINETS, AND WARDROBES. ROCKFORD STEEL FURNITURE COMPANY, Rockford, Ill.
Filed January 30, 1928. Serial No. 260,912. PUBLISHED JUNE 26, 1928. Class 32.

246,331. HOSIERY. STUDIO HOSIERY COMPANY, St. Louis, Mo.
Filed January 28, 1928. Serial No. 260,861. PUBLISHED MAY 22, 1928. Class 39.

246,332. TYPEWRITING MACHINES. REMINGTON TYPEWRITER COMPANY, Ilion and New York, N. Y.
Filed January 28, 1928. Serial No. 260,851. PUBLISHED JUNE 26, 1928. Class 23.

246,333. MEN'S AND BOYS' WORK COATS, OVERALLS, JUMPERS, WORK PANTS, AUTO OR COMBINATION SUITS, WORK SHIRTS, LUMBERJACKS, JACKETS, AND BREECHES. D. M. OBERMAN MFG. CO., doing business as Mid-Continent Mfg. Co., Jefferson City, Mo.
Filed January 27, 1928. Serial No. 260,747. PUBLISHED MAY 8, 1928. Class 39.

246,334. DYED AND BLEACHED HATS AND HAT BODIES FOR THE USE OF MEN, WOMEN, AND CHILDREN, COMPOSED PRINCIPALLY OF STRAW, CHIP, HEMP, VISCA, HAIR, PYROXYLINE, PEDALINE, AND ALL VEGETABLE-FIBER HATS. R. H. COMEY COMPANIES CONSOLIDATED, Brooklyn, N. Y.
Filed January 27, 1928. Serial No. 260,718. PUBLISHED MAY 8, 1928. Class 39.

246,335. OUTER GARMENTS FOR MEN, WOMEN, AND CHILDREN—NAMELY, KNICKERBOCKERS, KNEE BREECHES, GOLF PANTS, RIDING BREECHES, JACKETS, COATS, AND SUITS. AERO-BOCKER CO., New York, N. Y.
Filed January 26, 1928. Serial No. 260,667. PUBLISHED MAY 22, 1928. Class 39.

246,336. MEN'S, BOYS', GIRLS', AND WOMEN'S KNICKERS AND TROUSERS. J. OLEWITZ AND SON, New York, N. Y.
Filed January 24, 1928. Serial No. 260,582. PUBLISHED MAY 8, 1928. Class 39.

246,337. CERTAIN NAMED WEARING APPAREL. HOWLETT & HOCKMEYER CO., INC., New York, N. Y.
Filed January 24, 1928. Serial No. 260,568. PUBLISHED MAY 15, 1928. Class 39.

246,338. MEN'S SUITS AND COATS. MAX. BERRY, Boston, Mass.
Filed January 23, 1928. Serial No. 260,485. PUBLISHED MAY 15, 1928. Class 39.

246,339. WOMEN'S AND MISSES' SHOES AND SLIPPERS OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF. ELIAS-KATZ SHOE FACTORIES, Los Angeles, Calif.
Filed January 21, 1928. Serial No. 260,433. PUBLISHED MAY 15, 1928. Class 39.

246,340. SHOES MADE WHOLLY OF LEATHER. STEWART-DAWES SHOE CO., Los Angeles, Calif.
Filed January 18, 1928. Serial No. 260,297. PUBLISHED MAY 8, 1928. Class 39.

246,341. FELT HATS FOR WOMEN, UNTRIMMED. HENRY POLLAK, INC., New York, N. Y.
Filed January 18, 1928. Serial No. 260,289. PUBLISHED MAY 8, 1928. Class 39.

246,342. LEATHER OR FABRIC CHAIR SEATS AND CUSHIONS, CUSHIONS FOR VEHICLES AND BABY CARRIAGES, AND PICTURE AND MIRROR FRAMES. P. CENTEMERI & CO., New York, N. Y.
Filed January 14, 1928. Serial No. 260,097. PUBLISHED JUNE 26, 1928. Class 32.

246,343. HOSIERY. SAMUEL A. GOLDBERG, Chicago, Ill.
Filed April 9, 1928. Serial No. 264,578. PUBLISHED MAY 29, 1928. Class 39.

246,344. KRAUT JUICE IN CANS, BOTTLES, AND BULK. CAB-A-LAC COMPANY, Rochester, N. Y.
Filed April 9, 1928. Serial No. 264,556. PUBLISHED JUNE 19, 1928. Class 46.

246,345. PERFUMES AND TOILET WATERS. RALLET CORPORATION OF AMERICA, doing business as Degez, New York, N. Y.
Filed April 6, 1928. Serial No. 264,479. PUBLISHED JUNE 12, 1928. Class 6.

246,346. GENERAL TONIC. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,454. PUBLISHED JUNE 12, 1928. Class 6.

246,347. DINITROPHENYL DIMETHYL DITHIOCARBAMATE, A CHEMICAL FOR USE IN COMPOUNDING RUBBER. THE NAUGATUCK CHEMICAL COMPANY, New York, N. Y.
Filed April 5, 1928. Serial No. 264,382. PUBLISHED JUNE 12, 1928. Class 6.

246,348. SIRUPS AND CONCENTRATES FOR USE IN MAKING SOFT DRINKS. H. JACOB ZWEIFEL, doing business as Home-Ade Products Company, New Glarus, Wis.
Filed April 4, 1928. Serial No. 264,342. PUBLISHED JUNE 19, 1928. Class 45.

246,349. GENERAL RUSSIAN MINERAL OIL FOR MEDICINAL USE. C. S. LITTELL & CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,314. PUBLISHED JUNE 12, 1928. Class 6.

246,350. CANDY. HAND-SPUN CHOCOLATES, INC., Boston, Mass.
Filed April 4, 1928. Serial No. 264,302. PUBLISHED JUNE 19, 1928. Class 46.

246,351. PREPARATION FOR USE AS AN AID IN DYEING. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed April 3, 1928. Serial No. 264,222. PUBLISHED JUNE 12, 1928. Class 6.

246,352. SPRINKLERS, AUTOMATIC CONTROL VALVES, AND DRAIN VALVES. MUNZ SPRALAWN CORPORATION, Detroit, Mich.
Filed April 2, 1928. Serial No. 264,179. PUBLISHED JUNE 19, 1928. Class 13.

246,353. FOLDING BEDS, DAY BEDS, AND FOLDING COTS. COOPERSMITH BED COMPANY, St. Louis, Mo.
Filed April 2, 1928. Serial No. 264,149. PUBLISHED JUNE 26, 1928. Class 32.

246,354. ROUND LEATHER BELTING. WESTERN RAWHIDE & BELTING CO., Milwaukee, Wis.
Filed March 31, 1928. Serial No. 264,130. PUBLISHED JUNE 19, 1928. Class 35.

246,355. SELECTIVE MEDICINAL PREPARATION TAKEN INTERNALLY FOR PROMOTING THE GROWTH OF THE HAIR. PAUL A. THOMAS, Chicago, Ill.
Filed March 31, 1928. Serial No. 264,129. PUBLISHED JUNE 12, 1928. Class 6.

246,356. DRESS AND NEGLIGEE SHIRTS, PAJAMAS, AND NIGHTGOWNS. BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif.
Filed March 31, 1928. Serial No. 264,075. PUBLISHED MAY 15, 1928. Class 39.

246,357. CARBON PAPERS BOUND IN TIME-SAVING BINDERS. F. S. WEBSTER COMPANY, Boston, Mass.
Filed March 30, 1928. Serial No. 264,061. PUBLISHED JUNE 26, 1928. Class 11.

246,358. MATTRESSES, PILLOWS, BED SPRINGS, AND INNER-SPRING CONSTRUCTION FOR MATTRESSES AND CUSHIONS. AMERICAN MATTRESS WORKS INC., New Orleans, La.
Filed March 30, 1928. Serial No. 264,004. PUBLISHED JUNE 26, 1928. Class 32.

246,359. PANTS FOR MEN. BARNETT J. SMITH, doing business as Sunshine Clothing Mfg. Co., San Antonio, Tex.
Filed March 29, 1928. Serial No. 263,975. PUBLISHED MAY 15, 1928. Class 39.

246,360. GINGER ALE. KING OF CLUBS, INC., Newark, N. J.
Filed March 29, 1928. Serial No. 263,953. PUBLISHED JUNE 19, 1928. Class 45.

246,361. FRESH VEGETABLES. G. B. MUSANTE, San Jose and San Francisco, Calif.
Filed March 28, 1928. Serial No. 263,882. PUBLISHED JUNE 19, 1928. Class 46.

246,362. ANTISEPTIC SOLUTION. ERNEST H. RINGWALD, doing business as Zino-Septic Laboratories, Chillicothe, Ohio.
Filed March 27, 1928. Serial No. 263,830. PUBLISHED JUNE 5, 1928. Class 6.

246,363. DYNAMITE. ILLINOIS POWDER MFG. CO., St. Louis, Mo.
Filed May 21, 1928. Serial No. 266,733. PUBLISHED JUNE 26, 1928. Class 9.

246,364. PISTON RINGS. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind.
Filed May 4, 1928. Serial No. 265,927. PUBLISHED JUNE 19, 1928. Class 35.

246,365. FIBROUS SHEET PACKINGS. THE NEW JERSEY ASBESTOS COMPANY, New York, N. Y.
Filed May 4, 1928. Serial No. 265,917. PUBLISHED JUNE 19, 1928. Class 35.

246,366. CANDY. HAWLEY & HOOPS, New York, N. Y.
Filed May 4, 1928. Serial No. 265,903. PUBLISHED JUNE 26, 1928. Class 46.

246,367. SALTED PEANUTS. FLETCHER-WILSON COFFEE CO., Nashville, Tenn.
Filed May 4, 1928. Serial No. 265,896. PUBLISHED JUNE 19, 1928. Class 46.

246,368. HINGES. CHICAGO SPRING HINGE COMPANY, Chicago, Ill.
Filed May 4, 1928. Serial No. 265,888. PUBLISHED JUNE 19, 1928. Class 13.

246,369. RUGS OF WOOL FABRICS. SAMUEL BARUCHSON, doing business as Royal Ulster Rug Company, New York, N. Y.
Filed May 4, 1928. Serial No. 265,881. PUBLISHED JUNE 26, 1928. Class 42.

246,370. RUGS OF WOOL FABRICS. SAMUEL BARUCHSON, doing business as Royal Ulster Rug Company, New York, N. Y.
Filed May 4, 1928. Serial No. 265,880. PUBLISHED JUNE 26, 1928. Class 42.

246,371. DISHWASHING MACHINES. WHITE-BEAR CORPORATION, Indianapolis, Ind.
Filed May 3, 1928. Serial No. 265,868. PUBLISHED JUNE 19, 1928. Class 23.

246,372. GAS RANGES, COAL RANGES, AND COMBINATION COAL AND GAS RANGES. GREAT WESTERN STOVE CO., Leavenworth, Kans.
Filed May 3, 1928. Serial No. 265,888. PUBLISHED JUNE 26, 1928. Class 34.

246,373. CANDY. EDWARD R. WOOSTER, doing business as Honeyland Candy Shoppe, North Easton, Mass.
Filed May 2, 1928. Serial No. 265,821. PUBLISHED JUNE 19, 1928. Class 46.

246,374. SILK AND SILK AND COTTON AND SILK AND WOOL MIXTURE FABRICS IN THE PIECE. WECHSLER-BARBER SILK COMPANY, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,745. PUBLISHED JUNE 26, 1928. Class 42.

246,375. CIGARETTES. EMPIRE TOBACCO COMPANY, Atlanta, Ga.
Filed May 1, 1928. Serial No. 265,721. PUBLISHED JUNE 26, 1928. Class 17.

246,376. CANDY. ELGIN CHOCOLATE PRODUCTS CO., INC., Elgin, Ill.
Filed May 1, 1928. Serial No. 265,720. PUBLISHED JUNE 26, 1928. Class 46.

246,377. COFFEE. MAURY-COLE COMPANY, Memphis, Tenn.
Filed April 30, 1928. Serial No. 265,673. PUBLISHED JUNE 19, 1928. Class 46.

246,378. HYDRAULIC PRESSES. THE HYDRAULIC PRESS MANUFACTURING COMPANY, Mount Gilead, Ohio.
Filed April 30, 1928. Serial No. 265,650. PUBLISHED JUNE 26, 1928. Class 23.

246,379. HYDRAULIC PRESSES. THE HYDRAULIC PRESS MANUFACTURING COMPANY, Mount Gilead, Ohio.
Filed April 30, 1928. Serial No. 265,649. PUBLISHED JUNE 26, 1928. Class 23.

246,380. HYDRAULIC PRESSES. THE HYDRAULIC PRESS MANUFACTURING COMPANY, Mount Gilead, Ohio.
Filed April 30, 1928. Serial No. 265,648. PUBLISHED JUNE 26, 1928. Class 23.

246,381. COFFEE. BACON, STICKNEY & CO., INC., Albany, N. Y.
Filed April 30, 1928. Serial No. 265,610. PUBLISHED JUNE 19, 1928. Class 46.

246,382. FRESH ONIONS AND FRESH POTATOES. EMPIRE NAVIGATION COMPANY, Stockton, Calif.
Filed April 30, 1928. Serial No. 265,601. PUBLISHED JUNE 26, 1928. Class 46.

246,383. HOSIERY. MAY HOSIERY MILLS, INC., Burlington, N. C.
Filed February 25, 1928. Serial No. 262,238. PUBLISHED MAY 15, 1928. Class 39.

246,384. WIRE SCREENING. AMERICAN WIRE FABRICS CORPORATION, New York, N. Y.
Filed February 25, 1928. Serial No. 262,197. PUBLISHED JUNE 19, 1928. Class 13.

246,385. SHOE SOLES, LININGS WITHIN SHOES, AND SHOES, SAID SHOES BEING CONSTRUCTED OF LEATHER OR RUBBER OR FABRIC MATERIALS OR OF COMBINATIONS OF LEATHER, RUBBER, AND FABRIC MATERIALS. THE EPSTEIN BROTHERS SHOE COMPANY, Cleveland, Ohio.
Filed February 24, 1928. Serial No. 262,163. PUBLISHED MAY 8, 1928. Class 39.

246,386. BURNERS USING GAS, OIL, AND OTHER FUELS; FURNACES FOR BOTH LABORATORY AND INDUSTRIAL PURPOSES, PARTICULARLY ASSAY FURNACES, MELTING FURNACES, COAL-ASH FURNACES, FUSION TEST FURNACES, HEAT-TREATING FURNACES, OIL FORGE FURNACES, AND CLAY-TESTING FURNACES, AIR-BLAST VALVES, AND MUFFLES FOR FURNACES. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed February 24, 1928. Serial No. 262,158. PUBLISHED JUNE 26, 1928. Class 34.

246,387. CERTAIN NAMED WEARING APPAREL. N. CORAH & SONS, LIMITED, Leicester, England.
Filed February 24, 1928. Serial No. 262,154. PUBLISHED MAY 29, 1928. Class 39.

246,388. INFANTS' AND CHILDREN'S FABRIC AND KNITTED CAPS, HATS, AND BONNETS. B. ABRAMSON & BRO., New York, N. Y.
Filed February 24, 1928. Serial No. 262,142. PUBLISHED MAY 22, 1928. Class 39.

246,389. COMBINATION RUBBER AND LEATHER HEEL PAD FOR SHOES, SLIPPERS, AND PUMPS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed February 23, 1928. Serial No. 262,127. PUBLISHED MAY 22, 1928. Class 39.

246,390. BATHING SUITS. MADELON MODES, INC., New York, N. Y.
Filed February 23, 1928. Serial No. 262,102. PUBLISHED MAY 15, 1928. Class 39.

246,391. WOMEN'S AND CHILDREN'S DRESSES, SMOCKS, AND KNITTED AND TEXTILE UNDERWEAR. GOLDIE MAID GARMENT CO., Los Angeles, Calif.
Filed February 23, 1928. Serial No. 262,077. PUBLISHED MAY 8, 1928. Class 39.

246,392. LEATHER AND LEATHERETTE GOODS—NAMELY, CAPS FOR MEN, WOMEN, AND CHILDREN. EAGLE KNITTING MILLS, Milwaukee, Wis.
Filed February 23, 1928. Serial No. 262,068. PUBLISHED MAY 29, 1928. Class 39.

246,393. FRESH PINEAPPLE, GRAPEFRUIT, ORANGES, AND COCOANUTS AND CANNED PINEAPPLE AND GRAPEFRUIT. DEL RIO PLANTATIONS, INC., Bayamon, P. R., and Orange, Mass.
Filed February 23, 1928. Serial No. 262,066. PUBLISHED MAY 8, 1928. Class 46.

246,394. CORSETS, BRASSIÈRES, GIRDLES, AND WOMEN'S UNDERWEAR OF KNITTED AND TEXTILE FABRICS. MME. BINNER, New York, N. Y.
Filed February 21, 1928. Serial No. 262,017. PUBLISHED MAY 8, 1928. Class 39.

246,395. SMOKED, PICKLED, AND RAW TONGUE; CORNED BEEF, ROAST BEEF, BOLOGNA, FRANKFURTS, PASTROMI, LIVERWURST, SALAMI, NOT IN CANS, AND CHICKEN SALAMI. BARNET BRODIE, INC., Brooklyn, N. Y.
Filed February 21, 1928. Serial No. 262,015. PUBLISHED JUNE 19, 1928. Class 46.

246,396. ALTERNATIVE GENERAL TONICS AND LAXATIVES. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,489. PUBLISHED JUNE 12, 1928. Class 6.

246,397. ALTERNATIVE GENERAL TONICS AND LAXATIVES. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,488. PUBLISHED JUNE 12, 1928. Class 6.

246,398. PREPARATION FOR THE RELIEF OF INDIGESTION. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,487. PUBLISHED JUNE 12, 1928. Class 6.

246,399. HOSIERY. KNOXVILLE KNITTING MILLS CO., Knoxville, Tenn., and New York, N. Y.
Filed March 20, 1928. Serial No. 263,477. PUBLISHED MAY 8, 1928. Class 39.

246,400. HOSIERY. FISHER & SCHIMMEL, New York, N. Y.
Filed March 20, 1928. Serial No. 263,466. PUBLISHED MAY 8, 1928. Class 39.

246,401. MEN'S AND CHILDREN'S UNDERWEAR AND NIGHTWEAR—NAMELY, UNION SUITS, DRAWERS, NIGHTSHIRTS, AND PAJAMAS MADE OF WOVEN TEXTILES. SEXTON MANUFACTURING COMPANY, Fairfield, Ill.
Filed March 19, 1928. Serial No. 263,431. PUBLISHED MAY 29, 1928. Class 39.

246,402. SHRIMP COCKTAIL IN GLASS JARS. JOSEPH MICHEL & Co., New Orleans, La.
Filed March 19, 1928. Serial No. 263,411. PUBLISHED JUNE 19, 1928. Class 46.

246,403. CRAVATS AND MUFFLERS FOR MEN. SMITH BROTHERS IMPORTERS INC., New York, N. Y.
Filed March 17, 1928. Serial No. 263,354. PUBLISHED MAY 29, 1928. Class 39.

246,404. PIECE GOODS MANUFACTURED FROM COTTON, WOOL, LINEN, RAMIE, SILK, AND ARTIFICIAL SILK FIBER AND COMBINATIONS OF THE SAME. S. SLATER AND SONS, INC., Webster, Mass.
Filed March 17, 1928. Serial No. 263,353. PUBLISHED JUNE 19, 1928. Class 42.

246,405. LEATHER GLOVES. PERRIN GLOVE COMPANY, INC., New York, N. Y.
Filed March 17, 1928. Serial No. 263,343. PUBLISHED MAY 15, 1928. Class 39.

246,406. READY-MADE DRESSES AND APRONS FOR THE USE OF WOMEN, MISSES, AND CHILDREN. PERFECTION GARMENT COMPANY, Martinsburg, W. Va.
Filed March 17, 1928. Serial No. 263,341. PUBLISHED MAY 22, 1928. Class 39.

246,407. SMOKER'S STAND USED ON A TABLE CONTAINING AN ATTACHED GASOLINE CIGARETTE LIGHTER. ABRAHAM LEAF, Woodhaven, N. Y.
Filed March 17, 1928. Serial No. 263,322. PUBLISHED JUNE 19, 1928. Class 8.

246,408. RAYON AND COTTON PIECE GOODS. SEEKENEP SILK COMPANY, New York, N. Y.
Filed March 16, 1928. Serial No. 263,290. PUBLISHED JUNE 26, 1928. Class 42.

246,409. RAYON AND SILK PIECE GOODS. SEEKENEP SILK COMPANY, New York, N. Y.
Filed March 16, 1928. Serial No. 263,289. PUBLISHED JUNE 26, 1928. Class 42.

246,410. BOYS' AND YOUTHS' SUITS AND OVERCOATS. ALEXANDER NAVASKY, doing business as The Sturdibilt Co., New York, N. Y.
Filed March 16, 1928. Serial No. 263,278. PUBLISHED MAY 22, 1928. Class 39.

246,411. MISSES' SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa.
Filed March 15, 1928. Serial No. 263,242. PUBLISHED MAY 15, 1928. Class 39.

246,412. METALLIC OXIDES AND SALTS AND ESPECIALLY OXIDES AND SALTS OF VANADIUM, MOLYBDENUM, TUNGSTEN, CHROMIUM, TITANIUM, ZIRCONIUM, CADMIUM, URANIUM, COBALT, NICKEL, AND MANGANESE. VANADIUM CORPORATION OF AMERICA, Bridgeville, Pa.
Filed March 15, 1928. Serial No. 263,239. PUBLISHED JUNE 5, 1928. Class 6.

246,413. CHEMICAL PREPARATION FOR USE IN COMPOUNDING RUBBER. THE NAUGATUCK CHEMICAL COMPANY, New York, N. Y.
Filed March 14, 1928. Serial No. 263,173. PUBLISHED JUNE 12, 1928. Class 6.

246,414. ALUMINUM WARE—NAMELY, COOKERS, DUTCH OVENS, FRY PANS, SKILLETS, SAUCEPANS, STRAIGHT-SIDE PANS, COVERED PANS, LIPPED PANS, BAKING PANS, TRIPLE SAUCEPANS, CONVEX PANS, ROASTING PANS, ROASTERS, CONVEX KETTLES, CONVEX POTS, STEAMERS, STRAINER KETTLES, STRAIGHT-SIDE POTS, AND STRAINER PANS. ALUMINUM GOODS MANUFACTURING CO., Manitowoc, Wis.
Filed March 14, 1928. Serial No. 263,121. PUBLISHED JUNE 26, 1928. Class 13.

246,415. LOTION FOR BEAUTIFYING AND IMPROVING THE SKIN AND COMPLEXION. FERDINAND T. HOPKINS, doing business as Ferd. T. Hopkins & Son, New York, N. Y.
Filed March 13, 1928. Serial No. 263,084. PUBLISHED JUNE 12, 1928. Class 6.

246,416. VITAMIN CONCENTRATES FOR USE IN MEDICINE AND PHARMACY. LEVER BROTHERS, LIMITED, Port Sunlight, England.
Filed March 1, 1928. Serial No. 262,472. PUBLISHED JUNE 12, 1928. Class 6.

246,417. HOSIERY. GUSTAVE BRENNER, San Francisco, Calif.
Filed March 2, 1928. Serial No. 262,506. PUBLISHED MAY 22, 1928. Class 39.

246,418. LIQUID PREPARATION USED IN THE TREATMENT OF BURNS, SORES, AND CUTS. Mrs. L. BUTH & SON, Lockney, Tex.
Filed March 1, 1928. Serial No. 262,442. PUBLISHED JUNE 12, 1928. Class 6.

246,419. LADIES' SILK AND RAYON TEXTILE UNDERWEAR. PROGRESSIVE UNDERWEAR CO., New York, N. Y.
Filed February 29, 1928. Serial No. 262,412. PUBLISHED MAY 15, 1928. Class 39.

246,420. REDUCING CREAM. O-SLEND-O, INCORPORATED, HOLLYWOOD, Hollywood, Los Angeles, Calif.
Filed February 28, 1928. Serial No. 262,377. PUBLISHED JUNE 5, 1928. Class 6.

246,421. OVERALLS, WORK PANTS, AND WORK SHIRTS. BARROW MANUFACTURING COMPANY, Winder, Ga.
Filed February 27, 1928. Serial No. 262,284. PUBLISHED MAY 8, 1928. Class 39.

246,422. CORSETS, BRASSIÈRES, GIRDLES. REGAL BRASSIERE COMPANY, INC., New York, N. Y.
Filed February 25, 1928. Serial No. 262,259. PUBLISHED MAY 15, 1928. Class 39.

246,423. RAZORS AND SHEARS. E. MORRIS MFG. CO., Detroit, Mich.
Filed March 9, 1928. Serial No. 262,865. PUBLISHED JUNE 26, 1928. Class 23.

246,424. RAZORS AND SHEARS. E. MORRIS MFG. CO., Detroit, Mich.
Filed March 9, 1928. Serial No. 262,864. PUBLISHED JUNE 20, 1928. Class 23.

246,425. LAUNDRY WASHING MACHINES. WOODROW WASHING MACHINE COMPANY, Pella, Iowa.
Filed March 8, 1928. Serial No. 262,837. PUBLISHED JUNE 19, 1928. Class 24.

246,426. HOSIERY. THE WINDSOR MILLS, INC., Philadelphia, Pa.
Filed March 8, 1928. Serial No. 262,836. PUBLISHED MAY 29, 1928. Class 39.

246,427. HOSIERY. THE WINDSOR MILLS, INC., Philadelphia, Pa.
Filed March 8, 1928. Serial No. 262,835. PUBLISHED MAY 29, 1928. Class 39.

246,428. DRESSES FOR WOMEN AND CHILDREN, NOT MADE OF KNITTED MATERIAL. TRIPPE, BARKER & Co., New York, N. Y.
Filed March 8, 1928. Serial No. 262,827. PUBLISHED MAY 29, 1928. Class 39.

246,429. DRESSES FOR WOMEN AND CHILDREN. WM. SIMPSON, SONS & Co., Philadelphia, Pa.
Filed March 8, 1928. Serial No. 262,823. PUBLISHED MAY 15, 1928. Class 39.

246,430. MEN'S AND BOYS' CLOTHING—NAMELY, MACKINAWS, OVERCOATS, STOCKINGS, WOOLEN SHIRTS FOR OUTER WEAR, AND SWEATERS. PENDLETON WOOLEN MILLS, Portland, Oreg.
Filed March 8, 1928. Serial No. 262,816. PUBLISHED MAY 29, 1928. Class 39.

246,431. LINIMENT FOR EXTERNAL APPLICATION FOR TREATMENT OF INFLAMMATION AND CONGESTIONS OF CHEST AND HEAD, SPRAINS, RHEUMATISM, AND FOR ATHLETIC RUB DOWN. LIQUO-RUB LABORATORIES, Los Angeles, Calif.
Filed March 8, 1928. Serial No. 262,812. PUBLISHED JUNE 5, 1928. Class 6.

246,432. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. ROSEKNIT HOSIERY COMPANY, Sumter, S. C.
Filed March 10, 1928. Serial No. 262,934. PUBLISHED MAY 29, 1928. Class 39.

246,433. SWIMMING SUITS. ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y.
Filed March 10, 1928. Serial No. 262,890. PUBLISHED MAY 1, 1928. Class 39.

246,434. RAZORS AND SHEARS. E. MORRIS MFG. CO., Detroit, Mich.
Filed March 9, 1928. Serial No. 262,866. PUBLISHED JUNE 26, 1928. Class 23.

246,435. PIECE GOODS MANUFACTURED FROM COTTON, WOOL, LINEN, RAMIE, SILK, AND ARTIFICIAL SILK FIBRES AND COMBINATIONS OF THE SAME. S. SLATER AND SONS, INC., Webster, Mass.
Filed March 10, 1928. Serial No. 262,973. PUBLISHED JUNE 19, 1928. Class 42.

246,436. LIQUID PREPARATION FOR TREATING SCALP CONDITIONS. PORTE M. BRADLEY, doing business as Liquid Hair Remedy Co., Joplin, Mo.
Filed March 12, 1928. Serial No. 263,026. PUBLISHED JUNE 12, 1928. Class 6.

246,437. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed March 12, 1928. Serial No. 263,025. PUBLISHED MAY 29, 1928. Class 39.

246,438. SHOES CONSTRUCTED OF COMBINATIONS OF LEATHER, RUBBER, AND FABRIC. SENACK SHOE COMPANY, St. Louis, Mo.
Filed March 12, 1928. Serial No. 263,015. PUBLISHED MAY 15, 1928. Class 39.

246,439. DRESS, NEGLIGEE, AND WORK SHIRTS FOR MEN AND BOYS. WIDE AWAKE SHIRT COMPANY INC., Reading, Pa.
Filed March 10, 1928. Serial No. 262,990. PUBLISHED MAY 22, 1928. Class 39.

246,440. MEN'S AND BOYS' CAPS AND STRAW AND FELT HATS. J. GINSBERG & SONS, New York, N. Y.
Filed March 13, 1928. Serial No. 263,061. PUBLISHED MAY 29, 1928. Class 39.

246,441. NECKTIES, CRAVATS, AND SCARFS. FRANK & MEYER NECKWEAR COMPANY, St. Louis, Mo.
Filed March 12, 1928. Serial No. 263,039. PUBLISHED MAY 15, 1928. Class 39.

246,442. NECKTIES, CRAVATS, AND SCARFS. FRANK & MEYER NECKWEAR CO., St. Louis, Mo.
Filed March 12, 1928. Serial No. 263,038. PUBLISHED MAY 15, 1928. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

246,443. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAFOE CHEMICAL LABORATORIES, INC., Tacoma, Wash. Filed June 8, 1928. Serial No. 267,701.

Dafoe

For Antiseptic Fly Spray and Household Bleacher.
Claims use since Oct. 30, 1926.

246,444. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BREWER & COMPANY, INC., Worcester, Mass. Filed June 8, 1928. Serial No. 267,690.

LAXATIVE
PHOSPHO QUININE

For Internal Remedy for the Treatment of Various Colds, Bronchial Troubles, Grippe, Catarrh, Neuralgia, Malarial Troubles, Chills, Fevers, and Laxative for Accompanying Colds.
Claims use since March, 1900.

246,445. (CLASS 12. CONSTRUCTION MATERIALS.) JOSEPH W. WOOLLEY, Columbus, Ohio. Filed May 29, 1928. Serial No. 267,180.

BELGIAN WALL TILE

For Enamelled Zinc Plates.
Claims use since June 1, 1924.

246,446. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES W. SHOEMAKER, Centralia, Wash. Filed Apr. 13, 1928. Serial No. 264,780.

KILL WEED

For Combination of Chemicals for Eradicating Canada Thistles and Other Noxious Weeds.
Claims use since on or about Mar. 31, 1925.

246,447. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ANIMAL TRAP COMPANY OF AMERICA, Lititz, Pa. Filed Nov. 15, 1927. Serial No. 257,572.

SAFETY-SET

For Rat Traps.
Claims use since Nov. 9, 1926.

246,448. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ITALIAN VINEYARD CO., Guasti and Los Angeles, Calif. Filed Sept. 7, 1927. Serial No. 254,456.

GUASTI

For a General Tonic Having a Wine Base.
Claims use since July 11, 1927.

246,449. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARDWICK & MAGEE COMPANY, Philadelphia, Pa. Filed Aug. 22, 1927. Serial No. 253,803.

VERNON

For Textile Carpets.
Claims use since July 22, 1927.

246,450. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HENRY ROSENBERG, New York, N. Y. Filed Aug. 6, 1927. Serial No. 253,163.

NIPPON-BEAVER

For Beaver Fur Pelts.
Claims use since July 21, 1927.

246,451. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOHN ALUMINUM & BRASS CORPORATION, Detroit, Mich. Filed July 6, 1927. Serial No. 251,537.

STRUTYPE PISTON

For Pistons for Internal-Combustion Engines, Diesel Engines, Steam Engines, Air Engines, Fluid Motors, and Pumps.
Claims use since June 13, 1927.

246,452. (CLASS 39. CLOTHING.) THE PIONEER SHOE MANUFACTURING COMPANY, Kansas City, Mo. Filed June 10, 1927. Serial No. 250,322.

PROPR-BILT

For Leather Shoes and Boots.
Claims use since May 1, 1927.

246,453. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSE APPELBAUM, Brooklyn, N. Y. Filed Mar. 21, 1927. Serial No. 246,064.

Lucille Savoy

For Cosmetics—Namely, Face and Baby Powders, Face Rouge, Lip Rouge, Toilet Water, Perfumes, Cold Creams, Face Creams, Hair Tonic, Vanishing Creams, Nail Creams, and Nail Polishes.
Claims use since January, 1916.

246,454. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES LEE ADAMS, doing business as Adams Bakery, Los Angeles, Calif. Filed July 18, 1928. Serial No. 269,757.

"That Good Bread"

For Bread.
Claims use since Sept. 1, 1920.

246,455. (CLASS 39. CLOTHING.) SOUTHLAND MANUFACTURING COMPANY, Wilmington, N. C. Filed June 22, 1928. Serial No. 268,519.

Cantfade

For Dress, Negligee, and Work Shirts; Blouses; Underwear of Knitted and Textile Fabric for Men, Women, and Children; and Pajamas.
Claims use since June 29, 1928.

246,456. (CLASS 39. CLOTHING.) PERKINS DRY GOODS COMPANY, Dallas, Tex. Filed June 20, 1928. Serial No. 268,387.

RIDGEWAY

For Men's and Boys' Dress Clothing—Namely, Two and Three Piece Suits, Trousers, and Vests, and Overalls, Work Shirts, Knit Underwear, and Dress Shirts.
Claims use since February, 1927.

246,457. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GIUSEPPE MONTAPERTO, Brooklyn, N. Y. Filed June 5, 1928. Serial No. 267,501.

"STROMBOLI"

For Food Products—Namely, Canned Fruits, Canned Vegetables, Canned Fish, Canned Tomatoes, Canned Tomato Paste, Cereal Breakfast Foods, Coffee, and Tea.
Claims use since Mar. 3, 1925.

246,458. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PENN ELECTRIC SWITCH COMPANY, Des Moines, Iowa. Filed May 21, 1928. Serial No. 266,743.

PENN

For Automatic Electric Switches, Particularly Pressure-Operated, Float-Operated, Vacuum-Operated, and Temperature-Operated Switches.
Claims use since about 1919.

246,459. (CLASS 15. OILS AND GREASES.) GASH-STULL COMPANY, Chester, Pa. Filed May 7, 1928. Serial No. 266,027.

Gash-Stull

For Lubricating Oils and Greases.
Claims use since about March, 1925.

246,460. (CLASS 39. CLOTHING.) B. NUGENT & BRO. D. G. Co., St. Louis, Mo. Filed May 4, 1928. Serial No. 265,922.

Roger Kent

For Men's and Boys' Clothing—Namely, Two and Three Piece Suits, Coats, Vests, Trousers, and Overcoats.
Claims use since about Apr. 28, 1926.

246,461. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PENDLETON WOOLEN MILLS, Portland, Oreg. Filed Apr. 23, 1928. Serial No. 265,291.

HARDING

For Woolen Blankets.
Claims use since January, 1923.

246,462. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) C. J. ANDERSON & CO., Chicago, Ill. Filed Feb. 13, 1928. Serial No. 261,603.

C. J. Anderson & Co.

For Electric Controllers for Motors, Automatic Starters and Control Devices for Motors, Electrical Switches, Hatchway Junction Boxes, Brake Magnets, Floor Selectors, Push-Button Stations, and Door Interlocks for Such Motors and Starters.
Claims use since 1911.

246,463. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIDNEY N. AMSTER, Cleveland Heights, Ohio. Filed Oct. 18, 1927. Serial No. 256,238.

KLING

For a Dental Powder for Holding False Teeth Securely and Comfortably in the Mouth, for Easing Sore and Aching Gums, and for Keeping the Mouth and Breath Sweet.
Claims use since June 12, 1927.

246,464. (CLASS 39. CLOTHING.) EPSTEIN FRANK & LOCHNER INC., Buffalo, N. Y. Filed Aug. 4, 1927. Serial No. 253,017.

LANGLEY CLOTHES

For Men's and Young Men's Suits and Overcoats.
Claims use since June 28, 1927.

246,465. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WURLITZER GRAND PIANO COMPANY, De Kalb, Ill. Filed July 25, 1927. Serial No. 252,538.

"The Piano that Plays for You"

For Grand and Upright Pianos, Player Pianos, and Piano Players.
Claims use since June 8, 1927.

246,466. (CLASS 39. CLOTHING.) HIGGINBOTHAM-BAILEY-LOGAN COMPANY, Dallas, Tex., and New York, N. Y. Filed July 13, 1927. Serial No. 251,906.

DARTMOUTH

For Men's Suits and Overcoats.
Claims use since June 14, 1927.

246,467. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PHILIP S. JUDY, doing business as The Air Made Well Co., Oklahoma City, Okla. Filed July 5, 1927. Serial No. 251,506.

AIR MADE WELLS

For Well Equipment—Namely, Air-Lift Well Pumps and Air-Lift Well Systems Sold as a Unit.
Claims use since about Mar. 1, 1925.

246,468. (CLASS 39. CLOTHING.) MARION FARMER LAWLESS, doing business as Marion Farmer Silk Hosiery, Syracuse, N. Y. Filed Apr. 19, 1927. Serial No. 247,696.

Marion Farmer

For Hosiery.
Claims use since Jan. 1, 1927.

246,469. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) M. J. WOHL & CO., INC., Long Island City, N. Y. Filed Mar. 26, 1927. Serial No. 246,455.

CAMERALITE

For Electric-Arc Lamps.
Claims use since Feb. 28, 1927.

TRADE-MARK REGISTRATIONS RENEWED

31,466. PLOWS AND THEIR PARTS. Registered April 12, 1898. SYRACUSE CHILLED PLOW CO. Renewed April 12, 1928, to Syracuse Chilled Plow Co. Inc., Syracuse, N. Y., a Corporation of New York, assignee.

32,455. CYCLES. Registered January 31, 1899. RUDGE-WHITWORTH LIMITED, Coventry, England, a Corporation of Great Britain. Renewed January 31, 1920.

32,457. WINDMILLS. Registered January 31, 1899. STOVER MANUFACTURING COMPANY. Renewed January 31, 1929, to Stover Manufacturing & Engine Co., Freeport, Ill., a Corporation of Illinois, successor.

32,458. FEED MILLS. Registered January 31, 1899. STOVER MANUFACTURING COMPANY. Renewed January 31, 1929, to Stover Manufacturing & Engine Co., Freeport, Ill., a Corporation of Illinois, successor.

32,459. HORSEPOWERS. Registered January 31, 1899. STOVER MANUFACTURING COMPANY. Renewed January 31, 1929, to Stover Manufacturing & Engine Co., Freeport, Ill., a Corporation of Illinois, successor.

32,460. SPRING HINGES. Registered January 31, 1899. STOVER MANUFACTURING COMPANY. Renewed January 31, 1929, to Stover Manufacturing & Engine Co., Freeport, Ill., a Corporation of Illinois, successor.

69,592. REMEDIES FOR CERTAIN DISEASES. Registered June 23, 1908. THE NATIONAL HERB COMPANY, Washington, D. C., a Corporation of Delaware. Renewed June 23, 1928.

70,217. LUBRICATING GREASE. Registered August 11, 1908. THE CINCINNATI OIL WORKS COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed August 11, 1928.

70,220. ALE, BEER, AND PORTER. Registered August 11, 1908. CONSUMERS BREWING COMPANY. Renewed August 11, 1928, to Penn Beverage Company, Philadelphia, Pa., a Corporation of New Jersey, assignee.

70,237. LUBRICATING OIL. Registered August 11, 1908. THE CINCINNATI OIL WORKS COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed August 11, 1928.

70,239. CERTAIN TOOLS. Registered August 11, 1908. THOMAS RICHARDSON ELLIN. Renewed August 11, 1928, to Thos. R. Ellin (Footprint Works,) Ltd., Sheffield, England, a Corporation of Great Britain, assignee.

70,240. CERTAIN TOOLS. Registered August 11, 1908. THOMAS RICHARDSON ELLIN. Renewed August 11, 1928, to Thos. R. Ellin (Footprint Works.) Ltd., Sheffield, England, a Corporation of Great Britain, assignee.

70,255. ELECTRIC AND GALVANIC CARBONS. Registered August 18, 1908. C. CONRADTY, Nuernberg, Germany. Renewed August 18, 1928.

70,697. WHEAT FLOUR. Registered September 22, 1908. THE WATERLOO & CEDAR FALLS UNION MILL COMPANY. Renewed September 22, 1928, to Waterloo Mills Company, Waterloo, Iowa, a Corporation of Iowa, assignee.

70,852. A REMEDY FOR CERTAIN DISEASES. Registered October 13, 1908. RICHARD RAY, doing business as Emerson Medicine Company, Kansas City, Mo. Renewed October 13, 1928.

70,878. ILLUMINATING AND LUBRICATING OILS AND GREASES. Registered October 13, 1908. GALENA-SIGNAL OIL CO., Franklin, Pa., a Corporation of Pennsylvania. Renewed October 13, 1928.

70,882. HANDKERCHIEFS. Registered October 13, 1908. THE INTERNATIONAL MANUFACTURING CO. Renewed October 13, 1928, to The International Handkerchief Manufacturing Company, New York, N. Y., a Corporation of New York, successor.

70,883. HANDKERCHIEFS. Registered October 13, 1908. THE INTERNATIONAL MANUFACTURING CO. Renewed October 13, 1928, to The International Handkerchief Manufacturing Company, New York, N. Y., a Corporation of New York, successor.

70,884. HANDKERCHIEFS. Registered October 13, 1908. THE INTERNATIONAL MANUFACTURING CO. Renewed October 13, 1928, to The International Handkerchief Manufacturing Company, New York, N. Y., a Corporation of New York, successor.

70,885. HANDKERCHIEFS. Registered October 13, 1908. THE INTERNATIONAL MANUFACTURING CO. Renewed October 13, 1928, to The International Handkerchief Manufacturing Company, New York, N. Y., a Corporation of New York, successor.

70,886. HANDKERCHIEFS. Registered October 13, 1908. THE INTERNATIONAL MANUFACTURING CO. Renewed October 13, 1928, to The International Handkerchief Manufacturing Company, New York, N. Y., a Corporation of New York, successor.

71,021. COLLARS AND CUFFS MADE OF TEXTILE MATERIAL. Registered October 27, 1908. HALL, HARTWELL & Co. Renewed October 27, 1928, to Hall, Hartwell & Co. Inc., Troy, N. Y., a Corporation of New York, assignee.

71,022. OUTER SHIRTS, COLLARS, AND CUFFS. Registered October 27, 1908. HALL, HARTWELL & Co. Renewed October 27, 1928, to Hall, Hartwell & Co. Inc., Troy, N. Y., a Corporation of New York, assignee.

71,267. A SEMISOLID TOILET PREPARATION. Registered November 10, 1908. HENRY SOLOMON WELLCOME, London, England. Renewed November 10, 1928, to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

71,287. CERTAIN OILS, GREASES, AND PETROLEUM PRODUCTS. Registered November 17, 1908. DAIMLER-MOTOREN-GESELLSCHAFT, Unterturkheim, Germany. Renewed November 17, 1928, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a Corporation of Germany, by change of name.

71,331. CERTAIN HEATING AND LIGHTING APPARATUS. Registered November 17, 1908. DAIMLER-MOTOREN-GESELLSCHAFT, Unterturkheim, near Stuttgart, Germany. Renewed November 17, 1928, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a Corporation of Germany, by change of name.

71,360. CERTAIN CHEMICALS. Registered November 17, 1908. THE KRETOL COMPANY, Washington, D. C., a Corporation of Delaware. Renewed November 17, 1928.

71,460. PHOTOGRAPHIC DEVELOPERS AND PHOTOGRAPHIC ACCELERATORS. Registered November 24, 1908. HENRY SOLOMON WELLCOME, London, England. Renewed November 24, 1928, to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

71,606. BEER, BROWN STOUT, PORTER, AND MALT EXTRACT. Registered December 1, 1908. THE STROH BREWERY COMPANY. Renewed December 1, 1928, to The Stroh Products Co., Detroit, Mich., a Corporation of the Territory of Arizona, now the State of Arizona, successor.

71,782. STOGIES. Registered December 15, 1908. M. MARSH & SON, Wheeling, W. Va., a Corporation of West Virginia. Renewed December 15, 1928.

71,811. CERTAIN FOODS. Registered December 15, 1908. H. F. HEMINGWAY & Co., Baltimore, Md., a Corporation of New York. Renewed December 15, 1928.

71,831. DYED COTTON PIECE GOODS. Registered December 15, 1908. THE MILLVILLE MANUFACTURING COMPANY, Philadelphia, Pa., a Corporation of New Jersey. Renewed December 15, 1928.

71,944. GRAIN-BINDING HARVESTERS AND FRONT-CUT GRASS MOWERS. Registered December 22, 1908. INTERNATIONAL HARVESTER COMPANY OF AMERICA. Renewed December 22, 1928, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey, assignee.

72,048. BEER. Registered December 29, 1908. M. B. FOSTER & SONS, LIMITED. Renewed December 29, 1928, to M. B. Foster & Sons, Limited, London, England, a Corporation of Great Britain, assignee.

72,126. WORK, NEGLIGEE, AND DRESS SHIRTS. Registered January 5, 1909. BYRNE & HAMMER DRY GOODS Co., Omaha, Nebr., a Corporation of Nebraska. Renewed January 5, 1929.

72,178. CLOCKS AND WATCHES. Registered January 5, 1909. THE WESTERN CLOCK MFG. CO. Renewed January 5, 1929, to Western Clock Company, La Salle, Ill., a Corporation of Illinois, assignee.

72,345. WATERPROOF TEXTILE OILED FABRICS. Registered January 19, 1909. A. J. TOWER COMPANY, Portland, Me., and Boston, Mass. Renewed January 19, 1929, to A. J. Tower Company, Boston, Mass., a Corporation of Massachusetts, assignee.

72,349. WATCHES AND PARTS THEREOF. Registered January 19, 1909. ANCIENNE MANUFACTURE D'HORLOGERIE, PATEK, PHILIPPE ET CO., SOCIÉTÉ ANONYME. Geneva, Switzerland, a Corporation of Switzerland. Renewed January 19, 1929.

72,362. TRADE PERIODICALS. Registered January 19, 1909, to GOLDSCHMIDT THERMIT COMPANY, New York, N. Y., a Corporation of New York. Renewed January 19, 1929.

72,386. COTTON WASTE. Registered January 19, 1909. RIVERSIDE MILLS, Augusta, Ga., a Corporation of Georgia. Renewed January 19, 1929.

72,387. COTTON WASTE. Registered January 19, 1909. RIVERSIDE MILLS, Augusta, Ga., a Corporation of Georgia. Renewed January 19, 1929.

72,408. CUTTER AND MATCHER HEADS. Registered January 26, 1909. SAMUEL J. SHIMER & SONS, INC., Milton, Pa., a Corporation of Pennsylvania. Renewed January 26, 1929.

72,420. BELT DRESSING. Registered January 26, 1909. CHAS. A. SCHIEREN COMPANY, New York, N. Y., and Bristol, Tenn., a Corporation of New York. Renewed January 26, 1929.

72,441. FISHHOOK FLIES. Registered January 26, 1909. THE WHITNEY SPORTING GOODS COMPANY, Denver, Colo., a Corporation of Colorado. Renewed January 26, 1929.

LABELS

REGISTERED SEPTEMBER 4, 1928.

34,513.—*Title:* ACE CLEANER CLEANS EVERYTHING. For Preparation for General Cleaning. ACE MANUFACTURING CO., Portland, Me. Published July 16, 1928.

34,514.—*Title:* SIGARI FIUME. For Cigars. GIUSEPPE ALFIERI, New York, N. Y. Published June 15, 1924.

34,515.—*Title:* SUN-TEX. For a Textile Product Which Promotes Growth. ALLEN BROTHERS INC., Omaha, Nebr. Published July 2, 1928.

34,516.—*Title:* SAVAPOWR GEAR LUBRICANT. For Gear Lubricant. AMERICAN OIL CORPORATION, Jackson, Mich. Published January 28, 1927.

34,517.—*Title:* SAVAPOWR HI-PRESSURE LUBRICANT. For High-Pressure Lubricant. AMERICAN OIL CORPORATION, Jackson, Mich. Published January 28, 1927.

34,518.—*Title:* SAVAPOWR MOTOR OIL. For Motor Oil. AMERICAN OIL CORPORATION, Jackson, Mich. Published January 28, 1927.

34,519.—*Title:* BADGER. For Ice Cream. BADGER ICE CREAM COMPANY, Kenosha, Wis. Published May 20, 1928.

34,520.—*Title:* ED-U-GAME. For Educational Toys. SUSAN MERIWETHER BOOGHER, Strafford, Pa. Published June 15, 1928.

34,521.—*Title:* ALL PURPOSE MOUNT. For Mounts for X-Ray Films Used in Dental Surgery. EDWARD P. CRESSLER, Newton, Kans. Published July 28, 1928.

34,522.—*Title:* NABORHOOD. For Macaroni and Similar Alimentary Food Products. FEESER MACARONI COMPANY, Harrisburg, Pa. Published June 1, 1928.

34,523.—*Title:* THE LAST WORD IN A POWDER-PUFF. For Powder Puffs. CLEMENCE FRANCK, San Francisco, Calif. Published April 5, 1928.

34,524.—*Title:* PANDORA STOCKINGS. For Hosiery. THE JOHN M. GIVEN COMPANY, New York, N. Y.; Chicago, Ill.; and Pittsburgh, Pa. Published July 20, 1928.

34,525.—*Title:* THE INVISIBLE ADJUSTABLE. For Linings for Caps for Men, Boys, and Children. GREENSTEIN & JOSEPHSON, New York, N. Y. Published July 20, 1928.

34,526.—*Title:* HEART OF AMERICA. For Ginger Ale. HEKELNKAEMPER BROS., Atchison, Kans. Published May 19, 1928.

34,527.—*Title:* VALLEY VISTA. For Fresh Oranges. HILLSIDE PACKING ASSOCIATION, Lindsay, Calif. Published March 22, 1928.

34,528.—*Title:* STURUP. For Chocolate Malted Powder. FREDERICK W. HUBER, INC., New York, N. Y. Published July 16, 1928.

34,529.—*Title:* V-O-G. For Eggs. LA BREA SECURITIES CO., Los Angeles, Calif. Published May 9, 1928.

34,530.—*Title:* LUCAS BLUE & GOLD. For Fresh Grapes. LUCAS RANCHING COMPANY, Cucamonga, Calif. Published March 29, 1928.

34,531.—*Title:* RED CIRCLE CANDY CO. WHITE TOWER ASSORTED CHOCOLATES. For Candy. THE MILWAUKEE PAPER BOX CO., Milwaukee, Wis. Published June 20, 1928.

34,532.—*Title:* STOP-A-LEAK. For Roof Coating. MINERAL-LAC PAINT CO., INC., Philadelphia, Pa. Published May 22, 1928.

34,533.—*Title:* CLEAN UP CLEANSER. For Cleansing Powder. FRANK NACK, Jr., doing business as Nack Manufacturing Company, Ferguson, Mo. Published February 1, 1928.

34,534.—*Title:* SAVON NANNT FOR THE WOMAN WHO CAN AFFORD A BETTER SOAP. For Soap. NANNT, INC., New York, N. Y. Published June 15, 1928.

34,535.—*Title:* PINI CHEESE. For Cheese. LEON PINI, Wrentham, Mass. Published April 7, 1928.

34,536.—*Title:* JOANNA. For Canned Asparagus. PRATT-LOW PRESERVING CO., Santa Clara, Calif. Published April 15, 1928.

34,537.—*Title:* REICHARDT'S CHOCOLATE COVERED CHERRIES. For Candy. REICHARDT COCOA & CHOCOLATE CO., INC., New Brunswick, N. J. Published July 1, 1928.

34,538.—*Title:* RIGHT SERVICE R S. For Head Lettuce. RICHMAN & SAMUELS INC., New York, N. Y. Published May 1, 1928.

34,539.—*Title:* EXIT PAINT CLEANER. For Composition for Cleaning Paint. SCHALK CHEMICAL CO., Los Angeles, Calif. Published June 14, 1928.

34,540.—*Title:* SCHLITZ MALT-FAMOUS. For Malt Syrup. JOS. SCHLITZ BEVERAGE COMPANY, Milwaukee, Wis. Published April 2, 1928.

34,541.—*Title:* MORE THAN A TOY. For Amusement Device. MARION D. SHAKESHAFT, Topeka, Kans. Published February 1, 1928.

34,542.—*Title:* NUTS AND RAISINS. For Chocolate Bar Containing Nuts and Raisins. A. N. STOLLWERCK, Camden, N. J. Published November 8, 1927.

34,543.—*Title:* LORD BALTIMORE STANDARD RADIO "B" BATTERY. For Radio "B" Batteries. STURGES MULTIPLE BATTERY CORP., Jamaica, N. Y. Published May 19, 1928.

34,544.—*Title:* SURETY POWDERED FACE SOAP. For Dry Powdered Toilet Soap. SURETY MANUFACTURING CO., Chicago, Ill. Published July 14, 1928.

34,545.—*Title:* ELECTRIC CHRISTMAS TREE OUTFIT. For Electric Christmas-Tree Outfits. I. & C. YOUNG, INC., New York, N. Y. Published June 15, 1928.

PRINTS

REGISTERED SEPTEMBER 4, 1928.

11,192.—*Title:* ART BUMPERS BY C. G. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published August 1, 1928.

11,193.—*Title:* ARTISTIC BUMPERS. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published July 1, 1928.

11,194.—*Title:* COLLINGBOURNE'S LUSTEX FLOSS. For Darning Cotton. COLLINGBOURNE MILLS, INC., Elgin, Ill. Published July 7, 1928.

11,195.—*Title:* SWIM FOR SHORE—IT'S ESKIMO PIE TIME! For Frozen Confections. ESKIMO PIE CORPORATION, Louisville, Ky. Published June 30, 1928.

11,196.—*Title:* CAREFUL BOY!—IT'S SPREAD THICK—THAT MOIST AND CREAMY HEINZ PEANUT BUTTER. For Peanut Butter. H. J. HEINZ COMPANY Pittsburgh, Pa. Published July 21, 1928.

11,197.—*Title:* ADFORM 85. For Coffee. HILLS BROS., San Francisco, Calif. Published June 10, 1928.

11,198.—*Title:* ADFORM 84. For Coffee. HILLS BROS., San Francisco, Calif. Published June 10, 1928.

11,199.—*Title:* HANDSOME, DEPENDABLE AND STURDY, TIP-TOP IS A WRIST-WATCH YOU'LL BE PROUD TO OWN. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published May 1, 1928.

11,200.—*Title:* TIP-TOP IS A FINE WRIST-WATCH AT ANY PRICE—IT COSTS ONLY $3.50. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published June 30, 1928.

11,201.—*Title:* INSPECT TIP-TOP FOR YOURSELF AND BE CRITICAL. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published May 5, 1928.

11,202.—*Title:* DESIGNED FOR LOOKS, MADE FOR SERVICE, TIP-TOP GRACES ANY WRIST. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published February 4, 1928.

11,203.—*Title:* JUDGE TIP-TOP BY ANY STANDARDS, PUT IT TO ANY TEST. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published January 21, 1928.

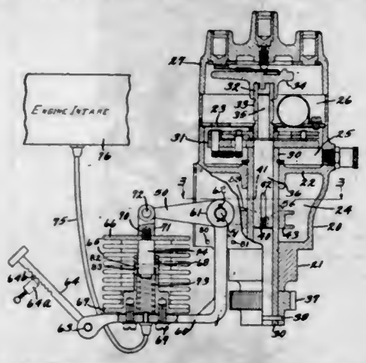
11,204.—*Title:* KEEP MOTORS NEW—PENNZOIL SAFE LUBRICATION. For Lubricating Oils and Greases. THE PENNZOIL COMPANY INC., Oil City, Pa. Published May 25, 1928.

11,205.—*Title:* THE ARLOK BUSHING. For Bushings. UNIVERSAL STANDARD COMPANY, Detroit, Mich. Published May 15, 1928.

REISSUES

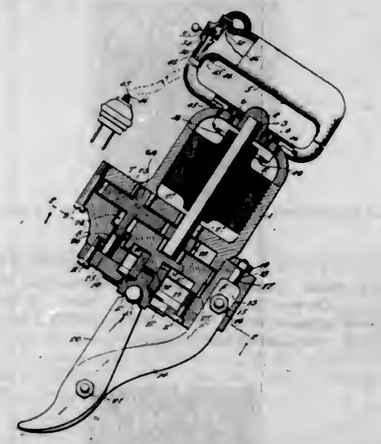
SEPTEMBER 4, 1928.

17,074. IGNITION SYSTEM. JOHN H. HUNT, Detroit, Mich., assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 27, 1928. Serial No. 250,025. Original No. 1,590,827, dated June 29, 1926, Serial No. 636,007, filed May 1, 1923. 14 Claims. (Cl. 123—117.)



1. In ignition apparatus for internal combustion engines, the combination with a breaker lever element and a cam element; of means for moving one of the elements relative to the other in response to engine suction, said means including a suction chamber having a movable wall; and means for manually moving said element, said manual means including the suction chamber through which motion is transmitted from the operator to said element.

17,075. MOTOR SHEARS. ALVIN S. REICHEL, Matamoras, Pa., assignor, by direct and mesne assignments, to Hayes Mfg. Co., Inc., Port Jervis, N. Y., a Corporation of New York. Filed Apr. 14, 1928. Serial No. 270,067. Original No. 1,613,126, dated Jan. 4, 1927, Serial No. 57,919, filed Sept. 22, 1925. 9 Claims. (Cl. 164—74.)



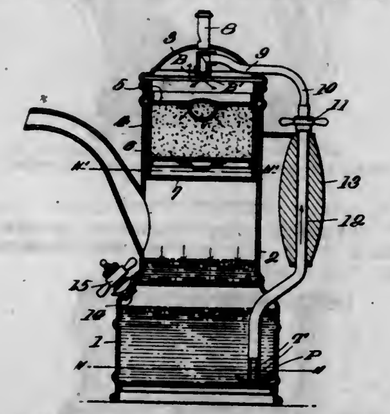
1. A device of the character described, including a gear casing, a power shaft projecting into the gear casing, a fixed shear blade, a movable shear blade, a rocker arm mounted in the casing, a socket member operatively engaging the rocker arm and movably connected to the movable shear blade, a gear wheel located in axial alinement with the drive shaft, a crank pin on the gear wheel operatively connected to the rocker arm, and a gear train transmitting motion from the power shaft to the said last mentioned gear.

17,076. GOLF CLUB. CHARLES J. JAHANT, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 10, 1928. Serial No. 245,713. Original No. 1,636,514, dated July 19, 1927, Serial No. 148,221, filed Nov. 13, 1926. 2 Claims. (Cl. 273—80.)



1. A golf club comprising a shaft, a driving head formed with a tapered neck connecting portion having a bore for receiving one end of the shaft, windings wrapped around the neck portion of the head and the base of the shaft, and a removable thin walled rubber protecting sleeve entirely encasing the winding and protecting the winding, said protecting sleeve being of relatively thin, high grade rubber with beaded ends to prevent injury thereto during installation.

17,077. APPARATUS FOR USE IN MAKING EXTRACTS, INFUSIONS, DECOCTIONS, AND THE LIKE. LOUIS MARCEL POUGET, Vallieres, France. Filed Oct. 7, 1927. Serial No. 224,708. Original No. 1,556,026, dated Oct. 6, 1925, Serial No. 648,756, filed June 30, 1923, and in France Nov. 22, 1922. 8 Claims. (Cl. 53—3.)



1. A boiler, a receptacle detachably mounted therein, a filtering receptacle in the first named receptacle and having a cover which also forms the cover of said first named receptacle, a tube comprising two members, one leading from the bottom of the boiler and the other leading from the first to the upper portion of the filtering receptacle and including a portion arranged without the boiler and first named receptacle and also including a coupling joint, the said members being respectively attached to the boiler and to the first named receptacle and a handle having a bore through which that portion of the first named tubular member which is arranged with the boiler extends.

DESIGNS

SEPTEMBER 4, 1928.

76,215. FLAME SHIELD. ROBERT C. ANGELL, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1928. Serial No. 27,159. Term of patent 14 years.



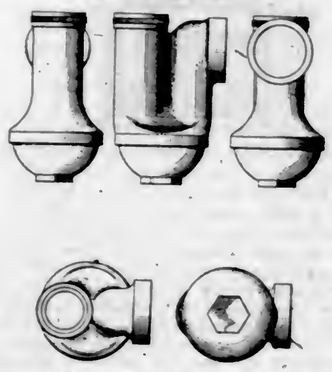
The ornamental design for flame shield as shown.

76,216. LEG OF A CHAIR OR SETTEE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1927. Serial No. 24,633. Term of patent 3½ years.



The ornamental design for a leg of a chair or settee as shown.

76,217. PLUMBER'S TRAP. FREDERIC D. BLAUVELT, Montclair, N. J. Filed Mar. 30, 1926. Serial No. 17,121. Term of patent 3½ years.



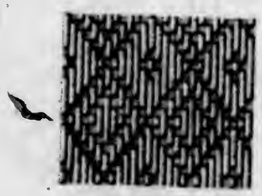
The ornamental design for a plumber's trap as shown.

76,218. OVERSHOE. EDGAR S. BOTT and ARTHUR S. FUNK, La Crosse, Wis. Filed Apr. 4, 1928. Serial No. 26,125. Term of patent 7 years.



The ornamental design for an overshoe, as shown.

76,219. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass., a Corporation of Massachusetts. Filed Nov. 4, 1927. Serial No. 24,007. Term of patent 7 years.



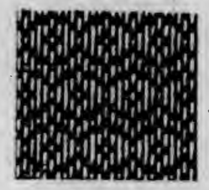
The ornamental design for a textile fabric, as shown.

76,220. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1927. Serial No. 24,130. Term of patent 7 years.



The ornamental design for a textile fabric, as shown.

76,221. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1927. Serial No. 24,132. Term of patent 7 years.



The ornamental design for a textile fabric, as shown.

76,222. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1927. Serial No. 24,134. Term of patent 7 years.



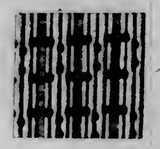
The ornamental design for a textile fabric, as shown.

76,223. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1927. Serial No. 24,135. Term of patent 7 years.



The ornamental design for a textile fabric, as shown.

76,224. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 20, 1926. Serial No. 17,345. Term of patent 7 years.



The ornamental design for a textile fabric, as shown.

76,225. RUG. STELLA BRANDT, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed June 11, 1928. Serial No. 27,075. Term of patent 7 years.



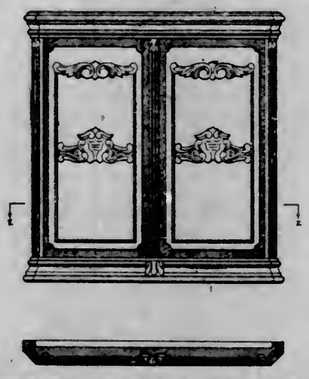
The ornamental design for a rug, as shown.

76,226. RUG. STELLA BRANDT, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed June 11, 1928. Serial No. 27,076. Term of patent 3½ years.



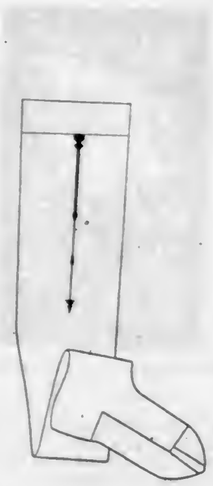
The ornamental design for a rug, as shown.

76,227. COVER FOR AN ELECTRICAL SWITCH BOX. OSCAR A. BRONSON, Minneapolis, Minn. Filed Apr. 4, 1928. Serial No. 26,123. Term of patent 3½ years.



The ornamental design for a cover for an electrical switch box, as shown.

76,228. HOSIERY. OBERT W. BURKETT, Dallas, Tex. Filed Oct. 25, 1927. Serial No. 23,873. Term of patent 3½ years.



The ornamental design for hosiery as shown.

76,229. CARD-TABLE-COVER CLAMP. JESSIE R. BURN, San Antonio, Tex. Filed May 31, 1928. Serial No. 26,934. Term of patent 14 years.



The ornamental design for a card table cover clamp, as shown.

76,230. HARNESS BUCKLE. FRED E. BURRALL, Green Bay, Wis., assignor to McIntyre-Burrall Company, Green Bay, Wis., a Corporation of Wisconsin. Filed Oct. 8, 1927. Serial No. 23,677. Term of patent 14 years.



The ornamental design for a harness buckle substantially as shown.

76,231. BOTTLE. PAUL A. GINTER, Toledo, Ohio, assignor to The American Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 23, 1928. Serial No. 26,428. Term of patent 14 years.



The ornamental design for a bottle, substantially as shown

76,232. BOTTLE. PAUL A. GINTER, Toledo, Ohio, assignor to The American Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 23, 1928. Serial No. 26,429. Term of patent 14 years.

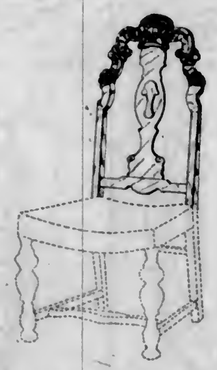


The ornamental design for a bottle, substantially as shown.

76,233. BABY SHOE. LOUIS J. GOLDEN, Chicago, Ill., assignor to B. & B. Shoe Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1928. Serial No. 26,931. Term of patent 3½ years.

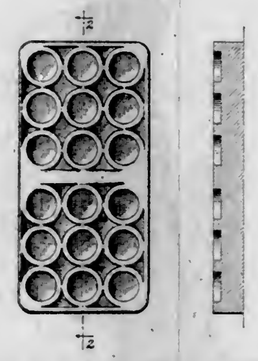
The ornamental design for a baby shoe, as shown.

76,234. CHAIR BACK OR SIMILAR ARTICLE. LAWRENCE E. GORDON, Marion, Va., assignor to Virginia Table Company, Incorporated, Marion, Va., a Corporation of Virginia. Filed June 8, 1928. Serial No. 27,039. Term of patent 3½ years.



The ornamental design for a chair back or similar article as shown.

76,235. DOMINO. TOM C. GRAHAM, Albany, N. Y., assignor to The Embossing Company, Albany, N. Y., a Corporation of New York. Filed June 9, 1928. Serial No. 27,058. Term of patent 14 years.

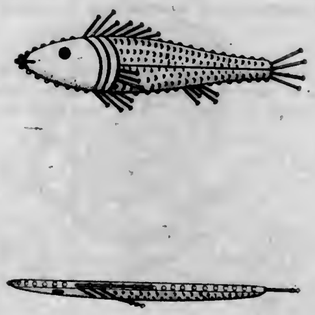


The ornamental design for a domino, as shown.

76,236. BOX. EUGÈNE GSELL, Brooklyn, N. Y., assignor to Wallace & Co., Brooklyn, N. Y., a Corporation of New Jersey. Filed June 9, 1928. Serial No. 27,064. Term of patent 14 years.

The ornamental design for a box as shown.

76,237. PINCUSHION. ELLEN LINDSEY HARRISON, New York, N. Y. Filed Apr. 28, 1928. Serial No. 26,495. Term of patent 14 years.



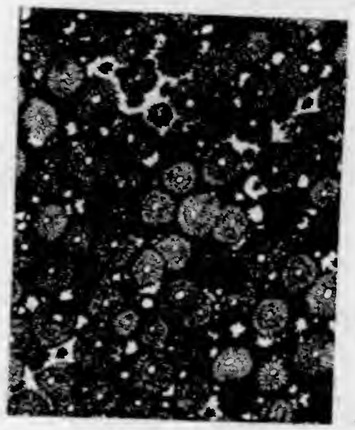
The ornamental design for a pincushion substantially as shown.

76,238. BRUSH. OLIVER T. HAZZARD, St. Louis, Mo. Filed Jan. 7, 1928. Serial No. 24,779. Term of patent 7 years.



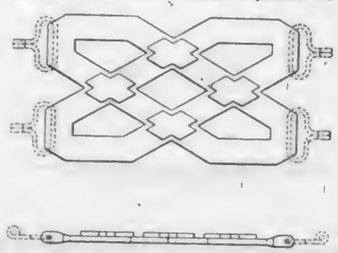
The ornamental design for a brush substantially as shown.

76,239. TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE. ALFRED J. HEINKE, Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y., a Corporation of Delaware. Filed May 28, 1928. Serial No. 26,875. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article of manufacture, substantially as shown and described.

76,240. NONSKID MAT FOR PNEUMATIC TIRES. FRANCIS O. HELTZEL, Youngstown, Ohio. Filed May 7, 1927. Serial No. 21,879. Term of patent 14 years.



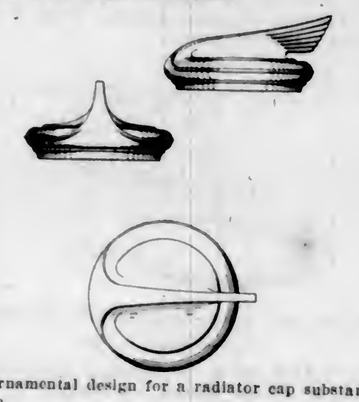
The ornamental design for a nonskid mat for pneumatic tires, as shown.

76,241. TRAFFIC SIGNAL. OLE L. HILDE, Minneapolis, Minn. Filed Oct. 29, 1927. Serial No. 23,926. Term of patent 3½ years.



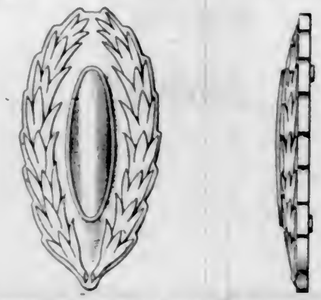
The ornamental design for a traffic signal as shown.

76,242. RADIATOR CAP. JAMES R. HUGHES and WILLIAM H. WEBER, South Bend, Ind., assignors to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Apr. 12, 1928. Serial No. 26,304. Term of patent 14 years.



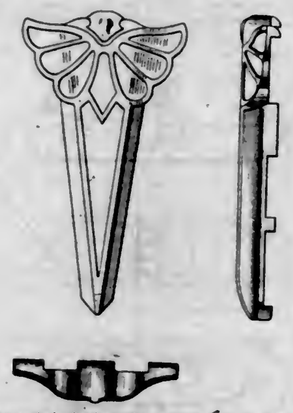
The ornamental design for a radiator cap substantially as shown.

76,243. CLAMP PLATE FOR VEHICLE BUMPERS. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Sept. 9, 1927. Serial No. 23,344. Term of patent 14 years.



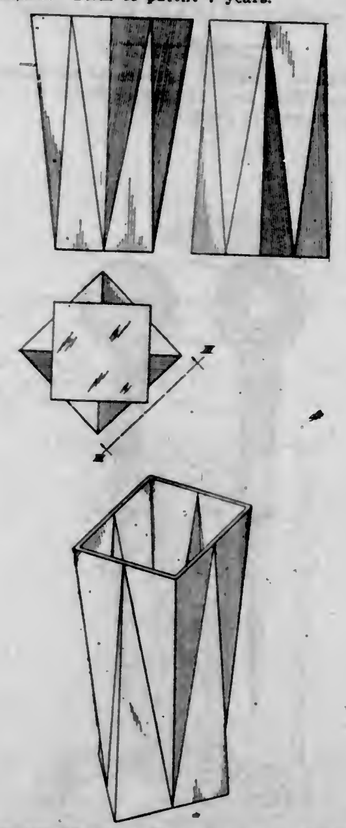
The ornamental design for a clamp plate for vehicle bumpers, substantially as shown.

76,244. CLAMP PLATE FOR VEHICLE BUMPERS. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Sept. 9, 1927. Serial No. 23,352. Term of patent 14 years.



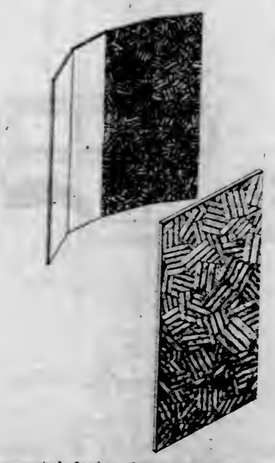
The ornamental design for a clamp plate for vehicle bumpers, substantially as shown.

76,245. GLASS VASE. NICHOLAS KOPP, Pittsburgh, Pa., assignor to Kopp Glass, Inc., Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 22, 1928. Serial No. 25,947. Term of patent 7 years.



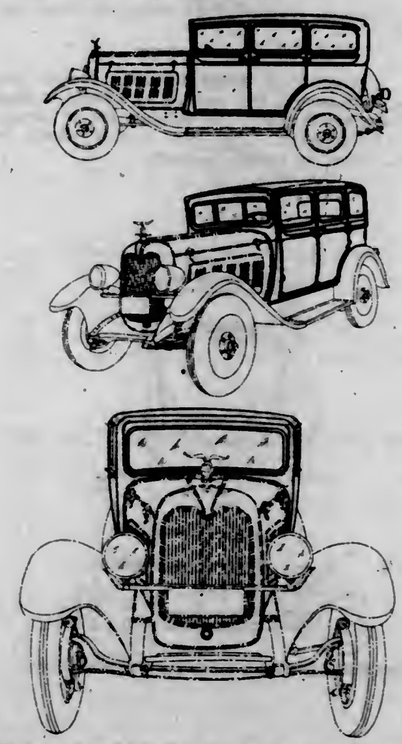
The ornamental design for a glass vase, as shown.

76,246. FOLDING SCREEN FOR A ROOM. HOWARD L. KRATZ, Philadelphia, Pa., assignor to John Wanamaker Philadelphia, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 23, 1927. Serial No. 22,855. Term of patent 3½ years.



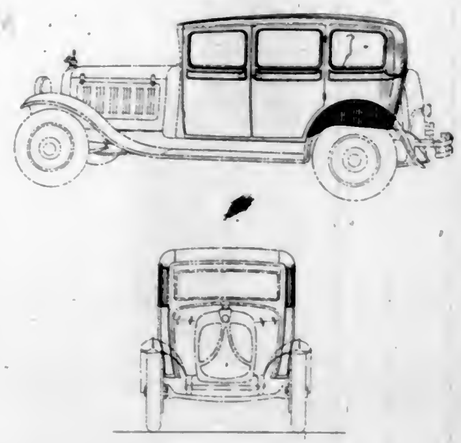
The ornamental design for a folding screen for a room, substantially as shown and described.

76,247. AUTOMOBILE BODY. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 17, 1927. Serial No. 22,469. Term of patent 14 years.



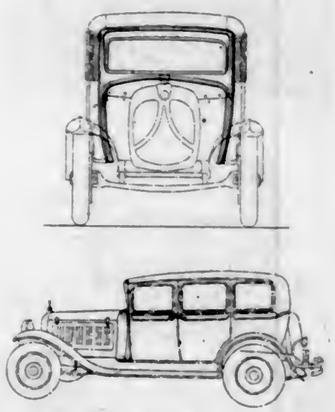
The ornamental design for an automobile body, as shown.

76,248. AUTOMOBILE BODY SIDE. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 23, 1927. Serial No. 23,185. Term of patent 14 years.



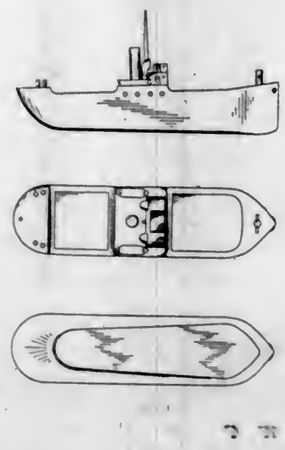
The ornamental design for an automobile body side, as shown.

76,249. AUTOMOBILE BODY FRONT. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 2, 1927. Serial No. 23,277. Term of patent 14 years.



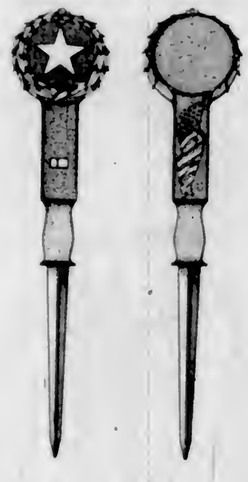
The ornamental design for automobile body front, as shown.

76,250. TOY BOAT. LOUIS LYMAN, Cleveland, Ohio. Filed Dec. 10, 1926. Serial No. 20,008. Term of patent 3½ years.



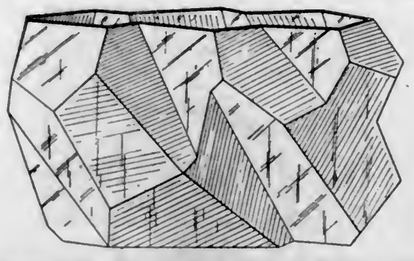
The ornamental design for a toy boat, as shown.

76,251. GRAVE MARKER. ALFRED S. MCCASKEY, Chicago, Ill. Filed Dec. 12, 1927. Serial No. 24,458. Term of patent 14 years.



The ornamental design for a grave marker, as shown.

76,252. FISH BOWL OR SIMILAR ARTICLE. THOMAS W. MCCREARY, Monaca, Pa., assignor to The Phoenix Glass Company, Monaca, Pa., a Corporation of West Virginia. Filed May 10, 1928. Serial No. 26,622. Term of patent 7 years.



The ornamental design for a fish bowl or similar article, as shown.

76,253. BOOTEE. JACK MELTZER, Brooklyn, N. Y. Filed May 29, 1928. Serial No. 26,902. Term of patent 7 years.



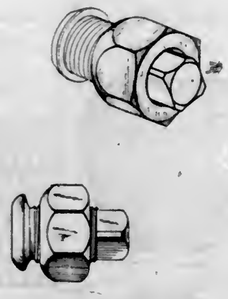
The ornamental design for a bootee substantially as shown.

76,254. BENCH STANDARD. ALICE JEANNETTE MILLER, Chicago, Ill. Filed Mar. 26, 1928. Serial No. 26,012. Term of patent 3½ years.



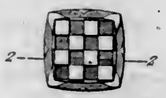
The ornamental design for a bench standard as shown.

76,255. CAP NUT. EMIL A. NELSON, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1925. Serial No. 15,648. Term of patent 14 years.



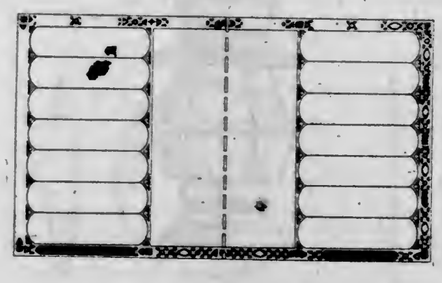
The ornamental design for a cap nut, as shown and described.

76,256. BUTTON. WILLARD A. ORMSBEE, Taunton, Mass. Filed Sept. 25, 1926. Serial No. 19,167. Term of patent 3½ years.



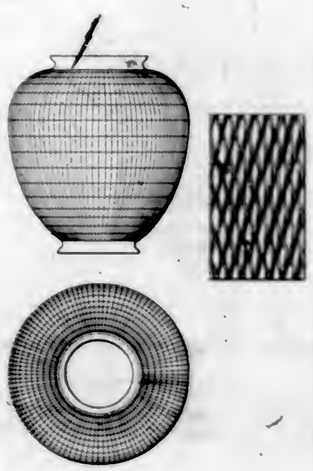
The ornamental design for a button, substantially as shown.

76,257. LEAF FOR A BANK DEPOSIT BOOK. RICHARD F. OUTCAULT, Jr., Chicago, Ill. Filed Jan. 15, 1927. Serial No. 20,391. Term of patent 14 years.



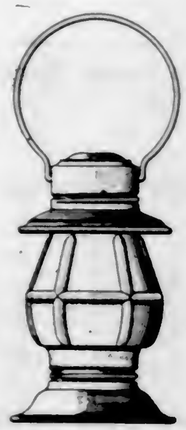
The ornamental design for a leaf for a bank deposit book, as shown.

76,258. LIGHTING-FIXTURE GLOBE OR SIMILAR ARTICLE. RAYMOND V. OWEN, St. Louis, Mo., assignor to The Edwin F. Guth Company, St. Louis, Mo., a Corporation of Missouri. Filed July 28, 1926. Serial No. 18,517. Term of patent 14 years.



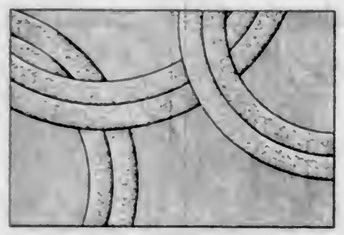
The ornamental design for a lighting fixture globe, or similar article, substantially as shown.

76,259. CANDY CONTAINER. JAMES PAULL and ALBERT A. MILLER, Wellsburg, W. Va., assignors to The Eagle Manufacturing Company, Wellsburg, W. Va., a Corporation of West Virginia. Filed Jan. 13, 1928. Serial No. 24,866. Term of patent 3½ years.



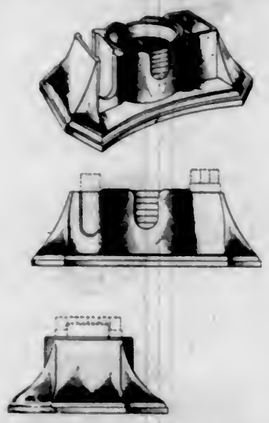
The ornamental design for a candy container, as shown.

76,260. BLANK OF LEATHER. HENRY ROBERT SAMSTAG, New York, N. Y., assignor to Samstag & Hilder Bros., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 15, 1925. Serial No. 15,760. Term of patent 3½ years.



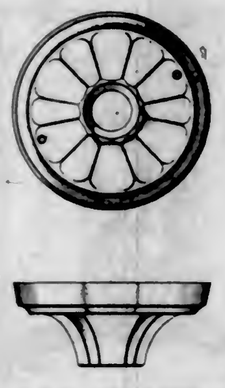
The ornamental design for a blank of leather substantially as shown.

76,261. SMOKER'S TRAY. GUSTAV E. SCHNEIDER and ARTHUR B. SCHNEIDER, Chicago, Ill., assignors to Roto Tray Company, a Corporation of Illinois. Filed June 18, 1928. Serial No. 27,191. Term of patent 3½ years.



The ornamental design for a smoker's tray as shown.

76,262. LIGHTING FIXTURE. ROY W. SCHWEIKER, Lansdale, Pa. Filed Feb. 15, 1926. Serial No. 16,531. Term of patent 14 years.



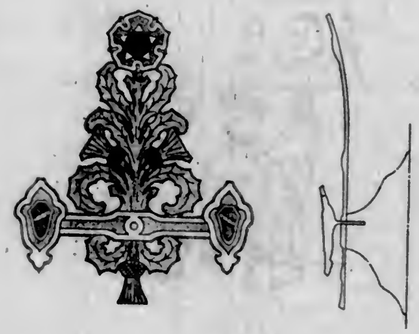
The ornamental design for a lighting fixture, as shown.

76,263. LOUD SPEAKER. JOHN E. SEDERHOLM, St. Paul, Minn., assignor to American Hoist & Derrick Company, St. Paul, Minn., a Partnership composed of F. J. Johnson and W. O. Washburn. Filed Apr. 14, 1928. Serial No. 26,321. Term of patent 14 years.



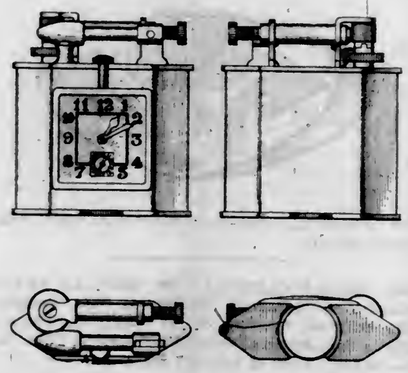
The ornamental design for a loud speaker, as shown.

76,264. ARM FOR WALL BRACKETS OR THE LIKE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed June 8, 1928. Serial No. 27,055. Term of patent 7 years.



The ornamental design for an arm for wall brackets or the like substantially as shown.

76,265. CIGAR LIGHTER OR SIMILAR ARTICLE. AARON SIMON, Brooklyn, and LOUIS YENTIS, Jackson Heights, N. Y. Filed June 5, 1928. Serial No. 27,008. Term of patent 3½ years.



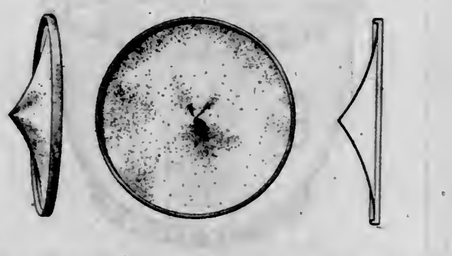
The ornamental design for a cigar lighter or similar article, as shown.

76,266. LOUD-SPEAKER DIAPHRAGM. LESLIE STEVENS, Glen Ridge, N. J., assignor to Stevens Manufacturing Corporation, New York, N. N. Y., a Corporation of Delaware. Filed Feb. 12, 1927. Serial No. 20,731. Term of patent 7 years.



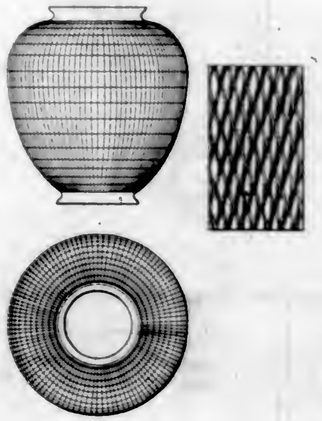
The ornamental design for a loud speaker diaphragm, as shown.

76,267. LOUD-SPEAKER DIAPHRAGM. LESLIE STEVENS, Glen Ridge, N. J., assignor to Stevens Manufacturing Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 15, 1927. Serial No. 20,768. Term of patent 7 years.



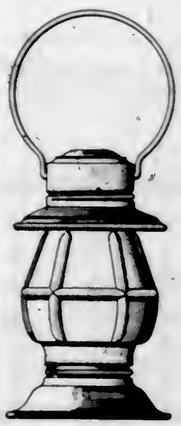
The ornamental design for a loud speaker diaphragm, as shown.

76,258. LIGHTING-FIXTURE GLOBE OR SIMILAR ARTICLE. RAYMOND V. OWEN, St. Louis, Mo., assignor to The Edwin F. Guth Company, St. Louis, Mo., a Corporation of Missouri. Filed July 28, 1926. Serial No. 18,517. Term of patent 14 years.



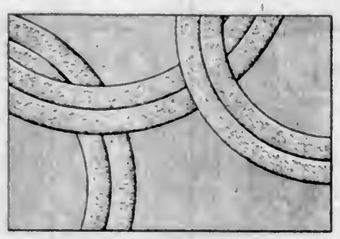
The ornamental design for a lighting fixture globe, or similar article, substantially as shown.

76,259. CANDY CONTAINER. JAMES PAULL and ALBERT A. MILLER, Wellsburg, W. Va., assignors to The Eagle Manufacturing Company, Wellsburg, W. Va., a Corporation of West Virginia. Filed Jan. 13, 1928. Serial No. 24,866. Term of patent 3½ years.



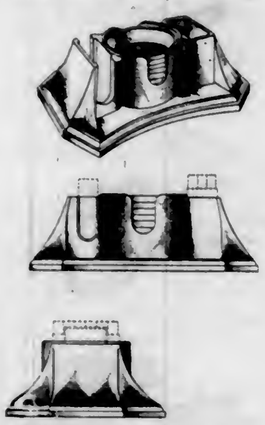
The ornamental design for a candy container, as shown.

76,260. BLANK OF LEATHER. HENRY ROBERT SAMSTAG, New York, N. Y., assignor to Samstag & Hilder Bros., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 15, 1925. Serial No. 15,760. Term of patent 3½ years.



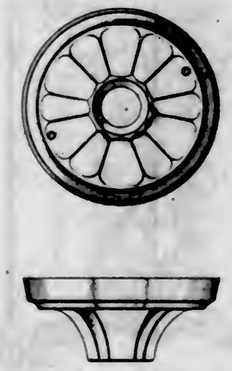
The ornamental design for a blank of leather substantially as shown.

76,261. SMOKER'S TRAY. GUSTAV E. SCHNEIDER and ARTHUR B. SCHNEIDER, Chicago, Ill., assignors to Roto Tray Company, a Corporation of Illinois. Filed June 18, 1928. Serial No. 27,191. Term of patent 3½ years.



The ornamental design for a smoker's tray as shown.

76,262. LIGHTING FIXTURE. ROY W. SCHWEIKER, Lansdale, Pa. Filed Feb. 15, 1926. Serial No. 16,531. Term of patent 14 years.



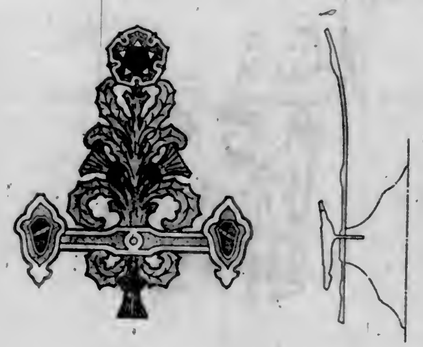
The ornamental design for a lighting fixture, as shown.

76,263. LOUD SPEAKER. JOHN E. SEDERHOLM, St. Paul, Minn., assignor to American Hoist & Derrick Company, St. Paul, Minn., a Partnership composed of F. J. Johnson and W. O. Washburn. Filed Apr. 14, 1928. Serial No. 26,321. Term of patent 14 years.



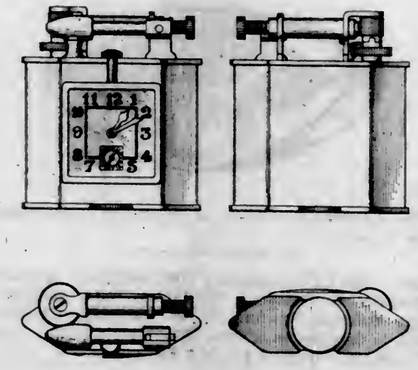
The ornamental design for a loud speaker, as shown.

76,264. ARM FOR WALL BRACKETS OR THE LIKE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed June 8, 1928. Serial No. 27,055. Term of patent 7 years.



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76,265. CIGAR LIGHTER OR SIMILAR ARTICLE. AARON SIMON, Brooklyn, and LOUIS YENTIS, Jackson Heights, N. Y. Filed June 5, 1928. Serial No. 27,008. Term of patent 3½ years.



The ornamental design for a cigar lighter or similar article, as shown.

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The ornamental design for a loud speaker diaphragm, as shown.

76,267. LOUD-SPEAKER DIAPHRAGM. LESLIE STEVENS, Glen Ridge, N. J., assignor to Stevens Manufacturing Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 15, 1927. Serial No. 20,768. Term of patent 7 years.



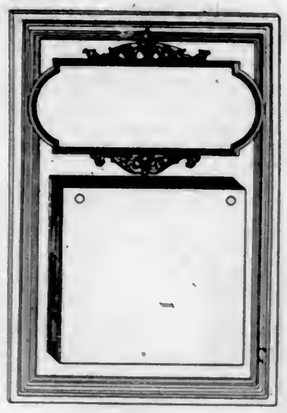
The ornamental design for a loud speaker diaphragm, as shown.

76,268. DIRECTIONAL SIGNAL. PAUL A. STOVER, Racine, Wis., assignor to The Stover Signal Engineering Co., Racine, Wis., a Corporation of Delaware. Filed Apr. 11, 1927. Serial No. 21,542. Term of patent 3½ years.



The ornamental design for a directional signal substantially as shown.

76,269. DAILY CALENDAR OR SIMILAR ARTICLE. WILLIAM S. SULLIVAN, Cincinnati, Ohio, assignor to The Sullivan Printing Works Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 18, 1928. Serial No. 26,733. Term of patent 7 years.



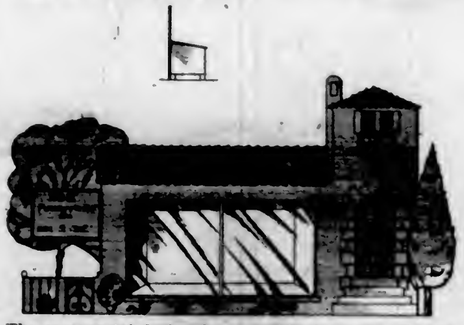
The ornamental design for a daily calendar or similar article as shown.

76,270. SELLING BOOTH. ALBERT W. TANDY, Los Angeles, Calif. Filed Mar. 28, 1928. Serial No. 26,043. Term of patent 3½ years.



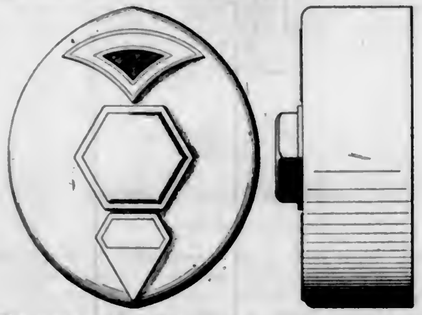
The ornamental design for a selling booth, as shown.

76,271. COMBINED MERCHANDISE DISPLAY CASE AND ADVERTISING SIGNBOARD. CYRUS O. TEETER, Denver, Colo. Filed Apr. 26, 1928. Serial No. 26,471. Term of patent 7 years.



The ornamental design for a combined merchandise display case and advertising signboard, as shown.

76,272. SHOCK-ABSORBER CASING. JOHN WARREN WATSON, Wayne, and ROBERT F. NOWALK, Philadelphia, Pa., assignors to John Warren Watson Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 11, 1928. Serial No. 26,643. Term of patent 14 years.



The ornamental design for a shock absorber casing, as shown.

76,273. ELECTRIC TABLE LAMP. SAMUEL WESTERFIELD, New York, N. Y. Filed Apr. 25, 1927. Serial No. 21,711. Term of patent 3½ years.



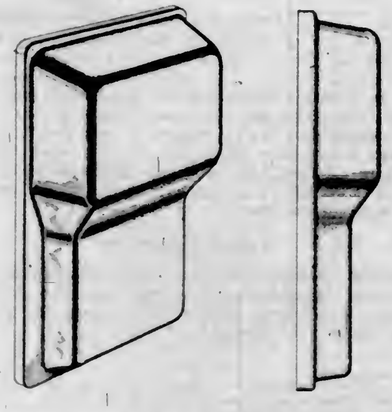
The ornamental design for an electric table lamp, as shown.

76,274. ELECTRIC TABLE LAMP. SAMUEL WESTERFIELD, New York, N. Y. Filed Apr. 25, 1927. Serial No. 21,713. Term of patent 3½ years.



The ornamental design for an electric table lamp, as shown.

76,275. SWITCH-BOX COVER. GUSTAV O. WILMS, Milwaukee, Wis., assignor to The Reliance Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 1, 1928. Serial No. 25,639. Term of patent 14 years.



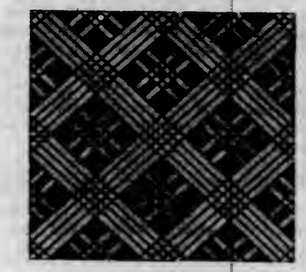
The ornamental design for a switch box cover, as shown.

76,276. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed June 19, 1928. Serial No. 27,196. Term of patent 7 years.



The ornamental design for a lamp, as shown.

76,277. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed May 31, 1928. Serial No. 26,933. Term of patent 3½ years.

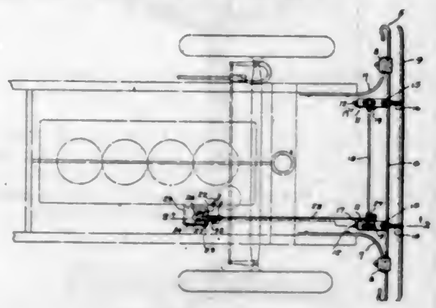


The ornamental design for a textile fabric as shown.

PATENTS

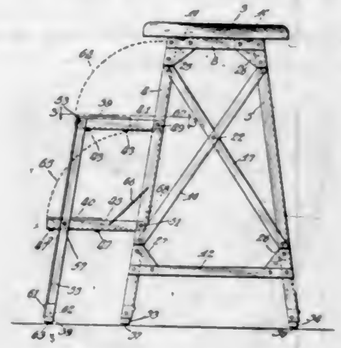
GRANTED SEPTEMBER 4, 1928.

1,682,731. BUMPER-ACTUATED CONTROL MECHANISM. JOHN A. AUSTIN, San Francisco, Calif., assignor, by direct and mesne assignments, of two-thirds to Ernest A. Seyler, Oakland, Calif. Filed Apr. 11, 1927. Serial No. 182,689. 2 Claims. (Cl. 180—83.)



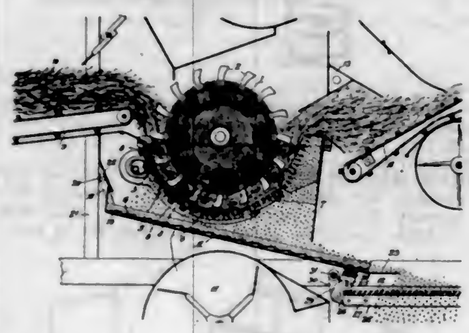
1. In combination with a motor driven vehicle having the motor thereof controlled by an electric circuit, a bumper disposable along a side of the vehicle, a second bumper disposable horizontally outwardly of said first bumper and provided with inwardly extending members at spaced points therealong, brackets mounted on said first bumper and provided with guideways arranged to slidably receive said members for longitudinal reciprocation therein, yieldable means operative to normally position said second bumper in an outer position, a shaft carried on said brackets and provided with crank arms so related to said members that an inward movement of either of the members will independently effect a rotative displacement thereof, a switch in said circuit arranged to be manually disposed to permit the operation of said motor to drive said vehicle, and means operative upon a rotative displacement of said shaft to dispose said switch in an inoperative position.

1,682,732. STEP ATTACHMENT FOR STOOLS. CLEMENT E. BEARD, Columbiana, Ohio. Filed Mar. 20, 1926. Serial No. 96,116. 7 Claims. (Cl. 228—30.)



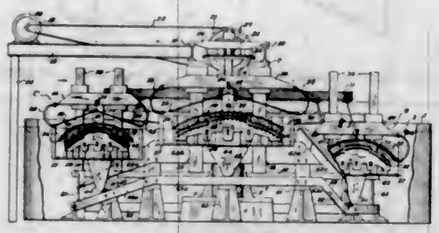
2. The combination with a stool comprising spaced-apart and substantially perpendicular angle-iron legs, of two pairs of spaced-apart angle-iron supports pivoted at their inner ends to said spaced-apart legs, steps mounted on said angle-iron supports, and upright spaced-apart legs pivoted to said angle-iron supports and adapted when extended to rest parallel with the angle iron legs of the stool.

1,682,733. SHAKER MECHANISM IN AGRICULTURAL DEVICES. JAMES T. ASHTON, Battle Creek, Mich., assignor to Nichols & Shepard Company, Battle Creek, Mich., a Corporation of Michigan. Filed Feb. 17, 1926. Serial No. 88,733. 8 Claims. (Cl. 130—24.)



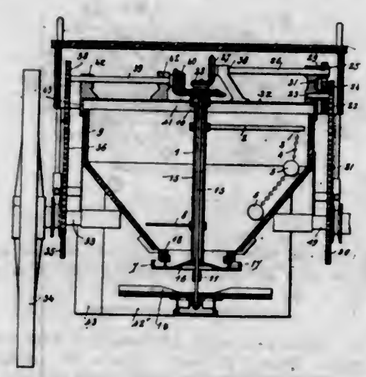
2. In a shaker mechanism for agricultural separating means, connecting means for connecting a pan to a shoe and comprising a bracket secured to said pan, a bracket secured to said shoe, means for pivotally connecting said brackets together, and oscillating means pivotally connected to one of said brackets for oscillating the brackets and said pan and shoe.

1,682,734. SPRING FORMING AND TEMPERING MACHINE. JOHN F. BEANS and BERNARD L. LE ROY, Massillon, Ohio. Filed Sept. 2, 1927. Serial No. 217,144. 14 Claims. (Cl. 266—6.)



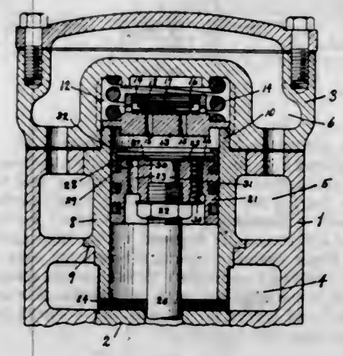
1. A cambering machine including a tempering bath, a rotatable frame mounted above said tempering bath, a series of independently movable upper and lower heads carried by said frame, a cam track in said tempering bath and means upon the heads, cooperating with said track for raising each upper and lower head from the bath and separating the heads at a predetermined point, and for clamping each upper and lower head upon a heated metal blank and returning the heads in clamped position to the bath.

1,682,735. SEED AND GRAIN DISTRIBUTOR. RENÉ BERGERIOUX, Reuilly, France. Filed Apr. 7, 1926. Serial No. 100,460, and in France Oct. 13, 1925. 2 Claims. (Cl. 259—35.)



1. In a machine for stirring and distributing material in the form of fertilizer, grains and powder, a container, a plurality of shafts extending through said container, means for driving said shafts independently of each other, a projector operated by one of said shafts, a distributor operated by the other shaft, and a stirrer in said container simultaneously actuated by the same shaft which operates said distributor.

1,682,736. COMPRESSOR PISTON. HENRY J. BERRY, Detroit, Mich., assignor of one-third to Carl W. Floss, Detroit, Mich. Filed Mar. 5, 1927. Serial No. 173,081. 7 Claims. (Cl. 230—221.)



1. The combination of a piston, formed with circular valve seats, a disk valve on said seats, and circular means to limit the movements of said valve and contacting therewith, the diameters of the lines of contact between said limiting means and of the valve seat nearest its diameter being unequal for the purpose set forth.

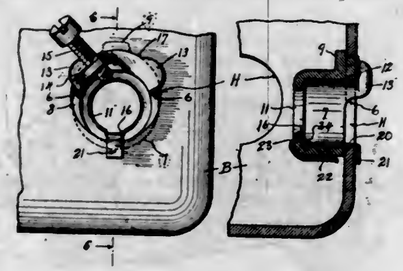
1,682,737. CABLE HANGER. JASPER BLACKBURN, Webster Groves, Mo. Filed Oct. 17, 1925. Serial No. 62,980. 1 Claim. (Cl. 248—33.)

A cable hanger formed of a single strand of spring wire having a hook on one end, a portion integrally formed with said hook and extending under and contacting with the underneath surface of a messenger wire, an arm integral with said portion, a V shaped cable seat formed integral with said arm and adapted to contact with and support a cable at one point of each of two opposite sides of its vertical axis and below its horizontal axis, so as to prevent any lateral movement therein in said seat, a second arm



integral with said seat, said arm diverging from the first mentioned arm and extending in an opposite direction thereto, and a hook integral with said last mentioned arm, said hook arranged to extend diagonally across the top of the messenger wire when the hanger is in position, whereby creeping of said hanger in either direction is eliminated.

1,682,738. CABLE CONNECTER. STEPHEN N. BUCHANAN, New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 6, 1927. Serial No. 159,438. 11 Claims. (Cl. 247—25.)

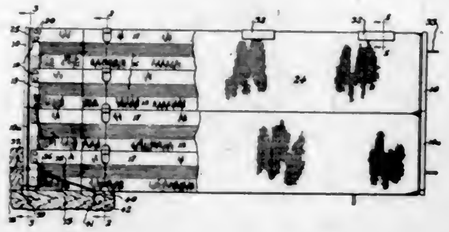


10. A connecter comprising a member which is suitable in size to fit into a box hole and which is shaped and formed to leave a portion of the box hole edge exposed to a cable inserted into the box hole and hence the connecter is unsupported by the cable until the latter is inserted, anchorage means formed on the member to engage that box hole edge portion which is opposite the exposed portion, operating means mounted on the member proximate the anchorage means to tighten upon and grip the cable against the exposed box hole edge portion and seat the anchorage means against the box hole edge; a connecter-support spring including parallel arms embracing the member substantially opposite the anchorage and operating means, one arm being longer than the other end and reaching beyond the member and being bent toward the plane of the other arm to form a hook which overlies and engages the exposed-box-hole edge portion thereby supporting the connecter in the box hole preliminary to insertion of the cable, and the longer spring being narrow so as to not cover any appreciable part of the exposed-box-hole-edge portion; and said member being provided with a depression to receive the spring to hold the latter in place.

11. A temporary support for a connecter comprising a flat-plate-type spring including a pair of spaced parallel

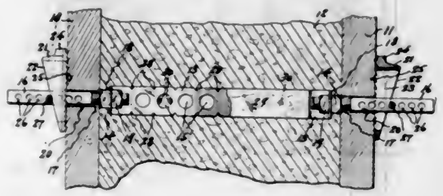
arms joined by a curved portion which is formed with a shoulder, one arm being longer than the other and having its end bent substantially at right angles toward the plane of the shorter arm to leave a space between the short arm and bent end.

1,682,739. WINDOW VENTILATOR. MARSHALL F. CLAY, Canton, Ohio. Filed Dec. 8, 1927. Serial No. 238,583. 6 Claims. (Cl. 98—99.)



1. A ventilator including upright end pieces, a plurality of slats fixed at one end to each end piece, and ears stamped from the other end portion of each slat and bent over and under the top and bottom edges respectively of corresponding slats upon the other end piece, forming a slidable connection whereby the ventilator may be adjusted in length.

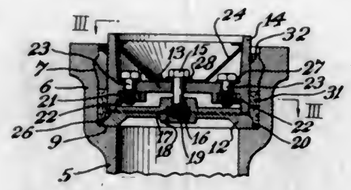
1,682,740. RETAINING MEANS FOR CONCRETE FORMS. SAMUEL S. COLT, Orange, N. J. Filed Oct. 11, 1926. Serial No. 140,740. 19 Claims. (Cl. 25—131.)



2. In combination with form members, adjustable spreader means intermediate said form members to hold the same in predetermined spaced relation, transversely perforate keeper members having threaded shanks at their inner ends, means for detachably securing said shanks with the ends of said spreader means so that said keeper members project exteriorly through said form members, cross-pins engaged through the exterior portions of said keeper members, and retaining wedges engaged intermediate said cross-pins and said form members.

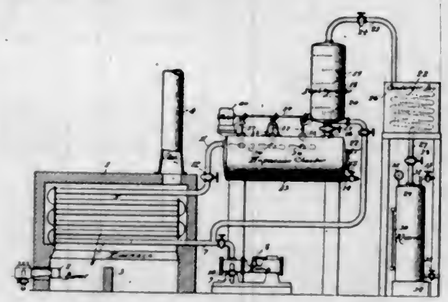
1,682,741. METAL PLUG FOR PIPE JOINTS. EDMUND R. DEARING, Birmingham, Ala. Filed Dec. 27, 1927. Serial No. 242,820. 5 Claims. (Cl. 137—76.)

1. A plug for closing the bell end of a pipe having an internal annular shoulder, comprising a disk member seated on the shoulder, a cylindrical member normally positioned adjacent the disk member toward the outer end of the bell, a transverse member extending across the cylindrical member and having a plurality of openings carrying internally threaded members to coact with forcing screws to separate the cylindrical member and the disk member when desired, and a metallic ring of joint



forming material between the cylindrical member and the wall of the pipe and tightly engaging said member and said wall.

1,682,742. PROCESS AND APPARATUS FOR CRACKING OIL. GUSTAV EGLOFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Dec. 31, 1920, Serial No. 434,187. Renewed Jan. 13, 1928. 3 Claims. (Cl. 196—58.)

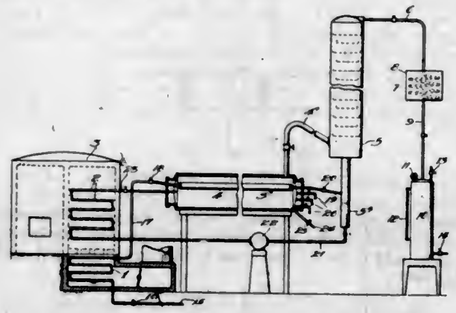


3. An apparatus for treating hydrocarbon oil, comprising a heating coil, an expansion chamber, means connecting the said coil to said expansion chamber, said expansion chamber having an oil inlet and a vapor outlet, a dephlegmator communicating with the vapor outlet, a plurality of agitating fans disposed within the upper portion of said vapor chamber, means for rotating said agitating fans, a condenser connected to said dephlegmator, a receiver in communication with the discharge side of said condenser and means for maintaining a superatmospheric pressure upon the apparatus.

1,682,743. HALOGEN TREATMENT OF OIL SHALE. GUSTAV EGLOFF, Independence, Kans., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Jan. 14, 1921, Serial No. 437,138. Renewed May 17, 1927. 4 Claims. (Cl. 23—94.)

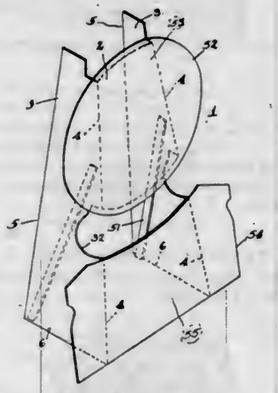
1. A process of treating oil shale having an aluminum content, consisting in introducing the shale to a still, in maintaining the shale in a constant state of motion while in said still by a rotary movement of the still, in subjecting the shale to a distillation heat by directly impinging thereon the heating gases, and in introducing to the still during the distillation of the shale chlorine gas to unite the aluminum content of the shale to form aluminum chloride.

1,682,744. PROCESS AND APPARATUS FOR TREATING PETROLEUM OIL. GUSTAV EGLOFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Jan. 30, 1923. Serial No. 615,941. Renewed Jan. 26, 1928. 8 Claims. (Cl. 196—48.)



2. A process of treating hydrocarbon oil, consisting in heating the oil to a conversion temperature, in maintaining the oil in a shallow body in a conversion stage, in recycling the unvaporized portions from said shallow body for retreatment under higher temperature conditions than the initial treatment, in passing the recycled heated oil to said conversion stage and in maintaining it in a separate body therein, in dephlegmating the vapors issuing from both of said oil bodies, in condensing the resulting vapors and in collecting the resulting distillate.

1,682,745. DISPLAY DEVICE FOR TIRES AND THE LIKE. JAMES E. FERGUSON, Cleveland, and HENRY L. MOONEY, East Cleveland, Ohio, assignors to The Lake Lithograph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 10, 1923. Serial No. 679,762. 2 Claims. (Cl. 211—24.)



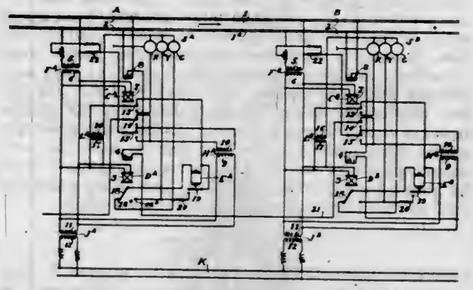
1. In an article of the character described, the combination of a standard comprising a central panel and wing panels foldable thereon, said standard being provided across its lower central portion with an arc-shaped aperture extending entirely across said central panel and having its ends located in said wing panels, said aperture providing a substantially horizontal recess across said standard when said wing panels are disposed at rearwardly extending angles to said central panel, a cutout portion provided at the top of said panel, the top edges of the standard at said cutout portion and at the lower side of said transverse aperture providing seats for supporting an article of merchandise.

1,682,746. TRAIN RETARDER. JAMES E. FINNESSY, Pittsburgh, Pa. Filed Jan. 28, 1928. Serial No. 250,154. 10 Claims. (Cl. 188—250.)



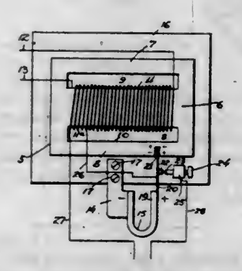
5. A train retarder shoe comprising a metallic backing member having a seating face and associated flanges, lugs on said seating face, a facing of rubberoid material having in the under region thereof indentations arranged to engage the lugs on the seating face, and a detachable side member arranged to be attached to the remainder of the backing member after attachment of the rubberoid facing.

1,682,747. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. CHARLES W. FAILOR, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1926. Serial No. 143,404. 8 Claims. (Cl. 246—34.)



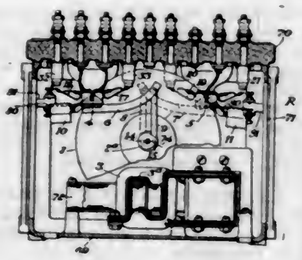
1. In combination, a section of railway track, a loop circuit for said section including the track rails in multiple and a winding of a line relay, and a checking relay and a signal controlled jointly by said line relay.

1,682,748. RECTIFYING TRANSFORMER. CHARLES FAYER, Flushing, and FREDERICK H. WAPPLER, Elmhurst, N. Y., assignors to Wappler Electric Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed July 27, 1922. Serial No. 578,017. 3 Claims. (Cl. 175—365.)



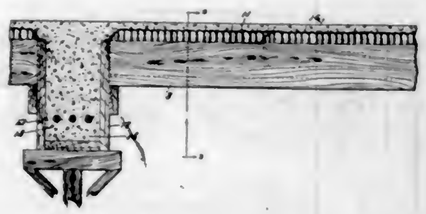
1. A device of the character described comprising a closed core made of magnetic material and provided with a slot, a winding mounted upon said core for energizing the same periodically, a spring armature extending into said slot and therein movable by magnetic action of said core, contact mechanism connected with said spring armature and controllable by movements thereof, connections from said winding to said contact mechanism, and means for energizing said winding and said contact mechanism.

1,682,749. ELECTRICAL RELAY. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 8, 1923. Serial No. 611,275. 19 Claims. (Cl. 200—91.)



1. A relay comprising two rocker arms each biased to one position, an operating member pivotally mounted to swing in opposite directions from a middle position, two links operatively connected with said two rocker arms respectively and each provided with a slot, two pins moving said operating member and projecting into said two slots respectively and so arranged that when the member moves in either direction from its middle position one pin or the other pulls its associated link to move the associated rocker arm in opposition to its biasing force while the remaining pin slides idly in the slot of its associated link, and contacts controlled by said rocker arms.

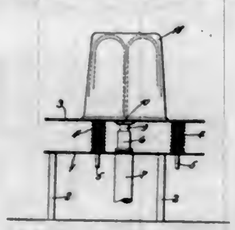
1,682,750. CONCRETE-FLOOR MOLD. WALTER S. HALDEMAN, Chicago, Ill., assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 10, 1922. Serial No. 535,586. 2 Claims. (Cl. 25—131.5.)



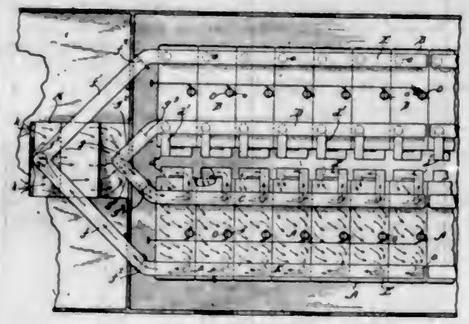
1. A mold for concrete floor joist and the like made of soffit and side planks, and flat-arched sheet-metal core plates for a concrete slab spanning the space between the side planks of adjacent joist molds, each core plate having a transverse depending web on one end overlapped by the opposite end of an adjoining plate.

1,682,751. METHOD AND APPARATUS FOR APPLYING COATING TO THE INSIDE OF PAINT BUCKETS. FRANK W. A. HALLERMAN, St. Louis, Mo., assignor to National Lead Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 18, 1924. Serial No. 693,513. 2 Claims. (Cl. 91—44.)

1. An apparatus for coating the interiors of metal paint buckets with oil, comprising, a support, spring members mounted on the top thereof, a table surface mounted on said springs adapted to position an inverted bucket, and depressible thereagainst by said bucket, a nozzle connected to receive oil from a source of oil supplied under pressure, and attached to said table surface at a depressed portion thereof, for movement therewith and arranged to direct the oil against the bottom of the inverted bucket so as to flow along the side walls thereof, and drain on said table surface, openings through said surface to permit drainage therethrough, and a valve rigidly connected to said nozzle and to said table for operation by movement of said nozzle and table.

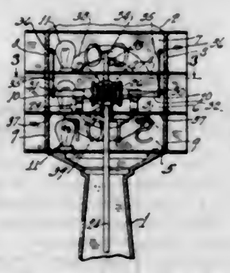


1,682,752. METHOD OF CONDITIONING COATED MATERIALS. GORDON D. HARRIS, Freeport, N. Y., assignor to The Industrial Dryer Corporation, Stamford, Conn., a Corporation of Connecticut. Filed Jan. 27, 1925. Serial No. 5,036. 11 Claims. (Cl. 34—39.)



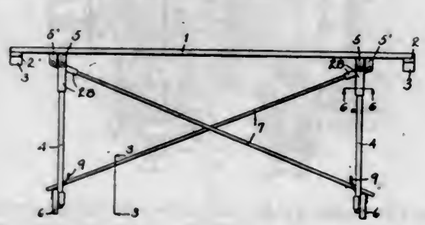
1. In the art of conditioning coated materials, the process which consists in circulating into contact with the coated surfaces an oxidizing atmosphere conditioned by the presence therein of volatile constituents emanating from such coatings, and thereafter flowing fresh atmospheric air conditioned as to its moisture content into contact with such coated surfaces.

1,682,753. TRAFFIC SIGNAL. GUSTAV L. HARRIS, St. Louis, Mo. Filed Nov. 2, 1925. Serial No. 66,236. 1 Claim. (Cl. 177—337.)



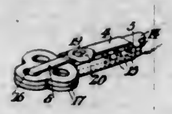
In a traffic-signal, in combination, a housing, transverse partitions within the housing dividing the housing into a plurality of superposed compartments, said partitions being slotted for communication one with another, traffic indications upon an end wall of said compartments, electrical means including a rotating contact-drum for illuminating said indications in sequential periods of predetermined duration, an indicator having its axis of rotation located within the central compartment and adapted for travel in a circular path consecutively through said communicating slots and over the traffic indicating end walls of all said compartments, and means comprising shafts and gearing intermediate the indicator and the drum for effecting synchronized rotary movement of the indicator with the rotary illuminating movement of the drum for visually signalling the effective duration and gradual expiration of the respective periods.

1,682,754. FOLDING TABLE. HENRY L. HASKELL, Ludington, Mich., assignor to The Carrom Company, Ludington, Mich. Filed Sept. 18, 1923, Serial No. 663,446. Renewed June 9, 1928. 12 Claims. (Cl. 45—11.)



12. In a folding table, the combination with a top member, pairs of legs pivotally mounted on said top member to collapse upon the underside thereof, cross members at the lower ends of said legs, braces pivotally mounted on said top member to collapse between the pairs of legs against the underside of the top member, and keepers mounted on said cross members to coact with said braces, said braces having sliding engagement with said keepers and being provided with catch members adapted to automatically engage said keepers when the legs are in erected position.

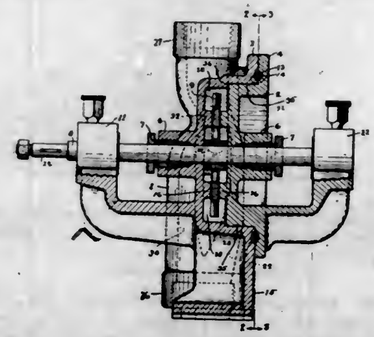
1,682,755. KEY ENVELOPE. WILLIAM H. HOLLAR, Jr., Drexel Hill, and WALTER G. UHLMAN, Philadelphia, Pa. Filed Aug. 3, 1926. Serial No. 126,813. 9 Claims. (Cl. 70—16.)



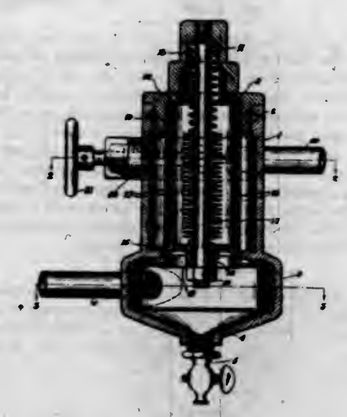
1. An envelope formed of a primarily flat sheet of flexible material adapted to be wrapped around a key and conceal the bitting thereof, and having a member, in unitary relation therewith, adapted to extend in a hole in said key.

1,682,756. ROTARY-PUMP CASING. ROBERT E. L. HOLMES, Davenport, Iowa, assignor to Westco-Chippewa Pump Company, Davenport, Iowa, a Corporation of Delaware. Filed Sept. 11, 1925. Serial No. 55,704. 4 Claims. (Cl. 103—96.)

1. A rotary pump comprising a rotor having a web portion and a bucket portion, a casing enclosing said rotor and having portions closely cooperating with the web of said rotor to define a circumferential pressure developing channel wherein liquid is engaged by the bucket portion of said rotor, said casing having a peripheral connecting stub connecting with a plurality of passages extending therefrom and opening laterally into opposite sides of the pressure developing channel, and an additional passage extending between the first named passageways to a suitable peripheral connecting stub, said casing comprising a main portion carrying both of said connecting stubs and a supplemental portion removable independently of said connecting stubs and provided with a channel connecting one of the inlet passages and said pressure developing channel.



1,682,757. OIL SEPARATOR. ROBERT C. HOPKINS, Alliance, Ohio. Filed July 27, 1925. Serial No. 46,378. 4 Claims. (Cl. 210—165.)

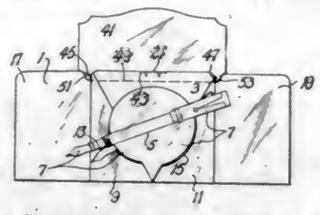


1. An oil separator including a cylindric tank an oil inlet pipe entering the lower portion of the tank at a tangent thereto, a perforate cylinder suspended within the tank, an axial rod within the cylinder provided with a shoulder at its lower end, a piston slidable upon the rod and having a beveled edge for contact with the interior of the cylinder, and an oil outlet pipe communicating with the upper portion of the tank at a tangent thereto.

1,682,758. DISPLAY DEVICE. GEORGE HORNECKER, Elmhurst, N. Y., assignor, by mesne assignments, to Conwell Graphic Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 21, 1924. Serial No. 727,155. 3 Claims. (Cl. 40—149.)

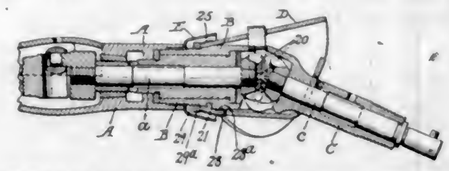
2. An advertising device comprising a one piece support and a one piece wing, said support having score lines thereon extending from top to bottom and other lines comprising scores and incisions, said last-named lines extending from top to bottom, all of said lines being formed and cooperating to divide the support into five sections which may be folded with respect to one another in such a manner as to slant the central section and hold the extreme end sec-

tions in another position, the central section and extreme sections being joined by intermediate sections; said wing comprising a separate section, means for interlocking said



separate section with the supporting member and means for holding the aforesaid extreme end sections in predetermined positions.

1,682,759. HAND GUARD FOR SHEEP SHEARS. HENRY KOCOUREK, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1927. Serial No. 174,156. 7 Claims. (Cl. 30—1.)



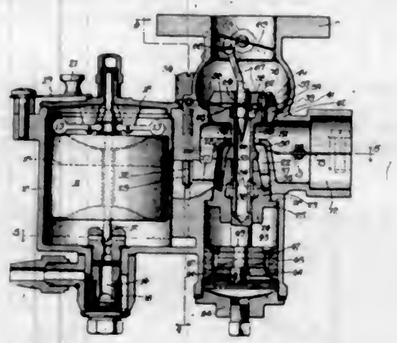
1. In a power-driven sheep shear and the like tool having a hand-grasped casing for the cutter-actuating means, a journal bearing member for the inleading shaft of said means swiveled to said hand-grasped casing, a journal bearing member for an antecedent shaft member hingedly joined to said swiveled journal bearing member; a sheath for the hinge joint and power-communicating means thereat between said antecedent shaft and cutter-actuating shaft, said sheath being carried by said swiveled journal bearing member in the swiveling movement of the latter, and a ferrule for covering the forward end of said sheath, mounted rigidly with respect to the hand-grasped casing.

1,682,760. METHOD OF TREATING TREES. JAMES E. LAFFIN, Berlin, N. H., assignor, by mesne assignments, to Chemicolor Wood Preserving Co., a Corporation of Delaware. Filed Aug. 26, 1925. Serial No. 52,628. 10 Claims. (Cl. 47—58.)



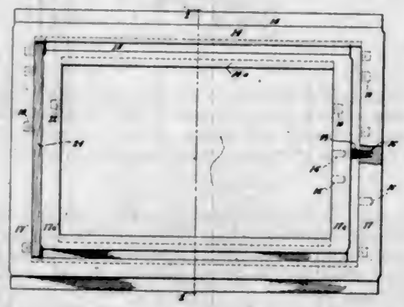
1. A method of treating living trees, which comprises forming in the trunk staggered chambers extending transversely thereof and terminating substantially at the edge of the heartwood, and supplying such chambers with an impregnating material adapted to be taken into the capillary system of the tree.

1,682,761. CARBURETOR. TORBJORN LINGA, Waukegan, Ill., assignor to The Linga Company, Waukegan, Ill., a Corporation of Illinois. Filed Aug. 22, 1925. Serial No. 51,761. 1 Claim. (Cl. 261—44.)



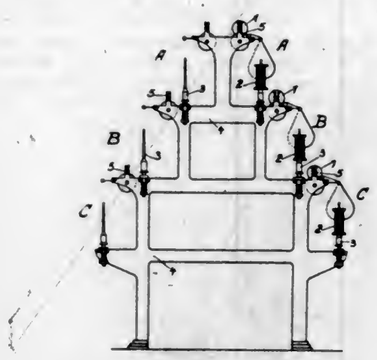
In a carburetor having an air-inlet port, the combination of a vertically-slidable valve co-operating with said air-inlet port and adapted to be raised to open said port by the suction present in the carburetor, said valve having an upright tubular stem, the passage through which terminates in a discharge orifice in a first chamber above said air-inlet port, means to retard the opening action of said valve, said carburetor having a second chamber to which fuel and air may be delivered and which connects with the passage through said tubular stem, a throttle-valve for the carburetor above said first chamber, a valve controlling the passage through said stem, and mechanical means connecting said throttle-valve and passage-valve, whereby opening of the throttle-valve lifts said passage-valve to increase the passage opening controlled thereby.

1,682,762. PRINTING-PRESS CHASE. RALPH MCCAHAN, Canton, Ohio. Continuation of application Serial No. 649,768, filed July 5, 1923. This application filed May 12, 1924. Serial No. 712,623. 10 Claims. (Cl. 101—391.)



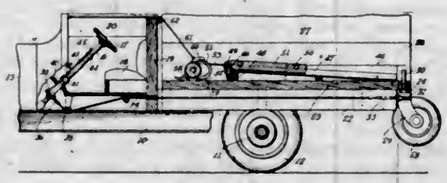
1. A printing press chase including a side member having an upper bevel on its outer edge, and a larger chase provided with a longitudinal bar detachably secured therein, the smaller chase being located within the larger chase, and the detachable bar of the larger chase having an under bevel on one edge overlapping the upper bevel on the outer edge of the smaller chase side member.

1,682,763. MACHINE FOR SPINNING AND WINDING FILAMENTS. KARL MEYER-GAUS, Barmen, Germany, assignor to the Firm: American Bemberg Corporation, New York, N. Y. Filed June 25, 1927, Serial No. 201,377, and in Germany June 28, 1926. 3 Claims. (Cl. 117—26.)



1. A machine for spinning and winding filaments, comprising stepped rows of spinning spindles and corresponding rows of winding spools located in front of the said spindles and arranged for co-operation with the corresponding spindles of the next lower row of spindles.

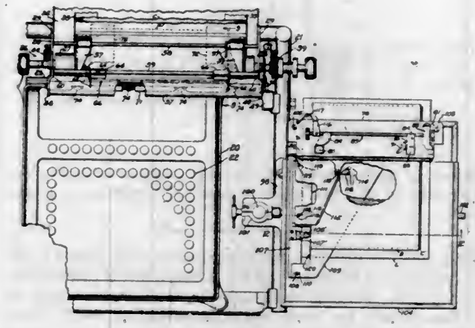
1,682,764. TRICK AUTOMOBILE. JOHN D. MOHR, Newark, N. J. Filed Mar. 5, 1927. Serial No. 172,981. 9 Claims. (Cl. 180—1.)



1. A self propelled four wheeled vehicle having a rear axle, a platform, a dirigible fifth wheel pivotally carried centrally at the rear of said platform on a horizontal axis, a shiftable weight, and means for moving said weight to cause the vehicle to tilt upon the rear axle whereby said fifth wheel is brought into contact with the surface and the forward wheels cleared therefrom.

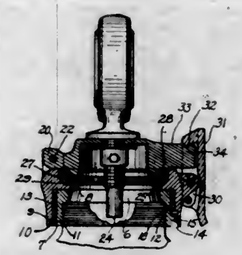
1,682,765. COLLATING EQUIPMENT FOR ADDING MACHINES AND THE LIKE. ROBERT L. MULLER, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed May 16, 1925. Serial No. 30,712. 30 Claims. (Cl. 197—127.)

1. In a machine of the class described, the combination of a platen, a feed roll cooperating with the platen, the platen being movable out of and into cooperative relation with the feed roll, means independent of the platen for retaining superimposed work sheets in collated condition between the platen and feed roll when the plate is out of cooperative relation with the feed roll, and means for



disabling said retaining means as an incident to the movement of the platen into cooperative relation with the feed roll.

1,682,766. RADIATOR CAP. WILLIAM G. NEWTON, East Orange, N. J. Filed Feb. 12, 1925. Serial No. 8,659. 5 Claims. (Cl. 220—24.)

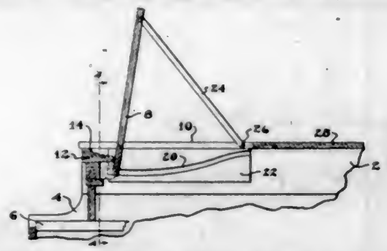


1. A radiator cap comprising a body portion, an insert fitting in said body portion for engaging the neck of a radiator, and a helical spring interposed between said body portion and said insert, said spring engaging and carrying the insert along with it when the body portion is rotated in one direction, and releasing said insert when rotated in the opposite direction.

1,682,767. PIANO CASE. JOSEPH JOHN OPELT, Guttenberg, N. J. Filed Nov. 23, 1926. Serial No. 150,227. 5 Claims. (Cl. 84—180.)

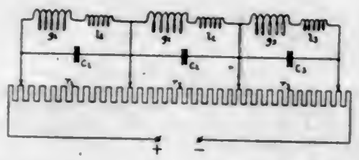
4. A case for grand pianos having, in combination, a side wall having its end portions projecting forwardly, a bar extending between said forward end portions, a top cover comprising a rear section having its forward edge spaced a distance back of said bar, and a front section arranged in the plane of said rear section for closing

the space between the front edge of said rear section and said bar, and devices for guiding said front section to



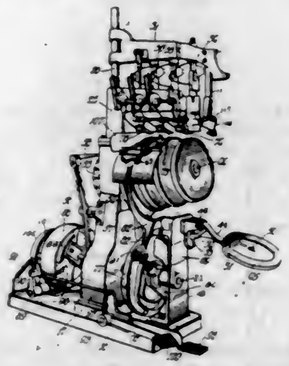
permit it to be moved into upright position adjacent the rear side of said bar so as to form with said bar a music rack..

1,682,768. CIRCUIT ARRANGEMENT FOR HIGH-FREQUENCY SYSTEMS WITH FREQUENCY AMPLIFICATION. MENDEL OSNOS, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation. Filed Feb. 20, 1923, Serial No. 620,220, and in Germany Feb. 22, 1922. 2 Claims. (Cl. 172—281.)



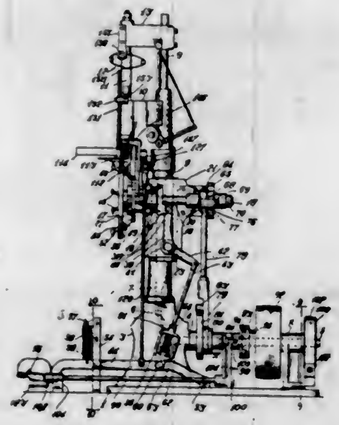
1. In combination, a source of energy, a potential distributor connected across said source, load circuits in series with each other and in parallel with the potential distributor, each load circuit comprising a load and a choke coil, taps extending from the ends of the load circuits to said distributor, whereby the current from said source thru said circuits may be separately adjusted, and condensers connected across said load circuits.

1,682,769. APPARATUS FOR MAKING BASKETS AND THE LIKE. ALBERT H. SCHMIDTKE, St. Joseph, Mich., assignor to St. Joseph Iron Works, St. Joseph, Mich., a Corporation of Michigan. Filed Aug. 1, 1925. Serial No. 47,429. 8 Claims. (Cl. 1—13.6.)



6. In a machine of the class described, the combination of a form, means for imparting a step by step rotation to the form, means for feeding panels edgewise to the form transversely of the axis thereof, a panel engaging stop extending transversely across one end of the form and in cooperative relation with the panel feeding means, panel stitching means cooperating with the form, and means working at the opposite end of the form and controlled and actuated by the panel stitching means to impact ends of the panels on the form against the stop to align the panel ends.

1,682,770. BASKET-MAKING MACHINE. ALBERT H. SCHMIDTKE, St. Joseph, Mich., assignor to St. Joseph Iron Works, St. Joseph, Mich., a Corporation of Michigan. Filed Feb. 6, 1926. Serial No. 86,386. 24 Claims. (Cl. 1—13.6.)



19. In a machine of the class described, the combination of a rotatable support, a fastener applying device movable to and from the periphery of the support, a work holder for supporting a panel between the periphery of the rotatable support and the fastener applying device, a pair of stops for engaging respectively the end and lateral edges of the panel to position the latter relatively to the support and fastener applying device, and a member movable transversely of the work holder toward the lateral edge engaging stop to shift the panel against the latter stop.

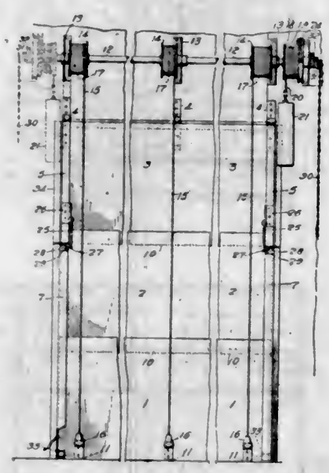
1,682,771. SEPARABLE BUTTON. JOHN E. BUTLER, Hoosick Falls, N. Y. Filed Mar. 28, 1928. Serial No. 265,407. 3 Claims. (Cl. 24—105.)



1. In a separable button, a base, a shank formed on one face of the base and formed with front threads for its entire length, and over which a piece of fabric is adapted to be disposed, a split resilient ring encircling the fabric covered shank at the juncture of the shank with the base, a head provided with a threaded socket in the inner side thereof.

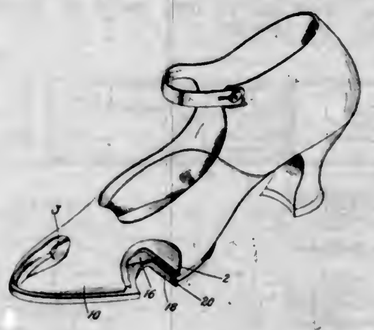
and an internally threaded collar formed on the inner side of the head and extending outwardly therefrom around the socket, the fabric covered threaded shank being removably secured in the socket and collar.

1,682,772. SLIDING SWING DOOR. JOHN CAHILL, Norfolk, Va. Filed July 17, 1924. Serial No. 726,495. 10 Claims. (Cl. 20—19.)



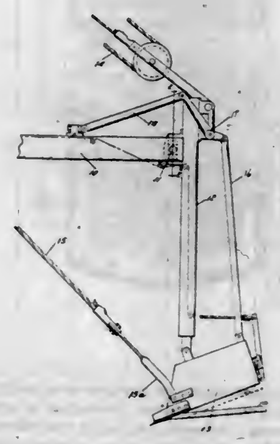
1. A door having an upper section mounted for swinging movement, a lower section mounted for relative sliding movement guides for compelling a sliding movement of the lower section into coincidence with the upper section before permitting swinging movement of such upper section, and lifting cables connected to the lower section and acting directly through such connection alone to first slide the lower section and then swing both sections.

1,682,773. METHOD OF MAKING SHOES. JAMES CAVANAGH, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 17, 1921. Serial No. 508,305. 2 Claims. (Cl. 12—142.)



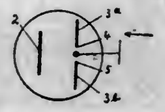
1. That improvement in methods of making shoes which consists in splitting the edge of an innersole to form a flexible margin of reduced thickness and a flap, trimming the margin of the flap to reduce its width, turning up said reduced flap at right angles to the sole to form an upper attaching lip, lasting a shoe upper to said inner sole and securing it permanently to said lip, attaching an outsole to the upper by fastenings which pass through the outsole and upper and do not penetrate the innersole, and covering said fastenings with the flexible margin of the innersole.

1,682,774. EXCAVATOR. BIRD C. CLUTTER, Akron, Ohio, assignor, by mesne assignments, to Clutter-Wagner, Inc., a Corporation of Ohio. Filed Mar. 22, 1927. Serial No. 177,296. 1 Claim. (Cl. 214—138.)



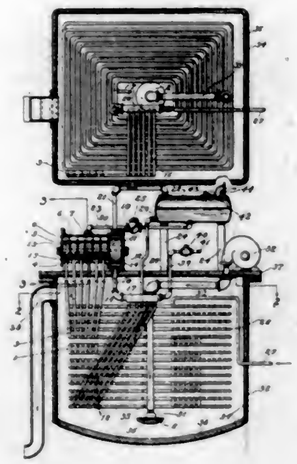
An excavator comprising a boom, and a stick pivoted on the boom, the pivot for the stick on the boom comprising a pin on the boom, a bearing member journaled on the pin and formed with transversely curved bearing surfaces, a box bearing member secured to the stick and having surfaces cooperating with said curved bearing surfaces on said first bearing member and extensions on the first bearing member engaging in slots in the box-bearing member for retaining the bearing members in proper relationship and limiting relative lateral movement of the boom and stick.

1,682,775. THERMIONIC TUBE. HENNY COHN, Charlottenburg, near Berlin, Germany, assignor to the Firm Dr. Erich F. Huth Ges. m. b. H., Berlin, Germany. Filed July 18, 1924, Serial No. 726,784, and in Germany Sept. 18, 1923. 4 Claims. (Cl. 250—27.5.)



1. A thermionic device comprising a flat anode, a filament and a controlling element having a broad flat surface and a narrow edge, said controlling element being so arranged as to present said narrow edge toward said filament, and the combined areas of the broad flat surface of said controlling element and the space from said filament to said controlling element being larger than the surface area of said flat anode.

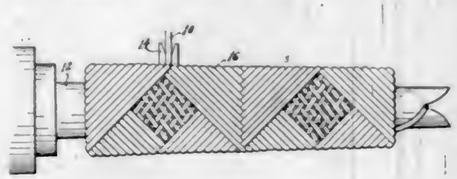
1,682,776. CIRCULATING SYSTEM FOR STEAM GENERATORS. SILAS F. CRABB, Pittsburgh, Pa., assignor to James M. Selden, Pittsburgh, Pa. Filed Jan. 21, 1921. Serial No. 439,019. 21 Claims. (Cl. 122—406.)



1. In a steam generator, the method of causing positive circulation within the generator consisting in creating a difference in pressure between portions of the generator and causing such differential pressure to operate mechanical water forcing means for supplying water from the portion of lower pressure to the portion of higher pressure.

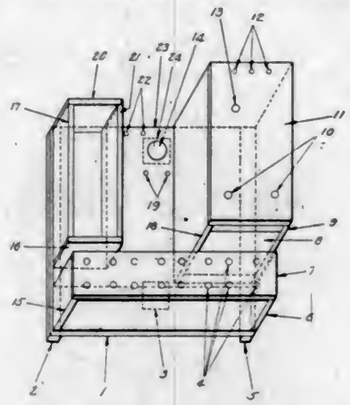
15. The combination with a steam generating member including a plurality of water tubes, having water intake ends and steam discharge ends, water feed pumps having their deliveries respectively connected to the water intake ends of the tubes, a steam receiving header with which the steam discharge ends of the tubes are connected, and a motor having an inlet for receiving the steam from the header, and operated thereby, said motor being connected to all the pumps for operating the same, the outlet from the motor constituting the steam supply outlet from the steam generating member.

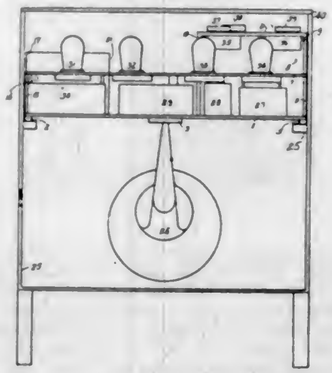
1,682,777. TWINE PACKAGE AND PROCESS FOR ITS MANUFACTURE. JOHN H. DAMON, Plymouth, Mass., assignor to Plymouth Cordage Company, Plymouth, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1927. Serial No. 174,170. 6 Claims. (Cl. 242—161.)



1. A twine cop composed of a core portion of wound twine and a body portion wound thereon; those convolutions which lie parallel and adjacent to each other and which are all in a single layer being laid apart, in said layer in the said core portion of the cop, and being laid compactly together in the said body portion.

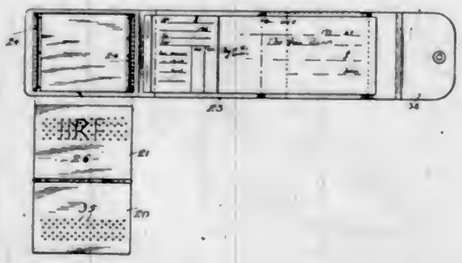
1,682,778. RADIOCHASSIS. PHILIP E. EDELMAN, Chicago, Ill. Original application filed June 5, 1922, Serial No. 566,132. Divided and this application filed Nov. 28, 1927. Serial No. 236,389. 6 Claims. (Cl. 312—7.)





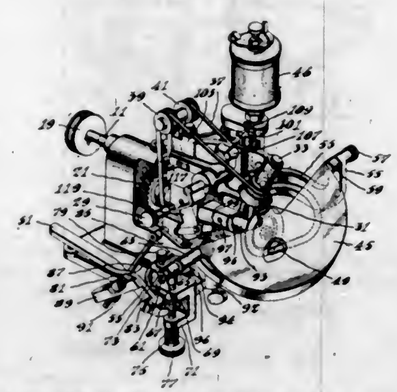
1. In a radio apparatus chassis, a supporting base, a mounting plate for apparatus parts supported on said base, and a vacuum tube supporting strip extending linearly along said base and supported thereby.

1,682,779. CHARACTERIZED CHECK PROTECTOR. HARRY R. FIELDS, Orlando, Fla., assignor to The E. T. Burrowes Company, Portland, Me., a Corporation of Maine. Filed Apr. 10, 1926. Serial No. 101,048. 6 Claims. (Cl. 101—26.)



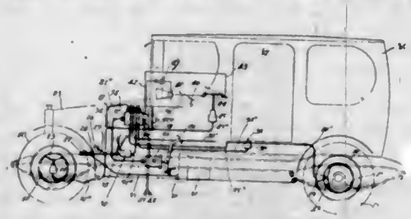
5. A characterization check protector comprising a bed plate provided with apertures and a cooperating cover plate having individualizing means for forming differing perforations at varying regular positions.

1,682,780. TRIMMING MACHINE. SIDNEY J. FINN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 27, 1925, Serial No. 12,052. Renewed Feb. 2, 1928. 15 Claims. (Cl. 164—60.)



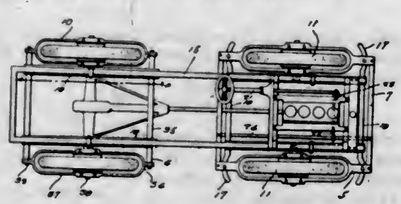
1. A machine of the class described having in combination, trimming mechanism, a work table mounted for angular adjustment to vary the angle of the trimming cut and for bodily adjustment to vary the level at which the work is presented to the trimming mechanism, and a single operator-controlled member manipulation of which may be caused to effect both adjustments.

1,682,781. MOTOR-VEHICLE CONTROL SYSTEM. JOHN J. GARDNER, New York, N. Y. Filed Apr. 16, 1926. Serial No. 102,598. 35 Claims. (Cl. 303—6.)



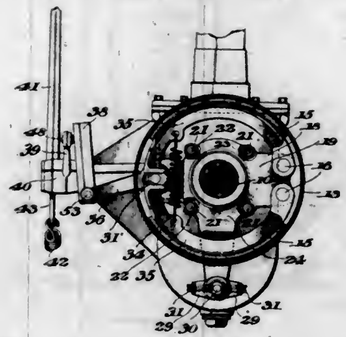
1. In a motor vehicle control system the combination of a movable actuator adapted to deliver the force for operating a plurality of terminal appliances, a controlling selector adapted to be set at will to different positions, a plurality of control devices adapted to be selectively adjusted by the selector, and transmitting connections from the respective control devices to the several terminal appliances through which the latter may be operated in a preselected manner by the movement of the actuator.

1,682,782. MOTOR VEHICLE. STEPHEN A. GIBSON, Hereford, Ariz. Filed Nov. 21, 1927. Serial No. 234,835. 3 Claims. (Cl. 280—106.5.)



1. In a vehicle of the class described comprising front and rear wheel trucks, each truck including transverse'y and longitudinally disposed truck members, each of said longitudinal members extending at each side of the adjacent vehicle wheel and providing a mounting for the axle of the wheel, and yieldable means interposed between the axles and their associated truck members.

1,682,783. MOTOR-VEHICLE BRAKE. EARL G. GUNN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 30, 1920. Serial No. 393,004. 6 Claims. (Cl. 188—78.)



2. Brake mechanism including a brake drum, a supporting member, a bracket having arms forming a bell-crank movably secured to said supporting member, brake shoes adapted to engage the drum and independently pivoted to one arm of the bracket, and means for adjustably moving the other arm of said bracket about the center of said brake drum.

1,682,784. DENTAL DRILLING APPARATUS. TRYGVE GYTHFELDT, Stjordalen, Norway. Filed Nov. 3, 1923, Serial No. 672,667, and in Norway Feb. 20, 1923. 3 Claims. (Cl. 32—10.)

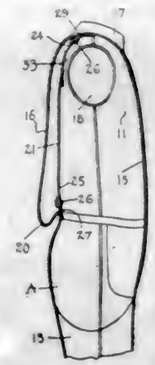


1. In combination, a drill mounted for rotation, a shell concentric with said drill and spaced therefrom, said shell having a concentric aperture in its end, said drill extending through said aperture and means on said shell for attaching vacuum producing means whereby cuttings from the drill will be sucked into the aperture and removed through the shell.

1,682,785. COVERALLS. HARRY C. HANSON, St. Paul, Minn. Filed May 9, 1927. Serial No. 189,885. 1 Claim. (Cl. 2—79.)

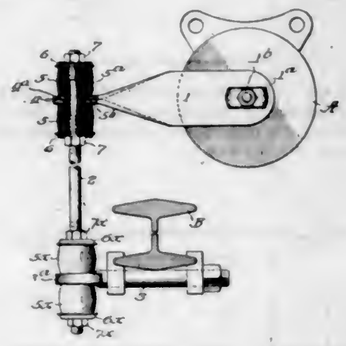
A combination outer garment comprising a trouser portion, a coat portion bloused at the back and connected to said trouser portion at the waist line, two upwardly extending tabs secured inside of the garment at the waist line, one being located on one side and one on the opposite side of the medial line of the back of said garment, downwardly extending tabs secured to the inside of the garment at the shoulder portions thereof, said tabs respectively pairing with one of said first tabs, elastic straps, one for

each pair of tabs, the straps having fastening means at the ends thereof and the tabs having fastening means complementing the fastening means of the straps, said straps,



when attached to said tabs, serving to support the back of the trouser portion independently of the back of the coat portion.

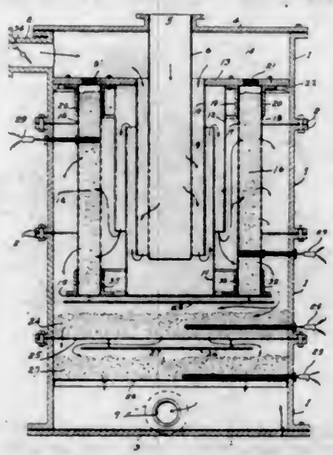
1,682,786. CONNECTER FOR SPRING BRAKES: MARK HARRIS, Birmingham, Mich., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 3, 1925, Serial No. 54,227. Renewed Apr. 14, 1928. 12 Claims. (Cl. 267—9.)



1. In a spring brake device having a load transmitting member and a connecting member, means for articulating said members consisting of an eye on one member through which the other member is inserted, and confining blocks mounted on the inserted member on opposite sides of said eye; said inserted member having freedom of angular movement in said eye, and said confining blocks permitting said angular movement while limiting longitudinal movement of said inserted member.

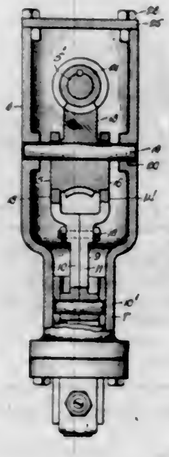
1,682,787. CATALYTIC APPARATUS. ALPHONS O. JAEGER, Pittsburgh, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Nov. 5, 1926. Serial No. 146,525. 12 Claims. (Cl. 23—288.)

1. A catalytic apparatus comprising a converter, a catalytic chamber therein, an annular catalyst layer in said chamber adjacent to the chamber wall, means for introducing reaction gases into the interior of the catalyst



annulus, and means for permitting said gases to pass through the catalyst layer at approximately right angles to the axis thereof.

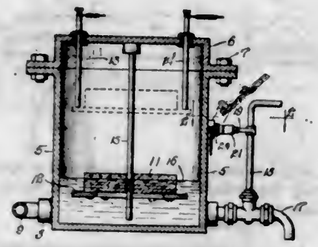
1,682,788. MOTOR AND PUMP. JOHN T. JANETTE, Chicago, Ill. Filed July 30, 1923. Serial No. 654,676. 2 Claims. (Cl. 74—14.)



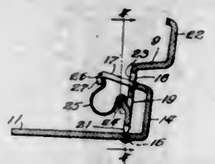
1. The combination of a piston, a gear for actuating said piston, eccentrics on said gear and a two piece eccentric rod connecting the eccentric and piston.

1,682,789. CONTROLLING APPARATUS. JOHN T. JANETTE, Chicago, Ill. Filed July 30, 1923. Serial No. 654,677. 6 Claims. (Cl. 158—42.3.)

6. In an oil burning system of the class described, having an electric circuit controlling the operation thereof, a switch located in said circuit, a safety chamber adapted to receive delivered fuel upon failure of ignition, means adapted to operate said switch and thereby stop the operation of said apparatus when a predetermined amount of fuel has entered the safety chamber, and means for draining said safety chamber operating, when in the draining position to cause the circuit to the oil burning system to be broken.

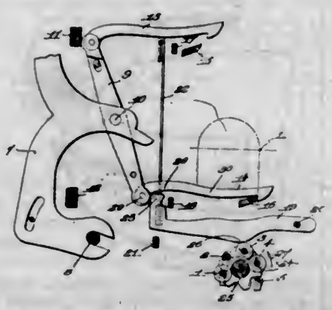


1,682,790. ELECTRICAL CONTACT. JOHN T. JANETTE, Chicago, Ill. Filed Feb. 26, 1925. Serial No. 11,782. 5 Claims. (Cl. 200—8.)



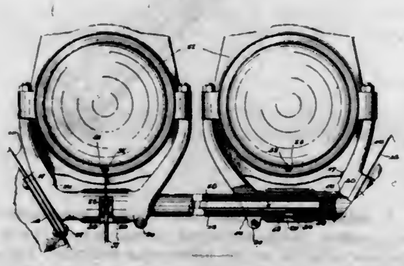
4. An electrical contact comprising a strip of metal having a main straight branch, a second branch bent at substantially right angles thereto, and a third branch which is bent back toward the main branch, the latter branch being cut away at the sides to form a tongue with shoulders at one end thereof, said main branch having grooves in the upper surface thereof, a movable member comprising an arm having a bifurcated lower end engaging with said grooves to form a pivot, and having a hole for receiving the tongue, said arm also having an outwardly projecting contact portion, a lip formed integrally with the movable member adjacent to the pivot, a substantially U-shaped spring formed of sheet metal, having one end engaging with said lip and having a slot in the opposite end for engagement with the tongue, the end of the tongue being bent over the adjacent portion of the spring when the parts are assembled, in order to lock the parts together.

1,682,791. DOBBY FOR LOOMS. JAMES T. MALLOY, Oakland, R. I., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 29, 1927. Serial No. 187,654. 4 Claims. (Cl. 139—71.)



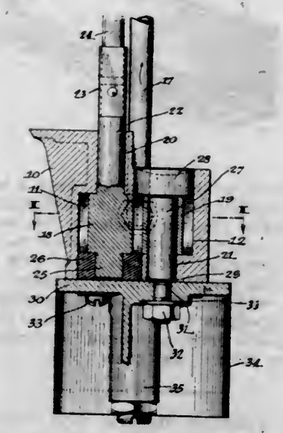
1. A single index dobby for looms having, in combination, harness jacks, dobby levers connected thereto, top and bottom dobby hooks attached to the dobby levers, top and bottom hook actuating knives, dobby fingers pivoted at one end and directly engaging the bottom dobby hooks to positively rnise them, push rods connecting the fingers with the top dobby hooks to positively raise them and a pattern chain having risers and sinkers, said bottom hooks and fingers being so shaped that a top hook may be raised by the lifting of a finger without engagement of the latter with a bottom hook to prevent camming the bottom hook from its knife as the latter moves from its outer to its inner position.

1,682,792. MOTOR VEHICLE. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 26, 1924. Serial No. 701,942. 5 Claims. (Cl. 240—41.)



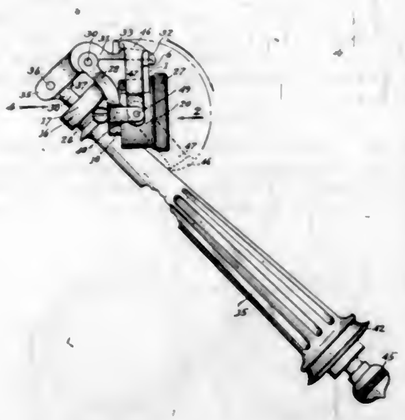
1. In a motor vehicle, the combination of a pair of lamps each mounted upon a tubular base, a tubular section connecting the tubular bases, a light projecting device mounted in each lamp, a bearing in each end of the tubular section, a rock shaft mounted in the bearings within the tubular section, levers mounted upon the rock shaft, connections between the levers and the light projecting devices and springs upon the rock shaft between the levers and the bearings.

1,682,793. INTERNAL-COMBUSTION ENGINE. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 21, 1925. Serial No. 57,529. 10 Claims. (Cl. 103—126.)



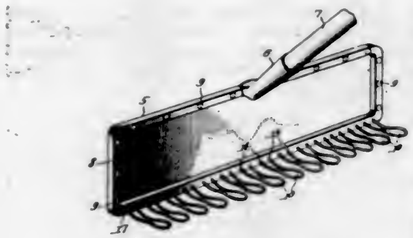
1. A gear pump comprising a casing having over-lapping cylindrical bores open at opposite ends, and openings of lesser diameter forming continuations of the bores, intermeshing gears in said bores, one of said gears having a driving stem extending through and bearing in one of said openings, a bearing member for the other end of the gear and means retaining the parts in operable position.

1,682,794. RIBBON SAFETY RAZOR. WILLIAM G. MOORE, Lankershim, Calif. Filed Nov. 11, 1926. Serial No. 147,751. 10 Claims. (Cl. 30—12.)



2. A ribbon safety razor comprising in combination, a handle, a plate rigidly connected thereto, a pair of cup like containers mounted on the plate, each container having a slot, and one being a supply container, a coil of ribbon sharpened on one edge mounted in one of the containers, a guard, means connecting same to the plate, the ribbon passing over the guard and through the slot in the other container, and means to coil the used ribbon in said latter container.

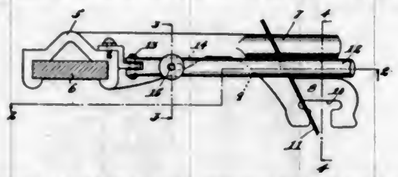
1,682,795. RAKE. ALBERT MORGAN, Indianapolis, Ind. Filed Dec. 20, 1926. Serial No. 155,954. 1 Claim. (Cl. 55—10.)



A rake frame having a frame-like head, a handle at an angle to the frame at one of its longitudinal edges, an apron secured to the frame enclosing the opening in the frame, teeth comprising lengths of metal shaped to form loops constituting the outer ends of the teeth, the ends of the metal being extended through the frame and secured thereto, the said teeth being convex and projecting from the frame approximately at right angles at the side from which the handle projects, the said teeth including means for anchoring them to the frame.

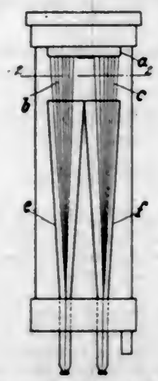
1,682,796. TENSION DEVICE FOR WINDING MACHINES. WALTER E. OLSON, Chicago, Ill. Original application filed Mar. 24, 1924, Serial No. 701,407. Divided and this application filed June 1, 1925. Serial No. 34,031. 1 Claim. (Cl. 242—149.)

A device of the class described comprising a bracket, two adjacent parallel guide members on said bracket and adapted to support a thread running freely on the surface thereof both transversely and longitudinally of said guide members, one of said guide members being formed with a lateral extension provided with a guide notch, a clamping member pivoted to the bracket to swing into and out of



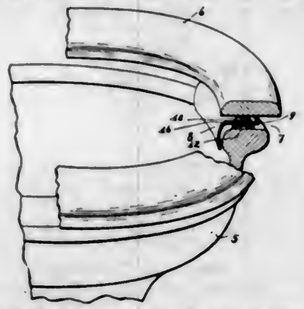
the space between said guide members and a spring yieldingly holding the clamping member in said space, substantially as described.

1,682,797. APPARATUS FOR SPINNING ARTIFICIAL SILK. GUSTAV OTTO, AUGUST HARTMANN, and GOTTHARD BAURIEDEL, Barmen, Germany, assignors, by mesne assignments, to American Bemberg Corporation, a Corporation of Delaware. Filed Mar. 23, 1925, Serial No. 17,811, and in Germany May 30, 1924. 6 Claims. (Cl. 18—8.)



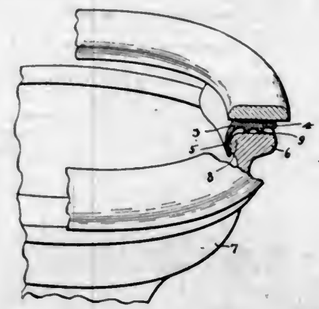
1. A device for spinning artificial silk comprising in combination a nozzle for introducing a viscous spinning fluid into a casing, means for introducing a precipitating fluid into said casing, means for dividing the bundle of filaments coming from said nozzle into a plurality of bundles and means for keeping the divided bundles separate as they go through and pass out of the casing together with the precipitating liquid.

1,682,798. TOILET-BOWL ATTACHMENT. ITHIEL CHARLES RICHARDS, Los Angeles, Calif. Filed Nov. 3, 1927. Serial No. 230,838. 3 Claims. (Cl. 4—237.)



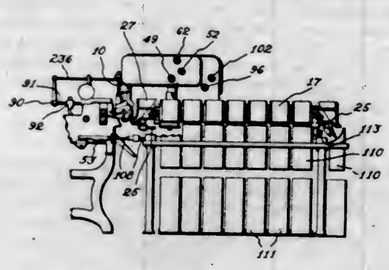
1. In a toilet bowl attachment, an apron shaped to extend from the underside of a toilet seat to within a bowl of a water-closet, and vacuum cups projecting from the underside of the apron adapted to be applied to the top edge of a water-closet bowl.

1,682,799. SANITARY CUSHION APRON. ITHIEL CHARLES RICHARDS, Los Angeles, Calif. Filed Nov. 3, 1927. Serial No. 230,839. 2 Claims. (Cl. 4—237.)



1. In a sanitary cushion apron for a toilet seat and bowl, an apron portion extending from the underside of the toilet seat into the toilet bowl to overlap the space between the seat and the bowl, and a flange portion extending from the apron portion between seat and bowl and including vacuum cups formed on the underside of the flange portion adapted to adhere to the top of the bowl when pressed upon the bowl.

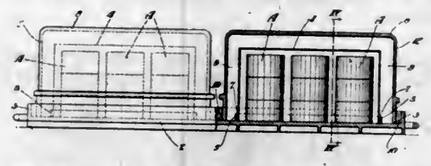
1,682,800. MACHINE FOR OPERATING ON BLANKS. WILLIAM THOMAS BUCKINGHAM ROBERTS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 13, 1922, Serial No. 543,438, and in Great Britain Mar. 22, 1921. 17 Claims. (Cl. 209—90.)



1. The combination with mechanism for operating upon blanks in accordance with their thicknesses to change a characteristic thereof, of mechanism for distributing the blanks in accordance with their thicknesses as determined by the operating mechanism comprising an endless conveyor and receptacles mounted thereon, and a feeder adapted to receive the blanks one by one from the operating mechanism and deliver them to successive receptacles of the distributing mechanism.

1,682,801. APPARATUS FOR ANNEALING. JAMES E. ROBERTSHAW, Bedford, Ohio, assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Apr. 2, 1927. Serial No. 180,526. 1 Claim. (Cl. 263—49.)

Apparatus for bright annealing comprising, in combination, a base for supporting the material to be annealed, at least one cover member supported on said base and adapted to cover the material to be annealed, an annular seal retaining ring secured to and spaced from the side wall of said cover at its bottom edge, a seal of granular ferrous metal between said ring and said cover and forming a sealed joint between said cover and said base, a second cover enclosing said first named cover, and a seal of granular material around the lower edge of said second named cover to form a sealed joint between said base and said cover.

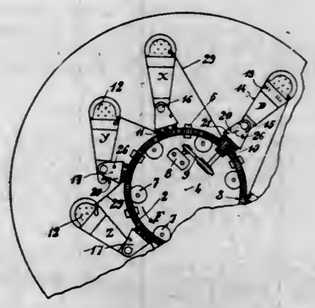


1,682,802. LINOLEUM-VENDING MACHINE. LOUIS P. ROSE, Arnold, Nebr. Filed June 29, 1926. Serial No. 119,338. 2 Claims. (Cl. 242—72.)



1. An expansible linoleum roll comprising spaced supports, a tubular member rotatably mounted in bearings of the support, a plurality of longitudinally disposed outwardly movable parallel strips adjacent the periphery of the tubular member, links carried by said strips and pivotally connected to the tubular member, said links being in crossed relation, a longitudinally movable threaded sleeve mounted on the tubular member, links connected between said sleeve and the strips, a second sleeve mounted on the tubular member, opposed threads carried by said sleeves, a longitudinally disposed stationary gripping strip to the outside of one of said first named strips, means carried by the gripping strip and extending through elongated openings in one of the strips and anchored to the tubular member, one of said first mentioned outwardly movable strips cooperating with the inner side of the gripping strip upon outward movement, and a member threaded on said sleeves and forming means whereby one of said sleeves is axially moved.

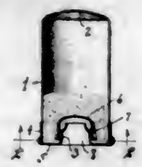
1,682,803. AMUSEMENT DEVICE. OCTAVE ROUGE, Paris, France. Filed Apr. 12, 1927, Serial No. 183,064, and in France Apr. 15, 1926. 1 Claim. (Cl. 272—43.)



In a device of the kind described, in combination with a member rotatable about a center, a plurality of chairs rotating with said member and adapted to roll on a horizontal surface, a connection between each of said chairs and said member including a vertical pivot, and a flexible connection for each chair having one end secured to said member at a

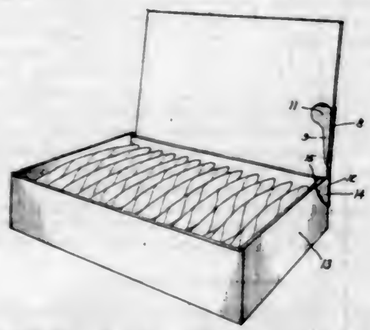
point spaced from the connection of the respective chair with said member and having its other end within reach of the occupant of the respective chair, whereby the occupant can draw the chair more or less close to said center of rotation.

1,682,804. SALT SHAKER. JOHN R. SEARIGHT, Birmingham, Mich. Filed Aug. 22, 1927. Serial No. 214,647. 4 Claims. (Cl. 65—45.)



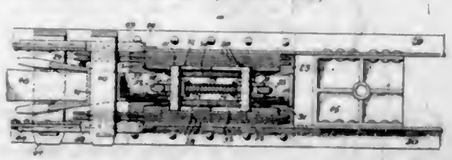
1. In combination, a cylindrical body having a closed upper end, an annular member attached to the open lower end and having an attached central inwardly extending tubular member, and a cap member having a fluted skirting so mounted on and attached to the tubular member as to leave passages between them extending from the inside of said body along the annular member to the upper edge of said tubular member.

1,682,805. COVER HOLDER. GUSTAF A. SELVIG, Minneapolis, Minn., assignor, by mesne assignments, to Northern Equipment and Supply Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 13, 1924. Serial No. 743,375. 1 Claim. (Cl. 217—61.)



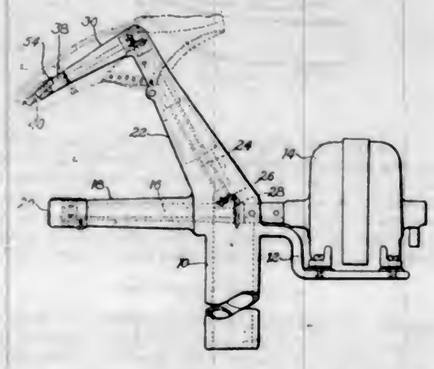
A holder for a hinged box-cover, comprising an upright member bent laterally to form an upright flange along one edge and having the upper portion of said flange bent to lie parallel with the first mentioned upright member to form a channel portion, the lower portion of the flange having an offset portion and an integral extension having a portion bent downwardly parallel with the extension and connected thereto by a bridge portion.

1,682,806. FRICTION DRAFT GEAR. CLIFTON W. SHERMAN and JOSEPH M. HALL, Hamilton, Ontario, Canada, assignors to Hall Draft Gear Corporation, Buffalo, N. Y., a Corporation of New York. Filed July 17, 1926. Serial No. 123,100. 9 Claims. (Cl. 213—22.)



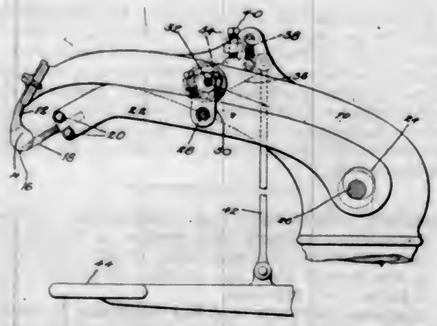
1. A friction draft gear comprising intercalated friction plates, some of said plates being relatively stationary and others being movable lengthwise of the stationary plates, and means for pressing said plates tightly together during a compression stroke and releasing the pressure during the return of the parts to normal position, including shoes engaging said plates, a plunger movable lengthwise of said shoes, and forwardly and rearwardly facing inclines arranged on said plunger and engaging with correspondingly facing inclines on said shoes.

1,682,807. MACHINE FOR REMOVING PROJECTING TACKS FROM THE INTERIOR OF BOOTS AND SHOES. ORIN L. SMITH, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 13, 1926. Serial No. 81,006. 17 Claims. (Cl. 12—84.)



12. In a machine of the class described, the combination of a fixed casing having pointed peripheral projections closely spaced to admit between them a single projecting tack, and a rotary disk set in the casing with its outer face substantially flush with the projections, the margin of the outer face of the disk having cutting teeth to engage the tack, said teeth being prevented from digging into the work by the projections.

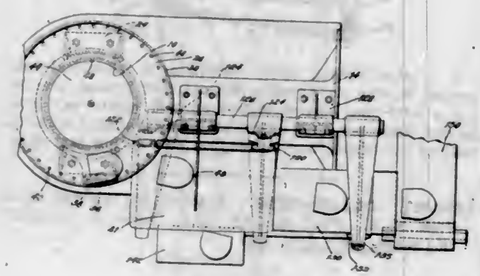
1,682,808. TACK-PULLING MACHINE. CLEVELAND N. SPINNEY, Harrisburg, Pa., and FRED L. MACKENZIE, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 30, 1925. Serial No. 26,953. 17 Claims. (Cl. 12—16.)



1. In a tack-pulling machine to which work may be manually presented by an operator, a member movable toward and away from the operator to pull tacks, and

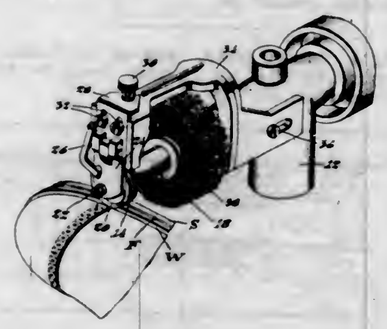
means arranged to move the pulling member independently of its pulling movement during the operation of the machine.

1,682,809. SORTING MACHINE. WILLIAM C. STEWART, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 24, 1922. Serial No. 596,650. 17 Claims. (Cl. 198—33.)



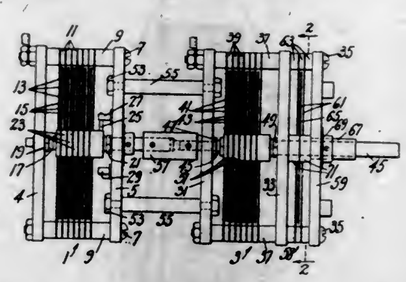
1. In a machine of the character described, means for receiving blanks from a source of supply and for turning certain of the blanks and delivering all of them with a given side facing upwardly, in combination with means subsequently operative for arranging the blanks with their long axes pointing all in the same direction.

1,682,810. MACHINE FOR OPERATING ON SHOES. HAROLD S. SWAIN, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 22, 1921. Serial No. 494,127. 8 Claims. (Cl. 12—17.)



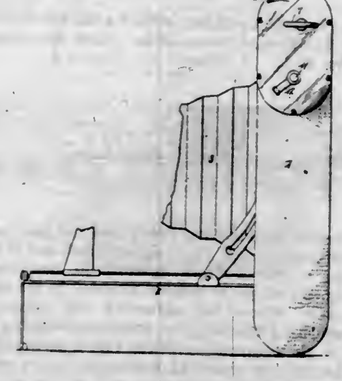
1. A machine for use in finishing welt shoes of the type having an insert between the welt and the outsole comprising, in combination, a cleaning disk having a periphery of a width equal to the thickness of the insert for operating entirely around the edge of the shoe bottom after trimming to clean the edge of the insert, and a gage disk arranged in a plane parallel to the plane of the cleaning disk and having its periphery projecting beyond the periphery of the cleaning disk for engagement within the welt crease of the shoe to guide the shoe as it moved relatively to the cleaning disk, the gage disk being spaced laterally from the cleaning disk a distance substantially equal to the thickness of the welt to register the edge of the insert with the periphery of the cleaning disk.

1,682,811. ELECTRICAL CONDENSER. ARTHUR L. TERRY, Jr., Wellesley Hills, Mass., assignor to Warren G. Ogden, Quincy, Mass. Filed Oct. 18, 1924. Serial No. 744,387. 10 Claims. (Cl. 175—41.5.)



1. The combination of two tuning condensers operated mechanically as a unit, one of which has a value less than the other at all settings, and a variable balancing condenser having a value equal at least to the maximum difference in value between said two tuning condensers and connected in parallel with the tuning condenser of lesser value.

1,682,812. FILM-FEEDING MEANS FOR CAMERAS. EUGENE C. THOMPSON, Los Angeles, Calif. Filed Apr. 14, 1923. Serial No. 632,031. 3 Claims. (Cl. 95—31.)

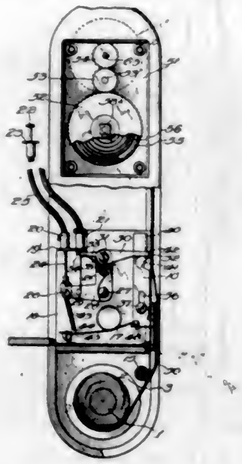


1. In a camera provided with lens and a shutter, the combination with a winding spool for receiving a film, manually operated means for winding the blank or protecting portion of the film upon said spool, spring actuated mechanism for automatically advancing the sensitized sections of the film, latch mechanism adapted to engage each sensitized section of the film to directly lock the same against movement, means for actuating the camera shutter, means operable simultaneously with the release of the shutter actuating means for releasing said latch mechanism and means associated with said latch mechanism for rendering said shutter operating means inoperative until said latching mechanism has assumed a locking position with respect to the next succeeding sensitized film section.

1,682,813. CAMERA. EUGENE C. THOMPSON, Los Angeles, Calif. Filed June 10, 1925. Serial No. 36,070. 3 Claims. (Cl. 95—31.)

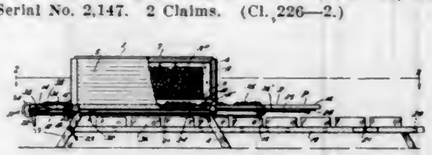
1. In a roll film camera adapted to receive a film perforated at intervals and a paper backing therefor imperforate except for a slit at a point near and over the initial

end of the film, the combination with a latch having a projection adapted to engage the perforations in the film, means for controlling the engagement and disengagement



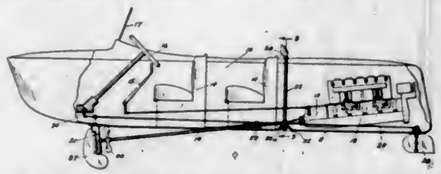
of said latch projection, means for separating said film and paper backing, means for causing said latch projection to pass intermediate said film and paper backing so as to permit said latch to engage perforations in the film only.

1,682,814. CANDY COOLING AND PACKING MACHINE. GEORGE TRIFELOS, Canton, Ohio. Filed Jan. 13, 1925. Serial No. 2,147. 2 Claims. (Cl. 226—2.)



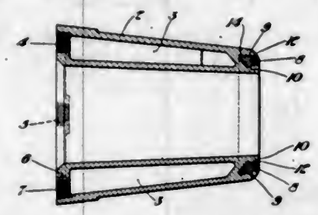
2. Apparatus for handling candy and the like including a tray conveyor operable by a rotatable roll, and delivering to a table, a tray delivery aperture in the table, and retractable tray supports slidably mounted in the aperture, and operative means for advancing the conveyor and instantaneously retracting the supports including a cam mounted on the conveyor operating roll, a push rod spring pressed against the cam and connected to one end of a pivotally mounted lever, the other end of the lever being linked to the supports.

1,682,815. BOAT. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 3, 1924. Serial No. 753,552. 9 Claims. (Cl. 115—34.)



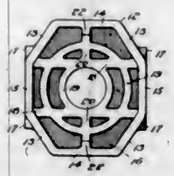
9. In a motor boat, in combination, a hull, an engine mounted in the stern of said hull, a forwardly extending propeller shaft connected to the engine, a propeller on said shaft near the bow end of said hull, and a rudder mounted immediately aft of said propeller.

1,682,816. TUYÈRE. GEORGE W. VREELAND, Steubenville, Ohio. Filed July 8, 1927. Serial No. 204,356. 3 Claims. (Cl. 266—41.)



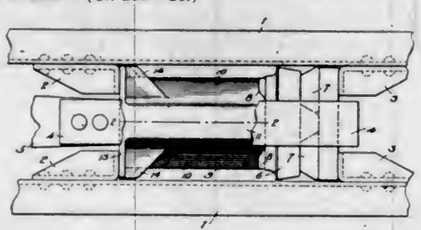
1. A blast furnace tuyère comprising a cylindrical body portion having an annular water-jacket formed therein, and a solid nose portion formed on said tuyère, said nose portion being composed of a shell formed integral with the body of the tuyère, and a cast iron ring within said shell.

1,682,817. DRAFT GEAR. EDMUND H. WALKER, New York, N. Y. Filed Jan. 18, 1923. Serial No. 613,356. 12 Claims. (Cl. 213—26.)



1. In a draft rigging, the combination with the draft sills, of a horizontally disposed yoke slidably connected thereto, means engaging the closed end of said yoke to limit movement thereof in one direction, cushioning mechanism within said yoke including a spring barrel, said barrel having a closed end adapted to conform to and fit within the closed end of said yoke, and means for reinforcing the closed end of said barrel, said means including a plurality of circularly arranged ribs.

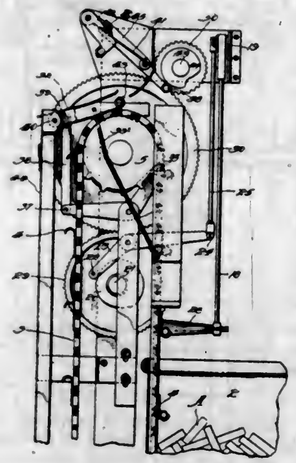
1,682,818. DRAFT GEAR. EDMUND H. WALKER, New York, N. Y. Filed Jan. 18, 1923. Serial No. 613,357. 9 Claims. (Cl. 213—26.)



1. In a draft rigging, the combination with a separable friction head, of a spring barrel for cooperating with said head, said barrel comprising an octagonal casting having a pair of side walls engaging said head beyond said friction faces, said side walls being of greater thickness than the adjacent walls of said casting, and means integral with said walls for closing one end of said barrel.

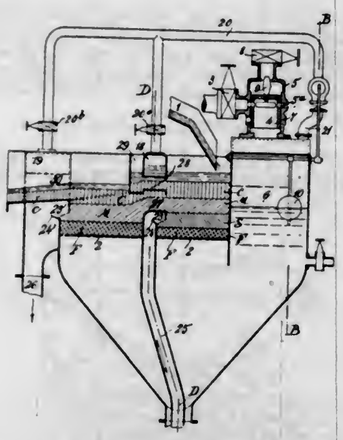
1,682,819. HAIRPIN-BOX MACHINE. FREDERICK D. WILLI, Chicago, Ill., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill., a Corporation of West Virginia. Filed Mar. 15, 1923, Serial No. 625,231. Renewed Feb. 16, 1928. 5 Claims. (Cl. 226—2.)

1. In a machine of the character described, in combination a container for box partitions, a chute, a traveling conveyor for transferring the partitions from the container to the chute, an intermediate pivoted element between the conveyor and chute functioning in timed relation with the



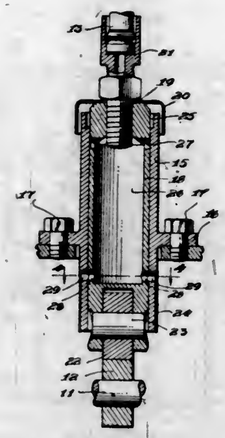
conveyor to transfer the partitions from the conveyor to the chute, and means for positively ejecting the partitions from the conveyor carriers into the intermediate element.

1,682,820. WASHING APPARATUS FOR COALS. PHILIPPE WOLF, Paris, France. Filed Oct. 22, 1923, Serial No. 670,055, and in France Oct. 24, 1922. 4 Claims. (Cl. 209—491.)



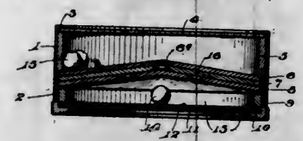
1. In an apparatus for washing coals, the combination with a vat and a piston chamber communicating at the bottom thereof with said vat, said chamber and vat containing water at a desired level, of means for introducing compressed air into said chamber and discharging same therefrom to produce pulsation comprising an automatic valve, means for dividing the washing bed into three parts, a compression chamber and means controlled by the amplitude of the pulsations for placing said compression chamber in communication with the atmosphere or shutting it off and placing it in communication with piston chamber.

1,682,821. INTERNAL-COMBUSTION ENGINE. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 8, 1922. Serial No. 559,446. 4 Claims. (Cl. 123—90.)



3. In an internal combustion engine, the combination with the crank case, of a guide mounted thereon and having a lubricant well at its upper end and ports near its lower end within the crank case, a push rod mounted in the guide and having an interior passage which communicates with the guide well at the upper extreme movement of the push rod only and which communicates with said ports when the push rod is in its lowest position only.

1,682,822. GAME. MAURICE ALLAND, Atlantic City, N. J. Filed Jan. 10, 1928. Serial No. 245,672. 5 Claims. (Cl. 273—113.)

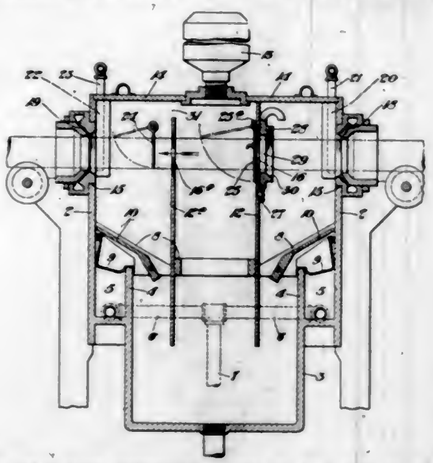


2. A game, comprising a cylindrical casing having an inturned marginal flange, a transparent closure member adjacent to said flange, a liner within said casing and abutting against said closure member, a removable partition resting against said liner and having a recess, a player member between said partition and said closure and movable into said recess, and a removable closure for the opposite end of said casing, normally securing said partition in operative position and providing a storage space for reserve players beneath said partition.

1,682,823. COATING APPARATUS. PAUL J. BARORD, Dormont Borough, Pa., assignor to The Sterling Varnish Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 26, 1927. Serial No. 215,710. 9 Claims. (Cl. 91—44.)

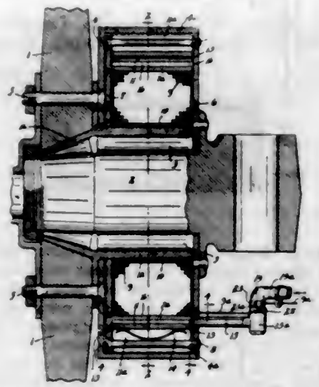
5. In an apparatus for coating the surface of an object with fluid coating material comprising, in combination, a coating chamber, a coating nozzle at one end of said chamber, a wiping nozzle at the other end of said chamber, means for supplying coating fluid to said coating nozzle, and means for supplying gaseous fluid to said wiping nozzle, a baffle plate arranged transversely of said coating chamber and adapted to prevent the passage of gaseous fluid from said wiping nozzle into the path of the coating fluid being

discharged from said coating nozzle, said baffle plate being provided with an aperture of sufficient size to permit the largest sized object to be coated to pass freely therethrough, a reducing plate having an aperture of less size therein,



said plate being removably mounted on said baffle plate so as to partially close the aperture in said baffle plate, and a yieldable closure for said aperture in said baffle plate, said closure being adapted to be opened by the object being coated as said object passes through said aperture.

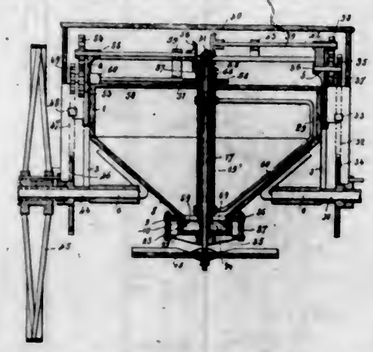
1,682,824. COMBINATION AIR AND ELECTRIC BRAKE. MICHAEL BECK, Minneapolis, Minn. Filed Dec. 26, 1923. Serial No. 682,676. 7 Claims. (Cl. 188—152.)



5. The combination with the wheel and the axle of a vehicle, of a brake drum secured to said wheel having a substantially cylindrical flange, braking means within said flange and adapted to move outward against the same to give a braking effect, a member disposed in said drum and carrying magnetic means for moving said braking means against said flange, and also forming an air chamber inwardly of said braking means, and means for delivering air into said chamber to move said braking means outward against said flange to give a braking effect.

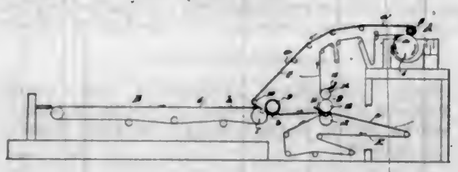
1,682,825. MACHINE FOR DISTRIBUTING FERTILIZER, SEEDS, AND GRAIN. RENÉ BERGERIOUX, Issoudun, France. Filed Aug. 19, 1925, Serial No. 51,080, and in France Dec. 19, 1924. 5 Claims. (Cl. 275—8.)

1. A machine for distributing fertilizer, seeds and grain, including a container, a plurality of shafts extending through said container and arranged concentrically one within another, a gear train for driving said shafts independently of each other, a stirrer in said container ro-



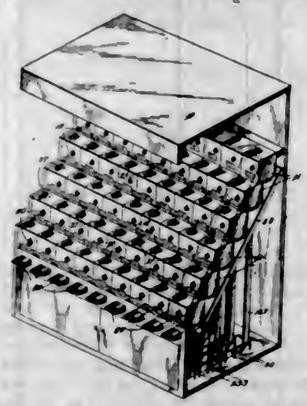
tated by one of said shafts, a distributor operated by another of the shafts, and a horizontal projector actuated by the remaining shaft.

1,682,826. METHOD OF AND APPARATUS FOR MAKING MULTIPLY PAPER. GEORGE L. BIDWELL, Riegelsville, Pa., assignor to The Warren Manufacturing Company, Riegelsville, N. J., a Corporation of New Jersey. Filed Aug. 4, 1925. Serial No. 48,057. 13 Claims. (Cl. 92—39.)



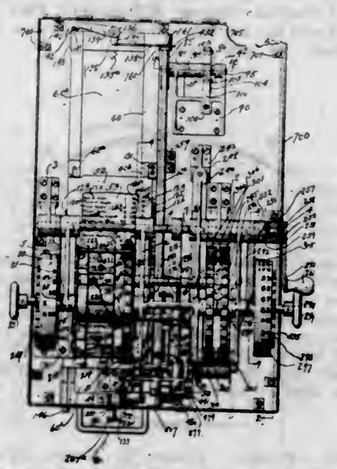
1. The method of making a multi-ply paper which comprises forming a plurality of wet paper webs, successively picking up the webs upon a pick-up felt, and passing the pick-up felt with the webs superimposed upon its under side to and through a suction press in contact with a bottom wet felt.

1,682,827. METHOD OF COMMODITY CONTROL. HARRY RUSSELL BRAND, New York, N. Y. Filed Mar. 20, 1919. Serial No. 283,817. 10 Claims. (Cl. 234—1.)



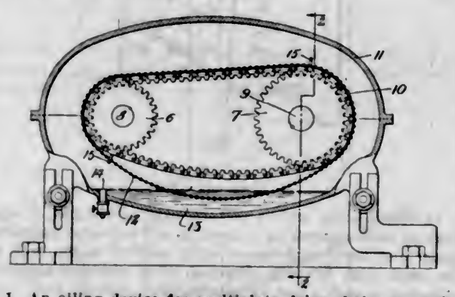
1. In the art of food control, the method which consists in positioning a card and then marking said card to form a record thereon, and, simultaneously therewith, marking upon a strip indicating characters, ejecting a token corresponding to the item marked on said card and announcing at a distance the order indicated by the marking on said card.

1,682,828. MECHANISM AND METHOD FOR CONTROLLING BUSINESS. HARRY RUSSELL BRAND, New York, N. Y. Filed Mar. 27, 1923. Serial No. 628,028. 2 Claims. (Cl. 234—1.)



1. In a recording mechanism including means for presenting in a desired relation a transaction record having a perforation thereon relating to a transaction which perforation is recognizable by another machine, means for perforating said record so that said first mentioned perforation will not be recognized by said other machine.

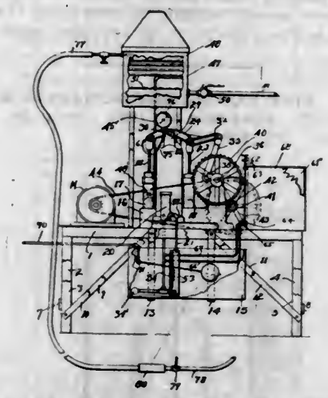
1,682,829. OILING DEVICE FOR DRIVE CHAINS. NORMAN C. BREMER, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a Corporation of New York. Filed July 13, 1926. Serial No. 122,072. 8 Claims. (Cl. 184—15.)



1. An oiling device for multiplate drive chains comprising a light chain passing around the drive chain, the sag of the slack run of which is greater than the sag of the slack run of the drive chain, and a reservoir containing lubricant through which the slack portion of the light chain passes.

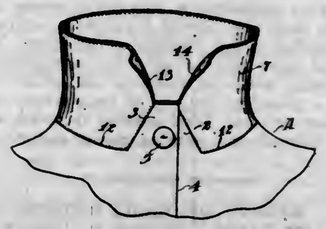
1,682,830. AUTOMOBILE CLEANING SYSTEM. RALPH B. BUSBY and LEE B. SAMANSKI, Oakland, Calif. Filed Apr. 8, 1926. Serial No. 100,472. 1 Claim. (Cl. 299—83.)

An automobile cleaning system comprising a frame, a high pressure pump mounted on said frame, an automatic pressure regulating relief valve on said pump, a fresh water tank mounted in said frame below said pump, a suction pipe extending from said pump to the bottom of said tank, a vertical opn end overflow pipe connected to said suction pipe, a pipe establishing communication be-



tween said automatic relief valve and said overflow pipe, a soap tank mounted on said frame and having a pipe connection to said suction pipe, a distillate tank having a pipe connection to said suction pipe.

1,682,831. GARMENT COLLAR. SAMUEL CAGAN and WILLIAM S. NEAD, Stillwater, Minn. Filed Feb. 7, 1927. Serial No. 166,420. 2 Claims. (Cl. 2—98.)



1. In combination with a garment having a neck opening therein and having a separable opening extending down a side of said garment, and having an upwardly projecting portion adjacent each edge of said separable opening, said projection being integral with the body of the garment, of a collar connected to the neck opening of said garment and having the ends thereof connected to the edges of said upwardly projecting portions of said garment.

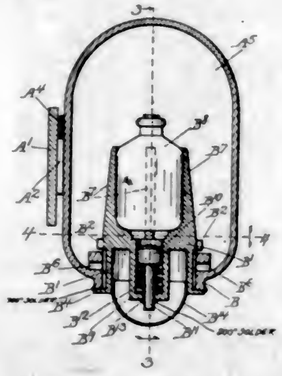
1,682,832. DOLL. IRWIN COHN, New York, N. Y., assignor to Irwin & Company, Inc., New York, N. Y., a Corporation of New York. Filed June 4, 1927. Serial No. 196,441. 1 Claim. (Cl. 46—40.)



A doll comprising a body and head portion formed of celluloid, a transparent celluloid bottle disposed exterior of the body and having a projection provided with a re-

stricted outlet, a container hidden within the body of the doll and connected to said restricted outlet portion of the bottle, said bottle and container being supported by the walls of the doll, and dry finely ground marble within the bottle and adapted to flow into the container when the doll is tilted from normal position, the flow being at a speed controlled by the diameter of the restricted bottle outlet.

1,682,833. FIRE EXTINGUISHER. CHARLES W. DAKE, Chicago, Ill. Filed May 11, 1925. Serial No. 29,291. 2 Claims. (Cl. 169—27.)

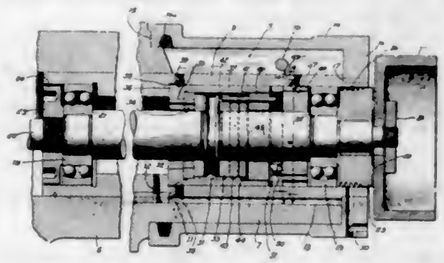


1. In an automatic fire extinguisher, an outer casing, and means for supporting it, said casing having an aperture in the lower part thereof, a closure for said aperture and a securing means therefor, a container, mounted within said outer casing, and a fire extinguishing substance therein, means for releasing said substance in response to a predetermined rise in temperature, said substance, when released, being adapted to create sufficient pressure to break the securing means and release the closure.

1,682,834. METHOD OF MANUFACTURING STRAW PULP AND PAPER. CHARLES H. DEDRICK, Drexel Hill, Pa., assignor to Philadelphia Quartz Company, a Corporation of Pennsylvania. Filed Jan. 6, 1925. Serial No. 803. 11 Claims. (Cl. 92—9.)

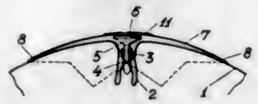
1. In the manufacture of paper the method of preparing the pulp which comprises cooking with silicate of soda, beating with cooking liquor, and then sizing.

1,682,835. TOOL-SPINDLE FIXTURE. GERARD A. DE VLIEG, Rockford, Ill. Filed Oct. 14, 1925. Serial No. 62,339. 13 Claims. (Cl. 308—161.)



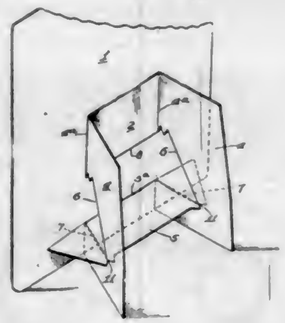
10. Means for limiting end play of a rotary element comprising two abutments between which said element is held against axial movement, one of said abutments being movable, and means governed by the degree of friction between said movable abutment and said rotary element for controlling the pressure of said movable abutment against said element.

1,682,836. CLOSURE MEANS FOR INFLATABLE HOLLOW RUBBER BODIES. ISTVÁN DOROGI and LAJOS DOROGI, Budapest, Hungary, assignors to Dr. Dorogi és Társa Gummigyár R. T., Budapest-Albertfalva, Hungary, a Limited Company of Hungary. Filed Dec. 20, 1927, Serial No. 241,403, and in Germany Jan. 17, 1927. 5 Claims. (Cl. 273—65.)



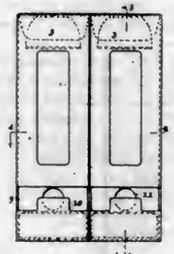
1. Closure means for inflatable hollow rubber bodies characterized by the inflating nipple, which may be closed by a plug provided with a button shaped head, being covered by an elastic rubber covering which forms a part of the outer wall of the hollow body and has an expansible opening, which allows the inflating nipple to be introduced but which in the unstretched condition is smaller than the head of the closure plug.

1,682,837. EASEL. ALBERT W. ENGEL, Chicago, Ill. Filed Apr. 15, 1927. Serial No. 183,935. 1 Claim. (Cl. 40—150.)



In combination with a picture, card or the like, a supporting easel comprising a sheet of stiff material including upper and lower attachment areas secured to the back of the card with laterally disposed wing portions hingedly attached to said areas at substantially vertical axes, and thus adapted to swing back from the plane of the card; together with a brace member formed within the area of the sheet and hingedly joined thereto along a horizontal axis, the area utilized to form said brace extending into said wing portions and providing openings adjacent their hinge axes in which said brace may be swung outwardly from the back of the card, the outline of each of said openings opposite the hinge axis of the wing being substantially the cord of an arc centered in the hinge axis of the brace, while the length of said brace from its hinge axis to its point of contact with the wing in operative position is equal to the radius of said arc, whereby the brace must be flexed in swinging it into operative position and is yieldingly locked therein.

1,682,838. PLURICELLED CONTAINER. HERMAN A. FEIGELMAN, Paterson, N. J. Filed Mar. 31, 1927. Serial No. 179,914. 8 Claims. (Cl. 206—44.)



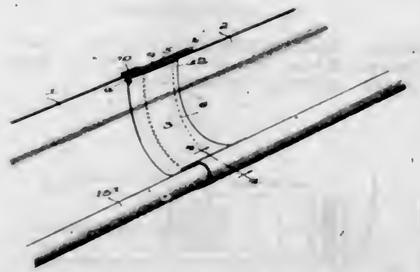
1. A pluri-celled container including a blank of stiff sheet material having its intermediate portion a flat panel and portions directly opposite each other and forming its extremities and arranged on opposite sides of the panel bent first toward each other and then toward the panel to form cells and each having a penetrating interlocking engagement with the panel.

1,682,839. END CLOSURE FOR PAPER BAGS. LOUIS J. FINN, Peoria, Ill., and PHILIP E. MORRILL, St. Louis, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a Corporation of Missouri. Filed May 24, 1926. Serial No. 111,179. 5 Claims. (Cl. 229—53.)



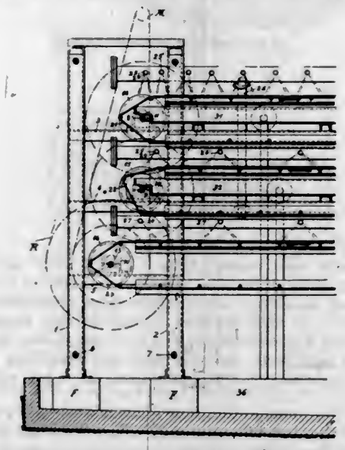
1. A multiple-wall container having reinforced end closures formed of extensions of the walls of the container, said extensions of an unequal number being folded over and upwardly along the opposite sides of the container, and means to secure in their folded position the extensions of the walls of the container.

1,682,840. GUTTER JOINT. JOHN W. FOERCH, Jr., Wilkes-Barre, Pa. Filed Apr. 12, 1927. Serial No. 183,095. 2 Claims. (Cl. 108—28.)



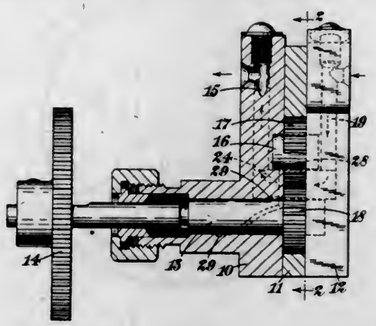
1. A gutter joint comprising a member so bent upon itself as to form an outer underlying portion, an inner overlying portion, and an intermediate portion, said portions forming oppositely opening pockets for the reception and retention of the adjoining ends of gutter sections, the overlying portion being shorter than the intermediate portion and extending obliquely across said portion whereby ledges of substantially triangular shape are presented to provide entry rests for the ends of the gutter sections, said ledges being offset outwardly from the outer and intermediate portions respectively whereby the entry of the gutter ends into the pockets is facilitated.

1,682,841. PROCESS OF AND APPARATUS FOR CLEANING TEXTILE GOODS. CONRAD J. FAÜH, Zurich, Switzerland. Filed June 25, 1926, Serial No. 118,832, and in Germany July 2, 1925. 7 Claims. (Cl. 8—19.)



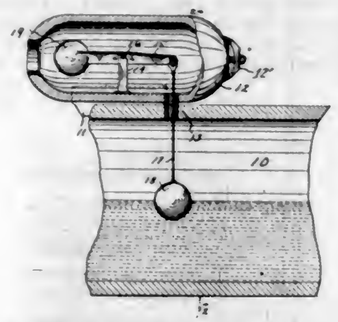
1. The method of treating a textile fabric to the action of a cleansing liquid, which consists in conveying the fabric through a plurality of courses at progressively decreasing speeds, and spraying the fabric with the liquid on each course.

1,682,842. ROTARY PUMP AND THE LIKE. JAMES HENRY HAMER, Bolton, England, assignor to James Lever Rushton, Bolton, Lancashire, England. Filed May 27, 1927, Serial No. 194,726, and in Great Britain Mar. 29, 1927. 10 Claims. (Cl. 103—126.)



1. A rotary pump or the like comprising two toothed pumping wheels meshing with each other, a casing in which the said wheels are mounted which closely fits the faces, and a portion of the outer periphery, of each wheel and has a relief passage extending from a position communicating with the clearance space between the crown of each tooth in turn and the base of the space between two teeth of the other wheel in which the fluid is trapped at the meshing point of the wheels during operation of the pump, and means whereby fluid is led from the aforesaid relief passage to the mounting for one of the said toothed wheels to serve as the lubricant therefor.

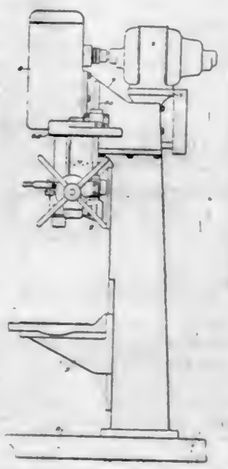
1,682,843. WATER-LEVEL INDICATOR. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed June 17, 1924. Serial No. 720,503. 8 Claims. (Cl. 73—82.)



1. A water level indicator for a steam boiler having a steam and water drum, said indicator comprising a chamber, a steam connection between said drum and chamber, a balance lever in said chamber, a float in said drum and positioned in the water therein, and a suspension member connecting said lever and said float and extending freely through the steam connection between the drum and said chamber.

8. In a water level indicator for steam boilers, a steam and water drum, an auxiliary drum mounted on top thereof, means connecting said auxiliary drum to the steam space of the steam and water drum, a lever in the auxiliary drum having a counterweight, a vertical connecting member on said lever and extending through said connection to a float in said steam and water drum, a continuous indicator, and connections whereby said indicator is operated by movement of said lever.

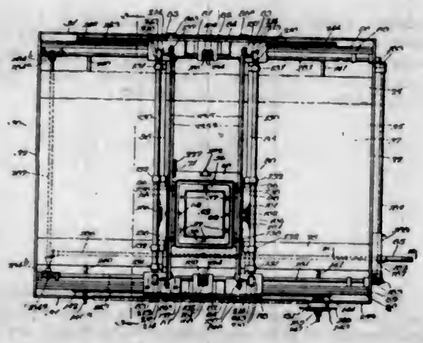
1,682,844. BOX-COLUMN-TYPE UPRIGHT DRILL. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 4, 1925. Serial No. 34,829. 34 Claims. (Cl. 77—5.)



1. In an upright drill, the combination comprising a drill spindle having a back-gear sleeve and a reversing sleeve aligned therewith, said back-gear sleeve being splined to said drill spindle; a back-gear shaft having an operative connection to the reversing sleeve at one end thereof and an operative connection to the back-gear sleeve at the opposite end thereof, said connections to the back-gear shaft being constructed to provide changes in speed; and a motor connected to the reversing sleeve.

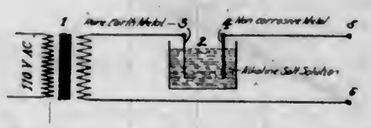
25. In an upright drill, the combination comprising a drill spindle; a motor for operating said spindle; mechanism comprising a back-gear shaft for connecting the motor to the spindle; a casing for enclosing and for supporting said mechanism; a lubricating well formed in the bottom of said casing; a lubricating pump secured to and operated by said back-gear shaft, said pump projecting into said lubricating well; and an outlet pipe connected to said pump and extending to top of said casing for delivering lubricating material over said mechanism.

1,682,845. PHOTO-COMPOSING MACHINE. ALEXANDER T. KOPPE, Chicago, Ill., assignor to Directoplate Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1925. Serial No. 3,788. 27 Claims. (Cl. 95—76.)



1. The combination in a photo-composing machine, of a negative holding frame, means for raising said frame and holding it in an elevated position, means for operating said raising means to release said frame, and additional means for holding said frame in said elevated position after it has been released by said raising means.

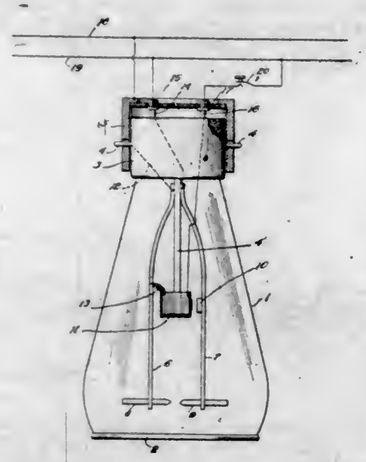
1,682,846. ELECTROLYTIC RECTIFIER. HARRY C. KREMERS, Urbana, Ill. Filed July 16, 1926. Serial No. 122,802. 13 Claims. (Cl. 175—318)



1. In an electrolytic cell, a filming electrode of rare earth metal.

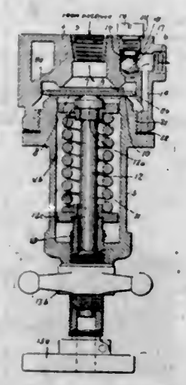
5. In an electrolytic cell containing an electrolyte and having at least one electrode of non-filming conducting material, a filming electrode containing cerium.

1,682,847. ELECTRIC-ARC LAMP. IAN JEAN LAVOISIER, New Orleans, La., assignor, by mesne assignments, to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed Oct. 1, 1924. Serial No. 740,982. 2 Claims. (Cl. 176—136.)



1. An electric arc electrode comprising a dehydrated and glazed mixture of zirconium and yttrium oxide.

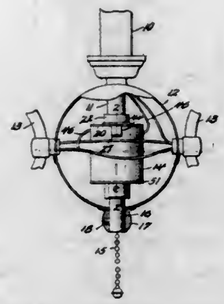
1,682,848. FLUID-PRESSURE-CONTROL DEVICE JULIUS C. MOODY and LEON F. HOFFMAN, Franklin, Pa., assignors to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 2, 1926. Serial No. 133,168. 19 Claims. (Cl. 277—70.)



1. A fluid pressure control device having spaced valve seats, a valve movable between said seats, means yieldingly maintaining said valve against one of said seats, a passage uncovered by initial movement of said valve from said last named seat, and means preventing movement of fluid through said passage until said valve engages the other seat.

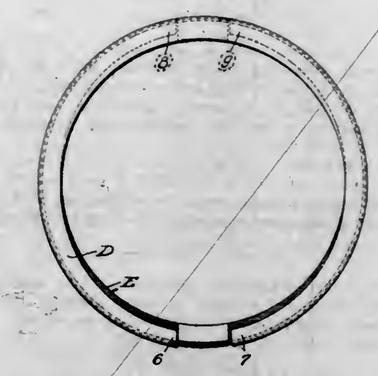
9. A fluid pressure control device comprising a cap and a body presenting opposed valve seats and a valve chamber therebetween, said cap having inlet and outlet connections for pressure-fluid extending to said chamber, the outlet connection extending to both sides of said chamber, said body connecting said chamber to atmosphere, a valve movable between said seats, and means for adjusting the distance between said seats without disturbing the inlet and outlet line connections to the device.

1,682,849. FIXTURE-BODY SWITCH. HARRY J. MOREY, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Solvay, N. Y., a Corporation of New York. Filed June 25, 1924. Serial No. 722,398. 9 Claims. (Cl. 200—168.)



1. In a fixture body switch for electric circuits in combination an insulating switch body containing switch mechanism of the pull chain type, a metal plate adapted to fit on top thereof, an internally threaded collar attached to said plate and depending arms on said plate converging beneath and there engaging said switch body to loosely support the same from said plate.

1,682,850. TWO-PIECE PISTON RING. EDWARD C. NEWTON, Los Angeles, Calif. Filed Aug. 24, 1926. Serial No. 131,172. 8 Claims. (Cl. 74—109.)

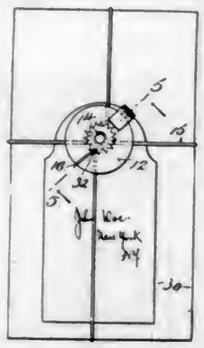


1. A piston packing comprising a compression ring having a cylindrical outer perimeter and opposed yielding points, and an oil ring having a lesser diametrical dimension than the compression ring, having a conical outer perimeter and opposed yielding points.

1,682,851. SHIPPING TAG. SHUHEI NOGUCHI, New York, N. Y. Filed July 2, 1927. Serial No. 203,087. 2 Claims. (Cl. 24—18.)

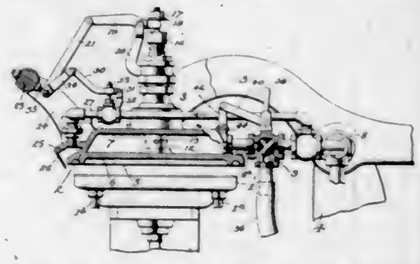
1. A shipping tag comprising a body part in combination with a disk having a slot therein, a sealing member on the body part for overlapping an edge of the disk, and

an assembly member consisting of a hollow rivet having a head for securing said disk and sealing member on to



the body part, said head over-lying a portion of said disk and having a cutting edge covering the inner part of the slot.

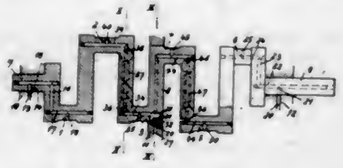
1,682,852. GARMENT-PRESSING MACHINE. HERBERT EDWARD PAGE, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware. Filed June 4, 1923. Serial No. 643,443. 10 Claims. (Cl. 68—9.)



1. In a garment pressing machine, the combination of relatively movable pressing elements; means for ejecting steam from the pressing face of one of said elements and onto the face of the goods next thereto; and means for ejecting steam laterally between said pressing elements onto said face.

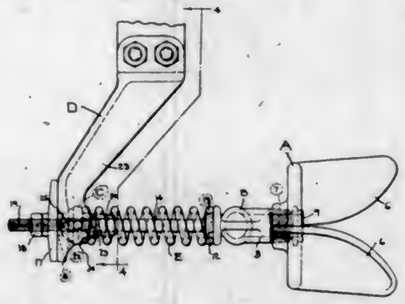
9. In a garment pressing machine, the combination of a buck; means for heating the same; a head movable toward and from the buck; means for cooling the head; and means for ejecting steam between the head and the buck.

1,682,853. OIL-FEEDING DEVICE. CURT RETSCHY, Dessau, Germany, assignor to Hugo Junkers, Dessau, Germany. Filed Jan. 16, 1926. Serial No. 81,802, and in Germany Jan. 24, 1925. 5 Claims. (Cl. 184—7.)



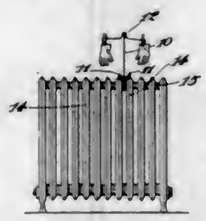
1. In a device for leading oil to the interior of rotating shafts in combination; a main shaft bearing, a shaft supported therein with its journal, a conduit in said bearing for supplying oil under pressure to the gliding surface of said journal, a second conduit in the journal communicating with said first conduit and leading to the place of oil consumption and a nonreturn valve in the entrance of said second conduit, adapted to hold back the oil entered against being repelled by centrifugal forces.

1,682,854. AUTOMATIC TRAIN-PIPE COUPLING. JOSEPH ROBINSON, New York, N. Y. Filed Nov. 29, 1920, Serial No. 427,047. Renewed Jan. 28, 1928. 4 Claims. (Cl. 285—58.)



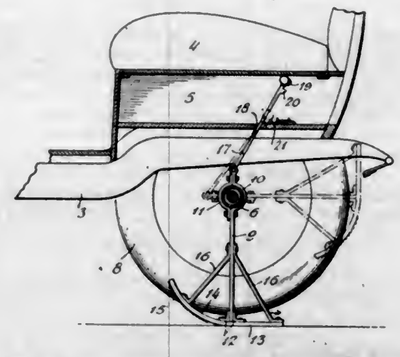
1. In an automatic train pipe coupling, the combination of a coupling head, a bracket having a perforation in its lower end, a pair of projections extending forward from the bracket on opposite sides of said perforation, an elongated bearing on each of said projections, a seat mounted on the front face of said bracket for universal movement thereon and having a perforation aligning with the perforation in said lower end of the bracket, a member extending rearward from said coupling head through said perforations and serving to prevent excessive rotation of the coupling head relative to said seat, a device mounted on the rear of said member and engaging said bracket to limit movement of said coupling head forward of the bracket, a spring surrounding said member and supported on said seat, means to adjust said device along said member to vary the compression of said spring, and projections extending laterally of said seat from opposite sides thereof into engagement with said bearings for oscillatory and sliding movement thereon.

1,682,855. GARMENT SUPPORT. WILLIAM H. ROSE, Jersey City, N. J. Filed Dec. 17, 1927. Serial No. 240,724. 3 Claims. (Cl. 211—86.)



1. In a garment support capable of attachment to a radiator, in combination, an elongated member having a radiator hook at one end capable of placement around the under face of a horizontal radiator conduit, an extended support carried by the elongated member capable of abutment upon the adjacent upper perpendicular portion of a radiator and so positioned that when the radiator hook is in abutment with the horizontal radiator conduit the device will be maintained in inclined position and a suspending hook carried by the opposite portion of the elongated member.

1,682,856. VEHICLE JACK. SAMUEL M. SALKIND, Brooklyn, N. Y. Filed May 18, 1927. Serial No. 192,208. 1 Claim. (Cl. 254—94.)

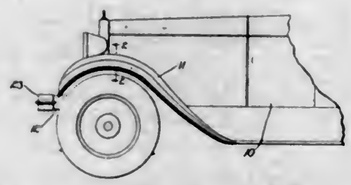


The combination with a vehicle including an axle housing, and a seat for the vehicle having a compartment therein; of a jack including a standard having a collar loosely embracing said axle housing for rotary movement thereabout, a supporting shoe carried by the standard and engageable with a supporting surface when the standard is in a vertical position to elevate said axle housing, an operating rod connected to said standard for moving the same about said housing, said rod extending into the compartment of said seat, and a latching device within said compartment engageable with said rod to hold the same in one of its actuated positions.

1,682,857. MANUFACTURE OF RUBBER AND THE LIKE. PHILIP SCHIDROWITZ, London, England, assignor to Vulcex Limited, Jersey, Channel Islands, England, a Jersey Company. Filed Mar. 14, 1923, Serial No. 625,171, and in Great Britain Sept. 14, 1922. 29 Claims. (Cl. 18—53.)

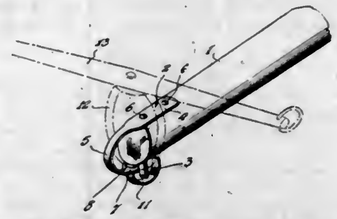
1. The process for the manufacture of vulcanized compositions which comprises substantially uncoagulated caoutchouc at a temperature below those ordinarily employed in hot vulcanizing methods under such conditions as to preclude any substantial coagulation of the caoutchouc during the vulcanization.

1,682,858. BUMPER AND FENDER GUARD. HARRY E. SIPE, New York, N. Y. Filed July 16, 1927. Serial No. 206,321. 6 Claims. (Cl. 293—55.)



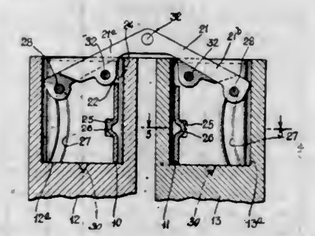
6. A guard strip for detachable mounting in connection with a support and consisting of an elongated substantially tubular body of rubber, said body being divided longitudinally thereof to give access to the chamber therewithin, the member in connection with which said guard strip is mounted being insertable into the chamber of said body through the divided portion thereof, and the side walls formed by said divided portion engaging said member under the resilient tension of said rubber body to prevent accidental displacement of the guard strip.

1,682,859. VEHICLE POLE TIP. NELS JOHN SODERSTROM, Burtrum, Minn. Filed Aug. 9, 1927. Serial No. 211,796. 2 Claims. (Cl. 278—50.)



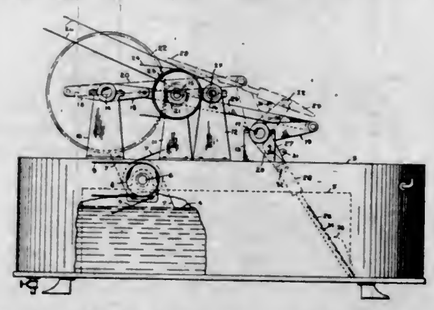
1. A vehicle pole tip comprising companion upper and lower members adapted to be secured against upper and lower faces of a pole, said members extending longitudinally of the pole and the upper member having its forward portion extending outwardly and downwardly therefrom and provided with an eye at its lower end disposed at the end of the pole, the lower member having a depending arm intermediate its length and at its forward end provided with a guard extending downwardly through the eye and rearwardly below said arm and upwardly to the rear of the arm and having its rear end free.

1,682,860. INVISIBLE HINGE. JOSEPH SOSS, Brooklyn, N. Y. Filed Nov. 27, 1925. Serial No. 71,539. 5 Claims. (Cl. 16—164.)



1. A hinge butt comprising a casing one side and one end of which are open to give access to a channel in said casing, bearing members within the casing and in spaced and parallel relation, said casing and bearing members being formed from a single sheet of metal, and flanges integral with said bearing members and arranged at right angles thereto and overlying the edge of the casing and within the boundary of said casing.

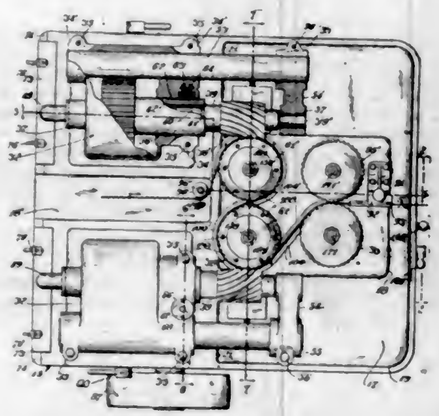
1,682,861. APPARATUS FOR WASHING FIBROUS MATERIALS. FRANK B. STRATFORD, Montclair, N. J. Filed Mar. 22, 1926. Serial No. 96,436. 2 Claims. (Cl. 141—12.)



1. An apparatus of the class described having means for circulating the wash around the same, pivoted means at one side for collecting and lifting fibrous material periodi-

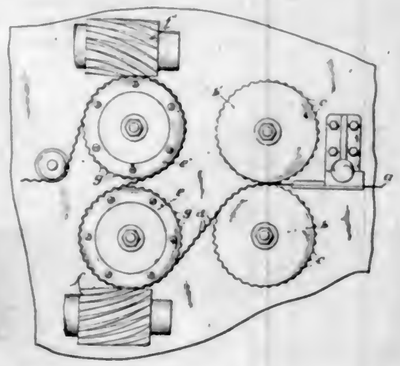
cally from the wash, and means for lifting the same, said lifting means being adapted when elevated to a predetermined point to fall over a dead center, and said means for collecting said fibrous material being adapted when in discharging position to release the same, and in combination therewith a conveyor for removing the discharged fibrous material.

1,682,862. MACHINE FOR MAKING CORRUGATED FASTENERS. CARL O. SWENSON, Chicago, Ill., assignor to Consolidated Steel Strapping Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 9, 1924. Serial No. 742,642. 24 Claims. (Cl. 10—28.)



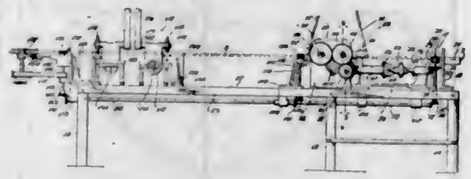
10. In a machine of the class described, the combination of supporting means a pair of corrugating wheels, a strip corrugated by said corrugating wheels, a pair of feeding wheels, a pair of milling cutters, one opposite each of said feeding wheels, means for driving the feeding wheels so as to guide the strip first over one of said wheels with one face engaged by the opposite cutter and subsequently over the other feeding wheel, with its opposite face engaged by the cutter opposite to the second wheel.

1,682,863. METHOD OF MAKING CORRUGATED FASTENERS. CARL O. SWENSON, Chicago, Ill., assignor to Consolidated Steel Strapping Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 9, 1924. Serial No. 742,643. 1 Claim. (Cl. 10—34.)



The herein described method of milling saw teeth in a corrugated fastener strip, which consists in bowing the strip, in moving the strip while bowed with its edge into cutting relation with a milling cutter, and in subsequently bowing the strip in the opposite direction and in moving its edge again into cutting relation with a milling cutter.

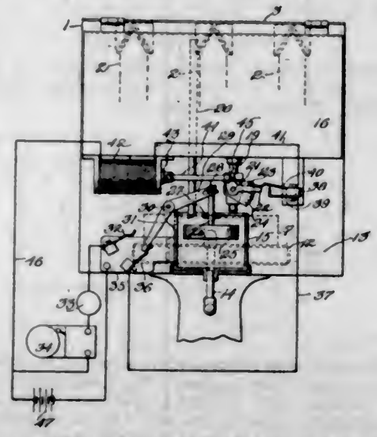
1,682,864. MACHINE FOR MAKING CORRUGATED FASTENERS. CARL O. SWENSON, Chicago, Ill., assignor to Consolidated Steel Strapping Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 9, 1924. Serial No. 742,644. 14 Claims. (Cl. 10—42.)



1. In a machine of the class described, the combination of means for guiding a portion of a corrugated strip in a substantially rectilinear path, and a milling cutter acting on said strip in said rectilinear path and having its axis disposed parallel to the plane of said path and inclined in a vertical direction.

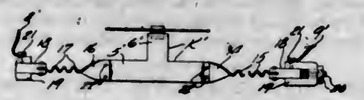
11. In a machine of the class described, the combination of a frame comprising side supporting members, means for guiding the fastener strip through a predetermined path between said supporting members, individual bearing frames on each side of the strip, stub axles pivotally mounting said bearing frames to said supporting members for pivotal movement in planes parallel with said predetermined path, individual milling cutters journalled in each of said bearing frames, a drive shaft projecting from each of said bearing frames operatively connected to its respective milling cutter, gears on each of said drive shafts, gears on said stub shafts meshing with said first-named gears, and means for driving the gears on said stub shafts.

1,682,865. SHOE-BOTTOM-FILLING MACHINE. ANDREW THOMA, Cambridge, Mass., assignor to North American Chemical Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 1, 1924. Serial No. 747,275. 8 Claims. (Cl. 18—1.)



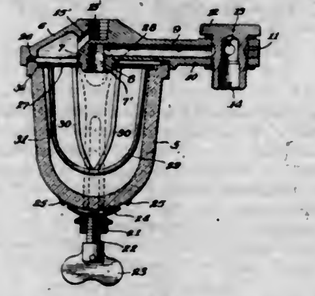
1. In a machine of the kind described, a filler supply reservoir for the safe handling with high heat of a heat responsive shoe-bottom filler which is normally slowly penetrative by heat and liable to burn at high heat, a steam generator connected to deliver heat and moisture to said filler in the reservoir, means for supplying heat to the generator at a substantially uniform rate, means for maintaining a substantially constant water level in the generator, said latter means comprising a receptacle freely communicating with the generator, a valve normally set to deliver water to said receptacle at substantially the same rate at which water is evaporated by the generator, a float in the receptacle, and operating connections between the float and inlet valve so constructed and arranged that upon failure of the generator to evaporate water at the rate at whih water is normally supplied to the receptacle, the valve will be closed by the abnormal upward movement of the float, said valve being unaffected upon the subsequent downward movement of the float, whereby the water supply will be automatcially cut off upon a flow of water in excess of the capacity of the machine but requires a separate operation independent of the float to turn the water on again.

1,682,866. ELECTRICAL INSTRUMENT OF THE TELEPHONE TYPE. ADOLPH A. THOMAS, New York, N. Y. Filed Aug. 13, 1924. Serial No. 731,718. Renewed Jan. 12, 1928. 35 Claims. (Cl. 179—115.)



20. In an electrical instrument provided with a magnet having a straight air gap, a vibratory unit consisting of a resiliently supported non-magnetic conducting frame having a strip arranged to operate in said air gap to cut the magnetic lines of force, the ends of said strip extending through the opposite ends of said air gap.

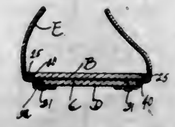
1,682,867. FILTER. GEORGE F. THOMAS, Berwyn, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,242. 5 Claims. (Cl. 210—165.)



5. A filter element comprising a disc having an opening therethrough, a filter bag supported by said disc, said disc and filter bag having registering openings therethrough lying between projecting portions of said filter bag, and metallic eyelets passing through said openings for securing said bag to said disc.

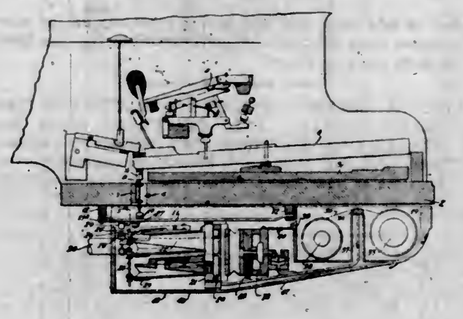
1,682,868. PROCESS OF MANUFACTURING SHOES. JORGE S. TOUCHE, Monterey, Mexico. Filed Sept. 7, 1927. Serial No. 217,984. 4 Claims. (Cl. 12—142.)

1. Those steps in the method of manufacturing shoes which consist in securing an inner sole to the bottom of a last, securing a metallic sole piece on the bottom surface of the inner sole in non-overlapping relation with the marginal portions of the inner sole, securing a temporary nailing strip over the metallic sole piece, drawing an upper over the last in margin-overlapping relation to the inner sole and the temporary nailing strip, tacking the marginal portions of the upper to the temporary nailing strip so that the points of the tacks engage the metal sole and clinch on the temporary nailing strip to secure the upper margin thereto without entry of the tacks into the inner sole or last, removing the last, stitching the upper beyond the



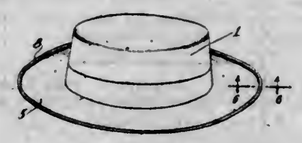
peripheral edges of the metal sole to the marginal portion of the inner sole, removing the temporary nailing strip, clinched tacks, and metal sole without mutilation of said stitching, and finishing the shoe in any approved manner.

1,682,869. PLAYER GRAND PIANO. WILLIAM B. TUNSTALL, Worcester, Mass., assignor to Earle E. Conway, Boston, Mass.; Carle C. Conway, Scarboro, N. Y.; and Theodore P. Brown, Worcester, Mass., trustees. Filed Jan. 24, 1923. Serial No. 614,599. 6 Claims. (Cl. 84—26.)



1. In a piano, a keybed, a piano action, keys, a rod below each key, an elongated crank member below each rod, and a stop to limit the downward movement of each elongated crank member.

1,682,870. FABRIC HAT AND METHOD OF MAKING THE SAME. JOHN M. VAN HEUSEN, Boston, Mass. Filed Aug. 5, 1922. Serial No. 579,912. 10 Claims. (Cl. 2—194.)

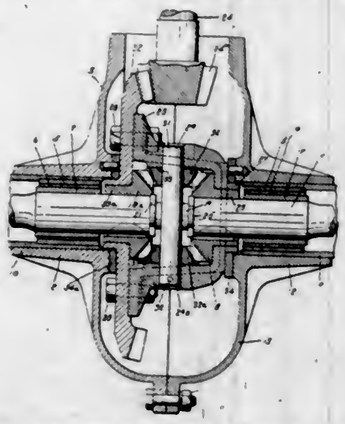


1. That improvement in the art of making cloth hats which consists in providing a fabric blank having a raised or bulged portion therein, treating the said blank with a shrinking agent, fitting the treated blank, while wet, to a hat form and drying it thereon.

1,682,871. DIFFERENTIAL GEARING FOR MOTOR VEHICLES. CHARLES R. SHORT, Dayton, Ohio, and VICTOR HUGHES, Detroit, Mich., assignors to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 16, 1926. Serial No. 102,525. 3 Claims. (Cl. 74—99.)

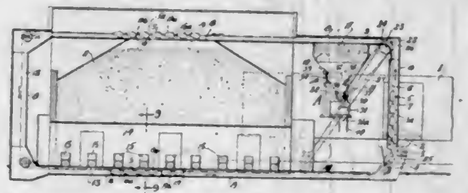
1. In a motor vehicle transmission, the combination with a rear axle and differential housing, of differential gearing comprising two alined axle shafts, beveled axle gears fac-

ing each other adapted to be secured respectively to said shafts, a one piece main gear bearing on one axle gear, a U-shaped differential cage detachably secured to the bearing



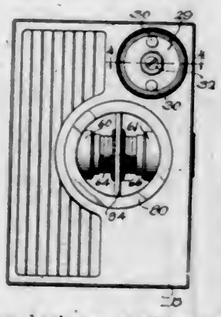
face of said main gear and having a bearing on the other axle gear; and differential pinions carried by the cage meshing with the axle gears.

1,682,872. METHOD OF AND APPARATUS FOR HANDLING, STORING, AND MEASURING BULK MATERIAL INTO BATCHES. WILLIAM MAYO VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed June 3, 1924. Serial No. 717,535. 8 Claims. (Cl. 214—2.)



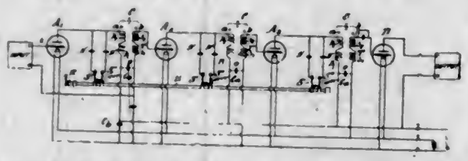
1. Apparatus for handling, storing and apportioning bulk material, comprising in combination a source of supply, a charging hopper, a measuring device, a storage bin, an endless conveyor for distributing the material, a conveyor for delivering material from the source of supply to the endless conveyor, a conveyor for delivering material from the charging hopper to the measuring device and a common drive for the various conveyors.

1,682,873. CAMERA. ALEXANDER FERDINAND VICTOR, Davenport, Iowa. Filed June 24, 1926. Serial No. 118,253. 15 Claims. (Cl. 95—42.)



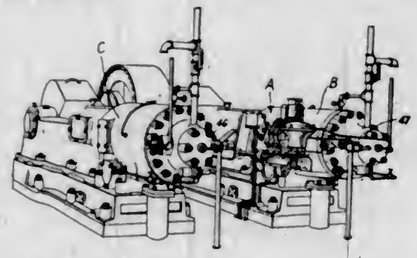
1. In a camera having a sensitized member, a lens mounted to focus through a finder in one plane and movable to an angle thereto for making a photographic exposure, and means actuated by the lens whereby to move the sensitized member during a portion of its movement.

1,682,874. RADIO FREQUENCY AMPLIFIER. FREDERICK K. VREELAND, Montclair, N. J., assignor to Vreeland Corporation, Hoboken, N. J., a Corporation of New Jersey. Filed Aug. 6, 1923. Serial No. 655,794. 6 Claims. (Cl. 179—171.)



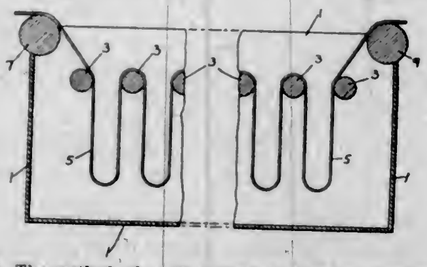
1. The method of amplifying high frequency currents which consists in amplifying the current energy, inductively reversing the polarity of the amplified output, shunting the reversing inductance by a capacity whose reactance balances the reactance of the reversing inductance at a given frequency, and adding capacity to the system whereby its reactances are balanced at a different frequency.

1,682,875. CONTROL APPARATUS FOR OIL ENGINES. HARRY C. WASSON and LESTER L. COLLINS, Franklin, Pa., assignors to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 11, 1924. Serial No. 731,319. 12 Claims. (Cl. 123—140.)



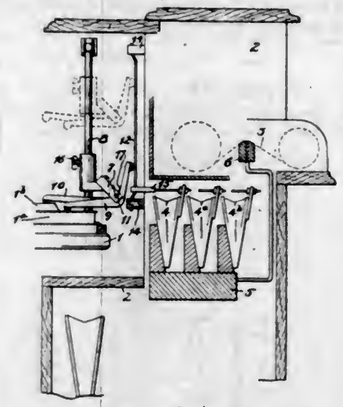
1. A unit control assembly for a multi-cylinder oil engine comprising a casing, a speed governor and fuel injecting pumps mounted on said casing, reciprocating pistons in said pumps, a driving shaft within said casing for said governor and pumps, means controlled by said governor for uniformly varying the fuel charges of said pumps, and means positively limiting the stroke of said pistons and permitting relative variation of the same to secure an equal power output from the cylinders of the engine.

1,682,876. COOLING RUBBER TIRE TREADS. HUGO C. WEISSE, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 4, 1926. Serial No. 113,788. 3 Claims. (Cl. 18—2.)



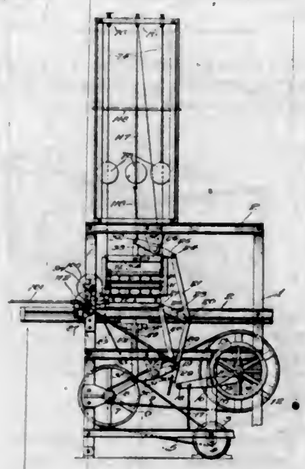
3. The method of cooling tread stock which comprises passing it freely over a series of rolls, driven at substantially equal speeds, and with the stock running in freely suspended festoon loops between the rolls, said loops being immersed in a cooling liquid.

1,682,877. ADJUSTABLE PLAYER ATTACHMENT FOR PIANOS. FRANK C. WHITE, Meriden, Conn., assignor, by mesne assignments, to Simplex Player Action Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1921. Serial No. 514,585. 20 Claims. (Cl. 84—111.)



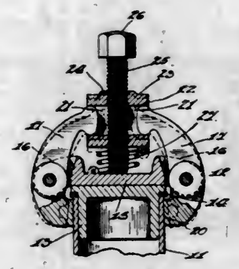
1. In a player apparatus, pneumatic action devices, mechanical action devices, means for transmitting movement from the former to the latter comprising a plurality of roller wires mounted to move transversely and separately movable by said pneumatic action devices, said mechanical action devices being adjustable to different positions relatively to the length of said roller wires and being operable thereby in said different positions of adjustment.

1,682,878. PROCESS AND APPARATUS FOR NESTING PARTITION BLANKS. FREDERICK D. WILLI, Chicago, Ill., assignor, by mesne assignments, to Solomon H. Goldberg, Chicago, Ill. Filed Dec. 22, 1924, Serial No. 757,392. Renewed Mar. 4, 1927. 8 Claims. (Cl. 93—37.)



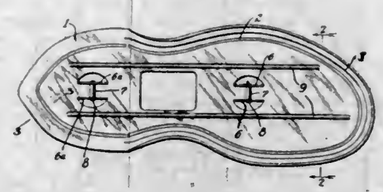
1. A process of nesting partition blanks, comprising feeding singly in a vertical plane, a predetermined number of spaced partition blanks having notches along one longitudinal edge from a plurality of magazines holding blanks lying in the same plane, vertically feeding individually blanks having longitudinal notches from a plurality of magazines holding blanks lying in the same plane, but at substantially right angles to the first mentioned blanks, causing the notches in the angularly disposed blanks to register, this nesting said blanks, and removing the formed nesting.

1,682,879. LEAD-PIPE SEAL. WILLIAM G. WILSON, West New Brighton, N. Y. Filed Sept. 3, 1927. Serial No. 217,399. 3 Claims. (Cl. 137—76.)



1. In combination with the open end of a lead pipe, a plug extending within said pipe for closing the open end thereof, of a clamping device including a plurality of pivoted jaws for clamping engagement with the exterior wall of said pipe, a collar engaging said jaws for actuating the same, a bearing plate overlying said plug on which said jaws are pivotally mounted, a contractile spring interposed between said collar and said bearing plate, and a stud threaded in said collar and pressing against said bearing plate to hold said plug seated in said pipe.

1,682,880. SOLE PATTERN. ROLAND G. ANDERSON, New Haven, Conn., and JOHN GAINES, Woonsocket, R. I., assignors to L. Candee & Co., New Haven, Conn., a Corporation of Connecticut. Filed July 3, 1926. Serial No. 120,315. 7 Claims. (Cl. 33—5.)

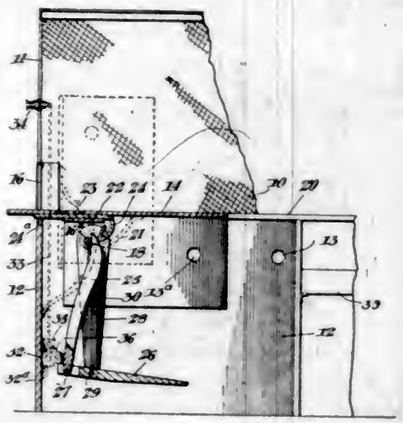


1. A sole pattern, the knife guiding edge of which is under-bevelled to the desired angle for cutting.

1,682,881. CASHIER'S PROTECTOR. LEON NOEL BEAUDRY, Calgary, Alberta, Canada. Filed July 15, 1925. Serial No. 43,873. 2 Claims. (Cl. 20—1.01.)

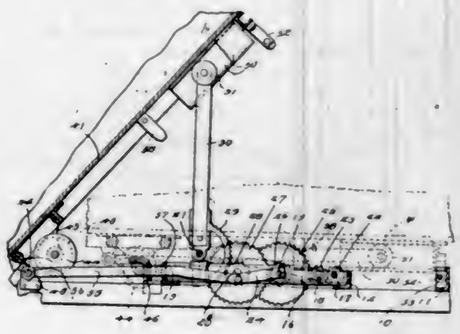
1. In a device of the character described the combination with a spring actuated, rotatably mounted counter provided with engaging means, of a locking bar adapted to slidably engage with said means to lock the counter in a horizontal position, a pivotally mounted wedge member adapted to engage the locking bar to unlock it and means

for operating the wedge comprising a pivotally mounted pedal lever, pivotally connected to said wedge whereby on the pedal being pressed the wedge is moved upwardly to en-



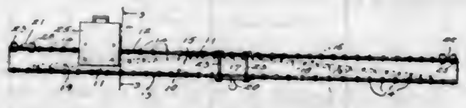
gage with the locking bar to unlock it and whereby on the pedal being released the wedge member automatically disengages with the locking bar.

1,682,882. DUMPING BODY. FRED BISZANTZ, Galion, Ohio, assignor, by mesne assignments, to The Central Ohio Steel Products Company, Galion, Ohio, a Corporation of Ohio. Filed Oct. 18, 1927. Serial No. 226,989. 14 Claims. (Cl. 298—14.)



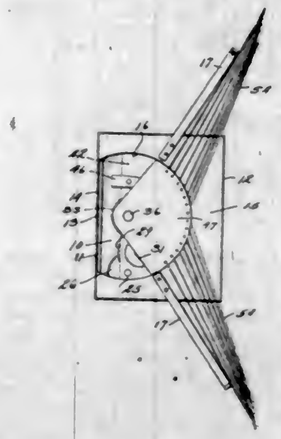
1. In a dumping body assembly, a frame, a body supported from the frame for tilting and longitudinal shifting movements, a shaft mounted upon the frame and having connection with the body whereby the body is tilted as the shaft is rotated, a second shaft mounted upon the frame, means connecting the second shaft and body whereby the body is shifted longitudinally upon rotation of said second shaft, intermittent gearing connecting the first and second shafts and transmitting rotation of the first to the second shaft only after a predetermined rotation of the second shaft and means for rotating the first shaft.

1,682,883. STEEL WALKING BEAM. LEE J. BLACK, Beaumont, Tex. Filed Nov. 10, 1927. Serial No. 232,373. 5 Claims. (Cl. 74—5.)



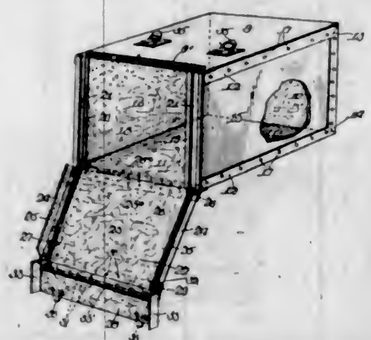
1. A walking beam for use in well pumping apparatus and the like comprising a metallic tube having parallel side walls and a truss member lying entirely within the tube and secured to said side walls throughout its length.

1,682,884. ADVERTISING AND DISPLAY DEVICE. HENRY BROADLEY, Walkerville, Ontario, Canada. Filed May 26, 1927. Serial No. 194,450. 8 Claims. (Cl. 40—104.)



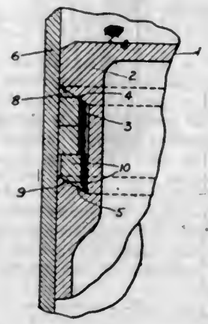
1. A display mechanism including the similitude of a book comprising a plurality of rotatable spindles and leaves carried thereby and motor operated means causing the successive partial rotation of the spindles in one direction to thereby turn the leaves one by one in one direction and then causing the immediate reversal of all of the leaves to an initial position.

1,682,885. APPARATUS FOR STORING DISHES. FANNIE M. BUTLER, Hinsdale, Ill. Filed Apr. 23, 1925. Serial No. 25,195. 3 Claims. (Cl. 220—82.)



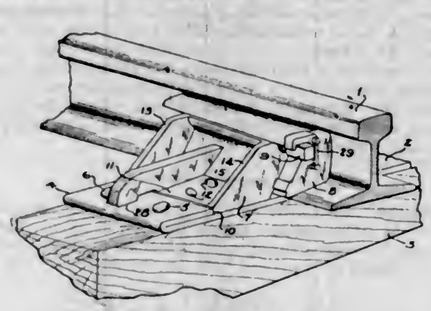
1. A receptacle of the character described, comprising top, rear, bottom and side walls, the top wall being provided with a pressed integral corrugation, and the side walls provided with inturned flanges having integrally pressed corrugations therein; a door hingedly connected to said receptacle, said door being provided with integrally pressed corrugations adapted to register with the corrugations in the portions of the receptacle when said door is closed; and means for holding said door in closed position, said door being provided with dust-proof material which extends over the related corrugations, and is adapted to be disposed between the registering corrugations when the door is in closed position.

1,682,886. PISTON RING. SIDNEY JOHN COCKS and RAYMOND EDWIN BROWNING, Vancouver, British Columbia, Canada. Filed May 17, 1926. Serial No. 109,773. 8 Claims. (Cl. 74—109.)



1. A piston assembly comprising a piston having a peripheral groove, said groove having opposing end faces parallel to each other and inclined with respect to the longitudinal axis of the piston, a spiral ring to the piston having inclined end faces parallel to each other and adapted to make gas tight contact with the end faces of the groove.

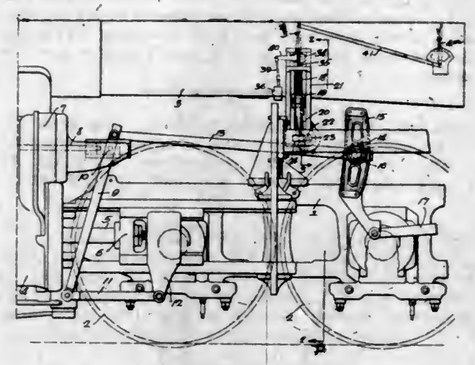
1,682,887. RAIL BRACE. WILLIAM W. COLEMAN, New York, N. Y. Filed Dec. 22, 1926. Serial No. 156,317. 3 Claims. (Cl. 238—292.)



1. In a rail brace; in combination: a fixed projection; a butt member formed with a surface to abut the fixed projection and a bearing arm attached to the butt member and extending out beyond the fixed projection.

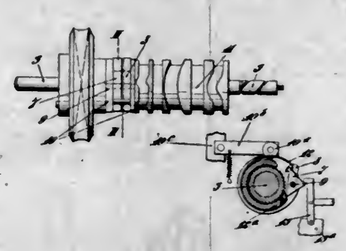
1,682,888. POWER REVERSE GEAR FOR LOCOMOTIVES. WILLIAM A. CRAIG, Philadelphia, Pa. Filed Mar. 10, 1925. Serial No. 14,537. 6 Claims. (Cl. 121—162.)

1. The combination in a power reverse gear for locomotives, of linkages; a shaft extending from one side of the locomotive to the other side; a reversible motor for driving said shaft; control means for the motor; a mechanism at



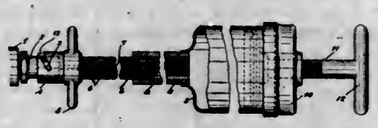
each side of the locomotive driven by the shaft for changing the operative relations of the linkages; and locking the same in the position in which they are adjusted.

1,682,889. CLUTCH MECHANISM, SPECIALLY SUITABLE FOR USE IN TELEGRAPHIC APPARATUS. FREDERICK GEORGE CREED, Croydon, England, assignor to himself and Creed & Company Limited, Croydon, England. Filed Aug. 12, 1926, Serial No. 128,865, and in Great Britain Oct. 21, 1925. 12 Claims. (Cl. 192—28.)



1. Clutch mechanism comprising a rotary driving member, a rotary driven member, a number of toothed wheels adapted to be rotated by said driving member and having their respective sets of teeth staggered in relation to one another, spring actuated pawls equal in number to the toothed wheels and pivoted to said driven member and adapted, when released, to move towards and engage one or other of said toothed wheels and means whereby said pawls can be moved out of engagement with said wheels.

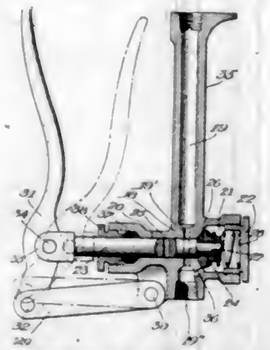
1,682,890. LUBRICATING MEANS. JOHN L. CREVELING, Oracle, Ariz., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed May 28, 1924. Serial No. 716,404. 2 Claims. (Cl. 221—47.4.)



1. Lubricating means comprising lubricant containing means, means for expelling a lubricant therefrom, means for receiving said lubricant and exerting increased pressure

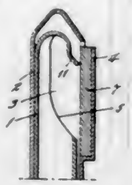
upon the same, a discharge conduit for said high-pressure means, a coupling means attached to said discharge conduit and adapted for making a connection with a lubricant receiving means, and projecting means secured to said coupling means and adapted to be manipulated during the operation of said lubricating means for preventing the application of undue force to parts of said lubricant receiving means.

1,682,891. VALVE. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 25, 1924. Serial No. 708,031. 8 Claims. (Cl. 251—75.)



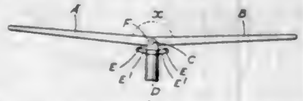
7. A valve comprising a body having a lubricant inlet and an outlet, a manually operable valve member in said body unaffected by the inlet pressure, means adapted to be actuated by the pressure in the outlet so as to tend to close the valve, said means operating to enlarge the volume of the outlet space, and spring means for assisting in the actuation of said means.

1,682,892. LIGHTER. LOUIS DE GOLL, Paris, France. Filed Dec. 5, 1923, Serial No. 678,623, and in France Dec. 5, 1922. 3 Claims. (Cl. 67—7.1.)



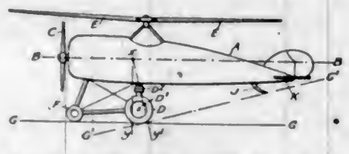
1. A portable lighter comprising a body portion, a striker attached thereto and a cap provided with a pyrophoric stone fitting over the lighter body, the said cap being formed from a flat piece of metal rolled into cylindrical form with overlapping edges which tend to contract the cap into diminished diameter and press the striker against the pyrophoric stone.

1,682,893. AIRCRAFT WITH ROTATIVE WINGS. JUAN DE LA CIERVA, Madrid, Spain. Filed Jan. 19, 1927, Serial No. 162,176, and in Great Britain Jan. 23, 1926. 8 Claims. (Cl. 244—19.)



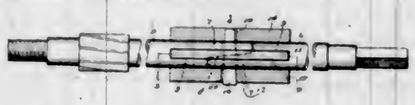
1. In aircraft, a supporting system comprising an even number of freely rotative wings adapted to be driven by the relative air flown across them in flight, diametrically opposite wings being connected or rendered interdependent and flexibly jointed to the axis of rotation in such a manner that each pair of wings may oscillate under the influence of centrifugal and lift forces in a plane substantially perpendicular to the plane of rotation.

1,682,894. UNDERCARRIAGE OR LANDING GEAR FOR AIRCRAFT. JUAN DE LA CIERVA, Madrid, Spain. Filed Mar. 26, 1927, Serial No. 178,708, and in Great Britain Apr. 7, 1926. 2 Claims. (Cl. 244—2.)



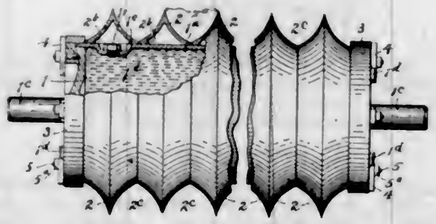
2. An aircraft comprising a fuselage and propelling means, a supporting system comprising freely rotative wings articulated to the axis of rotation and adapted to be revolved by the relative airflow during flight and an undercarriage including principal landing wheels, supplementary supporting means pivotally mounted in front of the principal landing wheels, said landing wheels being so disposed that their axles lie in the rear of the vertical plane through the centre of gravity of the aircraft when resting on the wheels and supplemental supporting means and the said wheels being in advance of said vertical plane when the tail-skid of the aircraft is in contact with the ground.

1,682,895. SHAFT COUPLING. JOHN M. DILLON, Hutton, La. Filed Oct. 12, 1927. Serial No. 225,742. 2 Claims. (Cl. 287—104.)



1. In a shaft coupling, shaft sections having overlapping reduced extensions which are provided with longitudinally inclined wedging faces, said shaft sections also having longitudinal grooves and the reduced extensions having transverse openings which are longitudinally staggered, a sleeve receiving the inner ends of the shaft sections and provided with a longitudinal groove and transverse openings, a longitudinal key fitting within the longitudinal grooves and a transverse tapered key within the transverse opening of the sleeve and within the transverse openings of the reduced extensions and engaging opposed walls thereof.

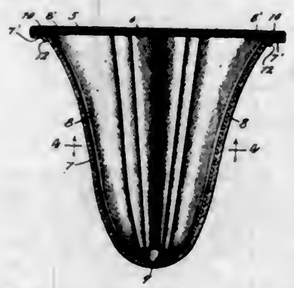
1,682,896. TILLAGE IMPLEMENT. RAY E. DUNHAM, Berea, Ohio, assignor to The Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Mar. 1, 1923. Serial No. 622,012. 3 Claims. (Cl. 55—77.)



1. In a tillage implement, the combination of a rotatably mounted body provided with a plugged aperture for the introduction of liquid ballast, and a plurality of

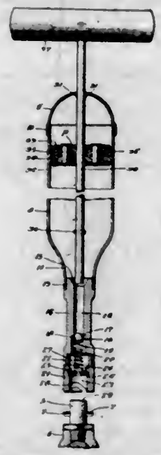
V-shaped treads in the form of rings, rotatably mounted upon the body and in laterally adjacent relation to one another, the walls of the body being provided with longitudinal corrugations, substantially as described.

1,682,897. FILTER ELEMENT. DOUGLAS F. FESLER, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed July 19, 1923. Serial No. 652,628. 6 Claims. (Cl. 210—165.)



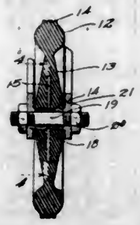
5. A filter element comprising a circular disc, a filter bag having its edge extending around the edge of said disc, and a retaining member bent around the edge of said disc and clamping said filter bag to said disc, said retaining member comprising means for determining modulations in said filter bag.

1,682,898. LUBRICATING SYSTEM. DOUGLAS F. FESLER, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 21, 1924. Serial No. 694,301. 2 Claims. (Cl. 222—47.4.)



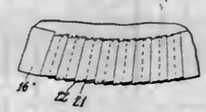
1. A lubricant compressor of the class described comprising a barrel, a cap secured to one end of said barrel, a high pressure cylinder secured to the other end of said barrel, a coupling member for making a quick detachable connection with a lubricant receiving nipple, said member carried by said cylinder, a washer clamped between said cylinder and said coupling member, a valve for said cylinder, sealing means for said coupling, spring means between said washer and said valve for holding said valve in closed position, a spring between said washer and said sealing member, a plunger extending through said barrel and cooperating with said cylinder, and a piston in said barrel and co-axial with said plunger.

1,682,899. RESILIENT WHEEL. JOSEPH H. FLETCHER, Los Angeles, Calif. Filed Nov. 16, 1927. Serial No. 233,653. 3 Claims. (Cl. 301—63.)



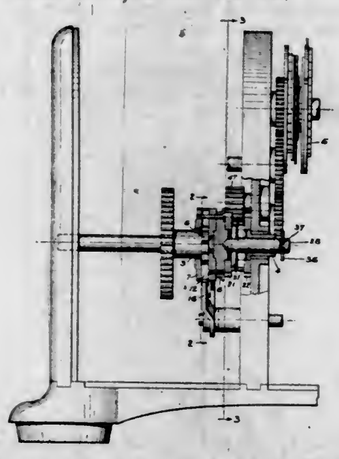
1. A wheel structure comprising a hub bushing, a stiffening plate circumscribing said bushing and carried thereby, said plate being disposed in a plane transversely of the longitudinal center of the bushing, and a wheel structure formed of a mass of resilient material enveloping said stiffening plate and being moulded thereover.

1,682,900. HOT-TOOL ROTARY CUTTER. FRANK E. FRICK, Flushing, N. Y. Filed Feb. 5, 1926. Serial No. 86,304. 1 Claim. (Cl. 29—103.)



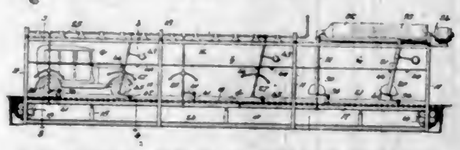
A hot tool rotary cutter comprising an annular disk having converging bevelled surfaces, teeth formed on said bevelled surfaces, the cutting edges of said teeth extending tangentially to the axis of the disk, the cutting edge of the teeth on one of the bevelled surfaces being of offset from the the cutting edge of the teeth on the opposite bevelled surfaces.

1,682,901. REVERSING MECHANISM. CARL M. F. FRIDEN, Oakland, Calif. Filed Apr. 13, 1926. Serial No. 101,658. 2 Claims. (Cl. 192—21.)



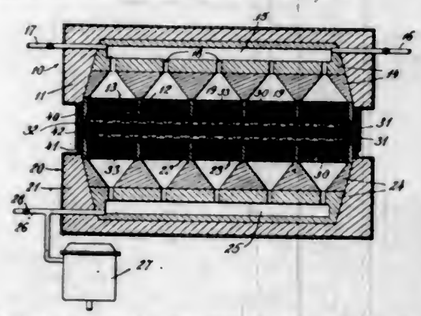
1. A reversing mechanism comprising a driving shaft having a diametric slot therein, a pair of contiguous gears rotatably mounted on said shaft, said gears being provided on their contiguous sides with diametrically disposed seats of different lengths on the opposite sides of the axis of the gears, a transverse pin disposed in said slot and extending beyond the surface of the shaft for different lengths on opposite sides thereof, and means for moving the pin longitudinally of the shaft into engagement with the seats of either gear.

1,682,902. VEHICLE-WASHING MACHINE. HOWARD S. GIASON, Washington, D. C., assignor of one-fourth to Dorsey F. Asbury and three-fourths to Helen Mills Gibson, Washington, D. C. Filed Apr. 14, 1924. Serial No. 706,354. 11 Claims. (Cl. 141—1.)



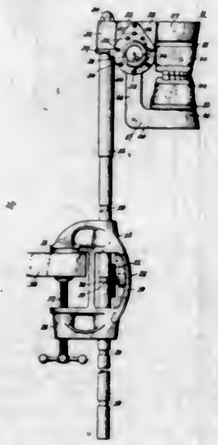
1. In a vehicle washing machine, a movable spray device, stop means to halt a vehicle passing through the machine, and means whereby said spray device is moved by a vehicle passing through the machine to a predetermined position with respect to a portion of the vehicle.

1,682,903. STEAM PRESS FOR CLOTHES. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed Apr. 11, 1923. Serial No. 631,383. 15 Claims. (Cl. 68—9.)



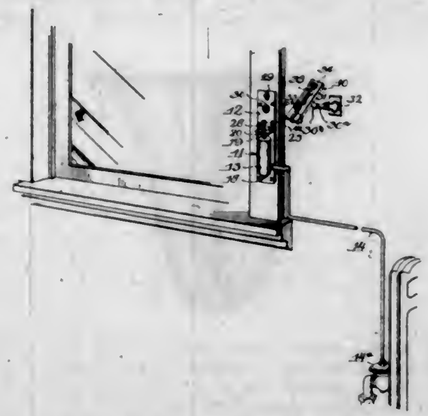
1. In apparatus of the character described, a pair of hollow press members having cooperating surfaces arranged to receive an article between them, a porous mass of heat retaining material in each of said members and means for passing a current of hot gaseous medium into one of the members through said cooperating surfaces an article between said surfaces and out through the other member.

1,682,904. DENTAL MANIKIN. RUDOLPH L. HANAU, Buffalo, N. Y. Filed Aug. 12, 1926. Serial No. 128,772. 21 Claims. (Cl. 35—16.)



21. A dental instrument comprising a fixed jaw member, and a movable jaw member co-operatively supported with respect to said fixed jaw member, said movable jaw member having longitudinally movable supported pivot elements projecting laterally therefrom for pivotally and slidably supporting said movable jaw member.

1,682,905. THERMOSTAT CONTROL FOR RADIATOR VALVES. EARL VERNON HILL, Chicago, Ill. Filed Sept. 21, 1925. Serial No. 57,561. 5 Claims. (Cl. 236—68.)



1. In combination with a thermostatic member and a shut-off device to be controlled thereby, a motor member remote from said shut-off device comprising a vessel containing a liquid of low boiling point, a pipe connecting said vessel to said shut-off device for operating the same by the pressure developed in said vessel, a thermal element associated with said vessel, conductors for supplying electric current to said thermal element, one of said conductors including the thermostatic member, a normally closed make-and-break switch interposed in the other conductor, and means by which said switch is adapted to be opened upon the development of a predetermined pressure in said vessel.
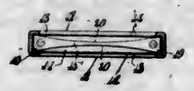
1,682,906. VALVE MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 23, 1920. Serial No. 432,857. 6 Claims. (Cl. 251—119.)



1. In a valve mechanism, a cage member having a pair of adjacent open fluid conducting slots side-by-side therein and opening in different directions from each other, and, connecting said slots, an inclined passage having walls which if extended would pass wholly within the openings of said slots, the opposite ends of opposite sides of each passage lying closely adjacent the surfaces of the cage member through which the slots respectively open and said cage member providing in one of said slots a valve seat surface surrounding one end of said passage.

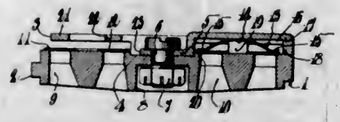
1,682,907. VALVE MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 19, 1921. Serial No. 453,790. 13 Claims. (Cl. 277—46.)

11. An air compressor valve comprising valve seats disposed in parallel planes, flexible valves cooperating with said seats having a central portion and end portions, said valves disposed in parallel planes when in seated position, and a member located between the planes of said



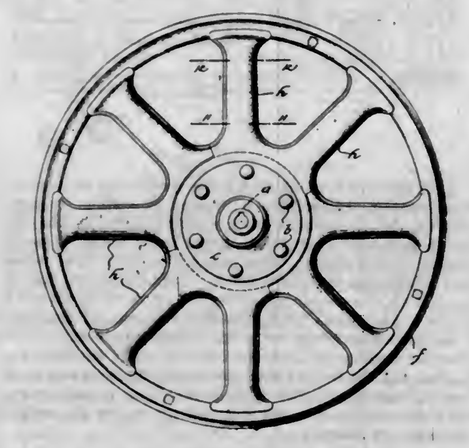
valves adapted rigidly to position said central portions and to guide said end portions inwardly along their entire length during opening movements thereof.

1,682,908. VALVE MECHANISM. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 19, 1923. Serial No. 681,597. 16 Claims. (Cl. 251—119.)



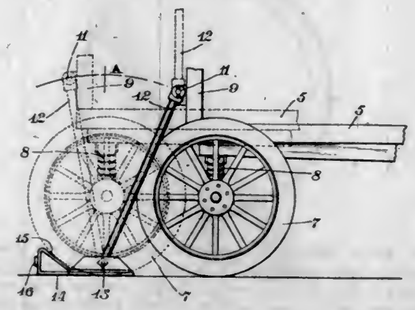
1. In a valve mechanism, a member providing concentric ported valve seats, annular valve members disposed on said seats, a guard member secured to said valve seat member, and a plurality of radially extending springs loosely guided by said guard member and slidably engaging said valve members, each of said springs lying wholly at one side of the center.

1,682,909. METHOD OF MAKING METAL WHEELS. EMIL R. JACOBI and FRANK H. LE JEUNE, Jackson, Mich., assignors, by mesne assignments, to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed June 19, 1925. Serial No. 38,204. 11 Claims. (Cl. 29—174.)



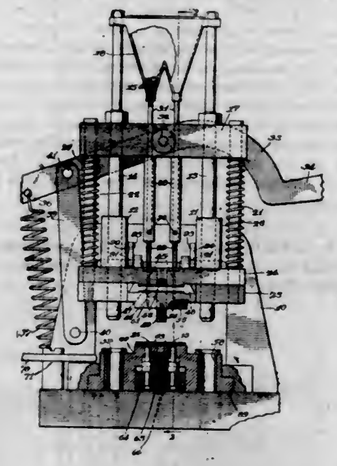
7. The method of making a metal wheel spider which comprises stamping wheel spider sections from flat stock and forming each section with a central portion and with one or more half tubular spoke portions, fitting at least two of the thus formed sections together to form a side of a wheel spider with the concave side of the half tubular spokes facing inwardly of the wheel spider and then placing two of such wheel spider sides together with the half tubular spokes matched to form a complete wheel spider with tubular spokes.

1,682,910. JACKING DEVICE FOR VEHICLE BEDS. GERHARD JAEGER, Columbus, Ohio. Filed June 22, 1926. Serial No. 117,727. 2 Claims. (Cl. 254—49.)



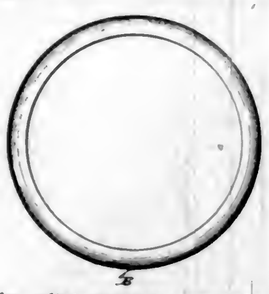
1. Means for relieving the weight of a wheeled vehicle bed on its supporting spring, including a ground purchase member and wheel chock connected together, a rod pivotally connecting the purchase member and vehicle bed, said rod adapted to elevate the bed in respect to its supporting spring when the vehicle wheel is moved toward the chock, said chock limiting the movement of the wheel while the bed is in elevated position.

1,682,911. MATERIAL-WORKING MECHANISM. EDMUND NIELS JORGENSEN, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1925. Serial No. 19,672. 6 Claims. (Cl. 78—49.)



1. In a material working mechanism, a tube for delivering blanks to be worked, a blank positioning member carrying said tube, means for transferring one blank at a time from the tube to an opening in the blank positioning member, means for moving the blank positioning member to its operative position, means for causing the transferring means to operate when the blank positioning member is moved to its operative position, thereby transferring a blank to the positioning member, and means for moving the blank from the opening in the blank positioning member to the work.

1,682,912. ROLL GARTER. LEROY F. KEYSER, Akron, Ohio. Filed Aug. 9, 1926. Serial No. 128,092. 1 Claim. (Cl. 241—5.)



A garter for rolled stockings comprising an integral annular body composed of porous or sponge rubber and having a thin exterior casing thereon composed of smooth solid rubber the inner surface of said garter being flat in cross section and the exterior surface being rounded in cross section.

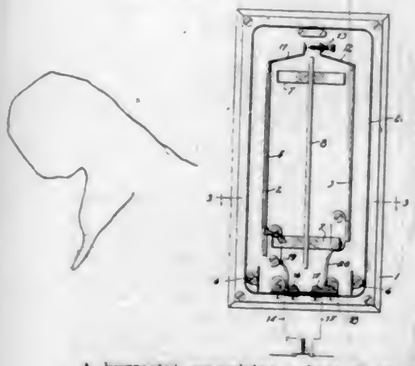
1,682,913. SOUND-RECORD COMPOSITION. FRANK E. LAYMAN and LINWOOD T. RICHARDSON, Milwaukee, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 13, 1923. Serial No. 662,559. 14 Claims. (Cl. 106—1.5.)

1. A sound record produced from material comprising approximately ten parts by weight of a resin of the sulphur type treated by incorporation therein of approximately one part by weight of white lead, and heating at a temperature above 300° F. for a period of approximately one-half hour.

1,682,914. METHOD OF MOLDING PLASTIC BODIES. FRANK E. LAYMAN and LINWOOD T. RICHARDSON, Milwaukee, and OSCAR A. CHERRY, Wauwatosa, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 13, 1923. Serial No. 662,560. 5 Claims. (Cl. 18—55.)

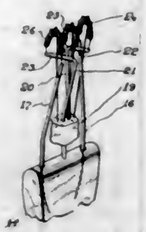
1. The process of producing a resin adapted to production of commercially useful shapes, which comprises subjecting a cold molding resin, produced from a reaction mixture of materials whose major constituents are an organic body and a chloride of sulphur, to pre-induration treatment including addition to about 175 parts of said resin about 50 to 75 parts of sulphur monchloride, raising the melting temperature of the supplemented resin to about 195 to 220 degrees F., and then subjecting said resin to quick hot molding treatment.

1,682,915. HYGROSTAT. GEORGE R. LAWRENCE, Chicago, Ill. Filed Feb. 19, 1927. Serial No. 169,635. 1 Claim. (Cl. 297—2.)



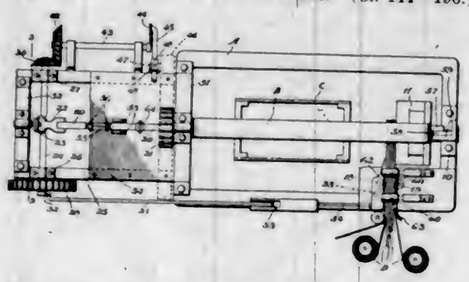
A hygrostat comprising a base of insulating material, two bi-metallic plates anchored at one end to the base in spaced parallel relation, and means for wetting the surface of the one plate, the free end of said plates arranged to contact when the plates are in a predetermined relative position and control an electric circuit, the wetted plate being slightly longer than the other plate to compense for the differences in the movements of the two plates at different ranges of temperatures.

1,682,916. ELECTRIC INCANDESCENT LAMP. STATES LEE LEBAY, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed June 28, 1923. Serial No. 648,371. 6 Claims. (Cl. 176—16.)



1. An electric incandescent lamp having a plurality of substantially U-shaped filaments each formed of a length of coiled filament wire and mounted in parallel planes, the adjacent terminals supporting the filaments having the same potential difference between them as the voltage drop in a single filament element.

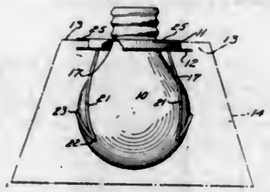
1,682,917. MACHINE FOR MANUFACTURING WOODEN SPOONS. JOHN LEWIS, Brownville, Me. Filed Mar. 28, 1927. Serial No. 179,143. 10 Claims. (Cl. 144—196.)



1. A machine for cutting wooden spoons and other pieces from veneer, comprising a frame, a casting turnably mounted in the frame, a block rigidly secured to the casting, a separably operable pocket slidably mounted in the casting and a cutting die rigidly secured to the pocket and registering with said block, a connecting rod for the cutting die, means for imparting a reciprocal movement to said die, mechanism associated with said rod for imparting a reciprocating movement to the die and the pocket, co-ordinating mechanism operable simultaneously with the connecting rod for feeding material to the die, and means for turning the pocket, the die and the block to synchronize with the operation of the die and the means for feeding the material thereto.

1,682,918. SHADE HOLDER. MATTHEW LUCKIESH, Cleveland, Ohio; LEROY C. DOANE, Meriden, Conn.; and ARTHUR MILLER, Cleveland, Ohio; said Doane and said Miller assignors to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed Nov. 8, 1926. Serial No. 146,881. 8 Claims. (Cl. 240—138.)

1. A shade holder cooperative with an incandescent lamp for supporting a shade therefrom, comprising, an outer ring having an inwardly directed flange having an aperture larger than the lamp base, an inner ring carried inside the outer ring, the hole in the inner ring being slightly larger than the lamp base so that the lamp base may be passed through said inner ring, bent wire supporting members having portions carried between the flange and the inner ring and means for fastening the two rings together, the wire members being capable of being spread by the bulb portion of the lamp.



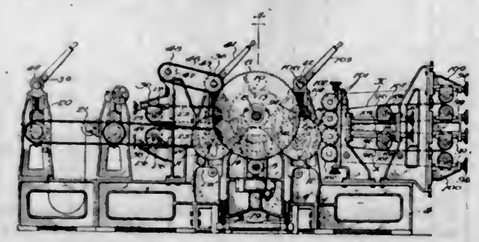
1,682,919. MANUFACTURE OF ERYTHRENE. ALEXANDER T. MAXIMOFF, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Sept. 18, 1926. Serial No. 136,386. 19 Claims. (Cl. 260—171.)

1. Method of manufacturing erythrene which comprises pyrogenically decomposing an aliphatic aldehyde having at least four carbon atoms at temperatures below 500° C. to produce a mixture of erythrene and other products, and recovering the erythrene therefrom.

1,682,920. MANUFACTURE OF THIURAM MONOSULPHIDES. ALEXANDER T. MAXIMOFF, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Sept. 18, 1926. Serial No. 136,387. 4 Claims. (Cl. 260—106.)

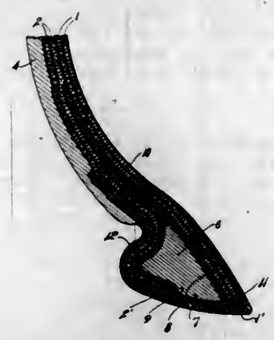
1. The method of preparing thiuram monosulphides from the corresponding thiuram disulphides which comprises treating the thiuram disulphide while in suspension in a non-solvent with a metallic cyanide in aqueous solution.

1,682,921. APPARATUS FOR PRODUCING INDIVIDUAL SHINGLE-SIMULATING ELEMENTS. OWEN D. MCFARLAND, Chicago, Ill., assignor to Guyton & Cumfer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 6, 1926. Serial No. 127,680. 9 Claims. (Cl. 164—28.)



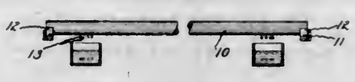
1. A machine for producing individual flexible shingle-simulating elements, comprising in combination a stationary main frame, means for feeding a continuous strip of flexible material into the machine, revolving means adapted to act on said continuously advancing sheet to produce slits and lines of severance therein according to a predetermined design, means for separating the continuous strip so slit and severed into individual elements, means for collecting the separated individual elements, said revolving means comprising a bed roll mounted for rotary movement on a shaft bearing in the main frame, and an opposed design-forming cutting cylinder mounted for rotary movement on a shaft bearing in a movable frame, opposed gears carried by each of said shafts, and means for moving the movable frame into and out of the machine.

1,682,922. RUBBER-TIRE-BEAD CONSTRUCTION. CHARLES W. MCKONE, Canton, Ohio. Filed July 23, 1924. Serial No. 727,783. 1 Claim. (Cl. 152—13.)



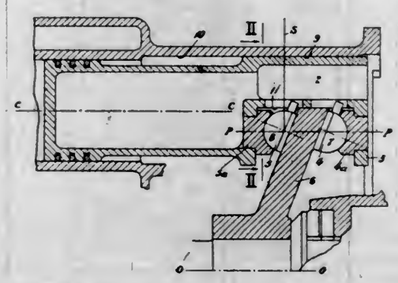
A multiple ply fabric tire comprising a bead core triangular in cross-section and with its inner face widened to extend the toe of the core and provide a recess on its base face marked by a shoulder therein, certain plies of fabric extending across the inner side of the core and terminating adjacent its toe and certain other plies of fabric extending around the outside of the core and terminating at said shoulder in the base side thereof, substantially as set forth.

1,682,923. METHOD OF PRODUCING RUBBER TUBES. CHARLES EDGAR MAYNARD, Northampton, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 16, 1926. Serial No. 102,458. 5 Claims. (Cl. 18—53.)



1. A method of producing a rubber tube which comprises applying bands of cement to a warm mandrel, allowing the cement to dry, rolling a sheet of rubber around the mandrel with the ends of the sheet overlying the bands, and vulcanizing the tube upon the mandrel without external confining means other than the enveloping atmosphere.

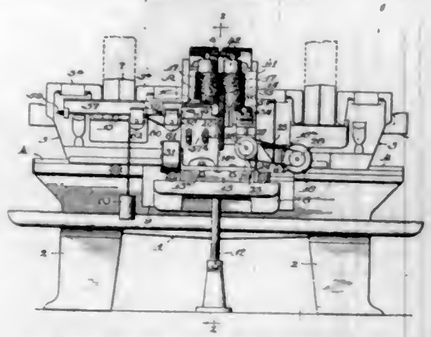
1,682,924. MECHANISM FOR THE INTERCONVERSION OF RECIPROCATING AND ROTARY MOTION. ANTHONY GEORGE MALDON MICHELL, Melbourne, Victoria, Australia, assignor to Crankless Engines Limited, Melbourne, Australia. Filed Jan. 26, 1927, Serial No. 163,765, and in Great Britain Apr. 7, 1926. 5 Claims. (Cl. 74—14.)



1. In mechanism for the interconversion of reciprocating and rotary motion in combination, a reciprocating piston member, a swash plate, a yoke member connected to said

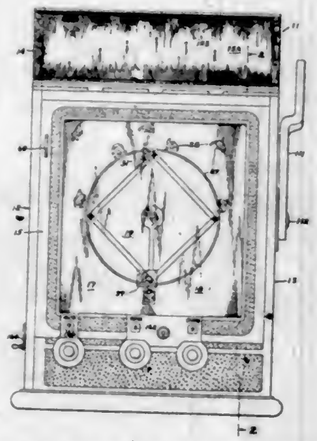
reciprocating member, slipper members having a common pivotal axis carried by the reciprocating member and the yoke member and engaging with opposite sides of the swash plate, an outer cylindrical guide surface on said yoke eccentric to the common axis of said slipper members, a stationary element engaging said outer cylindrical surface, and an inner cylindrical guide surface on said yoke parallel to and in sliding contact with the periphery of the swash plate.

1,682,925. WORK-FEEDING DEVICE FOR GRINDING MACHINES. JOHN MILLER, Jr., Beloit, Wis., assignor to Charles H. Besly and Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 29, 1927. Serial No. 164,388. 14 Claims. (Cl. 51—215.)



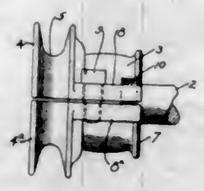
1. In a work feeding device for grinding machines the combination of a pair of rotative grinding discs, means for guiding the work to be ground between said discs, a pair of feed rolls mounted in advance of said discs and in line with said work guiding means, a work magazine, a rotative friction disc mounted at the discharge end of said magazine, and operative to advance the work successively from said magazine to said feed rolls.

1,682,926. GAME APPARATUS. GORDON B. MILLS, Oakland, AUGUST J. SCHMIEDESKAMP, Berkeley, and HENRY E. SKINNER, Oakland, Calif.; said August J. Schmiedeskamp assignor to said Gordon B. Mills and Henry E. Skinner. Filed Dec. 8, 1926. Serial No. 153,228. 10 Claims. (Cl. 273—88.)



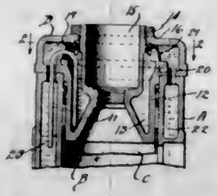
1. In a game apparatus, a playing field providing a series of spaced stations including a starting station, player pieces arranged to be initially positioned at said starting station, means arranged at each successive operation thereof to move a different piece from said starting station to another station and means operative independently of said last means for moving pieces disposed at other than said starting station to said last station.

1,682,927. PULLEY ATTACHMENT. LAURITZ F. NIELSEN, Minneapolis, Minn., assignor to Durkee-Atwood Company, Minneapolis, Minn., a Corporation of Minnesota. Filed May 9, 1921. Serial No. 467,909. 5 Claims. (Cl. 64—18.)



1. The combination, with a pulley having a flanged edge, of an attachment composed of separable sections having a flange for engaging the edge of the pulley, the sections of said attachment having arms thereon to extend across the peripheral face of the pulley in opposing relation, screws passing though said arms for locking them together, and means for rocking one of said sections on the other to clamp it on the pulley.

1,682,928. CYLINDER-HEAD CONSTRUCTION. ARCHIE MACPHAIL NIVEN, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Feb. 21, 1927. Serial No. 169,741. 14 Claims. (Cl. 123—173.)



1. A device of the character described comprising in combination, cooperating elements together forming an engine cylinder and head therefor, a cover, and means providing a fluid tight joint between the cover and one of said elements, said means comprising a sealing structure located within the cover enclosure.

1,682,929. METHOD OF AND APPARATUS FOR INDUCING AND INCREASING THE FLOW OF WELLS. CLARENCE OCHS and BUD HILDEBRAND, Long Beach, Calif., assignors to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of Massachusetts. Filed Mar. 21, 1925. Serial No. 17,171. 40 Claims. (Cl. 103—260.)

1. The method of inducing the flow of wells which comprises forming ascending concentric columns or bodies of well fluid and compressed gas, effecting a gradual mixing of said fluid and gas, imparting a whirling motion thereto during the mixing process, subjecting one of said bodies and the portion of the other mixed therewith alternately



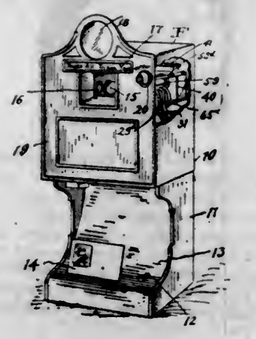
to compression and expansion during the mixing process, and progressively increasing such forced compression and progressively reducing such permitted expansion.

1,682,930. LAMP SOCKET. JOSEPH VICTOR PARENT, Worcester, Mass., assignor to Worcester Electric Supply Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 25, 1926. Serial No. 83,531. 1 Claim. (Cl. 173—346.)



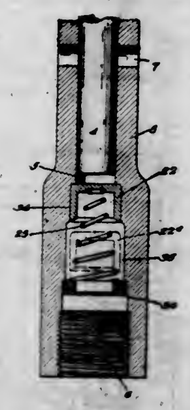
A lamp socket comprising, in combination, an insulating plug engaged with a pair of wires, two spring-pressed inner conducting members connected with said wires guided by the plug, and projecting from one end thereof, a tubular casing in which the plug is movable endwise, the casing being provided with a longitudinal slot and the plug with a stud entering and movable in the slot, so that the plug may be projected and retracted without rotation in the casing, the plug being provided with a recess opening on its periphery, and with a spring-pressed ball in said recess, the sleeve being provided with orifices, into either of which the ball may be forced by its spring, said ball and orifices providing a semi-positive clutch adapted to yieldingly confine the plug, either projected or retracted, an insulating disk rigidly fixed within the casing, two spring-pressed outer conducting members longitudinally movable in said disk and maintained thereby in longitudinal alinement with the inner members, the inner members being separated from the outer members by the retraction of the plug and pressed against the outer members by the projection of the plug, the outer end of the casing being provided with coupling parts to engage complemental coupling parts on a lamp base, and a tubular handle fixed to and slidable with the plug, and overlapping a portion of the casing to cover and exclude dust and moisture from the guiding slot and the ball-receiving orifices therein.

1,682,931. AUTOMATIC PHOTOGRAPHING MACHINE. GEORGE N. PIPER, Cleveland, Ohio, assignor, by mesne assignments, to American Phototure Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 31, 1924. Serial No. 758,989. 37 Claims. (Cl. 95—14.)



6. A photographing machine having means for causing the exposure of a portion of a sensitized flexible strip for the production of a negative, the feed of the strip, the development of the exposed portion thereof to complete the negative, the exposure of a sensitized blank for producing a positive picture from the negative and the development of the positive picture, and having means whereby the sequence of operations for producing the positive picture may be repeated as often as desired so as to produce duplicate positive pictures from the same negative.

1,682,932. DOUBLE-ACTION LUBRICANT COMPRESSOR. EMILE PIQUEREZ, Paris, France, assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 15, 1925, Serial No. 23,352, and in France July 26, 1924. 5 Claims. (Cl. 221—47.4.)



4. A lubricant compressor comprising a barrel, a plunger in said barrel, a discharge conduit for said barrel adapted to be attached to a part to be lubricated, and means for controlling communication between said barrel and said conduit and serving to relieve the pressure on the lubricant in said conduit, said means comprising a check valve having a cylindrical seat and a plane seat, said valve closing return flow by engagement with one seat before engaging the other seat.

1,682,933. STACK OF NESTED CONTAINERS AND METHOD OF PACKING THE SAME. PETER T. POTTS, Chicago, Ill., assignor to The Vortex Mfg. Co., a Corporation of Illinois. Filed Oct. 9, 1924. Serial No. 742,499. 1 Claim. (Cl. 206—56.)

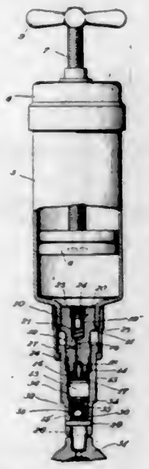


A stack of nested open end flangless articles of flexible resilient material and conical form, and a container therefor shaped to compress the series of articles along one diameter normal to the longitudinal axis of the stack and permit of expansion of the articles along the remaining portions of the peripheries thereof, so that the open ends of the articles are maintained in elliptical form and the edges thereof are separated along the expanded portions to facilitate individual removal of the articles from the stack.

1,682,934. SYNTHETIC RESIN AND METHOD OF PRODUCING THE SAME. LINWOOD T. RICHARDSON, New Brunswick, N. J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 15, 1922. Serial No. 561,008. 6 Claims. (Cl. 260—3.)

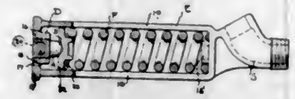
1. An industrially useful hard resin which is the reaction product of furfural and an inorganic substance of acid reaction or character adapted to produce resinification of the furfural.

1,682,935. LUBRICANT COMPRESSOR. JOHN N. ROBIN, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 27, 1923. Serial No. 634,942. 8 Claims. (Cl. 221—47.4.)



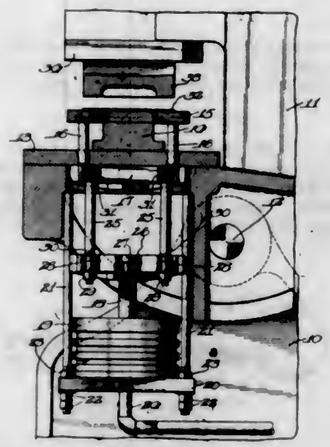
8. In lubricating apparatus of the class described, a lubricant compressor comprising a lubricant containing barrel having at one end thereof, a reduced end portion interiorly and exteriorly threaded, a protective sleeve presenting internal threads engaging the external threads of said reduced end portion and a completely assembled valve unit presenting exterior threads engaging the interior threads of said reduced end portion, said valve unit being protected by said sleeve.

1,682,936. AUTOMATIC TRAIN-PIPE COUPLING. JOSEPH ROBINSON, New York, N. Y. Filed Nov. 26, 1920. Serial No. 426,534. Renewed Nov. 12, 1925. 12 Claims. (Cl. 285—58.)



5. In an automatic train pipe coupling, the combination of a coupling head, a bracket, spaced members secured to said head and extending rearward on opposite sides of said bracket, a flange secured to said members for engaging the rear face of the bracket, a pivot device rigidly mounted on said bracket intermediate the vertical sides thereof and adjustable toward and from said head, a plate arranged between said members and engaging said pivot device and also engaging said spaced members, and a coiled spring arranged between said members and bearing against said plate.

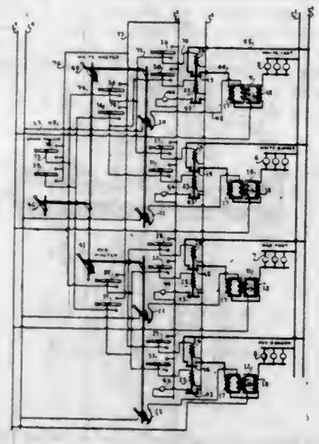
1,682,937. SHEET-METAL PRESS. FREDRICH J. RODE, Chicago, Ill., assignor to Marquette Tool & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1927. Serial No. 165,764. 4 Claims. (Cl. 113—38.)



1. A sheet metal drawing press embodying a pressure pad, a fluid pressure controlled cushion for resisting the movement of the said pad in one direction, said cushion embodying a cylinder and piston relatively movable one with relation to the other, said cylinder and piston being connected one with the stationary part of the press and the other with the said pad, means adapting said pad to be rendered inactive while the said cushion is maintained intact and in operative position upon the press, whereby the press may be converted from a drawing into a blanking or punching press, and means removably supported beneath the bed of the press for receiving and deflecting the punchings away from the press.

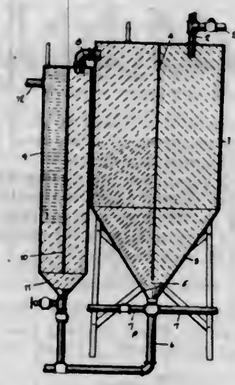
1,682,938. ELECTRICAL CONTROLLER. ARTHUR SIMON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 2, 1922. Serial No. 533,510. 4 Claims. (Cl. 175—312.)

1. In a controller for a plurality of lighting circuits, in combination, individual electromagnetic switches for controlling the continuity of such circuits, individual current control means for said circuits each including a rheostat, and a remote control switchboard comprising interchangeable sections each including an operating member



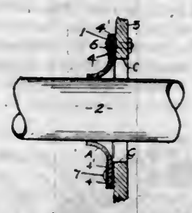
for certain of said rheostats and a pair of double throw switches, certain of said double throw switches being arranged to directly control one of said electromagnetic switches or to extend the control of said electromagnetic switch to another of said double throw switches.

1,682,939. CLEANSING-LIQUID-RESTORING MEANS. MAURICE M. SCHWAB and SAMUEL S. SCHWAB, Toledo, Ohio. Filed Mar. 3, 1927. Serial No. 172,263. 1 Claim. (Cl. 210—58.)



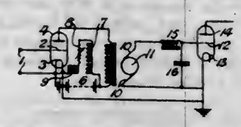
In a cleansing liquid restoring means, a pair of vats, each of the vats having inverted cone shaped bottoms and partitioning walls extending from the tops of the vats towards the bottoms, the partitioning wall of one of the vats extending well within the cone bottom and to near the apex of the cone, the other of the partitioning walls extending to near the bottom of the other vat, means for causing the fluid to enter the top of the first vat, flow down through one chamber and pass through the small opening in the apex of the cone of the bottom of the vat, then to rise and precipitate greases of the liquid in a caustic solution in the other chamber of the first vat and to pass off into the second vat, flowing down through one chamber and passing slowly through the space between the lower edge of the partitioning wall of the said vat and the cone bottom of the vat to carry down the precipitated foreign material to the bottom of the vat and change the direction of flow of the liquid from the downward movement of the precipitated material to an upward movement of the liquid through the other chamber of the vat, leaving the precipitated material in the second named vat.

1,682,940. FLEXIBLE PIPE-SEALING MEANS. BERT H. SMITH, Horton, Kans. Filed Jan. 10, 1927. Serial No. 160,288. 6 Claims. (Cl. 126—314.)



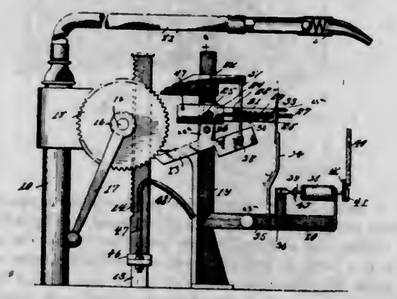
1. In a flexible pipe sealing means, in combination, a wall, a pipe, and a washer, the washer having the peripheral edge of the aperture turned outward to engage on the pipe, said washer being severed at one side through which the said pipe will enter, semi-annular member to receive the outer peripheral portion of the washer, means for attaching said member and the washer simultaneously to the wall as closing means for the opening in said wall through which the pipe extends.

1,682,941. TELEGRAPHY. WILLOUGHBY STATHAM SMITH, Newton Poppleford, and NORMAN WILLIAM MCLACHLAN and WILLIAM GORDON REED JACOB, London, England. Filed Jan. 21, 1928, Serial No. 248,461, and in Great Britain Aug. 23, 1926. 6 Claims. (Cl. 178—65.)



1. Telegraph apparatus comprising in combination generating means, field windings in said means, thermionic means for applying signals to be amplified to said windings, output means in said generating means, output thermionic means, means for applying to the input side of said output thermionic means signal proportional output from said generating means, and means for compensating for direct current for said first mentioned thermionic means passing through said field windings.

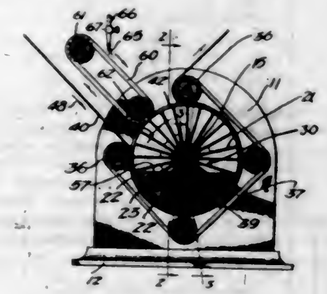
1,682,942. VENDING MACHINE. LEWIS P. STARKEY, Fort Collins, Colo., assignor, by mesne assignments, to Rose E. Starkey. Filed Oct. 5, 1922. Serial No. 592,515. 8 Claims. (Cl. 194—6.)



1. The combination with a pump and a toothed wheel in operative connection therewith, of a mechanism including interconnected pawls adapted to alternately engage the

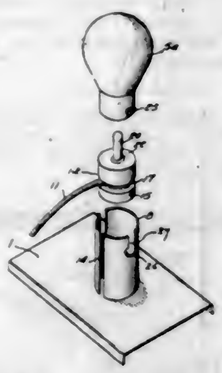
wheel to prevent its movement in opposite directions, resilient means to reverse the position of the pawls relative to the wheel, a latch normally restraining said means, a coin-controlled element to release the latch, and means actuated by movement of the wheel to restore the mechanism to its original condition at a determinate point in the operation of the pump.

1,682,943. APPARATUS FOR TREATING FILMS. WILLIAM M. THOMAS, Los Angeles, Calif., assignor, by mesne assignments, to William M. Thomas and Foster A. Leonard, Los Angeles, Calif., a Copartnership. Filed Sept. 5, 1923. Serial No. 660,970. 6 Claims. (Cl. 95—94.)



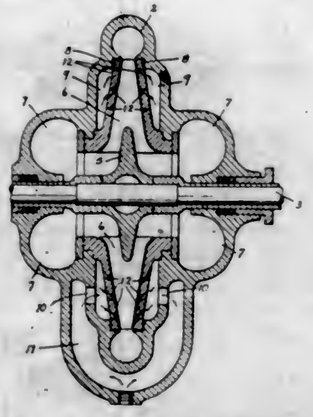
1. In a device for treating film, the combination of: a member having walls defining a number of channels successively disposed in the same radial plane, the outer ends of which are disposed along a curved line in arrangement corresponding to the frames of a film, said channels being alternately interconnected; means for holding a film across the outer ends of said channels; and means whereby treating substances may be placed in said channels so as to make contact with the frames of said film.

1,682,944. LAMP SOCKET. LOUIS VAN GALE, Astoria, N. Y. Filed Jan. 17, 1923. Serial No. 613,123. 2 Claims. (Cl. 173—328.)



1. A lamp socket, including a fixed tubular member having one end adapted by closed attachment for rigid support and having the other end open and free, means for attachment of a lamp at the free end, a longitudinal slot extending from the free end part way down one side, a contact lug and a permanently pre-attached lead wire adapted to be inserted in the socket from the free end with the lead wire sliding through said slot, and contact means projecting from the lug to engage an inserted light bulb.

1,682,945. CENTRIFUGAL VACUUM PUMP. EDWIN M. R. WEINER, Three Rivers, and Floyd F. Woods, Battle Creek, Mich. Filed Aug. 21, 1924. Serial No. 733,415. 6 Claims. (Cl. 230—108.)



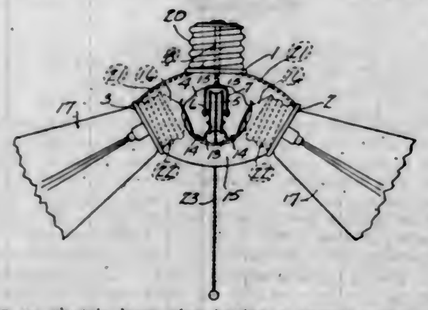
1. In a pump, the combination of a casing provided with inlets at each side, an impeller provided with blades, and entraining plates mounted in said casing at the sides of said impeller blades and providing annular air chambers at each side, said entraining plates having a plurality of slots therein disposed concentrically relative to the axis of the impeller and arranged in overlapping relation, said slots being of inwardly tapering cross section.

1,682,946. CAR-DOOR-LOCKING DEVICE. WILLIAM E. WINE, Toledo, Ohio. Filed Mar. 17, 1922. Serial No. 544,416. 19 Claims. (Cl. 105—308.)



1. In combination with a freight car having a plurality of drop bottom doors, hooks pivotally mounted along the side of the car for supporting said doors, a shaft disposed longitudinally of the car body and having fingers thereon so spaced as to act on said hooks successively when said shaft is moved in one direction to force said hooks from a supporting relation with said doors and thereby permit said doors to swing to an open position.

1,682,947. CHAIN-PULL DOUBLE-SOCKET LAMP PLUG. WESLEY M. WIRE, Newberg, Oreg. Filed Nov. 24, 1923. Serial No. 676,694. 1 Claim. (Cl. 173—336.)



In an electric lamp plug having a central recess and a threaded aperture communicating with said recess, said aperture being adapted to threadedly engage the base of an

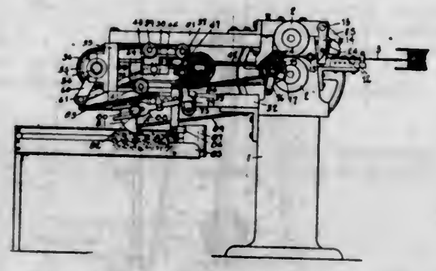
electric lamp, the combination comprising a contact pulley of insulation material journaled in said plug and adapted to rotate within said recess, a spring set chain adapted to engage the periphery of said pulley; a plurality of latch cups positioned in the sides of the pulley; means for connecting some of the latch cups to a source of electricity; and a resilient contact formed of a single piece of metal fastened medially its ends on said plug within said recess, one end of said contact being adapted to engage said pulley and the other end to engage said base of the electric lamp.

1,682,948. WARNING LIGHT. OLIVER C. RITZ WOLLER, Chicago, Ill. Filed July 13, 1925. Serial No. 43,105. 6 Claims. (Cl. 177—329.)



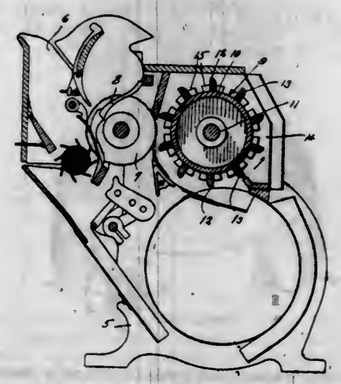
1. A warning light device, comprising in combination a casing member in the form of a ring and having parts projecting inwardly therefrom, a lens in the opening of the ring with its edge portions engaging the inwardly projecting parts of the ring, a retaining member slidably mounted in said ring and held by friction removably therein for holding the lens in position, a bracket carried by said retaining member and projecting backwardly therefrom for supporting an electric light globe therein opposite said lens, a second casing member, and means for detachably connecting said two casing members together serving thereby to secure said retaining member positively in position in said ring.

1,682,949. WIRE-SPRING-MAKING MACHINE. CORBAN H. ZILER, Carthage, Mo., assignor to L. A. Young Industries, Inc., Detroit, Mich. Filed Feb. 5, 1927. Serial No. 166,158. 42 Claims. (Cl. 140—1.)



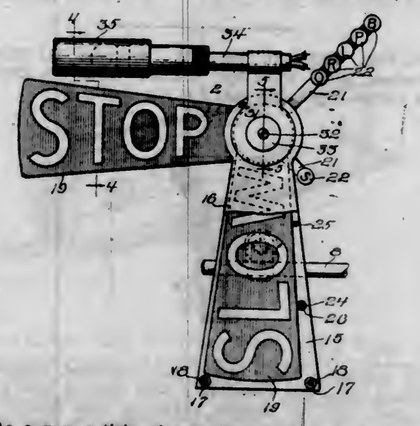
1. In a wire spring making machine, the combination of a coiling means, means for feeding wire to said coiling means, means for severing formed springs from the stock, spaced top and bottom ways, a carriage traveling on the bottom way and provided with a pair of spring clamping jaws, a knotter member coacting with the top way, said knotter member and carriage being slidably associated for relative movement, a knotter gear rotatably mounted on said knotter member, a fixed rack with which said knotter member is slidably associated coacting with said knotter gear, said rack having an untoothed portion at its rear end, said knotter gear having a flattened portion coacting with said untoothed portion of said rack whereby the knotter gear is held against rotation, a jaw closing cam member slidably disposed between said carriage and knotter member for limited movement relative to both, said cam member having driving engagement with said carriage, springs acting to open said jaws, a dog pivoted on said knotter member for locking it to said cam member, said dog being disposed to slidably engage the upper way whereby it is held in engagement with said cam member, said way having a recess in the side thereof permitting the disengagement of said dog, a tripping cam for said dog disposed opposite said recess in said way, actuating means connected to said cam member whereby it is actuated to close the jaws after the knotter member and the carriage have reached the limit of their forward stroke, a dog on said carriage for locking said cam member to said carriage in its jaw actuating position, and means for releasing said dog on said carriage as the knotter member nears the end of its stroke whereby the knotted spring is removed from the knotter gear and the jaws are opened.

1,682,950. GIN BRUSH. HOMER BEAVER, Chickasha, Okla. Filed Oct. 14, 1927. Serial No. 226,157. 1 Claim. (Cl. 19—60.)



In a gin, a housing, gin saws operating in the housing, a gin brush including an elongated body portion, bars formed of wood secured to the periphery of the body portion and extending beyond the surface thereof, said bars operating adjacent to the saws to create a suction within the housing to draw material from the saws, and means for securing the bars to the body portion.

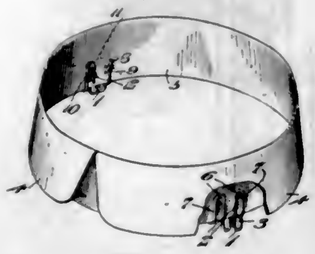
1,682,951. SEMAPHORE AND THE LIKE FOR AUTOMOBILES. JAMES BEEBY, Chicago, Ill. Filed Dec. 7, 1925. Serial No. 73,784. 3 Claims. (Cl. 116—53.)



1. As a new article of manufacture, a semaphore for the purpose specified including in combination a pair of vertical side plates, a series of pins extending between

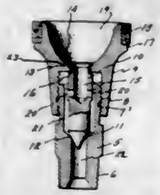
the bottom of the side plates and between the side plates along one edge thereof serving to draw the side plates towards each other, means for limiting the approaching movement of the side plates towards each other, a pivot sleeve extending between the upper portions of the side plates, means for drawing the side plates towards each other at the position of said pivot sleeve and for limiting the approaching movement of the side plates towards each other at such location, a series of semaphore arms pivotally mounted on said pivot sleeve, a series of disks located on said pivot sleeve intermediate bewteen the pivotal ends of the arms, a cross pin extending between the side plates and through the disks at a position above the pivotal ends of the semaphore arms serving to limit the upswing of the arms and to retain the disks against rotation for the purpose specified, and a rubber block located on the pivot sleeve intermediate between each of the side plates and the proximate arm, substantially as described.

1,682,952. NECKTIE RETAINER. JOHN C. BETTS, Philadelphia, Pa. Filed July 22, 1925. Serial No. 45,305. 2 Claims. (Cl. 2—137.)



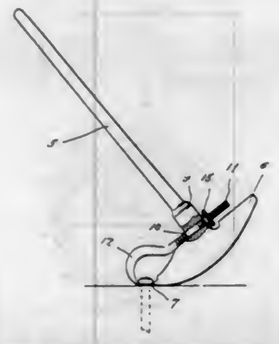
1. A necktie retainer and guide formed of a continuous, resilient wire and comprising a single, front inverted U shaped member having the lower end of one of its vertical limbs deflected inwardly, thence upwardly, thence downwardly and thence upwardly and having an inner, upper, clamping terminal portion, the lower end of the other of said vertical limbs being deflected inwardly, thence upwardly, thence downwardly, thence upwardly and thence downwardly and having an inner, lower, clamping terminal portion, said single front inverted U shaped member being adapted to be positioned between the folds of the collar and said upper and lower terminal clamping members being oppositely disposed and engaging the inner surface of the inner fold of the collar.

1,682,953. PRIMING DEVICE. HERBERT H. BRIDGE, Detroit, Mich. Filed Apr. 4, 1923. Serial No. 629,937. 4 Claims. (Cl. 123—187.5.)



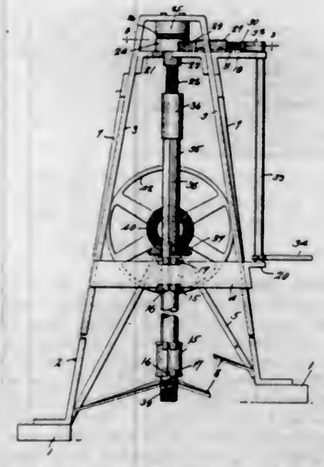
1. A priming device of the class described, comprising a liquid receptacle including a body member and a cup member, said cup member having a stem loosely held therein against displacement, an opening in the top of said stem and an opening in the side thereof communicating with said first opening whereby liquid may flow through said top opening and out said side opening, means on the lower end of said stem for closing the bottom of the body member and means for opening the bottom of said body member to permit the flow of liquid therefrom.

1,682,954. EXTRACTING TOOL. ALMON T. BAUNKOW, Duluth, Kans. Filed June 25, 1927. Serial No. 201,433. 2 Claims. (Cl. 254—25.)



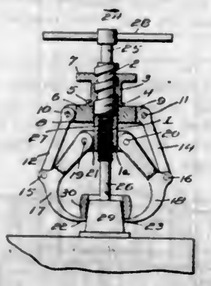
1. In an extracting tool of the character described, a handle lever, a head arranged upon one end of the lever, the front face of said head being of rounded formation to permit the same to be rocked, one end of said head being sharpened for engaging the member to be extracted, a claw member for cooperation with the sharpened edge of the head for engaging the opposite side of said member, and means whereby the claw may be adjustably rigidly secured to the tool in predetermined spaced relation with respect to the sharpened edge of said head.

1,682,955. DRILLING MACHINE. ARCH GLEN COPELAND, Rich Hill, Mo., assignor of one-half to Fred V. Reagel, Jefferson City, Mo. Filed Aug. 25, 1926. Serial No. 131,487. 1 Claim. (Cl. 255—22.)



In a device of the class described, a frame, a drill shaft supported for rotation on the frame, a screw having threaded connection with the drill shaft, means for rotating the drill shaft, a plunger slidable upon the frame, a shoe carried by the plunger and cooperating with the screw to limit the rotation thereof, spring means for retracting the plunger and the shoe with respect to the screw, a second shaft journaled on the frame, mechanism under the control of an operator for rotating the second shaft, and an eccentric on the shaft and coacting with the plunger to advance the plunger and the shoe with respect to the screw.

1,682,956. GRIPPING AND PULLING IMPLEMENT. VERNON B. DAWSON and IVAN B. PENTON, Wilmington, Del. Filed Nov. 10, 1926. Serial No. 147,510. 3 Claims. (Cl. 29—84.)

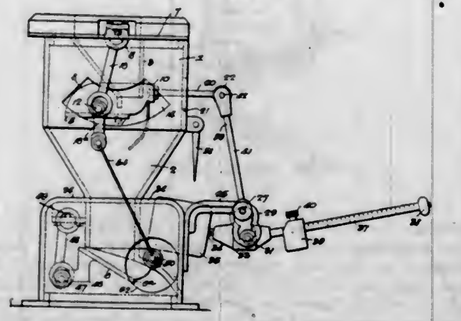


1. A gripping and pulling tool comprising a cylindrical body portion screw threaded on the upper extremity of the exterior surface thereof, journals on opposite sides of the lower portion of said body portion, gripping jaws pivoted in said journals, a rotatable screw threaded device operable upon said screw threaded portion, a laterally extending member adapted to be reciprocated upon said body portion of said rotatable screw threaded device, links connecting the opposite sides of said last mentioned member and said gripping jaws whereby said jaws may be quickly opened and closed, and screw threaded means extending centrally through said body portion for laterally moving said jaws with respect to a fixed point.

1,682,957. COLLODION COATING COMPOSITION. WILLIAM HENRY GARDNER, Los Angeles, Calif., assignor of one-fourth to Clarence Neil De Witt, Los Angeles, Calif. Filed June 23, 1924. Serial No. 721,835. 1 Claim. (Cl. 134—79.)

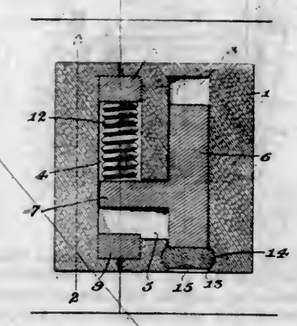
A film protector and preservative solution composed of the following ingredients in the proportions substantially as set forth, namely; one pint of Spar varnish; one quarter pint of ether; one ounce japan drier, one ounce Venice turpentine, and two ounces of collodion.

1,682,958. FEED REGULATOR. DAVID GEDDES, Berkeley, Calif. Filed Jan. 29, 1926. Serial No. 84,654. 16 Claims. (Cl. 83—44.)



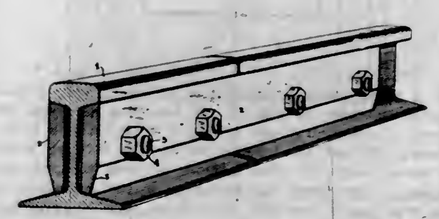
1. The combination in a feed regulator, of a supply duct, a valve for regulating the flow of material through the duct, means tending to hold the valve in open position, a pivoted regulating platform onto which material is delivered from the supply duct, a connection between the platform and the valve for moving the valve in the closing direction when the platform is moved by material engaging therewith, and means automatically serving to change the position of the initial engagement of the material with the platform and thereby change the leverage of said platform in accordance with variations in the position of the valve.

1,682,959. THERMAL CIRCUIT CLOSER. LLOYD GRAYSON, Grafton, W. Va. Filed Mar. 9, 1926. Serial No. 93,519. 3 Claims. (Cl. 200—142.)



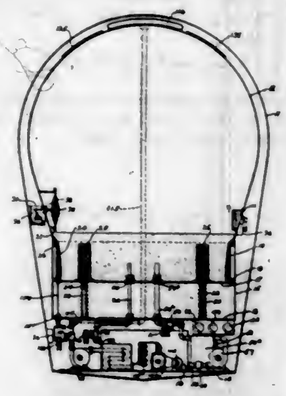
1. A thermal circuit closer comprising a casing having a pair of parallel channels therein, and a communicating passageway therebetween, fixed contacts in one of said channels, a movable contact in alignment with said fixed contacts, a rod slidably mounted in the other of said channels and forming a support for said movable contact, electric conducting means in contact with one of said fixed contacts and said movable contact for biasing the latter toward the other fixed contact, and fusible means for normally holding said biasing means inoperative.

1,682,960. FISHPLATE FOR RAILWAY RAILS. EMIL GRUENFELDT, Cleveland, Ohio, assignor to The Rail Welding and Bonding Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 15, 1922, Serial No. 560,969. Renewed Feb. 2, 1928. 4 Claims. (Cl. 238—164.)



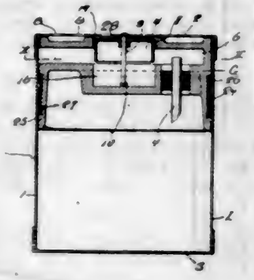
4. A splice plate for a rail joint having upper and lower surfaces adapted to bear against the heads and bases respectively of abutting rail ends and to be thereby positioned substantially parallel to and spaced from the webs of the rails, said plate being formed with a portion of its lower outer edge displaced inwardly relatively to its upper outer edge.

1,682,961. PRESSURE, TEMPERATURE, AND VOLUME INDICATING AND CONTROLLING MEANS FOR AIRCRAFT. CHARLES S. HALL, Oakland, Calif. Filed Mar. 6, 1926. Serial No. 92,791. 20 Claims. (Cl. 244—8.)



1. An aircraft having gas holding compartment therein, means enabling the size of said compartment to be varied, an indicating station, and means connecting said indicating station and said compartment and adapted to indicate the relative volume of gas in the compartment.

1,682,962. VOICE-DEVICE. LEVIN GESSFORD HANDY, Mountain View, N. J., assignor, by mesne assignments, to Voices Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Dec. 24, 1924. Serial No. 757,845. 17 Claims. (Cl. 46—46.)



1. A voice device comprising a bellows having a head adapted to move by gravity for expelling air from the bellows, a sounding device arranged to be sounded by the outgoing air and there being an opening through which the sound issues, a valve member movable through said opening to interrupt the sounding of the sounding device, and means whereby said valve member will pass relatively successively in opposite directions through said opening during each air expelling movement of said head.

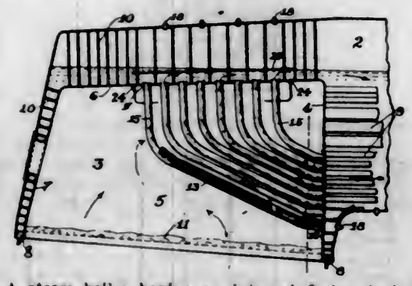
1,682,963. MAILING AND DISPLAY CARTON. WADE L. HARDY, South Bend, Ind., assignor to L. P. Hardy Co., South Bend, Ind., a Corporation of Indiana. Filed Apr. 16, 1927. Serial No. 184,308. 2 Claims. (Cl. 206—44.)

1. The combination with a carton, one wall of said carton having formed integral therewith an easel leg, a brace member for said leg formed integral with said wall, said brace member and leg being normally in the plane of the wall, of a flap carried by the carton and overlying the



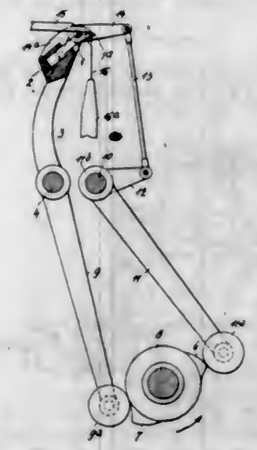
wall, the leg and the brace member and forming means for maintaining said leg and brace member in the plane of the wall.

1,682,964. LOCOMOTIVE-BOILER FIRE BOX. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed May 13, 1922. Serial No. 560,657. 3 Claims. (Cl. 122—68.)



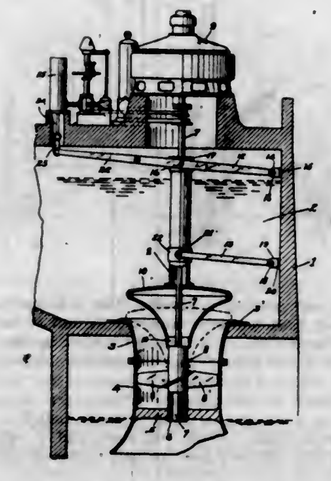
1. A steam boiler having an internal firebox including a flue sheet at one end and a crown sheet at the top, and a group of water tubes all arranged in the same longitudinal vertical plane in the fire box and opening at one end through the crown sheet and opening at the other end through the flue sheet with some of said tubes communicating with the front water leg of the boiler above said water leg, the tube ends in the crown sheet being spaced a greater distance apart than the tube ends in the flue sheet.

1,682,965. STRAIGHT-KNITTING FRAME. WOLDEMAR HEINITZ, Chemnitz, Germany. Filed Nov. 13, 1924, Serial No. 749,646, and in Germany Dec. 18, 1923. 4 Claims. (Cl. 66—109.)



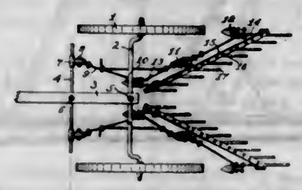
4. In a straight knitting frame, in combination jack sinkers, knock-over sinkers having each a locking-in throat, a nib above this latter, and a beak below the same, a bar carrying these knock-over sinkers, double-armed levers carrying this bar at one of their arms, other double-armed levers supporting the first-mentioned ones at their upper ends, the points of fulcrum lying in the ideal line extending through the extreme ends of the nibs of the knock-over sinkers, a shaft and two cams thereon, a lever arranged to be rocked by one of the cams in predetermined intervals, arms connected with this lever, and rods connecting these arms with the free arms of the first-mentioned double-armed levers, the second cam being arranged to rock the double-armed lever mentioned in the second place in predetermined intervals, substantially as described.

1,682,966. WATER WHEEL. JOHN J. HOPPES, Springfield, Ohio. Filed July 14, 1924. Serial No. 725,788. 3 Claims. (Cl. 253—154.)



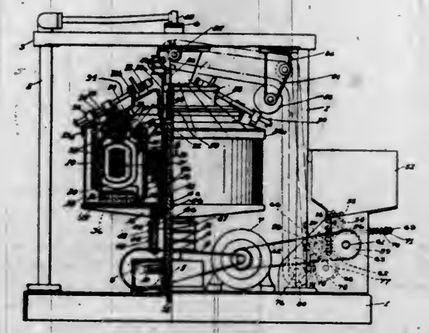
1. In a water wheel, a runner having blades, a casing enclosing said runner, a valve controlling the inlet end of said casing and cooperating therewith to form a water passageway, a single centrally arranged stem connected with said valve, and radius rods pivotally connecting said stem with a stationary point.

1,682,967. RAKE ATTACHMENT FOR CULTIVATORS. JOHN HOYLE and STEPHEN T. SHORT, Buchanan County, Iowa. Filed Jan. 31, 1927. Serial No. 164,807. 1 Claim. (Cl. 97—8.)



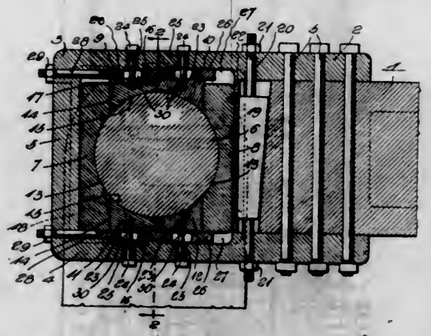
In a cultivator, a pair of like but reversed bipartite gang frames, independently movable, and positioned side by side, gangs of shovels rigidly mounted on forward parts of said frames and in echelon thereon, with the gangs on one frame reversed in alinement relative to the other gang, the other parts of said frames being vertically spaced apertured horizontal bars mounted in parallelism to the rear of the forward parts of said frames, and tines having their forward ends clamped between said spaced bars, the forward parts being transversely flattened, elastic, and curved downwardly, the free terminations of the tines being cylindrical, rigid and pointed, and removable fastening devices in the apertures of said spaced bars to clamp a tine between each adjacent pair thereof, permitting when the said devices are loosened, independent lateral swinging adjustments of each curvate time relative to the line of draft of the said bars and gang frame.

1,682,968. ELECTRIC METAL-STOCK HEATER. ERNEST S. JEFFERIES, Hamilton, Ontario, Canada. Filed Dec. 6, 1926. Serial No. 153,000. 15 Claims. (Cl. 219—11.)



1. In a rotary metal stock heater, a tank mounted to rotate on an axis, annular electrodes supported by said tank, a magnetic core in said tank, and primary and secondary circuits surrounding said core, said secondary electrically connected to said electrodes.

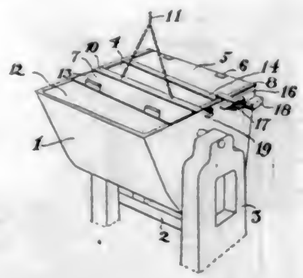
1,682,969. MAIN-ROD BEARING. JULIUS KINDERVATER, New York, N. Y. Filed Dec. 1, 1925. Serial No. 72,528. 5 Claims. (Cl. 308—68.)



1. In a rod bearing, a frame having an opening of substantially rectangular form, two end bearing brasses disposed at opposite ends of the opening and extending substantially the full depth thereof, each end bearing brass having a bearing surface extending substantially on an arc of 90° and having upper and lower abutment surfaces above and below said bearing surface, a top bearing brass formed of a pair of independent members disposed between the upper abutment surfaces of the end bearing brasses and on opposite sides of the vertical center of the bearing and each having a bearing surface extending substantially on an arc of 45°, a bottom bearing brass formed of

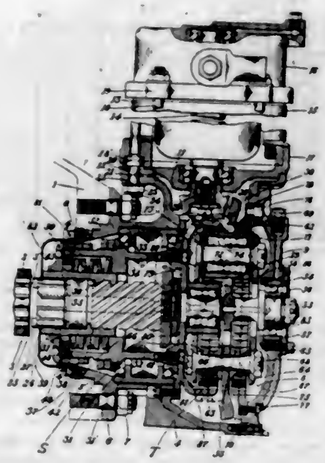
a pair of independent members disposed between the lower abutment surfaces of the end bearing brasses and on opposite sides of the vertical center of the bearing and each having a bearing surface extending substantially on an arc of 45°, means located at one end of the bearing opening and acting upon one of the end bearing brasses for holding the bearing brasses assembled in the frame, and adjusting means for said top and bottom bearing brasses between said top and bottom bearing brasses and the top and bottom walls of the frame opening.

1,682,970. MIXER. RAY KNAPP, Buffalo, N. Y. Filed May 19, 1927. Serial No. 192,599. 6 Claims. (Cl. 192—135.)



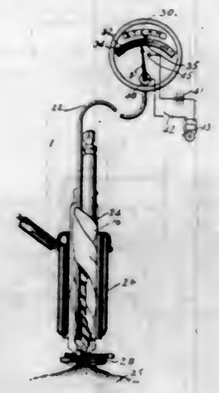
4. A closure unit comprising a plate, flanges on opposite sides of the plate to provide grooves along the margins thereof, a cross-bar connected to the flanges and spaced from the base of the plate, a second plate adapted to slide in the grooves of the first plate, means carried by the second plate to contact with the cross-bar to limit the movement thereof, and a contact means movable with said second plate for operating a control device.

1,682,971. ENGINE-STARTING APPARATUS. RAYMOND P. LANSING, Montclair, N. J., assignor, by mesne assignments, to Eclipse Machine Company, New York, N. Y., a Corporation of New York. Filed June 30, 1919. Serial No. 307,713. 56 Claims. (Cl. 123—179.)



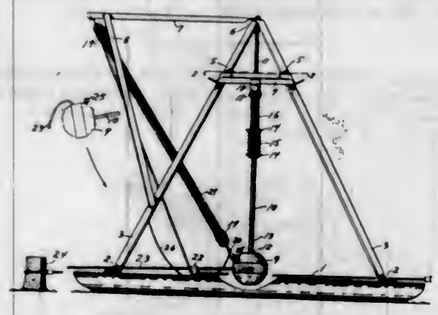
1. The combination in an engine starter, of a starting means, a transmission connecting said means to an engine, said transmission including a splined hub, an annular plate embracing said hub, and splined at its inner periphery to cooperate with the splines on said hub, and means responsive to a back-fire of said engine to move said hub out of engagement with said plate for interrupting said transmission.

1,682,972. PERMANENT-WAVING APPARATUS. WILBUR S. LEWIS, Lakewood, Ohio, assignor to The S. Le Mur Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 6, 1927. Serial No. 181,328. 17 Claims. (Cl. 132—36.)



1. In a hair waving apparatus, the combination with a curler rod upon which is wound a strand of hair, of a fluid-containing cell, of a wrapper enclosing the wound strand of hair and the cell and a container telescoped over the wound strand of hair and cell, means to heat the wound strand of hair in the presence of moisture through the walls of the container, a fluid pressure indicator means disposed exteriorally of the container and a tube interconnecting the said cell and the said indicator means.

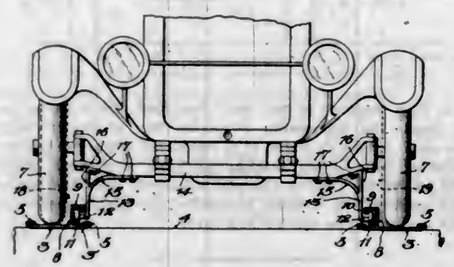
1,682,973. STUMP-PULLING MACHINE. GERHARDT L. LUERSSEN, Parma, Mo. Filed May 20, 1927. Serial No. 192,969. 1 Claim. (Cl. 254—135.)



A stump puller including a portable frame comprising a structural support and skids upon which said support is mounted, a heavy weight suspended from the upper portion of said structural support in a central position, said weight having an approximately funnel-shaped opening for the admittance and unimpeded action of a rope or chain connecting the stump to be extracted and the hanger passing thru said weight, two extensible elements comprising each a spring constrained between two cap plates with two draw-bars and their connections, each extensible element being suspended from opposite sides of the structural

frame and attached at their lower ends to the above mentioned weight, the weight with its hanger and the two extensible elements being articulated in such manner at their upper ends as to be capable of swinging together as a pendular element, means of raising said pendular element comprising a structural extension of the main structural frame, a multiple pulley block depending therefrom, a similar multiple pulley bock attached to said weight, and a rope threaded thru said pulley blocks, means for suddenly releasing said pendular element consisting of a trip hook and trip rope.

1,682,974. HIGH-SPEED TRACKWAY. FRANCIS J. LUKENS, Washington, D. C. Filed Oct. 7, 1927. Serial No. 224,599. 3 Claims. (Cl. 238—4.)



1. In combination, a wheeled vehicle having a depending support carrying a guide wheel, and a track having a base portion to receive the vehicle wheel and guide wheel, and having a guide way for the guide wheel adapted to engage the said wheel on each side thereof to limit its lateral movement.

1,682,975. PROCESS FOR PROTECTING WOOL AND FUR FROM MOTHS. ERNST MECKBACH, Opladen, Germany, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Filed Aug. 11, 1921, Serial No. 491,570, and in Germany May 13, 1918. 7 Claims. (Cl. 167—6.)

1. Process for protecting wool, fur and other similar materials against attack by moth which comprises treating the same with a solution containing an inorganic compound of fluorine in a manner similar to the method employed for dyeing fabrics with acid dyestuffs, whereby the inorganic compound of fluorine is fixed in the material in moth-proofing quantity.

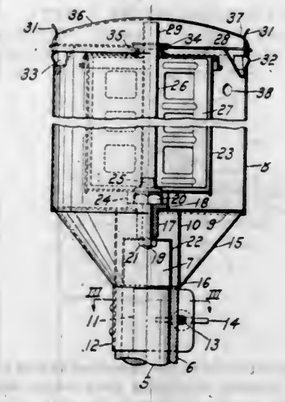
4. Process for protecting wool, fur and other similar materials against attack by moth which comprises treating the same with a solution containing a double salt of fluorine in a manner similar to the method employed for dyeing fabrics with acid dyestuffs, whereby the double salt of fluorine is fixed in the material in moth-proofing quantity.

5. A moth-proofed material comprising a material liable to attack by moth impregnated with an inorganic fluorine compound, said moth-proofed material being substantially proof against loss of its mothproofness by dusting or by washing with water as incurred in ordinary usage and wear.

7. A moth-proofed material comprising material liable to attack by moth impregnated with an inorganic double salt of fluorine.

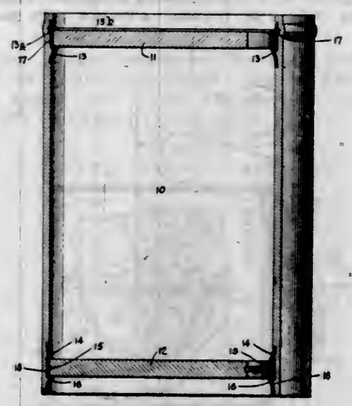
1,682,976. ICE-CREAM FREEZER. BASIL W. MCGINNIS, Birmingham, Ala., assignor, by mesne assignments, to Universal Metal Mfg. Co., Birmingham, Ala., a Corporation of Alabama. Filed Sept. 25, 1926. Serial No. 137,757. 6 Claims. (Cl. 259—36.)

1. A freezer attachment for a machine having a vertically extending turnable shaft with a surrounding sleeve, said attachment comprising a receptacle for a freezing substance, supporting means for securing said receptacle to the sleeve and against turning movement, and a container



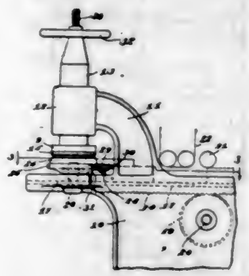
within said receptacle and rotatable relative thereto, said container being connected for power transmission with said shaft by a connection extending through said supporting means.

1,682,977. PAPER RECEPTACLE OR CONTAINER AND ART OF MAKING THE SAME. FRED T. NICHOLSON, Bloomfield, N. J. Original application filed Jan. 24, 1920, Serial No. 353,692. Divided and this application filed Nov. 24, 1922. Serial No. 602,944. 6 Claims. (Cl. 229—5.5.)



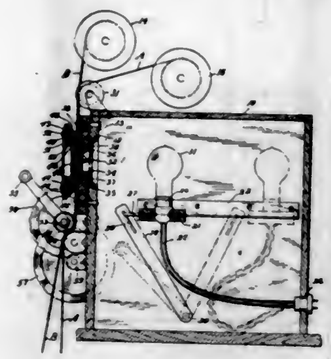
1. In a container of the class described, a tubular body having a wall composed of a plurality of continuous turns or layers of paper, at least the inner layers being indented circumferentially to form an inwardly-extending circumferential rib and having reinforcing means for the rib, disposed between the turns or layers of paper without crossing a turn or layer of the paper, said tubular body having a circumferential groove axially spaced from said rib, a closure engaged by said rib and held thereby against displacement in one axial direction, and means adapted to seat in said groove and engage said closure for holding said closure against displacement in the opposite axial direction.

1,682,978. MACHINE FOR PRINTING OR EMBOSSING. SKIDMORE O'HARA, Waltham, Mass., assignor to O'Hara Waltham Company, Waltham, Mass., a Corporation of Massachusetts. Filed May 20, 1927. Serial No. 193,039. 3 Claims. (Cl. 101—41.)



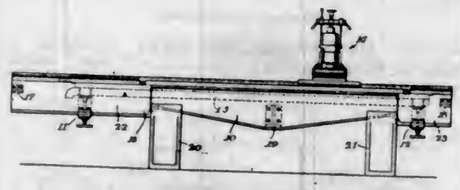
1. A machine of the character described having a vertically reciprocable printing member, a work holder mounted on an arm pivotally mounted adjacent the path of movement of the printing member and adapted to swing in a horizontal plane on its pivot to bring the work into and out of alinement with the printing member, a die having thereon the design to be printed, a reciprocable die carrier, means for reciprocating the die carrier to move the die into and out of alinement with the printing member, and a bumper carried by the die carrier which when the die is moved into operative position beneath the printing member engages the said work holder arm and turns it on its pivot to move the work holder out of alinement with the printing member.

1,682,979. MOTION-PICTURE-PRINTING MECHANISM. FRANK E. OILER, Detroit, Mich., assignor to Mantor, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 28, 1924. Serial No. 702,552. 4 Claims. (Cl. 95—75.)



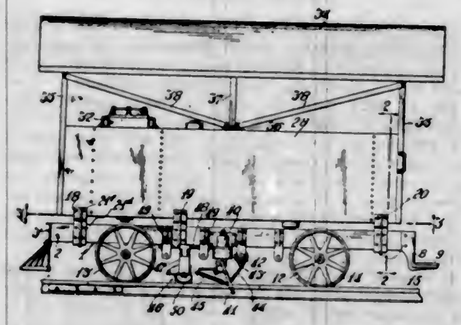
1. A printing machine comprising a casing having a window in one of its walls, guide members within the casing extending toward and away from said window, an illuminator having a mounting on said guide members permitting movement of the illuminator in the line of the window, a lever connected with said mounting having an operating handle to the exterior of the casing for adjusting the position of the illuminator, a ground glass diffuser mounted within the window, a spacer member beyond said ground glass provided with means for guiding positive and negative films and holding them in contact and provided with means for permitting the inspection of the film during its exposure, and means for feeding the film past the window.

1,682,980. MACHINE FOR PLANING SUCTION BOXES. HARRY M. OSTERTAG, Appleton, Wis., assignor, by mesne assignments, to Paper Patents Company, Neenah, Wis., a Corporation of Wisconsin. Filed July 29, 1927. Serial No. 209,271. 14 Claims. (Cl. 144—288.)



1. In a machine of the class described, the cambination of means for supporting a suction box at substantially the same points at which it is supported when operatively mounted in a paper making machine, a planing device and means for guiding the planing device over the top of said suction box, thereby to control the planing effect of said device on the suction box cover.

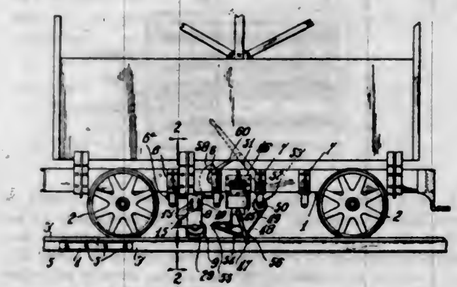
1,682,981. CAR CONSTRUCTION. HARRY W. PROTZELLER, East Chicago, Ind., assignor to O. F. Jordan Company, East Chicago, Ind., a Corporation of Indiana. Filed Feb. 23, 1927. Serial No. 170,296. 11 Claims. (Cl. 105—369.)



1. A car embodying therein, a frame including side sills, each comprising at least a pair of spaced parallel sill members, a filler block fixed between and to the ends of each pair of sill members, and end sills fixed at their ends to the ends of said filler blocks.

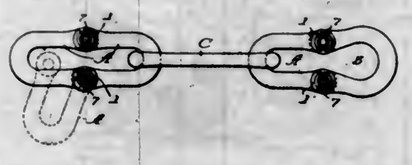
1,682,982. AUTOMATIC MAKE AND BREAK CONTACTOR. HARRY W. PROTZELLER, East Chicago, Ind., assignor to O. F. Jordan Company, East Chicago, Ind., a Corporation of Indiana. Filed Feb. 23, 1927. Serial No. 170,300. 5 Claims. (Cl. 104—279.)

1. A contactor of the kind described embodying therein a supporting member, a roller journaled on one end thereof for guiding engagement with a rail, means at the other end of said member for supporting the same from above to maintain said roller in engagement with said rail by gravity, a stationary contact member on said supporting member, a double arm lever pivoted on said member, a contact member movable with one arm thereof into and out of engagement with said stationary contact member, a joint plate contact finger removably secured to the other



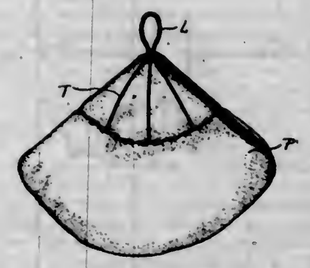
arm of said lever and means so connected to said lever as to hold the contact finger movable therewith out of engagement with said stationary contact member.

1,682,983. DRAG-CHAIN LINK. WILLIAM M. PRYOR, St. Louis, Mo., assignor to Southern Manganese Steel Company, St. Louis, Mo., a Corporation of Delaware. Filed Apr. 9, 1927. Serial No. 182,242. 2 Claims. (Cl. 59—85.)



2. In composite links, members having ends meeting and articulated to produce a complete link; one end at each point of articulation being bifurcated and the other single and fitting between the members of the bifurcation; and a pin passing through each bifurcated end and the intervening single end; one of the members of each bifurcation being diametrically grooved and the portion of the pin adjacent thereto carrying a transverse pin lying in said groove; the axes of the pins being perpendicular to and spaced apart in the plane of the link.

1,682,984. POWDER PUFF. LOUIS L. RAYNOR, New Rochelle, N. Y., assignor, by mesne assignments, to The Hygienol Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 17, 1927. Serial No. 213,559. 1 Claim. (Cl. 132—78.5.)



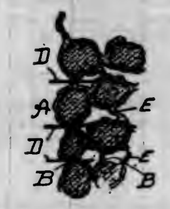
A powder puff of substantially triangular form, said puff being made of soft material throughout, the apex portion of said puff constituting a hand-hold portion, the remainder of said puff constituting a powder-applying portion, the outer surface of said hand-hold portion having threads thereon to render said outer surface of the hand-hold portion unsuitable for applying powder.

1,682,985. NEEDLE FOR REPAIRING RUNS IN KNITTED FABRICS. HARRY T. ROLLINS, Des Moines, Iowa. Filed May 10, 1927. Serial No. 190,245. 1 Claim. (Cl. 66—117.)



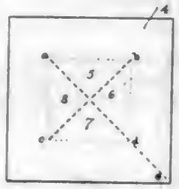
A knitting needle comprising a handle having one end terminating in a hook, a pivoted latch formed of spring material adapted to move from a position closing said hook to an open position adjacent to one side of said handle, said parts being so constructed and arranged that as the latch is forced to its closed position it will bend, and upon being released it will spring back to its normal shape and be thrown toward open position.

1,682,986. SOUND-ABSORBING SURFACE AND PROCESS OF PRODUCING SAME. LYAL B. RYMARCZICK, Los Angeles, Calif. Filed Aug. 29, 1927. Serial No. 216,325. 2 Claims. (Cl. 72—17.)



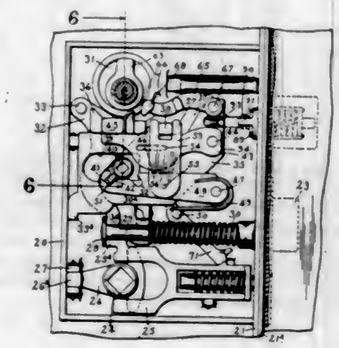
1. The process of producing a sound absorbing wall which consists in providing a plaster including porous granular particles that will prevent close packing and produce voids between the particles, applying the plaster to the surface to be covered, permitting the plaster to set, and in penetrating the exposed face of the plaster and continuing this step of penetrating the material to break down the hardened surface film induced by seepage of cementitious moisture in the act of applying the plaster and to break down the inner texture of the material at the boundaries of the voids between the granular particles, whereby to establish inter-communication between the voids and to open the voids to the exposed outer face of the material.

1,682,987. PAPER COVER FOR TOILET SEATS. HILDA M. SAXON, Bellingham, Wash. Filed Sept. 7, 1926. Serial No. 133,774. 1 Claim. (Cl. 4—243.)



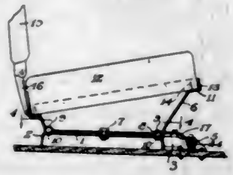
A sheet of paper for the specified use having crossing rows of perforations all confined to its central area except one of said rows one end of which is extended to the margin of said sheet of paper.

1,682,988. LOCK. JOHN H. SHAW, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn. Original application filed Apr. 25, 1924, Serial No. 708,918. Divided and this application filed Jan. 26, 1927. Serial No. 163,726. 5 Claims. (Cl. 70—6.)



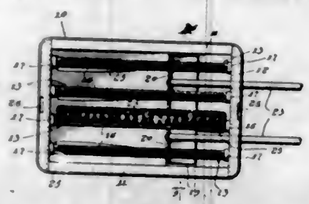
1. In combination, a door lock provided with a bolt and a face-plate having an opening therein, a strike-plate cooperating with the lock, an indicator on the strike-plate provided with a controlling member protractable from this plate into the face-plate opening, and a member movably mounted upon and entirely supported by the front face of the lock case and adapted to contact with said protractable member to prevent movement thereof.

1,682,989. AUTOMOBILE SEAT AND THE LIKE. LE ROY SMELKER, Germantown, Ohio. Filed July 14, 1926. Serial No. 122,321. 4 Claims. (Cl. 155—95.)



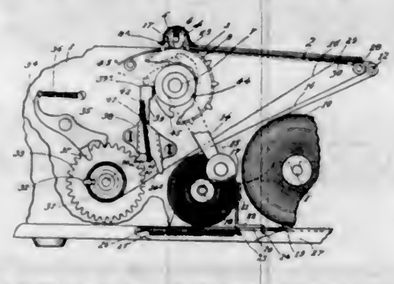
1. A rotatable seat for an automobile comprising a base concaved on its under side, supported on the floor of the car and presenting a bearing face upwardly, a base concaved upwardly presenting a bearing face to the bearing face of the floor base, rotatable thereon, and having an upwardly extended wall including a circumferentially arranged shoulder and flange acting respectively for supporting and retaining the seat cushion.

1,682,990. TOILET SEAT. OLIVER P. SMITH, Chicago, Ill. Filed May 12, 1927. Serial No. 190,750. 15 Claims. (Cl. 132—87.)



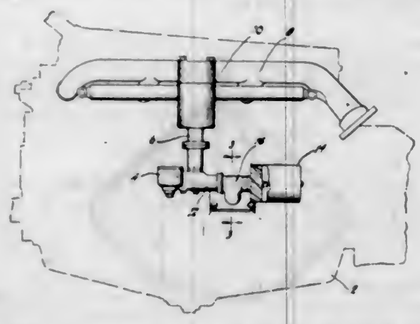
1. In a device of the character described, a casing, a brush member normally enclosed in said casing, and an extension for actuating said brush member and normally substantially enclosed in said casing, said extension being slidably mounted to extend out of said casing thereby affording a handle for said device and actuating said brush member to a position such that it projects out of said casing.

1,682,991. MANIFOLDING REGISTER. JOHN Q. SHERMAN and ALBERT W. METZNER, Dayton, Ohio; said Metzner assignor to said Sherman. Filed Oct. 30, 1922. Serial No. 597,723. 3 Claims. (Cl. 242—55.)



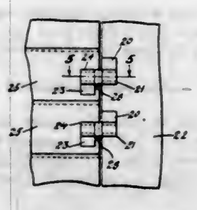
1. A device for operating the rewind roll of a summary strip in manifolding machines, comprising in combination a frame with a rotary feed shaft therein, a rotary rewind roll, a toothed member thereon, a pawl slidable as to the frame, and in the path of the toothed member, and means on the feed shaft for operating the pawl, whereby the pawl by contact with the toothed member will actuate the rewind roll.

1,682,992. VENTILATING DEVICE FOR ENGINE CRANK CASES. CALEB E. SUMMERS, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 25, 1926. Serial No. 118,492. 8 Claims. (Cl. 123—119.)



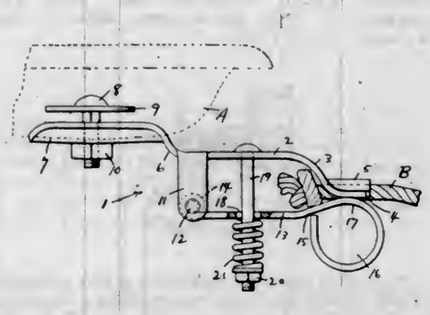
1. The combination of an engine having a crankcase, a passage leading from the crankcase, a conduit for conducting a stream of air across the passage, and a partition in the passage projecting into the conduit for diverting a portion of the air stream passing through the latter into the passage on one side of the partition, the air stream passing through the conduit exerting an aspirating effect on the portion of the passage at the other side of the partition for withdrawing vapors from the crankcase.

1,682,993. HINGE. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 8, 1926. Serial No. 86,828. 2 Claims. (Cl. 16—168.)



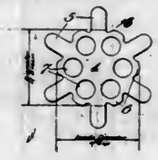
1. A hinge, comprising in combination, a pair of hinge straps having eye portions in axial alignment and spaced relation; a rubber pivot member flexible by torque, said pivot having reduced ends oppositely disposed and anchored in the eye portions of the hinge straps, the portion of the said pivot member between said hinge straps being of greater transverse dimensions than the two ends anchored to said straps.

1,682,994. ROPE HOLDER. CHARLES L. SIMON, Beardsley, Minn. Filed Dec. 16, 1927. Serial No. 240,549. 1 Claim. (Cl. 280—33.16.)



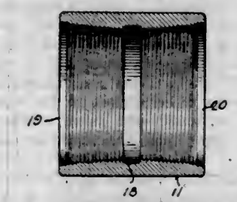
In a rope holder of the class described, an elongated flat upper bar, the forward end portion thereof being constructed for attachment to a tractor seat, the rear end portion of said bar being constructed to form a transversely curved jaw, depending ears formed at the side edges of the intermediate portion of the upper bar, a lower bar pivotally secured at its end between the lower ends of said ears, the rear end of said lower bar being bent upwardly to form a jaw complementary to the first mentioned jaw, the free end portion of said last mentioned jaw being bent to form a finger engaging portion, a bolt secured at its upper end to the intermediate portion of the upper bar and extending downwardly through the intermediate portion of the lower bar, a nut threaded on the lower end of the bolt, and an expansible coil spring encircling the lower portion of the bolt and disposed between the nut and the lower bar for normally urging the lower bar upwardly to maintain the complementary jaws in engagement with each other to secure the knotted end of the rope therebetween.

1,682,995. DRY CELL. EDWARD C. SMITH, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Feb. 10, 1927. Serial No. 167,257. 6 Claims. (Cl. 136—123.)



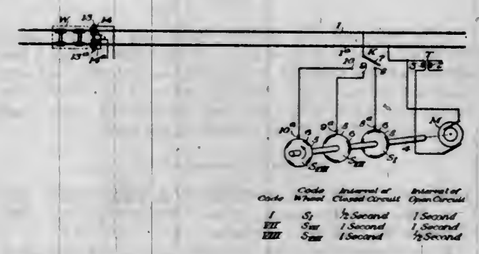
1. A galvanic cell comprising a container electrode, a depolarizing bobbin therein, and a spacer comprising a sheet having edge portions adapted to engage the side walls of the container electrode, said sheet having tangs upturned between the edge portions and adapted to receive the bobbin snugly therebetween, said spacer having perforations in the portion below the bobbin.

1,682,996. METHOD OF MAKING PIPE COUPLINGS. LLOYD RAYMOND SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed July 15, 1927. Serial No. 205,964. 3 Claims. (Cl. 29—156.)



1. The method of making a pipe coupling which consists in forming a metal bar with an intermediate, longitudinally extending tap clearance and surfaces sloping oppositely therefrom on one of its broader sides, converting the said bar into a tube with the said side upon its interior and the ends of the bar abutting, and welding the meeting ends of the bar to constitute an integral tubular structure having inwardly tapering openings which terminate at the tap clearance.

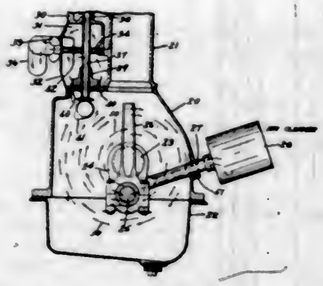
1,682,997. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. ANDREW J. SORENSEN, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 21, 1925. Serial No. 31,754. 13 Claims. (Cl. 246—63.)



1. In combination, a member biased to one position, a motor device for moving said member from said position, dampling means for retarding motion of said member,

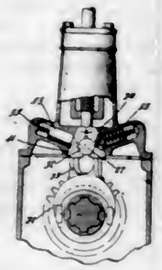
means for supplying said motor device with different code impulse combinations comprising impulses of energy separated by time intervals whereby said member occupies different other positions depending on the proportion of a given interval of time that said motor device is energized, and contacts controlled by said member.

1,682,998. INTERNAL-COMBUSTION ENGINE. CALEB E. SUMMERS, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 13, 1925. Serial No. 15,413. 2 Claims. (Cl. 123—119.)



1. An internal combustion engine comprising cylinders, pistons in the cylinders, a valve compartment, a crankcase having an air admission opening, said valve compartment being in communication with said crankcase to receive air and gases therefrom, and a conduit leading from said valve compartment and extending rearwardly of the engine so as to be subject to the aspirating action of passing air currents, said valve compartments being provided with a cover upon which said conduit is mounted.

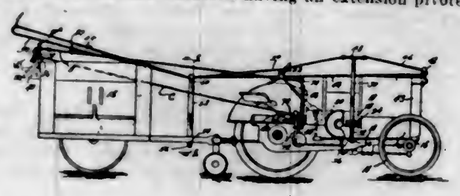
1,682,999. TRANSMISSION. PERRY L. TENNEY, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 16, 1926. Serial No. 116,381. 4 Claims. (Cl. 74—39.)



1. A gear shifting device comprising a gear casing including a cover, a fixed rail, a shifter fork having a long sliding bearing with the casing cover on one side, and with said rail on the other side, the plane of the bearing between the casing cover and fork being at an acute angle to the plane of the lower surface of the cover.

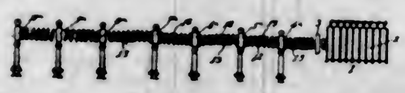
1,683,000. REMOTE CONTROL FOR TRACTORS. GUY A. TRAUGER, Livermore, Iowa. Filed Sept. 30, 1926. Serial No. 138,805. 2 Claims. (Cl. 180—77.)

1. In combination with a tractor having steering mechanism including a drag link and a steering arm for operating the same, a remote control device comprising a bracket mounted on the tractor, a steering lever pivoted thereto, a clamp member comprising two semi-circular members having ears, clamping bolts through said ears for clamping said clamp member on said drag link, one of said semi-circular members having an extension pivoted



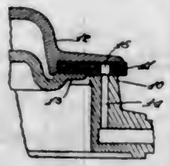
to said steering lever a pulley mounted on said tractor and a steering rope extending from said steering lever to the operator and back through said pulley back to the steering lever.

1,683,001. METAL ROLLING. JOHN B. TYTUS, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Apr. 9, 1925. Serial No. 21,814. 1 Claim. (Cl. 80—60.)



That process of reducing thick wide metal to thin plates which consists in furnishing a series of heated pieces to thick metal, passing said metal in single thickness through successive stands of rolls, without reheating, maintaining said rolls cold, and providing in each stand for enforcing a transverse convexity on the piece with each stand enforcing a less convexity than the preceding stand.

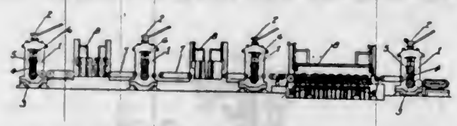
1,683,002. VALVE CONSTRUCTION. EMIL TYDEN, Evanston, Ill. Filed Feb. 3, 1926. Serial No. 85,656. 4 Claims. (Cl. 277—20.)



1. In a valve device for controlling a port encompassed by a seat for the valve, a valve comprising a face-forming part of relatively soft compressible material as rubber, leather and the like, and a rigid part forming the backing for the valve on which said compressible part is mounted, said compressible part having a recess open toward the valve seat and extending entirely through said compressible part so as to constitute an aperture therethrough, said aperture being at least equal in area to the port to be controlled and positioned for registering with said port at the seating position of the valve, whereby said apertured part operates valve-wise at its opposite faces upon the valve seat and upon the backing member of the valve respectively.

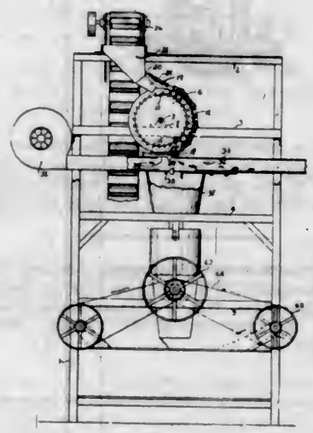
1,683,003. ROLLING SHEET METAL. JOHN B. TYTUS, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Apr. 30, 1926. Serial No. 105,845. 3 Claims. (Cl. 29—19.)

1. A process of rolling hot packs for the production of sheets which consists in passing the packs through successive stands of rolls in a series, and in said stands engaging the packs by small diameter rolls backed by rolls of larger diameter, said rolls being maintained cold, and controlling the temperature of the packs between selected



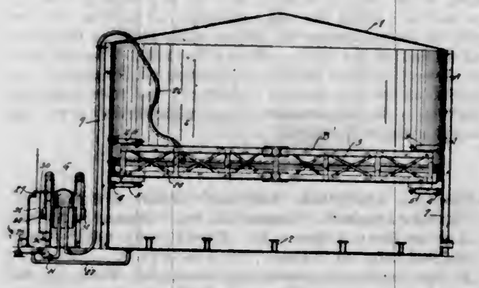
stands, and preserving an active pass in each stand which has less of a convex curve, than the convexity of the pack prior to its passage therethrough.

1,683,004. MACHINE FOR HUSKING NUTS. ALBERT P. J. VOIOT, Galveston, Tex. Filed Oct. 22, 1926. Serial No. 143,355. 5 Claims. (Cl. 83—36.)



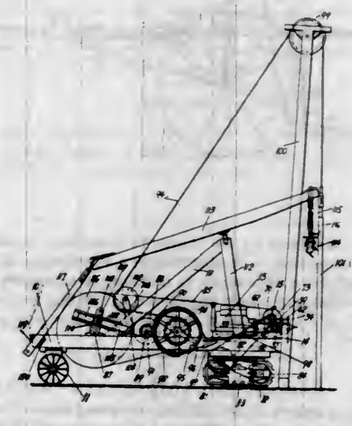
1. In a device of the character described, a husking device comprising a rotating disc cutter, toothed both transversely and circumferentially, a stationary member comprising a plurality of rows of links toothed at each end and secured transversely together to produce a flexible cutter, and means to hold said flexible cutter yieldably toward said rotary cutter.

1,683,005. GAS HOLDER. JOHN H. WIGGINS, Bartlesville, Okla. Filed July 20, 1925. Serial No. 44,855. 4 Claims. (Cl. 48—176.)



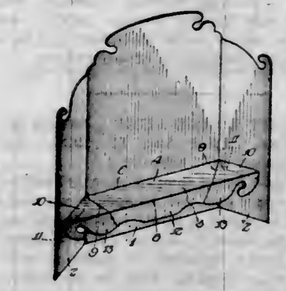
1. A gas holder, comprising a cylindrical side wall, a vertically-movable deck or piston having its peripheral portion spaced away from said side wall, a radially-movable flexible sealing apparatus at the periphery of the deck that acts on the side wall of the holder, a supporting means for said sealing apparatus, a gas-tight, flexible closure for the space between said sealing apparatus and deck, and means for recovering any gas that escapes upwardly through the joint between said sealing apparatus and side wall.

1,683,006. DRILLING MACHINE. ALTON F. YEATON, Akron, Ohio, assignor to The Star Drilling Machine Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 26, 1924. Serial No. 757,972. 2 Claims. (Cl. 255—11.)



1. In a drilling machine, a drilling apparatus, a prime mover, a transmission connected thereto and including a longitudinal shaft having forward and reverse gearing thereon, a transverse shaft having shiftable reduction gearing thereon and operable by either the forward or reverse gearing, a second transverse shaft parallel to the first shaft and driven by the reduction gearing, means on said second transverse shaft for driving the drilling apparatus, a tractor for bodily transporting the drilling machine, and means on said second transverse shaft adapted to be selectively employed to drive said tractor, whereby driving of the drilling apparatus or tractor is effected directly through only one transmission.

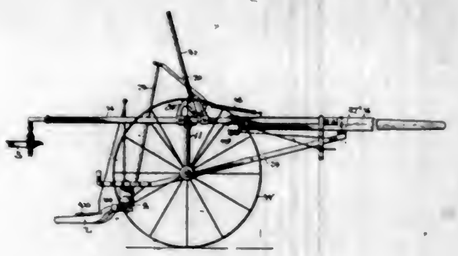
1,683,007. FOLDING-SHELF DISPLAY CARD. HENRY ZIEMMERMAN, Chicago, Ill., assignor to Chicago Cardboard Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 5, 1926. Serial No. 99,718. 7 Claims. (Cl. 211—72.)



1. In a display device of the class described, a shelf foldable transversely into sections and having a depending flange along the front, the fold line of the flange crossing

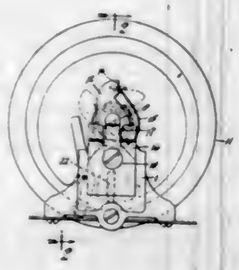
the sectional fold lines of the shelf to prevent the shelf from collapsing until the flange is folded into the plane of the shelf.

1,683,008. CULTIVATOR. RASMUS AARVIG, Pontiac, Ill.; Bessie Aarvig Jenkins administratrix of said Rasmus Aarvig, deceased. Filed Nov. 25, 1922. Serial No. 603,312. 11 Claims. (Cl. 97—161.)



1. In a cultivator of the character described, a cultivating unit comprising, a carrier having a rearwardly directed socket provided with a series of notches, an elongated blade having a shank extending therealong and fitting said socket and having a rib adapted to selectively engage any of said notches.

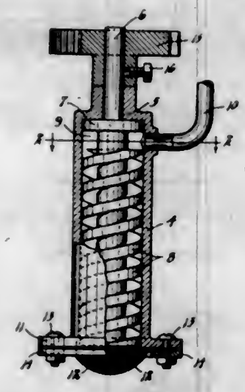
1,683,009. HAIRSPRING-ADJUSTMENT RETAINER. RAY E. AMIDON, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Mar. 1, 1926. Serial No. 91,534. 7 Claims. (Cl. 264—13.)



1. A rotary spindle, means for biasing the spindle to rotation in one direction, movable adjusting means for controlling the said biasing means, yielding means to retain the spindle against axial movement and to hold the adjusting means in its position of adjustment.

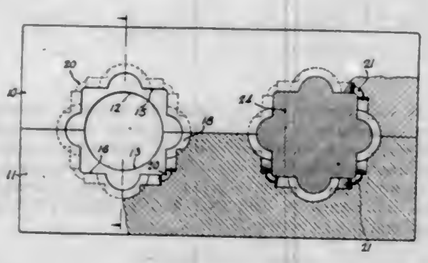
1,683,010. ROTARY LIQUID PUMP. JOSEPH M. ANDERSON, Elko, Minn. Filed Aug. 17, 1927. Serial No. 213,521. 2 Claims. (Cl. 103—89.)

1. A rotary liquid pump comprising a cylindrical casing having a closed upper end and an open lower end adapted to be submerged in liquid, a screw journaled in said upper end and extending through said casing, said screw having screw threads closely engaging the walls of said casing, said screw threads extending from the lower end of said casing to adjacent the top thereof but terminating some distance from the top to form a small chamber at the upper end of said casing, said casing having a discharge outlet extending laterally from said chamber, means for rotating said screw and a flange carried by said screw, rotating therewith, abutting the upper end of said casing and being of substantially the same diameter as the interior diameter of said casing, said flange sealing the bearing for said



screw, having a close running fit with the top and internal wall of said casing and forming a rotatable top wall for said chamber in one continuous plane whereby friction of the liquid against the top of said casing is prevented.

1,683,011. PROCESS FOR FORGING. BIRGER TORVALD ANDREN, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Apr. 14, 1926. Serial No. 101,908. 3 Claims. (Cl. 78—81.)

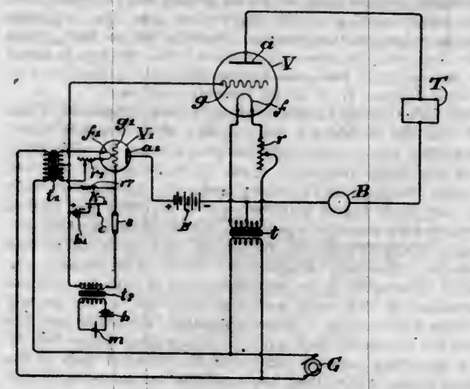


1. The method of forging simultaneously a plurality of shaped articles, which comprises the steps of providing a forging die with article shaping recesses in plural number equal to the number of articles to be so produced, heating the end of a metal bar and arranging and holding the bar with its heated end in the die, exerting pressure upon the heated end of the bar to expand the metal laterally into the several recesses of the die, holding the expanded end portion of the bar against movement, and then applying pressure to the bar to move it longitudinally and sever the shaped articles therefrom.

1,683,012. CONTROL METHOD AND APPARATUS. THOMAS APPLEBY, Philadelphia, Pa., assignor to Arthur Atwater Kent, Ardmore, Pa. Filed Dec. 31, 1921. Serial No. 526,123. 34 Claims. (Cl. 179—171.)

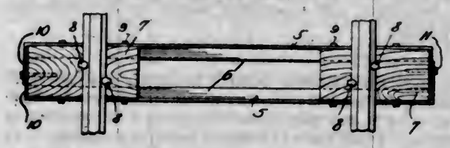
1. The method of controlling thermionic discharge between anode and cathode of a thermionic device having anode, cathode and control electrode, with an unsaturated thermionic impedance comprising an anode and cathode connected in circuit directly between said control electrode

and cathode of said thermionic device with the cathode of said impedance presented to said control electrode, which comprises controlling the leakage through said impedance



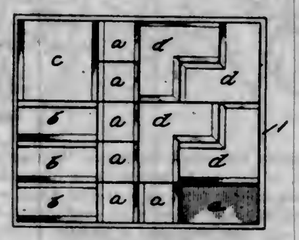
between said control electrode and cathode of said thermionic device by controlling the temperature of said cathode of said impedance.

1,683,013. RAILROAD CROSSTIE. CHARLES L. ARNOLD, Bardstown, Ky. Filed Sept. 29, 1927. Serial No. 222,858. 1 Claim. (Cl. 238—58.)



A railway tie including angle bars of equal lengths arranged in parallel spaced relation with each other, the ends of the angle bars extending inwardly at right angles and overlapping each other, the overlapping ends having registering openings, wooden blocks fitted within the angle bars and contacting with the inturned ends, spikes extending through the registering openings and imbedded in the ends of the blocks, and the wooden blocks extending appreciable distances above the upper edges of the angle bars to receive railway rails.

1,683,014. PUZZLE. FAY L. BABCOCK, St. Petersburg, Fla. Filed Oct. 8, 1927. Serial No. 224,939. 3 Claims. (Cl. 273—132.)



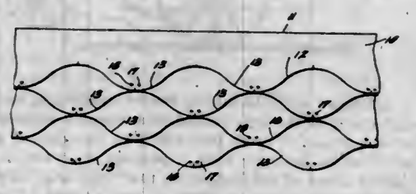
1. A puzzle comprising an open casing and a series of elements arranged therein in contact and in number to provide an unoccupied space in the casing, the elements comprising a number of unitary elements of square surface form, a number of elements of rectangular form including a surface area twice that of the unit elements, a number of elements of right angled form having a surface area three times that of the unit elements, and a master element having a surface area four times that of the unit elements.

1,683,015. CLOSURE SEAL. CLIFFORD WAYNE BARBOUR and LAMOINE S. CARSON, Norman, Okla. Filed May 9, 1927. Serial No. 190,014. 2 Claims. (Cl. 220—55.)



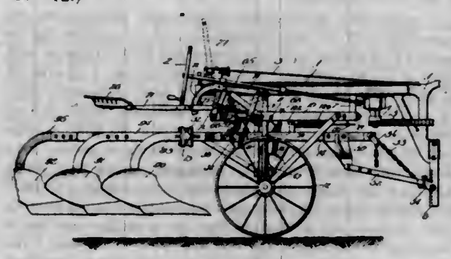
1. A sealable closure, consisting of the usual upstanding neck of a container, a closure for application to the same, both the wall of the neck and the wall of the closure being provided with elongated slots substantially equidistantly disposed about the walls, a flexible strand passing through the slots of both walls and also through diametrically opposed sets of the slots, and a seal holding the free ends of the seal after passing through said slots.

1,683,016. ROOFING STRIP. ELVA L. BELL and ORLANDO M. BEEBE, Spokane, Wash. Filed Sept. 6, 1927. Serial No. 217,772. 4 Claims. (Cl. 108—7.)



1. As an element of a roof made up of plurality of strips of composition material applied in overlapped relationship, a strip of flexible material having one edge scalloped, and fasteners in the lobe portions of said edge adapted to hold said lobe portions flat against the underlying strip and to pass through said underlying strip into the roof to secure both strips in place.

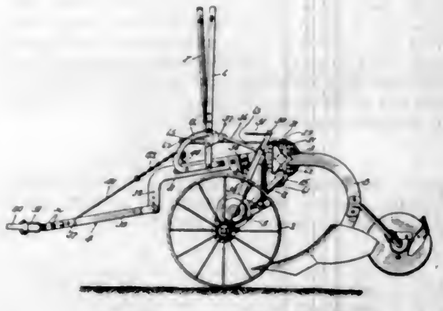
1,683,017. POWER FARMING APPARATUS. HARRY A. BECHTELHEIMER, Rock Island, and HENRY P. CORBIN, Moline, Ill., assignors, by mesne assignments, to Moline Implement Company, a Corporation of Illinois. Filed Feb. 9, 1922. Serial No. 535,187. 16 Claims. (Cl. 97—72.)



1. A universal implement carriage for front wheel drive tractors of the type having a rearwardly extending coupling frame, comprising a wheeled frame adapted to be positioned beneath a tractor coupling frame and having connections for attaching it to said coupling frame, tool supporting means to which a wide variety of agricultural tools, including heavy tools such as plows, may be adjustably and detachably connected, a draft structure connected to said means, means for supporting the draft structure on the wheeled frame so that it may be moved relative to the frame from a lowered or working position to a raised or transport position and vice versa, said supporting means including connections preventing the draft structure

from moving laterally relative to the frame, hitch connections for connecting the draft structure to a tractor, and mechanical power-lift mechanism for raising and lowering the draft structure relative to the wheeled frame.

1,683,018. UNIVERSAL AGRICULTURAL IMPLEMENT. JOSEPH E. BODA, Moline, Ill., assignor, by mesne assignments, to Moline Implement Company, a Corporation of Illinois. Filed Sept. 25, 1922. Serial No. 590,314. 14 Claims. (Cl. 97—47.)



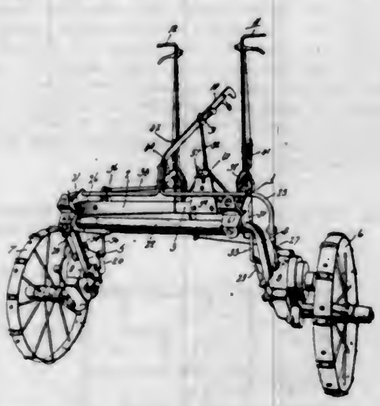
1. A universal agricultural implement comprising an independent unit of the drag-behind type adapted to be connected to a source of draft power and to be adjusted and controlled by an operator from a position on a source of draft power ahead of the implement, said implement having a tool supporting means to which a wide variety of agricultural tools, including heavy tools such as plows, may be adjustably and detachably connected, crank axles carrying ground wheels for supporting the implement, means for adjusting the crank axles relative to one another to maintain the tool supporting means level when one of the wheels runs on a lower level than the other, draft connections for connecting said tool supporting means to a source of draft power to pull the implement, powerlift mechanism operated by travel of the implement for swinging the crank axles to raise and lower the implement, and controlling means for the powerlift mechanism, said controlling means and the adjusting means for the crank axles including elements that may be easily manipulated from a position on a source of draft power to which the implement may be connected.

5. A universal agricultural implement comprising an independent unit of the drag-behind type adapted to be connected to a source of draft power and to be adjusted and controlled by an operator from a position on a source of draft power ahead of the implement, said implement having a single, rectangular tool bar positioned with two of its edges in a substantially vertical plane so that a wide variety of tools, including heavy tools such as plows, may be adjustably and detachably clamped to the bar, draft connections for connecting said bar to a source of draft power, crank axles carrying ground wheels for supporting the bar, means for adjusting the crank axles relative to one another to maintain the tool bar level when one of the wheels is required to run in a furrow, powerlift mechanism operated by travel of the implement for swinging the crank axles to raise and lower the tool bar, and controlling means for the powerlift mechanism, said controlling means and the means for adjusting the crank axles including portions by means of which they may be easily manipulated by an operator from a position on a source of draft power to which the implement may be connected.

10. A universal agricultural implement having a single tool bar to which a wide variety of agricultural tools may be adjustably and detachably connected, draft connections for connecting said bar to a source of draft power such as a tractor or the like, crank axles carrying ground wheels for supporting the bar, powerlift mechanism operated by the travel of the implement for swinging the crank axles to raise and lower the bar, means for adjusting the crank axles to vary the depth of working of the implement and to maintain the tool bar level when the implement is in working position with one of its ground wheels lower than the other, said powerlift mechanism and the adjusting means being constructed and co-ordinated so that, when the implement is raised by the powerlift, the bar is lifted to substantially the same height above the ground and to a level position from all its working positions.

14. A universal agricultural implement comprising a single tool bar to which a wide variety of agricultural tools, including heavy tools such as plows, may be adjustably and detachably connected, a pair of draft beams connected to said tool bar and extending forwardly, the forward ends of said draft beams being connected together and having downwardly extending portions, a pair of crank axles pivotally connected to the implement and carrying ground wheels, means for adjusting the crank axles to vary the depth of working of the implement and to vary the relative positions of the crank axles so that one of the ground wheels may run on a lower level than the other and the tool bar be maintained level, said adjusting means including operating members located at the forward ends of the draft beams where they are available for ready operation by an operator seated on a source of draft power such as a tractor to which the implement may be connected, powerlift mechanism operated by travel of one or more of the ground wheels for swinging the crank axles to raise and lower the forward ends of the draft beams and acting as a flexible hitch which adjusts itself to the line of draft when the implement is in working position but serving to automatically limit the upward movement of the forward end of the implement as the implement is raised by the powerlift mechanism, and controlling means for the powerlift mechanism.

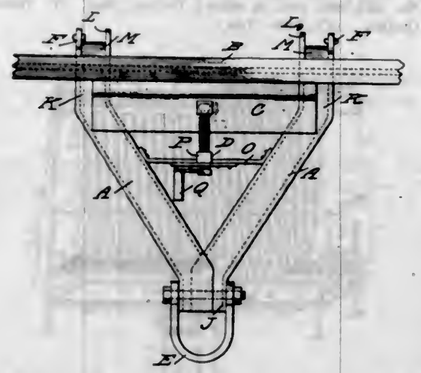
1,683,019. UNIVERSAL AGRICULTURAL IMPLEMENT. JOSEPH E. BODA, Moline, Ill., assignor, by mesne assignments, to Moline Implement Company, a Corporation of Illinois. Filed June 11, 1923. Serial No. 644,581. 11 Claims. (Cl. 97—47.)



1. A frameless, universal, implement carriage adapted to be connected to and to be pulled by a forwardly located source of draft power such as a tractor from which it is to be controlled, comprising tool supporting draft bars having their rear ends arranged to be detachably connected to a variety of agricultural tool units comprising a plurality of tools attached to a common supporting bar, a wheeled support for the draft bars, means for raising and lowering the draft bars, and means for controlling the raising and lowering means having portions located forwardly where they may be easily manipulated by an operator on a source of draft power to which the carriage may be connected.

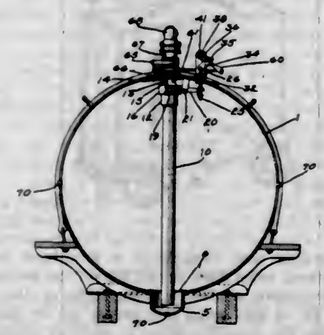
6. The combination with an agricultural tool unit comprising one or more tools connected to a common supporting bar, of a frameless draft carriage detachably connected to said bar, said carriage comprising draft bars for connection to the supporting bar, supporting wheels movable vertically with relation to said bars, means for moving the wheels to raise and lower the tool unit and means for adjusting the wheels vertically to vary the working position of the tool unit.

1,683,020. AUTOMOBILE LIFTER. LOUIS T. BIEGLER, Aberdeen, S. Dak. Filed Apr. 11, 1927. Serial No. 182,901. 2 Claims. (Cl. 294—82.)



1. A lift for automobiles and the like, comprising bars connected at their forward ends and rearwardly divergent, said bars including rearwardly extending parallel portions at the ends of the divergent portions, such parallel portions being designed to underlie and provide supporting means for the axle of the vehicle and being terminally formed as upstanding forwardly directed hooks having their upper surfaces downwardly and forwardly inclined to wedge beneath the rear upper flange of the vehicle axle, a single plate slidably supported on both bars with its forward portion resting on the bars and its rear portion spaced from the upper surface of the bars, the rear edge of the plate being substantially in alignment with the hook terminals of the bars, and means for moving the plate toward the hook terminals to thereby wedge such hook terminals in place.

1,683,021. OIL-DISPENSING APPARATUS. GEORGE A. BROWN, St. Paul, Minn. Filed Sept. 3, 1927. Serial No. 217,405. 8 Claims. (Cl. 221—74.)



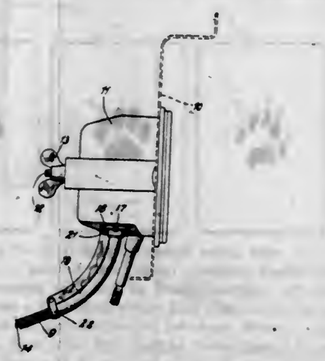
1. A tank having a siphon tube having its delivery end projecting through the tank, and having a port within the tank and above the intake end of the tube, a valve for controlling the discharge through the tube at the outer side of the tank, a valve for closing said port, and connections between the valves whereby gravity action of the inner valve to open the port will cause the outer valve to close.

1,683,022. DEMOUNTABLE HUT. GEORGE BULBECK, London, England. Filed Nov. 6, 1926. Serial No. 146,728. 7 Claims. (Cl. 189—2.)



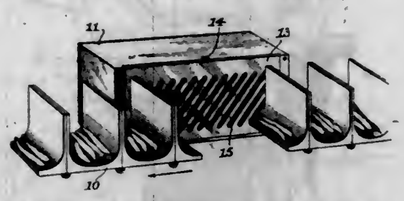
1. A temporary building construction comprising a frame, a plurality of sheets for covering said frame, strips of wood fixed to said sheets and clamping devices for securing said sheets to said frame wherein said clamping devices consist of movable clip members embracing the members of said frame and screws for fixing said clip members detachably to said strips of wood.

1,683,023. FLEXIBLE TUBE SUPPORT. ALBERT CHAMPION, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed July 2, 1926. Serial No. 120,239. 3 Claims. (Cl. 64—30.)



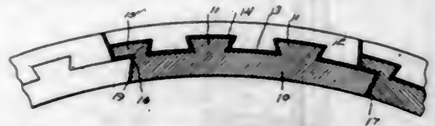
1. A flexible drive shaft casing having a rigid sheath for the end comprising a stamping having a curved cross section and a radial external flange, the said curved portion shaped to fit over the flexible casing, and means associated with the said radial flange whereby the sheath is fixed to the said casing.

1,683,024. BEAN-SNIPPING MACHINE. QUINBY CLIMER, Chillicothe, Ohio, assignor of one-half to Charles M. Haynes, Chillicothe, Ohio. Filed July 30, 1927. Serial No. 209,409. 9 Claims. (Cl. 146—86.)



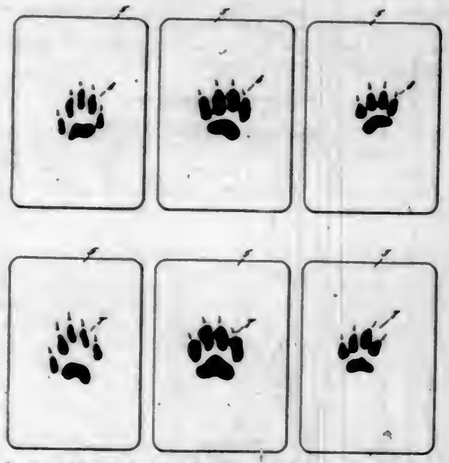
5. In a bean snipping machine, in combination, a traveling conveyor for the beans, and a suction box having at its front a plate provided with slots inclined downwardly in the direction of travel of the conveyor, the forward edges of the slots being beveled to form cutting edges.

1,683,025. LINER BLOCK FOR CEMENT SEWER PIPES. ROY M. DALLAM, Fort Dodge, Iowa. Filed June 28, 1926. Serial No. 119,187. 4 Claims. (Cl. 72—51.)



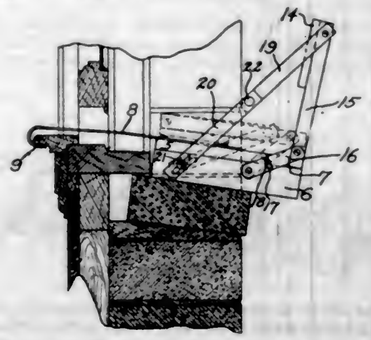
1. A liner block comprising a rectangular body portion having its outer surface provided with longitudinal ribs, and one end provided with an offset flange, the inner surface of said flange being provided with longitudinal ribs, the side edges of all of said ribs being beveled inwardly.

1,683,026. CARD GAME. JOHN WILLIAM DONOVAN, Sunburst, Mont. Filed Apr. 16, 1928. Serial No. 270,364. 2 Claims. (Cl. 273—152.)



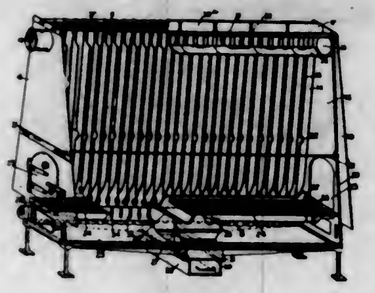
1. A card game comprising a deck of cards of a predetermined number, each card having a space provided with the representation of the foot prints of one of the feet of an animal, said cards including a series of complete sets of cards, each set corresponding in number with the feet of a particular animal and each card of each set having the representation of one of the foot prints of such animal thereon and combining upon being properly matched with the remaining cards of the set to complete said set.

1,683,027. WINDOW SEAT. CLEMENS E. EHNBORN, Chicago, Ill. Filed Aug. 23, 1926. Serial No. 130,824. 6 Claims. (Cl. 304—24.)



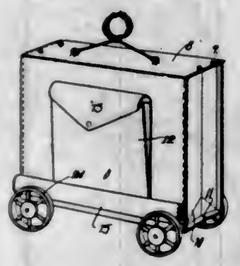
1. A construction of the class described comprising a seat member; a back member foldable on said seat member; a clamping member adjustably mounted on said seat and arranged to clamp the same to different sizes of window sills; and swinging brace links for supporting the back in open position and adapted to extend into the path of said clamping member when the back is extended to lock said clamping member against adjustment but release the same when said back is folded, substantially as described.

1,683,028. APPARATUS FOR SUPPLYING A CURRENT OF HEATED AIR OR GAS. VIVIAN ELKINGTON, St. Margarets Bay, England. Filed Nov. 7, 1927, Serial No. 231,740, and in Great Britain Nov. 11, 1926. 7 Claims. (Cl. 126—104.)



1. A furnace for producing a rapid current of heated air, comprising a pair of end plates, two pairs of walls extending between the said end plates and constituted by a pair of inner metal heating walls converging inwardly and upwardly towards one another throughout their entire length, and a pair of outer walls converging inwardly and upwardly towards the respective inner heating walls to form open air passages diminishing in area from their lower to their upper ends and into the wider lower ends of which air to be heated enters, a heating source confined between the end plates and the said inner walls, and an outlet at the top of the furnace for the products of combustion.

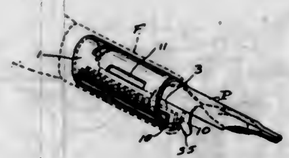
1,683,029. WHEELED CARRYING CASE. NATHAN FANGER, New York, N. Y. Filed July 22, 1927. Serial No. 207,650. 3 Claims. (Cl. 280—36.)



1. A carrying case comprising a receptacle having a foldable bottom, axles fixed to one side of the bottom, axles movably connected to the opposite side of the bottom, wheels on all of said axles and means on the fixed axles for engaging the movable axles to prevent collapsing of said bottom.

1,683,030. PEN CLAMP AND RESERVOIR. ROSS F. GEORGE, Seattle, Wash. Filed July 15, 1924. Serial No. 726,128. 9 Claims. (Cl. 120—101.)

1. A device for securing a pen in a pen holder having a terminal ferrule, comprising a pivot base adapted to snugly fit within the ferrule and having pen supporting ledges adapted to engage the side edges of the pen shank,



and a cam pivoted upon said pivot base and adapted to engage the pen shank between its side edges to clamp it in place.

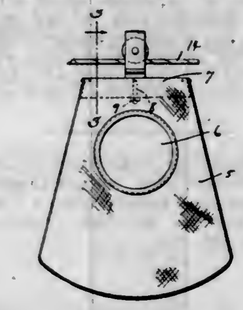
1,683,031. OIL AND GAS WELL SAND TESTER. WILLIAM O. HARRIS, Oklahoma City, Okla. Filed Dec. 21, 1927. Serial No. 241,552. 3 Claims. (Cl. 166—1.)



1. A device of the class described for testing the sands of oil and gas wells, comprising means for corking up the hole adjacent its lower end, a perforated casing having its lower end securely capped, its upper end being adapted to be securely fastened to the lower end of said corking means, a reduced nipple valve being seated between the lower end of said corking means and the upper end of said perforated casing, its smaller end extending downwardly and being adapted to be normally closed by a breakable cap for preventing the flow of liquid therethrough, a gasket ring member and an open ended capsheath for holding said breakable cap in place, plunger means for breaking said breakable cap, a ball valve means for closing the lower neck portion of said nipple valve and shutting off the inflow of liquid thereinto.

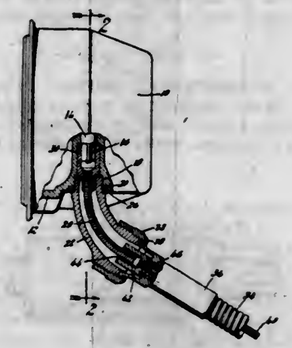
1,683,032. CLOTHESPIN BAG. JOSH HATCHER, Cokedale, Colo., assignor of two-thirds to Leo R. Gottlieb, Cokedale, Colo. Filed May 28, 1927. Serial No. 195,020. 1 Claim. (Cl. 68—11.)

In a device of the class described, a bag of flexible material having an opening formed in one side near the upper edge thereof, a block forming a closure for the top of the bag, a bolt extending through said block, a vertically disposed hanger extending upwardly from said bolt and connected thereto and comprising a strip of material formed substantially into a loop having a restricted opening adjacent its lower end, a spring pressed finger formed on the free end of said strip and movable into and out



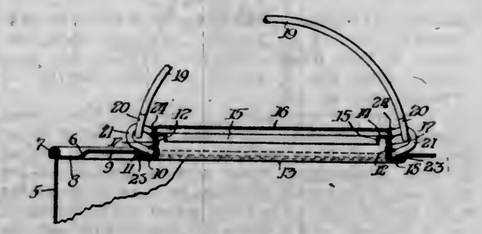
of closing position with respect to said opening in said loop, and a pulley wheel rotatably mounted within the loop.

1,683,033. SPEEDOMETER-DRIVE ADAPTER. RALPH OLAF HELGEBY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed Mar. 21, 1927. Serial No. 177,164. 3 Claims. (Cl. 64—30.)



1. An instrument drive comprising, in combination, a measuring instrument, a short flexible shaft connected with said instrument for the purpose of driving the latter, a curved housing for said shaft secured to said measuring instrument, a driving shaft held in driving engagement with said flexible shaft, and a second housing encasing the driving shaft and secured to said first named housing.

1,683,034. CAN CLOSURE AND SEALING MEANS. WILLIAM HORLICK, Jr., Racine, Wis. Filed Apr. 3, 1926. Serial No. 99,543. 3 Claims. (Cl. 220—56.)



1. A can having a lateral wall and a top attached thereto and having an annular depression immediately adjacent the lateral portion, an annular raised portion in-

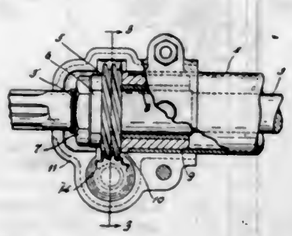
wardly thereof with an inwardly sloping inner portion, an annular depressed portion inwardly of the raised portion with its outer portion defined by the inwardly sloping inner portion of the annular raised portion, and a neck projecting upwardly from the last mentioned depressed portion, and a closure engaged with said neck portion and having an outward extension at its bottom edge seated in the last-named depression below the annular raised portion and adapted to receive sealing means thereover.

1,683,035. METHOD OF MAKING DRAG LINKS. VICTOR HUGHES, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,380. 2 Claims. (Cl. 29—152.)



1. The method of forming a tubular drag link from an enlogated piece of flat metal stock comprising rolling said flat stock into tubular form so that the longitudinal seam at one end of the tube lies at ninety degrees to the seam at the opposite end of the tube, and then deforming the metal at the ends of said tube to form enlarged socket portions with bolt lugs extending laterally therefrom.

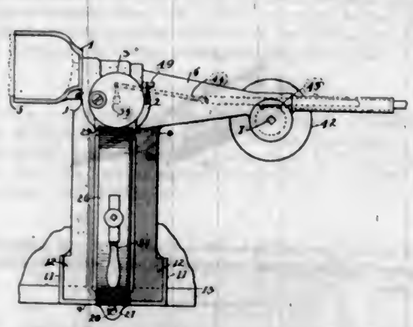
1,683,036. SPEEDOMETER DRIVE. VICTOR HUGHES, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 29, 1926. Serial No. 112,628. 4 Claims. (Cl. 74—7.)



1. Speedometer actuating means on the transmission shaft of an automobile, including a helical worm gear having a lateral extension with flat sides to permit engagement of an adjusting wrench, screw threads on the interior of the gear for adjustable engagement with a screw threaded portion of the shaft, and a lock nut on the shaft for maintaining the gear in its adjusted position, a second gear meshing with the worm gear, and a distantly located indicator connected to the second gear.

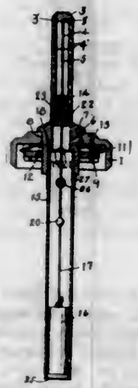
1,683,037. CLOTHES WASHING AND WRINGING MACHINE. MERLIN M. JACKSON, San Jose, Calif., assignor to Fred Hamann and Glen I. Lang, San Jose, Calif. Filed Feb. 8, 1927. Serial No. 166,712. 4 Claims. (Cl. 68—32.)

1. In a wringer mechanism, a supporting base having a horizontal part and a part extending upwardly therefrom, a wringer frame mounted on the horizontal part of the base, intermeshing means between one end of the frame and the upwardly extending part, an apertured lug on the opposite end of the frame seated on the horizontal part of the base, and a single bolt extended through the aperture in the lug and into said horizontal part of the base to hold said last named end of the frame onto the horizontal part of the base and to also hold the first named end of the frame in intermeshing position whereby upon removal of said single bolt the frame may be disengaged from the base.



3. In a wringer mechanism, a base for supporting a wringer frame having downwardly divergent parts formed to seat on a partitioned tray or the like, webs transversely connecting said parts, threaded rods secured at their ends to the divergent parts and extending beneath the webs in spaced parallel relation thereto, a pair of clamps slidable on each rod and formed to engage opposite sides of the partition and the web, and a follower nut for each of the clamps.

1,683,038. RADIATOR CAP. WILLIAM B. JARVIS, Grand Rapids, Mich. Filed July 12, 1923. Serial No. 651,123. 6 Claims. (Cl. 220—24.)

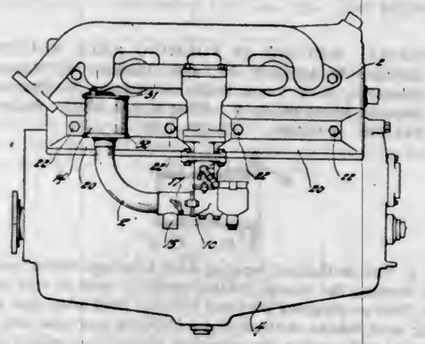


1. The combination with a radiator cap having an opening therein, of a head member provided with a shouldered shank disposed through said opening in said cap and externally threaded, a nut threaded upon said shank, said nut being also externally threaded to engage the threads in the neck of a radiator and having a central recess with radial slots in its upper side, and a spring washer with outwardly and downwardly projecting arms disposed in said recess and slots and adapted to be clamped between said nut and cap with the arms projecting beyond the periphery of the nut to engage the top of a radiator neck.

1,683,039. ENGINE. ROBERT K. JACK, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 25, 1926. Serial No. 118,513. 8 Claims. (Cl. 123—119.)

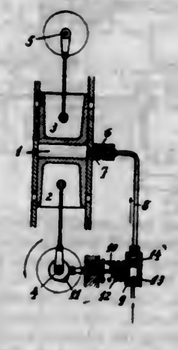
1. An internal combustion engine having a carburetor and a crankcase, said crankcase having an air admission

opening, a valve chamber in communication with the crankcase, means for connection said valve chamber with the carburetor to supply air to the latter, and an oil separator



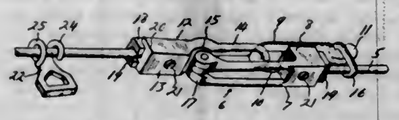
interposed in said means and communicating with said valve compartment for receiving air therefrom and returning oil thereto.

1,683,040. WORKING OIL ENGINE. HUGO JUNKERS, Dessau, Germany. Filed Nov. 17, 1921, Serial No. 515,983, and in Germany Dec. 6, 1920. 7 Claims. (Cl. 123—27.)



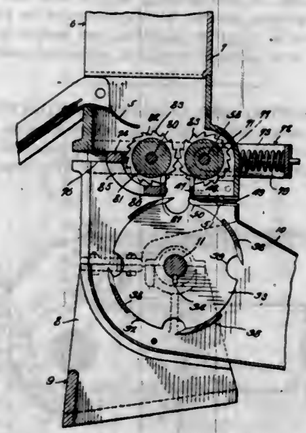
1. The method of operating oil engines of the solid injection type which consists in compressing air in the working cylinder to ignition temperature of the fuel, pumping liquid fuel in attenuated condition directly into the compressed air in substantially constant timed relation to the commencement of the working stroke of the piston so as to ignite said fuel, and regulating the period of combustion exclusively by means of the fuel delivery pump.

1,683,041. FASTENER FOR SAFETY CALK WEBS. MACK I. KARN, Pontiac, Mich. Filed Apr. 9, 1928. Serial No. 268,651. 8 Claims. (Cl. 24—69.)



1. In a fastener for side cables of anti-skid devices, a body member secured to one end of a cable, a lever pivoted to said body and provided with a hook portion facing toward said body member and adapted to be positioned approximately midway of the body and lever when the lever is in closed position, a link member secured to the other end of the cable and adapted to be slipped over the end of the lever for engagement with the hook portion thereof, and means carried by the cable and engageable with the outer end of the lever for retaining the latter in closed position against the pull of said link member.

1,683,042. CORN CUTTER. ABNER H. KROGAN, Stanley, Wis. Filed Jan. 25, 1926. Serial No. 83,708. 5 Claims. (Cl. 146—120.)



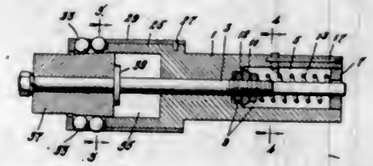
1. In a device of the class described, a casing having a guide slot, a stud on the casing, a first feed roll journaled in the casing, a frame including side bars and end bars, one end bar being slidably mounted in the guide slot, and the other end bar being slidably mounted on the stud, a second feed roll journaled on the side bars, a spring cooperating with the casing and with the last-specified end bar to slide the frame and to vary the distance between the feed rolls, the spring being disposed about the stud, means for driving the rolls, and cutting mechanism whereon the rolls discharge.

1,683,043. PLANT PROTECTOR. ROBERT A. MILLER, Pekin, Ill. Filed Feb. 28, 1927. Serial No. 171,429. 2 Claims. (Cl. 47—28.)



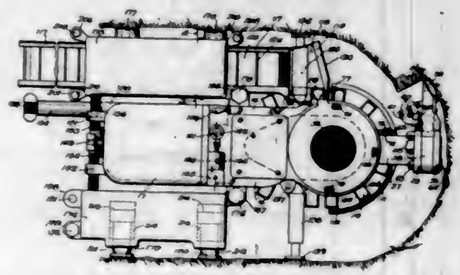
1. In a plant protector, a plurality of rod members, means for connecting same at their upper ends in a manner to permit collapse thereof to a position where they lie adjacent each other, comprising an enlarged eye portion for one of the rods and smaller eye portions for the adjacent rods, said portions being adapted to engage the first named enlarged eye portion, and a flexible detachable covering for the rods adapted to fold tightly about the rod members when in their collapsed position.

1,683,044. BURNISHING TOOL. FRED D. MONGEAU, Dearborn, Mich. Filed May 28, 1926. Serial No. 112,319. 11 Claims. (Cl. 29—90.)



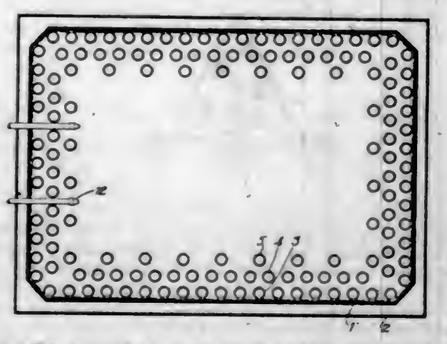
1. A burnishing tool comprising a tool member having radial openings, burnishing members variably projectable in said openings, means movably within said tool to project said burnishing means, yieldable means to hold said movable means in operative position, and means to engage and hold the said movable means in retracted position.

1,683,045. MINING AND LOADING APPARATUS. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Jan. 10, 1923. Serial No. 611,711. 41 Claims. (Cl. 262—5.)



1. In a mining machine, the combination with dislodging mechanism adapted to be held in continuous engagement with the coal at a mine wall for continuous forward movement over a predetermined path of travel, means for supporting said dislodging mechanism for such movement, means for effecting the operation of said dislodging mechanism to dislodge coal from such path, and multiple wall jack mechanism comprising a supplemental frame pivoted to one side of the mining machine and having wall engaging shoes distributed along said supplemental frame.

1,683,046. BOILER. THOMAS E. MURRAY, Brooklyn, N. Y. Filed July 1, 1925. Serial No. 40,746. 1 Claim. (Cl. 122—235.)



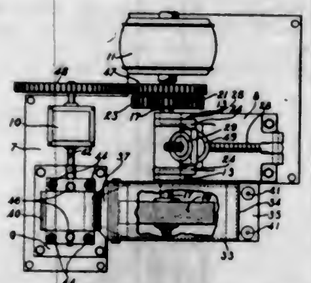
A boiler adapted to generate steam at high pressure having an outer wall and having an inner wall comprising a multiplicity of tubular members of substantially the same diameter in rows at different distances from the outer wall, with the members of the innermost row spaced farther apart than those of the next row so as to permit greater surface exposure of the latter to the radiant heat of the burning fuel.

1,683,047. METHOD OF FORMING AXLE HOUSINGS. THOMAS E. MURRAY, Jr., and HERBERT H. WILLIAMS, Brooklyn, N. Y.; said Williams assignor to Thomas E. Murray, Brooklyn, N. Y. Filed Mar. 1, 1927. Serial No. 171,756. 5 Claims. (Cl. 29—153.)



1. The method of forming axle housings which consists in forming flat blanks, folding back the ends of said blanks to form overlapping portions of extra thickness, then bending said blanks with their overlapping portions into segments and uniting the segments along longitudinal edges.

1,683,048. DOUBLE-WHEEL GRINDER. EDWARD J. PAQUE, Cincinnati, Ohio, assignor to The Pollak Steel Company, Carthage, Ohio, a Corporation of Ohio. Filed July 29, 1925. Serial No. 46,909. 6 Claims. (Cl. 51—80.)



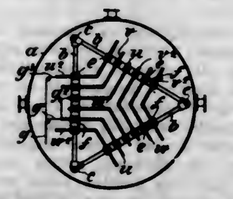
1. In a grinding and polishing device the combination with a pivotally mounted housing member, of spindles rotatably mounted adjacent the opposite ends of the housing, abrasive wheels fixedly mounted on the spindles, guide means disposed in horisontal alignment with the pivotal mounting of the housing and on opposite sides thereof, and means for positioning the housing about its pivotal mounting whereby the peripheries of the abrasive wheels may be moved toward and away from the plane in which the guide means and housing mounting are disposed.

1,683,049. CLOTHES CLIP. LESTER H. PENLEY, Portland, Me. Filed Mar. 23, 1928. Serial No. 264,261. 3 Claims. (Cl. 24—137.)



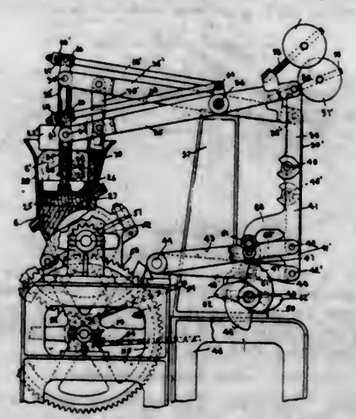
1. A clothes-clip comprising in combination, two clothes-gripping jaws, a shoulder projecting from one side, near the upper end, of one of said jaws and adapted to directly support the weight of said clip when suspended on a clothes-line, means detachably secured to said jaw adapted to yieldingly hold the clothes-line beneath said shoulder, and means to hold said yielding means against transverse and longitudinal displacement from said jaw.

1,683,050. ELECTRIC RESISTANCE FOR ELECTRICALLY-HEATED BOILERS. WILHELM PENZOLD, Hanover, Germany, assignor to the Firm Widerstand Aktiengesellschaft für Elektro-Wärme-Technik, Hanover, Germany. Filed Nov. 10, 1926, Serial No. 147,584, and in Germany Nov. 25, 1925. 4 Claims. (Cl. 219—40.)



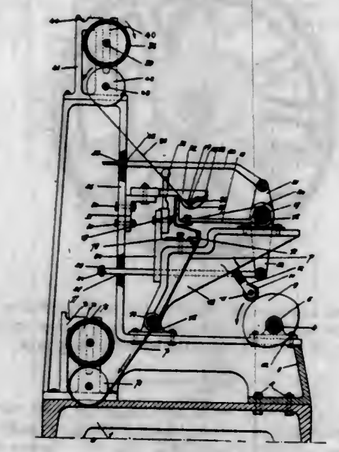
1. In an electrode assembly adapted for immersion in a conducting liquid, in combination, a plurality of electrode groups assembled in stellate formation, each electrode group including a plurality of spaced plates each having angularly disposed branches such that the branches of plates of adjacent groups are substantially parallel to each other and means to connect adjacent plates to different terminals of a source of current.

1,683,051. KNEADING MACHINE. ERLAND F. PETERSON, Everett, Mass., assignor to The Goudey Gum Company, Boston, Mass. Filed Mar. 27, 1926. Serial No. 97,913. 10 Claims. (Cl. 107—4.)



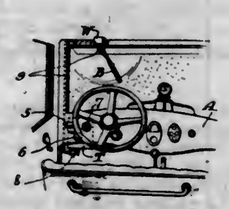
10. In a kneading machine, the combination of a chamber provided with an inlet hopper and an outlet a kneading device operating within the chamber; a plunger operating within the hopper for the purpose of forcing plastic material into the kneading device; a fulcrumed lever to which the plunger is swiveled; means for operating the kneading device for the purpose of kneading plastic material supplied thereto by the operation of the plunger, and thereafter expelling it from the chamber outlet; coordinated means for rocking the lever on its fulcrum for the purpose set forth; and means for controlling the swing of the plunger on its swivel connection as it is operated by the fulcrumed lever.

1,683,052. LOOM FOR MANUFACTURING NONRAVELING FABRICS. FERNAND PHILY, Pau, France. Original application filed Nov. 10, 1925, Serial No. 68,080, and in France Nov. 20, 1924. Divided and this application filed Dec. 31, 1926. Serial No. 158,201. 5 Claims. (Cl. 28—1.)



1. In a loom, the combination with stationary guides to hold the warp threads in the form of closed loops, of means to insert weft threads through the loops to bind the warp threads together, means to draw the loops off the yarn guides onto the enclosed weft threads, and an oscillatory tension member moving in a semi circular path about the guides to manipulate threads in said guides to form another series of warp loops.

1,683,053. WINDSHIELD WIPER. CARL C. PISCIOTTA, Highland Park, N. J. Filed Feb. 15, 1927. Serial No. 168,462. 3 Claims. (Cl. 15—255.)

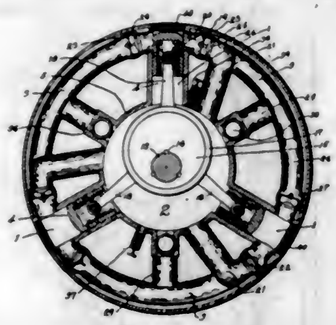


1. A wiper arm for windshield cleaners, comprising a hollow backing, an absorbent wiper strip having one edge embraced by the hollow backing, a distributor pipe within said backing, and a flexible conduit for conducting fluid to said distributor pipe.

1,683,054. HYDRAULIC OR VACUUM CLUTCH. LEMMA J. ROOT, Seattle, Wash. Filed Sept. 26, 1923. Serial No. 664,982. 3 Claims. (Cl. 192—60.)

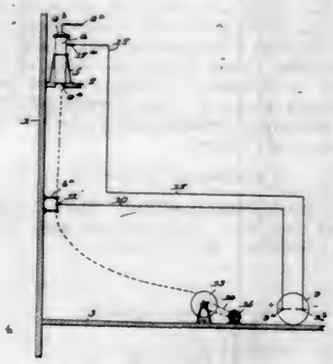
3. In a holding device, a plurality of radially disposed cylinders, a drum shaped casing for supporting the said cylinders, pistons in the said cylinders, an eccentric in the said casing, means for individually operating the said pistons by the said eccentric, means for connecting the outer ends of the said cylinders to a chamber at the center of the said casing, check valves in the said connecting means which are normally held closed by the rotary motion of the

said casing, a peripheral chamber connecting the outer ends of the said cylinders, check valves in the said peripheral chamber also held closed by the rotary motion of the cas-



ing, suitable connections between the said peripheral chamber and the said central chamber, and valves operatable from a remote point in the said latter connections.

1,683,055. PROCESS AND APPARATUS FOR PRODUCING FILAMENTS. JOHN ANDRÉ ROUX, Tenafly, N. J. Filed Oct. 6, 1921, Serial No. 505,953. Renewed Nov. 18, 1927. 50 Claims. (Cl. 18—8.)



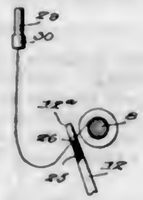
1. In apparatus for producing filaments, a spinneret tube having a discharge orifice, a collecting reel, a polarizer member located between said orifice and said reel, and on a level below the level of said discharge orifice and spaced sufficiently distant therefrom to effect a drying action during the travel of a filament from the discharge orifice to the region of said polarizer, and a source of electricity having one pole electrically connected to said polarizer member and the other pole electrically connected to said tube.

8. In apparatus for producing filaments, a polarizer member comprising a tubular frame mounted below a spinneret tube and comprising sections of tubing with spherically shaped metal members at the adjacent ends.

13. In apparatus for producing filaments, a spinneret tube having a discharge orifice, and a three sided tubular polarizer frame mounted below said spinneret tube.

46. The process of producing filaments which comprises expressing material in filament form from a discharge orifice, leading said filament downward and past a charged polarizer member and through the electrostatic field set up thereby, effecting a substantial drying of the filament in the period of travel from said discharge orifice to the region of said polarizer, and collecting said dried filament, said polarizer member being located along the path of travel of said filament and between said orifice and the point of collection of said dried filament.

1,683,056. PROCESS AND APPARATUS FOR PRODUCING FILAMENTS. JOHN ANDRÉ ROUX, Tenafly, N. J. Filed Aug. 1, 1923. Serial No. 655,133. Renewed May 28, 1928. 41 Claims. (Cl. 18—8.)

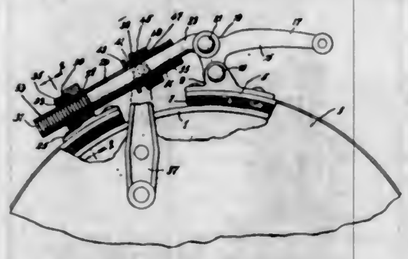


1. The process of producing filaments which comprises expressing material in filament form from a discharge orifice, leading said filament from said discharge orifice past a charged polarizer member spaced from said orifice and through the electrostatic field set up thereby, and effecting substantial reduction in the size of the filament and a substantial drying of the same in the period of travel between the discharge orifice and the polarizer member, said polarizer member being located along the path of travel of said filament and between said orifice and the point of collection of said dried filament.

22. Apparatus for producing filaments comprising a spinneret member having a discharge orifice, a filament receiving member, a charged polarizer guide member, and means for varying the position of said guide member with respect to said receiving member.

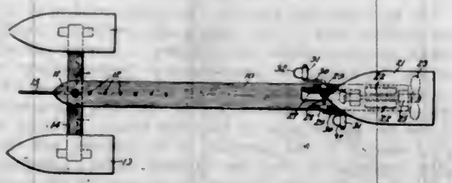
26. In a machine for producing and winding filaments, a U-shaped guide member having a charged polarizer plate in the curve thereof.

1,683,057. BRAKE ADJUSTMENT. JOHN E. SCESE, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 12, 1926. Serial No. 121,876. 10 Claims. (Cl. 188—196.)



1. In a band brake, a drum, a contracting band, a lever pivoted to one end of the band, a rod connected to said lever for applying the opposite end of the band to the drum, a plurality of automatic slack adjustment devices associated with said rod.

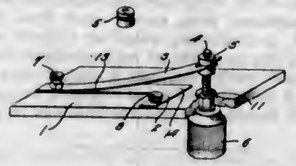
1,683,058. AQUATIC AMUSEMENT DEVICE. HENRY UBERTO, New York, N. Y. Filed June 27, 1927. Serial No. 201,710. 2 Claims. (Cl. 9—18.)



1. An aquatic amusement device, including a flat elongated member, a cross arm turnably carried by the forward end of said member, buoyant elements at the opposite

ends of the cross arm, a buoyant element at the rear of said member, the latter buoyant element being spaced relatively above the forward buoyant element whereby to dispose the device at an upward and forward inclination beneath the surface of the water, propulsion means at the rear end of the device having foot-operated pedals, a rudder carried by the cross arm and turnable therewith, and means for turnably connecting the cross arm and forward buoyant elements at longitudinally spaced points with respect to said member, whereby to compensate for variation in the heights of the users.

1,683,059. RESISTOR. HARRY R. VAN DEVENTER, New York, N. Y., assignor to Dubilier Condenser Corporation, a Corporation of Delaware. Original application filed Dec. 1, 1922, Serial No. 604,395. Divided and this application filed Nov. 1, 1923. Serial No. 672,161. 4 Claims. (Cl. 201—55.)



4. An electrical device comprising a base, a fixed impedance element thereon, a resilient, movable conducting element fastened at a predetermined point to the fixed element but normally divergent with respect to said fixed element away from said point, the conducting element having a portion removed at an end away from the predetermined point, a member having grooves which engage the conducting element at the place where the said portion was removed, and a means for moving the grooved member in such manner that the movable conducting element may be progressively moved toward and away from the fixed element to vary the impedance of the device.

1,683,060. RESISTANCE DEVICE AND METHOD OF MAKING SAME. CHARLES E. VAWTER, Philadelphia, Pa., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 18, 1924. Serial No. 738,422. 10 Claims. (Cl. 201—76.)

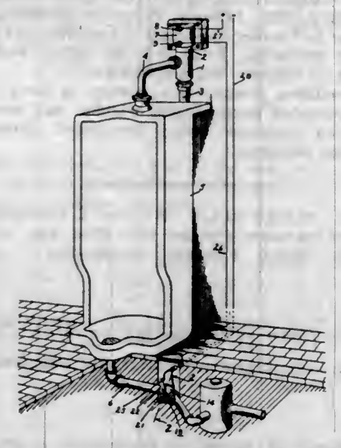


2. A resistance device comprising a casing in the form of an open-ended tube of porous insulating material, electrically conductive caps engaging the ends of said tube, a conductive substance in said tube comprising manganese dioxide mixed with carbon capable of offering a constant resistance to the passage of current flowing therethrough, the device and contents being thoroughly dried, and thoroughly impregnated with a waterproof and insulating material.

1,683,061. METHOD OF TREATING AND FORMING ARTIFICIAL FUELS. HERBERT E. WETHERBEE, Cleveland, Ohio, assignor of one-third to Richard F. Grant and one-third to Howard M. Hanna, Cleveland, Ohio. Filed Oct. 1, 1925. Serial No. 59,963. 7 Claims. (Cl. 44—25.)

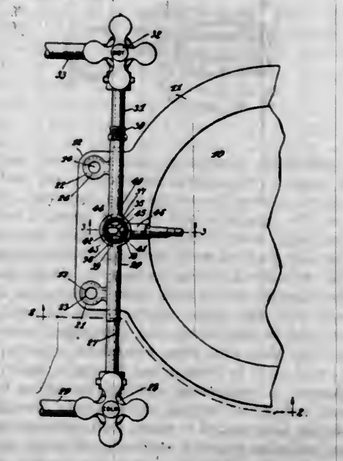
1. The herein described method for coalescing irregular small sizes of anthracite and the like, which consists in treating a mass thereof in moistened condition with a suitable filming oil to displace the water and thereafter effecting the drying of said oil to insure its adherent action, substantially as set forth.

1,683,062. AUTOMATIC FLUSHING VALVE. WESTON FRANCIS BRIGHT, Longmeadow, Mass., assignor to Bridgeport Brass Company, Bridgeport, Conn. Filed May 8, 1925. Serial No. 28,968. 18 Claims. (Cl. 4—100.)



1. Regulating apparatus including a source of fluid, a receptacle into which waste is first introduced and which said fluid is intended to flush, means for controlling the flow of said fluid including an electric circuit, normally non-bridged electrodes for said circuit which are situated out of the path of fluid discharged from said receptacle, and means for deflecting waste fluid discharging from said receptacle from said path directly and unadulterated to said electrodes to bridge the same and and close the circuit to initiate the action of the controlling means when the character of the waste is such that it is electrically conductive.

1,683,063. WATER-CLOSET FITTING. CESARE C. CAMPUS, Santa Monica, Calif. Filed July 29, 1926, Serial No. 125,627. Renewed July 23, 1927. 12 Claims. (Cl. 4—7.)



1. In an apparatus of the class described, a closet bowl having the upper rear portion thereof constructed for the attachment of a closet bowl seat thereto, a tubular

supply fitting constructed to lie on that portion of the bowl adapted for the attachment of the closet bowl seat, and a nozzle member extending from the said tubular supply fitting in a position immediately below the rear portion of the closet bowl seat and adapted to direct a stream of water in a centrally disposed line from the rear toward the front of the closet bowl.

1,683,064. ELECTRIC CONDUCTOR AND PROCESS OF MAKING SAME. JAMES V. CAPICOTTO, Brooklyn, N. Y., assignor to Dubilier Condenser Corporation, a Corporation of Delaware. Filed Feb. 27, 1924. Serial No. 695,591. 4 Claims. (Cl. 250—27.5.)

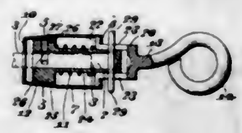
1. A conductor comprising a mixture of finely divided and intermingled platinum and iridium, and containing barium and strontium evenly distributed through the mass of the conductor.

1,683,065. PLUMB RULE. WILLIAM J. CARPENTER and FRANCIS SHANLEY, Chicago, Ill. Filed Aug. 14, 1925. Serial No. 50,156. 6 Claims. (Cl. 33—214.)



1. A plumb rule having, in combination, a rectangular metal frame comprising spaced parallel straight edges having longitudinal guide grooves therein on their adjacent sides, an apertured slide adjustable within said frame in said grooves, said slide carrying four bubble tubes parallel to the sides of said frame, said frame having end portions adapted to house said slide, a spring pressed plunger mounted on said slide bearing against said frame to hold the slide in its adjusted position, and means operable to release said plunger.

1,683,066. ELECTRICAL CONNECTER. SAMUEL COHEN, Brooklyn, N. Y., assignor to Grace A. Barron, New York, N. Y. Filed July 31, 1922. Serial No. 578,540. 2 Claims. (Cl. 173—328.)



1. An electrical connecter comprising in combination a hollow stem, a connecting member on one end of said stem, a head having the shape of a frustrum of a cone formed on the opposite end of said stem, a cylindrical casing enclosing said stem, spring means interposed between one end wall of said casing and the head of said stem, said cylindrical casing having the walls thereof adjacent the opposite end of said cylindrical casing shaped to correspond with the shape of the head of said stem, a transverse slot in said head, and a gripping member positioned in said slot, said stem extending opposite the end on which said head is formed and having a guide pin positioned therein, a conducting member extending from said cylindrical casing and having slots therein through which said guide pin is arranged to move, said guide pin providing means for allowing relative movement between said cylindrical casing and said hollow stem for forcing said gripping member against a conductor inserted in said hollow stem.

1,683,067. GRID-LEAK RESISTANCE. WILLIAM DUBILIER, New York, N. Y., assignor to Dubilier Condenser Corporation, a Corporation of Delaware. Filed May 24, 1924. Serial No. 715,657. 6 Claims. (Cl. 201—63.)

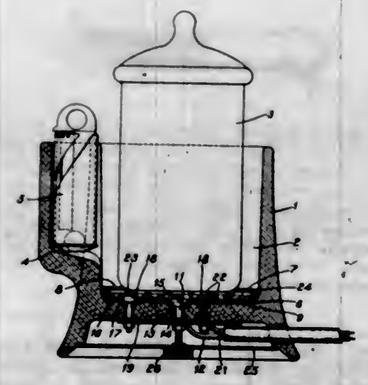


6. In a grid leak, the combination of a high resistance element supported solely at its ends, a sleeve surrounding said element, terminal caps at the ends of said sleeve, conductors joined at their ends to said caps, a non-hygroscopic substance surrounding said sleeve and said caps and the adjacent ends of the conductors imbedding and sealing the same, said substance being spaced apart from the resistance element, an insulating wrapping for said substance, bushings abutting the ends of said substance and giving passage to said conductors, and a casing involving said substance and said wrapping and engaging at its extremities with said bushings to hold the bushings in place.

1,683,068. METHOD OF TREATING DRIED FIGS AND DRIED PRUNES. THOMAS W. W. FORREST, Fresno, Calif., assignor to Sunland Sales Cooperative Association, Fresno, Calif., a Corporation of California. Filed Dec. 27, 1926. Serial No. 157,416. 2 Claims. (Cl. 99—11.)

1. The method of reconditioning packaged dried fruits such as dried figs and dried prunes in which the fruit has become surface sugared through storage conditions, which comprises placing the unopened packages of fruit in a receptacle and applying a heat thereto to maintain a temperature throughout the fruit below 212 degrees F. until the sugary coating has been dissolved and reabsorbed.

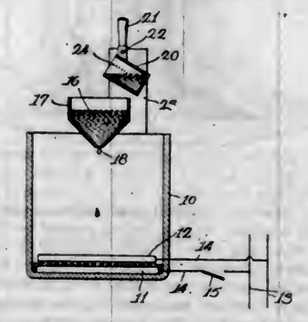
1,683,069. LIQUID-CONDUCTOR HEATER DEVICE. MARSHALL W. HANKS and MAX MASON, Madison, Wis., assignors to Hankscraft Company, a Corporation of Wisconsin. Filed Oct. 1, 1923. Serial No. 665,761. 7 Claims. (Cl. 219—40.)



4. An electric heating apparatus comprising a receptacle for vaporizable liquid having a main chamber containing a pair of superposed and spaced-apart electrodes, the upper electrode having one or more perforations, and

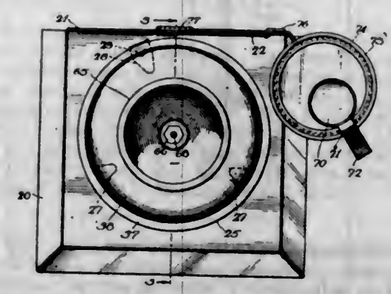
an auxiliary chamber in open communication with said main chamber to receive a liquid-measuring device which automatically discharges its contents into the main chamber when placed in the auxiliary chamber.

1,683,070. LIQUID-CONDUCTOR HEATER AND METHOD OF OPERATING SAME. MARSHALL W. HANKS, Madison, Wis. Filed June 27, 1924. Serial No. 722,670. 6 Claims. (Cl. 219—40.)



4. A liquid conductor heater comprising a heating vessel adapted to hold and retain a liquid conductor, electrodes located in said vessel, an electric circuit for said electrodes, and means for introducing into said vessel at a gradual predetermined rate a measured quantity of liquid conductor adapted to remain in said vessel and establish an electrical connection between said electrodes.

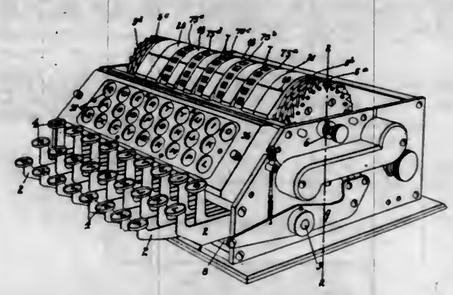
1,683,071. LIQUID-CONDUCTOR HEATER AND METHOD OF OPERATING SAME. MARSHALL W. HANKS and MAX MASON, Madison, Wis., assignors to Hankscraft Company, a Corporation of Wisconsin. Filed Jan. 12, 1925. Serial No. 1,784. 19 Claims. (Cl. 219—40.)



1. A liquid conductor heater in which a measured quantity of liquid is evaporated substantially to dryness, comprising a receptacle provided with a heat treating chamber, and spaced electrodes in said receptacle adapted to make circuit closing contact with said liquid and formed to effect a ready escape from the space between said electrodes of bubbles produced in said liquid by the passage of current therethrough.

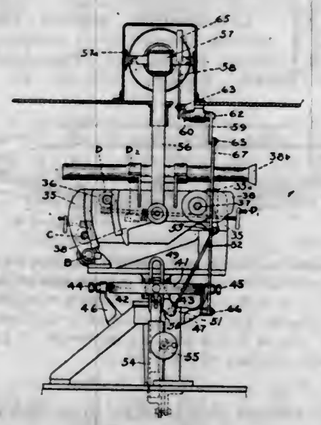
1,683,072. ELECTRIC CODE MACHINE. EDWARD H. HEBERN, Oakland, Calif., assignor, by mesne assignments, to International Code Machine Company, Reno, Nev., a Corporation of Nevada. Filed Nov. 20, 1923, Serial No. 675,898. Renewed May 17, 1927. 57 Claims. (Cl. 35—13.)

1. In a coding and decoding machine, a plurality of code wheels, a plurality of ratchet wheels, means whereby the ratchet wheels are actuated and means operatively connecting each of the ratchet wheels with a correspond-



ing code wheel whereby one of the code and one of the ratchet wheels is actuated only after another ratchet wheel has made a complete revolution.

1,683,073. SIGHTING DEVICE. JAMES BLACKLOCK HENDERSON, Lee, England. Filed July 26, 1919, Serial No. 313,538, and in Great Britain June 29, 1917. 37 Claims. (Cl. 33—49.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



4. The method of correcting for the effect of angular displacement of a gun mounted on an angularly movable platform which consists in establishing a line of sight to an objective, establishing another line of sight at a substantial angle to the first mentioned line of sight, continuously and effectively maintaining the second mentioned line of sight laid on a distant point while the first mentioned line of sight is displaced angularly about the axis of the gun, and utilizing the angular displacement between the platform and the second mentioned line of sight to correctively position the first mentioned line of sight for the effects of such displacement.

14. A sighting device for use with a gun mounted on a rolling platform comprising a sighting telescope, a telescope adapted to be maintained upon a point lying at a substantial angle to said sighting telescope and means continuously actuated by the second named telescope for actuating the sighting telescope whereby errors resulting from displacements of the gun axis due to the movement of the platform may be corrected.

26. In an apparatus of the character described, in combination, a pointer's telescope, a trainer's telescope and a cross-leveler's telescope and means associated with said telescopes whereby they mutually cooperate for correcting the error in the sighting of one or more guns.

31. In an apparatus of the character described, in combination, pointer's sighting means, trainer's sighting

means and cross-leveler's sighting means and means actuated by said cross leveler's means for overcoming the error introduced in the training of the guns due to inclination of the gun trunnions.

1,683,074. BAG FASTENER. WILLIAM C. HIERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed May 29, 1926. Serial No. 112,525. 2 Claims. (Cl. 292—228.)



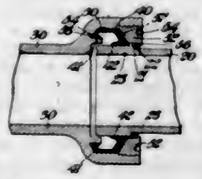
1. In a bag the combination with the frame members thereof in which one member has an opening and a torsional spring adjacently below the opening, the other member having a projection opposite the opening, of an elongated block disposed longitudinally over said member, an H-shaped integral blank doubled upon itself and fastened to said block, said blank presenting a loop to extend through the mentioned opening and receive said spring and having an opening to engage said projection when the frame members are closed.

1,683,075. AUTOMOBILE SPRING SNUBBER. CHARLES H. HUGHES, Denver, Colo., assignor of one-half to H. C. Denny, Denver, Colo. Filed July 5, 1927. Serial No. 203,647. 2 Claims. (Cl. 267—48.)



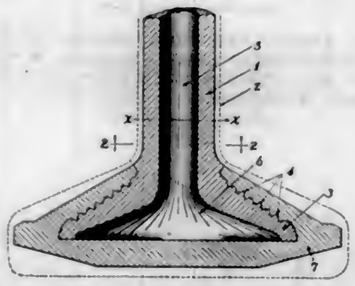
1. A vehicle spring of the multiple leaf type comprising an additional leaf secured to the convex side of the spring, the free end of said leaf being connected with the master leaf by a shackle and a resilient block interposed between the upper side of leaf 9 and the underside of the spring, intermediate the ends of said leaf.

1,683,076. SPIGOT AND SOCKET PIPE JOINT. PERCY GRAHAM JOHNSON and HAROLD RAYMOND MORGAN, London, England, assignors to Victaulic Company, Limited, London, England. Filed May 31, 1924, Serial No. 717,035, and in Great Britain Jan. 22, 1924. 6 Claims. (Cl. 285—163.)



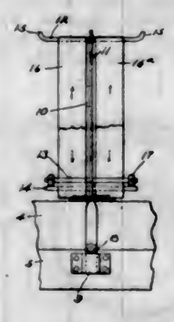
1. A spigot and socket joint comprising, a spigot, a socket member having a packing ring receiving recess of which the outer end is closed by an externally screwed packing gland screwing into the outer end of the packing receiving recess, a hollow fluid-sealed packing ring of flexible material having a circumferential opening communicating with the fluid passing through the joint, one of the free edges of the packing ring bearing on the spigot and extending from a side of the packing ring bearing on the inner side of the screwed packing gland member while the other free edge of the packing ring bears on a side of the recess in the socket member.

1,683,077. VALVE FOR INTERNAL-COMBUSTION ENGINES. CHARLES SHERIDAN JOYCE, Brooklyn, N. Y. Fi'ed Apr. 2, 1925. Serial No. 20,229. 6 Claims. (Cl. 123—188.)



1. In a valve for internal combustion engines, the combination of a hollow stem, a hollow conical portion integral with the stem and substantially conforming to the shape of the completed valve, the thickness of the metal of the hollow conical portion decreasing toward the base of the cone, a valve head of heat resisting metal cast over the hollow conical portion, the conical portion of the valve head extending substantially to the juncture between the conical portion of the stem and the cylindrical portion thereof.

1,683,078. SEWING-MACHINE ATTACHMENT. ARTHUR G. KAY, Wellesley, Mass., assignor to Powdrell & Alexander, Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 27, 1926. Serial No. 125,181. 2 Claims. (Cl. 112—152.)

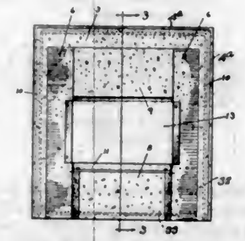


1. In combination with a sewing machine having two needles, means for feeding a strip of fabric to each of said needles to be hemmed, a single support for tensioning bars in the plane bisecting the space between the needles, and a plurality of substantially parallel tensioning bars arranged substantially horizontally on and symmetrically with respect to said support, the uppermost of said bars being spaced a substantial distance from the lowermost bar, each bar guiding both strips of fabric which pass over the uppermost bar and under the lowermost bar and thence to the respective needles, said support being positioned intermediate the ends of said tensioning bars so that the strips of fabric will pass one on either side thereof.

1,683,079. REMOVABLE FIREPLACE. JOHN KERTES, Pittsburgh, Pa. Filed Apr. 5, 1927. Serial No. 181,064. 4 Claims. (Cl. 126—120.)

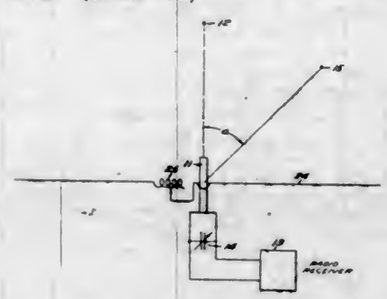
2. In a fireplace the combination of a structure comprising side walls and a back wall having an upper wall portion, and a lower back wall portion spaced vertically

from the upper wall portion and offset horizontally from the plane thereof; a backing member in the interval between the edges of the upper and lower wall portions, a



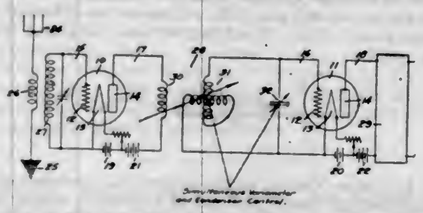
member secured to the lower back wall portion arranged to support the backing member, and an apron having a tile facing supported by said member and extending outwardly and downwardly therefrom.

1,683,080. RADIO RECEIVING SYSTEM. FREDERICK A. KOLSTER, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed June 2, 1924. Serial No. 717,293. 5 Claims. (Cl. 250—11.)



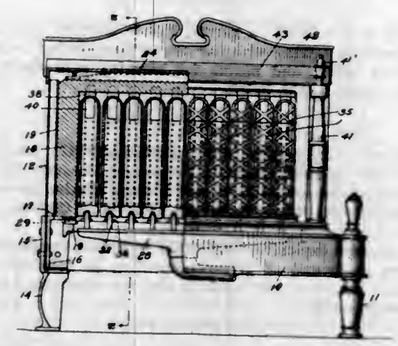
4. In a system for receiving electromagnetic radiations, a loop antenna having directional characteristics, means for selectively tuning said antenna, a detector circuit electrically associated with said antenna, and means for altering the wave front of radio energy which is received from a direction other than perpendicular to the axis of said loop, said means comprising an elongated conductor relatively greater in length than the diameter of said loop and arranged at an angle to the plane of said loop.

1,683,081. VARIABLE-COUPLING TRANSFORMER. FREDERICK A. KOLSTER, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Mar. 23, 1926. Serial No. 96,689. 3 Claims. (Cl. 250—40.)



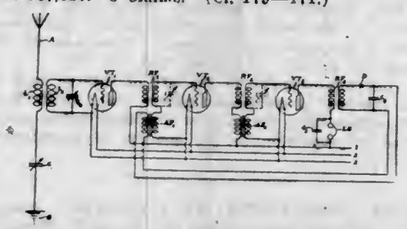
1. A device of the class described comprising a primary inductance, a variometer secondary inductance including a pair of coils relatively rotatable with respect to each other for varying their total inductance between a maximum and minimum, said primary inductance positioned in fixed inductive relation to one of said coils whereby the coupling between the primary and secondary will vary upon variation of said secondary, a variable capacitance shunted across said secondary, and a common control means simultaneously increasing said secondary from a minimum to a maximum inductance upon variation of the capacitance from a minimum to a maximum value without effecting a substantial change in the primary inductance.

1,683,082. HEATER. LINDLEY S. LAWSON, Pittsburgh, Pa., assignor to Lawson Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 10, 1924. Serial No. 742,821. 23 Claims. (Cl. 126—92.)



1. The combination in a gas heater of a fire back, a burner located in front of said fire back, radiants supported in operative relation to said burner and means for supporting said fire back and said burner located at each end thereof.

1,683,083. AMPLIFIER OF ELECTRICAL CURRENTS. EDWARD H. LOFTIN, Washington, D. C., assignor to Edward H. Loftin, trustee. Filed June 22, 1923. Serial No. 647,027. 5 Claims. (Cl. 179—171.)

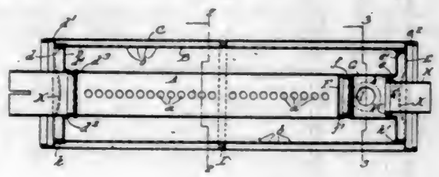


1. A stage of amplification in an amplifier system including a three-electrode vacuum tube, an input circuit having a portion tuned to currents above audibility, means for impressing currents above audibility on said tuned portion, means associated with said input circuit for simultaneously impressing substantially lower frequency currents on said input circuit, an output circuit, means for transferring said currents above audibility from said output circuit, and means for simultaneously transferring said lower frequency currents from said output circuit including a coil in said output circuit so connected as to unmodifiedly offer its natural impedance to the flow of said currents above audibility in said output circuit.

1,683,084. MUFFLER. ROY J. MACKENZIE and LUCIEN L. HAAS, Buffalo, N. Y., assignors to Buffalo Pressed Steel Company, Buffalo, N. Y. Filed Dec. 21, 1925. Serial No. 76,711. 7 Claims. (Cl. 137—160.)

1. In a muffler, the combination of a plurality of shells of different sizes arranged one within another forming a plurality of chambers in which the gases of combustion ex-

pand, said shells being provided with openings through which the gases flow from one chamber to another, two adjacent shells being provided with registering holes and being bent to cause the portions having said holes to be



brought into contact to permit gas to flow through said holes without mixing with the gas in the chamber between said two shells, and means for securing said shells together around said holes.

1,683,085. METHOD OF GENERATING MOTIVE FLUID. HUDSON MAXIM, Hopatcong Borough, N. J.; Lilian Maxim executrix of said Hudson Maxim, deceased. Filed Feb. 23, 1921. Serial No. 447,176. 3 Claims. (Cl. 52—5.)

3. A liquid explosive for driving torpedoes consisting of a nitro compound of glycerine holding in solution gum camphor, acetylene gas, acetone and a combustible non-explosive material.

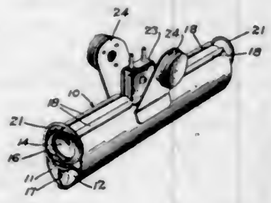
1,683,086. CAST IRON AND THE METHOD OF MAKING SAME. AUGUSTUS F. MEEHAN, Chattanooga, Tenn. Filed June 16, 1927. Serial No. 199,419. 8 Claims. (Cl. 75—49.)

1. That improvement in the art of making cast-iron which consists in adding to gray molten metal a silicide containing an alkaline earth metal, and another graphitizing agent such as nickel.

1,683,087. CAST IRON AND METHOD OF MAKING SAME. AUGUSTUS F. MEEHAN, Chattanooga, Tenn., assignor to Mechanite Metal Corporation, Chattanooga, Tenn., a Corporation of Tennessee. Filed Aug. 27, 1927. Serial No. 215,997. 6 Claims. (Cl. 75—27.)

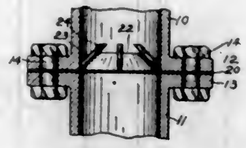
1. That improvement in the art of making cast iron which consists in adding to molten iron, which if cast would contain more than 2% of combined carbon metallic calcium in proportion to the amount of graphitization desired.

1,683,088. PERMANENT-WAVE HEATER. KARL E. MERZ, Oakland, Calif. Filed Oct. 18, 1927. Serial No. 226,842. 9 Claims. (Cl. 132—36.)



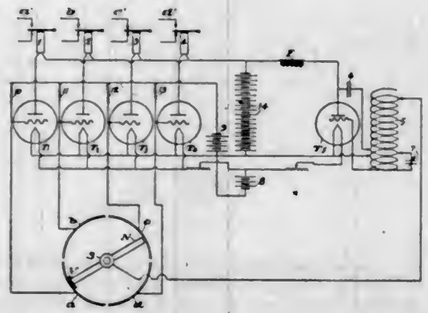
1. A heater of the character described comprising a pair of heater members yieldably held together by spring means, a heating element embraced by said heater members and about which they may pivot, said heating element being adapted to heat the inner surfaces of said heater members, said inner surfaces being recessed to receive a wound strand of hair.

1,683,089. REATOMIZING DEVICE. RAY F. MILLS, Waynesville, Ohio. Filed July 6, 1923. Serial No. 649,927. 3 Claims. (Cl. 48—180.)



1. A reatomizing device, comprising an intake pipe of a hydro-carbon motor, a member to be inserted therein, said member having a portion frustro-conical in form, traversed by a frustro-conical passage through which the gases in the pipe pass; said conical portion being adapted to co-operate with the wall of the pipe in forming an annular basin in which unconsumed fuel flowing down along the wall of the pipe may accumulate; a tube secured to the outer wall of said conical portion, in such a position that one end will be in said basin and the other end in the path of the gas which emerges from the small end of said opening, and means for securing said member in the pipe.

1,683,090. ELECTRICAL SYSTEM. CARLOS B. MIRICK, Washington, D. C. Filed July 10, 1925. Serial No. 42,777. 6 Claims. (Cl. 177—351.)



1. In an electrical indicator system, the combination of a plurality of vacuum tube relays having grid-filament and plate-filament circuits, a plurality of electro-magnetic relays, the coil of each one of which is disposed in the plate-filament circuit of its corresponding vacuum tube, a vacuum tube oscillator and means for coupling the vacuum tube oscillator to each grid of the vacuum tube relays independently of the other relays.

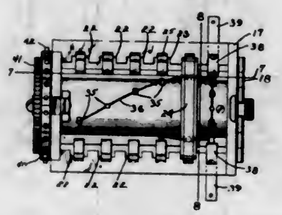
1,683,091. PIEZO-ELECTRIC CRYSTAL HOLDER. CARLOS B. MIRICK, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed June 7, 1927. Serial No. 197,133. 14 Claims. (Cl. 171—327.)



1. In a piezo electric crystal holder, the combination of a frame having grooves recessed in its faces, a crystal and electrodes therefor within the frame, and metallic cover plates inserted within the grooves and having bent up ends, said bent up ends constituting electrical contacts for the electrodes of the crystal.

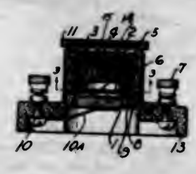
10. In a multiple crystal unit the combination of a cabinet of insulating material having a plurality of double grooves in its inner walls, a plurality of crystal holders having contact surfaces upon their edges inserted within the grooves and means conforming to the shape of a portion of the grooves for establishing electrical contact with the contact surfaces of the crystal holders.

1,683,092. PIEZO-ELECTRIC CRYSTAL HOLDER. CARLOS B. MIRICK, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed June 8, 1927. Serial No. 197,494. 5 Claims. (Cl. 171—327.)



1. In a multiple crystal unit, the combination of a cabinet, electrical terminals upon the cabinet, a plurality of grooves within the cabinet, individual crystal holders within the grooves, and means for making electrical contact between each of the crystal holders and the terminals independently of the other crystal holders.

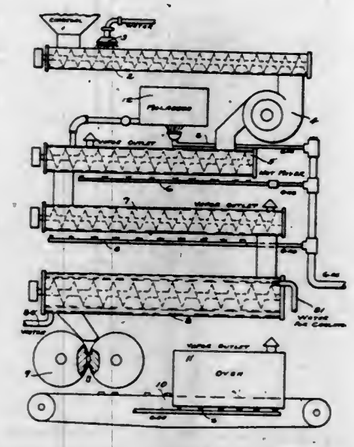
1,683,093. PIEZO-ELECTRIC CRYSTAL APPARATUS. CARLOS B. MIRICK and ALFRED CROSSLEY, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 7, 1927. Serial No. 231,589. 4 Claims. (Cl. 171—327.)



1. A piezo electric crystal holder comprising a cylindrical casing screw threaded on the interior thereof, a metallic plug screw threaded into one end of said casing, a metallic cap screw threaded onto the opposite end of said casing, a piezo electric crystol element carried by the interior surface of the plug in said casing, a contact plate resting on the upper surface of said piezo electric crystal element, and a ring member screw threaded into said casing and controlling the position of said plate with respect to said piezo electric crystal element.

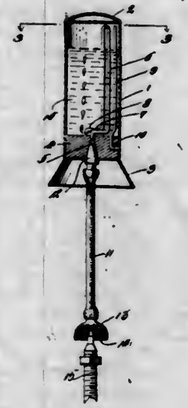
1,683,094. ART OF BRIQUETTING. PAUL C. MULLIGAN, Seattle, Wash., assignor to Luther J. Hull, Isaac M. Foster, and himself. Filed Oct. 4, 1926. Serial No. 139,381. 4 Claims. (Cl. 44—14.)

1. The process of briquetting fuel by the use of a molasses binder which consists in heating the base fuel material, adding thereto and mixing therewith the molasses, continuing heating of the mixture to drive off the water contained in the molasses, but maintaining the temperatures throughout below that required to drive off the volatiles,



cooling the mixture to a briquetting consistency, pressing the mixture, and finally baking the briquettes to carbonize the binder.

1,683,095. VALVE LEAK AND PUNCTURE DETECTOR. ENGRACIO P. OFFEMARIA, Chicago, Ill. Filed Feb. 15, 1927. Serial No. 168,428. 4 Claims. (Cl. 73—51.)



3. In a tire valve leak detector of the character described, the combination with a receptacle having a tube body leading thereinto and adapted to be attached to a tire valve, of a liquid having phosphorescent characteristics contained in the receptacle to indicate in the dark the passage of air bubbles therethrough escaping from the attached tube body.

1,683,096. ROTARY JAR. ROBERT MCDONALD PYLES, Fullerton, Calif. Filed May 2, 1921. Serial No. 466,050. 4 Claims. (Cl. 255—27.)

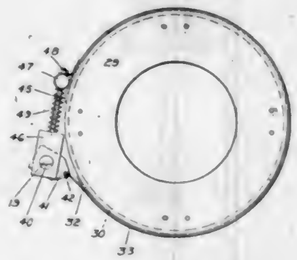
2. In a rotary jar, the combination of a tubular section and a plunger-section within the tubular section, said plunger section having an integral bead on its inner end,

an impact-nut composed of sections disposed on opposite sides of the plunger section, and secured in the end of the tubular section, said plunger section having an annular shoulder at its end remote from said head, to strike and



cooperate with the impact nut, said impact nut having an angular opening and said plunger having an angular body fitting said opening to enable a rotary movement to be imparted from one of the sectionsto the other.

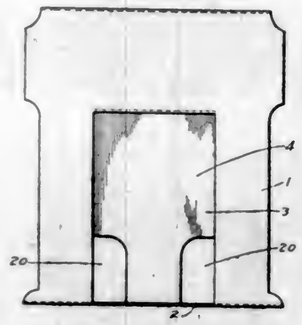
1,683,097. BRAKE FOR MOTOR VEHICLES. JOHN F. RICHARDSON, Pittsburgh, Pa. Filed Apr. 3, 1924. Serial No. 703,964. 3 Claims. (Cl. 188—77.)



1. In a brake mechanism, a brake drum, a brake band embracing the drum, an operating shaft having a half-round cam thereon, a link having a slot therein fitted over said half-round cam, said link being connected with one end of the brake band, whereby a rotative movement of the shaft may effect the movement of the brake band, and a support for the other end of the brake band.

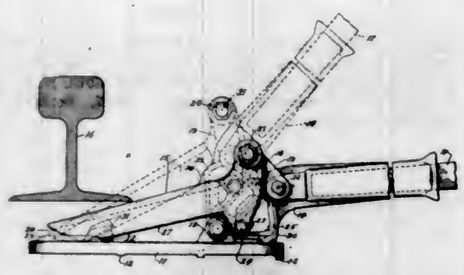
1,683,098. DISPLAY DEVICE. CARL E. RIDGWAY, Seattle, Wash. Filed July 30, 1927. Serial No. 209,532. 2 Claims. (Cl. 211—157.)

2. In a display device, a vertical member having an opening therein, a horizontal member extending rearward from the lower end of the said vertical member forming a base, and a secondary vertical member formed from the said opening and having its lower end articulated to the



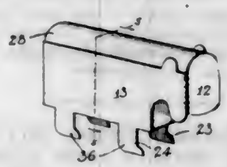
said base and its upper end articulated to the said former vertical member in the upper end of the said opening by a horizontal member.

1,683,099. TRACK LINER. ROBERT ROSTRON, Chicago, Ill., assignor to Crerar, Adams & Co., Chicago, Ill., a Corporation of Illinois. Filed June 27, 1924. Serial No. 722,800. 14 Claims. (Cl. 254—44.)



1. A track liner, comprising a base, an actuating lever pivoted to said base, and a track shifting member connected for actuation by said lever, said lever having a shoulder adapted to contact with said member as the lever approaches its raised position, and said member having a cam portion adapted to be acted upon by said shoulder.

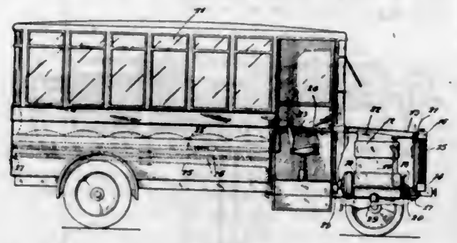
1,683,100. BOX. ALFRED ROZOWSKY, Brooklyn, N. Y. Filed Mar. 21, 1925. Serial No. 17,180. 3 Claims. (Cl. 229—8.)



1. A container composed of a single integral blank comprising sides, back, front, bottom and top closure portions, tabs on the sides, top and bottom portions, said blank

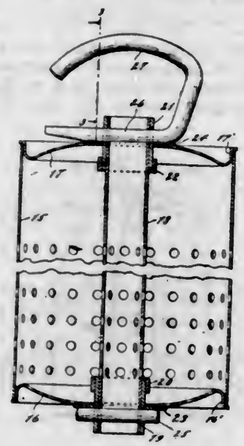
adapted to form a totally enclosed receptacle with an end of reduced section, a foldable flap extending from the bottom portion forming a side and bottom for said reduced end section and supporting members cut from the bottom, the contour of the box and supporting members simulating an animal.

1,683,101. COMBINED ENGINE-COOLING AND CAR-HEATING SYSTEM. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Oct. 31, 1924. Serial No. 746,926. 5 Claims. (Cl. 123—174.)



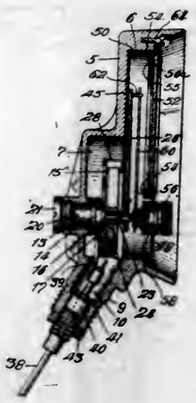
1. An automotive vehicle, including a vehicle body and an internal combustion engine having a closed circuit cooling system designed to circulate water slightly in excess of the maximum evaporative requirements for cooling the engine by the boiling and condensing cycle, said system including an engine jacket and a plurality of cooling circuits supplied therefrom, one being a primary cooling circuit including an exterior air cooled radiator connected to operate as an up-flow condenser with its lower portion only serially included in said circuit so that, in its normal operation, the heat transfer is by the boiling and condensing cycle and the excess water is kept at boiling point; and another cooling circuit including heat radiating means in the body of the vehicle; in combination with a common return and circulating pump for returning excess water and condensate from said circuits to the jacket.

1,683,102. CONTAINER FOR EXTRACTING APPARATUS. JOSEPH F. SANFTLEBEN, New York, N. Y., assignor to Filtrators Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 23, 1926. Serial No. 143,773. 11 Claims. (Cl. 220—55.)



1. A container having a lid and a member extending through the bottom of the container and freely movable therethrough and arranged to press against the interior of the lid to open the same when said member is moved toward the lid.

1,683,103. INDICATING INSTRUMENT. HERMAN SCHLAICH, Long Island City, N. Y. Filed Mar. 4, 1924. Serial No. 696,813. 5 Claims. (Cl. 116—129.)



1. In an instrument, a casing, an indicating mechanism mounted therein having a pointer moving within said casing, a dial mounted in cooperative relation to said pointer, a face-plate removably secured to said casing and provided with a window thru which the dial and pointer are visible, a hand for recording maximum indications of said pointer pivotally mounted on said face-plate and arranged to be moved by said pointer and means projecting through the face plate to the front thereof for moving the maximum hand into engagement with the pointer.

1,683,104. AURO MERCAPTO CARBOXYLIC ACID AND PROCESS OF MAKING SAME. WALTER SCHOELLER, Berlin-Westend, and HANS GEORG ALLARDT, Berlin-Reinickendorf-West, Germany, assignors to the Firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed Feb. 10, 1927, Serial No. 167,350, and in Germany Feb. 17, 1926. 4 Claims. (Cl. 260—11.)

1. As a new product a compound having the general formula X—S·Au, wherein X is a radical of an aliphatic carboxylic compound, the alkali metal salts being soluble in water and having valuable therapeutical properties.

1,683,105. METALLO MERCAPTO COMPOUNDS AND PROCESS OF MAKING SAME. WALTER SCHOELLER, Berlin-Westend, and HANS GEORG ALLARDT, Berlin-Reinickendorf-West, Germany, assignors to the Firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed Feb. 10, 1927, Serial No. 167,351, and in Germany Feb. 17, 1926. 8 Claims. (Cl. 260—11.)

1. As a new product a water-soluble metallo mercapto compound corresponding to the general formula R—S·Me, wherein R is the radicle of a compound containing, besides a sulf-hydryl group, several hydroxyl groups, while Me is a heavy metal.

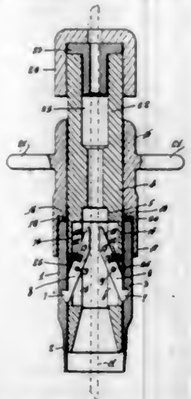
1,683,106. GUN SIGHT. FRED J. SCHRANK, Akron, Ohio. Filed Dec. 31, 1927. Serial No. 243,866. 4 Claims. (Cl. 33—47.)



2. A sight for guns comprising a sight element, and means for mounting said element on a gun barrel, said means comprising an endless loop of flexible, elastic rubber, the opening of which is less in perimeter than the perimeter of the gun barrel, and the cross-sectional diameter of

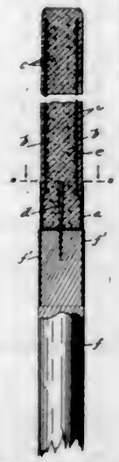
which is such that the loop is adapted to be stretched onto the gun barrel and to be retained thereon by the inherent contractile nature of the rubber.

1,683,107. OIL SAVER. CLAYTON SEVERNS and JOHN N. HICKS, Los Angeles, Calif. Filed Dec. 28, 1927. Serial No. 243,076. 4 Claims. (Cl. 166—14.)



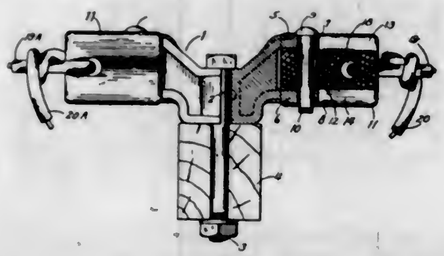
1. In an oil saving device to cooperate with a cable and socket, the combination of a sleeve having means for attaching the same to the upper end of a well tubing or casing, a cap having a bore, seated on the upper end face of the sleeve, a packing ring clamped between the cap and the said end face, a plug threaded to the cap carrying a stuffing box at its upper end and having slots in its wall at its lower end, said sleeve having a circumferential shoulder on its inner face, a trigger pivotally mounted in each slot and having a tail normally projecting into said bore so as to be engaged by the cable-socket, and spring means associated with the triggers for normally holding the triggers in engagement with the said shoulder, said triggers cooperating with said cap to hold the plug in the sleeve when the cap is screwed down on the packing ring, and operating to withdraw substantially into their corresponding slots when their tails are struck by the cable-socket.

1,683,108. CONCRETE PILE FOLLOWER AND METHOD OF MOUNTING THE SAME. JAMES H. SMALL, Jr., Cleveland, Ohio. Filed Sept. 30, 1920. Serial No. 413,866. 14 Claims. (Cl. 61—53.)



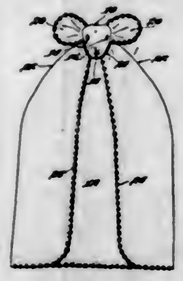
1. The herein described method of pile driving, comprising the provision of a composite concrete follower with a hollow metallic sleeve, driving a wooden pile in place, the butt of the pile being larger than said sleeve, positioning the follower in alinement with the butt, driving the sleeve down about the butt to insure a shearing fit, and thereafter driving the follower and pile as a unit to the depth desired, substantially as set forth.

1,683,109. CONDUCTOR SUPPORT. EDWARD B. SNYDER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 7, 1924. Serial No. 697,669. 3 Claims. (Cl. 173—321.)



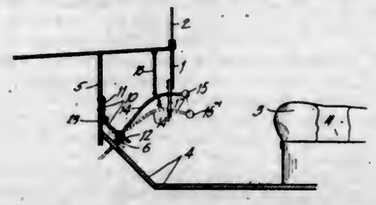
1. A combination comprising a body member, an insulating member, means on the body member to receive the insulating member, means to secure the insulating member to the body member, the insulating member provided with two pair of oppositely disposed longitudinal grooves, all grooves being parallel and each pair defined by flanges disposed at 90 degrees to the other pair, the insulating member provided with a transverse opening therethrough connecting the grooves of one pair and located adjacent the end of the insulating member to receive the connecting means on the body member, the insulating member provided with another transverse opening therethrough connecting the other pair of grooves adjacent the opposite end of the insulating member to receive a conductor and place the insulating member in tension when in action, a conductor passing through the last transverse opening and secured to the insulator and having its end free for connection and the body member provided with an opening therethrough and having its axis parallel to one of the aforesaid openings in the insulator to receive a pin to secure the body to a support.

1,683,110. WASH CLOTH. MABEL Y. STOCKBOWER, Hollis Gardens, N. Y., assignor to Earnshaw Knitting Company, Newton, Mass., a Corporation of Massachusetts. Filed Feb. 12, 1927. Serial No. 167,738. 6 Claims. (Cl. 46—40.)



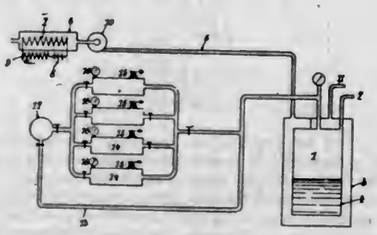
6. A one-piece rectangular wash-cloth having its upper central portion folded to simulate the head of an animal and its two upper corners folded to simulate a pair of ears and a cord for forming a neck and for holding said ears in proper relation to said head the sides of said cloth being folded over upon the body portion to simulate a cape.

1,683,111. HAND STARTER FOR AUTOMOBILES. JULUIES WASHINGTON, Ravena, N. Y. Filed July 29, 1927. Serial No. 209,377. 3 Claims. (Cl. 74—39.)



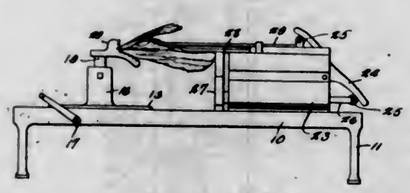
1. In a motor vehicle having an instrument board, the combination with an electric switch for starting the motor and adapted to be actuated by the foot of the operator, of a hinged element connected to said vehicle and having a movable member extending over said switch, a lever connected to said hinged element and extending upwardly and backwardly below the instrument board to a point within easy reach of the vehicle operator, and a slotted element attached to said instrument board and forming a guide adapted to permit the lever to be moved in a vertical plane about the axis of the hinged element.

1,683,112. GAS-SUPPLYING APPARATUS. ROBERT WEBER, Hayange, Moselle, France, assignor to Les Petits Fils de François de Wendel & Cie., Paris, France. Filed May 12, 1924, Serial No. 712,827, and in France May 22, 1923. 2 Claims. (Cl. 62—1.)



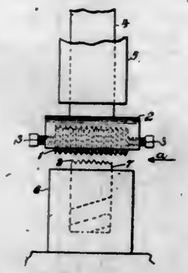
1. A plant for supplying a gas to an apparatus using the same comprising a double wall receptacle adapted to contain the liquefied gas, a heating device embodying an electrical source, an electric resistance and a control rheostat electrically connected together, means for circulating an auxiliary gas between the walls of said receptacle and through said heating device and pipe lines connecting said receptacle to said apparatus.

1,683,113. OYSTER-OPENING MACHINE. HOWARD J. WHELAN, Baltimore, Md. Filed Feb. 21, 1928. Serial No. 255,868. 5 Claims. (Cl. 17—4.)



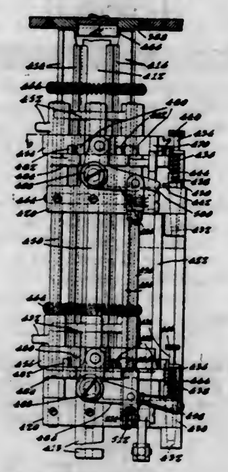
1. In an oyster shucker of the kind described, a movable support provided with a body having a concave oyster engaging face, and a pair of spaced arms projecting from the body to lie below and support a bivalve engaged against said face.

1,683,114. THREAD-CORRECTING DEVICE. EDWIN O. WILLIAMSON, New Haven, Conn., assignor to The Eastern Machine Screw Corporation, New Haven, Conn. Filed Dec. 30, 1926. Serial No. 157,884. 1 Claim. (Cl. 10—1.)



In a device for correcting the imperfections in preformed chaser threads, means for rigidly holding the chaser with the threads on the end of the chaser exposed protruding above said holding means and reciprocal means having master threads projecting therebelow for correcting the chaser threads by a series of short continuous and rapid blows delivered to the chaser threads thereby to gradually upset the metal of the chaser threads and render the surfaces thereof smooth without affecting the original length of the chaser.

1,683,115. HEEL PRESS. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Sept. 22, 1922, Serial No. 589,794. Divided and this application filed July 25, 1925. Serial No. 46,001. 25 Claims. (Cl. 12—42.)

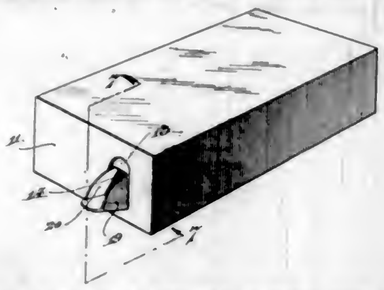


1. A tube type heel press comprising side members with which a heel engages when within the press, a frame supporting said side members, means for yieldingly pressing said side members inward, and means mounted in fixed position at one end of the press with which said side members engage to limit their inward movement when the press is empty.

1,683,116. CARTON. GLENDON T. WOOD, Philadelphia, Pa. Filed Apr. 7, 1927. Serial No. 181,634. 4 Claims. (Cl. 229—17.)

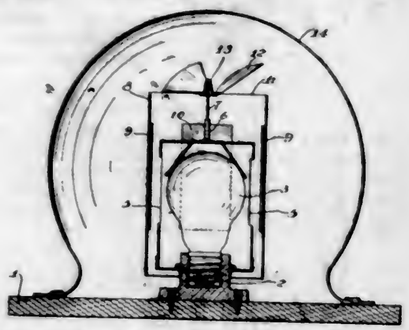
1. A piece of material in the form of a container comprising side pieces and cover pieces, an extension on one of said cover pieces, the line therebetween acting as a

hinge, portions of said extension adapted to be folded to form a spout and swing through said cover piece and an opening in the other cover piece at a second point on said



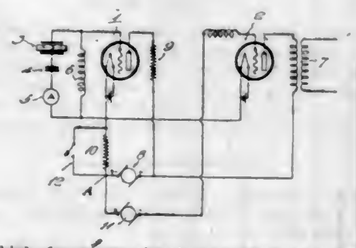
extension serving as a hinge, said extension being folded on the first cover piece in a position between the cover pieces.

1,683,117. ADVERTISING DEVICE. HARVEY L. YOAS, Du Bois, Pa. Filed Apr. 4, 1927. Serial No. 180,636. 1 Claim. (Cl. 240—49.)



The combination with a globe of light transmitting material, of an illuminating device therefor comprising a lighting fixture, including a socket and incandescent lamp, an inner opaque casing surrounding said fixture, and having a base portion fitting around and engaging said socket and a top portion fitting over and engaging said lamp, said casing being provided with a slot through its side wall, an outer opaque casing surrounding the inner casing and supported for rotation thereon, and means carried by the outer casing whereby it is rotated by heat from the lamp, said outer casing having its side wall provided with a window which registers with said slot at each revolution of said outer casing.

1,683,118. RADIO TELEGRAPH KEYING SYSTEM. LEO C. YOUNG, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 15, 1926. Serial No. 155,026. 5 Claims. (Cl. 250—19.)



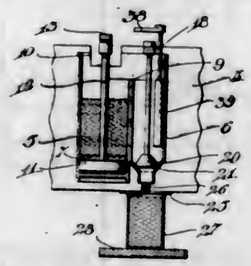
1. A high frequency signal transmission system comprising a plurality of electron tubes each having grid, filament and plate electrodes, input and output circuits interconnecting said electrodes, including a circuit to interlink the output circuits of one of said tubes with the input circuit of a succeeding tube, the circuits of one of said tubes being arranged to sustain high frequency oscillations at a selected frequency, and another of said tubes being arranged to amplify the oscillations produced by the first mentioned tube, a source of high potential for supplying power to the output circuits of each of said tubes, a source of potential for impressing a high negative charge on the grid electrode of the last mentioned tube, and a resistance device connected between said sources of potential and a point common to the input and output circuits of the first mentioned electron tube, and means for abruptly changing the condition of said resistance element for controlling the operation of the electron tubes in accordance with telegraphic signals.

1,683,119. UMBILICAL CLAMP TOOL. CHARLES E. ZIEGLER, Pittsburgh, Pa. Filed Sept. 21, 1927. Serial No. 220,915. 2 Claims. (Cl. 128—346.)



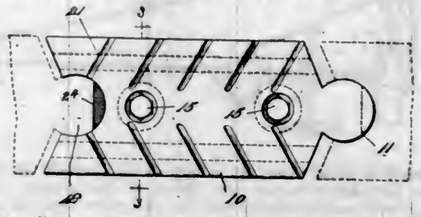
1. A tool for applying an apertured disc umbilical cord clamp comprising in combination a pair of pivoted jaws, handles actuating said jaws, a third jaw adapted to reciprocate between said pivoted jaws, a toggle joint actuating said third jaw and connected to said handles, and prongs disposed on all of said jaws, said prongs having end portions parallel to each other for a distance equal to the thickness of said disc and adapted to engage the aperture therein and to maintain the disc thereon when deflected inwardly toward said jaws when said jaws are opened, and having rounded ends to effect removal of the disc upon a subsequent jaw-opening movement after the disc has been deflected outwardly.

1,683,120. LIQUID-MEASURING VALVE. CHARLES H. AYARS, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J. Filed Jan. 16, 1926. Serial No. 81,704. 6 Claims. (Cl. 226—97.)



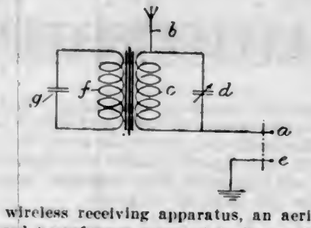
3. A liquid measuring device for filling cans including a rotary tank; filling cylinders communicating with the tank through openings at their lower ends; pistons in the cylinders; valve chambers in communication with the upper part of the filling cylinders; valves in the valve chambers; means for reciprocating the pistons, and means for opening the valves.

1,683,121. LINE MARKER FOR ROADBEDS. LEON F. N. BALDWIN, Edgewood, R. I., assignor of one-half to Benjamin S. Clark, Providence, R. I. Filed May 1, 1926. Serial No. 106,105. 3 Claims. (Cl. 94—1.5.)



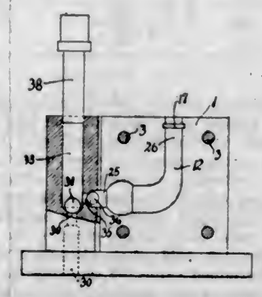
2. A line marker for a roadbed comprising a series of plates, each plate having a rounded head at one end and provided with a circular socket at its other end to receive and retain the head of the next adjacent plate by which said plates are flexibly connected end to end.

1,683,122. ANTISTATIC ARRARNGEMENT IN WIRELESS RECEIVING APPARATUS. ARTHUR ELLIOT BEATTIE, Manzanillo, Cuba. Filed July 2, 1927, Serial No. 203,150, and in Great Britain Aug. 21, 1926. 3 Claims. (Cl. 250—20.)



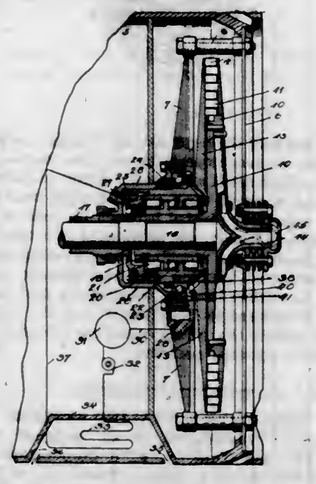
1. In a wireless receiving apparatus, an aerial circuit, an iron cored transformer resonant to low audio-frequencies and having a primary winding in series with said aerial circuit and a closed secondary winding, and a capacity capable of passing radio-frequencies but offering a high impedance to audio-frequencies in parallel with said primary winding.

1,683,123. APPARATUS FOR DRAWING METAL. CARL BERGMANN, Jr., Lynbrook, N. Y., assignor of one-half to Gustave R. Thompson, New York, N. Y. Original application filed May 18, 1920, Serial No. 382,372. Divided and this application filed Apr. 18, 1925. Serial No. 24,055. 4 Claims. (Cl. 113—44.)



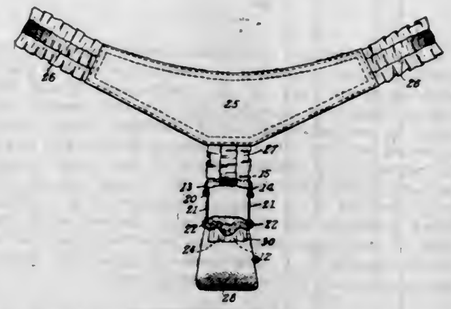
1. An apparatus for making seamless, tapered, bent drawn articles, comprising a series of dies adapted to successively receive a bent tube or shell therein, each die having a tapered bent form, and being made in parts adapted to be separated and closed to admit and hold the tube or shell, means for holding the dieparts together, and fluid pressure means for expanding said tube or shell in said series of dies, each of said dies having at one end parts of uniform size throughout the series adapted to fit closely around one end of the tube or shell to be expanded therein.

1,683,124. TORPEDO. ARTHUR F. BLASIAR, Guilford, N. Y. Filed Feb. 28, 1925. Serial No. 12,445. 5 Claims. (Cl. 184—6.)



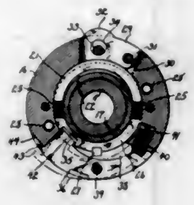
1. In a torpedo, in combination, driving and driven turbine wheels, concentric driven shafts with which said wheels are connected, antifriction devices interposed between the relatively moving parts to reduce friction, a lubricating circulating system for forcing oil over the relatively moving parts, and a chamber through which seat water may automatically pass in transit of the torpedo through water, the chamber housing a portion of the lubricating system in the path of flow of the water therethrough.

1,683,125. FABRIC GRIP. TERRICE G. BRADY and CELIA NELKIN, New York, N. Y. Filed Sept. 1, 1926. Serial No. 132,988. 3 Claims. (Cl. 24—193.)



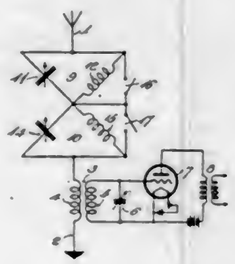
1. A device of the class described comprising a unitary substantially rectangular wire rear loop having a pair of eyes formed in the upper part of its side members, and a straight batten bar member connecting the sides, a second loop having hooked ends engaged in said eyes, the sides of the second loop registering with the sides of the first member, and an undulating bar connecting the sides of the second member, the undulations of said bar extending beyond the sides and bottom of the first loop.

1,683,126. SELF-OPENING DIE HEAD. ALBERT F. BREITENSTEIN, New Haven, Conn., assignor to The Geometric Tool Co., New Haven, Conn. Filed Nov. 23, 1925. Serial No. 70,949. 6 Claims. (Cl. 10—95.)



3. A self-opening die-head having a body, radially-movable chasers, a chaser-operating member having chaser-closing, chaser-retracted and chaser-clearance positions, an adjusting-ring mounted upon the said body, and a spring-actuated stop-member pivoted between its ends in the said chaser-operating member, one of its ends co-acting with the said adjusting-ring for stopping the operating-member in its chaser-retracted position and its opposite end being adapted to be pushed inward, whereby its first mentioned end is moved outward to disengage it from the said adjusting-ring to permit the chaser-operating member to move into its chaser-clearance position.

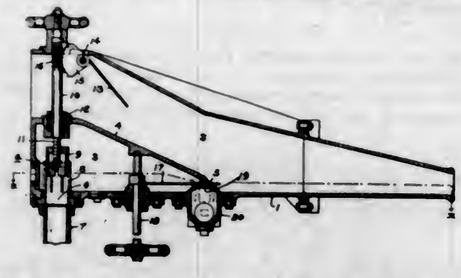
1,683,127. SELECTIVE SIGNALING SYSTEM. THOMAS McL. DAVIS, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed May 12, 1926. Serial No. 108,666. 4 Claims. (Cl. 250—20.)



1. An interference prevention circuit, for signal receiving systems comprising in combination with a signal receiving circuit a pair of trap circuits, each of said trap circuits comprising variable inductance and capacity connected in parallel, with one of said trap circuits series connected with the other of said trap circuits and means for independently shunting either of said trap circuits, the inductance and capacity in one of said trap circuits being arranged to be tuned to resonance with an interfering frequency for the exclusion thereof, while the other of said trap circuits may have its capacitive reactance adjusted to a value equal and opposite to the inductive reactance of the other trap circuit.

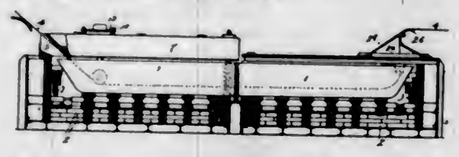
1,683,128. GAS BURNER. SAMUEL E. DIESCHER, Wilkinsburg, Pa. Filed Oct. 24, 1923, Serial No. 670,456. Renewed July 9, 1925. 1 Claim. (Cl. 158—119.)

A gas burner having in combination a shell provided with an air passage substantially rectangular in cross section and with a gas chamber so communicating with the air passage as to deliver gas to the underside of a stream of air flowing through the passage, gas supplying means having rectangular ports communicating with the gas chamber, a valve adapted to change the dimensions of said ports without changing their shape, a damper



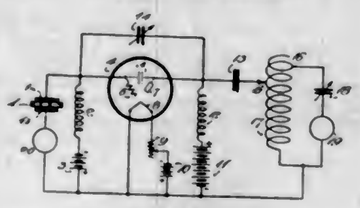
adapted to change the rate of flow of air through the passage without changing the shape of the stream, and means for simultaneously shifting the valve and damper.

1,683,129. METAL-TEMPERING APPARATUS. HENRY J. GAISMAN, New York, and CONRAD SCHUMACHER, Lynbrook, N. Y., assignors to Autostrop Patents Corporation, Dover, Del., a Corporation of Delaware. Filed June 28, 1923, Serial No. 648,175. Renewed Feb. 4, 1928. 19 Claims. (Cl. 266—3.)



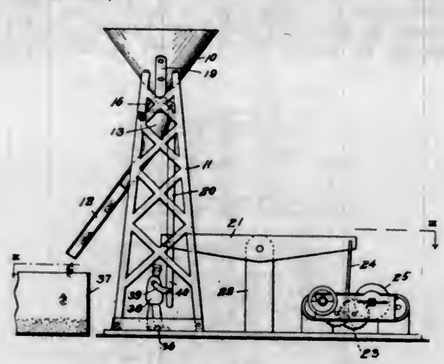
1. A tempering apparatus comprising a tank for tempering material, means to heat said tank, and guiding means in the tank for a strip, part of the guiding means dividing the tank into a plurality of chambers for said material, said apparatus being provided with openings for entrance and egress of the strip.

1,683,130. PIEZO-ELECTRIC CRYSTAL-CONTROLLED OSCILLATOR. LOUIS A. GEBHARD, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 16, 1926. Serial No. 155,236. 3 Claims. (Cl. 250—36.)



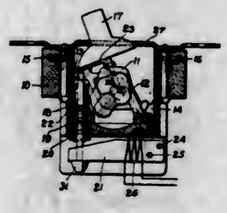
1. A piezo electric crystal control system comprising an electron tube having grid, filament and plate electrodes, an input circuit interconnecting said grid and filament electrodes, an output circuit interconnecting said plate and filament electrodes, an oscillatory circuit connected with said output circuit, a piezo electric crystal element connected in said input circuit and a varaible condenser coupling said input and output circuits for maintaining the current through said piezo electric crystal element below a predetermined value for relieving the strain upon said piezo electric crystal element while sustaining oscillations at maximum amplitude and at the frequency of said piezo electric crystal element in said oscillatory circuit.

1,683,131. TOY. LESTER S. GUNDERMAN, Pittsburgh, Pa. Filed July 16, 1926. Serial No. 122,842. 1 Claim. (Cl. 46—37.)



The combination in a toy including a support of an elevated hopper mounted thereon and provided with an orifice through which material flows from said hopper, of a tube associated with said orifice and extending downwardly therefrom, a tiltable tray located below said outlet for alternately collecting a charge of material while shutting off the flow through said tube and delivering said charge to said tube, an upright mounted on said support, and a walking-beam mechanism for operating said tray including a horizontally-extending lever pivoted to said upright, a motor-operated eccentric mounted on said support, a link connecting one end of said lever to said eccentric, and a tray-operating connecting-rod connecting the other end of said lever to said tray.

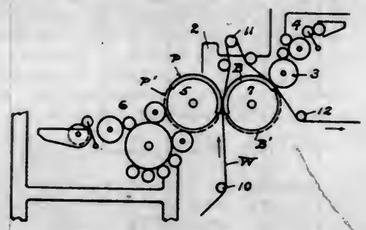
1,683,132. ELECTRIC SWITCH. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed June 3, 1924. Serial No. 717,649. 6 Claims. (Cl. 200—116.)



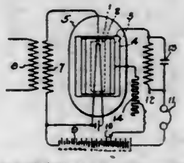
1. In an electric switch, the combination with a movable switch member, of means including a resilient member for operating the switch member with a snap action to and from one position, a second resilient member arranged to be put under strain upon operation of the switch member to the said one position for operating the switch member therefrom with a snap action, and a thermal-responsive latch for controlling the operation of said second resilient member in response to predetermined temperature conditions.

1,683,133. LATE-NEWS AND COLOR-PRINTING MECHANISM. JOHN J. HALLIWELL, Tuckahoe, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 22, 1926. Serial No. 143,319. 4 Claims. (Cl. 101—221.)

1. In a printing mechanism, the combination of a late news printing member for printing in an unprinted portion of a web, an impression member cooperating with the late news printing member and provided with a non-impression surface, a color printing member arranged to cooperate with the impression member and having a non-impression surface, and web guides for guiding the web through the mechanism for color and late news impressions.

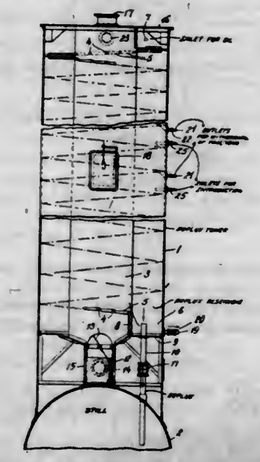


1,683,134. AMPLIFIER. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 28, 1921. Serial No. 525,366. 5 Claims. (Cl. 179—171.)



1. Means for amplifying electric currents comprising an electron discharge device having an electron emitting cathode, a control electrode, an anode and an electrode made up of conducting slats between said cathode and anode, circuit connections between said cathode and each of the other electrodes, means for causing the greater part of the primary electrons emitted from said cathode to strike the slat electrode and produce an emission of impact electrons greater than the primary emission, means for impressing the currents to be amplified upon the circuit between cathode and control electrode, and means for producing an indication of the amplified currents flowing in the circuit connection to the anode.

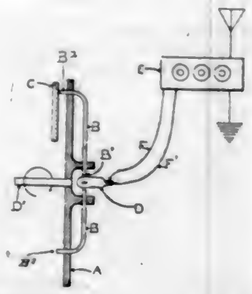
1,683,135. METHOD OF DISTILLATION OF PETROLEUM. EDWARD W. ISOM, Winnetka, Ill., assignor to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed May 6, 1924. Serial No. 711,376. 4 Claims. (Cl. 196—72.)



2. The method of distilling crude oil which comprises introducing into the still substantially less than a normal

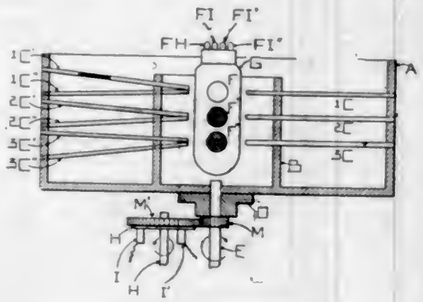
charge of the crude oil, heating the still and subjecting the vapors therefrom to refluxing action until the desired light distillate is removed from the still charge, then introducing additional crude oil to said still in refluxing relation with the vapors therefrom and continuing the heating of the still with regulation of the feed to obtain the desired light distillate from the reflux tower, discontinuing the operation when the still is approximately filled, and distilling the resulting charge directly to a condenser without refluxing.

1,683,136. METHOD OF AND APPARATUS FOR CONVERTING LIGHT IMPULSES INTO GRAPHIC REPRESENTATIONS. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Apr. 22, 1926. Serial No. 103,692. 17 Claims. (Cl. 178—6.)



2. The method of scanning a plane which includes the step of distributing light from a light source through a channel of sharp light boundary from end to end during relative movement of the light source and the channel.

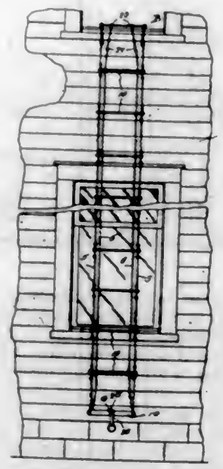
1,683,137. METHOD OF AND APPARATUS FOR CONVERTING LIGHT IMPULSES INTO ENLARGED GRAPHIC REPRESENTATIONS. CHARLES FRANCIS JENKINS, Washington, D. C. Filed June 2, 1926. Serial No. 113,266. 24 Claims. (Cl. 178—6.)



2. The method of scanning a plane which consists in distributing light from a light source through a plurality of channels of sharp light boundary from end to end, and rotating the channels with the axes in separate planes.

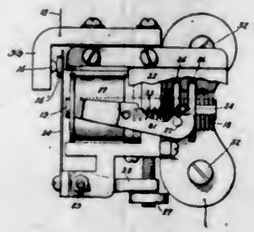
1,683,138. FIRE ESCAPE. WILLIAM KAUTZ, Willard, Ohio. Filed Nov. 29, 1926. Serial No. 151,480. 3 Claims. (Cl. 228—40.)

1. In a fire escape of the class described, a plurality of chain lengths adapted for vertical disposition on the outside of a building, ladder steps arranged at predetermined spaced intervals throughout the chain lengths, a window sill attaching unit at the upper ends of the chain lengths, a cross bar secured at its ends to the lower ends of the chain lengths, and means upon the outside of the building adjacent the foundation thereof for engagement with the cross bar for locking the fire escape against swinging



movement, said means comprising a fixed member extending laterally from the building, and a vertically swinging normally pendent lever pivoted at its upper end on the outer end of said member, said lever when pendent preventing the disengagement of the cross bar from beneath the laterally extending member.

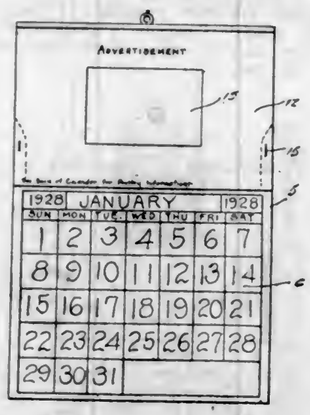
1,683,139. VIBRATING REGULATOR. WILLIAM K. KEARSLEY, Jr., Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 13, 1921. Serial No. 522,137. 7 Claims. (Cl. 200—90.)



1. An electric regulator comprising a core, a magnetizing coil therefor, a movable armature, electric contacts for making and breaking an electric circuit operatively connected to said armature, and means for changing the electric reluctance of the magnetic circuit between different values to vary the vibration characteristic of said regulator, said means resisting adjustment to an intermediate value and passing from one respective value to another with a snap action.

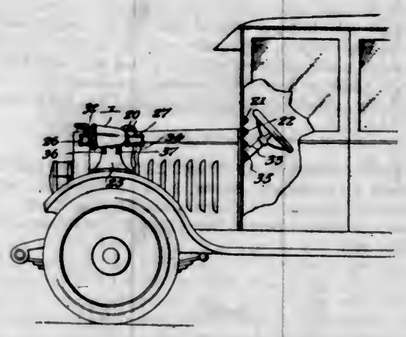
1,683,140. POULTRY-RECORD CALENDAR. WESLEY GEORGE KOHL, Iowa City, Iowa. Filed Sept. 8, 1927. Serial No. 218,247. 2 Claims. (Cl. 281—31.)

1. In an article of the class described, a base member, a pad of poultry record sheets secured along one edge to said base member and corresponding in number to the calendar months and being consecutively marked in accordance therewith, each of said poultry record sheets being ruled to provide separate columns upon which to record the sale of poultry products, the expense thereof, the daily record of eggs produced and to enable totals of such records to be made, whereby to determine the extent of profits or losses



during a particular month, said column for the daily record of eggs produced corresponding with the days of the current month of the calendar in order to record the data in chronological order and a cover sheet for the poultry record sheet having a pocket formed therein and adapted to have the free edge of each of the sheets inserted therein whereby to afford access to the next succeeding record sheet.

1,683,141. REVERSIBLE LIGHT FOR AUTOMOBILES. HARRY LENFERS, Evansville, Ind. Filed Dec. 6, 1927. Serial No. 238,167. 9 Claims. (Cl. 240—7.1.)

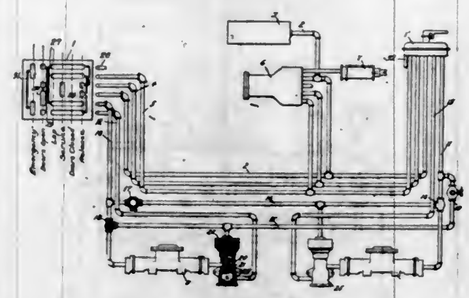


1. In a reflecting lamp, the combination with the lens and reflector of the lamp, of a movably mounted multiple-socket lamp support all of whose sockets are jointly exposed in front of the reflector, independent electric bulbs carried by said sockets, and means controllable at will for moving the lamp support to position either one of said lamp bulbs in reflecting position in relation to the reflector.

1,683,142. CAR-DOOR-CONTROL EQUIPMENT. GEORGE MACLOSKIE and CHARLES A. IVES, Erie, Pa., assignors to General Electric Company, a Corporation of New York. Filed Feb. 23, 1921. Serial No. 447,358. 18 Claims. (Cl. 303—6.1.)

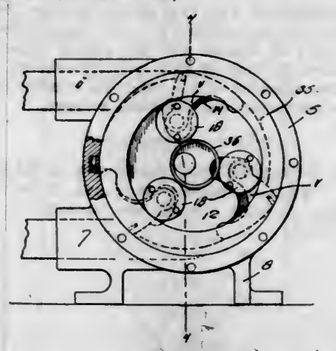
2. In a car door control equipment, the combination of a fluid operated door engine at each operating end of the car for operating a door thereat, a source of fluid pressure,

a manually controlled door valve at each operating end of the car arranged to establish suitable communication between said source and the engine at the corresponding end of the car to effect the opening and closing of the door thereat, a valve means associated with each engine and



adapted to be controlled by the door valve at the other end of the car so that both engines are simultaneously operated, and a manually controlled device at each end of the car arranged to prevent the door valve at the corresponding end from controlling the valve means associated with the engine at the other end.

1,683,143. ROTARY PUMP. FRANCIS C. PETERSON, Everett, Wash. Filed May 7, 1927. Serial No. 189,575. 5 Claims. (Cl. 103—140.)

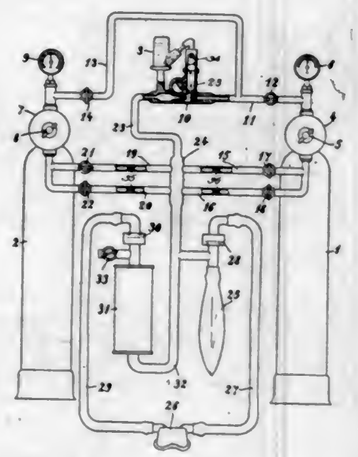


1. In a pump, a cylindrical stator casing or shell having an outlet and an inlet, cylinder heads for the casing, a cylindrical piston in the casing, means for mounting the piston eccentrically in the casing, said piston having peripheral compartments, impellers mounted in said compartments, axles journalled through said impellers, rollers on the axles, rings in the casing one on each side of the piston to hold the impellers against axial movement and having openings concentric with the casing, and means engaging the rollers to hold them in engagement with the peripheries of the openings of the rings.

1,683,144. INHALING APPARATUS FOR NARCOTICS. HANS WILHELM CHRISTIAN SCHRÖDER, Lubeck, Germany, assignor to Alexander Bernhard Dräger, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Dräger, deceased. Filed Mar. 26, 1927, Serial No. 178,748, and in Germany Mar. 11, 1926. 2 Claims. (Cl. 128—203.)

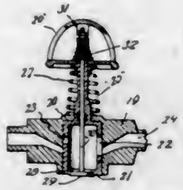
1. Apparatus for administering anæsthetic gases comprising a source of anæsthetic gas of constant pressure, a source of nutrient gas of constant pressure, a mixing

chamber, a conduit leading from said chamber and terminating in two branches, connected to said sources respectively, valve means adapted to shut off said branches selectively, a vapor admixing device including a throttling member inserted in said conduit and serving to admix anesthetic vapors with the gas passing therethrough, a face



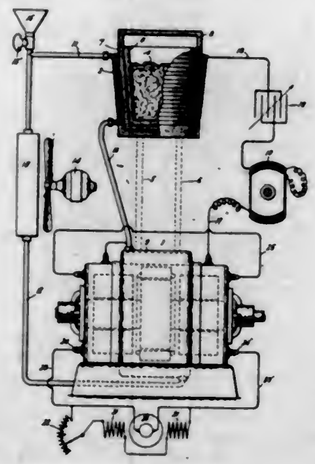
piece communicating with said mixing chamber, two sets of conduits, each set forming a direct communication between one of said sources and said mixing chamber and valves adapted to shut off said conduits selectively, each conduit being provided with a throttling element equal in size to the aforementioned throttling member.

1,683,145. STEAM-SUPPLY DEVICE FOR ELECTRIC IRONS. WILLIAM HERBERT SLONAKER, Detroit, Mich. Filed Nov. 29, 1926. Serial No. 151,473. 3 Claims. (Cl. 277—20.)



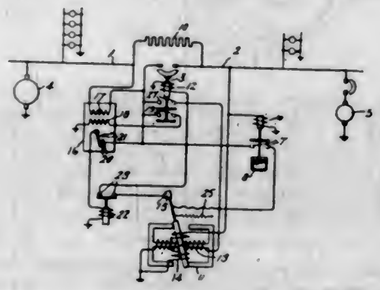
1. In a steam supply control valve, a casing provided with diametrically opposed steam inlet and outlet openings, a hollow body vertically slidable within the casing, said hollow body being provided with diametrically opposed inlet and outlet openings, the inlet opening in the body being at all times in communication with the inlet opening of the casing, the outlet openings being normally out of registry with each other, a stem extending upwardly from the hollow body and freely slidable through the top of the casing, a handle on the upper end thereof for manually moving the hollow body downwardly in the casing for bringing the outlet opening in the hollow body into communication with the outlet opening of the casing, whereby the steam may be emitted through the outlet opening in the casing, and resilient means for normally maintaining the hollow body in a raised position to prevent the discharge of the steam through the outlet opening in the casing.

1,683,146. HIGH-FREQUENCY INDUCTION APPARATUS. ELIHU THOMSON, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 25, 1924. Serial No. 709,045. 5 Claims. (Cl. 266—1.5.)



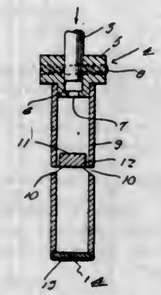
1. An electric heating apparatus comprising the combination of a dynamo-electric machine capable of delivering alternating current of a periodicity of about ten to twenty kilocycles per second, a primary inducing winding connected to said source and constructed to permit electromagnetic interlinkage with a load to be heated without interlinkage with a magnetic core, a variable reactance connected in the electric circuit in series with said dynamo-electric machine and said winding, and common cooling means for said dynamo-electric machine and said winding.

1,683,147. SYSTEM OF ELECTRICAL DISTRIBUTION. ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 1, 1924. Serial No. 747,395. 11 Claims. (Cl. 171—97.)



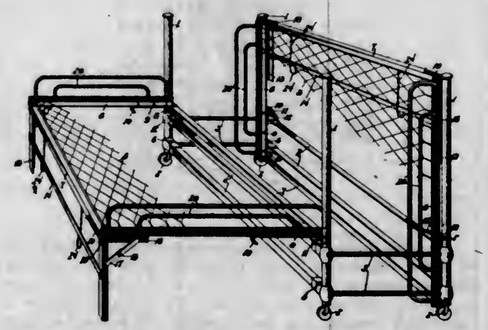
1. In a system of electrical distribution, two electric circuits adapted to be energized independently, a circuit breaker for connecting said electric circuits together, power directional means for effecting the opening of said circuit breaker when a predetermined amount of current flows from one of said electric circuits to the other, and means controlled by the voltage across said one of said electric circuits for effecting the reclosure of said circuit breaker.

1,683,148. EXCESS-STEAM-PRESSURE SIGNAL. JOSEPH BACKSTATTER, Winfield, N. Y. Filed Apr. 7, 1928. Serial No. 268,199. 2 Claims. (Cl. 116—112.)



1. As a new product of manufacture, an audible steam pressure signal of the class described comprising an attachment including a coupling for the lower end of an overflow pipe, and a ported cylinder carried by said coupling.

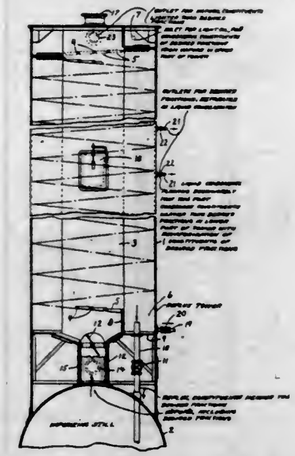
1,683,149. FOLDING TWIN BEDS. CLARENCE R. BALL, Washington, D. C. Filed June 30, 1926. Serial No. 119,765. 2 Claims. (Cl. 5—8.)



1. In a twin bed structure, the combination with an open main frame including corner posts and side and end rails connecting the same only at the lower portions of the posts, of a bed frame at each side of the main frame, means on the main frame and bed frames whereby the latter have a combined laterally folding and sliding movement on the former to permit the bed frames to abut each other or to provide a passageway therebetwen when open, legs for supporting the outer sides of the bed frames when they are in horizontal position, and means for retaining said bed frames in vertical position within the main frame and in spaced relation to each other.

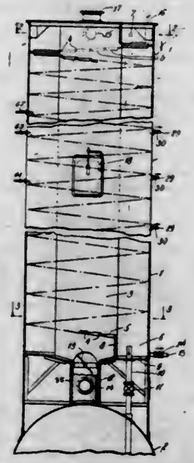
1,683,150. FRACTIONAL DISTILLATION OF PETROLEUM. JOHN E. BELL, Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Mar. 27, 1924. Serial No. 702,256. 7 Claims. (Cl. 196—139.)

7. The improvement in the fractional distillation of hydrocarbon oils, which comprises supplying oil containing a fraction to be separated and substantially no components lighter than the fraction to be separated to a vaporizing zone and subjecting the oil to a vaporizing operation therein, passing vapors of the oil from the vaporizing zone through a continued refluxing zone, independently supplying oil lighter than the said fraction to the end of the



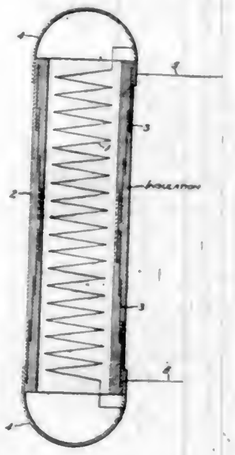
refluxing zone away from the vaporizing zone, and taking off the fraction to be separated from an intermediate point in the refluxing zone.

1,683,151. METHOD AND APPARATUS FOR DISTILLING PETROLEUM OILS. JOHN E. BELL, Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Apr. 1, 1924. Serial No. 703,338. 8 Claims. (Cl. 196—139.)



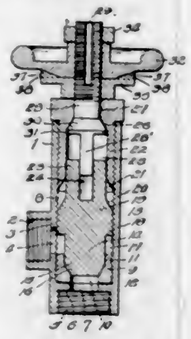
1. In the fractional distillation of petroleum oils, introducing hot oil vapors into the lower portion of a fractionating tower and introducing the oil to be fractionated into the upper portion of the said tower, causing the liquid oil introduced into the upper portion of the tower to flow downwardly in a substantially continuous helical stream through the tower and causing the oil vapors to flow upwardly in a helical path in direct contact with the surface of the stream of liquid oil and in indirect heat exchanging relation with the stream of liquid oil at a higher point.

1,683,152. CORONA-PREVENTING APPARATUS. JOSEF BIERMANNS, Karlshorst, near Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Feb. 8, 1926, Serial No. 86,693, and in Germany Feb. 23, 1925. 5 Claims. (Cl. 201—63.)



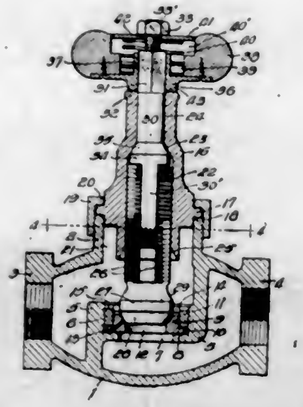
1. Means for preventing the formation of corona about a resistance conductor comprising a tubular shield of insulating material adapted to receive the conductor, said shield having members closing the ends thereof and having spaced conducting inserts embedded therein and extending in a series lengthwise of the tube.

1,683,153. VALVE. JAMES A. BISHOP, Mascoutah, Ill.; Lulu H. Bishop administratrix of said James A. Bishop, deceased. Filed Feb. 7, 1925. Serial No. 7,501. 1 Claim. (Cl. 251—47.)



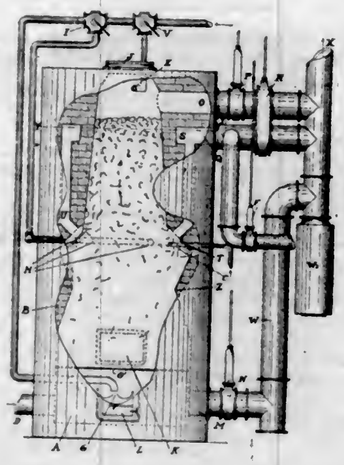
In a packless valve, a hollow internally screw threaded casing, an internal flange at the lower end of said casing, said casing having an inlet and outlet opening, a replaceable metallic member provided with an opening terminating upwardly in a tapered seating surface, said replaceable member having screw threaded engagement with said casing and engaging said flange, a valve member having a central section in screw threaded engagement with said casing, a lower section of less diameter than the central section to provide a space between the lower section and the casing, a seating face at the lower end of the lower section adapted for engagement with the seating surface of the replaceable member and a bifurcated cylindrical upper section of less diameter than said central section, a tapered seating surface at the upper end of said central section, a sleeve plug having screw threaded engagement with said casing and having its inner end provided with a tapered seating surface adapted to be engaged by the upper tapered seating surface of the central section of said valve member, the upper section of said valve member having telescopic connection with said sleeve plug, a valve stem having an inverted cone head receivable in said sleeve plug and extending upwardly therethrough, a coacting seating surface in said sleeve plug for said cone head, a flat tongue directed inwardly from said cone head and receivable in the bifurcation of the upper section of said valve member, a plate having screw threaded connection with said valve stem and engaging the upper outer face of the sleeve plug, spaced lugs on the upper face of said plate, a handle having a spline connection with said valve stem, a multiplicity of radial grooves formed in the lower face of the handle for adjustable connection with said lugs and a nut carried by said valve stem in contact with said handle.

1,683,154. VALVE. JAMES A. BISHOP, Mascoutah, Ill.; Lulu H. Bishop administratrix of said James A. Bishop, deceased. Filed Feb. 15, 1926. Serial No. 88,258. 1 Claim. (Cl. 251—32.)



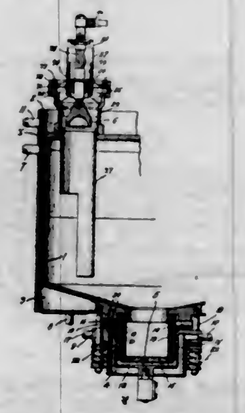
In a packless valve, a casing having an inlet opening and an outlet opening, a casing partition having an opening disposed between the inlet and outlet openings, a recess formed in said partition adjacent the opening therein, a replaceable seating ring having a tapered seating surface disposed in said recess, a flange for said seating ring, a lock ring having screw threaded engagement with the wall of the recess and engaging the flange of said seating ring, an internally screw threaded closing cap member removably secured to the casing, an internal tapered seating surface at the lower end thereof, a valve plug having screw threaded engagement at its upper end with the closing cap member, an external tapered seating surface at the lower end of said valve plug adapted to co-act with tapered seating surface of said seating ring member, an upper external tapered seating surface for said valve plug adapted to co-act with the tapered seating surface at the lower end of said closing cap member, an internal tapered seating surface near the upper end of said closing cap member, a valve stem rotatably carried by the upper end of said closing cap member, an external tapered seating surface at the lower end of said valve stem adapted to co-act with the upper internal tapered seating surface of the closing cap member, a sliding connection between the valve stem and the valve plug, a handle having an annular groove surrounding the upper end of the valve stem and terminating upwardly in a recess, a coiled spring seated in the annular groove and extending into the recess, a metallic disc seated upon said spring and receivable in said recess, and a nut for said valve stem engaging said metallic disc.

1,683,155. GAS GENERATOR. CLAUDE WINFIELD BOTSFORD, Chicago, Ill., assignor to William W. Odell, Pittsburgh, Pa. Filed Dec. 26, 1919. Serial No. 347,566. 6 Claims. (Cl. 48—78.)



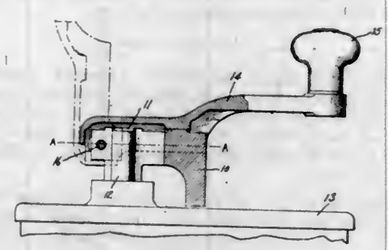
1. A combined water gas generator and gas producer comprising a substantially upright, lined shell for retaining a bed of ignited solid fuel, said shell having an annular recess in said lining intermediate the ends of said shell and contacting said fuel, said shell being provided with separate and independent passages for admitting steam and an air blast directly to the fuel bed at said annular recess, outlets adjacent the top and bottom of said shell for the discharge of gas and valves for controlling said discharge outlets.

1,683,156. ELECTRIC DISCHARGE DEVICE. HERBERT D. BROWN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 3, 1925. Serial No. 34,696. 6 Claims. (Cl. 250—27.5.)



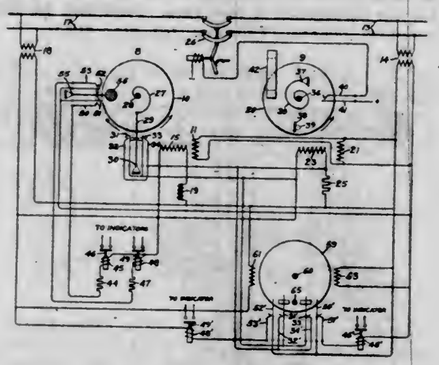
1. An electric discharge device comprising means forming an anode chamber, an anode supported at a point intermediate the ends of said chamber, anode supporting means interposed between said anode and the side wall of said chamber in a manner to permit the free circulation of vapor therethrough, and a cathode mounted outside said anode chamber.

1,683,157. CONTROLLER HANDLE. WALTER W. BROWN, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed June 23, 1927. Serial No. 200,980. 1 Claim. (Cl. 74—33.)



The combination with an electric controller having an operating shaft, of an operating handle for the controller shaft including a slotted hub portion having a shaft-receiving socket intersecting the slot therein, an operating handle pivotally mounted upon the slotted hub portion for rotation in the plane substantially parallel to the slot in said hub, a pair of double conical cam members mounted in the hub on opposite sides of the slot therein, a pair of complementary conical cam members mounted in the operating handle in such cooperating relation with the cam members of the hub as to increase the width of the slot in the hub when the operating handle is raised to a position substantially at right angles to the hub and to decrease the width of the slot in the hub when the operating handle is lowered into alignment with the hub.

1,683,158. SYNCHRONIZING APPARATUS. WALDEMAR BRÜCKEL, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed July 17, 1925, Serial No. 44,226, and in Germany Aug. 6, 1924. 18 Claims. (Cl. 171—118.)

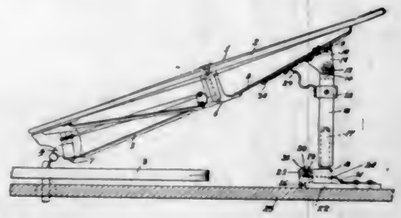


18. An apparatus for paralleling two alternating current circuits comprising electro-responsive means having a movable member arranged to be actuated in accordance with the product of the voltages of said circuits and the cosine of the phase angle between the voltages, and a cooperating electroresponsive means having a movable member arranged to be actuated in accordance with the product of said voltages and the sine of said angle.

1,683,159. PROCESS FOR THE PRODUCTION OF SOLUBLE SALTS OF ORGANIC COMPOUNDS POSSESSING ACID CHARACTER. MAX BUCHNER, Hanover-Kleefeld, Germany, assignor to Albert Fritz Meyerhofer, Zurich, Switzerland. Filed Dec. 22, 1925, Serial No. 77,129, and in Germany Jan. 16, 1925. 9 Claims. (Cl. 260—112.)

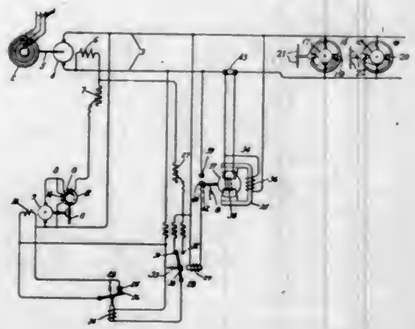
1. The method of making soluble salts of organic substances having an acid character, which comprises first forming an insoluble metal compound of the substance, and reacting upon the same with a fluoride whose base forms a soluble organic compound therewith.

1,683,160. TALKING MACHINE. HORACE LEOPOLD TUCKER BUCKLE, Iver Heath, England, assignor to Victor Talking Machine Company, Camden, N. J., a Corporation of New Jersey. Filed May 6, 1925, Serial No. 28,444, and in Great Britain May 14, 1924. 8 Claims. (Cl. 181—31.)



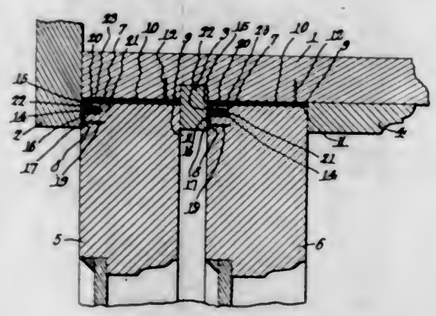
1. In a talking machine of the large diaphragm type wherein a record turntable is mounted above a motor board, a supporting spider for the diaphragm, a stylus carried by the spider and operatively connected to the diaphragm, and means coacting with said stylus to support said diaphragm for playing in a plane inclined with respect to said turntable, said means including a member pivoted to the motor board at one side of said turntable, and means, permitting movement of the diaphragm in vertical and horizontal planes, mounted on said member and secured to said spider at a point substantially diametrically opposite said stylus.

1,683,161. REGULATING SYSTEM. FRANK A. BYLES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 10, 1927. Serial No. 174,381. 7 Claims. (Cl. 171—312.)



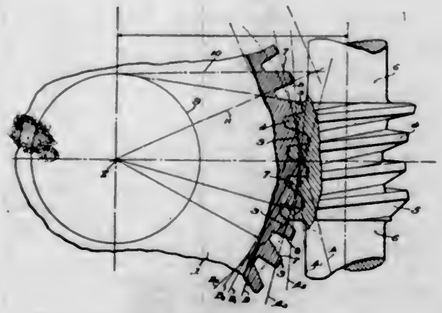
1. In combination, a dynamo-electric machine adapted to operate as a generator or as a motor, regulating means adapted for controlling a plurality of predetermined electrical characteristics of said machine, and means responsive to an electrical characteristic of said dynamo-electric machine for automatically controlling said regulating means to govern one of said predetermined electrical characteristics when said dynamo-electric machine operates as a generator and to govern a different one of said predetermined electrical characteristics when said dynamo-electric machine operates as a motor.

1,683,162. WEATHER STRIP. FRANK E. CALDWELL, North Mankato, Minn. Filed Sept. 7, 1926. Serial No. 134,017. 1 Claim. (Cl. 20—69.)



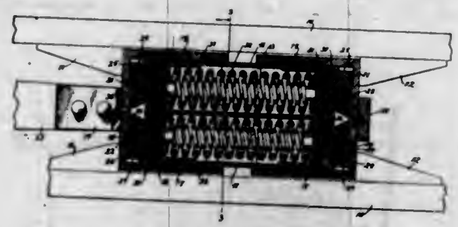
In a device of the class described, a weather strip embodying a wing having a hook-shaped bead, and a weather strip embodying a flange having a sigmoidal portion including an inner trough-shaped part, and an outer trough-shaped part having a lip, the outer trough-shaped part fitting closely and slidably in the hook-shaped bead, and the free edge of the hook-shaped bead fitting closely and slidable in the inner trough-shaped part, the lip being disposed at right angles to the flange and being in slidable contact with the wing, the interfitting portions of the sigmoidal portion and the hook-shaped bead being parallel, whereby they may be separated transversely without distorting either of them.

1,683,163. PRECISION WORM GEARING. SAMUEL I. CONE, Portsmouth, Va., assignor to Cone Gearing Corporation, Norfolk, Va., a Corporation of Virginia. Filed June 27, 1925. Serial No. 40,114. 2 Claims. (Cl. 74—41.)



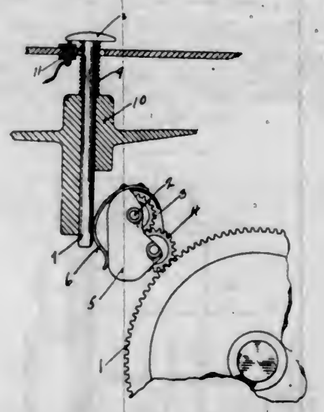
1. A gear wheel for precision worm gearing whereof the teeth are formed with flanks disposed at an acute angle with relation to each other and have relatively unequal slopes to provide for small pressure angle and whereby, when operating with a complemental worm at least four of said teeth will have simultaneous effective sliding contact with relation to the worm.

1,683,164. DRAFT GEAR. WALTER H. COTTON, Chicago, Ill., assignor to Union Draft Gear Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 29, 1923. Serial No. 659,865. 7 Claims. (Cl. 213—26.)



1. In a draft gear, in combination, a pair of chambered followers, a pair of triangular wedge blocks seated against the end walls of each follower, a central element having wedge-shaped ends bearing upon the inner faces of all the said wedge blocks, a friction shoe having a wedging face engageable with the outer face of each wedge block, such shoe having an instanding and inwardly facing shoulder, springs reacting between the shoes at each side of the gear, a friction plate interposed between the shoes at each side of the gear and the adjacent side walls of the followers, and means movable with said central member for positioning said plates.

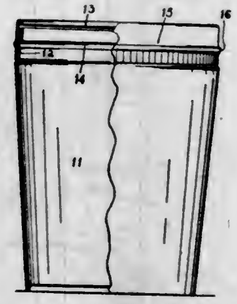
1,683,165. STARTER DRIVE FOR INTERNAL-COMBUSTION ENGINES. JOSEPH C. COULOMBE, Kokomo, Ind. Filed Dec. 21, 1925. Serial No. 76,782. 1 Claim. Cl. 74—7.)



A starter drive for internal combustion engines, comprising a gear on the starting motor shaft, an intermediate gear, a movable housing supporting said intermediate gear radially relative to said motor shaft gear, a spring on said housing, an operating member arranged to apply pressure on the said spring to force said intermediate gear into engagement with the flywheel gear, a starting switch for said starting motor and adapted to be operated by the said operating member.

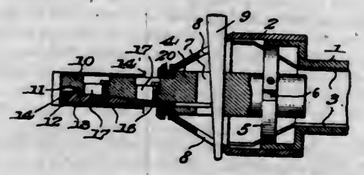
1,683,166. RECEPTACLE. WILLIAM EDMUND JACOBS CROSSBY, Harrow, and JOHN MELLOR, Feltham, England, assignors to Packs (1925) Limited, Feltham, England. Filed Nov. 21, 1927, Serial No. 234,753, and in Great Britain Aug. 26, 1926. 1 Claim. (Cl. 229—5.5.)

A receptacle comprising a body open at one end and having about its open end a depressed rim or flange provided exteriorly with an annular bead, and a lid including an end and a flange adapted to fit about the body flange and provided with a recess to receive the said bead on



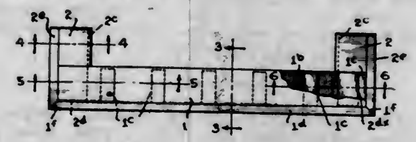
the body flange, the lower edge of the lid flange being crimped inward beneath the said bead and uncrimped above the bead, for the purpose described.

1,683,167. EXPANDING MANDREL. SYLVESTER CUNNINGHAM, Evansville, Ind. Filed Aug. 30, 1926. Serial No. 132,625. 2 Claims. (Cl. 279—2.)



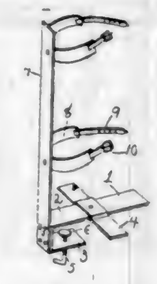
1. In an expanding mandrel of the character set forth, the combination with a shaft and a housing carried thereby, of a mandrel having a part thereof received within the housing and provided with a head, members carried by the shaft which project into the housing and positively locked with the head aforesaid for the purpose of driving the mandrel from the aforesaid shaft, said mandrel having an expanding part extending outside the housing, and means carried by the housing and independent of the aforesaid securing means for operating the expanding part of the mandrel.

1,683,168. ADJUSTABLE MANTEL SHELF. RALPH A. DAMBACH, Evans City, Pa., assignor to The Edward Dambach Co., Evans City, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1926. Serial No. 84,630. 4 Claims. (Cl. 45—51.)



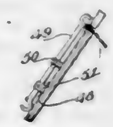
1. An adjustable mantel shelf comprising a front member formed of spaced top and bottom boards, an outer plate board on the front member, side members each comprising spaced top and bottom boards and a member intermediate the top and bottom boards and extending beyond the front ends thereof and adapted to be inserted between the top and bottom boards of the front member; and an outer plate board on each side member closing the space between the top and bottom boards thereof and extending beyond the outer end thereof and closing the space between the top and bottom boards of the front member at the ends thereof.

1,683,169. GOLF-BAG HOLDER. EVERETT A. DE NOTA, Pawhuska, Okla. Filed Aug. 25, 1927. Serial No. 215,448. 1 Claim. (Cl. 224—29.)



A golf bag holder comprising a running board engaging bracket substantially U-shaped in form to provide two spaced running board embracing arms, a clamp screw passing through one of said arms to engage the running board, a cross piece mounted upon one of said arms extending across the arm and being deflected at each side of the arm into the plane of the arm, an upright formed of a flat piece of metal extending upward from the outer closed end of the bracket, the plane of said upright being at right angles to the length of the bracket, and means attached to said upright for engaging the golf bag therewith.

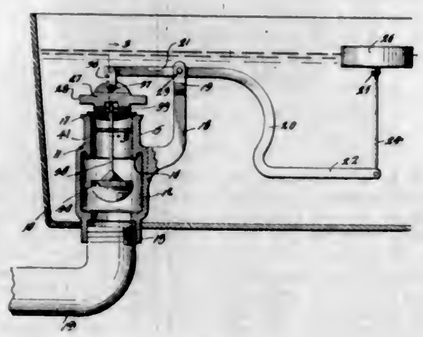
1,683,170. LAMP. DONATO DI CARLO, Philadelphia, Pa. Filed May 25, 1927. Serial No. 193,973. 8 Claims. (Cl. 240—23.)



1. A lamp including a casing body, a light screen unit mounted in the casing body, light screens slidable in said unit, rear guideways formed on the rear of the casing body, a casing back slidable therein, front guideways formed on one front edge of the casing body and on one side of the light screen unit, an apertured casing front slidable in the front guideways, a lens mounted in the casing front, an electric light in the casing body, and means for selectively moving the light screens into position between the light and the lens.

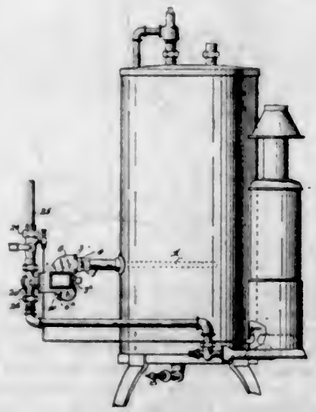
1,683,171. AUTOMATIC FLOAT VALVE. ROBERT T. DICKEY, Del Rio, Tex. Filed Dec. 11, 1926. Serial No. 154,226. 3 Claims. (Cl. 137—104.)

3. An automatic valve comprising a casing formed with an intermediate enlarged casing section, an inlet sleeve formed at the lower end of said casing adapted for connection with a liquid supply pipe and an outlet sleeve formed at the upper end of the casing and having a valve seat formed on its upper edge and a second valve seat formed on its lower edge, a control valve for engagement with the upper valve seat, means for adjusting the said valve with respect to its seat, a safety valve including a valve rod pivotally connected with the control valve and a valve member secured to the lower end of the valve rod and normally suspended in the intermediate portion of the enlarged casing section and engageable with the inner valve seat, a bracket secured to the side of the casing, an arm pivotally connected with the upper end of the bracket, a float connected with the inner end of the arm, links pivotally connecting the outer end of the arm and the control valve whereby the control valve will be automatically



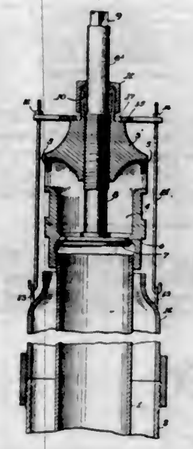
opened and closed by the movement of the float, the said safety valve being vertically operable simultaneously with the movement of the control valve and normally maintained out of engagement with the seat and engageable with the inner seat by the pressure of the liquid when the control valve and adjusting means therefor fails to function.

1,683,172. THERMOSTATIC VALVE. LORAN F. DOEN, Cleveland, Ohio, assignor to The Cleveland Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 27, 1925. Serial No. 4,995. 6 Claims. (Cl. 236—48.)



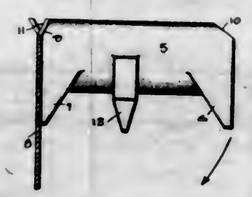
3. In a device of the character described, a fuel supply valve, a thermostatic regulator, reversely arranged overlapping compound levers operatively connected to said thermostatic regulator, a yoke operatively connected to said levers, pivotally mounted spring resisted levers carried thereby, toggle acting arms in operative engagement at their inner ends with the valve and interposed between the spring resisted levers and the valve to form a toggle acting connection between the valve and the levers.

1,683,173. TEMPORARY WELL CAPPER. GEORGE B. ERVIN, Weston, W. Va. Filed Feb. 16, 1927. Serial No. 168,679. 2 Claims. (Cl. 166—15.)



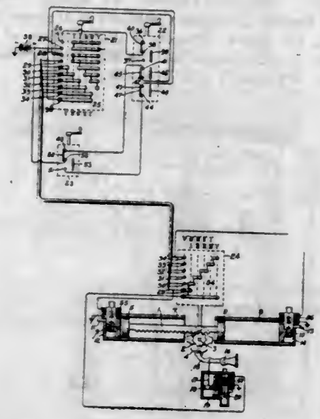
1. A capping device for well tubing including a body member, said body member provided with a central passage and one or more outlets, a valve seat formed on the inner wall of said passage, a valve for cooperation with said seat, a valve stem extending through the top of said body member, a packing gland for said stem, means for connecting said body member to the tubing, a nipple connected to the well casing, rods connected to said nipple, a yoke adapted to seat on said body member and provided with an opening to receive said packing gland, and means for securing the ends of said yoke to said rods.

1,683,174. SAW-SETTING ANVIL AND GAUGE. CARL EYRISH, Gig Harbor, Wash. Filed Nov. 16, 1925. Serial No. 69,471. 1 Claim. (Cl. 76—73.)



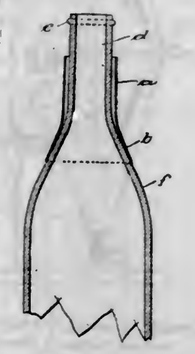
A saw-tooth setting anvil and gauge comprising an elongated anvil body having parallel end faces and provided at its opposite ends and at one side with anvil faces inclined at relatively different angles with respect to the respective end faces of the body and of different lengths, gauge points projecting from the other side of the body at the ends thereof with their relatively remote sides in a common plane with the respective end faces of the body, and another gauge point projecting from the last mentioned side of the body and of greater length than the first mentioned gauge point and located nearer that end of the body at which the less inclined and shorter anvil face is located.

1,683,175. SYSTEM OF CONTROL. EMIL FALCKE and KURT LEHMANN, Berlin, Germany, assignors to General Electric Company, a Corporation of New York. Filed May 17, 1923, Serial No. 639,605, and in Germany May 31, 1922. 5 Claims. (Cl. 121—40.)



1. A control system for a switch mechanism comprising a reciprocating element, means for reciprocating the same between predetermined limits, and electrically controlled means for stopping and locking said reciprocating member in any selected one of a plurality of definite intermediate positions comprising a position-selective controller, a star-wheel operable in accordance with the movement of said member between said positions, a member operable into and out of locking engagement with said star-wheel, and fluid pressure means having electroresponsive valve mechanism energized jointly in accordance with the positions of said selective controller and said reciprocating member for releasing and maintaining said locking member released until after movement of the reciprocating element to a selected one of said intermediate positions.

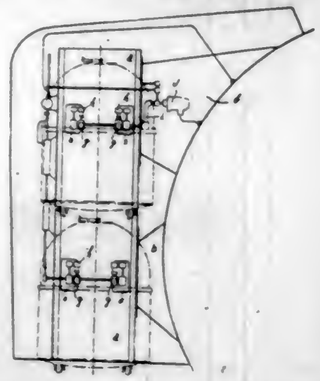
1,683,176. CATCH DROP FOR BOTTLES. JACOB FAULHABER, Siershahn im Westerwald, Germany. Filed Jan. 25, 1927, Serial No. 163,501, and in Germany Jan. 27, 1926. 1 Claim. (Cl. 215—100.)



A drip catcher for bottles, including a body formed of absorbent material and provided with a cylindrical portion having an internal diameter greater than the necks of con-

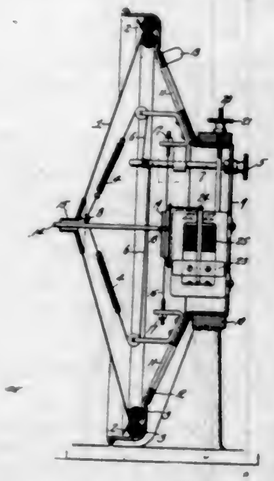
ventional types of bottles and a substantially funnel shaped portion carried by the cylindrical portion and adapted to partially overlie the body of the bottle.

1,683,177. MINE RECESS OF MINE-PLANTING SUBMARINES. FERNAND FENAUX, Le Havre, France, assignor to Societe Anonyme Chantiers & Ateliers Augustin Normand, Le Havre, France, a Corporation of France. Filed Feb. 7, 1927, Serial No. 166,532, and in France Feb. 18, 1926. 3 Claims. (Cl. 114—17.)



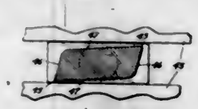
1. A mine recess for mine-planting submarines, provided between the heavy hull of the submarine and a light shell exterior to the hull, comprising a cross-partition between the hull and the shell, and a mine supporting beam fixed to the hull, distinct from the cross partition, and unaffected by the deformations of the cross partition.

1,683,178. CONE SPEAKER. WILLIAM E. GIBBS, East Orange, N. J. Filed Nov. 2, 1926. Serial No. 145,831. 10 Claims. (Cl. 181—31.)



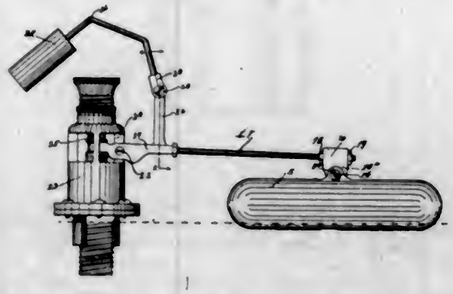
1. In a loud speaker, a conical vibratile member having an everted rim, a cushion support therefor in elastic engagement therewith and having contact both within and without the angle formed by said conical member and its everted portion, and elastic tension means applied axially to said conical member in opposition to the thrust of said cushion.

1,683,179. REVERSIBLE LOOM DOBBY KNIFE. JOHN W. GILES, Greer, S. C., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 25, 1926. Serial No. 111,658. 8 Claims. (Cl. 139—74.)



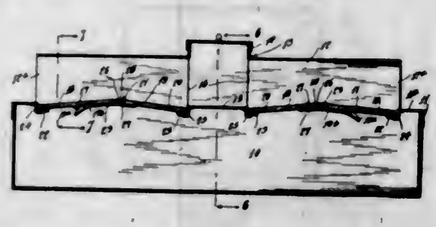
1. A reversible dobby knife for looms having dobby hooks, said knife having at the ends thereof aligning gudgeons and having between the gudgeons a plurality of knife edges to engage the hooks, said edges all being symmetrically disposed with respect to the axis of the gudgeons.

1,683,180. FLOAT-CONTROLLER VALVE. SAMUEL GREENHOUSE, Akron, Ohio. Filed Apr. 9, 1924. Serial No. 705,259. 7 Claims. (Cl. 137—104.)



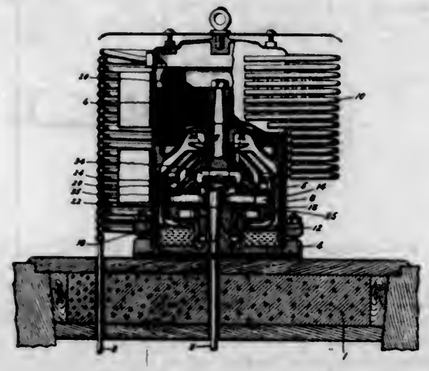
4. In a device of the class described, a lever, a float mounted on the outer end thereof, means to fulcrum said lever for movement on a horizontal axis, a vertical extension projecting upwardly from said lever at a point between the fulcrum and the float; an arm adjustably secured to the upper end of said extension, said arm projecting to a point on the other side of said fulcrum than the side on which the float is positioned and a weight secured to the free end of said arm.

1,683,181. AUTOMATIC ANIMAL TRAP. ARTHUR M. HAYMAKER, Pittsburgh, Pa. Filed Jan. 8, 1927. Serial No. 159,841. 6 Claims. (Cl. 43—69.)



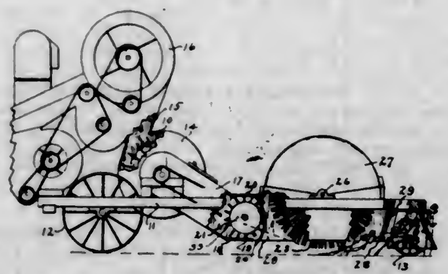
1. In a device of the type described, a base of receptacle form, a cover for the base, a tunnel carried by the base, a bait box in the tunnel, an opening in the cover within the tunnel between the entrance for the tunnel and the bait box, and entrapping mechanism within the confines of the cover opening for precipitating an animal into the base, said mechanism including a pair of pivoted doors which engage each other at their adjacent edges to prevent pivoting while the weight of an animal is entirely upon one of said doors, said door edges being freed from each other by the transfer of the weight of the animal to the second door.

1,683,182. COMPRESSOR. CHARLES L. HEISLER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 6, 1927. Serial No. 238,191. 9 Claims. (Cl. 230—177.)



1. A compressor comprising a fixed member, a plurality of cylinders rotatably mounted on said member, a piston in each cylinder, a fixed eccentric, means connecting the eccentric with the pistons, said fixed member and said cylinders being provided with communicating intake passages controlled by the relative movements of said pistons.

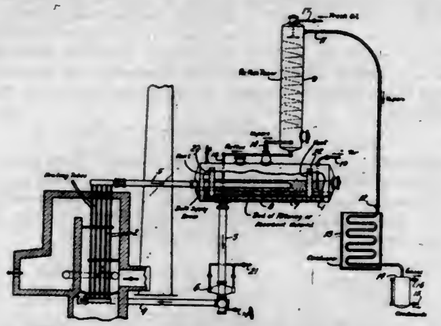
1,683,183. SEED HARVESTER. JOHN HEER, near Lebanon, Ind. Filed June 24, 1925. Serial No. 39,868. 9 Claims. (Cl. 56—128.)



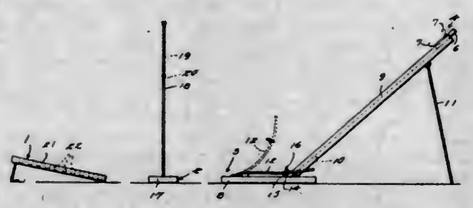
8. In a seed harvester, a stripping brush, a seed receiving compartment, means between said brush and said compartment for rejecting straw, and fan means for creating a blast of air from said brush through said straw rejecting means and into said seed receiving compartment.

1,683,184. APPARATUS FOR CRACKING HYDROCARBONS. EUGENE C. HERTHEL, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 11, 1927. Serial No. 198,246. 2 Claims. (Cl. 196—108.)

2. In a pressure still comprising a bulk supply drum in which a bed of filtering or absorbent material is arranged extending entirely across the drum and below the normal liquid level therein, a battery of heating tubes and connections for circulating oil from the space in the bulk supply drum beneath the bed of filtering or absorbent material through the battery of heating tubes and back to the space in the bulk supply drum above the bed of filtering or absorbent material, a reflux tower, connections for conducting vapors from the upper part of the bulk supply drum thereto and liquid return connections from the reflux tower discharging beneath the bed of filtering or absorbent material, venting means connecting the upper part of the space beneath the bed of filtering or absorbent material and the space in the upper part of the bulk supply drum above the normal liquid level therein.

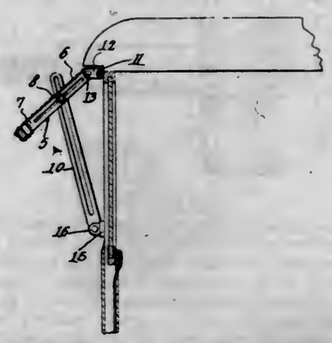


1,683,185. GAME APPARATUS. CHARLES A. HEWETT, Colorado, Tex. Filed July 30, 1927. Serial No. 209,579. 8 Claims. (Cl. 273—101.)



1. Game apparatus comprising a catapulting device, a piece adapted to be thrown by the catapulting device, said piece being weighted at one end, a target having openings adapted to receive the weighted end of the piece, and means interposed between the target and the catapult and in the approximate line of flight of said piece having coaction with said piece whereby when it is properly engaged thereby, it interrupts the piece in its flight.

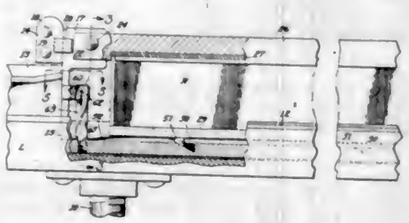
1,683,186. SUN SHIELD. JOSEPH DE WITT HIRES, Luxora, Ark., assignor to Hires Auto Awning Company, Incorporated, Blytheville, Ark. Filed Sept. 14, 1925. Serial No. 56,343. 1 Claim. (Cl. 156—15.)



In an awning structure, a bar having right angled ends formed with openings, said bar adapted to be secured adjacent to a window, said bar adapted to be secured between

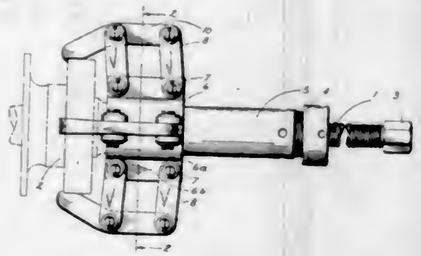
the bar and window, side members, pins extending through the end portions of the bar and side members to pivotally connect the side members to the bar, said side members having elongated openings, a bar connecting the free ends of the side members, said wire mesh member being stretched over the bar, adjusting arms pivotally supported adjacent to the side of the window and having elongated openings, bolts extending through the side members, and adjusting arms to adjustably connect the adjusting arms and side members.

1,683,187. ADJUSTABLE LOOM REED. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 18, 1927. Serial No. 227,018. 3 Claims. (Cl. 139—188.)



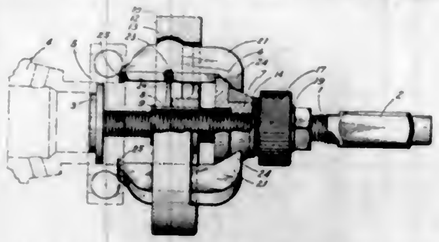
1. In a loom having a lay end and a reed, in combination, a flexible member underlying said reed and having a plurality of wedges formed thereon, a suspension member pivotally connected to said lay end, a back stay secured to said suspension member and receiving the lower end of said reed, said suspension member having recesses with inclined surfaces to receive said wedges on said flexible member, a projection extending from the suspension member and lying over an auxiliary recess lying thereunder in the back stay, and a positioning member attached to the projection and extending downwardly and into the auxiliary recess and having the lower end thereof stepped to cooperate with the flexible member, the latter to engage any one of the steps to vary the longitudinal position of the flexible member and wedges relatively to the inclined surfaces of the back stay.

1,683,188. BEARING PULLER. JAMES W. HOWELL, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 21, 1927. Serial No. 185,459. 6 Claims. (Cl. 39—85.)



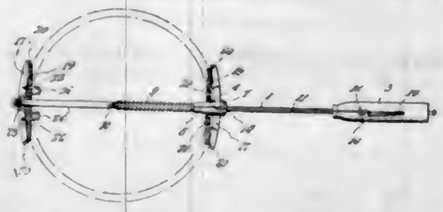
1. A tool comprising a screw, a nut threaded thereon, a tubular carrier carried by said nut, there being a plurality of longitudinally extending ribs upon the exterior of said carrier, two pivots extending transversely through each rib, links of equal length carried on each end of each pivot, a gripping arm carrying two pivots similarly spaced to those on each rib, the pivots of one gripping arm being carried by the outer ends of the links on one rib, whereby the gripping arms remain always parallel to the axis of the tool.

1,683,189. BEARING PULLER. JAMES W. HOWELL, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 23, 1927. Serial No. 185,932. 8 Claims. (Cl. 29—88.2.)



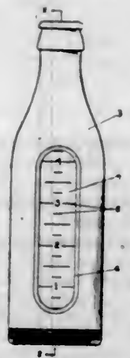
1. A tool comprising a chuck having a plurality of gripping jaws, cam-means for causing the jaws to exert gripping pressure on an object, a longitudinally movable pressure-exerting element engageable with the support of the object, and a second cam-means carried by said element causing the jaws to exert additional gripping pressure on the object when said element exerts pressure between the object and its support.

1,683,190. PAN LIFTER. VIRGIL D. HUGHEY, OSCAR R. MULLINS, and IRVIN M. HUGHEY, Calhoun, Ga. Filed July 7, 1927. Serial No. 204,056. 7 Claims. (Cl. 294—31.)



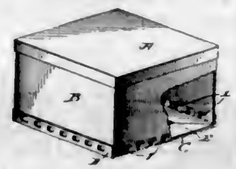
1. A pan lifter comprising a shank having a depending supporting arm at one end, a slide carried by said shank and movable longitudinally thereof, and pan-engaging jaws carried by said slide and arm, each jaw including a cross bar and yieldable pan-engaging means carried by the cross bar.

1,683,191. LIQUID GAUGE. GEORGE J. HUNTLEY, Baltimore, Md., assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 18, 1926. Serial No. 155,580. 3 Claims. (Cl. 73—54.)



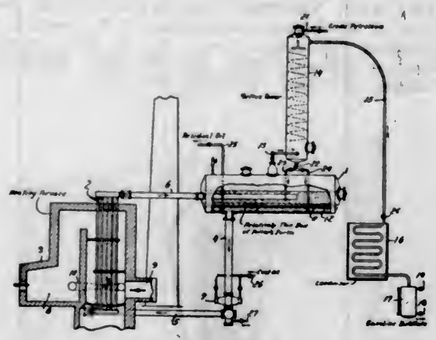
1. A measuring device, for use in testing charges delivered by packaging machines, comprising an outer non-breakable shell of the size and shape of the containers to be filled, and an inner transparent measuring cup, the shell being cut away to render the cup and its contents visible for reading.

1,683,192. BOX. JOSEPH G. HUYE, New Orleans, La. Filed July 26, 1924. Serial No. 728,394. 3 Claims. (Cl. 229—23.)



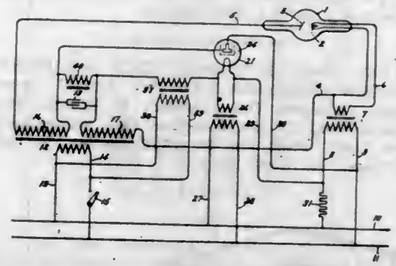
1. A receptacle comprising two paper board sections, one of said sections being provided with integral resilient tongues having abrupt free faces, and the other of said sections being formed with cooperating sockets having upper and lower edges, and means for holding said sections spread and resisting their deformation to maintain said tongues and sockets respectively, in correct, cooperating, interlocking relation, said tongues, in the assembled relation of the parts, extending at an inclination into the respective sockets, and each said tongue engaging with its free edge face the opposed upper edge of its cooperating socket and engaging with its laterally outer face the lower edge of said socket, at a point intermediate its point of connection to its corresponding section and its free edge face, to limit its lateral outward movement and brace it against strain and buckling under load.

1,683,193. DISTILLATION OF CRUDE PETROLEUM. EDWARD W. ISOM, Scarsdale, N. Y., and EUGENE C. HERTHEL, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 11, 1927. Serial No. 198,250. 3 Claims. (Cl. 196—59.)



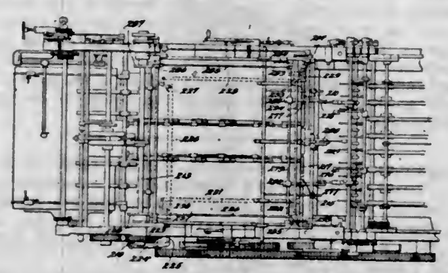
1. An improved method of producing gasoline from crude petroleum, which comprises maintaining a body of oil in a vaporizing zone and maintaining a bed of finely divided absorbent or filtering material within said body and extending entirely across it, circulating oil from said body from beneath said bed of finely divided material through heating tubes and back to the body of oil above said bed of finely divided material and heating it to a mild cracking temperature therein, supplying crude petroleum to the circulating body of oil, taking off vapors including vapors of the gasoline product from said vaporizing zone, and taking off residual oil from the body of oil from beneath said bed of finely divided material.

1,683,194. REGULATING SYSTEM FOR THERMIONIC DEVICES. WILLIAM K. KEARSLEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 24, 1927. Serial No. 178,106. 8 Claims. (Cl. 250—34.)



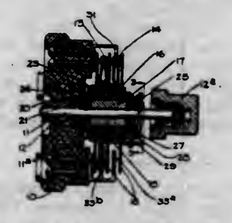
1. The combination of a main thermionic device, means for delivering impulses of current to the cathode of said device, thermionic regulating means for decreasing said current impulses, means for initiating the operation of said regulating means when the space current in said main thermionic device has reached a predetermined value thereby opposing further increase of space current.

1,683,195. SHEET-FEEDING MECHANISM. WILLIAM M. KELLY, Westfield, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Aug. 6, 1921, Serial No. 490,290, and in Great Britain July 27, 1922. Divided and this application filed Apr. 15, 1927. Serial No. 184,122. 27 Claims. (Cl. 271—S.)



1. In a sheet feeding mechanism, a side register device, a pivoted member carrying said register device and means to actuate said device including an element coaxial with the pivots of said member and movable in an axial direction.

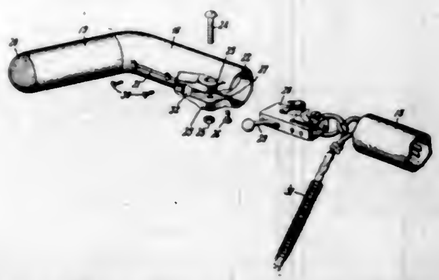
1,683,196. ELECTRIC HEATING SYSTEM. LESLIE A. KEMPTON, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Nov. 17, 1927. Serial No. 233,968. 6 Claims. (Cl. 219—20.)



4. The combination with a heating resistor provided with an intermediate connection point, of a supply source provided with two outside wires and a neutral wire, two rotary switching members, electrical connections whereby

one of said switching members connects one end of said resistor to an outside wire in any one of three positions, and electrical connections whereby the other switching member connects one end of said resistor to the other outside wire in one position, said intermediate point to said neutral wire in a second position, and one end of said resistor to said neutral point in a third position.

1,683,197. HANDLE CONSTRUCTION FOR ELECTRIC VACUUM CLEANERS AND THE LIKE. HENRY T. LANG, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed Jan. 26, 1927. Serial No. 163,786. 3 Claims. (Cl. 200—157.)



1. In a handle assembly of the character described, the combination of a tube, a switch casing, said casing having an open end in which the end of the tube is located and being split from said open end to a point adjacent to its other end to form a longitudinally extending groove, a switch in the casing, the operating handle of the switch extending out through said groove, a connector cord which extends through the tube, is connected to said switch and projects out through said groove, a spring surrounding said cord, and means for clamping the end of the spring in said groove and the split end of the casing to the end of the tube.

1,683,198. PROCESS FOR THE EXTRACTION OF BUTYRIC ACID AND ITS HOMOLOGUES. JACQUES LEFRANC, Paris, France, assignor to Societe des Brevets Etrangers Lefranc & Cie., Paris, France. Filed Jan. 25, 1927, Serial No. 163,571, and in France Aug. 27, 1926. 6 Claims. (Cl. 260—122.)

1. A process of extraction of aliphatic acids from their alkali and alkali-earth salts which consists in treating said salts with hydrochloric acid, the aliphatic salt being in slight excess, in filtering the resulting liquid whereby the excess of aliphatic salt is recovered and in separating the lower layer formed by the solution of chloride produced, from the major part of the insoluble aliphatic acids forming the upper layer.

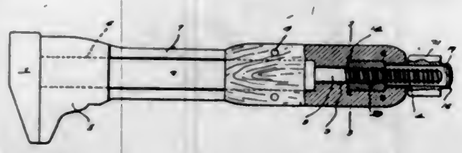
1,683,199. ARTIFICIAL THREAD AND PROCESS FOR MAKING SAME. LEON LILIENFELD, Vienna, Austria. Filed Dec. 23, 1926, Serial No. 156,751, and in Austria June 20, 1925. 32 Claims. (Cl. 18—54.)

1. Process for manufacturing artificial threads of high dry tenacity, exceeding 2 grammes per denier, from viscose, which comprises causing a viscose to pass through suitably formed openings into contact with a liquid which contains not less than about 65 per cent of sulphuric acid monohydrate.

1,683,200. ARTIFICIAL MATERIAL AND PROCESS FOR MAKING SAME. LEON LILIENFELD, Vienna, Austria. Filed June 3, 1926, Serial No. 113,583, and in Austria June 20, 1925. Renewed July 26, 1928. 20 Claims. (Cl. 18—54.)

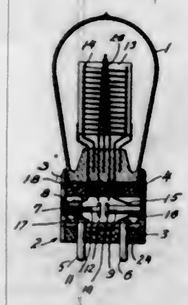
1. Process for manufacturing artificial materials from viscose, which comprises bringing a viscose containing not more than 5 per cent of caustic alkali (calculated as NaOH), into the form of an artificial material and acting upon it with sulphuric acid, containing not less than 45 but less than 55 per cent of sulphuric acid monohydrate.

1,683,201. SLIDING-JAW WRENCH. EDWARD LINDQUIST, Omaha, Nebr. Filed Jan. 25, 1927. Serial No. 163,405. 1 Claim. (Cl. 81—169.)



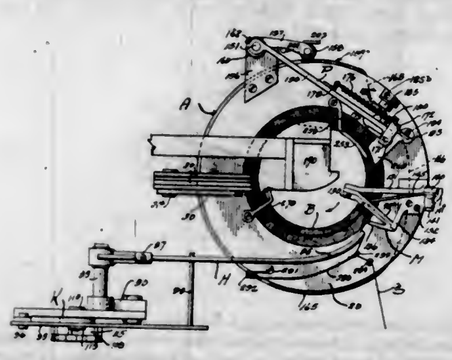
A wrench consisting essentially of a sliding jaw having an integral shank provided at its rear end with a reduced and threaded portion, a body including a jaw with a longitudinal passage therein through which said shank extends, longitudinal spaced bars extending rearwardly from last named jaw and provided with rear internally recessed portions, and an intermediate portion joining the bars immediately in front of said recesses and extending laterally in opposite directions from the plane of the bars and having a longitudinal passage through it, sections of material different from that of the body, arranged in front and rear of the laterally extending parts of the intermediate portion of the body and abutting against and arranged flush with said lateral parts and connected to opposite sides of the longitudinal bars, and an adjusting member journaled in the longitudinal bars of the body and in the rear sections of material different from that of the body and extending rearwardly beyond the longitudinal bars and said sections, and having a flange at its inner end disposed in the said recesses of the body bars and also having a threaded portion receiving and engaging the thread on the shank.

1,683,202. ELECTRON-DISCHARGE DEVICE. WILLIAM A. MACDONALD, Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Apr. 9, 1926. Serial No. 100,826. 7 Claims. (Cl. 250—27.5.)



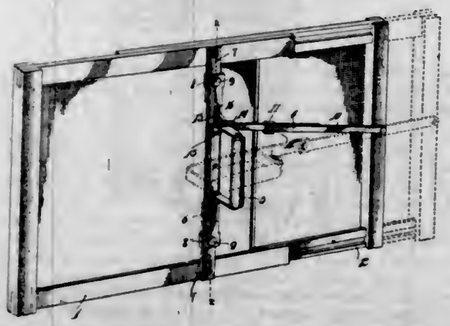
1. In an electron discharge device including more than two electrodes enclosed in an evacuated envelope, a plurality of means ontside said envelope mechanically attached to said device and directly connected to two of said electrodes for adjusting the effective electrostatic capacity between said two electrodes within capacity values of an order of magnitude commensurate with the value of capacity naturally inherent between said electrodes, at least one of said means being manually adjustable for varying said effective electrostatic capacity.

1,683,203. CIRCULAR-KNITTING MACHINE. HARRY MCADAMS, Philadelphia, Pa., assignor of one-half to Jesse W. Starr, 3d, Atlantic City, N. J. Filed Sept. 18, 1926. Serial No. 136,276. 20 Claims. (Cl. 66—49.)



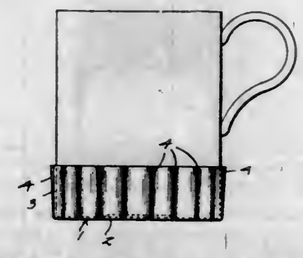
1. In a knitting machine, a rotary needle cylinder, needles carried thereby for receiving a body yarn and including a set of needles for receiving a splice yarn, means for directing a body yarn to the needles of the cylinder, means for supporting a splice yarn, means for operably dividing the splice yarn receiving needles from the remainder of the needles, and means cooperating with said last mentioned means for guiding and controlling the splice yarn with respect to said splice yarn needles to entirely knit said splice yarn in a continuous knitted relation with the body yarn along a splice section which extends about part only of the circumference of the article being knit, and without float portions, during full rotary knitting action on the article while the cylinder is rotating.

1,683,204. FLY SCREEN. EDGAR T. MILLS, Millville, W. Va. Filed Oct. 12, 1926. Serial No. 141,160. 5 Claims. (Cl. 156—38.)



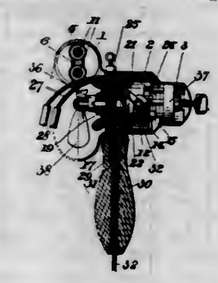
1. Operating mechanism for an extensible screen comprising a support adapted to be secured to one section of a screen in a vertical position, a handle pivoted to said support intermediate its length, a link having one end pivoted to said handle adjacent one end thereof and adapted to extend therefrom longitudinally of the screen with its other end pivoted to another section of the screen, and a latch carried by the handle to releasably secure the handle in a set position with the screen adjusted.

1,683,205. CUP-DRIP ATTACHMENT. EDWARD S. PACKARD, Holyoke, Mass. Filed Aug. 11, 1927. Serial No. 212,313. 3 Claims. (Cl. 215—100.)



1. A cup drip attachment comprising a blank of porous material originally in the form of a disk, said blank having central and marginal areas, the marginal area being provided with creases radially disposed with relation to the blank, and a coating of adhesive applied to the central area of the blank and extended in radial lines across the marginal area of the blank.

1,683,206. SURGICAL MOTOR. ADOLF PFEIFFER, Berlin, Germany, assignor to the Firm Elektrizitäts-Gesellschaft "Sanitas" m. b. H., Berlin, Germany. Filed June 27, 1925, Serial No. 40,070, and in Germany July 8, 1924. 9 Claims. (Cl. 172—36.)



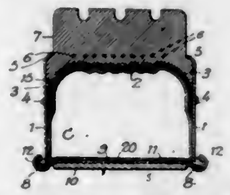
1. The combination, with a casing, an electromotor mounted therein, a supporting plate fixed to the inner wall of said casing and having inwardly projecting lugs, and sleeves and plugs provided respectively on said lugs and motor, said sleeves and plugs opposing each other in the direction of insertion of the motor so as to make direct contact with each other when inserting the motor.

1,683,207. FLEXIBLE INDEX STRIP. FRANK D. POWELL, Chicago, Ill., assignor to Acme Card System Company, Chicago, Ill., a Corporation of Illinois. Original application filed July 14, 1922, Serial No. 574,913. Divided and this application filed July 2, 1926. Serial No. 120,020. 4 Claims. (Cl. 40—2.)



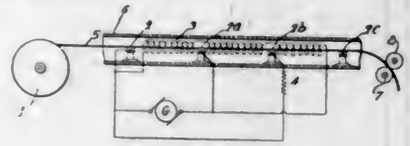
1. Separated flexible index strips comprising strips of wood faced with a sheet material which will take print readily.

1,683,208. PNEUMATIC TIRE. JOHN POWELL, Carlton, Victoria, Australia. Filed Dec. 17, 1926, Serial No. 155,445, and in Australia Dec. 23, 1925. 2 Claims. (Cl. 152—33.)



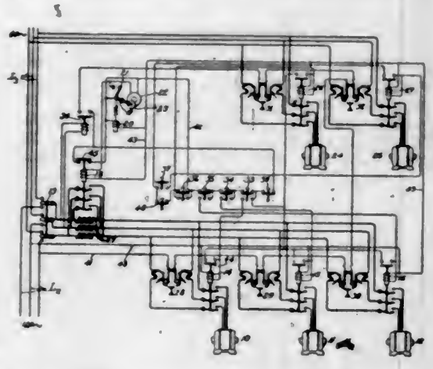
1. A pneumatic tire comprising a casing approximately U-shape in cross-section consisting of a peripheral strip having inwardly bent edges fixed to the sides of said casing, said sides extending outward beyond the strip and curved inwardly at their extremities, a tread fitted to said strip and sides, a pneumatic tube within the casing, and a wheel rim slightly narrower than the width of the casing to prevent undue lateral movement thereof and on which said tube is seated.

1,683,209. METHOD FOR INCREASING THE CONDUCTIVITY OF METALS. SAMUEL RUBEN New York, N. Y. Filed Feb. 15, 1926, Serial No. 88,433. Renewed May 12, 1927. 6 Claims. (Cl. 148—10.)



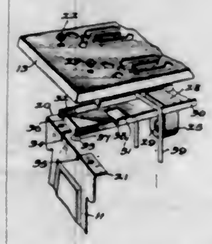
1. The method of increasing the conductivity of a metal body which consists in heating said body to a temperature below its melting point by an electric current discharge therethrough, in an electromagnetic field parallel to the direction of said discharge, and cooling said body in an electromagnetic field parallel to the direction of said discharge.

1,683,210. MOTOR-CONTROL APPARATUS. CLAUDE C. RUNNER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 6, 1925. Serial No. 48,636. 12 Claims. (Cl. 172—179.)



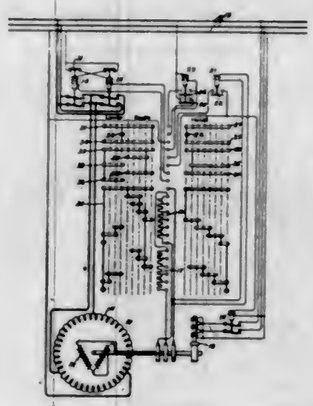
6. In a motor control system, the combination with a plurality of electric motors having a common supply circuit, of a common current limiting means connected in the common supply circuit for the motors, switch mechanism for successively connecting the motors to said common supply circuit, and cooperating switch mechanism and connections whereby the said current limiting means is inserted in the supply circuit when each motor is connected thereto.

1,683,211. ELECTRIC HEATER. ALBERT H. SIMMONS, Wheaton, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed Sept. 25, 1925. Serial No. 58,522. 9 Claims. (Cl. 219—19.)



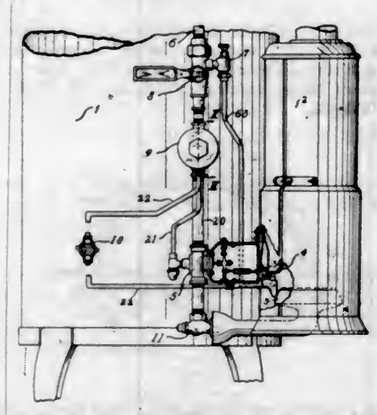
6. A toaster comprising a heating element, a pair of slice holders pivoted on opposite sides of said heating element, a compression spring, and connections between the ends of said spring and said slice holders whereby said spring is supported at its ends solely by said slice holders, said connections being at such points with relation to the pivots of said slice holders that said slice holders are secured by said spring in either one of two positions.

1,683,212. MOTOR-CONTROL SYSTEM. HANS TENGSTRÖM and KURT BÜHRING, Berlin, Germany, assignors to General Electric Company, a Corporation of New York. Filed Mar. 9, 1925, Serial No. 14,276, and in Germany Mar. 31, 1924. 8 Claims. (Cl. 172—152.)



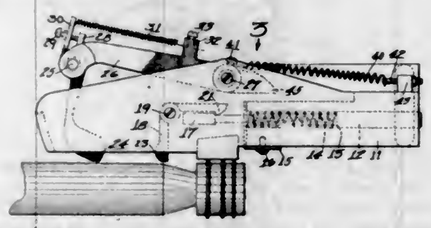
1. In a motor control system, the combination with a reversible electric motor, of switch mechanism for controlling the power connections of the motor to reverse the torque thereof when the motor is rotating in one direction, a brake for the motor, and electro-responsive means in circuit with the motor for applying the brake upon a predetermined reduction in the speed of rotation of the motor in said one direction to thereby insure against the reversed motor torque causing rotation of the motor in the other direction, said brake being applied while the power connections of the motor are maintained by the switch mechanism.

1,683,213. FLUID-FUEL-CONTROL SYSTEM. EDMUND J. TE PAS, Lakewood, Ohio, assignor to The Patrol Valve Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 12, 1926. Serial No. 121,910. 20 Claims. (Cl. 236—33.)



1. In a valve, a valve casing with passages arranged therein, a valve seat formed in said casing, a partition element providing a second valve seat and housed in said casing, a pair of tandem arranged valve heads coacting with said valve seats, and means to actuate the valve heads.

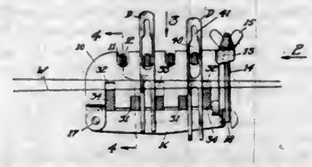
1,683,214. WEFT DETECTOR IN REGULARLY-MOVING TRANSFERRER. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 3, 1926. Serial No. 120,491. 10 Claims. (Cl. 139—271.)



1. In a weft detector for looms having a surface to be detected, a side slipping weft detector movable along the surface to be detected to give an indication of weft exhaustion, a carrier for the detector with regard to which the latter is movable angularly, a supporting structure on which the carrier is mounted and with respect to which the same is movable, means to move the supporting structure toward the surface to be detected and to arrest movement thereof toward the surface, and resilient means to hold the carrier in normal position away from the surface, the carrier and detector being moved toward the surface by the structure and overcoming the resilient means solely by the inertia force of said carrier and detector and tending to have an indicating movement when the motion of the structure is arrested.

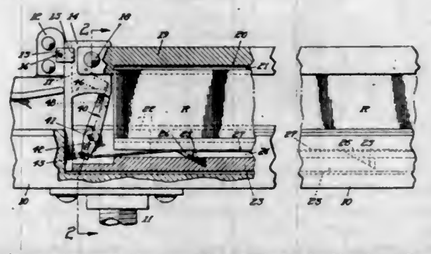
1,683,215. SEPARATOR FOR WARP STOP MOTIONS. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 27, 1927. Serial No. 194,804. 8 Claims. (Cl. 139—369.)

1. A separator for high outer and low intermediate separator bars which lie below the outer bars and oscillating detectors of a warp stop motion, said separator having a body portion with provision for clamping the same to



certain of the intermediate separator bars and having provision for loosely guiding the outer separator bars which extend above the bars to which the separator is clamped.

1,683,216. REED ADJUSTMENT FOR LOOMS. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 25, 1927. Serial No. 235,576. 3 Claims. (Cl. 139—188.)



1. In a loom, a lay provided with an inclined surface, a reed, a member having an inclined face in contact with the inclined surface on the lay, and affording support for the reed, a flexible element connected to the member and movable relatively to the lay, a lever pivotally mounted with respect to the lay and connected to the flexible element, and means to hold said lever in any one of a plurality of angular positions, whereby the element may be retained in different positions relatively to the lay to give the reed a plurality of vertical positions.

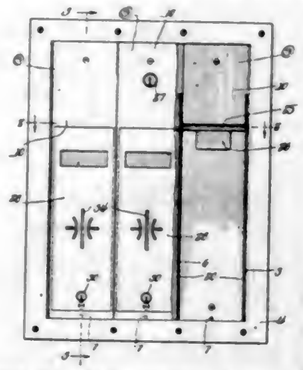
1,683,217. MAIL BOX. JAMES H. WARD, Jr., Buchanan, Mich., assignor to James H. Ward & Son, Inc., Buchanan, Mich., a Corporation of Indiana. Filed Apr. 21, 1926. Serial No. 103,445. 7 Claims. (Cl. 232—25.)



1. In a mail box, in combination, a bottom member, side walls and partition walls forming a plurality of compartments, a front closure member, said closure member being

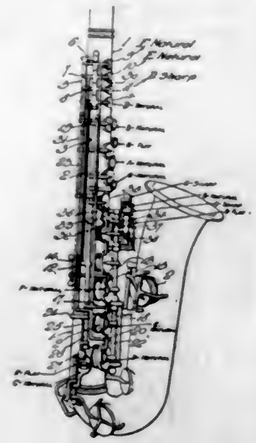
swingingly and removably mounted with relation to said bottom wall, and chute walls swingingly mounted in parallel relationship with said first mentioned walls, said chute walls being removably connected to said closure member and having limited sliding movement with relation to said first mentioned walls, said front closure member being provided with individual doors permitting access to the several compartments.

1,683,218. MAIL BOX. JAMES H. WARD, Jr., Buchanan, Mich., assignor to James H. Ward & Son, Inc., Buchanan, Mich., a Corporation of Indiana. Filed July 21, 1927. Serial No. 207,328. 10 Claims. (Cl. 232—25.)



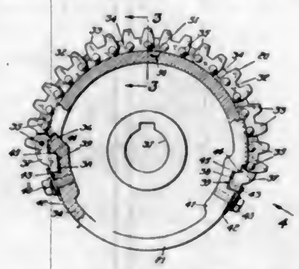
1. A closure comprising a plurality of elongated members having their side edge portions provided with flanges, said flanges being provided with two sets of aligned apertures, rods extending through said sets of apertures to hold said members in one plane, and gripping members engaging adjacent flanges of neighboring members to hold said members against displacement in said plane.

1,683,219. SAXOPHONE. HARRY J. WATERS, San Francisco, Calif. Filed Sept. 17, 1924. Serial No. 738,229. 5 Claims. (Cl. 84—385.)



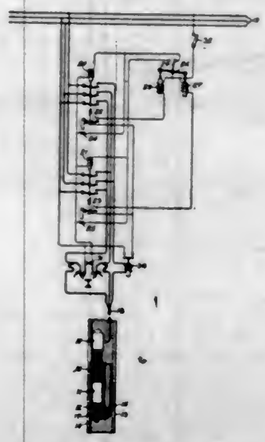
1. A saxophone embodying a mechanism of the class described, said mechanism including operating means for the valve utilized for producing the tone high-D, said operating means comprising a rotatably mounted shaft connected at one end to the valve and provided at its opposite end with a sleeve, a finger-piece provided with a second sleeve having its inner end arranged in abutting relation with the corresponding end of the first named sleeve, a needle spring carried by said finger-piece, and a hook carried by the first named sleeve, the free end of said spring being connected with said hook.

1,683,220. CYLINDER FOR KNOWLES HEADS. WILLIAM M. WATTIE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 25, 1927. Serial No. 215,495. 12 Claims. (Cl. 139—77.)



1. In a pattern mechanism for a loom having a toothed element to be rotated, a rotatable driving member, and a chain secured to said member and rotating therewith and covering a portion of said member, said chain having links provided with teeth to be operatively related to the element to rotate the same.

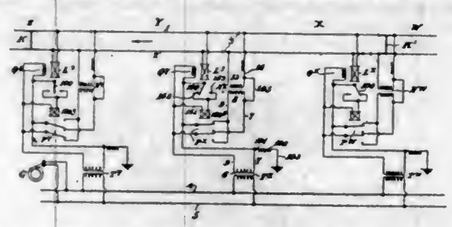
1,683,221. MOTOR CONTROL. LOUIS J. WEBER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 15, 1926. Serial No. 122,726. 13 Claims. (Cl. 172—240.)



1. The combination with an electric motor, of means for automatically reversing the operation of the electric motor comprising a device for mechanically retarding the motor to cause the motor current to increase and an electromagnetically controlled reversing switch responsive to such increase in current.

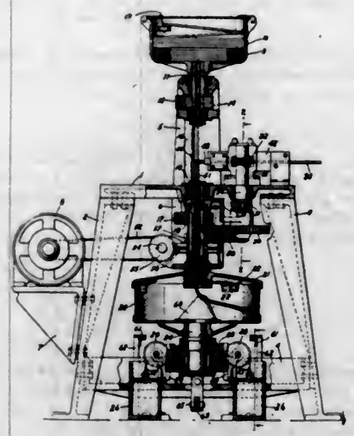
1,683,222. TRACK-CIRCUIT SYSTEM. ABBA G. WILLIAMSON, Carnegie, Pa., assignor to Pittsburgh Train Control Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 5, 1922. Serial No. 549,662. Renewed Feb. 3, 1928. 6 Claims. (Cl. 246—34.)

1. A track circuit system comprising: traffic rails divided into blocks, a circuit including both rails of a block, a circuit between ground and at least one of said rails for maintaining voltage above ground potential on



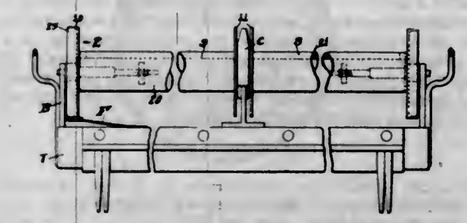
at least one of said rails, and a pole changer controlled from a preceding block and controlling both circuits of the local block.

1,683,223. METAL-TUBING MACHINE. CHARLES E. WILSON and HENRY HUENERKOPF, Bridgeport, Conn., assignors to General Electric Company, a Corporation of New York. Filed Apr. 30, 1925. Serial No. 27,034. 9 Claims. (Cl. 113—35.)



1. A metal tubing machine comprising pan means for supporting a loose coil of core material so as to be freely paid out therefrom, means freely to form a metal strip helically into a flexible tube about said core, power means to propel the metal strip into and through said tube forming means, and means freely to receive the product from the said forming means.

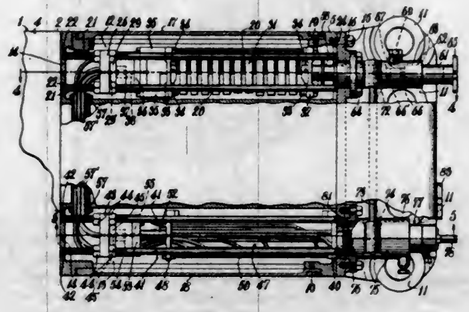
1,683,224. SPOOL FOR AXMINSTER LOOMS. WILLIAM H. WILSON, Burlington, Vt., assignor to Vermont Spool & Bobbin Co., Burlington, Vt., a Corporation of Vermont. Filed July 5, 1927. Serial No. 203,446. 4 Claims. (Cl. 242—124.)



1. In an Axminster loom spool having a barrel with a longitudinal slot therein, a head having an opening to register with the slot, and interengaging grooves and

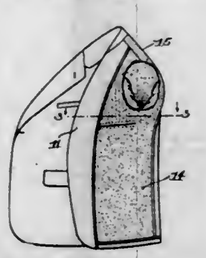
corrugations on the barrel and head, respectively, ears extending from the head on opposite sides of the opening and located to align with certain of the grooves in the barrel to be guided with respect to the slot so that one ear lies on each side of the slot.

1,683,225. CONTROLLING APPARATUS. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 31, 1924. Serial No. 747,065. 34 Claims. (Cl. 262—30.)



1. In an electric controlling mechanism, a casing having a chamber, supporting members disposed within said chamber, electrical controlling apparatus disposed in said chamber comprising relatively movable elements for effecting current control and end brackets, and means for slidably guiding said apparatus as a whole along said supporting members with said brackets engaging the latter.

1,683,226. GARMENT CONSTRUCTION. NICHOLAS ZUCK, Rochester, N. Y. Filed Apr. 23, 1927. Serial No. 186,065. 1 Claim. (Cl. 2—272.)

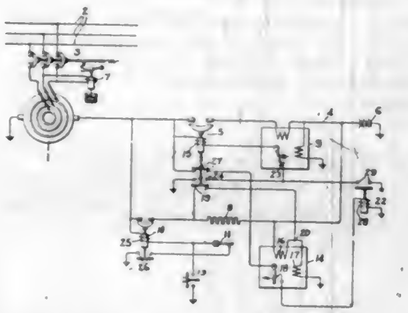


In a coat or similar garment, a coat front comprising a felt portion, one side of which is positioned adjacent to the garment fabric, a piece of haircloth positioned adjacent to the other side of the felt portion, and a single layer of stiffening material adjacent to said haircloth, said single layer of stiffening material being so constructed as to function both as a stiffener and also as a lining for the coat.

1,683,227. ELECTRICAL-DISTRIBUTION SYSTEM. ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 9, 1925. Serial No. 7,776. 7 Claims. (Cl. 175—294.)

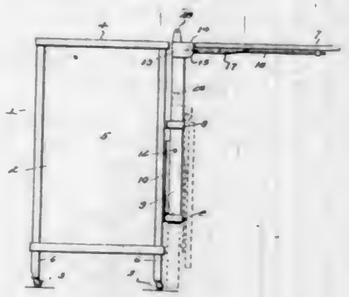
1. In a system of electrical distribution, a supply circuit, a load circuit arranged to be supplied with current by a plurality of sources, a rotary transformer for transferring electrical energy from one of said circuits to the other, current limiting means, means responsive to the

direction of the current flowing between said transformer and said load circuit for effecting the connection of said current limiting means in series between said rotary transformer and one of said circuits when said rotary transformer transfers energy from said load circuit to



said supply circuit, and a relay comprising a winding connected in parallel with said current limiting means for effecting the connection of said one of said circuits directly to said rotary converter when said rotary converter is in a condition to transfer energy from said supply circuit to said load circuit.

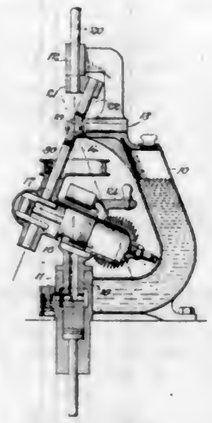
1,683,228. ADJUSTABLE SHELF SUPPORT. EDWARD R. ARMSTRONG, Columbus, Ohio, assignor to F. O. Schoedinger, Columbus, Ohio. Filed Dec. 10, 1926. Serial No. 153,789. 3 Claims. (Cl. 45—51.)



3. In apparatus of the character set forth, a support including a vertical side wall, a standard slidably mounted in bearings carried by said wall, a shelf carried by the upper end of said standard, a stationary rack bar carried by the side wall of said support, a pinion carried by the standard and mounted for engagement with said rack bar, a spring pressed latch engaging with said pinion and having an operating handle located above said standard, and a lifting handle secured to the upper end of said standard located above and adjacent to the operating handle of said spring pressed latch.

1,683,229. EXPLOSIVE ENGINE OF THE ROTATING-CYLINDER TYPE. DORSEY F. ASBURY, Washington, D. C. Filed May 13, 1921. Serial No. 469,141. 10 Claims. (Cl. 121—58.)

8. An engine of the reciprocating piston type including a cylinder, means to cause said cylinder to rotate about a fixed axis during operation of the engine, the axis of the bore of said cylinder being disposed at an angle between 0 and 90° to its axis of rotation and the axis of rotation of said cylinder intersecting the axis of its bore between the ends of the cylinder, whereby different points along the length of the cylinder travel in different planes during its rotation and whereby the centrifugal force



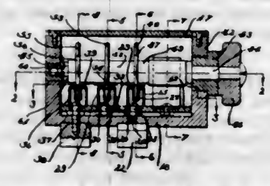
set up in one end of the cylinder during its rotation is substantially balanced by the centrifugal force set up in the other end thereof.

1,683,230. HIGH-FREQUENCY SIGNALING SYSTEM. WALTER R. G. BAKER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 5, 1926. Serial No. 106,966. 4 Claims. (Cl. 179—171.)

1. The combination in a high frequency signaling system of a source of high frequency current of substantially a single frequency, a plurality of amplifying units which are excited from said source, the output circuit of each of said amplifying units being tuned to the frequency of said high frequency current, a transmitting circuit and an independent coupling between each of said output circuits and said transmitting circuit.

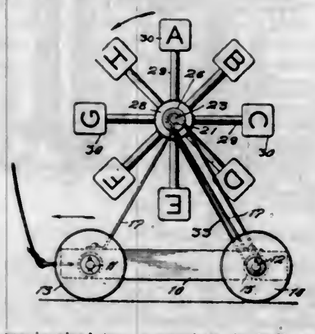
1,683,231. SWITCH. ALEXANDER H. BAYNE, Windsor, Ontario, Canada. Filed Feb. 19, 1927. Serial No. 169,436. 5 Claims. (Cl. 200—6.)

5. A switch comprising: a rotatable shaft; a plurality of pairs of stationary contacts, each contact being doubled upon itself, the doubled over portion being spaced from the main body and faced inwardly toward the cooperating contact which is spaced therefrom; a plurality of discs mounted on and rotatable with said shaft; and a contact mounted on opposite sides of each of said discs and extending around its periphery for a portion of its length,



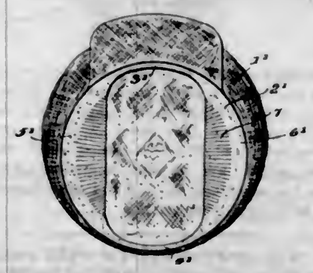
and adapted, upon rotation of said shaft to a predetermined position, for engaging, at its opposite faces, the doubled over portion of each of a pair of said contacts and closing the circuit therebetween, the contacts on the faces of said discs being varisized and staggered in circumferential relation.

1,683,232. MECHANICAL TOY. JOHN JACOB BECKER, New York, N. Y. Filed June 1, 1926. Serial No. 112,925. 2 Claims. (Cl. 46—48.)



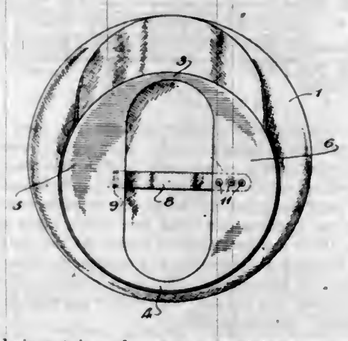
1. In a mechanical toy, a carriage including a base, an axle and wheels on the axle, brackets secured to and rising from said base, a shaft journaled in the brackets, a rotor fixedly secured to said shaft and including a series of radially disposed arms having enlargements at their outer ends and said enlargements being cubical in shape presenting flat faces having educational characters thereon, such as letters and numerals, and means whereby to rotate the rotor when the carriage is rolled over a surface.

1,683,233. HEAD COVERING. HAROLD T. BLUM, Glenmont, Ohio. Filed June 23, 1927. Serial No. 201,002. 2 Claims. (Cl. 2—190.)



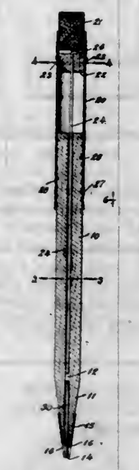
1. A sweat band for head coverings comprising a body having comparatively wide opposite side portions and comparatively narrow forward and rearward portions, said body being adapted to have snug engagement throughout its area with the head of a wearer.

1,683,234. SWEATBAND FOR HEAD COVERINGS. HAROLD T. BLUM, Glenmont, Ohio. Original application filed June 23, 1927, Serial No. 201,002. Divided and this application filed Sept. 19, 1927. Serial No. 220,547. 3 Claims. (Cl. 2—190.)



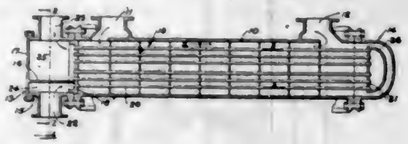
1. A hair retainer for caps comprising a dome shaped body portion, means for attaching the lower edges of said body portion to the cap whereby it will extend within the head receiving opening thereof, the medial part of said body portion being cut away to form a pair of oppositely disposed flanges and an adjustable strap extending across the cut away portion of said body and connecting said flanges.

1,683,235. PENCIL. CLAES WM. BOMAN, Brooklyn, N. Y., and CHARLES KAISER, Carlstadt, N. J., assignees to Eagle Pencil Company, New York, N. Y., a Corporation of Delaware. Filed May 17, 1922. Serial No. 561,556. 4 Claims. (Cl. 120—18.)



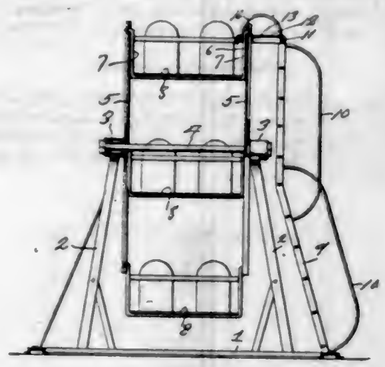
3. A propelling pencil, comprising a solid wooden pencil-body having a small axial bore therethrough and having a conical portion at its front end, a thin-walled conical ferrule permanently seated on the conical portion of said body to compress the front end thereof and reduce the diameter of the end of the bore, said ferrule extending slightly beyond the end of the body and having in its apex a hole aligned with the bore in the body, and means to engage the rear end of a lead in the bore and force it forward and through the hole in the ferrule, the main portion of the bore being of a size to permit the lead to slide freely therethrough and the reduced end of the bore being of a size to lightly grip the lead, and the hole in the ferrule being of a size to support the lead.

1,683,236. HEAT-EXCHANGING APPARATUS. CARL F. BRAUN, Pasadena, Calif. Filed Aug. 31, 1926. Serial No. 132,694. 1 Claim. (Cl. 257—236.)



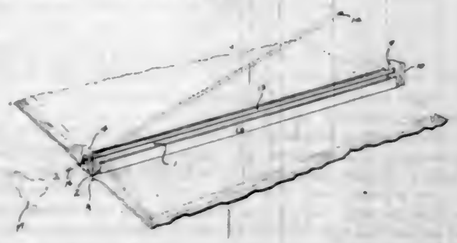
In a device of the character described, a shell through which a fluid flows longitudinally from end to end of the shell and returns in a single pass in each direction, a tube nest extending longitudinally of the shell and through which a cooling medium flows, means at the opposite ends of the tube nest for dividing the tubes into three times as many groups as there are longitudinal passes of the fluid in the shell and creating a circulation of a cooling medium through said tubes in a manner to establish a countercurrent flow of the two fluids in a ratio of one portion parallel current to two portions countercurrent.

1,683,237. LAWN SWING. CHESTER H. BROWN, Kopperl, Tex. Filed June 25, 1925. Serial No. 39,484. 1 Claim. (Cl. 272—49.)



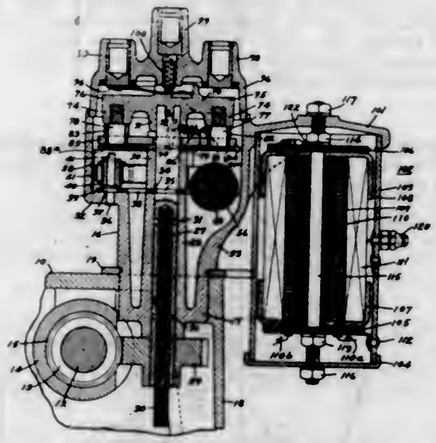
The combination with a Ferris wheel having seat frames pivotally connected to arms of the wheel, a ladder adjacent one side of said wheel, of a platform hingedly connected to the ladder, walls carried by said platform and formed by an opening therein, said walls of the platform formed by the opening engaging one of the arms of the wheel and the pivoted seat frame carried thereby to the inside of the arm and at opposite sides of the pivoted seat frame pivotal point.

1,683,238. TEMPORARY BINDER. ANTONE J. CARDOZA, Oakland Calif. Filed Oct. 31, 1927. Serial No. 229,922. 6 Claims. (Cl. 129—38.)



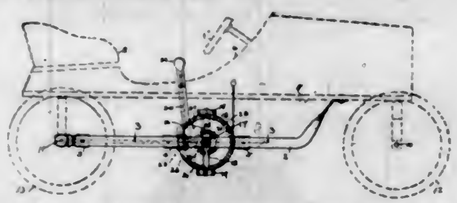
1. A binder device, comprising a longitudinal channel adapted to receive the fold of a publication, upwardly extending perforated lugs at each of the opposing ends of said channel, a rod extending through openings in both of said lugs and adapted to be removably engaged thereby in such manner that the fold of the publication is held by said rod within the channel, said rod having one end removably engaged in the opening in one lug and the other end of said rod being headed so as to tightly impinge against the other of said lugs when the opposite end of the rod is tightly held by the first mentioned lug.

1,683,239. IGNITION APPARATUS. WILLIAM A. CHRYST, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Original application filed May 23, 1922, Serial No. 563,145. Divided and this application filed May 26, 1925, Serial No. 33,072. Renewed Apr. 11, 1927. 7 Claims. (Cl. 123—148.)



1. The combination with an ignition distributor of a laterally extending bracket integral therewith; a vertical ignition coil mounted on the underside of the bracket, the bracket forming an end enclosure for the coil; and an axial bolt in the coil and secured to the bracket, the coil being separated from the bracket by detaching the bolt from the latter.

1,683,240. CHILD'S VEHICLE. BENJAMIN F. COLVIN, Fremont, Ohio. Filed Nov. 9, 1925. Serial No. 67,763. 3 Claims. (Cl. 208—55.)



1. In a child's vehicle, the combination of a frame, wheels supporting the same, a shaft connected to drive certain of said wheels, a pedal shaft, freely engageable gearing comprising drive gears on said pedal shaft and driven gears slidably connected on said first-named shaft, the teeth of said gears having tapered and sloping lead-in portions, and means for selectively sliding the driven gears into engagement with the drive gears.

1,683,241. FILLING CONTAINER WITH PRESERVING, FLAVORING, AND CONDIMENT LIQUIDS. PEIRCE CUTLER, Burlingame, Calif., assignor to Edward J. Judge, Alameda, Calif. Filed Apr. 9, 1927. Serial No. 182,542. 6 Claims. (Cl. 99—8.)

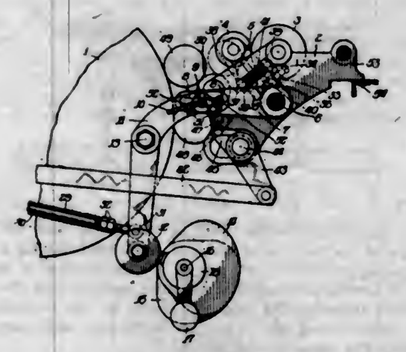
6. The improvement in the art of filling product-containers with preserving, flavoring and condiment liquids, which consists in supplying the container with a concentrated solution of said liquid; subjecting said container with its product-content and concentrated liquid solution to the heat of a first cook; filling in on top of the concentrated solution and product-content in the container a volume of hot reducing liquid capable when mixed with said solution of bringing the liquid-content of the container to the proper strength; then immediately hermetically sealing the container; and finally subjecting the sealed container to the heat of the second or final cook.

1,683,242. SCORE DEVICE. EMIL DEISTER, Jr., Fort Wayne, Ind. Filed Jan. 29, 1927. Serial No. 164,404. 3 Claims. (Cl. 273—148.)



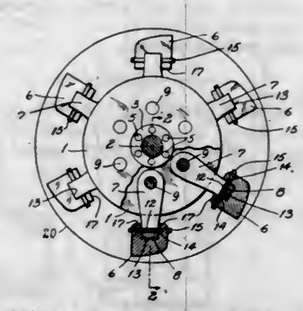
1. A card game scoring device comprising a cylindrical member, a table on the member consisting of a plurality of peripheral columns of indicia, the items of which are also arranged in longitudinal parallel rows, one of said columns containing a sequence of numerals to indicate the number of tricks bid, others of said columns indicating the several card suits and the remainder of said columns indicating the values of the said tricks according to the said suits, and an apertured sleeve slidably and rotatably mounted on the member and adapted to be adjusted to indicate any suit and to cause the aperture to expose the value of the number of tricks bid in said suit.

1,683,243. PRINTING-PRESS DUCTOR MECHANISM. JOSEPH R. BLAINE, Oak Park, Ill., assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1927. Serial No. 171,510. 22 Claims. (Cl. 101—148.)



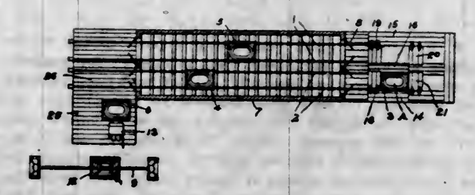
1. In lithographic printing press dampening mechanism, the combination of a water fountain, a fountain roller, water distributing means, a ductor roller intermittently engaging said fountain roller and said distributing means for conveying water from the former to the latter, means for timing the operation of said ductor roller to vary its time of contact with said fountain roller and the amount of water conveyed therefrom, and means for adjusting the water fountain as a unit a variable distance towards and away from the printing plate of the press.

1,683,244. DISINTEGRATOR. WILLIAM M. DUNCAN, Alton, Ill. Filed Aug. 1, 1927. Serial No. 209,809. 5 Claims. (Cl. 83—11.)



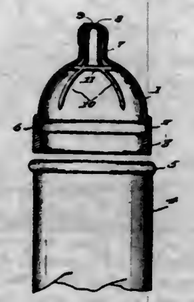
1. In a disintegrator, a rotary carrier, a hammer-holder pivoted to said carrier, interlocking elements extending from the sides of said holder, a hammer-head having interlocking elements slidable on the first-mentioned elements, and a keeper cooperating with said head and holder to prevent displacement of said head.

1,683,245. APPARATUS FOR FORMING AND HANDLING CLAY POTS. WILLIAM J. GOLIGHTLY, Kokomo, Ind., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Apr. 18, 1922. Serial No. 555,267. 1 Claim. (Cl. 25—2.)



Apparatus for building and drying pots comprising a working platform, a drying room, a track extending through the platform and through the drying room, a series of tucks mounted on the track with their stops adjacent the level of the platform, and movable floor sections for bridging the spaces in the platform at the ends of the trucks.

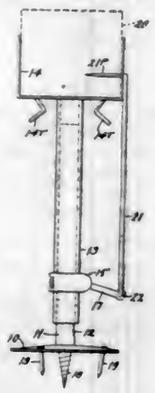
1,683,246. BOTTLE NIPPLE. RICHARD T. GRIFFITHS, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 30, 1926. Serial No. 98,581. 3 Claims. (Cl. 128—252.)



3. A nursing nipple for wide mouthed bottles comprising a breast portion having at the base an external relatively wide annular flange, forming a base ring, said

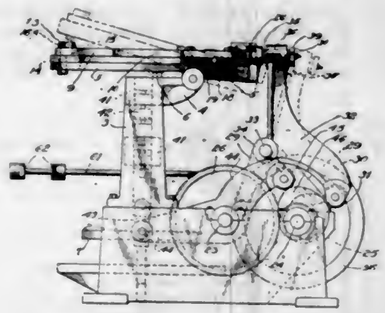
ring being provided with an annular channel in its inner face adjacent the lower edge of the breast and extending into proximity to the outer periphery of the flange providing a relatively wide and strong retaining band connected to the breast portion by a thin elastic web at the bottom of the annular channel.

1,683,247. SCREED SUPPORT. VERNER G. H. GROTHE, St. Paul, Minn., assignor to Harold L. Fagley, St. Paul, Minn. Filed Mar. 19, 1927. Serial No. 176,805. 8 Claims. (Cl. 72—122.)



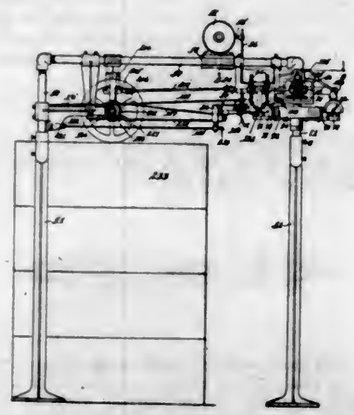
8. A screed support comprising a post, means for securing an end of said post upon a support for concrete, a screed holder upon the other end of said post, telescoping members of said post adapted to be extended and retracted to adjust the spacing of said holder relative to said support, means for retaining said holder in predetermined position relative to said support and an arm connected to said retaining means and projecting out from the normal surface of concrete upon said form whereby said retaining means may be operated to adjust the height of said holder without removing a screed held in said holder.

1,683,248. BARREL-MAKING MACHINE. CHARLES G. GROTNES, Chicago, Ill. Filed Sept. 12, 1921. Serial No. 500,142. 12 Claims. (Cl. 147—4.)



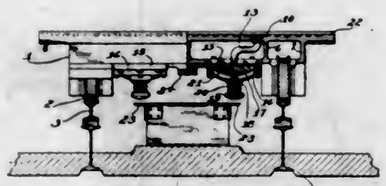
1. A machine of the class described comprising, in combination, a support for a barrel, clamping means operable to compress one end of the barrel to permit removal and replacement of an end hoop, and simultaneously operable means adapted to engage with a bilge hoop located below the mid-portion of the barrel, the last mentioned means being movable in a direction toward said support whereby to remove the bilge hoop.

1,683,249. SORTING MACHINE. ANGUS F. HANNEY, Chicago, Ill., assignor to Gammell-Hanney Mfg. Co., Chicago, Ill. Filed Mar. 27, 1925. Serial No. 18,669. 55 Claims. (Cl. 209—75.)



1. A sorting machine comprising a constantly moving conveyor; an intermittently moving conveyor associated therewith and arranged to receive laundry articles at a point remote from said continuously moving conveyor and transfer said laundry articles to the same; and selective means including a shiftable cam block operated by said moving laundry articles for discharging them from said continuously operating conveyor, substantially as described.

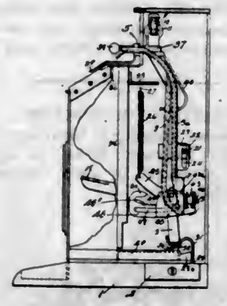
1,683,250. APPARATUS FOR HOLDING GLASS PLATES UPON GRINDING AND POLISHING TABLES. HALBERT K. HITCHCOCK, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed May 1, 1925. Serial No. 27,170. 3 Claims. (Cl. 51—235.)



1. The combination with a surfacing car or table mounted for movement along a track and having a glass supporting surface, of means for producing a suction effect intermediate said supporting surface and the glass carried thereby, and means operated by the movement of the table along the track for actuating said means to secure the glass to the table.

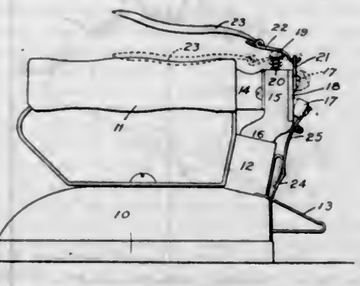
1,683,251. VARIETY VENDING MACHINE. VICTOR H. KELLEY, Madison, Wis. Filed Aug. 27, 1925. Serial No. 52,931. 3 Claims. (Cl. 312—93.)

1. In a vending machine of the type described, the combination of a cabinet having vertical partitions dividing the same into a plurality of storage bins, sliding drawers underlying the respective bins, and drawer-actuating and locking mechanism comprising a horizontal trolley rail in the upper portion of said cabinet, a beam suspended by a trolley wheel on said rail, means for shifting said beam along said rail, pivoted latches on said drawers normally locking the latter closed, said latches having latch-actuating portions adapted for coupling engagement with the lower end of said beam when the



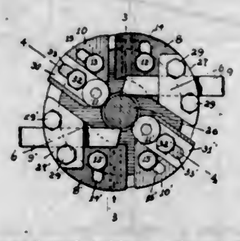
latter is moved into register therewith, and means for swinging said beam in the direction of movement of said drawers.

1,683,252. THERMOELECTRIC CONTROL DEVICE. THOMAS J. MADIGAN, Brooklyn, N. Y. Filed Oct. 16, 1926. Serial No. 141,964. 4 Claims. (Cl. 200—138.)



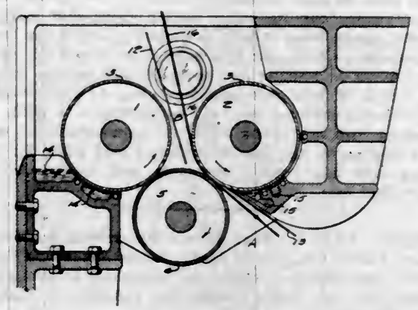
1. The combination with an electric sadiron, of an attachment plug adapted to fit the terminals of the iron, a current control switch on said plug, a handle grip to throw said switch into "on" position, said switch being adapted to be retained in the "on" position by engagement with the surface upon which the iron rests when the iron is tilted back, and thermostatically controlled means to disengage said switch from the surface when the temperature of the iron reaches a predetermined point.

1,683,253. WORK AND TOOL HOLDER. WALTER J. MCCONNELL, Cleveland, Ohio. Filed Mar. 9, 1927. Serial No. 173,996. 2 Claims. (Cl. 82—35.)



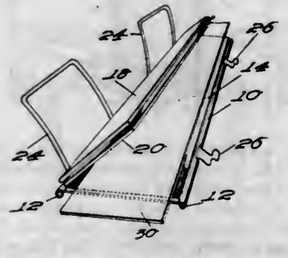
1. In a work and tool holder, a threaded body portion formed with a shank, a head formed of slotted segments slidable radially on the front end of the body, bolts extending through the slots and into the body, tools clamped to the front ends of the segments, and a wedging screw collar carried by the body and engaging the rear ends of the segments for positively adjusting the same.

1,683,254. VACUUM SEAL AND APPARATUS. OGDEN MINTON, Greenwich, Conn. Filed Dec. 10, 1926. Serial No. 153,851. 4 Claims. (Cl. 34—48.)



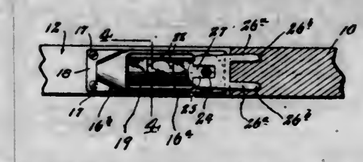
1. In a seal for the passages of a vacuum chamber, three rotatable members mounted in the passages in sliding engagement with the walls of said chamber and in air-tight engagement relatively to each other, two of said members mounted to rotate in the same plane, the other of said members mounted below and pressed against the surfaces of the other two members, and a liquid in contact with the surfaces of said members whose axes are in the same plane.

1,683,255. TIE PRESS. OSCAR W. MORTENSON, GUNNAR E. THELIN, and KARL FRANK NORRHAGEN, Chicago, Ill. Filed Mar. 25, 1927. Serial No. 178,200. 1 Claim. (Cl. 100—57.)



A tie press, including a base, a cover hingedly mounted on the base, and a strip of relatively soft material hingedly mounted between the base and the cover, and hinged means for locking said cover in position with respect to the base and said soft material, said means comprising U-shaped metallic bars curved upwardly from the cover to afford a resilient pressure when in locked position, the hinge axis of said locking bars being parallel to the hinge axis of the press cover.

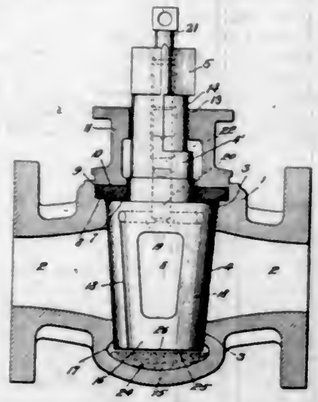
1,683,256. CARPENTER'S LEVEL. WILLIAM L. MYERS, St. Louis County, Mo. Filed Apr. 22, 1925. Serial No. 25,055. 2 Claims. (Cl. 33—213.)



1. In a device of the class described, the combination of a straight edge provided with a rectangular opening, a tube carrier arranged in said opening and provided with a sight opening, a spirit tube arranged in said carrier and

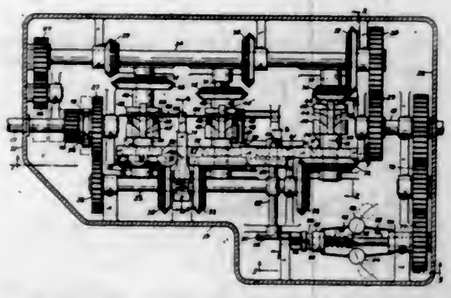
visible through said sight opening, an attaching lip formed integral with one end of said carrier and disposed longitudinally relative thereto, said lip being offset laterally and outwardly from said tube carrier and secured to one of the walls of said rectangular openings for spacing said carrier throughout its entire length from said wall, a threaded shank fixed to and extending transversely from the opposite end of said tube carrier, a bifurcated guide for receiving said shank and provided with prongs driven into a wall of said rectangular opening at right angles to the first mentioned wall for supporting said guide in alignment with said shank, and disks screw-seated on said shank bearing on the opposite sides of said guide for adjusting said tube carrier angularly with respect to its longitudinal axis.

1,683,257. VALVE. SVEN JOHAN NORDSTROM, San Francisco, Calif., assignor to Merco Nordstrom Valve Company, San Francisco, Calif., a Corporation of Delaware. Filed Oct. 18, 1927. Serial No. 226,867. 2 Claims. (Cl. 251—93.)



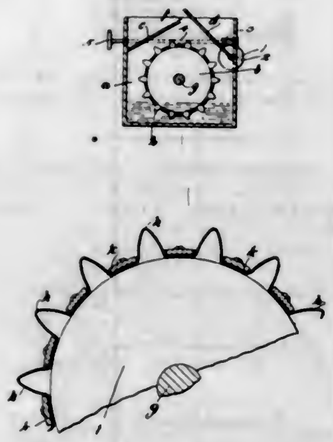
1. A valve comprising, a casing having a passageway therethrough and a valve seat formed transversely of the passageway, a plug seated in the valve seat and having a hole adapted to register with the passageway, said casing having a space forming a chamber into which the smaller end of the plug projects, powdered mica filling said chamber up to substantially the smaller end of the plug and means for forcing lubricant under pressure into the chamber to compress the mica and fill the space between the mica and the end of the plug.

1,683,258. VARIABLE-SPEED TRANSMISSION. HAYES M. PASSMORE, Oakland, Calif. Filed Apr. 8, 1927. Serial No. 181,981. 9 Claims. (Cl. 74—97.)



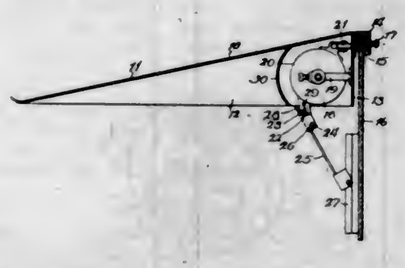
1. In a device of the character described, drive and driven shafts, a plurality of intermediate shafts operatively connected to one of said first shafts, fixed gears on the other of said first shafts, gears splined to each of said intermediate shafts and movable therealong for engagement with different of said first gears, and means mechanically controlling the positioning of said movable gears on said intermediate shafts and directly operative to prevent the engagement of more than one of said movable gears with the co-operating gear of said first gears.

1,683,259. CENTRIFUGAL SPRINKLER. JOHN C. PENDUE, Methuen, Mass., assignor to Manufacturers' Machine Company, North Andover, Mass., a Corporation of Massachusetts. Filed Oct. 3, 1925. Serial No. 60,191. 7 Claims. (Cl. 299—63.)



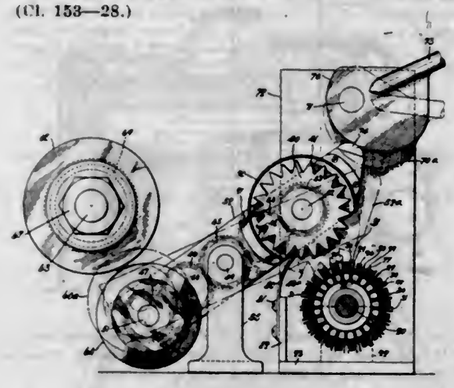
1. In an atomizer having impact surfaces, a centrifugal distributer revolubly mounted in said atomizer and comprising a central core and foraminous water lifters secured to said core, extending longitudinally thereof and projecting radially therefrom.

1,683,260. COMBINED WINDSHIELD VISOR AND WIPER MOTOR. THOMAS B. POLK, Seattle, Wash., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Filed Jan. 26, 1924. Serial No. 688,894. 7 Claims. (Cl. 15—253.)



1. In combination, a vehicle visor; a windshield cleaner motor supported thereby in housed relation and underneath the shade portion thereof; a windshield cleaner yieldably connected to said motor, and means for adjustably mounting the visor and motor as a unit upon a vehicle windshield for varying the field of vision through the latter while permitting the cleaner to remain in operative position with respect to the windshield.

1,683,261. APPARATUS FOR SPREADING THE RISER BARS OF COMMUTATORS. LORA E. POOLE, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 6, 1926. Serial No. 120,761. 4 Claims. (Cl. 153—28.)

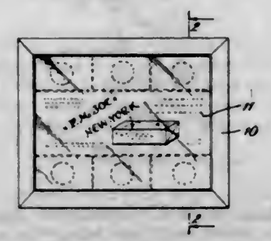


1. Apparatus for bending the riser bars of a commutator, comprising in combination, means for supporting a shaft carrying a commutator having segment sand a pair of bendable spaced riser bars associated with each of its segments, the riser bars of each pair defining an armature conductor receiving space, said shaft carrying a bar wound armature having the ends of its bar conductors located in certain of said spaces; a member having teeth each adapted to enter between the adjacent risers of adjacent commutator segments in order to increase the space between said risers by bending the risers toward the armature conductor bar ends adjacent thereto, the spacing of said teeth corresponding to the spacing of the pairs of risers; means for rotating the shaft while the commutator is engaged by the toothed member; and means for moving the tothed member toward or away from the commutator.

1,683,262. PROCESS OF CHEMICALLY TREATING AND WASHING PULP. GEORGE A. RICHTER and MILTON O. SCHUR, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Apr. 19, 1927. Serial No. 185,020. 8 Claims. (Cl. 92—16.)

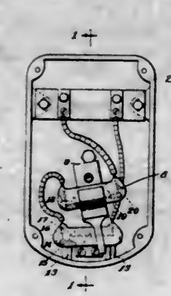
1. A process which comprises subjecting pulp to a series of alternating chemical treatments and washings, and employing the wash water effluent from one washing of the pulp in another washing of the pulp wherein the contaminations in such effluent do not deleteriously affect the pulp or materially interfere with its succeeding chemical treatment.

1,683,263. DISPLAY DEVICE. JOHN GREER RUCKELSHAUS, Newark, N. J., assignor, by mesne assignments, to Fantum Mirror, Inc., New York, N. Y., a Corporation of New Jersey. Filed Apr. 20, 1927. Serial No. 185,103. 8 Claims. (Cl. 40—52.)



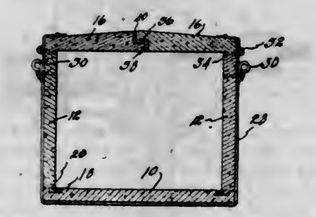
1. A display device comprising the combination of a reflecting screen, a plurality of advertisement areas behind the screen and normally concealed thereby, the screen being capable of transmitting light rays when powerfully illuminated from the rear, and means behind the areas for separately illuminating them to render them visible through the screen.

1,683,264. THERMOSTAT. HERBERT J. SAUVAGE, Chicago, Ill., assignor to Drying Systems, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1926. Serial No. 138,098. 3 Claims. (Cl. 200—138.)



1. In a thermostat, a housing for the thermostat, a switch movably mounted in said housing for controlling a circuit, means mounted on the housing for moving said switch, and gravity operated safety means mounted in the housing for rendering said switch ineffective if the housing is not in the proper position.

1,683,265. CONCRETE BURIAL BOX. OTTO E. SCHEEL, Detroit, Mich. Filed Feb. 21, 1927. Serial No. 169,780. 1 Claim. (Cl. 72—7.)

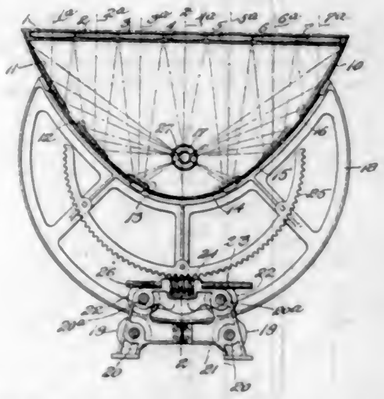


A burial box consisting of a floor, sides, and ends, each comprising a unitary concrete slab, each side and end slab having a tongue along its lower edge positioned substantially nearer the inner face of the slab than the outer face, each tongue having an inner face sloping downwardly and away from its outer face and at an angle to the inner face of the slab, said floor provided with grooves within which the tongues of the ends and sides are received, each groove having a width greater than that of the tongue received therein and having its inner side wall sloping downwardly and away from its outer side wall whereby it has a greater width at the bottom than at the top providing a wedge-shaped space within the groove alongside the inner face of the tongue which space is open to the interior of the box along the inner face of the side or end slab provided with the tongue, and a cementitious filler compound completely filling said space and wedging the tongue against the opposite side wall of the groove.

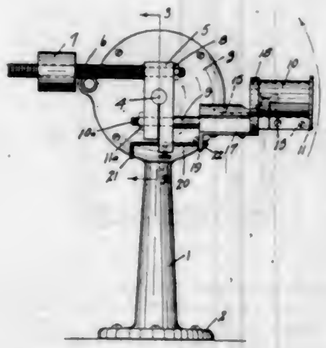
1,683,266. SOLAR HEATING APPARATUS. LEWIS H. SHIPMAN, Boston, Mass. Filed Aug. 5, 1925. Serial No. 48,323. 2 Claims. (Cl. 126—271.)

1. In an apparatus for utilizing solar heat the combination of a parabolic reflecting structure comprising a plurality of flat longitudinally extending reflectors disposed

parallel with the focal axis of said structure; a plurality of longitudinally extending lens bars disposed parallel with the focal axis of said structure and supported in position at the front of said structure so as to concentrate the rays on to said reflectors, and a conduit whose axis is coincident with the focal axis of said reflecting structure.



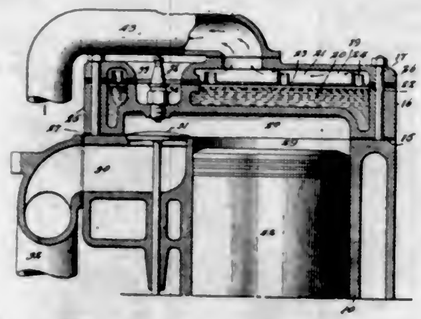
1,683,267. CENTRIFUGAL CASTING MACHINE. CHESTER P. SHOUDY, Spokane, Wash., assignor to Shoudy Manufacturing and Developing Company, Spokane, Wash., a Corporation. Filed Aug. 1, 1927. Serial No. 209,683. 4 Claims. (Cl. 22—65.)



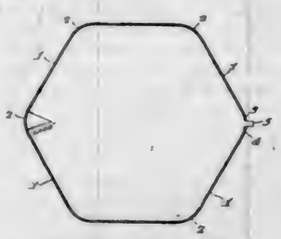
1. The combination with a motor shaft and operating means therefor, of a block secured on the shaft and a counterbalance for the shaft, an arm carried by the block and a mold fixed at the free end of the arm, an adjustable carrier on the arm, and a crucible supported on said carrier.

1,683,268. ENGINE HEAD. ALBERT B. STREETER, New York, N. Y. Filed Feb. 15, 1926. Serial No. 88,188. 8 Claims. (Cl. 123—173.)

1. An internal combustion engine comprising a cylinder block provided with piston containing chambers open through the top of the block and provided with water jacket spaces, a head for the block with its underside recessed to provide combustion chambers for each of the piston chambers, means for demountably securing the head to the block, said head provided with a liquid chamber adapted to contain a liquid, and provided with an air intake discharging into said chamber adjacent its bottom and into the liquid therein below its level, and said head provided with a discharge conduit leading off from the upper portion of said liquid chamber and from the free space above the liquid level therein, and a baffle provided with discharge vents positioned in the head and separating the liquid chamber into a lower liquid containing chamber and an upper gas or vapor containing chamber.



1,683,269. PISTON-RING SPRING. OTTO E. SZEKELY, Moline, Ill., assignor to John A. Ramsey, St. Louis, Mo. Filed June 1, 1925. Serial No. 33,938. 1 Claim. (Cl. 74—109.)



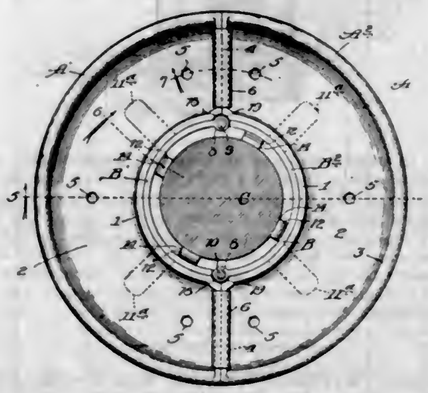
An integral piston ring spring having six equal sides joined together by curves of substantially equal radii and divided at the center of one of said curves, the curved ends of the spring having the same radius as the other curves, the radius of each curve being substantially 0.469 inches and the sides between said curves being substantially straight, whereby the ends of the spring will exert substantially the same pressure as the other curves and thus assure uniformity of stress distribution throughout the entire spring.

1,683,270. RADIATION RECEIVING CONDUCTOR. MARCIA ESTABROOK TAYLOR and JOHN BELLAMY TAYLOR, Schenectady, N. Y. Filed Aug. 25, 1923. Serial No. 659,352. 4 Claims. (Cl. 250—33.)



1. In combination with a collapsible frame structure adapted to be opened and closed comprising a central supporting rod and ribs pivotally secured thereto and radially extended therefrom, a sleeve adapted to slide along said rod, struts pivoted to said sleeve and to said ribs and controlling the movement of said ribs, hinged tips on said ribs to which a flexible radiation conductor may be secured, links each of which is pivoted on one end to one of said hinged rib tips and on the other end to one of said struts whereby said tips are maintained substantially parallel to said central rod when said frame is in its open position, a self-supporting stand for said structure, and an adjustable clamp mechanically inter-connecting said structure and said stand, whereby said radiation conductor may be given any desired position in altitude and azimuth.

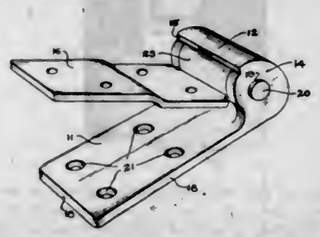
1,683,271. FLOWERPOT DEVICE. ROBERT JOHN THOMPSON, Paris, France, and CHARLES FISHER, New York, N. Y. Filed June 4, 1925. Serial No. 34,861. 7 Claims. (Cl. 47—34.)



1. A flower pot device comprising a post-clamping bracket-ring provided with depending outturned arms, and an annular flower pot supported on said arms comprising hollow arcuate sectors open at their upper sidee.

2. A flower pot device comprising a bracket-ring, adjustable wedges within and movably attached to said ring, and arcuate flower pot sectors mounted on and embracing said ring.

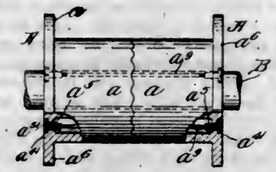
1,683,272. DUSTPROOF HINGE. MORTON TUCKER, Philadelphia, Pa. Filed May 9, 1927. Serial No. 189,945. 11 Claims. (Cl. 29—11.)



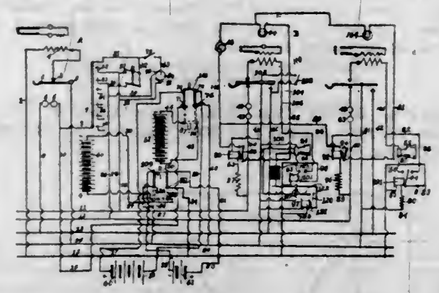
1. The herein described process of manufacturing the female butt of a dust proof hinge, which consists in producing in one operation a drop-forged blank including a curved portion at one end thereof having diverging side enclosures, and then straightening said enclosures into substantial parallelism.

1,683,273. SPOOL AND THE LIKE. HANS H. WANDERS, Boston, Mass. Filed Feb. 14, 1927. Serial No. 168,190. 5 Claims. (Cl. 242—118.)

1. As a new article of manufacture, a molded one-piece end member for use in making an article of the character described comprising a cylindrical barrel section; an integral internal end wall at the outer end of said barrel section radial sinuous corrugations providing alternating projections and recesses at the inner end of said barrel section, and a longitudinally extending conduit groove upon the exterior of said barrel section communicating at its inner end with one of said recesses.

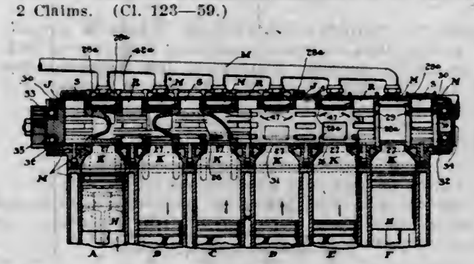


1,683,274. ELECTRICAL POLICE SIGNAL. FERDINAND PAUL AUGUST WEYLER and HORACE FREED, Philadelphia, Pa. Filed Sept. 20, 1926. Serial No. 136,630. 6 Claims. (Cl. 179—5.)



1. In a police alarm system, having a central station, and a series of outlying boxes which are callable and communicable with both individually and collectively from the central station, the combination of a signal light and its circuit placed at each box, a relay set in parallel with the ringing circuit at each of these boxes, and operative when the circuit is traversed by a current of higher electro-motive force and inoperative when a current of less electro-motive force traverses the ringing circuit of the box and means operatable from the station for increasing the potential of the sources of electrical current traversing these ringing circuits, and a circuit including the signal light, and a source of electrical lighting energy and the armatures of said relays and closed by these relays.

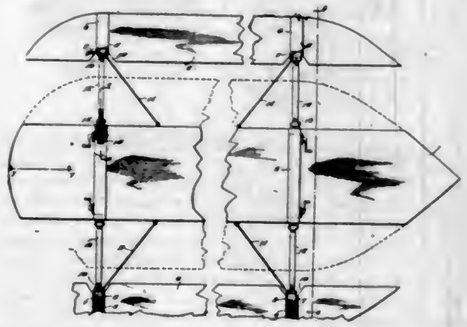
1,683,275. ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINES. ADOLF A. J. WESTMAN, Montreal, Quebec, Canada. Filed Apr. 14, 1925. Serial No. 23,072. 2 Claims. (Cl. 123—59.)



1. An internal combustion engine valve comprising a cylindrical sleeve internally partitioned to provide a plurality of exhaust chambers separated from one another by

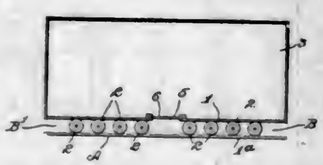
intervening gas admission chambers, the cylindrical wall of each chamber being formed with a series of openings spaced therearound, the series of openings communicating with the exhaust chambers constituting the outlets from said chambers while the series of openings communicating with the gas admission chambers constitute gas inlets thereto, each gas admission chamber being provided with a pair of outlet openings located at opposite sides of the inlet openings to said chamber and in alignment circumferentially of the sleeve with a pair of inlet openings communicating with the exhaust chambers between which said gas admission chamber is located, a lining sleeve in which said valve is inserted, said lining sleeve comprising cylindrical portions surrounding the portions of the valve in which are formed the outlets from the gas admission chambers and the inlets to the exhaust chambers and being each provided with a port adapted to align with said inlets and outlets in the operation of the valve, spacing ribs connecting the aforesaid cylindrical portions of the lining sleeve, said cylindrical portions of the lining sleeve being provided with interior circumferentially extending lubricant grooves intersecting radial openings extending from the inner to the outer surface of the lining sleeve, each cylindrical portion of the lining sleeve being further provided interiorly thereof with a plurality of longitudinally disposed grooves to which oil is conveyed from the circumferentially extending groove via small grooves formed in the outer surface of the valve.

1,683,276. BOAT. CHARLES L. WOODS, Alton, Ill. Filed Feb. 27, 1926, Serial No. 91,106. Renewed Feb. 18, 1928. 6 Claims. (Cl. 114—61.)



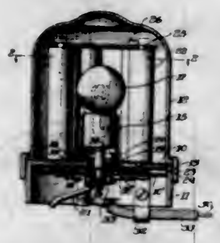
1. A boat including a hull comprising independent sections, arms forming connecting means between adjacent sections and pivoted thereto, means for adjusting the effective point of connection between the arms and one of the sections for varying the relative adjustment of the sections and means for adjusting the sections vertically, whereby they simultaneously receive a lateral adjustment.

1,683,277. TIDE-WATER SYSTEM. FRANK M. ZOTTOLI, Boston, Mass. Original application filed June 6, 1922, Serial No. 566,396. Divided and this application filed Nov. 27, 1923. Serial No. 677,310. 6 Claims. (Cl. 61—20.)



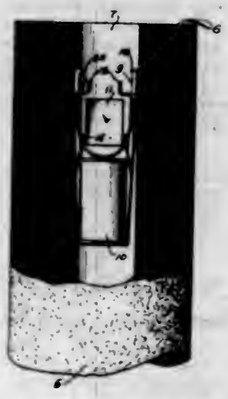
1. In combination with a sluiceway open to tide water at all times at both ends and having at all times a free and open passage throughout its length from tide water to tide water, a turbine set to rotate on a vertical axis in said sluiceway, a reservoir, a passage between the reservoir and the sluiceway so located that tide water can enter the reservoir only by first entering the sluiceway and a gate controlling said passage.

1,683,278. VEHICLE SIGNAL. VLADISLAV ALTMAN, Racine, Wis. Filed May 11, 1927. Serial No. 190,402. 9 Claims. (Cl. 116—63.)



1. In a signal device of the character described, the combination with a lamp, of a curtain comprising a group of translucent members pivoted side by side on parallel axes opposite said lamp, said members having colored and uncolored portions on corresponding opposite sides thereof respectively, and means for simultaneously rotating said members through a half turn whereby to expose either of said portions to view from a point on the opposite side of said curtain from said lamp.

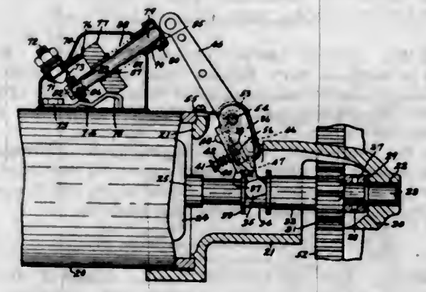
1,683,279. MATERIAL HOLDER. KARL EDWARD ANDERSON, Chicago, Ill. Filed Mar. 9, 1927. Serial No. 173,854. 12 Claims. (Cl. 206—59.)



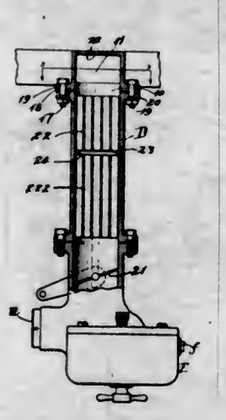
1. A device of the class described adapted to be inserted in an opening through a roll of roofing material, having means for holding a can of cement therein; additional means for individually holding a box of nails therein and means for frictionally engaging the walls of said opening and spring means for increasing and maintaining said frictional engagement.

1,683,280. VARIABLE-RESISTANCE SWITCH. JAMES L. ARTHUR, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 29, 1925. Serial No. 65,670. 2 Claims. (Cl. 201—48.)

2. An electric switch comprising pairs of stationary contacts, a rigid, high total resistance contact for bridging one pair of stationary contacts, a low total resistance contact for bridging the other pair of contacts, a spring urging the high resistance contact toward switch-closing position, an operating member movable in one direction for retaining the high resistance contact in switch-open position and movable in the other direction first to permit said high resistance contact to be moved by said spring into switch-closing position and then to move the low resistance contact into switch-closing position, and a spring for resisting the last described movement of the operating member.

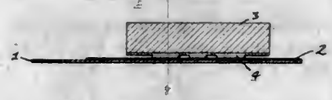


1,683,281. INTAKE MANIFOLD. HORACE W. ASIBE, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 21, 1925. Serial No. 3,822. 4 Claims. (Cl. 123—52.)



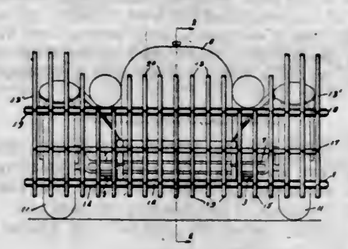
1. A device for distributing fuel mixture from a source of supply to the several cylinder intake ports of a multicylinder internal-combustion engine, comprising in combination, a manifold having a plurality of conduits symmetrically disposed about a mixture-receiving space; a riser connecting the source of fuel mixture with said mixture-receiving space; straighteners provided in the riser for at least a portion of its length and affording a plurality of straight passageways adapted to deliver, under normal operating conditions, all of the fuel mixture passing through the riser in a straight, unobstructed flow to the mixture-receiving space; and an equalizer ring in the riser located anterior to at least a portion of the straighteners, said ring being adapted to obstruct the flow of fuel mixture along the wall of the riser and to direct it toward the center thereof.

1,683,282. METHOD OF DECORATING TRANSPARENT SURFACES. GEORGE C. ASHLEY, San Francisco, Calif. Filed July 5, 1927. Serial No. 203,372. 12 Claims. (Cl. 41—38.)



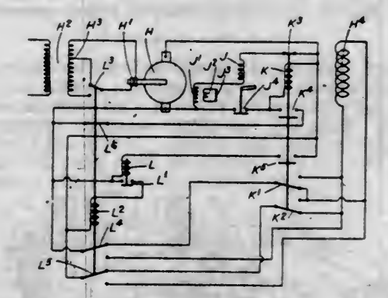
1. The method of decorating transparent materials comprising, painting a surface of transparent material with an adhesive coating forming a design in said adhesive coating by forcing a portion of the coating within a predetermined area sideways and removing the remainder of the coating within said area.

1,683,283. SAFETY BUMPER. HARVEY M. BOWMAN, Mountain View, Calif. Filed Oct. 15, 1927. Serial No. 226,419. 3 Claims. (Cl. 293—32.)



1. A safety bumper comprising a U-shaped frame, spring means connecting said frame with an automobile, flexible members extending transversely to said frame, and upwardly therefrom.

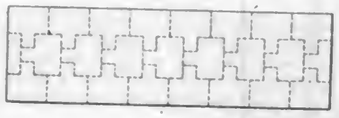
1,683,284. STARTING AND SYNCHRONIZING OF ALTERNATING-CURRENT DYNAMO-ELECTRIC MACHINES. WILLIAM ANTHONY AMBROSE BURGESS, Monkseaton, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Apr. 8, 1926, Serial No. 100,700, and in Great Britain May 9, 1925. 9 Claims. (Cl. 172—280.)



1. In starting and synchronizing apparatus for an A. C. dynamo-electric machine, the combination with the main field winding of the machine whose connections to the machine terminals are reversed when starting operations commence, of an A. C. supply circuit for the machine, a D. C. circuit associated with the field of the machine, a polarized relay connected to the D. C. circuit and responsive to the beat between the supply voltage and the voltage of the machine, means for preventing operation of the

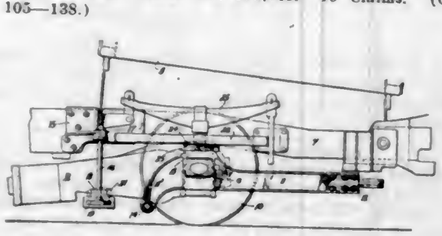
relay until the frequency of the beat has fallen to a predetermined value, and means whereby the field connections are brought into their normal condition when the relay operates.

1,683,285. COMPOSITION ROOFING SHINGLE. NAASON Z. BUTTERICK, Miami, Fla. Filed Feb. 4, 1927. Serial No. 165,973. 1 Claim. (Cl. 108—7.)



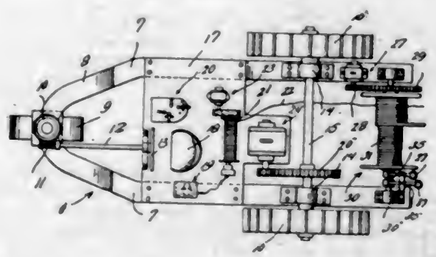
An individual shingle having a substantially rectangular body portion and an upward extension projecting from the upper edge of the body portion, said extension having a height equal to the intended exposure of said shingle, with the height of extension being substantially one-half the length of the body and the breadth being substantially one-third of the breadth of the body, whereby the shingles can be cut from a continuous strip without any waste by arranging opposed pairs transversely of the strip and separated by centrally positioned shingles extending longitudinally of the strip.

1,683,286. LOCOMOTIVE BOOSTER DEVICE. WILLIAM F. J. CASEY and GUSTAVE CAVIN, Kingston, Ontario, Canada, assignors, by mesne assignments, to C-S Engineering Company, a Corporation of Delaware. Filed Aug. 3, 1922. Serial No. 579,445. 15 Claims. (Cl. 105—138.)



1. The combination with a locomotive of a truck having an axle and wheels, a booster motor for driving said wheels in part supported on said truck, and means also supporting the motor from the locomotive structure including a suspension member and a substantially universal connection.

1,683,287. ELECTRIC-POWER TRUCK. WILLIAM H. COBURN and CHARLES KIERNAN, Morgantown, W. Va., assignors of one-third to Ernest H. Gilbert, Morgantown, W. Va. Filed Sept. 29, 1927. Serial No. 222,919. 2 Claims. (Cl. 191—12.)



1. In a power supply apparatus for use in coal mine headings employed in a system of mining of the class described, a self-propelled wheeled truck constructed for movement in said heading, a rotary reel carried by said truck, a power take-off device associated with the reel and adapted to accommodate auxiliary current conducting lines leading to cutting machines, conveyors and the like, and a power supply cable wound on said reel, said power supply cable being suspended from and electrically connected with a main source of supply in a main heading in a mine.

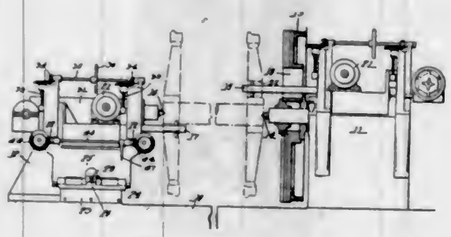
1,683,288. ART OF IMPROVING MINERAL OILS. FORREST WAYLAND ELEY, Newark, Ohio, assignor, by mesne assignments, to Anglo-California Trust Company. Filed Mar. 15, 1923. Serial No. 625,262. 6 Claims. (Cl. 196—39.)

1. The process of removing polymerizable constituents from mineral oils which comprises subjecting such mineral oil to the action of a solution of glacial acetic acid in ether, and separating resultant polymerized products.

1,683,289. ART OF REFINING OIL. HARRY F. GLAIR and OSCAR E. BRANSKY, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Original application filed July 7, 1922, Serial No. 573,473. Divided and this application filed Oct. 10, 1925. Serial No. 61,774. 2 Claims. (Cl. 196—19.)

1. The method of removing wax from lighter wax-bearing, substantially uncracked oil distillates which consists in admixing with such distillates a paraffin wax-bearing oil of higher viscosity than the burning oils and of lower viscosity than the oil under treatment, chilling and filter-pressing the mixture.

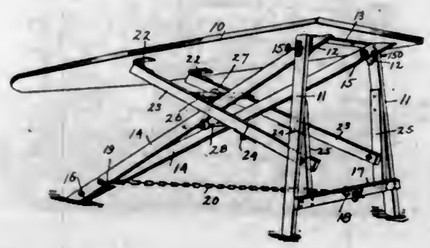
1,683,290. QUARTERING AND THIRDING ATTACHMENT. ARTHUR C. GOUGH and VLADIMIR CHARUSHIN, Fitchburg, Mass., assignors, by mesne assignments, to Shaw Crane-Putnam Machine Company, Inc., a Corporation of Delaware. Filed June 30, 1927. Serial No. 202,719. 10 Claims. (Cl. 29—27.)



1. In a metal working machine, the combination with a pair of centers for supporting the work, metal working means adjacent to one center and offset therefrom for operating on the work at that end, and means adjacent to the other center and offset therefrom in a different direction for operating on the work at that end, of an attachment for holding the second means, adjustable in two directions, to permit change in the positions around the centers at which the work is done.

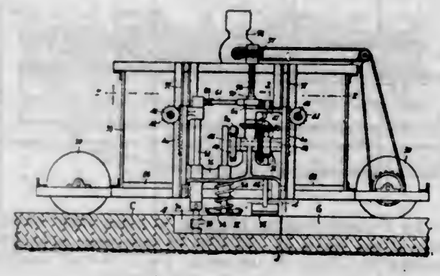
8. In a quartering and thirding machine for driving wheel sets, the combination with a head and tail stock, each having a center for supporting the sets at their ends, of a support provided with a guide extending upwardly at an angle of 30° toward said centers, an angular block having a bottom surface located parallel with said guide and resting thereon and its top surface horizontal, means for adjusting the block up and down the incline, means for clamping the block in adjusted positions, a stop for preventing the movement of the block toward the centers beyond a certain point, the block having horizontal guides along its upper surface, a frame adjustable along said horizontal guides toward and from the centers, and an attachment carried by said frame and having a guide for a metal working tool parallel with the axis of the centers, said attachment being adjustable.

1,683,291. IRONING TABLE. JAMES G. HAUGH, Bascom, Ohio. Filed June 26, 1926. Serial No. 118,817. 2 Claims. (Cl. 68—10.)



1. An ironing table comprising a board, a pair of legs pivoted to the underside of the board near one end thereof, and constituting separated floor-engaging members, a single point floor-engaging member composed of bars pivoted to the ironing board at the same end as said legs, and spaced apart where they are pivoted and converged to meet at the floor-engaging point, a pair of hinged braces pivoted to the underside of the board at separated points at substantially midlength thereof and pivotally connected to said legs, said braces having hinges that permit the same to break towards the board when the sections of said members are in a straight line and a flexible tension member connected to said pair of legs at a point below the pivotal connection of said braces therewith and extending directly to and connected with said single point floor engaging member near the floor engaging end thereof.

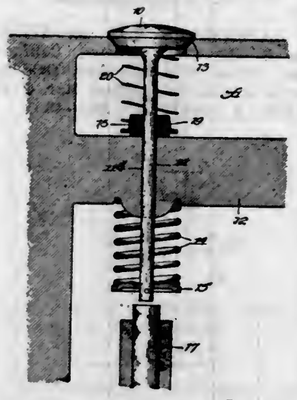
1,683,292. METHOD OF AND MEANS FOR GROOVING PLASTIC MATERIAL. JOSEPH WILLIAM HELTZEL, Warren, Ohio. Filed Mar. 11, 1926. Serial No. 93,978. 37 Claims. (Cl. 94—45.)



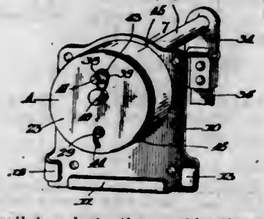
1. The method of grooving plastic material consisting in advancing a cutting member in the material while moving it transversely of the line of advance movement.

1,683,293. PACKING DEVICE FOR VALVE STEMS. ALBERT C. LINDBLOOM, Chicago, Ill. Filed Dec. 19, 1923. Serial No. 681,515. 3 Claims. (Cl. 251—144.)

1. In combination, an internal combustion engine, having a valve guide, a valve having a stem slidable in said guide, a spring for normally holding said valve on its seat, packing surrounding said stem and located within the intake passage of the engine, a cup-like washer around said packing, a flange at the lower edge of said washer, and a helical spring of flat cross-section partly enclosing said washer and bearing against said flange to press said packing against the guide, the spring when collapsed being substantially the length of said washer whereby it will accommodate valve guides of varying height.

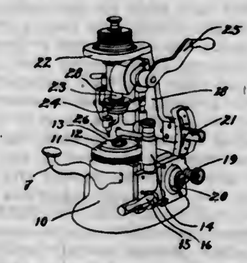


1,683,294. MAIL-BAG LOCK. ARCHIE EDGAR LOW, Ottawa, Ontario, Canada. Filed Jan. 22, 1927. Serial No. 162,771. 2 Claims. (Cl. 70—2.)



1. In a mail bag lock, the combination with an apertured casing having spring actuated locking dogs pivotally mounted therein, of a locking bolt engaging with the casing apertures and protruding therebeyond, said bolt being formed adjacent the protruding end with a groove to automatically engage with said dogs on the bolt being inserted through the casing, the protruding end of the bolt being cone-shaped and formed with an opening therein.

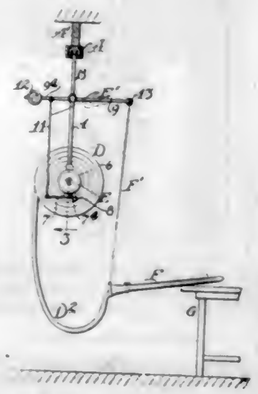
1,683,295. LENS CUTTER. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Original application filed July 22, 1922, Serial No. 576,846. Divided and this application filed Apr. 28, 1924, Serial No. 709,508, and in Great Britain July 6, 1922. 9 Claims. (Cl. 33—28.)



9. In a device of the character described, a former, a swinging arm, a pair of contact arms pivoted on the

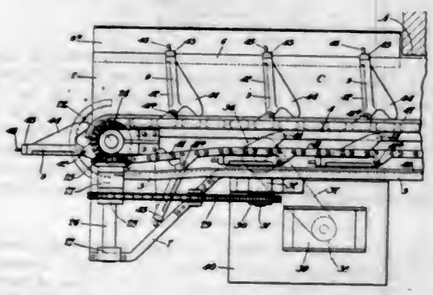
swinging arm, former contacts on each pivoted arm, and yielding means to hold the former contacts against the former.

1,683,296. APPARATUS FOR STUFFING PLAITS. ALLISTER S. MITCHELL, Oakland, Calif., assignor to California Cotton Mills Company, Oakland, Calif., a Corporation of California. Filed Mar. 9, 1927. Serial No. 173,877. 5 Claims. (Cl. 226—43.)



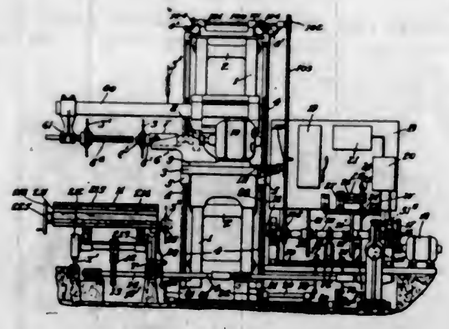
1. Plait-stuffing apparatus comprising a reel, a brake controlling said reel, an insertion-tool controlling the operation of said brake.

1,683,297. MINING MACHINE. EDWARD O'TOOLE, Gary, W. Va. Filed June 14, 1926. Serial No. 115,908. 1 Claim. (Cl. 262—9.)



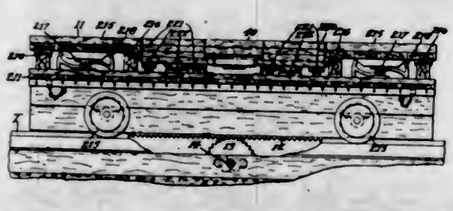
A longwall combined mining and loading machine comprising an elongated main frame composed of a base plate, rear and front beam members secured along the longitudinal edges of said base plate for the major part of the length of said frame, a link chain trained over sprockets at each end of said frame and adapted to travel longitudinally thereof, conveyer flights having their rear ends on a materially higher plane than their body portion and said rear ends being pivotally secured to said chain, said conveyer flights having the forward ends of their body portions projecting beyond the forward edge of said machine frame and overlying the floor of the mine, cutter bits removably mounted in the forward free ends of said conveyer flights, and an integral supporting wing on the body portion of each of said conveyer flights adapted to engage the forward edge of said base plate to support said flights in extended position during their cutting and conveying operation and to underlie said chain on the return travel of said chain.

1,683,298. STONEWORKING MACHINE. GEORGE D. PITKIN, Montpelier, Vt., assignor to Lane Manufacturing Company, Montpelier, Vt., a Corporation of Vermont. Filed Apr. 8, 1926. Serial No. 100,490. 8 Claims. (Cl. 125—13.)



1. In a stone working machine, a reversible driving source, an automatic reversing device therefor, a main shaft driven from said driving source, a pair of independent drives loosely mounted on said shaft, a clutch, a manually operable shipper lever for selectively shifting said clutch into engagement with either driver to couple the same to said main shaft, a countershaft operatively connected with said reversing device and with said clutch, a pair of ways, a stone table and a saw head respectively traversing said ways, a table feed adapted to be driven from one of said drivers on the main shaft, a head feed adapted to be driven from the other driver, a reversing mechanism for the table feed and an independently operating reversing mechanism for the head feed, and independent connections from said reversing mechanisms to said countershaft.

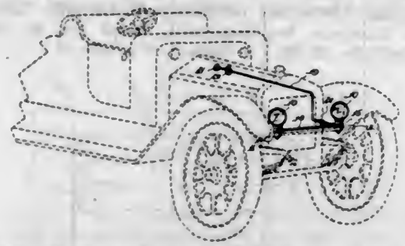
1,683,299. WORKTABLE. GEORGE D. PITKIN, Montpelier, Vt., assignor to Lane Manufacturing Company, Montpelier, Vt., a Corporation of Vermont. Original application filed Apr. 8, 1926, Serial No. 100,490. Divided and this application filed Oct. 22, 1926. Serial No. 143,467. 4 Claims. (Cl. 125—35.)



1. In a stone working machine, a stone table having a pair of end ways, an end slide in each way, means for adjusting the slides in the ways, and a central support rotatably mounted between the end supports.

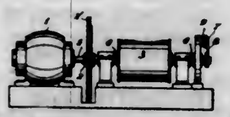
1,683,300. DIRIGIBLE HEADLIGHT. ANSIL S. RAMSAY, Troy, Ala. Filed Oct. 20, 1926. Serial No. 142,926. 1 Claim. (Cl. 240—61.)

In an automobile, the combination with the dirigible headlights and supporting brackets therefor comprising plates secured to the underside of the lamps and connected by a rod for turning said lamps in unison, of an operating member connected to one of the aforementioned plates to extend laterally therefrom and having an upstanding flange at its inner edge with slots in the flange and body portion of the member, and a stop on the plate to engage the supporting bracket for positioning the lamps to project the headlights forwardly; together with a rod slidable longitudinally through the radiator frame of the automobile and through the slot in the flange of the operating member, the outer end of said rod being bent to engage in the slot in the body portion of said operating mem-



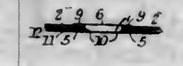
ber, a spring encircling the rod and interposed between the radiator frame and flange of the operating member for moving the lamps or headlights to normal position, an extension from the rod for convenience in moving the same against the action of the spring, and means for holding the rod temporarily.

1,683,301. DEVICE FOR SYNCHRONIZING INDIVIDUALLY-DRIVEN PARTS AT A TRANSMITTER AND A RECEIVER STATION. HORST RASSOW, Berlin-Wilmersdorf, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, a Corporation of Germany. Filed Aug. 28, 1926, Serial No. 132,164, and in Germany Sept. 12, 1925. 18 Claims. (Cl. 178—53.)



1. In a device for synchronizing individually driven parts at a transmitter and a receiver station by synchronizing current impulses dispatched from the transmitter station across the connecting line between said stations, more particularly for the telegraphic transmission of pictures, in combination, at the receiver station a centrifugal clutch adapted to transmit the main driving force and a magnetic clutch adapted to be energized by said synchronizing current impulse when the speed of the transmitter differs from that of the receiver.

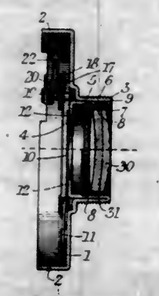
1,683,302. CAMERA COVERING AND METHOD OF MAKING SAME. FRANK H. REYNOLDS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 13, 1926. Serial No. 122,263. 14 Claims. (Cl. 220—1.)



1. In a camera, a covering therefor made of cellulosic material, and a cellulosic binding member covering and united to the edges of the cellulosic covering, whereby a reinforced decorative edge is produced.

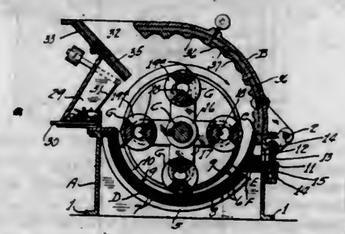
1,683,303. SHUTTER CASING. WILLIAM A. RIDDELL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 21, 1925. Serial No. 45,129. 9 Claims. (Cl. 95—53.)

1. In a photographic shutter, the combination with shutter mechanism, of a shutter casing for enclosing the shutter mechanism comprising an integral structure, said structure including an annular base plate, a flange extending around the periphery of the base plate and a double-walled tubular extension from the base plate between the flange and the aperture of the annular member,



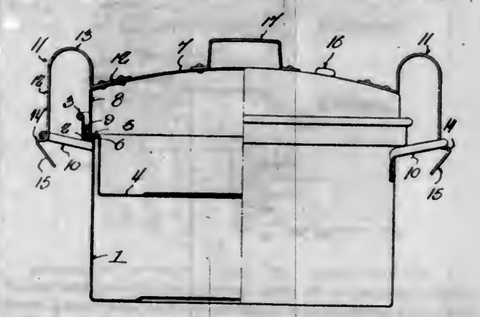
the walls of the double-walled tubular extension lying in contact whereby a reinforced tubular extension is provided.

1,683,304. PULVERIZING MACHINE. ERNEST T. ROEBKE, St. Louis, Mo., assignor to American Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 12, 1927. Serial No. 174,848. 11 Claims. (Cl. 83—11.)



1. In a machine of the class stated, in combination with a casing, an arcuate grinding surface within the casing, and a carrier mounted for rotation within the casing, of an annular series of cylindrical hammers supported by the carrier and rotatable both with and axially relatively to the carrier for co-operation with the grinding surface, each of said hammers including spaced annuli and arcuate circumferentially spaced bars disposed between and connecting the annuli and having their outer peripheral surface in the circumferential plane of the annuli.

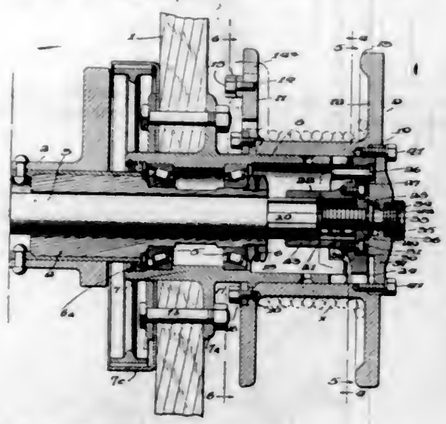
1,683,305. WATERLESS COOKER. ADOLPH L. ROSENHEIMER, Jr., Kewaskum, Wis., assignor to Kewaskum Aluminum Company, Kewaskum, Wis. Filed Oct. 10, 1927. Serial No. 225,208. 2 Claims. (Cl. 53—1.)



1. A cooking vessel comprising a bottom container provided with a lateral seat adjacent its upper edge, a cover having a lower rim removably positioned within said lateral seat, said bottom container having outwardly

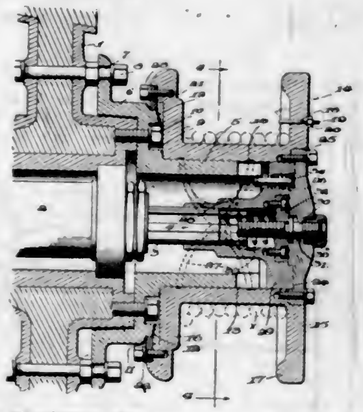
projecting looped handles, inverted U-shaped, upwardly arched, spring latching members carried by said cover in corresponding positions to the handles on the bottom container, each of said latching members having one of the arms rigidly secured to said cover and having its other arm extending downwardly for passage through the corresponding handle, and provided with an outwardly projecting cam portion adapted to snap beneath the handle and draw the cover downwardly.

1,683,306. ATTACHMENT FOR MOTOR VEHICLES. CHARLES E. RYAN and THOMAS J. SCHUETZ, Tulsa, Okla. Filed Oct. 12, 1925. Serial No. 62,065. 19 Claims. (Cl. 180—53.)



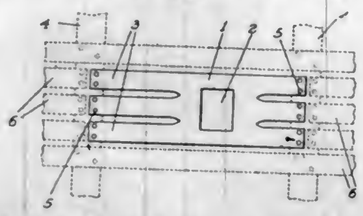
1. A mechanical movement comprising a driving member, two driven members, means whereby said driving member will alternately engage each of said driven members and spring actuated means whereby the engaging parts of said driving member and driven members will automatically become in alignment for all relative positions of the parts.

1,683,307. ATTACHMENT IN MOTOR VEHICLES. CHARLES E. RYAN and THOMAS J. SCHUETZ, Tulsa, Okla. Filed Oct. 12, 1925. Serial No. 62,066. 3 Claims. (Cl. 180—53.)



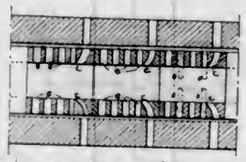
1. An attachment for motor vehicles comprising a flange adapted to fit over the hub of the vehicle wheel, means for securing said flange to the hub and to the wheel proper, a sleeve integral with said flange and angularly disposed with relation thereto, a drum rotatably mounted on said sleeve, a split ring adapted to be screwed to said drum and co-act with a recess in said flange, for retaining the drum on said sleeve, means for lubricating the contacting surfaces of said drum and sleeve, means for lubricating said ring and mechanism for rotating the drum free from the wheel and the wheel free from the drum.

1,683,308. WOODEN OUTLET-BOX FRAME. EUGENE L. SCRANTON, Hughson, Calif. Filed Feb. 20, 1926. Serial No. 89,598. 3 Claims. (Cl. 247—22.)



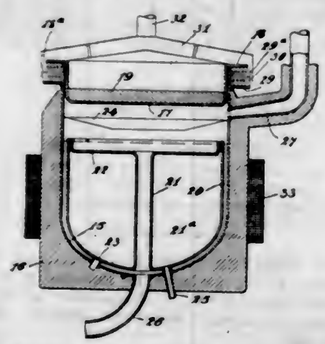
2. An outlet box frame for application to a frame building having spaced studs to receive lath strips, comprising a flat board having an opening cut therethrough intermediate its ends to receive an outlet box and being slit longitudinally from its end toward the opening, to form plaster locks, the length of the board on each side of the opening being approximately equal to the distance between studs adjacent which the board will be mounted.

1,683,309. TUNNEL KILN FOR CERAMIC INDUSTRY. VICTOR SELLIEZ, St.-Ghislain, Belgium. Filed Dec. 2, 1925, Serial No. 72,843, and in Belgium Dec. 2, 1924. 1 Claim. (Cl. 25—142.)



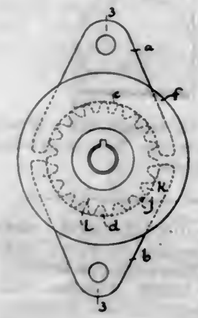
In a baking apparatus, a tunnel kiln, cars movable through the kiln, said cars having hollow floors provided with central communicating canals and lateral ducts communicating with the canals for receiving combustible gas, and means for admitting combustible gas to said ducts.

1,683,310. APPARATUS FOR THE GENERATION AND DISTRIBUTION OF MERCURY VAPOR AND SEALING MEANS THEREFOR. FRANK SHORT, Poughkeepsie, N. Y., assignor to Chemical Machinery Corporation, a Corporation of New York. Filed Sept. 2, 1924. Serial No. 735,495. 19 Claims. (Cl. 219—47.)



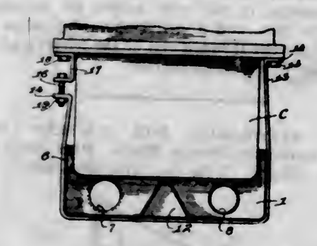
1. A mercury boiler including a body, a removable cover member and a mercury seal between the body and cover member, and means for preventing the loss of sealing mercury by vaporization.

1,683,311. TOOL OR APPLIANCE FOR FACILITATING THE MOUNTING OF SHAFT COUPLINGS. FREDERICK RICHARD SIMMS, London, England, assignor of one-half to Simms Motor Units Ltd., London, England. Filed Aug. 25, 1927, Serial No. 215,434, and in Great Britain Aug. 7, 1926. 1 Claim. (Cl. 29—84.)



A tool or appliance for facilitating the relative adjustment of the opposed members of shaft couplings of the kind referred to, comprising a pair of flat metal plates of a thickness corresponding to the amount of space or play desired between the said opposed members when mounted on the shafts to be coupled, and between which members, the said plates are inserted from diametrically opposite points, each of the plates being formed at one end with a semi-circular recess such that it can partly encircle a boss of the coupling part thereon.

1,683,312. CRANK-CASE-HEATING DEVICE. HENRY F. SINNING, Grundy Center, Iowa. Filed Dec. 20, 1926. Serial No. 156,029. 3 Claims. (Cl. 184—104.)



1. An engine crank case heater comprising a closed fluid tight hollow pan having inlet and outlet ports therein, fluid tight hollow walls communicating with and extending upwardly from the sides and one end of said pan and adapted to snugly and embracingly receive the lower portion of the crank case, baffle means of substantially inverted V-shaped cross sectional formation received in said hollow pan having their upper and lower sides secured to adjacent portions of said pan and bracing the top and bottom thereof, and strap brackets embracingly engaged about bottom and sides of said pan and adjustably secured to portions of the engine.

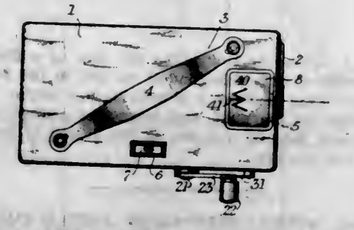
1,683,313. BOTTLE CAP. ROY N. STEWART, Natick, Mass., assignor to Stewart Manufacturing Company, Boston, Mass. Filed Dec. 14, 1926. Serial No. 154,777. 4 Claims. (Cl. 215—38.)

1. A milk bottle closure comprising a body having a depending outwardly flared locking lip, the lower face of the lip being provided with a rounded surface for engaging the lower wall of the closure seat of the milk bottle, the upper edge of the lip extending beyond the rounded face and constituting a shoulder for engaging the side wall of



the bottle closure seat, and a cap connected with the body extending beyond the periphery thereof having a depending annular skirt.

1,683,314. POWER-DRIVEN CAMERA WITH MOTOR SIGNAL. RAY L. STINCHFIELD, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 30, 1925. Serial No. 27,018. 13 Claims. (Cl. 88—17.)



1. In a motion picture camera having a finder, a spring motor of the type in which energy may be stored for operating the camera, and a signal movably mounted relative to the finder operatively connected to and controlled by the motor adapted to give an indication in the finder relative to the energy stored in the motor.

1,683,315. PROCESS OF MAKING ANTISTATIC NITROCELLULOSE FILM. RAY L. STINCHFIELD, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 9, 1926. Serial No. 140,695. 4 Claims. (Cl. 95—9.)

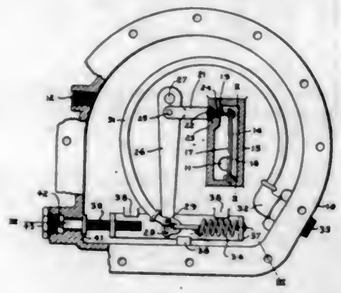
1. The process of lowering the static tendency of flexible, transparent, static-producing nitrocellulose film which includes treating the rear face of said film with a solution of an alkali until it is superficially hydrolyzed, the treatment being stopped before its flexibility and transparency are impaired.

1,683,316. HEARING APPARATUS. ANTON VON SUCHORZYNSKI, Breslau, Germany. Filed July 27, 1925, Serial No. 46,372, and in Germany Feb. 5, 1925. 5 Claims. (Cl. 181—23.)



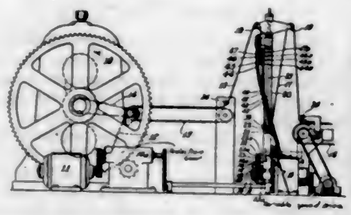
4. Apparatus for persons who are hard of hearing, comprising in combination a sound receiving diaphragm in the concha, a spiral spring fixed at one end to said diaphragm, a tube of soft rubber sheathing said spiral spring and having its free end formed as a membrane bag in contact with the membrane of the tympanum.

1,683,317. DEVICE FOR CONTROLLING THE FLOW OF FLUIDS. RICHARD E. B. WAKEFIELD, Chester, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 13, 1923. Serial No. 657,267. 8 Claims. (Cl. 236—92.)



1. In a device for controlling the flow of a fluid, the combination of a flexible conduit subject to the pressure of a controlling medium, a bi-metallic bar subject to the temperature of the fluid, and means for controlling the flow of said fluid in response to the flexing of both the conduit and the bar.

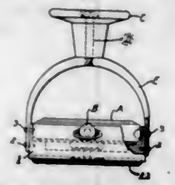
1,683,318. SPEED-CONTROLLING DEVICE FOR CONTINUOUS-STRIP-FEEDING MEANS. HARRY E. WANER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 20, 1927. Serial No. 207,119. 5 Claims. (Cl. 271—2.3.)



1. In combination with means for supporting a variable reserve supply of continuous strip material, means for feeding the material into the said supply, means for feeding the material out of the said supply, a variable-speed device interposed operatively between the two feeding means, and means responsive to the amount of material in the said supply for controlling the speed ratio of the said variable-speed device, the controlling means comprising fluid-pressure means having connection to the variable-speed device, feeler means mounted in position to be actuated by variation of the amount of material in the supply, and valve mechanism actuated by the feeler means and controlling the operation of the fluid-pressure means.

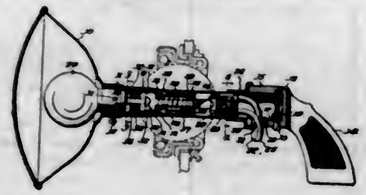
1,683,319. TIME STAMP. JOSEPH W. ADLON, St. Louis, Mo. Filed Dec. 20, 1926. Serial No. 155,904. 4 Claims. (Cl. 245—55.)

1. In a time stamp, a housing, a watch mounted in said housing, an elongated lever operatively connected to and extended radially from the shaft carrying the minute hand of said watch, a rotary member operatively associated with said lever and provided with a slot through which said elongated lever extends, a series of members operatively associated with said slotted member for moving two time-indicating pointers, one denoting the



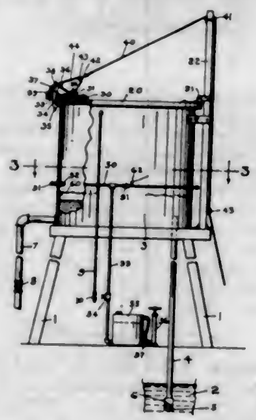
hour and the other the minute, and a printing pad having time-indicating characters thereon associated with said time-indicating pointers.

1,683,320. SPOT-LIGHT SWITCH. GEDOR W. ALDEEN, Rockford, Ill., assignor to Fyrac Manufacturing Co., Rockford, Ill., a Corporation of Illinois. Filed Feb. 20, 1925. Serial No. 10,500. 6 Claims. (Cl. 240—61.)



6. In combination, a tube, a lamp plug and a switch plug in said tube, the latter plug being oscillatory, current-supply wires connected to said switch plug, the tube having an opening from one end through which said wires are adapted to pass and emerge from the bottom of the tube, a handle having a barrel portion adapted to telescope over said end of the tube and having an opening from one end adapted to receive said wires and to register with said opening in the tube, means for securing said handle on the tube, and a switch-operating collar on the tube fitting over the forward end of the barrel and closing the end of the wire opening therein.

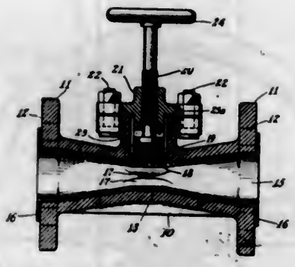
1,683,321. APPARATUS FOR RAISING WATER. CHARLES ANDERSON, Seattle, Wash. Filed July 14, 1927. Serial No. 205,684. 5 Claims. (Cl. 103—251.)



1. An apparatus for raising water, comprising a frame, a tank mounted on the frame, an inlet pipe, a discharge pipe, an air vent pipe, a cover for the tank, means for

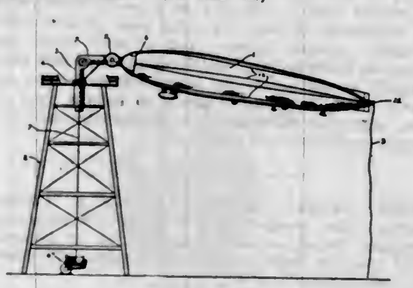
providing an airtight connection between the cover and the tank, means for locking the cover to the tank, means for unlocking and raising the cover, and means for creating flames within the tank whereby a vacuum may be established therein for raising water through the inlet pipe into the tank.

1,683,322. VALVE. BURTON B. ANNIS, Akron, Ohio, assignor to The B. F Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 7, 1926. Serial No. 114,163. 3 Claims. (Cl. 251—5.)



1. A valve comprising a rigid casing, a removable, collapsible, conduit constituting a lining therefor, and means traversing a wall of the casing for collapsing the conduit, an inner cross-sectional contour line of the said conduit constituting a figure tapering outwardly with reverse curvature to an acute apex at each hinge-line of the conduit when the conduit is in uncollapsed form.

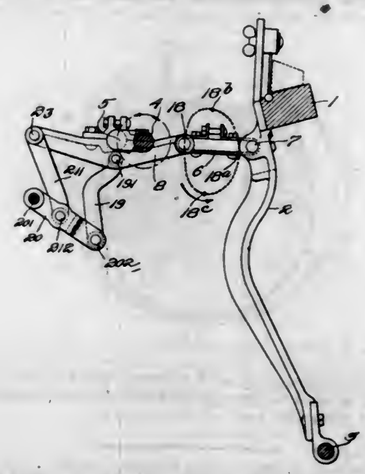
1,683,323. AIRSHIP ANCHORAGE. WILLIAM AUBERLIN, Northfield, Ohio. Filed Dec. 27, 1927. Serial No. 242,657. 1 Claim. (Cl. 244—2.)



A mooring rope attachment for airships, comprising a ring to which the rope is connected, a cap attached to said ring and covering the end of the airship, reenforcing bands of flexible material extending from end to end of the airship, and cable connections between said cap and the reenforcing bands, said cable connections being attached to the inside of the cap.

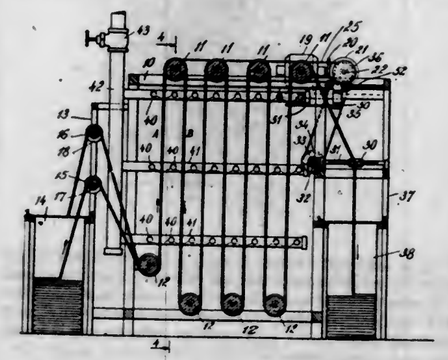
1,683,324. LAY MOTION FOR LOOMS. WILLIAM H. BAKER, Boston, Mass. Filed Oct. 4, 1927. Serial No. 223,932. 3 Claims. (Cl. 139—190.)

1. An improved lay-motion for looms, comprising in combination with an actuator-crank, a loom-lay, and a pitman having its front end connected with the lay, a lever having its front portion in pivotal connection with the rear end of said pitman, its intermediate portion operatively engaged with the actuator-crank, and its rear portion controlled by a fulcrum movable forward and rearward as said lever is moved by the actuator-crank, and means for raising and lowering the said fulcrum during each cycle of the actuator crank, through a less amplitude than the throw of the



said actuator-crank, the parts coacting to cause the said point of pivotal connection between the lever and the pitman to travel in a vertically elongated orbit.

1,683,325. PROCESS AND APPARATUS FOR WASHING FABRICS. OLAV BERG, Paterson, N. J. Filed Feb. 1, 1923. Serial No. 616,233. 6 Claims. (Cl. 8—19.)

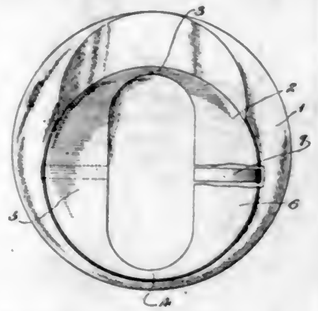


1. The process of washing fabrics which consists of supporting and feeding a plurality of lengths of fabric in rope form, substantially vertically and directing liquid mainly at an acute angle and as a substantially wholly undercutting stream, against the upwardly travelling and downwardly travelling laps of said fabric, said liquid being directed against opposite sides of the fabric and in the same plane, whereby to deflect the fibers of the fabric and facilitate cleaning thereof, while maintaining a steady travel of the laps in their respective planes.

1,683,326. SWEATBAND FOR HEAD COVERINGS. HAROLD T. BLUM, Glenmont, Ohio. Original application filed June 23, 1927, Serial No. 201,002. Divided and this application filed Sept. 19, 1927. Serial No. 220,546. 1 Claim. (Cl. 2—190.)

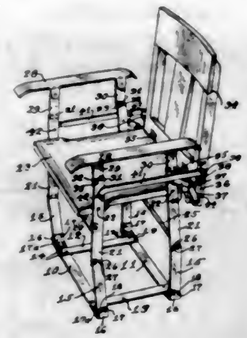
A combined sweat band and hair retainer for caps comprising a body of flexible material secured to the cap within the head receiving opening thereof, and adapted

to have snug engagement throughout its area with the head of the wearer, said body having a restricted front and back portion and widened side portions, and a stiffening



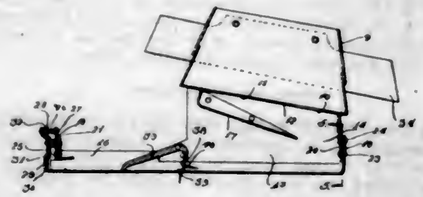
element associated with each widened side portion of the body and adapted to urge and hold said portions in close engagement with the head of the wearer.

1,683,327. FOLDING CHAIR. SLIMAN E. BOUHAROUN, Waterbury, Conn. Filed Oct. 25, 1927. Serial No. 228,577. 8 Claims. (Cl. 155—32.)



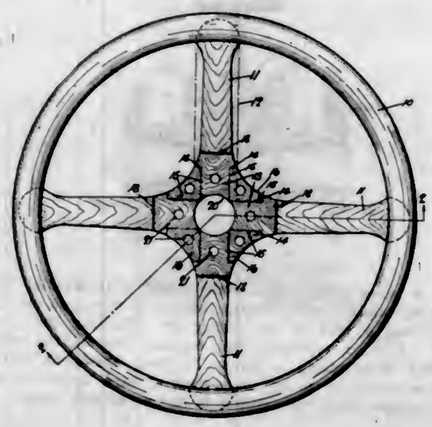
1. In a collapsible chair, a seat, a bottom frame, front and rear vertical jointed legs all pivoted to said seat and said bottom frame, a back hinged to said seat, and means operated by the swinging of said back for flexing said jointed legs and causing said chair to collapse into a small space upon said frame.

1,683,328. NAIL CONTAINER AND DISPENSER. OSCAR BREITHAUPT, Detroit, Mich. Filed July 9, 1927. Serial No. 204,508. 3 Claims. (Cl. 1—49.7.)



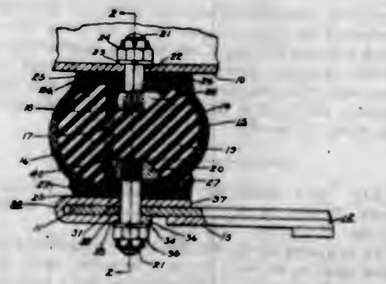
1. In a nail holder of the class described having a nail receiving trough open at one end; a closure for said open end of said trough, said closure having an opening formed centrally therein in registration with the center of said trough; and a separate closure for engaging in the opening in said closure and serving as a closure for said trough upon movement of said first mentioned closure to inoperative position.

1,683,329. STEERING WHEEL. RALPH H. CHILTON, Dayton, Ohio, assignor to the Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 31, 1923. Serial No. 683,536. 6 Claims. (Cl. 74—33.)



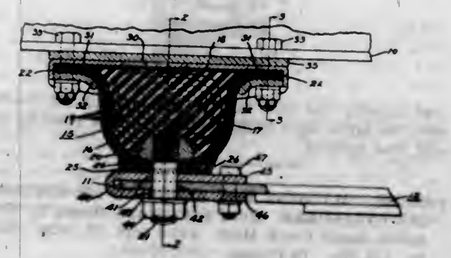
1. A steering wheel having a wood spider including, a plurality of wod spokes whose inner ends extend inwardly to a central bore, a plurality of separate wood blocks lying alternately between the inner ends of said spokes and rigidly secured thereto; and a wood cover plate covering the joints between said inner ends and said blocks and rigidly secured to the top surfaces of said inner ends and said blocks by adhesive means to form a rigid hub portion, said cover plate having a feather edge joint with the upper surface of said spokes.

1,683,330. SPRING SHACKLE. RALPH H. CHILTON, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 29, 1927. Serial No. 179,361. 13 Claims. (Cl. 267—30.)



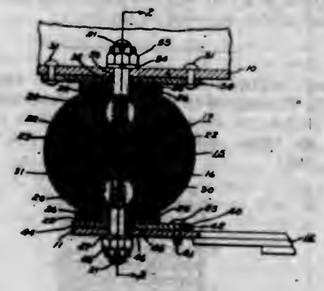
1. An extension shackle connecting two relatively movable members, said shackle comprising: a flexible rubberized fabric casing having opposite portions connected respectively to said movable members, an elastic soft rubber block within said casing and vulcanized thereto, and a flexible rubberized fabric tension web extending through said rubber block and having its ends secured to said movable members respectively.

1,683,331. SPRING SHACKLE. RALPH H. CHILTON, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,706. 6 Claims. (Cl. 267—30.)



1. An extension shackle connecting two relatively movable members, said shackle comprising: a flexible rubberized fabric web of approximately U-shape and having its two ends fixed to one of said movable members and its central portion fixed to the other of said movable members, and elastic rubber material within said web and vulcanized thereto for taking compression loads upon said shackle.

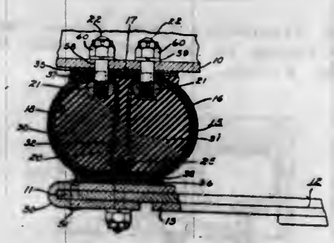
1,683,332. SPRING SHACKLE. RALPH H. CHILTON, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,707. 12 Claims. (Cl. 267—30.)



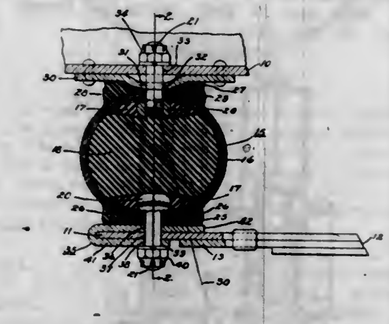
1. An extension shackle connecting two relatively movable members, said shackle comprising: a molded unit having a flexible rubberized textile casing vulcanized upon an interior elastic soft rubber block, means for fixing opposite portions of said unit to said movable members respectively, and a separately formed flexible transverse web extending through said rubber block and secured to said movable members respectively.

1,683,333. SPRING SHACKLE. RALPH H. CHILTON, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 30, 1927. Serial No. 187,836. 9 Claims. (Cl. 267—30.)

1. An extension shackle connecting two relatively movable members, said shackle comprising: a flexible rubberized fabric casing vulcanized upon an interior elastic rubber block, means for fixing opposite portions of said casing to said movable members respectively, and a flexible transverse loop of rubberized fabric extending through said rubber block and secured to said movable members respectively, said rubberized fabric loop being formed from strips of bias cut fabric whereby diagonally extending threads in one web of said loop extend at substantially equal and opposite angles in the other web of said loop.



1,683,334. SPRING SHACKLE. RALPH H. CHILTON, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 30, 1927. Serial No. 187,837. 9 Claims. (Cl. 267—30.)



1. An extension shackle connecting two relatively movable members, said shackle comprising: a flexible rubberized fabric casing having opposite portions connected respectively to said movable members, and elastic rubber material filling said casing and vulcanized thereto, said rubber material being more elastic adjacent said movable members than in the intermediate portion thereof.

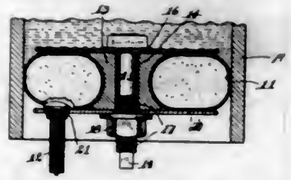
1,683,335. NAPKIN FOLD. PETER J. CHRISTMAN, Green Bay, Wis., assignor to Paper Converting Machine Co., Inc., Green Bay, Wis., a Corporation of Wisconsin. Filed June 25, 1926. Serial No. 118,433. 1 Claim. (Cl. 206—57.)



A folded rectangular sheet having a multi-ply body portion with the upper plies reversely folded intermediate their edges to provide a pleat on the upper side and with the lower plies folded intermediate their edges to provide a pleat in its lower side, whereby a body portion is formed

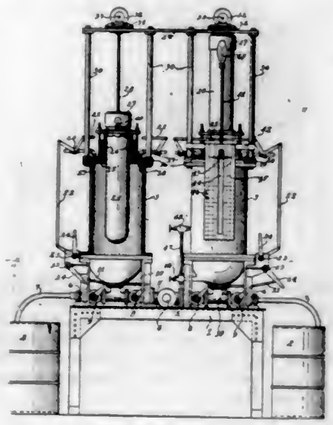
having a pleat on its upper side and having a pleat on its lower side, the pleats being distinct from each other, the upper and lower edges projecting outwardly in the same direction beyond the pleated body portion.

1,683,336. PLUMBING DEVICE. THOMAS PATRICK CUMMINGS, Chicago, Ill. Filed Oct. 22, 1927. Serial No. 228,094. 4 Claims. (Cl. 137—76.)



1. A plug of the kind described, comprising an annular inflatable member; a spool within said annular member, a pair of discs adapted to cooperate with said spool and inflatable member, means to clamp said discs to said spool, said means comprising a threaded member having a shank provided with a square end in order to prevent rotation of the threaded member when adjustments thereto are desired, and means whereby said inflatable member may be expanded.

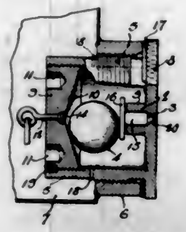
1,683,337. BARREL-FILLING APPARATUS. WILLIAM ERNEST, Martinez, and EMANUEL H. BAER, Associated, Calif. Filed Apr. 23, 1927. Serial No. 186,000. 4 Claims. (Cl. 221—113.)



1. An apparatus for the described purpose comprising a closed measuring receptacle having a liquid inlet and outlet; a vent in the upper portion of said receptacle; a connection for introducing air under pressure into the upper portion of said receptacle; valves in said vent and said pressure connection; means interconnecting said valves for simultaneous and opposite operation; and an adjustable displacement body within said receptacle for varying its volumetric capacity.

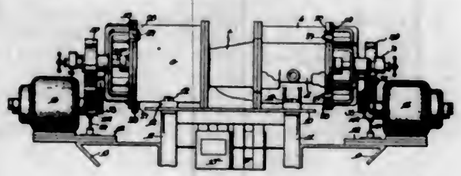
1,683,338. TANK CLOSURE. OLE EVINRUDE, Milwaukee, Wis., assignor to Elto Outboard Motor Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 20, 1924. Serial No. 757,189. 8 Claims. (Cl. 251—130.)

1. A cap of the character described comprising a casing provided with a vent opening leading directly to the atmosphere, a substantially spherical member arranged in said casing for movement therein laterally of the vent opening upon tilting of said cap, a valve interposed between said



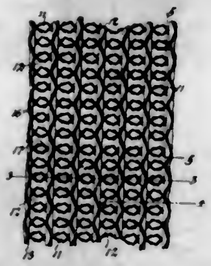
vent opening and said member and adapted for coaction with the latter upon such movement of the same to close said vent opening.

1,683,339. MACHINE FOR REBORING OR REFINISHING CYLINDERS. BURT J. FARR and MOSES H. WESTBROOK, Battle Creek, Mich. Filed Sept. 15, 1924. Serial No. 737,679. 12 Claims. (Cl. 77—3.)



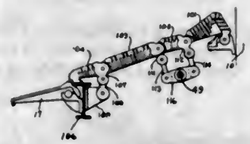
1. In mechanism for re-boring cylinders, the combination of a base for supporting a cylinder to be bored, a frame adapted to be removably connected to and supported by the cylinder, a boring-bar carried by the frame, a motor mounted on the base, driving means for the bar carried by the frame and shiftable as a unit into driving relation with the motor and a tool-carrier mounted on the bar.

1,683,340. RADIATOR CORE. JOHN M. FEDDERS, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Dec. 20, 1926. Serial No. 155,855. 3 Claims. (Cl. 257—130.)



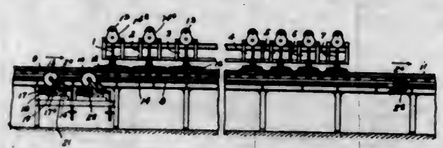
1. A radiator core and having a plurality of water passages and a plurality of air tubes arranged between said water passages each of said water passages having opposing walls formed between two strips of sheet metal the central part of each consisting of a row of wall sections which meet at their longitudinal edges and which have their end edges off-set, forming flanges which engage one another, and said air tubes being formed by a plurality of loops each having its edges connected with the meeting edges of two adjacent wall sections, and the summit of each loop engaging with a wall section of an adjacent strip.

1,683,341. STOKER. ROBERT A. FORESMAN, Moore, and JOHN E. LARRABEE, East Landsdowne, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1926. Serial No. 138,250. 22 Claims. (Cl. 110—44.)



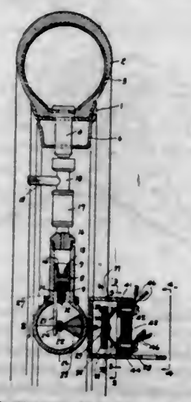
10. In a stoker, a retort, a ram in the retort, a progressive feed overfeed grate section pivotally support adjacent a side of the retort and receiving fuel therefrom, said grate section comprising a plurality of series of relatively narrow grate members having lateral recesses providing tuyère openings, the members of each series being pivotally connected together in end-to-end relation, means for raising and lowering a portion of each of the sections at an intermediate pivotally connected point thereof, an air box beneath the section, and yielding means for constraining the series of the section in abutting side-by-side relation.

1,683,342. APPARATUS FOR SURFACING PLATE GLASS. JOHN H. FOX, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Nov. 4, 1924. Serial No. 747,759. 7 Claims. (Cl. 51—240.)



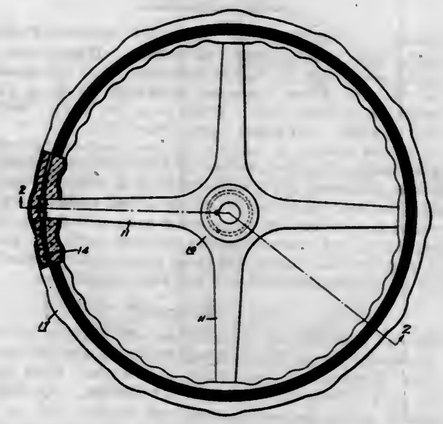
1. The combination with a series of surfacing machines and a series of cars or tables mounted for movement therebeneath so as to carry glass sheets mounted upon the tops of the cars beneath the machines, of driving means applied at the rear end of the series of cars to move them forward, and a retarding means at the forward end of the series of cars adapted to engage and release each car in turn, so that the cars intermediate the driving means and retarding means are placed under compression.

1,683,343. TIRE-PRESSURE INDICATOR. JOHN H. GARTNER, San Francisco, Calif., assignor of one-fifth to Patrick S. Higgins, one-fifth to James D. Skelly, and one-fifth to William Shackleton. Filed Feb. 15, 1927. Serial No. 168,374. 4 Claims. (Cl. 177—311.)



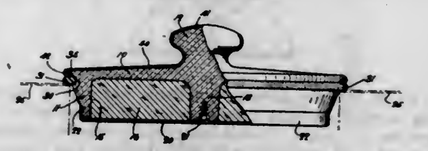
3. In a pressure indicator for a pneumatic tire, a movable magnetic element revolving with the tire, means for moving the same in response to changes in the tire pressure, and an electric circuit having a switch element mounted in operative proximity of the tire so as to be periodically passed by the magnetic element and to be subject to the influence thereof, the switch element being a pivoted lever and the magnetic element being mounted so as to normally pass the fulcrum thereof and to leave the lever unaffected but to move in the direction of one of the arms of the lever under the influence of a change in the tire pressure for operating the said arm.

1,683,344. STEERING WHEEL. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 12, 1926. Serial No. 101,341. 1 Claim. (Cl. 74—33.)



A steering wheel for automotive vehicles, comprising: a molded rubber rim having a reinforcing endless metal hoop possessing resilient qualities molded in place therein, and a metal spider having arms, the outer ends of said arms being recessed and secured directly to said hoop whereby said arms are prevented from piercing the body of the driver in case of a crash.

1,683,345. ICE-CREAM-CABINET LID AND METHOD OF MANUFACTURING THE SAME. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 9, 1927. Serial No. 218,553. 4 Claims. (Cl. 18—59.)



1. A removable lid for a container comprising: a main body member molded to shape from a bituminous plastic composition and having an outer celluloid casing molded in situ and interlocked with the molded material around the periphery of the lid.

1,683,346. METAL MOLDING. REMI J. GITS, Riverside, Ill. Filed Apr. 29, 1927. Serial No. 187,564. 1 Claim. (Cl. 296—135.)

A soft metal molding strip comprising a base, non-resilient lips on said base at the marginal edges, extending upwardly and inwardly and terminating in spaced relation to each other, in combination with a combined filler and sealing strip, said strip having a body portion of substantially the same width as the space between the lips, and a neck portion, said neck portion being of narrower width than said body portion, and a head portion,

said head portion being of greater width than said neck portion and said body portion, the body portion of said filler and sealing strip being adapted to freely pass between said lips, and the head portion being adapted to en-

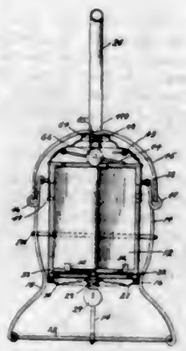


gage the top side of said lips and when forced downwardly towards said base to permanently crimp said lips in engagement with said neck portion for retaining said filler strip and base in assembled relationship.

1,683,347. PROCESS OF MAKING CHLOROFORM-SOLUBLE CELLULOSE ACETATE. HARRY LE B. GRAY and CYRIL J. STAUD, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 25, 1927. Serial No. 215,520. 3 Claims. (Cl. 260—101.)

1. In the process of making cellulose acetate, pretreating the cellulose with glacial acetic acid containing a mixed catalyst of sulfuric and phosphoric acids in which the latter acid is at least equal to the weight of the former, mixing acetic anhydrid into the pretreated mass to complete the acetylation, and conducting the reaction until the product is chloroform-soluble, the same mixed catalyst serving both in the pretreatment and the final acetylation.

1,683,348. ELECTRIC LANTERN. WILLIAM S. HAMM, Hubbard Woods, Ill., assignor to The Adams & Westlake Company, a Corporation of Illinois. Filed Mar. 8, 1924. Serial No. 697,922. 11 Claims. (Cl. 240—10.5.)



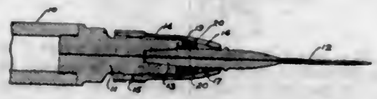
1. An electric lantern comprising a frame, a supporting member on said frame, a battery container on said member, a closure for said container, a reflector supported between said container and said member, and means for holding said closure on said container and for clamping said container and reflector on said supporting member.

1,683,349. HYPODERMIC SYRINGE AND MEANS FOR RETAINING SAME. GEORGE N. HEIN, San Francisco, Calif. Filed Oct. 4, 1926. Serial No. 139,245. 8 Claims. (Cl. 28—221.)



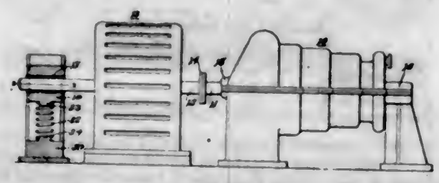
1. In a hypodermic syringe, a barrel and a detachable needle therefor, the latter formed with a smooth, tapered stem to enter a tapered socket on the barrel, and a coupling member between the needle and barrel having means to rotate the needle and cause the tapered stem to seat in the socket with a wiping effect, said coupling device being operative to release the needle without being removed from the barrel.

1,683,350. LOCK FOR HYPODERMIC NEEDLES AND THE LIKE. GEORGE N. HEIN, San Francisco, Calif. Filed Oct. 4, 1926. Serial No. 139,246. 4 Claims. (Cl. 128—221.)



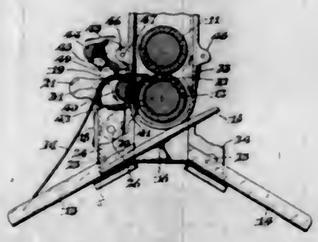
1. In a syringe, a nipple having a socket, and a needle having a base to fit within the socket of a locking device comprising a sleeve threaded onto the nipple, a clutch ring of slotted spring metal within the sleeve and surrounding the base of the needle, and means whereby, when the sleeve is screwed onto the nipple, the clutch ring will be compressed into locking engagement with the stem.

1,683,351. SHAFT BEARING. HERBERT T. HERR, Merion, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 10, 1922. Serial No. 535,527. 2 Claims. (Cl. 308—26.)



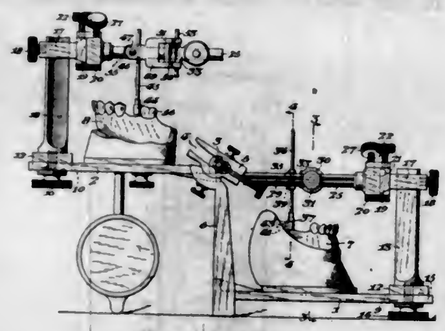
1. In an organization comprising a pair of shafts, fixed bearings for one of the shafts, a rigid coupling connecting the shafts end to end in power transmitting relation, a bearing resiliently supporting the other end of the second shaft, and means restricting motion of the movable bearing to a vertical plane, whereby the alinement of said bearings is maintained.

1,683,352. WRINGER. EMIL A. HERNER, Allentown, Pa. Filed Dec. 15, 1927. Serial No. 240,089. 12 Claims. (Cl. 68—32.)



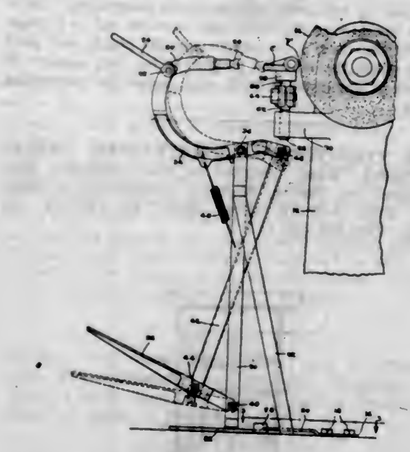
1. In a wringer, a pair of cooperating squeeze rollers, a feeding means including a relatively movable member with a tongue adapted to be overlapped by a margin of the material which is to be wrung for presentation of the material before the squeeze rollers, and means to advance the folded edge of the material into the bight between said squeeze rollers.

1,683,353. PARALLELING MECHANISM. GEORGE M. HOLLENBACK, Los Angeles, Calif. Filed Oct. 7, 1924. Serial No. 742,160. 16 Claims. (Cl. 32—10.)



1. A device of the class described, comprising a support, a forwardly directed spindle adjustable bodily in a lateral direction on said support, in a lineal path, and a tool carried thereby and mounted to rotate about three relatively normal axes, and arranged to move in three relatively angular planes.

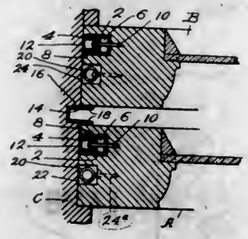
1,683,354. GRINDING-MACHINE ATTACHMENT. VERNON G. HONSTAIN and ARTHUR SMITHSON, Minneapolis, Minn. Filed Feb. 9, 1927. Serial No. 166,999. 4 Claims. (Cl. 51—240.)



1. A grinding machine attachment comprising a work rest upon which the article to be ground is adapted to be supported in proximity to the grinding wheel, a horizontal plate, means for adjustably securing said plate to the floor, a vertical support extending up from said plate, a movable member carried by the upper end of said support and adapted to engage said article, and means for exerting force upon said member for holding said article against the grinding wheel.

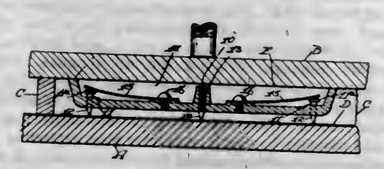
1,683,355. WEATHER STRIP. EARNEST R. HOPKINS, Kansas City, Mo. Filed Aug. 2, 1926. Serial No. 126,624. 1 Claim. (Cl. 20—52.4.)

A device of the character described consisting of channel bars of the same length as and adapted to be installed in grooves formed in edges of the window sash, bars of hollow rectangular cross section movably mounted in said channel bars, spring means interposed between the channel bars and said rectangular bars to force the latter against the window frame, and means for holding said bars and said spring means in assembled position in the window sash



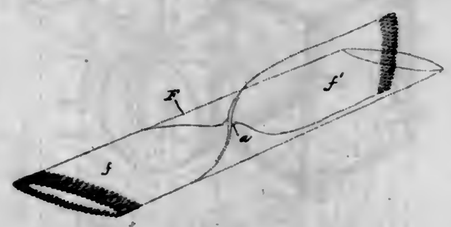
consisting of a plurality of elements extending loosely through the rectangular bars and the channel bars and firmly secured in the window sash.

1,683,356. CORE MEMBER FOR CASTING PRINTING PLATES. IRA E. HURLBUT, Prairie du Chien, Wis. Filed Dec. 7, 1925. Serial No. 73,636. 7 Claims. (Cl. 22—5.)



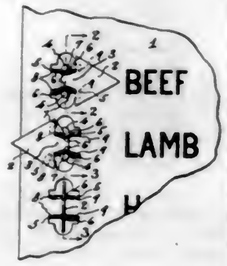
1. A core member for casting printing plates having pressure points mounted for protruding from its inner face for stepping on the matrix, said core member comprising a core body less than type height, the pressure points being afforded by pins set through the core body for protruding from the face, means for yieldingly holding the pins protruded, and means for limiting the protruded length, said protruded length being more than the deficiency in type height of the core body; whereby said pressure points stepped upon the matrix uphold the core body to a height in excess of type height.

1,683,357. METALLIC ABRASIVE SCOURING DEVICE. RUSSELL B. KINGMAN, Orange, N. J. Filed Apr. 23, 1926. Serial No. 104,007. 2 Claims. (Cl. 15—208.)



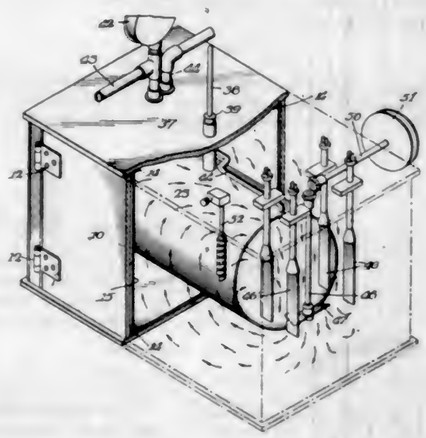
1. A scouring ball, comprising a tubular abrasive fabric twisted together intermediate its ends to provide a fixed restricted portion to divide the same into two sections, one section being balled together to form a substantially spherical center core, the other section being folded around said center core to form a continuous enveloping outer cover member, the free end portion of said cover member being intertwisted together with the adjacent underlying portion of said center core to interlock such portions together and thereby secure the cover member against separation from the core.

1,683,358. INDICATOR FOR MEMORY-CHECKING DEVICES. RUSSELL B. KINGMAN, Orange, N. J., assignor to Useful Products Company, West Orange, N. J., a Corporation of New Jersey. Filed May 27, 1927. Serial No. 194,602. 3 Claims. (Cl. 116—134.)



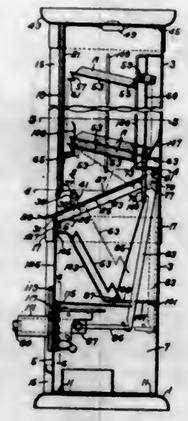
1. In a memory-checking device having a metallic plate inscribed on its face with itemized information, pointer members adjacent to and corresponding to the respective items of information, said pointer members having at their rearward ends laterally and oppositely projecting journal tongues, perforate ears struck up out of said metallic plate to provide bearings for said journal tongues, yieldable means on said ears and cooperative with said pointer members adapted to retain the latter against accidental displacement from either indicating or non-indicating position, said pointers having a respective part extending therefrom adapted for stopping said pointer members in spaced relation to said plate when occupying either indicating or non-indicating position.

1,683,359. VACUUM OVEN. PAUL E. KLOPSTEG, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 23, 1926. Serial No. 156,628. 18 Claims. (Cl. 219—35.)



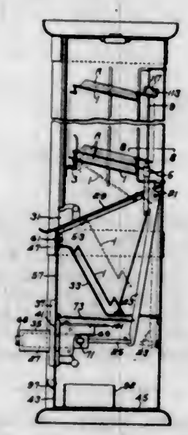
1. In a vacuum oven, a bath comprising a container with oil therein, a vacuum chamber projecting into the oil from one side of the container, a cluster of removable electric heating units projecting into the oil from above and adjacent to the end of the vacuum chamber, and means to force the oil to travel in a circuit passing the heating element and about the vacuum chamber.

1,683,360. VENDING MACHINE. CHARLES LEA, Boston, Mass., assignor to The Automatic Merchandizer Inc., Boston, Mass., a Corporation of Delaware. Filed July 15, 1926. Serial No. 122,623. 16 Claims. (Cl. 312—94.)



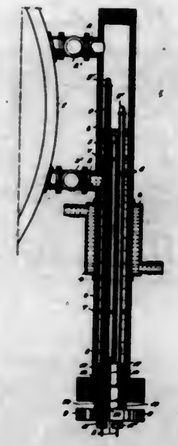
1. A vending machine having, in combination, means for maintaining a stack of articles comprising a plurality of superimposed article-supporting-members, means engaging the lowermost member for supporting the stack, and means for successively releasing said members comprising a movable part for moving the lowermost member out of engagement with said means for supporting the stack, said part acting to guide the released member after said member is moved out of engagement with said means for supporting the stack.

1,683,361. COIN-CONTROLLED MECHANISM. CHARLES LEA, Boston, Mass., assignor to The Automatic Merchandizer Inc., Boston, Mass., a Corporation of Delaware. Filed July 15, 1926. Serial No. 122,624. 21 Claims. (Cl. 194—57.)



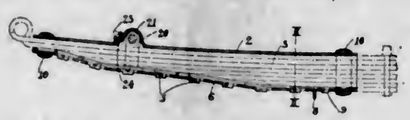
1. A coin controlled apparatus having, in combination, a reciprocatory member, a locking member, a part for engagement with said locking member connected to said reciprocatory member for relative movement to permit limited movement of said reciprocatory member, and means rendered operative by a coin when inserted for disengaging said part and locking member upon such limited movement of said reciprocatory member to permit extended movement of said reciprocatory member.

1,683,362. FLUID-LEVEL INDICATOR AND LEADING-IN ARRANGEMENT FOR ELECTRODES IN HOT HIGH-PRESSURE ROOMS. STEPHAN LÖFFLER, Berlin-Charlottenburg, Germany. Filed May 22, 1925, Serial No. 32,115, and in Germany May 31, 1924. 9 Claims. (Cl. 200—152.)



1. A liquid level indicator for fluid containing chambers in which a high temperature and a high pressure exists, comprising a vessel and connection therefrom to said chamber, said vessel having a terminal portion thereof extending beyond the joints of said connections to said vessel in a direction such that said portion will form a dead space through which there will be no circulation of the fluid from said chamber, an electrical conducting liquid contained within said vessel, a cooling jacket for said vessel, an electrode passing through the end of said portion, extending into said vessel and terminating adjacent to said joints, and packing for forming a liquid tight, electric insulating joint at the passing-in place of said electrode.

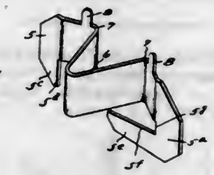
1,683,363. GAITER FOR USE ON SUSPENSION SPRINGS. HERBERT LORD, Coventry, England. Filed June 19, 1926, Serial No. 117,078, and in Great Britain June 23, 1925. 3 Claims. (Cl. 267—37.)



1. A cover for a vehicle spring comprising a piece of flexible material provided with wedge shaped projections at intervals along the edges thereof, a flexible closure plate provided with corresponding wedge shaped apertures adapted to engage the aforesaid projections.

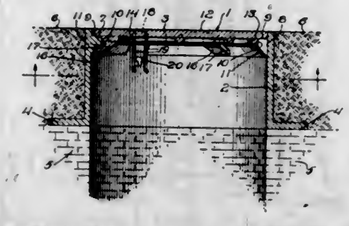
1,683,364. CLAMPING DEVICE. JAMES F. LOUCKS, Cleveland, Ohio, assignor of one-half to Harry Gillett, Gates Mills, Ohio. Filed June 6, 1924. Serial No. 718,213. 5 Claims. (Cl. 189—35.)

3. As an article of manufacture, a clamp for securing a metal sheet to a structural beam, said clamp comprising an intermediate spacing and supporting portion, means projecting upwardly from each end thereof for securing the same to a metal sheet and beam engaging portions projecting downwardly therefrom for securing said clamp to a



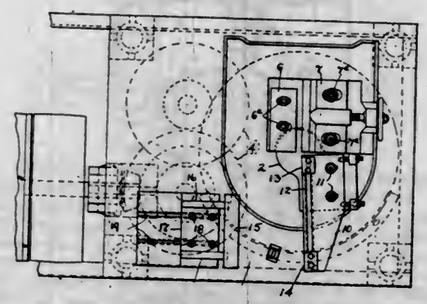
beam, said intermediate portion being bent to permit the beam engaging portions to be sprung apart for application to said beam.

1,683,365. STREET-MANHOLE COVER. HENRY LOUDENSLAGER and WALTER J. LOUDENSLAGER, Columbus, Ohio. Filed Sept. 26, 1927. Serial No. 221,935. 4 Claims. (Cl. 94—35.)



1. A manhole closure comprising a base section and a separable cover section, said base section being formed to include a plurality of internally situated, relatively spaced seating flanges, a plurality of spaced lugs integrally formed with the under side of said cover section and arranged for registration with the spaces provided between said flanges, whereby upon partial rotation of said closure section said lugs may be moved into locking engagement with the under surfaces of said flanges, and a handle member carried by said cover section and arranged for engagement with a stationary tongue formed with said base section to lock said cover section against rotary movement of an accidental character.

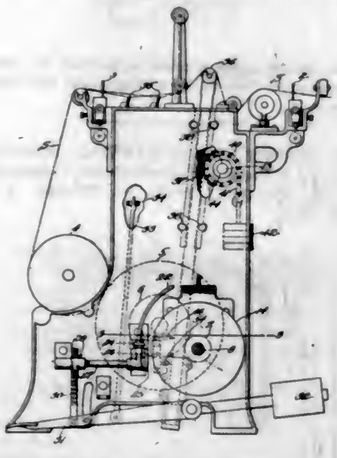
1,683,366. BAR-BENDING MACHINE. STANLEY MACOMBER, Massillon, Ohio, assignor to The Macomber Steel Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 21, 1925. Serial No. 57,608. 6 Claims. (Cl. 153—16.)



1. In mechanism of the character described, the combination of a pair of parallel blocks adapted to grip a length of bar therebetween; an arm oscillatorily mounted about an axis adjacent one end of said blocks; two blocks relatively adjustably mounted on said arm and adapted to contact at longitudinally spaced points with a portion

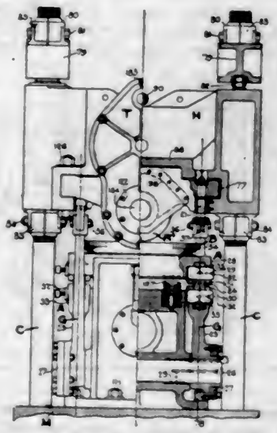
of such bar projecting beyond said first-named blocks; and a stop located in the path of travel of the outer of the blocks on said arm and, having a stop-face lying substantially parallel with said gripping blocks.

1,683,367. WARPER. JAMES TURNER MELCHOR, Mooresville, N. C., assignor to Saco-Lowell Shops, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 4, 1924. Serial No. 747,785. 12 Claims. (Cl. 28—50.)



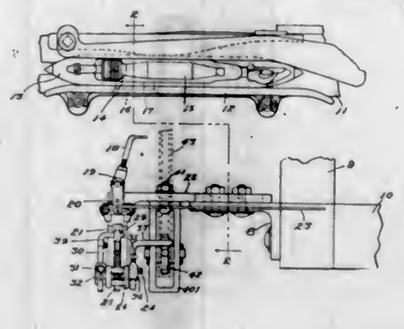
1. In a warper having an automatic, detector-controlled stop motion, the combination of a rise roll, and mechanism under control of said rise roll for interrupting the operation of said stop motion after its action has been initiated and preventing the completion of said operation until the rise roll has been lowered to substantially its normal running position.

1,683,368. MACHINE FOR ROLLING WHEEL DISKS. EMIL A. NELSON, Abington, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 9, 1925. Serial No. 21,797. 54 Claims. (Cl. 80—16.)



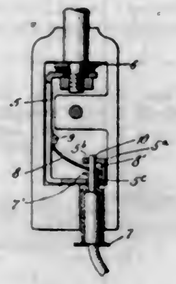
1. A machine of the character described comprising a head carrying a radially traversing blank working roll and a rotating blank support, said head and support having a relative movement of approach and separation to present the work to and remove it from the action of said roll, means for traversing said roll, and means operative as a result of said traverse to effect said approach and separation movements.

1,683,369. LOOM FEELER MECHANISM. PATRICK F. O'BRIEN, Franklin, Mass. Filed Sept. 23, 1925. Serial No. 58,067. 7 Claims. (Cl. 139—270.)



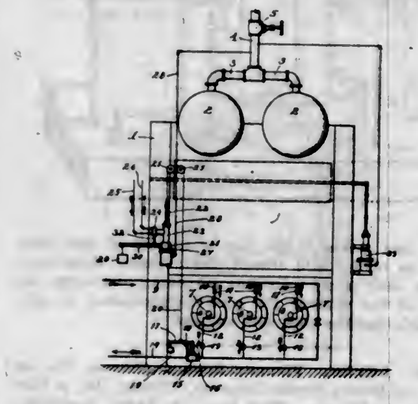
1. In an intermittent feeler mechanism for looms, in combination, a feeler having an inclined cam shoulder, and a detent having a roller engaging said shoulder when the feeler is in retracted position to lock the same in inoperative position and to impart to said feeler an additional retractive movement.

1,683,370. CONNECTING PLUG. LOUIS GERARD PACENT, Winfield, N. Y., assignor to Pacent Electric Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 14, 1923. Serial No. 618,887. 1 Claim. (Cl. 173—361.)



A device for making electrical connections comprising a rigid conducting member having a pair of substantially aligned apertures, a push button slidably disposed in one of said apertures, the other of said apertures being adapted to receive a conductor, said push button being apertured to permit the insertion therethrough of the said conductor, a resilient member fixed at one end and having means at its free end portion for engaging and restraining the said conductor against withdrawal, said push button being operable to flex said resilient member for disengaging the latter from the said conductor to permit its withdrawal.

1,683,371. METHOD AND APPARATUS FOR CONTROL OF THE BURNING OF LIQUID FUEL. ERNEST H. PEABODY, Pelham Manor, N. Y., assignor to Peabody Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 17, 1922. Serial No. 582,471. 12 Claims. (Cl. 236—26.)



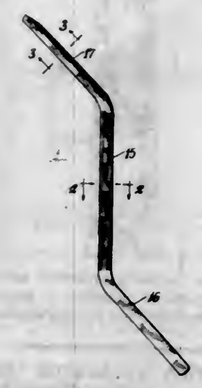
1. A method of burning liquid fuel in the combustion chamber of a boiler which comprises delivering the fuel under pressure to a point of atomization, controlling the amount of air supplied, returning an unatomized portion of the fuel from a point adjacent the point of atomization, controlling the amount of fuel atomized by varying the amount returned, regulating the amount returned by the pressure variation of steam generated in the boiler, and controlling the air supply by a predetermined higher pressure of the steam both when the pressure is rising and when it is falling.

1,683,372. CONTROL MEANS FOR GAS APPARATUS. PIERRE PLANTINGA, Cleveland, Ohio; The Cleveland Trust Company executor of said Pierre Plantinga, deceased. Filed June 4, 1924. Serial No. 717,873. 4 Claims. (Cl. 277—1.)



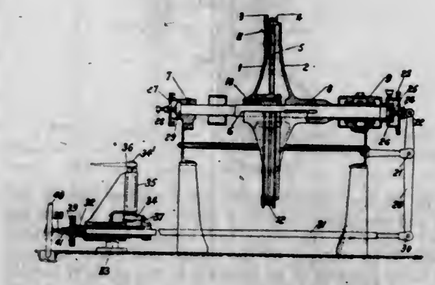
4. The combination of a gas duct; valve mechanism associated therewith and including two spaced valve discs forming an intermediate chamber; means for actuating said discs to assume their opening and closing positions; and a second and independent source of cooling fluid communicating with said chamber, said cooling fluid being under pressure greater than that of the gas in said duct.

1,683,373. JOINTER. WILLIAM ROSS and EDWARD ROSS, Brooklyn, N. Y. Filed Apr. 26, 1927. Serial No. 186,615. 1 Claim. (Cl. 72—138.)



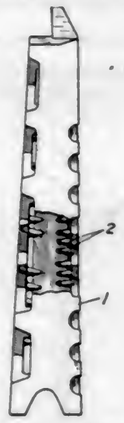
A slicker comprising a handle of rectangular cross-section, a pair of work elements formed integrally at the ends of said handle in planes parallel to each other, one of said elements being half-round in cross-section and the other of said elements being similar in cross-section to said handle.

1,683,374. DRIVING MECHANISM FOR PAPER AND OTHER MACHINES. JOHN WHITE, Edinburgh, Scotland. Filed Jan. 28, 1928, Serial No. 250,161, and in Great Britain Feb. 2, 1927. 3 Claims. (Cl. 64—8.)



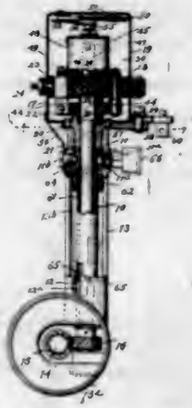
1. Driving mechanism for paper-making and like machines comprising an expansion pulley constituted by axially separable cone pulley portions, at least one idle pulley embraced by said pulley portions, thrust-receiving means tending to resist axial separating movement of said pulley portions, adjustable means for determining the axial spacing of said pulley portions, and a controlling device for said thrust receiving means, said controlling device operable manually to permit relative movement apart of said pulley portions away from a position determined by the setting of said adjustable means, to interrupt transmission of the drive through said expansion pulley, and to effect relative return movement of said pulley portions to exactly the same determined position.

1,683,375. RADIANT FOR HEATERS AND THE LIKE. OSCAR WIEDERHOLD, Philadelphia, Pa. Filed Nov. 10, 1927. Serial No. 232,247. 4 Claims. (Cl. 126—92.)



1. A radiant of ceramic material having projections thereon, said projections including a porous oxide incandescent at comparatively low temperatures.

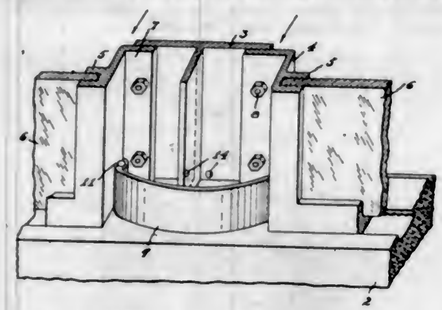
1,683,376. IGNITION APPARATUS. JOSEPH A. WILLIAMS and ALBERT G. KARKAU, Cleveland, Ohio, assignors to the K-W Ignition Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 7, 1924. Serial No. 684,723. 20 Claims. (Cl. 123—146.5.)



1. In an ignition apparatus for a system having primary and secondary circuits, a rotor carrying a brush and a case enclosing the rotor and having spaced contacts adapted to be engaged by the brush, said brush and contacts being adapted to be included in the primary circuit, said case additionally enclosing a circuit breaker for interrupting the circuits established by the engagement of the brush with the contacts, and a condenser for bridging the contact points of the circuit breaker, said condenser being carried by the rotor.

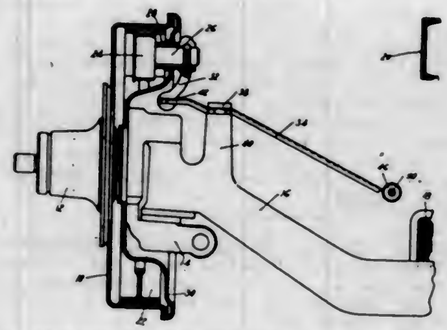
1,683,377. WATER BARRIER FOR WINDOWS AND THE LIKE. CHARLES H. WILSON, Pelham, N. Y. Filed Nov. 28, 1927. Serial No. 236,208. 9 Claims. (Cl. 20—70.)

1. A water barrier adapted to be used on a window sill in conjunction with a window frame subject to rain seepage on the interior thereof comprising a plate adapted to be sprung into operable position with respect to said sill and frame providing a trough like chamber thereby, gutter means integral with said plate, means associated with said gutter means adapted to retain said plate in watertight condition in sprung position relative to said frame



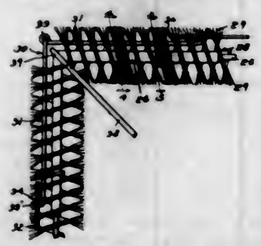
and sill, and means at the line of contact of said plate and sill to render said trough like chamber watertight, means in said frame providing an outlet discharge the exterior of the window for water accumulated in said trough like chamber thru rain seepage.

1,683,378. LEVER. VINCENT BENDIX, Chicago, Ill., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1926. Serial No. 135,538. 1 Claim. (Cl. 74—5.)



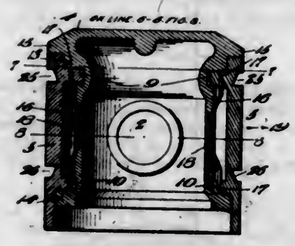
A brake-applying lever comprising a substantially flat stamping having a pivot bearing between its ends and formed at one end with a thrust portion, the opposite end of the stamping being twisted to a plane at right angles to the body of the lever and dished to form a semi-spherical socket adapted to form part of a ball-and-socket joint for attachment to operating connections.

1,683,379. CHIMNEY CLEANER. CLARENCE R. BICKFORD, Northwood Narrows, N. H. Filed Feb. 21, 1927. Serial No. 169,961. 6 Claims. (Cl. 15—249.)



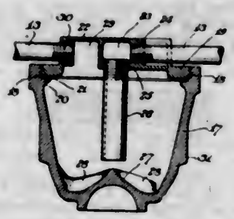
1. A chimney cleaner comprising a support embodying a plurality of sides, tubular brushing elements mounted upon said sides and adapted to turn thereon, and an adjustable clamping frame having sides corresponding in number and arrangement to the sides of the frame and adapted to engage with the tubular brushing elements to prevent their turning movement, and means to move the frame.

1,683,380. SELF-EXPANDING PISTON. JOSEPH A. BROCKMEYER, Brookline, Pa. Filed July 16, 1925. Serial No. 43,903. 4 Claims. (Cl. 74—108.)



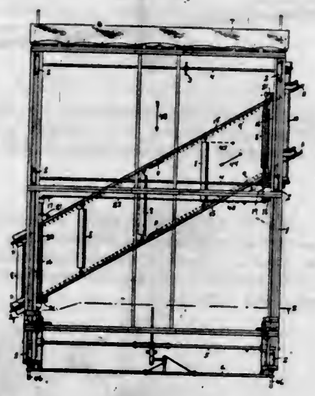
1. A piston comprising an inner core member, an outer shell surrounding said core and formed of a plurality of longitudinal segments, and a resilient means operatively interposed between each of said segments and said core, urging the former outwardly of the latter in a yieldable manner; the contiguous longitudinal edges of said segments being alternately provided with opposed tongue and groove portions extending longitudinally of said edges, which telescope into one another in the operative position of said shell, thereby to seal the joint between said edges.

1,683,381. WATER COOLER. HARRY K. BUSH, Pottstown, Pa., assignor to Reading Foundry and Supply Co., a Corporation of Pennsylvania. Filed Oct. 31, 1925. Serial No. 65,968. 2 Claims. (Cl. 257—196.)



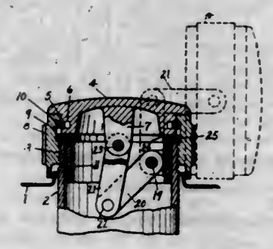
2. In a water cooler, a unit comprising a hollow frustoconical casing integrally closed at its smaller end, said smaller end of the casing having an internal extension and curved vanes associated therewith adapted to impart a swirling motion to water passing through the unit, a removable cap member secured in the larger end of said casing, said cap member having two chambers, an inlet pipe connected to the cap member and in communication with one of said chambers, a pipe mounted in said cap member in communication with said chamber and extending within the casing and terminating adjacent the smaller end thereof, and an outlet pipe connected to the cap member and communicating with the other chamber thereof.

1,683,382. CONCRETE-ROAD MACHINE. EDWARD G. CARR, Shorewood, Wis., assignor to The Lakewood Engineering Company, Lakewood, Ohio, a Corporation of Ohio. Filed Nov. 20, 1919. Serial No. 339,306. 6 Claims. (Cl. 94—50.)



1. The combination in a concrete road machine of a frame, a squeegee arranged longitudinally of the frame, and means for moving the squeegee diagonally with respect to the frame so that the effective movement of the squeegee will be transversely of the road.

1,683,383. CLOSURE FOR RADIATORS AND THE LIKE. GEORGE LEHMAN CHAPEL, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Filed Oct. 15, 1927. Serial No. 226,394. 8 Claims. (Cl. 220—24.)



5. The combination of a threaded neck, a cap having an annular external groove, a collar internally threaded to coact with said neck and having an internal annular groove, a slit ring disposed in said groove in said cap to engage said groove in said collar whereby the collar is rotatably connected to the cap, an anchoring member disposed within the neck, and links pivotally connected to each other and to said cap and anchoring member permitting the cap to be swung upwardly and to the side of the neck when said collar is unscrewed from the neck.

1,683,384. WRENCH HANDLE ATTACHMENT. JOSEPH EDWARD DURHAM, Jr., and DAVID HUME, Allentown, Pa., assignors to Bonney Forge & Tool Works, Allentown, Pa., a Corporation of Pennsylvania. Filed May 3, 1927. Serial No. 188,434. 2 Claims. (Cl. 81—177.)

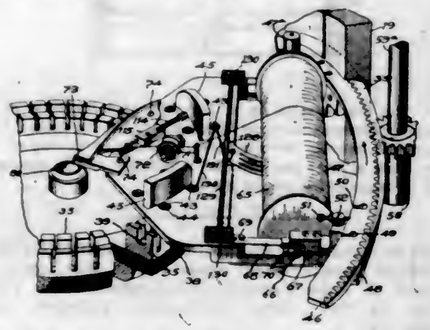
1. As a new article of manufacture, a socket wrench attachment comprising in combination a rod forming a handle, a one piece member, having a socket wrench formed integral therewith which is of lesser length than said member and slidable along said rod, said member being apertured to form a ball seat, the longitudinal axis of said

aperture at right angles to the longitudinal axis of said rod, with the longitudinal medial line of said aperture in a plane above the longitudinal medial line of said rod, a



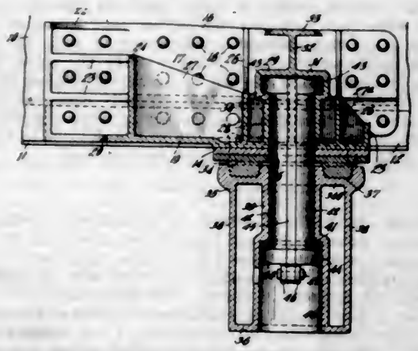
spring pressed ball abutting against said rod tangentially to the upper periphery thereof, and a closure to maintain said spring pressed ball in frictional tangential contact with said rod.

1,683,385. CIRCULAR LOOM. OTTO A. FREDERICKSON, Wethersfield, Conn., assignor to The Wiremold Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 3, 1924, Serial No. 696,458. Renewed July 7, 1928. 19 Claims. (Cl. 139—13.)



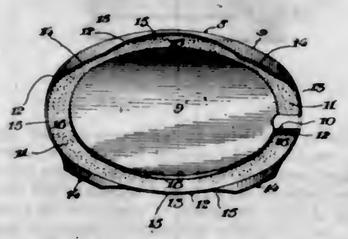
1. A circular loom, comprising in combination, a supporting frame, a fixed drum supported by the frame and having a shuttle race-way formed as a groove in the inner wall of the drum, a warp ring within the drum and positioned below the inner portion of the shuttle, a shuttle supported by the warp ring, means for driving the shuttle, and a wear plate extending radially from the shuttle into the groove of the race-way and adjustably secured to the shuttle for adjustment therenpon to take up wear.

1,683,386. CAR CONSTRUCTION. WILLIAM A. GRIGER, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed June 4, 1927. Serial No. 196,542. 8 Claims. (Cl. 105—199.)



1. In car construction, the combination with the underframing of a railway car, including center sills and a body bolster; of a filler casting having side walls secured to said center sills and a bottom wall connecting said side walls, and a cylindrical center pin receiving member opening through said bottom wall, formed integrally therewith and extending upwardly therefrom, said cylindrical member being provided with an enlargement closing the upper portion thereof and providing an annular shoulder; a truck bolster provided with a center pin opening and having means providing an off-set forming an annular shoulder; and a split locking pin comprising side members having flanges at their opposite ends, and insertable into the cylindrical member in the filler casting and the king pin opening in said truck bolster, and a spreader connected to said pin for maintaining the side members in spaced relation to cause engagement of the flanges thereof with the annular shoulders of said filler casting and of said truck bolster.

1,683,387. COMBINED CAP OR CLOSURE AND LINER PLATE. CHARLES HAMMER, Hollis Court Boulevard, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed July 27, 1925. Serial No. 46,221. 5 Claims. (Cl. 215—38.)



1. A metal liner plate or sealing disk for use with a cap, said sealing disk having a gasket therein and a shallow depending flange extending below the gasket and provided with a plurality of recesses for the insertion of a vacuum releasing instrumentality, said recesses having their upper edges located at the under side of the gasket whereby the gasket is completely covered and protected all around its outer edge by the depending flange.

1,683,388. COMBINED LUG CAP AND LINER PLATE. CHARLES HAMMER, Hollis Court Boulevard, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 7, 1927. Serial No. 231,511. 9 Claims. (Cl. 215—44.)

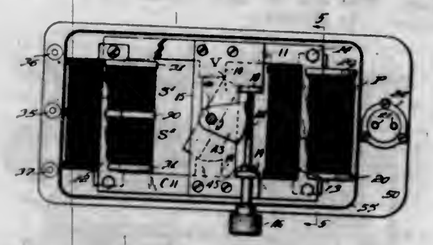


1. A combined cap and liner plate having a gasket, said cap and plate each having a depending flange, the flange of the cap having inwardly extending locking lugs and the flange of the plate having recesses in number and size to permit the cap lugs to register and pass therethrough on the backward rotation of the cap, thereby to permit the cap to be readily removed without first releasing the liner plate.

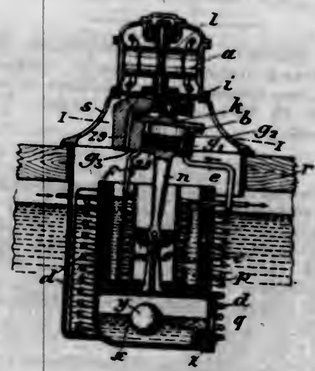
1,683,389. TRANSFORMER. FRANK J. KAEHNI and WILLIAM L. KAEHNI, Cleveland, Ohio. Filed June 8, 1922. Serial No. 566,807. 2 Claims. (Cl. 171—119.)

1. In a transformer, the combination of a closed magnetic core in substantially rectangular form, a primary winding associated with one leg of the core, a secondary winding associated with the opposite leg, inwardly projecting pole pieces carried by the remaining legs of the core, a shaft located midway between the pole pieces, a shunt block of magnetic material carried by the shaft and

having curved surfaces complementary to said pole pieces, the width of the block being substantially equal to the width of the pole pieces, means associated with the core for supporting said shaft and for holding it in adjusted position, said means permitting rotation of the shunt block but preventing axial and lateral movement thereof.

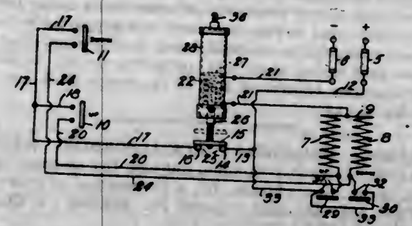


1,683,390. COMPRESSER. EMIL KÄGI, Winterthur, Switzerland, assignor to the Firm Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Filed Sept. 3, 1926, Serial No. 133,321, and in Switzerland Sept. 7, 1925. 10 Claims. (Cl. 230—137.)



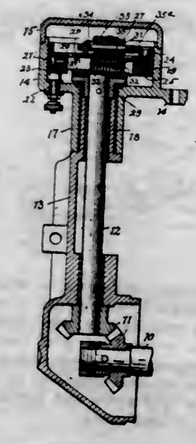
1. A compressor comprising a shallow casing, a disk shaped displacement member disposed therein, and means for imparting an orbital movement to said casing to produce a relative movement between said member and said casing.

1,683,391. ELECTRICALLY-CONTROLLED DUMB-WAITER. JAMES G. MACLAREN, Mamaroneck, N. Y. Filed July 5, 1924. Serial No. 724,544. 3 Claims. (Cl. 187—29.)



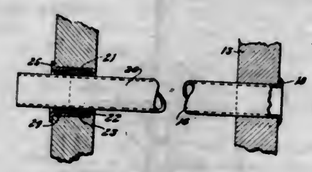
3. In electrical controlling means for dumb-waiters, a starting circuit, a main car control circuit, a circuit controller arranged to open or close a gap in the starting circuit, said circuit controller being arranged to be set into operation to open the gap when current flows through the starting circuit and to be maintained in gap-opening condition by the flow of current in the main control circuit, said controller operating to automatically close the gap in the starting circuit upon cessation of the flow of current in the main circuit, and adjustable means for retarding the gap-closing operation of the controller to provide a time interval following the stopping of a car at a station before the car can be again started.

1,683,392. TIMER. MARION MALLORY, Toledo, Ohio, assignor, by mesne assignments, to The K-W Ignition Corporation, Cleveland, Ohio. Filed Dec. 26, 1922. Serial No. 608,890. 2 Claims. (Cl. 200—21.)



1. In a timer for ignition systems, a stationary element in the form of an insulating ring having segments and a circuit breaker cam ring attached thereto, a rotor within the rings carrying a radially disposed brush for successively engaging the segments and a circuit breaker having a contact member fixed to the rotor and a radially disposed, slidable, spring-pressed contact member electrically connected to the brush and engageable with the cam.

1,683,393. CONDENSER. DAVID W. R. MORGAN, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 9, 1922. Serial No. 580,719. 2 Claims. (Cl. 285—45.)



1. A condenser tube fastening for slidably mounting a tube in a tube sheet with a fluid tight fit, comprising a tube sheet having openings therein, certain of said openings having smooth walled counterbores, a ferrule engaging a portion of said counterbore with a driven fit and a packing between the tube and the ferrule and between the tube and that portion of the counterbore which is not engaged by the ferrule.

1,683,394. TRACK LEVEL. DAN K. NEWMYER, Houston, Tex. Filed Feb. 16, 1926. Serial No. 88,509. 2 Claims. (Cl. 33—145.)

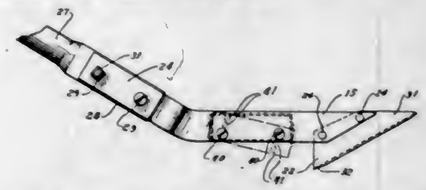
1. In a track level a rigid body member, a stop member at one end on the lower side thereof, a staff at the opposite end on the vertical side thereof, said staff comprising an

upright plate and a foot member extending beneath and transversely of the body member to engage the rail, said plate being adjustable vertically and also in various an-



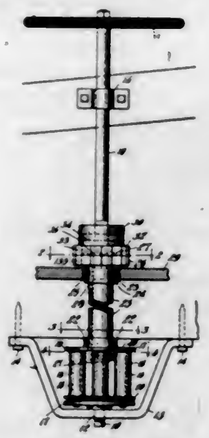
gular positions on said body, whereby said staff may lie parallel with said member, said foot engaging the end of said member, and a scale formed on one side of said staff in the manner described.

1,683,395. CULTIVATING IMPLEMENT. MARTIN OAKLAND, Chicago, Ill. Filed Apr. 5, 1927. Serial No. 181,084. 9 Claims. (Cl. 97—58.)



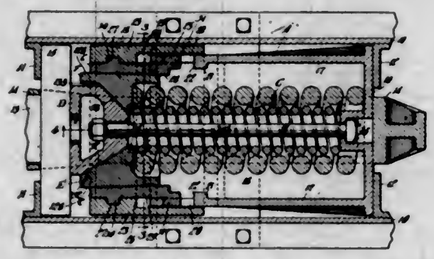
1. In a cultivating implement, a downwardly inclined scoop having a forward cutting edge, a pair of lateral supporting members extending forward from said scoop, an elongated handle secured to said supporting members, means for adjustment of said supporting members on said handle, and a flat member supported by said lateral members intermediate said scoop and handle for determining the depth of cut of said scoop.

1,683,396. HAND BRAKE. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Oct. 9, 1922. Serial No. 593,187. 10 Claims. (Cl. 254—149.)



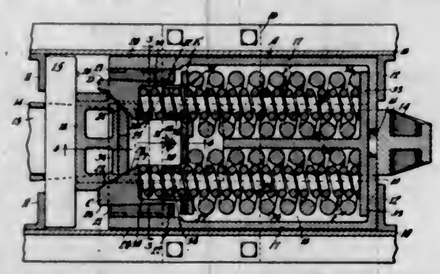
1. In a hand brake for railway cars; the combination with a manually operable vertical staff about which the brake chain is adapted to be wound; of a member rotatable on said staff about which the brake chain is adapted to be wound also; a clutch interposed between said member and staff; a ratchet secured to said staff; a ratchet secured to said member; and pawl mechanism coacting with each of said ratchets, said pawls being relatively movable, and being engageable with one another so as to be operable in unison to disengage from said ratchets.

1,683,397. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 31, 1927. Serial No. 164,884. 12 Claims. (Cl. 213—24.)



1. In a friction shock absorbing mechanism, the combination with a spring cage less than the full compression stroke of the mechanism; of a friction shell, said shell and cage being relatively movable; removable means for lining said shell, said removable means being anchored to the spring cage, said anchorage providing for limited longitudinal movement between the shell and cage; friction means co-operating with the lining means of the shell; and spring resistance means opposing movement of the shell and friction means inwardly of the cage.

1,683,398. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,890. 3 Claims. (Cl. 213—32.)

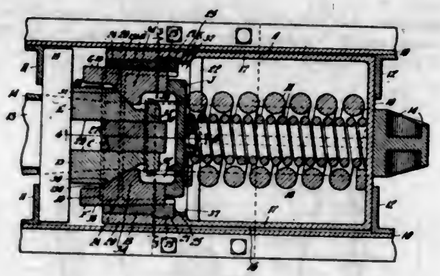


1. In a friction shock absorbing mechanism, the combination with a combined spring cage and friction shell having opposed side walls provided with interior friction surfaces; of a pair of friction shoes engaging the shell friction surfaces; a block having wedging engagement with the shoes and limiting outward movement thereof; anchoring means for the wedge block having abutment means at the inner end thereof; twin arranged spring resistance elements interposed between the shoes and said abutment means, said spring resistance elements being under initial compression and having the inner end supported entirely by said abutment means; and a lost motion connection between said wedge block and anchoring means, including inter-engaging transverse ribs on the wedge block and anchoring means.

1,683,399. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corperation of Delaware. Filed July 18, 1927. Serial No. 206,564. 8 Claims. (Cl. 213—32.)

1. In a friction shock absorbing mechanism, the combination with a friction shell; of friction shoes co-operating with the shell; a wedge block having engagement with each shoe, one of said blocks and the shoe co-operating therewith having engaging wedge faces disposed at a relatively keen wedge acting angle with respect to the longitudinal axis

of the mechanism, and the other wedge block and shoe having engaging wedge faces disposed of at a relatively blunter angle to said axis; a friction element interposed



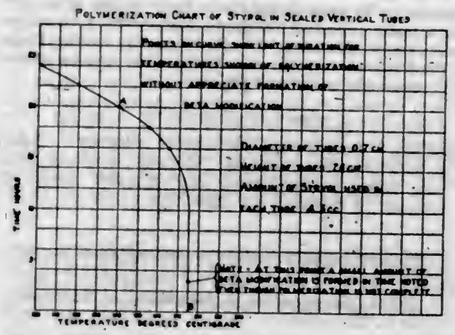
between said wedge blocks, said element being laterally displaceable; and spring resistance means opposing inward movement of the shoes.

1,683,400. [WITHDRAWN.]

1,683,401. PROCESS FOR MAKING SUBSTANTIALLY HOMOGENEOUS MASSES OF POLYMERIZED STYROL FROM A NONHOMOGENEOUS MASS OF POLYMERIZED STYROL. IWAN OSTROMISLENSKY and MORRIS G. SHEPARD, New York, N. Y., assignors to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed May 7, 1924. Serial No. 711,588. 11 Claims. (Cl. 260—2.)

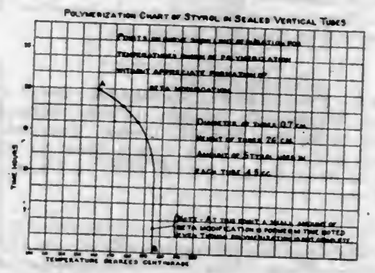
1. A process for making a homogeneous mass of tough transparent polymerized $Ar.CH:CH_2$ where Ar represents an aryl nucleus which comprises combining unpolymerized $Ar.CH:CH_2$ with a non-homogeneous tough transparent polymerized $Ar.CH:CH_2$, and polymerizing said unpolymerized $Ar.CH:CH_2$ to the tough transparent modification substantially free from unpolymerized $Ar.CH:CH_2$.

1,683,402. POLYMERIZED STYROL AND ITS HOMOLOGUES AND PROCESS FOR THE POLYMERIZATION OF STYROL AND ITS HOMOLOGUES. IWAN OSTROMISLENSKY, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed July 12, 1924. Serial No. 725,658. 5 Claims. (Cl. 260—2.)



1. A process for forming alpha meta styrols which comprises heating styrols of approximately 92% purity or greater between approximately 140° C. and approximately 175° C. for 20 to 3 hours, maintaining time-temperature relations in accordance with the curve which is approximately defined by the time versus temperature values 20 hours—140° C., 18 hours—155° C., 16 hours—165° C., 10 hours—175° C., 5 hours—175° C.

1,683,403. POLYMERIZED STYROL AND ITS HOMOLOGUES AND PROCESS FOR THE POLYMERIZATION OF STYROL AND ITS HOMOLOGUES. IWAN OSTROMISLENSKY, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Original application filed July 12, 1924, Serial No. 725,658. Divided and this application filed Jan. 30, 1925. Serial No. 5,893. 2 Claims. (Cl. 260—2.)



1. A process for forming vitreous beta meta styrol which comprises heating the styrol of approximately 92% or greater purity in a substantially horizontal tube for approximately 40 hrs. in an air bath heated to approximately 140° C.

1,683,404. POLYMERIZED STYROL AND ITS HOMOLOGUES AND PROCESS FOR THE POLYMERIZATION OF STYROL AND ITS HOMOLOGUES. IWAN OSTROMISLENSKY, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Original application filed July 12, 1924, Serial No. 725,658. Divided and this application filed Jan. 30, 1925. Serial No. 5,894. 6 Claims. (Cl. 260—2.)

1. A process for making gamma meta $ArCH:CH_2$, where Ar represents aryl, which comprises treating $ArCH:CH_2$ with a peroxide.

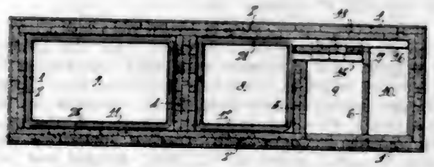
1,683,405. PROCESS FOR MAKING VITREOUS POLYMERIZED STYROLS AND PRODUCTS OBTAINED THEREBY. IWAN OSTROMISLENSKY, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Original application filed May 7, 1924, Serial No. 711,584. Divided and this application filed Jan. 31, 1925. Serial No. 6,002. 5 Claims. (Cl. 260—2.)

1. A process for producing vitreous polymerized styrols from crude petroleum oil which comprises cracking the crude oil vapors at approximately 650° C. and collecting the condensable portion of this fraction, heating the styrols in said fraction to form brittle, impure resinous polymerized styrol, heating the resinous polymerized styrol to form unpolymerized styrol of greater purity, and repolymerizing said unpolymerized styrol to form tough vitreous polymerized styrol.

1,683,406. ICE-CREAM CABINET AND MEANS FOR AUTOMATICALLY MAINTAINING MORE THAN ONE TEMPERATURE THEREIN SIMULTANEOUSLY. JACOB G. PECK, Portland, Oreg. Filed June 9, 1925. Serial No. 35,996. 8 Claims. (Cl. 62—95.)

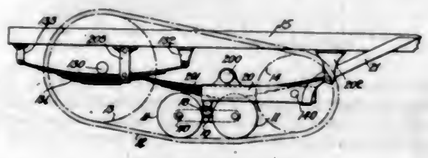
1. A cabinet of the class described comprising a suitably insulated encasing housing including side and end walls, a bottom, and partitions for forming a plurality of compartments, brine reservoirs in certain of the compart-

ments, each reservoir comprising an open ended body composed of thin hollow walls adapted to retain brine within said walls, a cooling coil in the hollow walls of each body, the coil of one body being of greater capacity



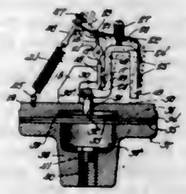
than that of an adjacent body, the walls of each said body lying in close proximity to the coils, whereby to provide brine holders of relatively small brine capacity but large surface area and whereby said hollow-walled bodies will encase a maximum of storage space.

1,683,407. ENDLESS-TRACK VEHICLE. OSCAR STYLES PENN, Wandsworth Common, London, England, assignor to Roadless Traction, Limited, Hounslow, Middlesex, England. Filed Feb. 1, 1924. Serial No. 690,079, and in Great Britain Feb. 9, 1923. 3 Claims. (Cl. 305—9.)



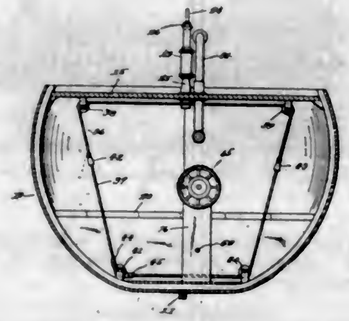
1. In endless track vehicles, the combination of laterally flexible tracks, universally mounted bogies having wheels which run thereon, and supporting means for said tracks comprising two wheels, both the wheels and the portion of the track directly beneath them being normally out of contact with the ground, one of said wheels being a driving wheel for the track and the other an idler, and a spring connected to the chassis and the bogie mounting and also supporting one of said wheels.

1,683,408. ELECTRICAL SWITCHING DEVICE. LOUIS A. M. PHELAN and CLIFFORD HOTCHKISS, Beloit, Wis. Original application filed June 17, 1922, Serial No. 604,162. Divided and this application filed Mar. 5, 1925. Serial No. 13,039. 14 Claims. (Cl. 200—83.)



9. An electric switch comprising a mercury contactor tube, means for tilting said contactor tube to and from open or closed circuit position, said means comprising a tiltable actuator embodying two substantially coextensive portions that are connected together and one of said portions being movable about a knife edge, adjusting means for predetermining the point of response of said tiltable actuator comprising a spring the tension of which may be varied, said spring being attached to one end of one of said two portions, other adjustable means for said two portions, and a contactor tube support associated with said tiltable actuator and operated thereby, said tube support being movably mounted and being adapted to be moved by said tiltable actuator.

1,683,409. LIFE-SAVING APPARATUS. JOHN PICCO, New York, N. Y. Filed Mar. 8, 1926. Serial No. 93,168. 3 Claims. (Cl. 9—4.)



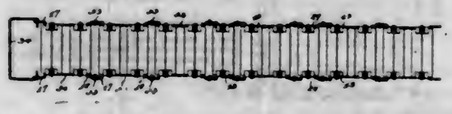
1. In combination with a life boat having an inclosed hull, rotatable members mounted within said hull, an endless element passing around said members, hand holds positioned on the side branches of said element and means adjustably mounted on both sides of one of said members to prevent slippage of said element.

1,683,410. SKIN CLEANSING AND MASSAGING DEVICE. WALTER J. RANCOURT, Boston, Mass. Filed Feb. 13, 1928. Serial No. 253,926. 5 Claims. (Cl. 128—304.)



1. A skin cleansing and massaging device comprising a thimble, to fit upon intermediate finger of the hand, having a blade extending forwardly and laterally therefrom presenting a wing adapted to be engaged by another finger of the hand whereby the edge of the blade may be pressed firmly upon and moved over the skin.

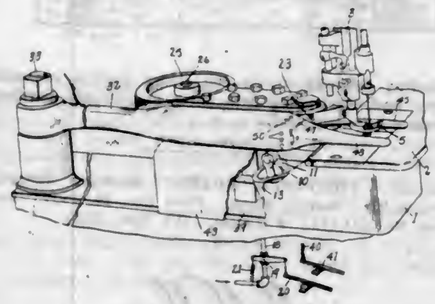
1,683,411. PORTABLE TRACTION DEVICE. HARRY C. REMMERS, Baltimore, Md., assignor to Henry Goodman, Baltimore, Md. Filed Aug. 13, 1926. Serial No. 129,036. 8 Claims. (Cl. 238—14.)



1. A traction device comprising a plurality of crossbars with link plates secured at opposite ends of said bars said link-plates projecting fore and aft with respect

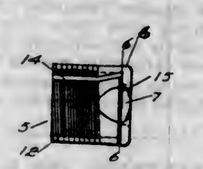
to said bars and means for pivotally connecting the ends of one link-bar with the ends of the bars at the front and rear thereof.

1,683,412. PRESSING MACHINE. LESTER F. ROSENBAUM and ERNEST C. BOWERS, Kalamazoo, Mich.; said Bowers assignor to said Rosenbaum. Filed May 14, 1925. Serial No. 30,276. 6 Claims. (Cl. 68—9.)



6. A seam pressing means comprising a bed member provided with a heating means, a driven belt adapted to travel over said bed member, a coacting pressing member, a pivoted arm by which said pressing member is carried, said arm being adapted as a support for the work, and means for actuating said pressing member.

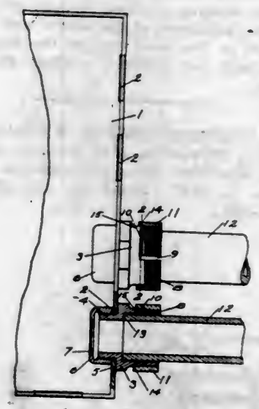
1,683,413. CONDUIT FITTING. HOWARD A. SELAH, Erie, Pa., assignor to Erie Malleable Iron Company, Erie, Pa., a Corporation of Pennsylvania. Filed Apr. 15, 1925. Serial No. 23,348. 6 Claims. (Cl. 247—25.)



1. In a conduit fitting, the combination of a body having a conduit receiving opening therein; and a contractible sleeve in the opening, the walls of the opening and the sleeve having wedging surfaces and a screw thread at its smaller end, the wedging surfaces contracting the sleeve into clamping engagement with an inserted conduit when the sleeve is drawn axially through the action of the screw and the sleeve having an axial slot extending from its outer end inwardly and a circumferential slot extending from the axial slot, the inner surface of the end of the sleeve presenting a continuous wall.

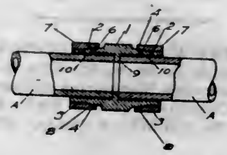
1,683,414. CONDUIT FITTING. HOWARD A. SELAH, Erie, Pa., assignor to Erie Malleable Iron Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 30, 1925. Serial No. 40,540. 1 Claim. (Cl. 247—25.)

In a conduit fitting, the combination of a body having an extension, said extension having a cylindrical surface and in continuation thereof a screw-threaded end and an axially extending slot extending into the screw-threaded portion, said axially extending slot terminating in a circumferential slot; and a nut on the screw-threaded extension adapted to contract the same, said nut having



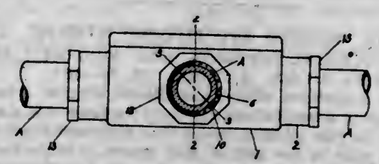
a cylindrical projection adapted to close a circumferential slot, said cylindrical projection telescoping the cylindrical portion on the extension.

1,683,415. CONDUIT FITTING. HOWARD A. SELAH, Erie, Pa., assignor to Erie Malleable Iron Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 30, 1925. Serial No. 40,541. 5 Claims. (Cl. 247—27.)



1. In a conduit fitting, the combination of a body having a continuous annular wall and having oppositely projecting extensions, each having a screw-threaded end and an axial slot extending inwardly from the end into a circumferential slot; and a nut on each end having a tapered engagement with the extension and contracting the same as the nut is advanced thereon, said nut covering the slot.

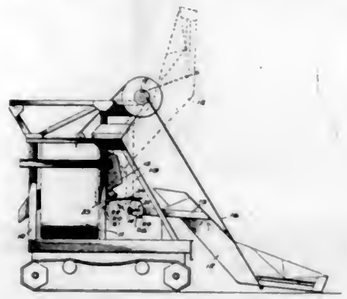
1,683,416. CONDUIT FITTING. HOWARD A. SELAH, Erie, Pa., assignor to Erie Malleable Iron Company, Erie, Pa., a Corporation of Pennsylvania. Filed Aug. 31, 1925. Serial No. 53,482. 1 Claim. (Cl. 247—25.)



In a conduit fitting, the combination of a body having a conduit-receiving opening; a sleeve in the opening having its inner end in the form of a continuous annular

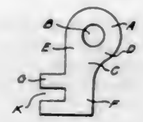
wall, said sleeve having a slot extending from its outer end inwardly terminating in a circumferential slot and a screw thread on its outer end, the circumferential slot extending in a direction opposite to the tightening direction of the screw thread, the walls of the opening and sleeve having wedging surfaces brought into engagement by the endwise movement of the sleeve; and a nut on the screw threads at the outer end of the sleeve operating against the body and adapted to effect the contraction of the sleeve.

1,683,417. CONCRETE-MIXING MACHINE. SAMUEL SHAFER, Jr., Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 7, 1927. Serial No. 197,125. 7 Claims. (Cl. 214—130.)



1. In a concrete mixing machine, the combination with a loading skip and a sub-chute adapted to receive material from said skip, of means operable by the movement of said skip for striking said sub-chute to loosen material adhering to the walls thereof.

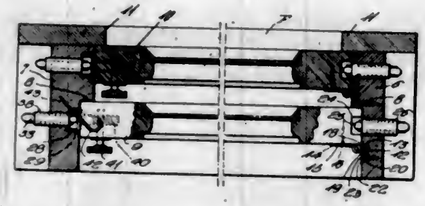
1,683,418. TERMINAL FOR CONDUCTORS. JOHN C. SHAW and ROBERT D. SHAW, Brooklyn, N. Y., assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 12, 1926. Serial No. 147,877. 3 Claims. (Cl. 173—269.)



1. A terminal for conductors, comprising a washer-like head, an arm extending therefrom, said arm being off-center, so that its outer edge is substantially tangential to said washer head, and conductor holding clip lugs extending from said tangential edge and adapted to be bent over the conductor on one side of the arm to form rights and lefts.

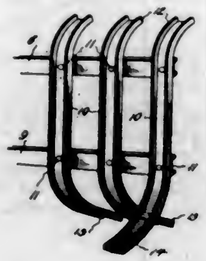
1,683,419. SLIDING AND PIVOTED WINDOW. LENHART G. SILLER, Sacramento, Calif. Filed Oct. 7, 1927. Serial No. 224,658. 3 Claims. (Cl. 20—50.)

1. In a combined pivoted and slidable window, a frame stile having a longitudinal groove in its inner side, a sash having an edge slidably contracting with said inner side of said stile at one side of said groove, a hinge having one leaf secured to said sash and another leaf extending into said groove, said other leaf being right angular in horizontal section providing it with inner and outer longitudinal portions, said inner longitudinal portion being disposed at one side wall of said groove while said outer longitudinal portion projects toward the opposite side wall of said groove, and a strip extending longitudinally of and secured to said inner side of the stile, said strip



projecting laterally across the major portion of said groove and overlapping said outer longitudinal portion of said other hinge leaf.

1,683,420. FIREPLACE GUARD. MATHIAS JOSEPH SKUBE, Jr., Seattle, Wash. Filed Dec. 19, 1927. Serial No. 241,112. 4 Claims. (Cl. 126—202.)



1. A fireplace guard comprising a plurality of horizontal bars, and a series of vertical bars secured to said horizontal bars, a number of said vertical bars having their lower ends projected forwardly, and others of said vertical bars having their lower ends projected rearwardly, said forwardly and rearwardly projected bar ends having their lower extremities disposed in a single horizontal plane to rest on a fireplace hearth and support the guard against tipping either forwardly or rearwardly

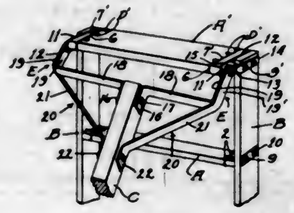
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1,683,421. SCREEN FRAME. JOHN E. SODERGREN, Minneapolis, Minn. Filed Apr. 3, 1925. Serial No. 20,387. 4 Claims. (Cl. 156—14.)



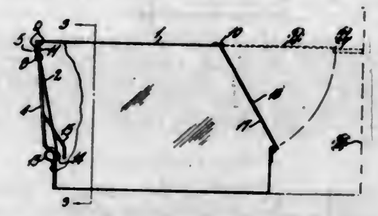
4. A screen comprising a frame member formed to provide a reinforced edge, an open groove with side walls having resilient edges slightly overhanging said groove, a flat surface between said edge and one side of said groove, and a flat surface between the other side of said groove and the other edge of said frame member, a screen fabric extending into said groove and across said flat surfaces, a rod held in said groove by said resilient edges to secure said screen under tension to said frame member, and a second frame member including an edge reinforcement co-operating with the reinforcement on said first named member to constitute a reinforced frame and a flat surface designed to lie opposite the flat surfaces on said first named member and fastening elements securing said members together with the screen fabric clamped between the opposing flat surfaces.

1,683,422. LADDER. JAMES W. STEVENSON, Riverside, Calif. Filed Apr. 11, 1927. Serial No. 182,550. 2 Claims. (Cl. 228—58.)



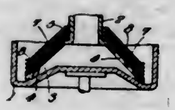
2. A ladder fixture comprising a bond for surrounding a tread adjacent an end theerof to prevent splitting; a pair of bolts of substantially L-shape for extension through the tread and through a stile, said bolts adapted to engage the bond at both its top and bottom faces; a plate to connect the bolts to overlie the stile, and nuts on said bolts.

1,683,423. TRAP NEST. FRANK STRICKLAND, Oklahoma City, Okla. Filed Feb. 23, 1928. Serial No. 256,184. 2 Claims. (Cl. 119—50.)



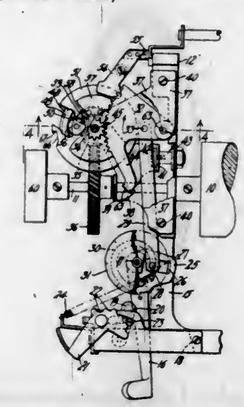
1. In a trap nest, a box having an opening, a gate hinged from the upper margin of the opening, the said gate being adapted to open inwardly only and having downwardly extended stems, the outer stems for impinging the inner side of the lower margin of the said opening to prevent the gate swinging outwardly, the medial stems being offset inwardly from the said lower margin to facilitate the entrance of the fowl.

1,683,424. CENTRIFUGAL SEPARATING MACHINE. KARL JOHAN SVENSSON, Lidingo Villastad, and KARL AXEL PATRIK NORLING, Sodertorns Villastad, Sweden. Filed Jan. 7, 1927, Serial No. 159,614, and in Sweden Sept. 10, 1926. 2 Claims. (Cl. 233—21.)



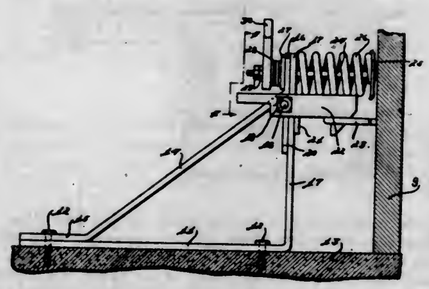
1. A centrifugal machine for the continuous separation of two or more liquids of different specific gravities, comprising a drum, intermediate conical plates spaced apart in said drum, said conical plates having apertures in the conical parts thereof, adapted for the introduction and distribution between said plates of an incoming supply of liquid, a distributor formed with openings constituting an inlet to the spaces between said conical plates adapted to receive and distribute the incoming liquid to said apertures, and a bottom plate provided with apertures for co-operation with the openings in said distributor to vary the position of said inlet according to the required liquid separation upon rotation of the bottom plate.

1,683,425. TYPEWRITING MACHINE. LINDEN A. THATCHER, Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 9, 1926. Serial No. 121,352. 21 Claims. (Cl. 197—114.)



1. In a typewriting machine including a revoluble platen and a line-space lever, the combination of motion-multiplying mechanism operable to rotate the platen, including an internal gear, a pinion always in train within the gear, and means operatively connectible to the line-space lever to render the pinion operative or inoperative to drive the gear.

1,683,426. DOOR LATCH AND OPENER. RAY H. THRASHER, Ferndale, Mich. Filed Oct. 10, 1927. Serial No. 225,071. 5 Claims. (Cl. 292—198.)

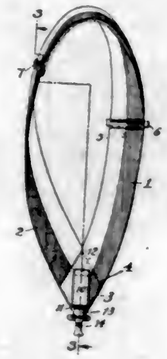


1. A device of the class described adapted for use with a swingably mounted door, comprising: a supporting member; a latch swingably mounted on said supporting member; a U-shaped clip mounted on said door and adapted for engagement with said latch, said latch, through gravity, locking upon its engagement with said U-shaped member; a horizontally disposed slidable member mounted on said supporting member; a swingably mounted releasing member on said horizontally disposed member adapted, upon downward swinging, for engaging and unlatching said latch; and a resilient member for frictionally retaining said swingably mounted releasing member in inoperative position.

1,683,427. DECORATIVE BELT. HOWARD B. TURNER, Mount Sterling, Ky., assignor of one-half to J. Oldham Greene, Mount Sterling, Ky. Filed May 5, 1927. Serial No. 188,898. 1 Claim. (Cl. 241—12.)

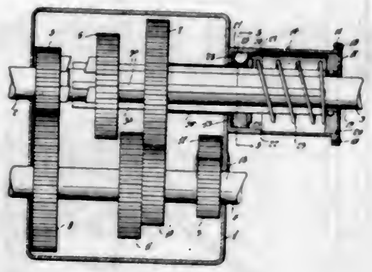
An ornamental baldric type belt comprising a pair of flexible members one end of each being diagonally crossed over the corresponding end of the other and stitched there-

to, the opposite ends of said members being adjustably connected, a resilient strip secured at one terminal to the rear face of said members within the area of the crossed portions



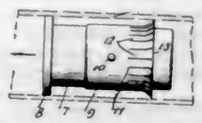
and having its free end encompased within said area, and a clasp secured to the free end of said strip and adapted to be connected to a garment normally worn by the wearer.

1,683,428. AUTOMATIC SHAFT LOCK FOR AUTOMOBILES. WALTER B. UFFERT, Freeport, N. Y. Filed June 2, 1927. Serial No. 196,010. 9 Claims. (Cl. 192—4.)



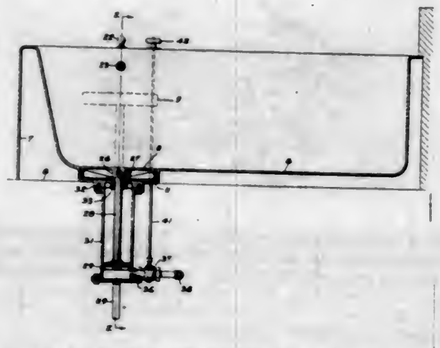
2. In combination, a transmission gearing including a sliding gear shaft and gears slidably associated with said shaft, a stationary ratchet, a rotatable ratchet slidably fixed to said shaft and provided with an extension contacting with one of said gears, and means yieldingly holding the rotatable ratchet in operative position with respect to the stationary ratchet.

1,683,429. PLUG FOR CLEANING TUBES. EDWARD WALKER, Grantwood, N. J. Filed Nov. 17, 1926. Serial No. 148,945. 3 Claims. (Cl. 15—104.06.)



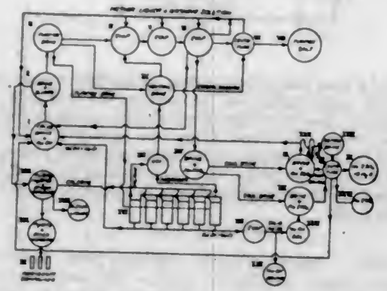
1. A plug for cleaning condenser tubes and the like, including a body composed entirely of rubber and having a flange at one end thereof, and a scraper including a sleeve fitted over said body and having one end split longitudinally to form a plurality of blades, the free extremities of which are flared outwardly and which combine to form a circumferential scraping edge.

1,683,430. BATHTUB ATTACHMENT. EDWARD A. WRIGHT, Fresno, Calif. Filed Dec. 8, 1926. Serial No. 153,317. 9 Claims. (Cl. 4—185.)



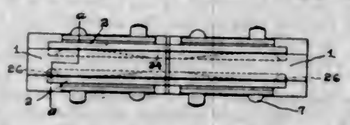
1. In a bath tub, a seat adapted to rest on the bottom thereof, a cylinder adjacent said bath tub, a piston in said cylinder directly connected to said seat for raising said seat from the bottom of said tub, and manually operated means for controlling the flow of fluid to and from said cylinder.

1,683,431. METHOD OF MAKING BLEACH LIQUOR AS BY-PRODUCT IN SALT PURIFICATION. VICTOR YNGVE, Lakewood, Ohio. Original application filed Apr. 9, 1925, Serial No. 21,844. Divided and this application filed Jan. 12, 1927. Serial No. 160,648. 3 Claims. (Cl. 23—86.)



1. The process of obtaining bleach liquor as a by-product in the purification of salt which comprises mixing with a brine containing magnesium and calcium an amount of sodium hydroxide in excess of the amount necessary to precipitate the magnesium and calcium, heating the mixture to about 100 degrees, separating the precipitated hydroxide sludge and chlorinating the said sludge only to the extent that no appreciable amount of magnesium hydroxide is chlorinated.

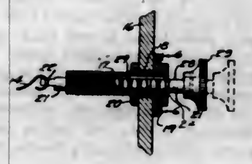
1,683,432. INSULATED RAIL JOINT. EMIL CARL ZIMMERMAN, New York, N. Y., assignor to Q & C Company, New York, N. Y., a Corporation of Maine. Filed Nov. 23, 1925. Serial No. 70,767. 2 Claims. (Cl. 235—159.)



1. In an insulated rail joint, the rail ends, oppositely positioned splice bars, insulating members interposed between the rail ends and the splice bars, said splice bars

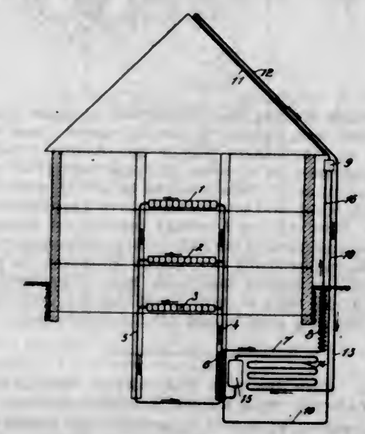
being of the fish plate type composed of vertical web portions having upper and lower shoulder extensions providing fishing surfaces and said bars having their central portion reinforced by the thickening of the web upon the inner sides thereof and said bars being formed at their end portions with web thickening fillets connecting the fishing shoulder extensions, substantially as described.

1,683,433. DEVICE FOR CONTROLLING RADIATOR SHUTTERS. WILLIAM A. ALLEN, New York, N. Y. Filed Jan. 8, 1926. Serial No. 79,968. 12 Claims. (Cl. 74—39.)



1. A control device for automobile radiator shutters, comprising, a stationary tubular guide adapted to be mounted on the instrument board of the automobile, and a plunger accessible from the front of the instrument board and carried in the guide, the plunger and guide having cooperative devices to permit axial movement of the plunger only when in a predetermined angular position and to permit angular movement of the plunger only when in predetermined positions along the axis of the guide, said devices having such configuration as to effect a wedging action and cause binding of the parts when the plunger is turned to the limit of its angular movement.

1,683,434. METHOD OF HEATING BUILDINGS. EDMUND ALTENKIRCH, Alt-Landsberg-Sud, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschrankter Haftung, Siemensstadt, Germany, a Corporation of Germany. Filed Sept. 17, 1925, Serial No. 56,966, and in Germany Jan. 9, 1924. 4 Claims. (Cl. 62—170.)



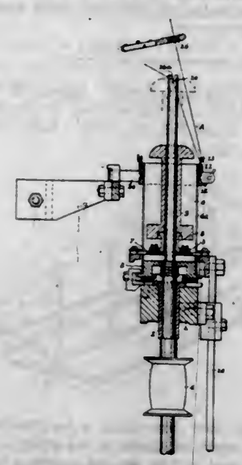
1. The method of heating, which consists in utilizing existing temperature differences to raise heat of the existing higher temperature to a still higher temperature level, obtaining the heat for heating purposes by the absorption of a gas in a liquid, expelling the gas again from the solution at lower pressure by means of the existing higher temperature, condensing said gas by the existing lower temperature, and evaporating it again at higher pressure by the existing higher temperature.

1,683,435. TANDEM-BARREL WELL PUMP. MERTON T. ARCHER, Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 18, 1927. Serial No. 184,554. 9 Claims. (Cl. 103—184.)



1. In a pump, a well tubing having its lower portion of greater diameter, tandem pump barrels insertible through the upper portion of the well tubing and into the lower portion, means for supporting the pump barrels in the said lower portion, tandem valved pistons in the pump barrels, means blocking the passage of fluid from one barrel to the other and from the space around one barrel to the space around the other, a standing valve in the well tubing, and a passage connecting the space in the upper barrel and below its piston to the space surrounding the lower barrel, a passage connecting the space in the lower barrel and above its piston to the space surrounding the upper barrel, and means for operating the pistons.

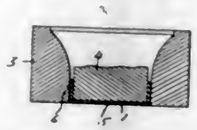
1,683,436. SPINNING MACHINE. ROBERT BARBOUR, Paterson, N. J., assignor to Barbour Flax Spinning Co., Paterson, N. J., a Corporation of New Jersey. Filed July 9, 1927. Serial No. 204,570. 3 Claims. (Cl. 118—64.)



1. The combination of supporting means, a spindle projecting therefrom and journaled therein, a core member penetrated by and mounted on and rotative with the pro-

jecting portion of the spindle, a yarn-guide offset from the free end of the spindle, a yarn-guide rotative around the core, means to effect relative reciprocation lengthwise of the spindle as between the same and the latter yarn-guide, said spindle having its free end constantly projecting from the latter yarn-guide and being formed with means to secure the yarn preparatory to the winding of the yarn on said core member.

1,683,437. METHOD OF FORMING DRAWN ARTICLES. JOSEPH E. BATIE, Detroit, Mich., assignor to Kelsey Wheel Company, Inc., Detroit, Mich., a Corporation of New York. Filed June 13, 1927. Serial No. 198,677. 4 Claims. (Cl. 113—51.)



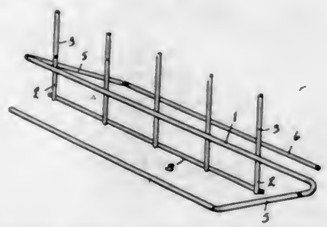
1. The method of forming a drawn article, which includes heating a blank and using a fused mineral salt to protect the blank from oxidation, and then drawing the blank and using the salt thereon as a lubricant during the drawing.

1,683,438. ROOF-FRAMING RULE. GEORGE P. BILLINGS, Albany, Wis. Filed Aug. 22, 1927. Serial No. 214,627. 14 Claims. (Cl. 33—161.)



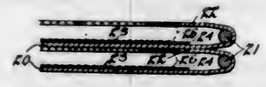
1. A roof framing rule comprising a pair of telescopically connected bars, one of which is provided with a scale having a zero point and consisting of graduations spaced longitudinally of the bar and suitably designated to indicate progressively increasing angles of roof inclination, the other of said bars having an end adjustable along the scale into register with any one of said graduations and having a measuring point thereon, each graduation on the scale being spaced from the zero point a distance such that the distance from the zero point to the measuring point when the rule is set to the graduation is equal to a selected unit of measurement multiplied by the secant of the angle indicated by the graduation on the scale with which the end of the second bar register.

1,683,439. STRUCTURAL UNIT. DEWEY H. BITNEY, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Feb. 12, 1927. Serial No. 167,678. 7 Claims. (Cl. 72—122.)



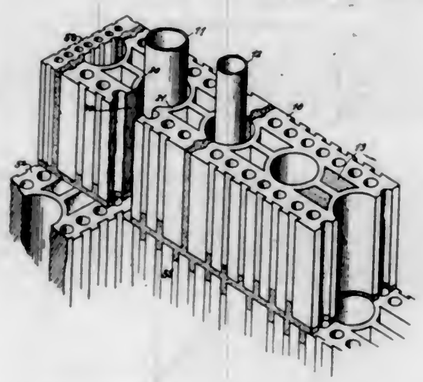
7. A structural unit comprising a longitudinal rod having downwardly inclined struts at its ends, a plurality of legs secured to said rod in spaced relation between said struts, and longitudinal base members at the lower ends of said struts disposed in planes at the sides of the said longitudinal rod.

1,683,440. RECORD HOLDER FOR TALKING MACHINES. PAUL D. BODWELL and HENRY W. BELLOWS, Waynesboro, Pa., assignors to Deca Disc Phonograph Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1925. Serial No. 50,062. 6 Claims. (Cl. 274—1.)



5. A protective holder for supporting disk records in a manner to permit them to be easily removed from the holder comprising a plate having a central hole for a phonograph spindle said plate being turned up at its edge and bent inwardly to form an overhanging flange, a stiffening ring disposed between the overhanging flange and the plate, a soft record supporting lining for said plate adapted to provide frictional driving engagement between the holder and a record supported thereon and having its outer edge terminating beneath said overhanging flange, substantially as set forth.

1,683,441. HOLLOW CLAY TIRE BUILDING BLOCK. RUSSELL GLENN BONE, Milledgeville, Ga. Filed Nov. 7, 1927. Serial No. 231,762. 5 Claims. (Cl. 72—41.)

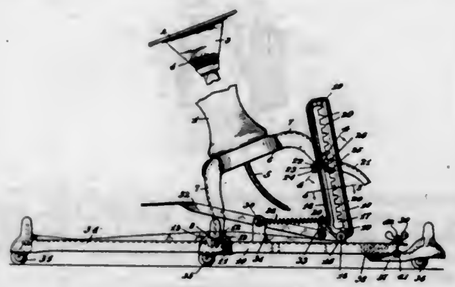


2. A hollow building block comprising an inner and an outer hollow wall disposed in parallel spaced apart relation and an intermediate cellular construction including thin curved webs of uniform thickness with their ends merging at an acute angle into and integrally connecting the exterior walls, said exterior walls having approximately the same width and said cellular construction having a width measured between the walls substantially equal to the sum of the widths of the two exterior walls, and the mass of material comprising said block being distributed approximately one third in each of said hollow exterior walls and the remaining third in said cellular construction.

1,683,442. PROCESS FOR PREPARING DEPILATORY SUBSTANCES. RENÉ BOTSON, Auderghem-Brussels, Belgium, assignor to Société Industrielle des Applications Chimiques, Société Anonyme, Brussels, Belgium. Filed Aug. 19, 1926, Serial No. 130,341, and in Belgium Aug. 21, 1925. 3 Claims. (Cl. 149—2.)

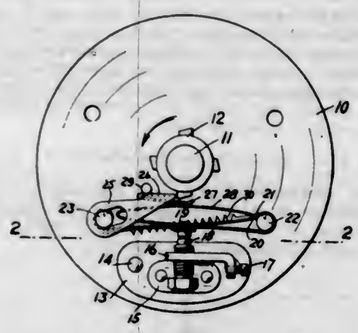
1. A process for preparing a depilatory product from an alkali sulphide, comprising the treatment of the alkali sulphide with dry steam until liquefication has taken place, and adding to the liquid thus obtained, after decantation and filtration, a solution of caustic soda, the solution obtained being afterwards filtered, concentrated and crystallized, substantially as described.

1,683,443. MOUNT FOR DRAWING TABLES AND THE LIKE. ERNEST J. BRASSEUR, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 19, 1924. Serial No. 700,235. 13 Claims. (Cl. 45—131.)



1. A mount for apparatus of the class described, having supporting legs, said mount including a base and seats to receive a plurality of said legs tiltingly, and a holding-device mounted on said base and having means to be secured adjustably to another of said legs, to hold said apparatus in different tilted positions relatively to said base.

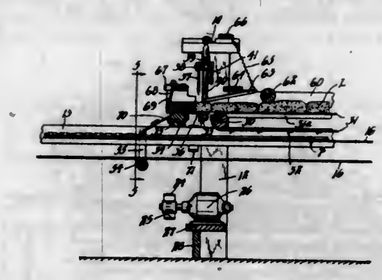
1,683,444. CONTACT MAKER AND INTERRUPTER. WILLIAM C. BRINTON, Jr., Kennett Square, Pa., assignor to Philbrin Corporation, Kennett Square, Pa., a Corporation of Delaware. Filed Dec. 1, 1920. Serial No. 427,493. 10 Claims. (Cl. 200—30.)



3. A make and break device for ignition circuits comprising a fixed contact, a spring-supported movable contact, vibrating means, and a vibrator interposed between the movable contact and the vibrating means arranged to vibrate the vibrator when moved in one direction and to be shifted without operating the vibrator when said means is moved in the reverse direction.

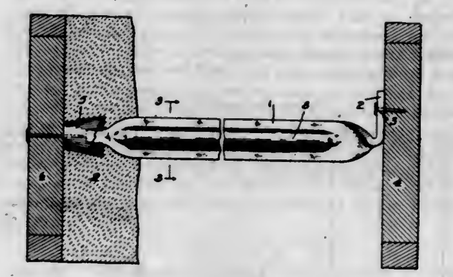
1,683,445. BREAD-SLICING MACHINE. EDWIN C. BROCK, Minneapolis, Minn. Filed June 5, 1926. Serial No. 113,927. 4 Claims. (Cl. 146—155.)

1. In a bread slicing and panning machine, the combination with a slow moving pan carrier, of an intermittently moving loaf carrier, a slotted bed and a slicing knife with its edge working through the slot of said bed, an inclined guide reaching from near the rear edge of said bed to a point overlying the pans of said pan carrier, and a series of slice retaining and delivering devices operative to yieldingly hold the cut slices in their normal vertical position abutting the cut loaf on the bed and then to deliver the foremost slices intermittently from said bed, with the bottom edges foremost and with the sides of the slices



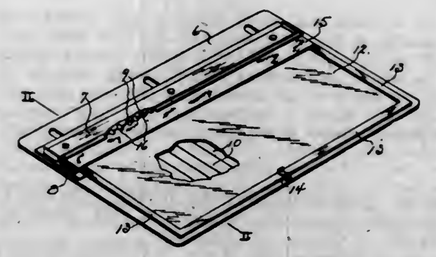
substantially parallel to the guide, onto said guide and therefrom to said pans, under the successive feed movements of said loaf carrier, substantially as described.

1,683,446. METALLIC SPREADER FOR WOOD FORMS. EARL GORDON BROWN, Oakland, Calif. Filed Oct. 26, 1927. Serial No. 228,769. 9 Claims. (Cl. 25—131.)



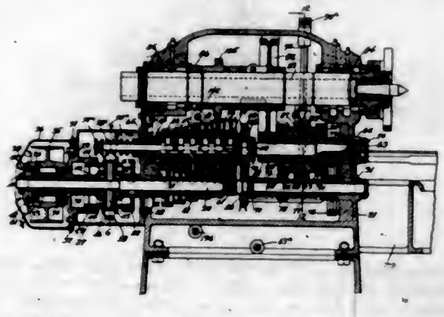
2. A spreader for wood forms comprising a metallic strap provided at one end with a right angularly disposed foot, and at its other end with a relatively soft head.

1,683,447. VISIBLE INDEX. CLAUDE M. CONGER, Kansas City, Kans., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed June 4, 1926. Serial No. 113,680. 4 Claims. (Cl. 129—34.)



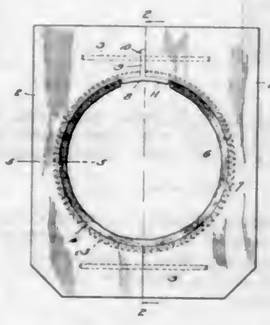
1. In combination with a sheet holder having a plurality of sheets hingedly carried in overlapped relation, a transparent guard member movable to and from a position against all of said sheets and a means for securing said guard member in position against the sheets.

1,683,448. SELECTIVE GEARED HEAD LATHE. CONRAD M. CONRADSON, Madison, Wis., assignor to Joseph T. Ryerson and Son, Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1919, Serial No. 344,845. Renewed Nov. 30, 1925. 8 Claims. (Cl. 74—58.)



1. The combination with a head stock, of a driving shaft journaled in the lower portion thereof and having a driving connection at one end, an intermediate shaft journaled in said head stock, gears secured on said driving shaft, a clutch control gear unit on said intermediate shaft engaging the gears of said driving shaft, a work-supporting spindle adjacent said intermediate shaft, a pinion secured on said intermediate shaft, a sleeve having a driving connection with said pinion and geared to said spindle, and a second sleeve geared to said pinion and having a driving connection with said first-named sleeve.

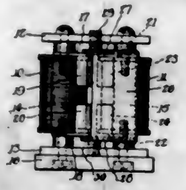
1,683,449. DUST GUARD. WILLIAM F. CREMEAN, Toledo, Ohio. Filed Aug. 14, 1926. Serial No. 129,175. 6 Claims. (Cl. 286—6.)



1. A car axle dust guard having a body formed with an opening of larger diameter than the dust guard journal of the axle, and provided with flexible means bordering the margin of said opening and projecting inwardly toward the center of the latter for engagement with said journal, and having a resilient expansion ring retaining said flexible means in assembled relation to said body.

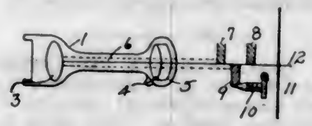
1,683,450. ELECTROMAGNETIC DEVICE. WILLIAM P. CROCKETT, Chicago, Ill. Filed Dec. 26, 1924. Serial No. 758,021. 9 Claims. (Cl. 175—336.)

1. In an electromagnetic device, the combination of a pair of electromagnets, bars of non-magnetic material securing said electromagnets together in substantially parallel relation, pole pieces having curved outer edges and substantially parallel adjacent edges at each end of said electromagnets separated by a substantial air gap, polar extensions from the pole pieces of each electromagnet extending towards each other and having cylindrical outer surfaces, the cylindrical surfaces of said extensions being coaxial, and an armature pivotally supported by said bars for oscillation about the common axis of said cylindrical



surfaces, said armature comprising a body portion having a cylindrical inner surface separated from said cylindrical surfaces of said polar extensions by a small air gap and laterally extending ends for engaging its pivotal supports.

1,683,451. SOUND RECORDING AND REPRODUCING APPARATUS. LEE DE FOREST, New York, N. Y., assignor to De Forest Phonofilm Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 19, 1925. Serial No. 76,471. 6 Claims. (Cl. 179—100.1.)



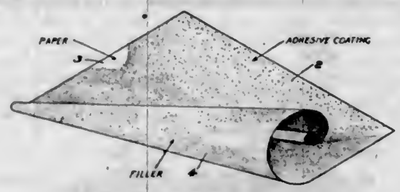
5. In a sound reproducing and recording device, a source of illumination, means comprising three opaque plane members two of which lie in separate parallel planes on one side of the center line of the light source, and a third member on the opposite side in a plane between the other two, said third member being adjustable with respect to the other two, and the other two members having thin edges in the same plane to vary the thickness of the beam of light passed, and means for recording variations in intensity of said source of light.

1,683,452. HYDROMETER. LEO EDELMANN, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a Corporation of Illinois. Filed May 22, 1925. Serial No. 32,199. 7 Claims. (Cl. 265—45.)



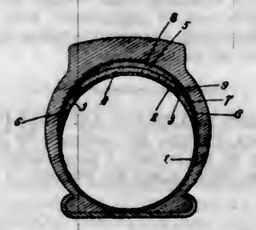
4. The combination with the barrel of a hydrometer syringe, of a cylindrical rubber member surrounding the barrel and having a projecting perforated ear.

1,683,453. COATED PAPER. FREDERICK W. FARRELL, Brookfield, Mass., assignor to McLaurin-Jones Co., Brookfield, Mass., a Corporation of Massachusetts. Filed July 17, 1925. Serial No. 44,358. 3 Claims. (Cl. 91—68.)



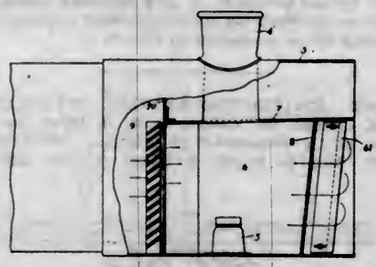
1. An article of the character described comprising paper having one side thereof coated with a filler and its opposite side coated with a water soluble adhesive which is tacky under normal atmospheric conditions.

1,683,454. SELF-HEALING INNER TUBE. WILLIAM FETTER, Baltimore, Md. Filed Oct. 13, 1924. Serial No. 743,244. 4 Claims. (Cl. 152—13.)



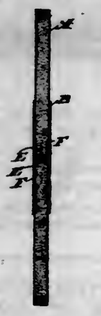
1. In an inner tube for pneumatic tires, a tubular member of vulcanized rubber having a channel extending longitudinally of the tread portion, puncture-healing plastic in the channel, and a cover strip covering channel and secured to the tube at each side of the channel.

1,683,455. LOCOMOTIVE STRUCTURE. GUY T. FOSTER, Dayton, Ohio, assignor to Leroy Thompson, New York, N. Y. Filed Dec. 31, 1926. Serial No. 158,205. 5 Claims. (Cl. 110—147.)



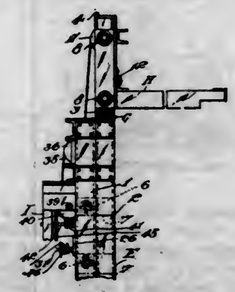
1. In a locomotive boiler structure including fire-box, boiler flues, and a cylindrical, horizontally extending smoke-box, and smoke-stack and injection nozzle arranged in vertical axial alignment in the top and bottom of the smoke-box, a horizontally extending partition arranged within the smoke-box and extending longitudinally from the rear to the front wall of the smoke-box and closing off an upper idle space within the cylindrical outer wall of the smoke-box and a bifurcated vertically extending partition arranged within the smoke-box and beneath the said horizontally extending partition and extending from the rear and on opposite sides of the axis upon which smoke-stack and injection nozzle are aligned, and affording passageways for the gases forwardly from the boiler flues in bifurcated course adjacent the side walls of the smoke-box, and then rearwardly in united course at the center of the smoke-box toward the vertical axis in which smoke-box stack and injection nozzle are aligned.

1,683,456. BRUSH. CLINTON E. FROST, Chippewa Lake, Ohio, assignor to The Specialty Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 18, 1926. Serial No. 142,304. 1 Claim. (Cl. 15—179.)



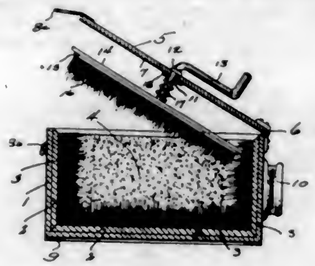
As an article of manufacture, a brush section, comprising a disc shaped bristle body having a central opening and a pair of sheet metal clamping plates between which said bristle body is secured, and locking means for said body and plates comprising pointed lugs extending inwardly from the inner opposite sides of said plates, the pointed ends of said lugs being turned over the outer sides of said bristle body, said lugs being integrally formed from said plates, leaving corresponding openings therein, the extremities of the lugs in one plate lying against the opposite outer face of said body and enclosed in one of said openings.

1,683,457. PORTABLE ELEVATOR. HENRY S. GERMOND, Jr., Bayonne, N. J., and HAROLD GREEN, Yonkers, N. Y., assignors to said Germond. Filed July 24, 1925. Serial No. 45,795. 20 Claims. (Cl. 187—11.)



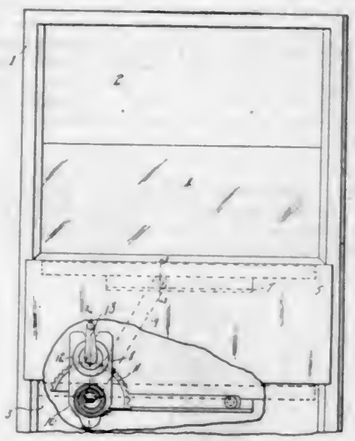
10. Elevating apparatus comprising a vertical frame including a plurality of relatively longitudinally movable sections, cable hoisting means for relatively moving said sections to extend and collapse said frame, a load sustaining platform mounted to move vertically on said frame, a second cable hoisting means for raising and lowering said platform, and means cooperating with said two hoisting means to cause unwinding and winding of cable by said platform hoisting means simultaneously with and in compensation of the extending and collapsing respectively of said frame and to permit raising and lowering of said platform independently of the extension and collapse of said frame.

1,683,458. CLEANING DEVICE FOR FALSE TEETH. HARRY GARRISON HALL, Williams, Ariz. Filed Dec. 5, 1927. Serial No. 237,828. 3 Claims. (Cl. 15—21.)



1. A device of the character described comprising a hollow receptacle, bristles carried on the inner walls of the receptacle, a cover for the receptacle, a rotatable plate on the cover and extending into the receptacle and mounted for movement toward and away from the cover, a spring for urging the plate away from the cover, and bristles carried by the plate and extending into the receptacle.

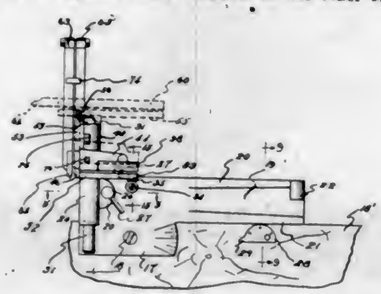
1,683,459. CONNECTION BETWEEN CLOSURES AND CONTROL ARMS OF WINDOW REGULATORS. MILES G. HANSON, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Feb. 23, 1926. Serial No. 90,107. 7 Claims. (Cl. 268—126.)



1. The combination with a closure and a regulator for operating said closure including an angularly movable sheet metal member operatively connected to said closure, of means for operatively connecting said sheet metal member and closure including a sectional bearing extending transversely of said angularly movable member and having a section integral with and struck out from said angularly movable member.

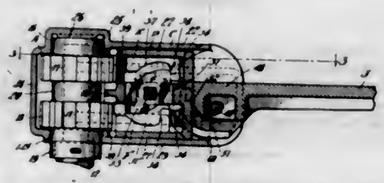
1,683,460. MITER BOX. HARVEY M. HARTWAY, Highland Park, Mich. Filed Apr. 28, 1924. Serial No. 709,456. 8 Claims. (Cl. 143—88.)

8. A miter box of the class described, comprising a vertically extending supporting member; an abutment member carried by said supporting member having a pair of spaced bosses projecting from the upper surface thereof; an engaging member swingably mounted on said supporting member and having a pair of openings, spaced apart, each adapted for the reception of one of said spaced bosses; a saw guide mounted on said engaging member; a pair of parallel extending yokes, one of said yokes being pivotally mounted at its opposite ends to said saw guide; a saw guide fixedly mounted on the other of said



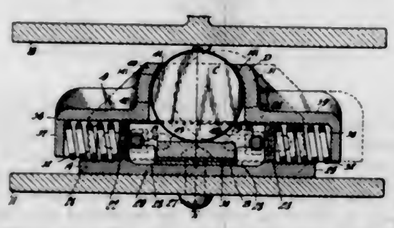
yokes, the upper end of said post projecting beyond said engaging member, said pivotally mounted yoke being adapted for engaging, when swung to horizontal position, the upper end of said supporting member for raising said engaging member out of engagement with said spaced bosses, for permitting the free rotation of said yokes about said post as an axis.

1,683,461. HAND BRAKE FOR RAILWAY CARS. STACY B. HASELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Oct. 20, 1923. Serial No. 669,660. 8 Claims. (Cl. 74—116.)



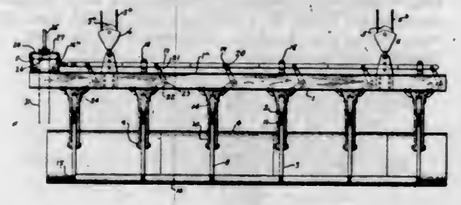
8. In a brake, the combination with a rotatable brake tightening means; of operating means movable to operative and inoperative positions; and ratchet mechanism controlled by the movement of said operating means, said ratchet mechanism being operable to effect rotation of said tightening means in opposite directions.

1,683,462. ANTIFRICTION BEARING. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 1, 1926. Serial No. 91,328. 5 Claims. (Cl. 308—226.)



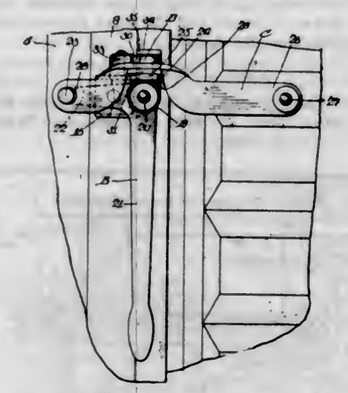
1. In an anti-friction bearing, the combination with a support having a vertically adjustable bearing surface; an anti-friction element adapted to move back and forth on said bearing surface; a housing loosely fitting about said anti-friction element and detachably connected to said support for movement in a horizontal plane substantially constant when in assembled relation and parallel to said support, said housing being provided with surfaces arranged to engage said anti-friction element above the central axis thereof, and being so formed as to permit vertical adjustment of said element and said bearing plate without interference with the operation of said bearing, said support and said housing being provided with oppositely extending rigid portions adjacent their ends; and yieldable means interposed between said oppositely extending portions.

1,683,463. HOISTING MECHANISM. ELLIS C. HEALY, East Orange, N. J., assignor to International Paper Company, a Corporation of New York. Filed July 9, 1927. Serial No. 204,443. 7 Claims. (Cl. 294—106.)



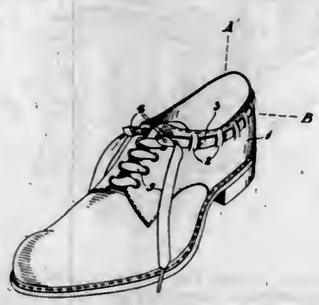
2. In a hoisting mechanism, the combination of a supporting mechanism adapted to be raised and lowered, pairs of opposed gripping arms supported by said frame and movable to and from each other, rotatable rollers carried by and extending longitudinally between said arms and constituting opposing longitudinal members adapted to engage on opposite sides of the object to be lifted, and means for moving the arms to and from each other.

1,683,464. DOOR-OPERATING MECHANISM. HAROLD H. HENRICKS, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 27, 1925. Serial No. 18,791. 11 Claims. (Cl. 268—44.)



1. In a door operating mechanism for a sliding door member having a frame member associated therewith, the combination with an actuating element pivotally mounted on one of said members; of a transmitting member pivotally associated with said actuating element and the other of said members, said actuating element being adapted to impart combined longitudinal and lateral movement to the transmitting member, said actuating element being provided with means projecting into the path of movement of said transmitting member to limit the movement thereof in one direction; and a latch mounted on one of said members and movable substantially at right angles to the plane of movement of said transmitting member and engageable with the latter to prevent movement thereof in the opposite direction.

1,683,465. BOOT OR SHOE. WILLIAM LADBROOK HILL, Leicester, England. Filed Oct. 7, 1926, Serial No. 140,109, and in Great Britain Feb. 23, 1926. 2 Claims. (Cl. 36—50.)

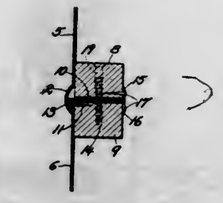


1. In a boot or shoe, a strap or band encircling the upper, elements formed from parts of said upper through which the strap is interlaced without passing through to the interior of the shoe, and a plurality of perforations at the strap ends for accommodating the usual shoe lace and enabling the degree of tightness of the strap and consequently also of the upper about the ankle to be adjusted.

1,683,466. CAPSULE. JOSEPH A. HORIGAN, Kansas City, Mo. Filed May 9, 1927. Serial No. 190,138. 5 Claims. (Cl. 167—2.)

2. A capsule or container holding in its walls a benzoin preparation and adapted for use in intestinal administration of medicines or the like.

1,683,467. VEHICLE BODY. FRANCIS T. HOULE, Amesbury, Mass., assignor to Biddle & Smart Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Apr. 4, 1922. Serial No. 549,439. 2 Claims. (Cl. 296—29.)

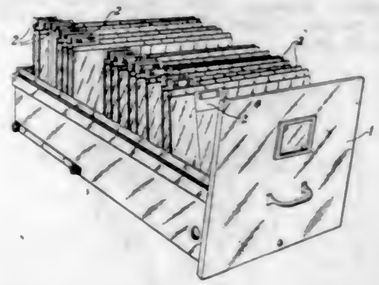


1. A vehicle body comprising a frame having two parallel portions forming between them a slot, and a covering of sheet material, said covering having a marginal portion bent at an angle to the remainder thereof and extended through said slot, the inner edge of said marginal portion being slitted to form tongues which are bent alternately in opposite directions and secured to the inner sides of said frame portions respectively.

1,683,468. METHOD OF INDEXING. RICHARD A. JONAS, Brooklyn, N. Y. Filed Oct. 20, 1921. Serial No. 508,922. 3 Claims. (Cl. 129—16.5.)

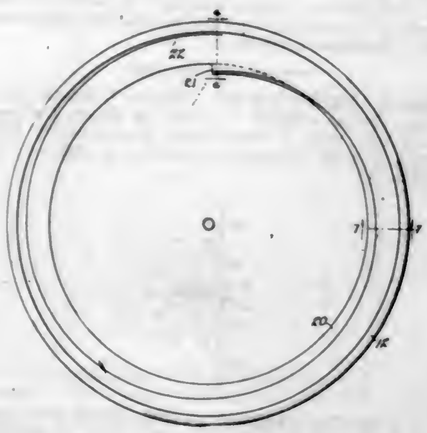
1. The method of indexing a particular file which comprises forming an assumed maximum number of guide cards having tabs projecting above the upper margin of the

respective guide cards, each of said tabs being located at substantially the extreme left-hand side of the guide card, said tabs bearing indications of solely single alphabetical characters serving as the main divisions of the assumed maximum list, applying to said maximum number of guide cards respectively designations in numerical sequence in



correspondence to their alphabetical sequence, and groups of solely alphabetical characters serving as the subsidiary divisions of the assumed maximum list, selecting a list of main and subsidiary divisions from the assumed maximum list to meet the requirements of the particular file and arranging the main and subsidiary guide cards corresponding to the selected list in a common file.

1,683,469. RECORD HOLDER FOR TALKING MACHINES. WILBUR KELSO KAUFFMAN, Waynesboro, Pa., assignor to Deca-Disc Phonograph Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1926. Serial No. 153,989. 6 Claims. (Cl. 274—1.)



6. A device for supporting a centrally perforated disk record upon a talking machine comprising a substantially flat body provided with a rim of greater thickness than the thickness of the record to be supported, a frictional lining upon the upper surface of said body, a centering device for engaging the perforation in the center of the record, and means disposed within the confine of said rim for reducing the record holding portion of the body for accommodating a record of a smaller size, said means having a lip disposed in a position to permit a reproducing needle to slide therefrom onto the surface of the record, said inserted means being provided with a spiral groove extending from its outer edge to said lip, substantially as set forth.

1,683,470. PROCESS FOR THE PRODUCTION OF WATERPOOF TEXTILE MATERIAL, PAPER, AND THE LIKE. CARL KNOPF, Hamburg, Germany. Filed Apr. 24, 1925, Serial No. 25,709, and in Germany Dec. 23, 1924. 1 Claim. (Cl. 8—20.)

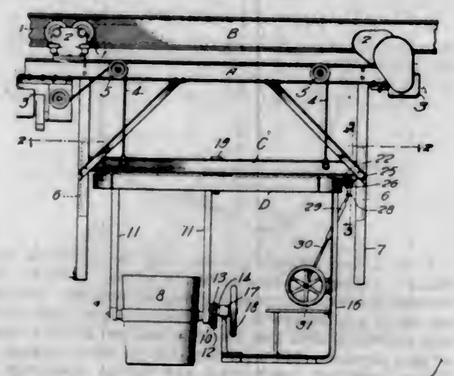
Process of parchmentizing paper and like material by a continuous operation, comprising the following successive procedures, the material to be parchmentized is artificially dried, immediately thereafter it is treated in a bath containing amyloid-forming salts, after leaving the chemical bath it is scraped at both sides, squeezed between pressure rollers and heated to mature the amyloid formed by the chemical treatment, subsequently it is cooled sufficiently to prevent retrogression or deterioration of the amyloid formed, and finally it is lixiviated, washed and dried.

1,683,471. PRESSURE GAUGE. HENRY P. KRAFT, Ridgewood, N. J.; Edgar J. Phillips and Earl A. Darr executors of Henry P. Kraft, deceased. Filed Mar. 25, 1921, Serial No. 455,680. Renewed Jan. 7, 1927. 3 Claims. (Cl. 73—111.)



2. A pressure gauge for tire valves or the like, comprising a casing, a pressure-responsive member therein a slidable gauge bar detached from but adapted to be moved by said pressure-responsive member in one direction, the one having a socket or recess, and the other entering said recess and adapted to tilt therein.

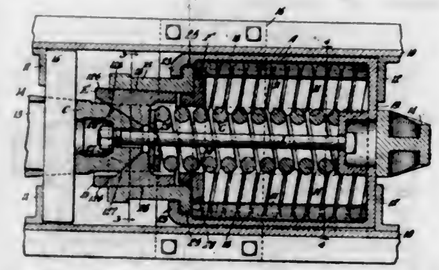
1,683,472. LADLE CRANE. HENRY M. LANE, Detroit, Mich. Filed Jan. 7, 1926. Serial No. 79,855. 8 Claims. (Cl. 22—182.)



8. A ladle crane comprising a trolley frame having depending guide members, a transverse member slidable in said guide members, a ladle frame positioned beneath said

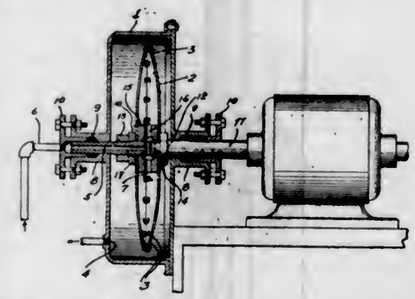
transverse member and pivotally supported thereby, a ladle carried by said ladle frame, means for tilting the ladle, a rack carried by said ladle frame, a pinion engaging said rack, gear members for operating said pinion and means connected to said gear members for controlling the movement thereof for swinging the ladle frame transversely across the line of travel of the crane.

1,683,473. FRICTION SHOCK-ABSORBING MECHANISM. GOODRICH Q. LEWIS, Wheaton, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 15, 1926. Serial No. 122,541. Renewed Dec. 17, 1927. 7 Claims. (Cl. 13—32.)



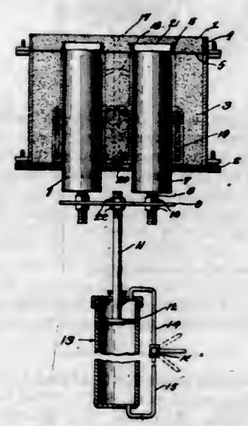
2. In a friction shock absorbing mechanism, the combination with a hollow spring cage casting open at one end, all of the walls of said cage being solid and continuous, the hollow portion of said cage providing a spring space, said opening of the cage being of less area than the cross sectional area of the spring space thereof, whereby an end abutment face is provided, said cage being provided with overhanging flanges at the open end thereof; of a friction shell having an end flange adapted to be inserted between the end abutment face and the overhanging flanges of the cage for detachably connecting the shell to the cage; spring resistance means occupying substantially the entire spring space of the cage, said spring resistance including a plurality of elements insertible through the open end of the cage; and a friction system co-operating with the shell.

1,683,474. BLOWER. GARRETT B. LINDERMAN, Jr., Erie, Pa., assignor to American Meter Company, Incorporated, New York, N. Y., a Corporation of Delaware. Original application filed May 27, 1924, Serial No. 716,223. Divided and this application filed Mar. 4, 1927. Serial No. 172,602. 1 Claim. (Cl. 230—126.)



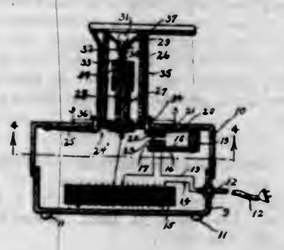
A rotor for blowers and the like, comprising a hollow shaft, a pair of opposed wall forming members mounted thereon and provided with peripheral openings and arranged with their peripheral edges inclined toward each other and with portions of the peripheral edge of one wall overlapping and bent down over the peripheral edge of said other wall, and a spacer centrally disposed between said walls and having a conduit positioned to afford communication between the recess in said hollow shaft and the interior of the blower.

1,683,475. PROCESS AND APPARATUS FOR CASTING. NELSON LITTELL, New York, N. Y. Filed May 18, 1923. Serial No. 639,771. 8 Claims. (Cl. 22—177.)



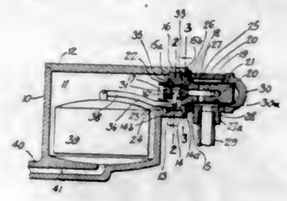
1. The process of casting a ferrous metal cylinder with a chill-hardened inner surface and an unhardened exterior which consists in introducing molten metal into a refractory mold around a rigid chill core, and withdrawing the core after the core-contacting skin of the casting has solidified, but before the casting shrinks upon the core, the withdrawal of the core commencing soon after the pouring is started and continuing until after the pouring is completed.

1,683,476. MANICURING LIGHT. CHARLES L. McMURDIE, Ferndale, Mich. Filed Nov. 17, 1927. Serial No. 233,832. 6 Claims. (Cl. 240—2.)



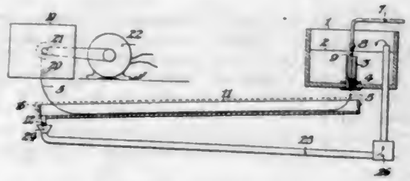
5. A device of the class described, comprising: a housing; a tubular supporting member projecting upwardly from said housing and having its bore enlarged at its upper end; a coil spring positioned in the enlarged portion of said bore; a rod projected through said bore and through said coil spring; a tube projecting upwardly from said housing, concentrically to said supporting member, and spaced therefrom; a reflector mounted on said tube; a light bulb mounted in said reflector and engaging the end of said rod; an electric circuit connected to said light bulb through said rod and through said reflector; an outer tube positioned on said first-mentioned tube in concentric relation and slidable axially thereof; and a supporting member on the upper end of said tube having an opening formed therein in alignment with said light bulb.

1,683,477. INLET MECHANISM FOR CARBURETORS. ANILO MIJARES, Yonkers, N. Y. Filed Oct. 19, 1926. Serial No. 142,654. 5 Claims. (Cl. 137—104.)



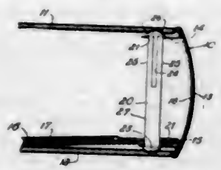
2. In a carburetor, a fuel well having a recess in the top of its vertical wall, a removable inlet unit comprising a shank set within the said recess and projecting outwardly and inwardly of the said well, a shoulder on the said shank inwardly of and adjacent the said recess, a fuel inlet connection at the outwardly projecting end of the shank, a float in said well operably connected to its inwardly projecting end, a valve slidably disposed within the said shank for regulating the admission of fuel into the well and operable by the said float, and means at the outwardly projecting end of the said shank cooperating with its said shoulder to clamp the said inlet unit to the said well.

1,683,478. VISCOSE-TREATING APPARATUS. SAMUEL A. NEIDICH, Edgewater Park, N. J. Filed June 30, 1926. Serial No. 119,591. 5 Claims. (Cl. 18—8.)



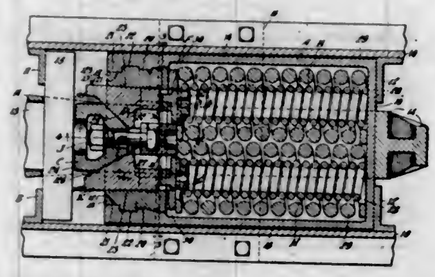
1. In a viscose treating apparatus: means constructed and arranged to automatically, longitudinally, progress a viscose filament by a fluid; comprising a conduit and means arranged to cause said fluid to progress thru said conduit; said conduit having a short restricted passageway opening into a long passageway of greater cross sectional area; and means arranged to extrude a viscose filament directly into said restricted passageway; whereby, the rate of flow of said fluid is accelerated at said restricted passageway, and said fluid subjects said filament to maximum longitudinal stress, local to said extruding means, to progress said filament.

1,683,479. PHONOGRAPH-RECORD ALBUM. MARTIN NYSTROM, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 24, 1923. Serial No. 627,288. 1 Claim. (Cl. 129—23.)



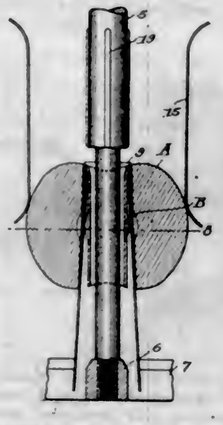
In an album a pair of stiff covers and a back connecting said covers, a pair of stiff side strips having aligned apertures, a stiff back strip rigidly connecting said side strips, and a pin extending through the apertures in said strips for retaining leaves between said covers, said side strips being immediately adjacent said covers and said pins having heads with faces engaging the outer sides of said strips, said heads being shallow and occupying the narrow space between said covers and said side strips, said pin having in one end a longitudinal slot dividing one of said heads into two parts so that they may be forced together to permit withdrawal of said head through all of said apertures, said last mentioned head having a curved outer surface to facilitate insertion of said pin through all of said apertures.

1,683,480. FRICTION SHOCK-ABSORBING MECHANISM. ROLAND J. OLANDER, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 16, 1926. Serial No. 155,151. 3 Claims. (Cl. 213—32.)



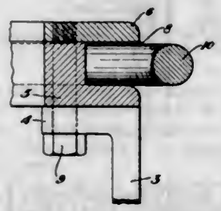
1. In a friction shock absorbing mechanism, the combination with a friction shell having longitudinally disposed friction surfaces; of friction shoes co-operating with said friction surfaces; a pressure transmitting element having wedging engagement with the shoes; and spring resistance means co-operating with the shoes, said spring resistance means including sets of members disposed at opposite sides of the mechanism, one of the members of each set opposing movement of the shoes during the entire compression stroke of the mechanism and maintaining said shoes in wedging engagement with the pressure transmitting elemnt when the mechanism is released and the other member of each set opposing movement of the shoes after a predetermined compression of the mechanism.

1,683,481. METHOD OF AND APPARATUS FOR SEED-CELLING APPLES. JOHN W. PEASE, Rochester, N. Y., assignor to Winnifred N. Pease, Rochester, N. J. Filed Mar. 4, 1927. Serial No. 172,832. 11 Claims. (Cl. 146—40.)



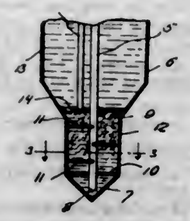
1. A method of trimming the interiors of apples which embodies coring the apple axially of its stem to remove the seeds and leave a relatively small core hole and then longitudinally cutting back the walls of the core hole in an axially longitudinal direction and on a diameter greater than that of the core hole and less than the maximum diameter of the seed cell pockets of the apple.

1,683,482. WIRE-DRAWING BLOCK. JAMES STUART PHIFER, Allentown, Pa., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed July 30, 1924. Serial No. 729,109. 1 Claim. (Cl. 205—20.)



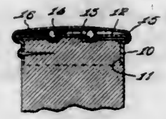
A wire drawing block comprising a drum portion, a skeleton reel-like extension extending upwardly from said drum portion and terminating in a retaining rim, said rim being cut away around its periphery to form an offset, the base portion of said offset portion having its outer edge rounded, a circular ring-like plate secured to the upper face of said retaining rim and projecting outwardly over the base portion of said offset portion to form a groove, a one-piece continuous rigid ring mounted in said groove, said ring being of round cross-section and having a materially greater internal diameter than the greatest distance between two diametrically opposite points on the back wall of said groove, and of a less internal diameter than the greatest distance between two diametrically opposite points on the outer periphery of said retaining rim, said ring being adapted to be frictionally rotated with said block and being free to move relative to said block in an eccentric path, and the wire being withdrawn from said block being passed between said ring and said retaining rim.

1,683,483. CLARIFIER. PERCY S. PINE, Salina, Kans. Filed Aug. 21, 1926. Serial No. 130,616. 3 Claims. (Cl. 210—48.)



1. In a liquid clarifier, a container having an alkali chamber, a reticulated plate member in the bottom portion of said chamber, a fluid inlet opening into the chamber below said reticulated plate member, baffle plates within the chamber above said plate member and a sediment level regulating pipe arranged within the container with its intake end disposed at the upper end of said chamber.

1,683,484. REVOLVING-GRIP SCREW DRIVER AND THE LIKE. FRED G. POST, Kenmore, N. Y. Filed May 25, 1927. Serial No. 194,183. 4 Claims. (Cl. 145—61.)



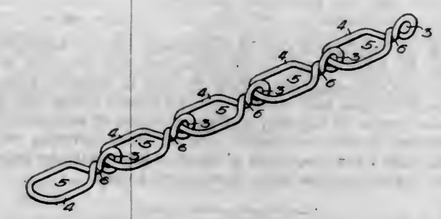
1. A rotary hand engaging means for a tool handle comprising a relatively stationary member disposed upon and extending over the end of a tool handle, means for securing said member to the tool handle, whereby it will be stationary, said member having an outwardly extending bead at its periphery, and a cap rotatably mounted upon the bead, the cap being crimped about the bead to conformingly engage thereagainst.

1,683,485. COMBINATION IMPLEMENT. GLEN J. RALL, Oxford, N. C. Filed Mar. 13, 1928. Serial No. 261,382. 2 Claims. (Cl. 120—21.)



1. In a compound instrument of the class described, an elongated barrel, the same being open at one end, a shank open at one end and adapted for disposition in the open end of the barrel, a pair of spring arms secured at one end to the shank adjacent the other end thereof, said spring arms engaging the barrel to frictionally hold the shank therein, a lead for disposition in the open end of the shank, one of the spring arms projecting beyond the open end of the shank, a laterally disposed eye portion formed on the outer end of said last mentioned spring arm for engagement with the projecting end of the lead to hold the same in clutched manner.

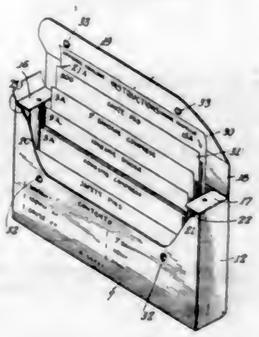
1,683,486. CHAIN. MARTIN O. REHFUSS, Philadelphia, Pa., assignor to United States Chain and Forging Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 23, 1924. Serial No. 708,435. 3 Claims. (Cl. 59—8.)



1. A chain made of a series of links in which the body portions of the links are on the same plane, each link being a continuous wire and having a body portion and a single

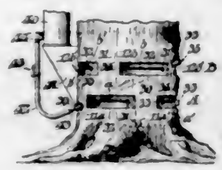
strand eye, the wire being twisted between the body and the eye to form a cross-bar, the eye being at right angles to the plane of the body portion.

1,683,487. FIRST-AID KIT. ERNEST REMLEY, East Orange, N. J., assignor to Hygienic Fibre Company, Incorporated, a Corporation of Massachusetts. Filed Feb. 12, 1926. Serial No. 87,852. 7 Claims. (Cl. 206—63.2.)



1. A first aid kit comprising a box opening along one edge, a carrier mounted in the box and having a plurality of flexible leaves of different heights with titles printed along the upper edge portions, said leaves being free from said box on at least three sides thereof and flat packages between said leaves, one side of the box being cut down to permit inspection of said titles and flexing of said leaves in the cut down portion.

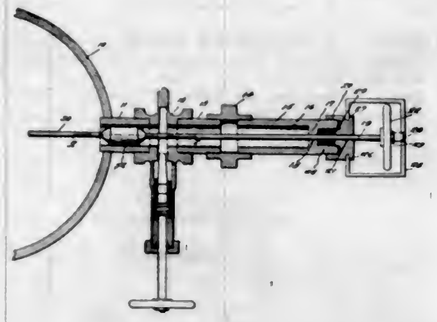
1,683,488. IMPREGNATION OF WOOD AND THE LIKE. HERBERT RENNER, Philadelphia, Pa., assignor, by mesne assignments, to Chemicolor Wood Preserving Co., a Corporation of Delaware. Filed Feb. 7, 1925. Serial No. 7,522. 3 Claims. (Cl. 47—58.)



2. The method or step of preparing a tree for impregnation by introduction of impregnating fluid into its sap ducts, which comprises boring the tree in different planes and directions and sawing from each bore across one or more sectors of the tree, so that the areas of severance in different planes marginally overlap, thus severing substantially all the sap ducts of the trees but leaving its upper and lower portions with interlocked tenons.

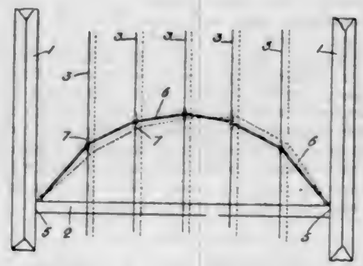
1,683,489. SCALE AND CORROSION DETECTOR. CYRUS WILLIAM RICE, Pittsburgh, Pa. Filed June 15, 1927. Serial No. 199,048. 4 Claims. (Cl. 116—114.)

1. In a device of the class described, a tubular element for connection with a steam main or the like, a valve connected with said element, a second tubular element connected with the valve, a rod extending thru the second tubular element, a corrosion detector element adapted to project into the steam main, and removable from the main



by imparting longitudinal movement to the rod, and a coupling of insulating material between the rod and the detecting element.

1,683,490. CONSTRUCTION OF AIRSHIPS. VINCENT CRANE RICHMOND and FREDERICK MICHAEL ROPE, Cardington, England. Filed Dec. 15, 1927, Serial No. 240,302, and in Great Britain Aug. 12, 1926. 17 Claims. (Cl. 244—3.)



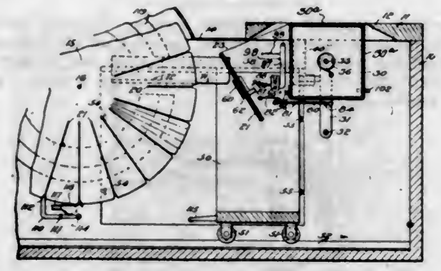
1. In a rigid airship wherein the hull framework is composed of transverse rings secured to longitudinal girders, a system of wires or the like for restraining each gasbag and for transmitting the resulting loads to anchor points on the hull framework comprising circumferential wires lying in planes normal to the axis of the airship for dealing with the radial and tangential forces due to the pressure of each gasbag, speaking relatively to the axis of the airship.

1,683,491. SELECTOR. FRANCIS F. C. RIPPON, New York, N. Y. Filed June 19, 1923. Serial No. 646,400. 36 Claims. (Cl. 129—16.1.)

1. In a device of the character described, a record magazine, a plurality of card carrying members carried by said magazine in a substantially radial position, means for revolving the magazine varying predetermined distances with said card carrying members, a platen on which the card carrying members are adapted to be supported in position for the cards to be used, and a reciprocating carrier adapted to slide a given card carrying member from said magazine and transport it to said platen.

5. In a device of the character described, a record storage member, a pivoted support adapted to display a record, a traveling carrier separate from said support and

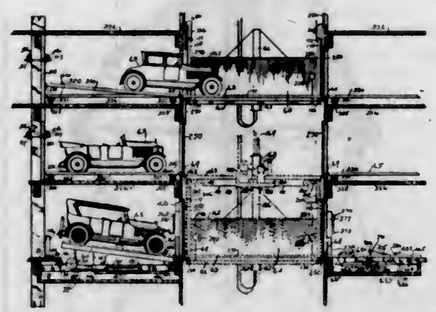
adapted to carry a record from said storage member to said support, and means on said pivoted support for removing the record from said carrier.



15. A card carrying assembly consisting of a flat plate having a plurality of oppositely disposed tabs, a plurality of guides on said plate each having a rounded forward end, and a band secured to said plate and adapted to carry a plurality of record cards.

28. In a card selector system, means for supporting a book typewriter and having an opening therein through which said book typewriter may operate, a flat platen, means for moving said platen relatively to said opening, a plurality of card carrying members having spaces for a plurality of cards, means for bringing a desired card into registry with said platen while in inoperative position and for moving said platen and said card into typewriting position.

1,683,492. MULTISTORY GARAGE. CONANT W. RUTH, Chicago, Ill., assignor to The C. W. Ruth Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1923. Serial No. 639,009. 122 Claims. (Cl. 214—16.1.)



1. A garage comprising a loading platform arranged to receive an automobile over one end thereof, an elevator car having a supporting floor normally on the same horizontally level with said loading platform, and means independent of the movement of the elevator car for lifting said end of said platform to cause said automobile to pass over the opposite end of said platform onto said elevator car.

1,683,493. ROAD COMPOSITION AND METHOD OF MAKING SAME. SAMUEL S. SADTLER, Springfield Township, Montgomery County, Pa., assignor to Amiesite Asphalt Company of America, Philadelphia, Pa., a Corporation of New Jersey. Filed Mar. 24, 1926. Serial No. 97,143. 8 Claims. (Cl. 106—31.)

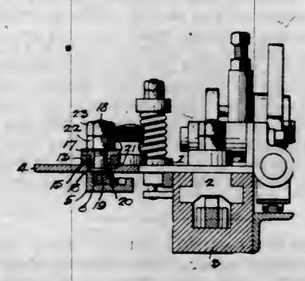
1. The method of forming a road composition, which consists in taking a mineral aggregate, mixing with said aggregate a water-in-oil emulsion of a bitumen liquefier carrying a mineral filler, and thereafter coating the aggregate with bitumen.

1,683,494. BRUSH. FRANK SIKORSKI, Bridesburg, Pa. Filed Sept. 1, 1926. Serial No. 132,982. 5 Claims. (Cl. 15—173.)



1. A brush comprising a handle housing, a clamp member arranged in said housing, brush bristles slidably positioned on said clamp member and received in said housing, said housing having one end thereof reduced in size so as to provide tapered surfaces, and means for holding said clamp member in position to clamp the bristles between the same and said tapered surfaces.

1,683,495. HOOK MOUNTING FOR PILE-WIRE-CONTROLLING MECHANISM FOR LOOMS. WILLIAM E. SMITH, Milltown, N. J., assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J., a Corporation of New Jersey. Filed May 22, 1926. Serial No. 111,019. 5 Claims. (Cl. 139—42.)

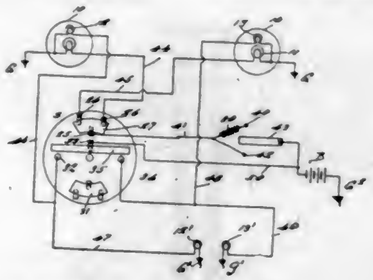


1. In a pile wire controlling mechanism for looms, comprising a wire withdrawing controlling carriage and a wire hook, a mounting for said hook, comprising a bushing adapted to be firmly clamped to the said wire controlling carriage, and on which the said wire withdrawing hook is adapted to pivot, and a flange overlying said hook, preventing vertical movement thereof relative to said carriage.

1,683,496. SIGNAL. JOHN L. STEVENS, Chandler, Ariz. Filed Feb. 13, 1925. Serial No. 9,008. 1 Claim. (Cl. 200—6.)

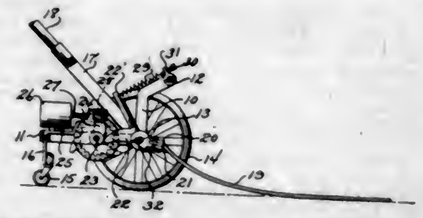
A switch comprising a stationary member and a rotatable member, said stationary member carrying spaced groups of relatively off-set contacts, a contact plate carried by the rotatable member for each of said groups, two of said contact plates normally engaging all of the contacts of their respective groups and operable to selec-

tively eliminate one contact of each group when the rotatable member is operated in either direction, and the remaining one of said contact plates normally engaging one



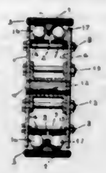
contact of its group and operable when the rotatable member is turned in either direction to engage another of the contacts of its group.

1,683,497. BEATER. LORREN STILES, Woodbury, N. J. Filed Dec. 27, 1926. Serial No. 157,297. 1 Claim. (Cl. 15—92.)



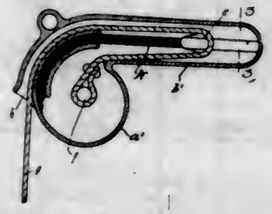
A beater comprising a wheel supported frame including an axle, beater arms mounted for free pivotal movement upon said axle, a finger rigid with each arm, a shaft mounted on the frame, means to rotate the shaft, fingers rigid with the shaft to engage the arm carried fingers for raising said arms and releasing the same when the arms are elevated an appreciable distance, an upwardly inclined finger rigid with each beater arm, arms extending upwardly from the frame at each end of the axle, a bar disposed above the axle and connecting the frame arms, springs having one of their ends connected with the upwardly inclined fingers, and means adjustably connecting the other ends of the springs with the bar to force the arms downward when the latter are released and to regulate the impact of the stroke.

1,683,498. TRACK-LAYING DEVICE. ISAAC SANTOS Y SUAREZ and ANGEL ACOSTA Y VELO, Habana, Cuba. Filed May 26, 1927. Serial No. 194,410. 4 Claims. (Cl. 305—4.)



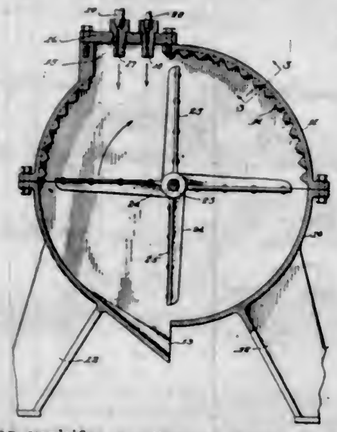
4. A track-laying device comprising a pair of opposed, spaced plates, means for connecting the plates together and for maintaining them in spaced relation, means to provide a pair of ball races between said plates, two spaced sets of spaced bearing balls, each set associated with a race, a cage for each set of balls to maintain the balls of the set in spaced relation, said balls extending beyond said plates, an endless, articulated track-laying element travelling on said sets of balls, and means on the inner face of said element and extending between said sets of balls for separating said sets relatively to each other.

1,683,499. SHOCK ABSORBER. AUGUST THOMAS, Berlin-Baumschulenweg, Germany, assignor of one-half to Carl von Haryes, Berlin, Germany. Filed Oct. 3, 1927, Serial No. 223,752, and in Germany July 2, 1926. 2 Claims. (Cl. 267—10.)



1. A shock absorber for road vehicles comprising the combination with a wheel axle of a casing constituted by a round part and a tangential extension to the said round part, a sliding member capable of sliding in the said extension, a guide for the said sliding member, a leaf spring attached to the said sliding member and a pull strap having one of its ends fixed to the wheel axle of the vehicle, the pull strap passing in the casing around the said sliding member, whereby, on the vehicle being subjected to jolts, the spring is pushed into the round part of the casing, as set forth.

1,683,500. EMULSIFIER. WILLIAM THORDARSON, New York, N. Y. Filed Apr. 13, 1927. Serial No. 183,600. 7 Claims. (Cl. 259—9.)

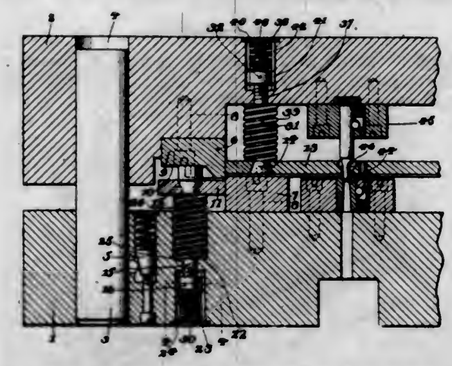


1. In an emulsifier, a cylindrical casing having a portion of its inner wall provided with acutely edged corrugations parallel to its axis and with an outlet at its lower part, a shaft extending axially through said casing and revolvable at high speed, flat paddle blades supported from said shaft to revolve therewith in position substantially radial to the axis of the casing, and a plurality of fluid delivery means arranged to drop a plurality of fluids successively into the path of said revolving blades so that the fluid drops will be struck by the blades while in mid-air.

1,683,501. REMOVABLE STRIPPER APPLIANCE. MAX EMIL TOBELEN, Detroit, Mich. Filed Oct. 27, 1927. Serial No. 229,143. 5 Claims. (Cl. 164—110.)

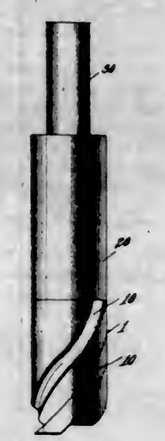
1. A removable stripper appliance for dies comprising a threaded coupling member for extension through a stripper plate and provided at one end with a head engaging

the plate, a non-rotative nut connected to the other end of said member for connecting the latter to a part of a die press in alignment with the die, a stripper plate con-



trolling spring surrounding said member and adapted to bear against the plate, and a positioning spring for said nut.

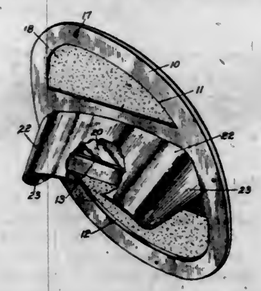
1,683,502. ROTARY DRILL BIT. HERBERT R. TUNNELL, Butte, Mont. Filed July 22, 1927. Serial No. 207,741. 1 Claim. (Cl. 255—61.)



The combination with a bit holder provided with a longitudinal bore and having spiral slots for the reception of the cutters, cutters removably mounted in said slots and spiraled to conform to the shape of the slots, each cutter having tempered cutting edges and provided at its upper end with a reduced extension with a shoulder at its inner end to abut the inner end of the slot in which it is mounted to limit its insertion in the holder and a feed rod operable in said holder and having fingers to engage the ends of said extension and move the cutters forwardly during the drilling operation.

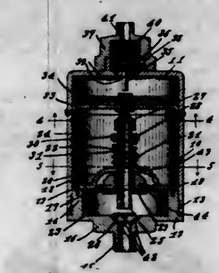
1,683,503. HEADLIGHT CLOSURE FOR MOTOR VEHICLES. EDWARD ADRIEN PERK VAN LITH, Holyoke, Mass. Filed Dec. 13, 1926. Serial No. 154,578. Renewed July 25, 1928. 1 Claim. (Cl. 240—48.4.)

A headlight closure comprising a plate having upper and lower cut-out openings therein and an intermediate cut-out opening, a glass plate supported by the back of said plate and having a clear field in register with said intermediate cut-out opening and translucent fields in register respectively with said upper and lower cut-out openings, and a shield mounted on the front of said plate



and disposed over and forward of said intermediate cut-out opening and terminating on a horizontal plane with the bottom edge of said clear field.

1,683,504. AIR-VENT VALVE FOR COMBUSTION ENGINES. JOHN J. VERTREES, Jr., Nashville, Tenn. Filed Nov. 16, 1926. Serial No. 148,697. 8 Claims. (Cl. 123—124.)



1. A device of the character described, comprising a body, normally closed spring controlled means carried by said body for admitting atmospheric air when open, a thermostatically controlled device within said body and active upon said normally closed means to automatically open the same, and normally open means within the body for delivering air therefrom into an intake manifold of an internal combustion engine and automatically closed by vacuum within said manifold to arrest delivery of air to the latter.

1,683,505. GOLF BLINDER. NORMAN STEWART WALKER, New York, N. Y., assignor to The Golfada Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 5, 1927. Serial No. 173,156. 5 Claims. (Cl. 2—14.)



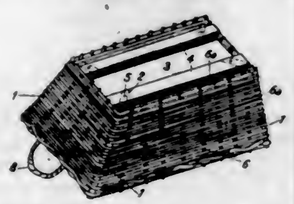
1. A device of the character described, having a sight opening therein, and a swinging gravity operated unbalanced shutter adapted to close said opening.

1,683,506. BATTER AND CANDY MEASURE. JOSEPH W. WEAVER, Lebanon, Pa. Filed Sept. 15, 1927. Serial No. 219,668. 12 Claims. (Cl. 107—28.)



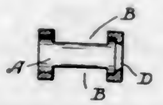
1. A machine for the purpose set forth comprising a housing providing a pump chamber, a revoluble pump cylinder extending lengthwise of and through said chamber, a series of spaced partitions secured within said cylinder and providing a series of chambers, said cylinder having two opposed, spaced sets of longitudinally spaced combined intake and discharge openings, the openings of one set being alternately disposed with respect to the openings of the other set and with an opening of each of said sets common to a chamber, said housing having its top formed with a supply slot common to a set of openings, a pump rod extending through said cylinder and carrying spaced, fixed plungers each operating in one of the chambers in the pump cylinder, plugs mounted in the ends of the pump cylinder and through which extends said pump rod, means connected to one of said plugs for revolving said cylinder and for reciprocating said pump rod, said housing having its bottom formed with a set of spaced cavities each for alternate registration with an opening of each set of openings, and a discharge nipple leading from each cavity.

1,683,507. PROCESS OF PRODUCING BASKETS AND OTHER BASKETWORK STRUCTURES. RICHARD WEBER, Dresden-Uebigau, Germany. Filed Oct. 31, 1927. Serial No. 230,129. 3 Claims. (Cl. 139—17.)



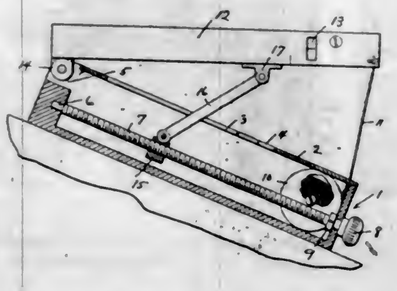
1. The process of producing baskets and other basket work structures, in which a bottom is placed on a rotatable base plate, stakes are run through the said bottom and the base plate is removed after weaving the walls of the basket, consisting in securing in a suitable manner to a base plate a frame provided with a plurality of holes for the reception of the stakes, in placing the bottom on the frame and inserting the said stakes through the bottom in the holes of the frame until they strike the base plate, and in connecting the ends of the stakes projecting beyond the bottom after removing the frame by weaving in longitudinal strands and clamping the said ends about the last strand.

1,683,508. CIGARETTE OR CIGAR MOUTHPIECE OR HOLDER. ALFRED WEINTRAUB, London, England. Filed July 19, 1926. Serial No. 123,579, and in Great Britain Aug. 26, 1925. 2 Claims. (Cl. 131—10.)



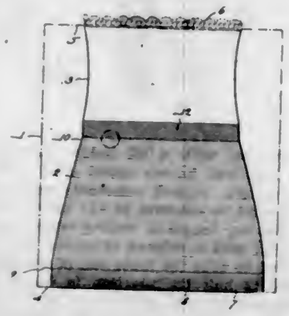
1. A cigarette holder consisting of two similar sized non-expansible rings connected together in spaced relation, one of said rings forming a mouthpiece to permit the lips to contact the surface of the cigarette beyond the same and having an internal shoulder to limit the introduction of the cigarette within the holder.

1,683,509. MECHANIC'S LEVEL. HARVEY M. WESCOTT, Brooklyn, N. Y. Filed Apr. 11, 1927. Serial No. 182,798. 1 Claim. (Cl. 33—88.)



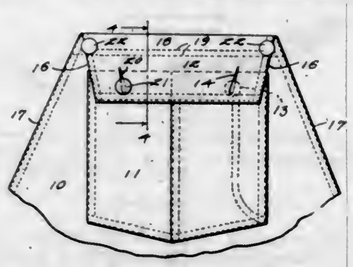
In a level of the class described, a box-like base section, a longitudinally disposed screw threaded shaft mounted for rotation in said base section, a relatively movable cover section cooperable with the base section, spirit levels on said cover section, a hinge connection between one end of the movable cover section and said base section, a casing located in and carried by said base section, a drum in said casing, a measuring tape wound upon said drum, the free end of said tape being connected with the swingable end of said movable section, a nut movable along the screw threads on said shaft, a bracket carried by the movable section, and an operating link pivotally connected to said nut and to said bracket, whereby when said shaft is rotated, said movable cover section will be moved toward and from the base section in order to actuate the measuring tape.

1,683,510. CORSET. OTTO CARL WIESE, Newton, Mass. Filed Mar. 18, 1927. Serial No. 176,583. 3 Claims. (Cl. 2—37.)



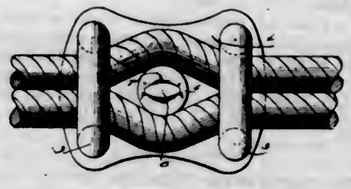
3. A shaped seamless one-piece tubular corset formed of elastic knit material, consisting of fabric yarn and laid in rubber yarn, said fabric yarn being adapted to extend from above the bust line to a position below the hip line when the corset is in use and said rubber yarn extending from the waistline to the bottom of the corset, said rubber yarn being so positioned that there is a rubber yarn in each course at the waistline and at the bottom of the corset presenting tubular bands at the waistline and at the bottom of the corset, and rubber yarns in spaced courses between said bands.

1,683,511. BIB CONSTRUCTION FOR OVERALLS. CHARLES D. WILLIAMSON, Fort Worth, Tex. Filed Dec. 17, 1927. Serial No. 240,813. 2 Claims. (Cl. 2—227.)



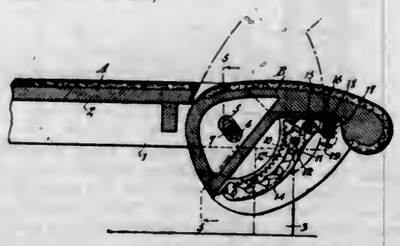
2. A garment bib having an open-topped edge thereof, an integral flap of material upon said upper edge folded back upon the front face of and secured to the bib and forming a closure flap for said pocket, said flap having a facing attached thereto at the front face thereof, the facing being of greater depth than said flap, and suspender buttons at the upper edge of the bib and at the front face of the flap, said buttons being secured to the bib by securing means extending through the bib, the flap and through the facing at opposite sides of the bib.

1,683,512. ROPE CLIP. HOWARD WISBAUER, Buffalo, N. Y. Filed Oct. 5, 1927. Serial No. 224,228. 8 Claims. (Cl. 24—135.)



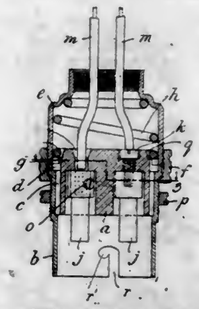
1. In a device of the character described, a base carrying adjacent to its opposite ends transversely extending inverted U-bolt clamps and having upstanding centrally therefrom between said U-clamps, a strand spreading stud.

1,683,513. RECLINING COUCH. THOMAS WOLF, Union City, N. J. Filed June 27, 1927. Serial No. 201,707. 1 Claim. (Cl. 5—73.)



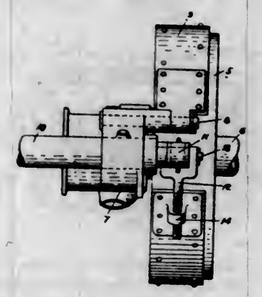
An article of furniture, including a body portion, a head section having slots in its side walls, a pivot rod extending through the slots and mounted in the body portion, rollers on said rod in the slots, a shaft mounted in the body portion, a pinion on the shaft, a toothed segment on the head section engaged by the pinion, means on one end of the said shaft for manually turning the same, and ratchet means engaging the shaft to hold the head section in any position of pivotal adjustment.

1,683,514. ELECTRIC-LAMP HOLDER. JOSEPH WILLIAM WYATT, Redcar, England. Filed Mar. 15, 1926. Serial No. 94,904, and in Great Britain Apr. 17, 1925. 1 Claim. (Cl. 173—328.)



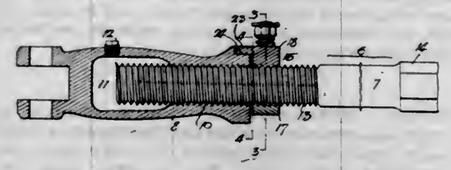
A lamp holder of the class described comprising a cap member, a spring member, lugs on said cap member for supporting said spring member, an insulating support having grooves, a lower member having means for connection to said cap member, lugs on said lower member, contact making pins mounted on said insulating member, said lugs on said cap and lower member entering said grooves on the insulating member whereby relative rotative movement is prevented between said insulating member, cap member and lower member.

1,683,515. BRAKE MECHANISM. HARRY C. ZIMMERMAN, Washington, D. C. Filed Mar. 2, 1925. Serial No. 12,782. 3 Claims. (Cl. 188—77.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G. 757.)



2. The combination with a drum brake including a brake band of a swinging arm pivoted at a point within the circumference of the band and actuated by release of the band to move outwardly from the drum.

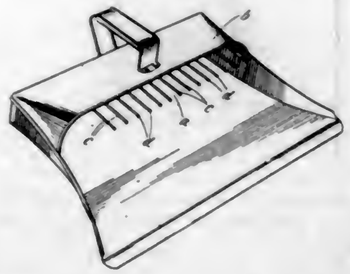
1,683,516. BRAKE ROD. WALTER S. ADAMS, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 7, 1926. Serial No. 114,259. 2 Claims. (Cl. 151—2.)



1. A threaded clamping member made in two parts, one part having a projection adapted to a notch in a threaded head mounted on the same threaded rod as the clamping

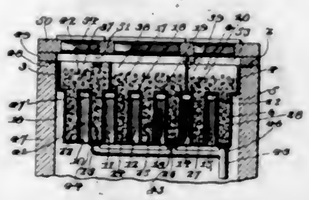
member; bolts extending through the two parts of the clamping member; and springs on the bolts for exerting a yielding pressure to frictionally retain the clamping member on the rod.

1,683,517. DUSTPAN AND THE LIKE. MARGUERITE EDITH BENTLEY, Longfield, England. Filed Jan. 26, 1927, Serial No. 163,771, and in Great Britain Jan. 28, 1926. 1 Claim. (Cl. 65—20.)



A dust-pan or the like, having a cowl, a handle secured to said cowl, a series of forwardly projecting parallel teeth in the form of short lengths of wire secured to the front edge of said cowl, and enlarged ends to said teeth whereby a brush can be cleaned and the hairs uninjured by drawing its hairs through said teeth.

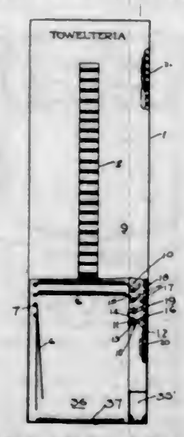
1,683,518. COOLING TANK FOR REFRIGERATORS. CHARLES J. BERTHEL, Wilson, N. C., assignor to Hackney Brothers, Inc., Wilson, N. C. Filed Aug. 24, 1927. Serial No. 215,173. 4 Claims. (Cl. 62—69.)



1. A cooling tank for refrigerators comprising a one-piece body portion having spaced means arranged therein to provide the upper part thereof with a plurality of independent, upper refrigerant receiving compartments and its lower part with sets of spaced refrigerant receiving troughs, said sets being spaced from each other by air chambers and with each set opening into the bottom of an upper compartment, said troughs forming air chambers therebetween, said chambers opening at the bottoms thereof, said body portion having the lower portion of each side thereof inset with respect to the upper portion thereof whereby the combined width of said trough will be less than the combined width of said compartment, said troughs being rectangular in cross section, said body portion being open at its top and provided at its upper end with an outwardly disposed right angularly extending flange coextensive therewith.

1,683,519. TOWEL-VENDING DEVICE. ORVILLE M. BLAIR and WILLIAM E. WILLIAMS, San Francisco, Calif., said Orville M. Blair assignor to Minnie Blair, San Francisco, Calif. Filed Nov. 8, 1926. Serial No. 146,908. 4 Claims. (Cl. 312—94.)

1. An apparatus of the class described, comprising the combination with a casing forming an article-enclosing magazine, of a plurality of superposed article-supports carried by said casing, each of which has one edge hingedly secured thereto, pawl means mounted in said casing adapted

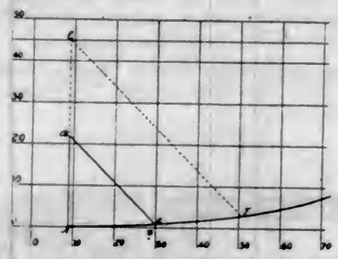


to engage in interlocked V-shaped formation and to also engage the free ends of said supports, and a tripping mechanism coactively associated with said pawls.

1,683,520. PROCESS FOR TREATING CRAPE WASTE. GEORGES BONNARD, Le Touvet, France. Filed Apr. 30, 1927, Serial No. 188,049, and in France May 10, 1926. 16 Claims. (Cl. 19—66.)

1. A process for treating crape waste material which comprises running said waste through a waste opening machine to break up the threads into substantially equal lengths, carding said waste material, immersing said waste material in boiling water, drying said waste material and subsequently recarding said waste material for the purpose set forth.

1,683,521. PROCESS OF TREATING WATER. JULIANUS WILHELM MEUSER BOURGOGNION and CARL LUDWIG PHILIPS, Nijmegen, Netherlands. Filed May 17, 1927, Serial No. 191,923, and in the Netherlands May 10, 1926. 2 Claims. (Cl. 210—23.)



1. The process of treating water, which comprises increasing the temporary hardness thereof by treatment with a hardening agent selected from the group including lime and calcium carbonate, and the corresponding magnesium compounds, taking care always, that the quantity of free CO_2 present in the finished product is equal to the corresponding CO_2 of the new hardness.

1,683,522. METHOD OF DAMPING OSCILLATIONS FOR USE WITH SUSPENSION LEAF SPRINGS AND THE LIKE. FERNAND LOUIS BROUSSOUSE, Paris, France. Filed July 12, 1924, Serial No. 725,570, and in France July 12, 1923. 2 Claims. (Cl. 267—47.)

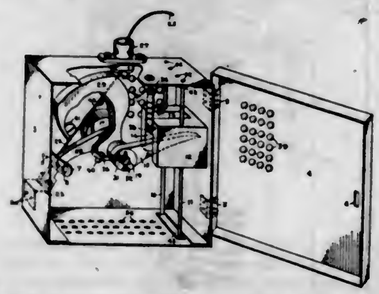
1. A plurality leaf spring of the character described, the leaves having a curved body portion and extremities,

the extremities of one or more of said leaves having a curvature differing in form from that of the general curvature of the spring, and means for forcing the extremities of



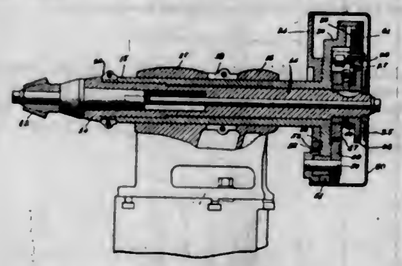
such leaves under tension into contact with the other leaves forming the body of the spring, said means consisting of a maintaining strap.

1,683,523. VALVE MECHANISM. ERNEST P. BUCKLEY, New York, N. Y., assignor, by mesne assignments, to Permex Corporation of America, a Corporation of New Jersey. Filed Feb. 1, 1927. Serial No. 165,116. 4 Claims. (Cl. 137—162.)



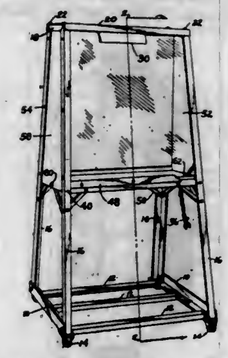
1. In valve operating mechanism of the class described, a valve spindle, a weight normally supported at one side of the center of said spindle for holding the valve open, another weight normally retained against gravity by a fusible link and adapted when said link is fused to throw said first mentioned weight over the center of said spindle, whereby said valve is closed and the first mentioned weight retains said valve in closed position, said second mentioned weight mounted independently of said spindle.

1,683,524. INDEXING MECHANISM. EDWARD W. BULLOCK and GEORGE H. BRYAN, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed July 18, 1921. Serial No. 485,505. 49 Claims. (Cl. 90—56.)



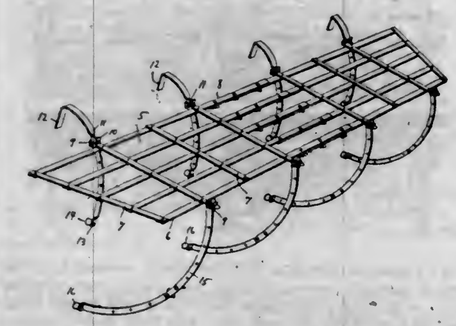
1. In a gear generating machine, the combination with a generating sleeve and means for imparting an oscillatory motion thereto, of a blank spindle rotatable within the sleeve, locking means connecting the blank spindle and sleeve and oscillating with the latter, a stationary member for engagement by the locking means during oscillation thereof for releasing the same, a stationary device, and means moved by said oscillating means and engaging said device for effecting rotation of the blank spindle when thus released to effect indexing.

1,683,525. ACCESSORY MERCHANDISER. GUSTAV A. BURANDT and ALGOT W. NORDGREN, St. Paul, Minn., assignors to Marquette Manufacturing Company, St. Paul, Minn. Filed May 21, 1927. Serial No. 193,301. 4 Claims. (Cl. 312—140.)



1. In a merchandiser or display device of the kind described, a frame, upright members extending therefrom and arranged in pairs at the ends of said device and inclined toward each other, a top for said device having downturned flanges, said top being connected with said uprights, a floor board supported on said uprights spaced from the bottom of said device, transparent members supported above said floor board at the front and rear of said device, guides on the underside of said top and on the top of said floor board, a partition member received in said guides and closure members for the upper part of said device above said floor board.

1,683,526. FLOWER-DISPLAYING DEVICE FOR COFFIN LIDS. WYATT R. CAMPBELL, New Castle, Pa. Filed Oct. 27, 1927. Serial No. 229,206. 2 Claims. (Cl. 211—86.)

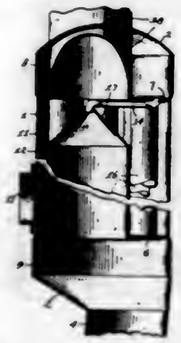


1. In a flower support for casket lids, a frame unit, a plurality of metallic straps secured transversely on said frame unit, the ends of certain of the straps being twisted at right angles, elongated flat bars of arcuate shape, said bars being pivotally connected to said twisted ends of the strap and are twisted to right angles at their upper ends and are bent inwardly to provide hook portions for engagement over the elevated lid of a coffin, and means for supporting the opposite edge of the frame unit.

1,683,527. HEATER. ILARIO CAPRIN, San Francisco, Calif. Filed Apr. 4, 1927. Serial No. 180,877. 2 Claims. (Cl. 257—167.)

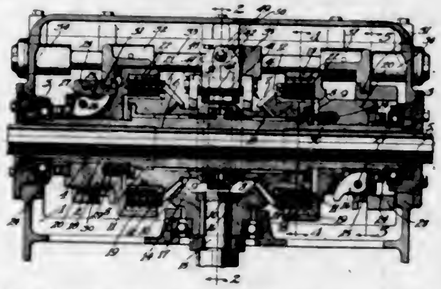
1. A heater comprising a chamber arranged to be connected between adjacent sections of a chimney; partitions mounted within the chamber to form smoke compartments

within the ends of the chamber and an air heating compartment intermediate the smoke compartments; an air inlet arranged to admit air into the heating compartment; an air outlet connected into the heating compartment and arranged to conduct heated air to a point relatively remote from a chamber; a heating drum mounted within the chamber and having one end opening directly through one of the



partitions into the adjacent smoke compartment, the opposite end being reduced; a relatively small tubular passage connected between the reduced end of the drum and the smoke passage adjacent thereto; and a plurality of smoke passages connected between the partitions to communicate between the smoke compartments through the heating compartment.

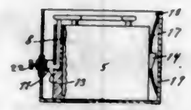
1,683,528. CLUTCH MECHANISM FOR REVERSING GEAR. JACK C. CARLTON, Cincinnati, Ohio, assignor to The Carlton Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 23, 1924. Serial No. 708,555. 1 Claim. (Cl. 192—69.)



In a friction clutch, a sleeve rotatably journaled, a first clutch member journaled upon said sleeve, and confined thereon against axial displacement, a second clutch member, slidable upon and rotatable with said sleeve, friction discs interposed between said clutch members, and housed thereby, a plurality of levers mounted in a hub of said second clutch member, for moving said second clutch member to bring the clutch members and discs into compression, an adjustable abutment on said sleeve, against which said lever engage, and means slidable axially of the sleeve for simultaneously actuating said levers.

1,683,529. AUTOMOBILE BATTERY. DANIEL COHELAN, San Francisco, Calif. Filed Oct. 24, 1927. Serial No. 228,448. 1 Claim. (Cl. 136—171.)

In combination with a storage battery and a case therefor, of terminals positioned on said case and located at a point below the upper surface thereof, means for conducting electric current from said battery to said terminals, a metallic case surrounding the sides and bottom of said battery case, contacts positioned in said metallic case and adapted to be engaged by said terminals, one of said contacts being insulated from said metallic case, a plate positioned within said metallic case, said plate having an open-



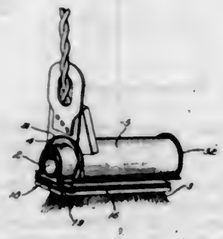
ing formed therein, a lug carried on said battery case and adapted to project through the opening in said plate, said plate being curved in a direction so as to cause said terminals to engage said contacts for the purpose specified.

1,683,530. BRUSH. ERIC LEOPOLD HUGO COSBY, Teddington, England. Filed July 1, 1927, Serial No. 202,928, and in Great Britain Mar. 10, 1927. 4 Claims. (Cl. 15—176.)



1. A brush including a back having a longitudinal recess therethrough, a spring actuated rod mounted in said recess and accessible from the exterior of the back, a plurality of catch members carried by said rod and movable therewith, a bristle-carrying member adapted for coextensive alinement with the back, and mating catch members carried thereby to be engaged by the catch members of the rod to hold the bristle-carrying member to the back.

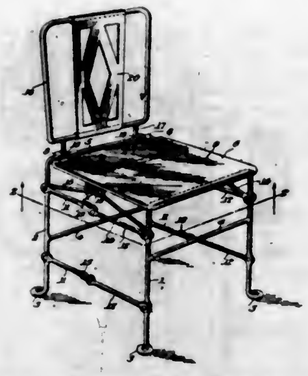
1,683,531. HAIR-WAVING OUTFIT. GEORGE DECKER, Cleveland, Ohio, assignor to Realistic Hair Waving Machine Co., Cleveland, Ohio, a Corporation of Ohio. Filed May 17, 1927. Serial No. 192,067. 5 Claims. (Cl. 132—36.)



3. A hair waving outfit, comprising a clamp for clamping a bunch of hair near the roots, a coil rod for receiving and coiling said hair to produce a coil of hair, a moisture

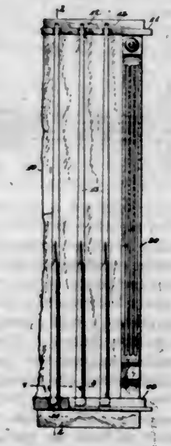
carrying pad mounted on said coil of hair, a foraminous shell fitted over said pad, a spring holder straddling said shell acting to press the shell snugly against said coil of hair, said rod being rotatable for bringing said hair under tension, means for preventing a reverse rotation of said rod, and heating means removably mounted over said shell.

1,683,532. FOLDING CHAIR. EMEN DERWISH, Fertile, Minn. Filed Jan. 14, 1928. Serial No. 246,887. 3 Claims. (Cl. 155—148.)



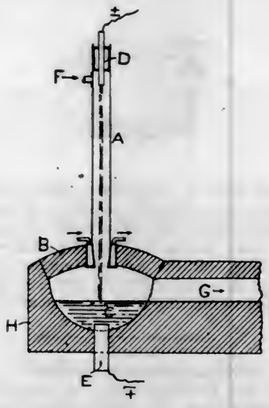
1. A foldable chair constructed of metal and comprising front and rear legs, each of a substantially inverted U-shaped formation and each leg having lower foot portions, brace members connecting the respective front and rear legs, a seat hingedly secured to the connecting element of the rear legs and swingable over the connecting element of the front legs, a back hinged to the connecting element of the rear legs and having a lip to underlie the seat, pivotally associated breakable brace members between the front and rear legs, and pivoted latch rods on the front and rear legs for removable engagement with the seat.

1,683,533. CUE RACK OR THE LIKE. THOMAS DROST, New York, N. Y., assignor to H. Wagner and Adler Co., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1927. Serial No. 237,268. 2 Claims. (Cl. 211—68.)



1. As a new article of manufacture, a cue rack or the like comprising a support having spaced upper and lower horizontal rails, the upper rail having notches in its edges to receive the smaller ends of cues, the lower rail having pockets therein receiving the cue butts, the walls of said pockets being unbroken and inclined, the longitudinal axes of said pockets from top to bottom inclining outwardly away from the support whereby the gravity-assisted camming action of the pocket walls on the cue butts throws the upper ends of the cues into the notches.

1,683,534. METHOD OF USING HIGH-TENSION ELECTRIC ARCS FOR TREATMENT OF GASES. EMIL EDWIN, Trondhjem, Norway, assignor to Aktieselskapet Norsk Staal Elektrisk-Gas-Reduktion, Trondhjem, Norway. Filed Aug. 24, 1925, Serial No. 52,200, and in Norway Aug. 26, 1924. 4 Claims. (Cl. 266—1.5.)

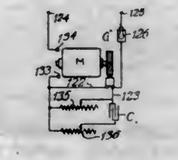


1. The method of treating gases, which comprises drawing a high tension arc between an upper cold electrode and a lower hot molten electrode of heat-resisting and not materially volatilizable material by passing the gas along and around the arc from the cold electrode to the hot electrode, thereby supplying a greater quantity of heat to the gases.

1,683,535. SOLUBLE AND FUSIBLE WHITE ACETONE RESIN AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J. Filed May 25, 1923. Serial No. 641,517. 4 Claims. (Cl. 260—3.)

1. A fusible resin soluble in alcohol prepared from about one mol. of acetone to six mols. of formaldehyde in the presence of aqueous caustic soda, said resin being substantially colorless.

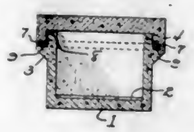
1,683,536. GOVERNOR FOR ELECTRIC MOTORS. MARVIN FERREE, New York, N. Y., and JOSEPH WISSMAR, Cleveland, Ohio, assignors to Picture Transmission Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 31, 1925. Serial No. 5,955. 2 Claims. (Cl. 171—229.)



1. A governor for an electric motor comprising a revoluble member embodying two contact members insulated from each other and adapted to be connected by a movable switch member adapted to be moved away from one of

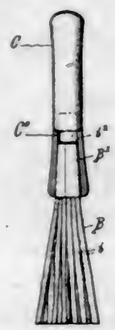
said contacts under the action of centrifugal force to break the motor circuit, means adapted to urge said switch member to the circuit closing position, one of said contact members being adapted to be connected to one of the power terminals and the other of said contact members being adapted to be connected to one of said motor terminals, a condenser, a resistance permanently connected between said motor terminal and the said power terminal, and a second resistance permanently connected to said motor terminal at one end and connected at the other end thereof to one terminal of said condenser the other terminal of which is connected to the corresponding end of the first mentioned resistance.

1,683,537. VAULT. ROBERT L. FOLMAR, Goshen, Ala. Filed Oct. 31, 1927. Serial No. 230,009. 2 Claims. (Cl. 72—7.)



1. A burial vault of reinforced molded concrete having an internal space to receive a casket, a peripheral ledge to support a lid, a lid of reinforced concrete forming an easy fit with the body having an inwardly sloping edge, and a peripheral flange on the lid overlapping the base, said flange having air vents above its botton to permit sealing cement to flow in forming a secure cement locked joint.

1,683,538. SINGLE-SERVICE BRUSH. CLIFFORD J. FRANCOIS, Sr., McDonoghville, La., assignor of one-half to John Harry Haas, Sr., McDonoghville, La. Filed Dec. 6, 1927. Serial No. 238,054. 1 Claim. (Cl. 15—226.)

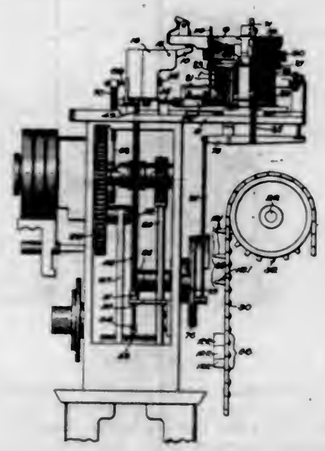


A brush comprising a substantially cylindrical handle flared outwards near its lower end and provided with a frusto-conical chamber in said lower end, and a body portion composed of a number of wisps of crinkled paper free at their lower ends, and gripped near their upper ends in a paper band, said band and enclosed wisps forming a tapered head for said brush adapted to fit snugly and removably in said frusto-conical chamber in the handle.

1,683,539. STABILIZER AND PLASTER COMPOSITION CONTAINING THE SAME. ALFRED HUGH GALLAGHER, Chicago, Ill. Filed Sept. 19, 1927. Serial No. 220,640. 5 Claims. (Cl. 106—34.)

1. A stabilized plaster composition comprising gypsum plaster, nitrogenous organic retarding material of such effective strength as to inhibit the setting of the plaster for a predetermined period of time, and crystal-forming calcium sulfate accelerating material of such effective strength as to effect setting of the plaster in a period of time not greatly exceeding that predetermined.

1,683,540. STRIPING ATTACHMENT FOR KNITTING MACHINES. AUGUSTINE GAGNÉ, Central Falls, R. I., assignor to Hemphill Company, Providence, R. I., a Corporation of Massachusetts. Filed Mar. 29, 1921. Serial No. 456,780. 37 Claims. (Cl. 66—140.)



1. In a hosiery knitting machine, auxiliary yarn changing means to effect changes of yarn at the tips of the toe and heel, said means including a pair of yarn guides, a cam member having peripherally positioned thereon two spaced cams sloping toward each other, one of said cams adapted to act in one direction of movement upon one of said yarn guides and the other adapted to act in the opposite direction of movement upon the other yarn guide, and means to impart to and fro movement to said cam means.

1,683,541. SPRING BUFFER FOR MOTOR VEHICLES. WILLIAM BALLINGTON GLOVER and WILLIAM HENRY RICHARDSON, Subiaco, near Perth, Western Australia, Australia. Filed Sept. 9, 1927, Serial No. 218,520, and in Australia May 11, 1927. 1 Claim. (Cl. 293—55.)



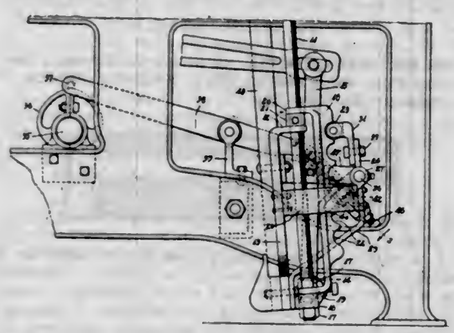
In a buffer for motor vehicles, a guard comprising two spaced plates connected together at their ends, two conical spiral springs forming a resilient support for said guard, and means for attaching each spring at its larger end to the plates, said means including an outer clamping strap extending across the space between said plate and engaging the outer face of both plates, a bolt connected to the strap and extending between the plates, a disk plate mounted upon the bolt and bearing against the inner faces of both of the plates and against which the spring abuts, a second clamping plate also mounted on said bolt and having recessed terminals to engage the terminal of the spring and be clamped thereagainst to hold the spring upon the disk, and a nut upon the bolt and bearing against the rear side of said second clamping plate for locking the parts in clamped relation.

1,683,542. CANDY PACKAGE. GEORGE W. GREENWOOD, Wilmington, Del., assignor to Stephen F. Whitman & Son, Inc., Philadelphia, Pa. Filed June 24, 1927. Serial No. 201,232. 2 Claims. (Cl. 206—46.)



1. A candy package comprising a plurality of similar pieces of candy superposed on one another, and having notches formed in their edges diametrically opposite one another, and flexible means passed around said package and seated in the notches of a candy piece forming one end of the package to prevent separation of the candy pieces from each other and of the said means from the package as a whole.

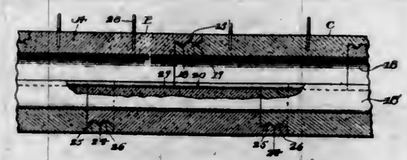
1,683,543. AUTOMATIC BOX LOCK FOR DROP-BOX LOOMS. JOHN D. GROVES, Milltown, Me., assignor of one-third to Lemuel R. Groves, East Millinocket, Me. Filed Oct. 3, 1927. Serial No. 223,819. 7 Claims. (Cl. 139—182.)



1. In a loom, an oscillatory lay member, a slidable shuttle box lifting member movable therewith and slidable relatively thereto, a latch carried by the oscillatory member for locking the slidable member in different positions, a mechanically operable member movable in synchronism with said oscillatory member, and a connection between the mechanically operable member and latch including a spring and so arranged that the movement of the oscillatory member in one direction and the movement of the mechanically operable member in the corresponding direction will jointly move the latch to unlocking position and that the joint movements of the oscillatory and mechanically operable members in the opposite directions will move the latch to locking position under spring pressure.

1,683,544. SECTIONAL PIPE, CONDUIT, OR CULVERT UNIT. CHRISTIAN LUDVIG HANSEN, Charles City, Iowa. Filed May 17, 1927. Serial No. 192,072. 3 Claims. (Cl. 72—51)

1. In a pipe, conduit or culvert, a unit of polygonal cross sectional contour and comprising a pair of superposed sections each having its inner face formed with a lengthwise extending groove of less width than the width of said face, said grooves registering to provide a channel, each of said sections further having its inner face at one end formed with a pocket conforming in contour to the shape of the grooves, the wall of said pocket formed with spaced ribs, each of said sections further having its other end provided with an extension spaced from the outer periphery of the section, conforming in contour to the shape of the grooves and having spaced grooves in its outer periphery to receive the ribs on the wall of a pocket, and said sections having the inner faces thereof formed with



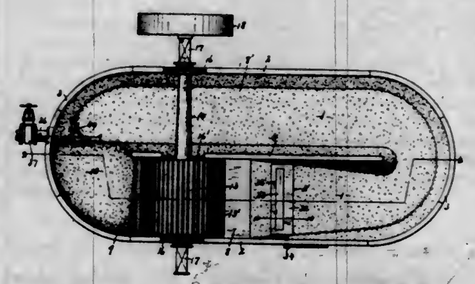
inherent interengaging coacting means adjacent the grooves in said faces to prevent lateral shift of the sections relative to each other and to provide a joint therebetween, the pockets of one unit adapted to receive the extensions of an adjacent unit to provide joints therebetween.

1,683,545. ARTICLE OF JEWELRY. RAY A. HARRIS, North Windham, Conn. Filed Dec. 14, 1927. Serial No. 239,990. 1 Claim. (Cl. 63—1.)



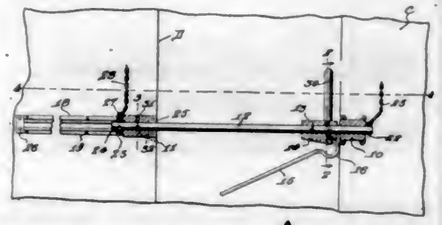
An article of jewelry comprising an ornament in the form of a container having openings therein, means to detachably secure the lower end of the container to the front of a garment at the top of the latter, chains having their inner ends secured to the top of the container, and means at the outer ends of the chains for detachable connection with the shoulder straps of a garment to support said container in upright position and hold said shoulder straps in place.

1,683,546. BEATING ENGINE. JOHN D. HASKELL, Fulton, N. Y., assignor to Dilts Machine Works Incorporated, Fulton, N. Y., a Corporation of New York. Filed May 18, 1926. Serial No. 109,898. 21 Claims. (Cl. 92—24.)



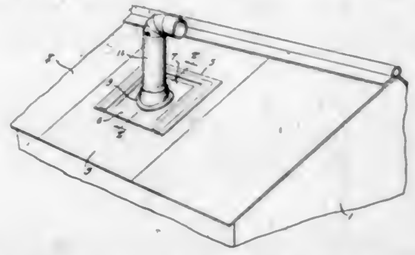
1. A closure for shaft openings in paper stock containers, comprising a flexible diaphragm having a gland for receiving the shaft.

1,683,547. MAIL-CAR DEVICE. WILLIS R. HOLE, Salem, Ohio. Filed Oct. 26, 1927. Serial No. 228,889. 3 Claims. (Cl. 258—21.)



2. The combination with a mail car, of a horizontally disposed rod, a stationary bearing secured to the car at one side of the car door to removably receive one end of the rod, a bearing located upon the opposite side of the car to slidingly and rotatably support the rod, means to slidingly mount the last mentioned bearing, means to hold the bearing against movement and means to prevent longitudinal or rotary movement of the rod.

1,683,548. PIPE COLLAR. RICHARD A. HUGHEY, Sprott, Ala. Filed July 11, 1927. Serial No. 204,980. 2 Claims. (Cl. 285—31.)



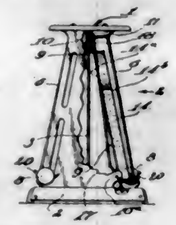
1. A roof attachment including a metal sheet designed to be fixedly secured on the roof of a building and said sheet having an opening therethrough, a guide flange on the sheet comprising a substantially U-shaped member having its sides and end portion disposed adjacent the sides and to the end of the opening nearest the top of roof, a plate received in the guide flanges, and soldered to the sheet, said plate having a smoke pipe receiving opening therethrough and an outstanding collar surrounding said opening.

1,683,549. SCRUBBING MOP. ERNEST POLK JONES, Pulaski, Tenn. Filed Mar. 19, 1927. Serial No. 176,745. 4 Claims. (Cl. 15—229.)



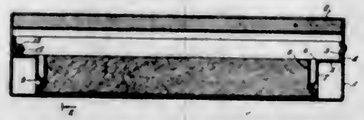
1. A scrubbing mop including a ring, padding secured to the ring and depending therebelow, yarn looped in strands over said ring, stitches connecting the yarn strands below the ring, a handle support, and a supporting cross plate to which said handle support is connected, said plate disposed diametrically across the ring and having recessed ends forming corner extensions, the said extensions being secured around the ring, permitting the yarn to extend substantially continuous around the ring.

1,683,550. TOAST INSPECTOR. DANA E. KEECH, Los Angeles, Calif. Filed Jan. 21, 1924. Serial No. 687,592. 11 Claims. (Cl. 53—5.)



10. In a toaster the combination of: means for supporting a piece of bread on an inclined plane; a horizontally pivoted bread carrier; means for shifting the bottom of the bread outwardly into said carrier so that it will fall upon the carrier with inner face downward; and a member for optionally tilting the top of the bread outwardly so the bread will fall into the carrier, inner face upward.

1,683,551. VANITY CASE. WILLIAM G. KENDALL, Newark, N. J. Filed Feb. 10, 1928. Serial No. 253,429. 7 Claims. (Cl. 132—83.)



1. A vanity case including a body, a cover therefor, a compact plate holder, and means for hingedly connecting the cover with the holder, said means including a looped projection extending from said cover inwardly, an aperture extension forming part of said body, said projection extending through the aperture in said body, and a pintle extending through said looped projection, said pintle overlapping part of said body.

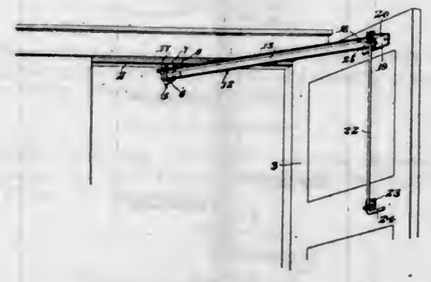
1,683,552. COMPACT-PLATE-HOLDING RING. WILLIAM G. KENDALL, Newark, N. J. Filed Feb. 10, 1928. Serial No. 253,430. 9 Claims. (Cl. 132—83.)



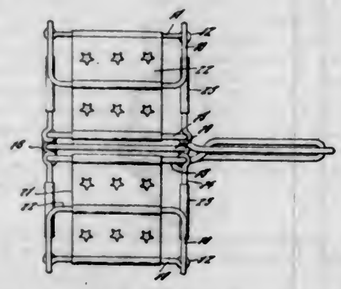
1. In a vanity case, a holding ring for removably holding a compact plate, said ring comprising an L-shaped structure adapted to snugly fit into the vanity case, a plurality of resilient fingers extending from said ring for removably locking the ring in the case, and means extending from the ring interlocking with the compact plate for holding the same in position.

1,683,553. LATCHING MECHANISM. ALVA L. KERR, Mansfield, Ohio. Filed Oct. 25, 1927. Serial No. 228,622. 1 Claim. (Cl. 292—267.)

A latching mechanism for the purpose set forth comprising a stationary, angularly disposed yoke-shaped keeper element providing a combined support and guide, a latching element of L-shaped cross section including a vertical and a horizontal leg and with the horizontal leg extending from the upper end of the vertical leg, said latching element slidably extending through said keeper element and having its vertical leg supported by the keeper element, said latching element bodily shiftable by a door on the opening and closing thereof, a combined releasing and door connecting means for said latching element connected to the horizontal leg thereof, the horizontal leg of said latching element being provided with a notch in proximity to its inner end and a notch in proximity to its outer end, the inner of said notches coacting with the keeper element to latch the door in open position and said outer notch coacting with the keeper element to latch the door in closed position, and an outwardly projecting spring anchored at its forward end to the outer face of said vertical leg in proximity to its inner end and coacting with one side of the keeper element to force the latching element against the other side of the keeper element when the latching element is shifted outwardly.

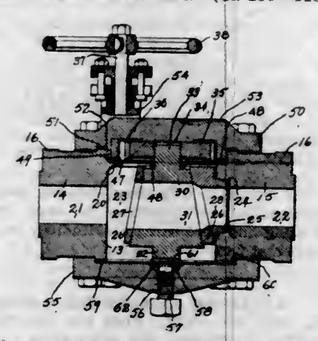


1,683,554. POTATO-BAKING DEVICE. ROLAND D. KENYON, Carthage, N. Y. Filed Aug. 24, 1927. Serial No. 215,234. 2 Claims. (Cl. 53—6.)



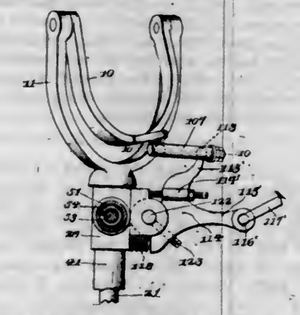
1. A potato baking device comprising companion sections, each section including a substantially U-shaped frame, transverse rods connecting the parallel portions of said frame, a handle carrying frame arranged above the U-shaped frame, vertical rods connecting the said parallel portions of the U-shaped frame with said handle carrying frame, a metallic member arranged along the bottom of the U-shaped frame and including end portions secured to the handle carrying frame, metallic strips arranged at the sides of the sections and secured to said vertical rods, links connecting the handle carrying frame of the respective sections, whereby the latter are hingedly mounted and adapted to be arranged in superimposed relation, and said handles being of loop-like formation and arranged to fit one within the other when the sections are superimposed.

1,683,555. VALVE. FREDERICK E. KEY, East St. Louis, Ill., assignor to Key Boiler Equipment Co., East St. Louis, Ill., a Corporation of Missouri. Filed July 17, 1926. Serial No. 123,091. 13 Claims. (Cl. 251—113.)



1. A valve comprising a casing, a valve housing adapted to be removably secured within said casing and having its major portion free and unattached, means for securing said housing within said casing, a rotary plug mounted in said housing, means within the casing for operating said rotary plug, means for locking said rotary plug when in opened or closed position, removable caps carried by said casing for affording access thereto for the removal and replacement of the valve housing and rotary plug, and means projecting through one of said caps for placing said rotary plug operating means in operation.

1,683,556. HEADLIGHT-SHIFTING MECHANISM. HARRY M. KINSLEY, CLIFFORD A. CRESWELL, and HARRY F. MESSER, Lancaster, Pa. Filed Aug. 31, 1927. Serial No. 216,706. 4 Claims. (Cl. 240—62.)

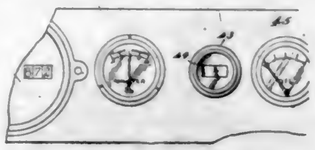


4. In a shifting mechanism for the headlights of a motor vehicle, a pair of vertical rotatable shafts, a collar fixed to the lower end of each of said shafts and formed with an arm, a tie rod having universal joint connections with said arms, a connecting rod having a universal joint connection with the tie rod and formed with means to provide a universal joint connection with a steering mechanism, means to normally hold the shafts against rotation, a fixed yoke formed on the upper end of each shaft, a movable yoke pivotally connected with the fixed yoke and adapted for immovable connection with a headlight, a lever carried by each of said supports, and a link having universal joint connections with the lever and movable yoke, said levers being pivoted on horizontal axes and having means for normally preventing pivotal movement.

1,683,557. TANK GAUGE. CARL FRED. KOKEMILLER, Story City, Iowa. Filed Sept. 10, 1923. Serial No. 661,946. 2 Claims. (Cl. 116—118.)

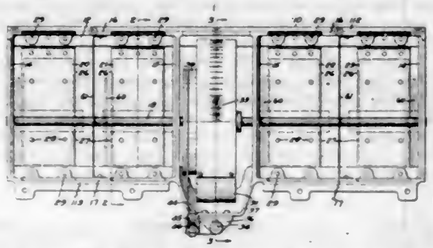
2. In combination a support having an opening therein, a tubular housing supported vertically to one side of the support with one end in transverse alignment with the

opening, a liquid level responsive indicating element rotatably supported in a horizontal plane on the tubular housing, a horizontally disposed casing open at one end and insertable longitudinally through the opening and



receiving the rotatable indicating element, and provided with a longitudinal slot receiving the upper end of the tubular housing and permitting longitudinal movement of the casing to and from the opening.

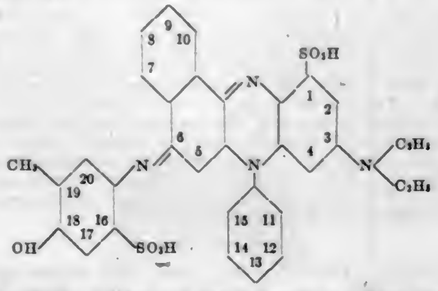
1,683,558. VARIABLE CONDENSER. FREDERICK A. KOLSTER, Palo Alto, Calif. Filed Apr. 28, 1926. Serial No. 105,050. 11 Claims. (Cl. 175—41.5.)



1. A device of the class described comprising a frame adapted to be mounted behind an instrument panel, a plurality of variable condenser structures mounted on said frame, a horizontal shaft parallel to the panel connecting said structures, said frame including a plurality of metallic shielding plates intermediate said condenser structures on more than two sides thereof a control shaft extending normal to said former shaft, and means for operatively connecting said shafts.

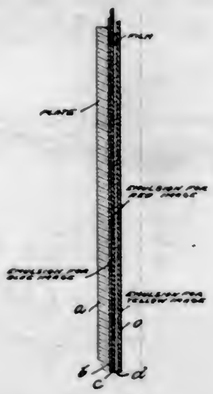
1,683,559. MANUFACTURE OF ACID DYESTUFFS OF THE PHENONAPHTHOSAFRANINE SERIES. PAUL LAEUGER, Basel, Switzerland, assignor to the Firm of J. R. Geigy S. A., Basel, Switzerland. Original application filed Feb. 4, 1927, Serial No. 166,021, and in Germany Feb. 13, 1926. Divided and this application filed Dec. 28, 1927. Serial No. 243,210. 2 Claims. (Cl. 260—29.)

2. As a new article of manufacture, the herein described dyestuff of the phenonaphthosafranine series of the constitution:



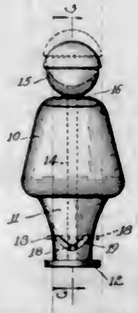
constituting a crystalline body, dissolving to a green solution in sulphuric acid and dyeing wool reddish blue tints of good equalizing power and improved fastness to light and alkali.

1,683,560. PROCESS FOR THE PRODUCTION OF PHOTOGRAPHIC PLATES, FILMS, AND THE LIKE FOR INDIRECT THREE-COLOR PHOTOGRAPHY. ERNST AUGUST LAGE, Wandsbek, near Hamburg, Germany. Filed Mar. 13, 1926, Serial No. 94,595, and in Germany Oct. 23, 1925. 2 Claims. (Cl. 95—2.)



1. Process for the production of photographic tri-packs for indirect three-color photography, consisting in that a light-sensitive film provided with the coating of emulsion suitable for the red partial image is squeegeed on to a support provided with a coating of emulsion suitable for the blue partial image, after which a suitable coating of emulsion for the yellow partial image is poured on to the squeegeed film.

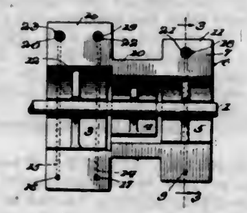
1,683,561. DOLL. RUSSELL C. LETSON, Los Angeles, Calif. Filed Jan. 9, 1924. Serial No. 685,138. 2 Claims. (Cl. 46—40.)



2. A toy doll, comprising a body portion, a bore longitudinally of the body portion, a shaft mounted normally freely rotatable in the bore, a head secured to the upper end of the shaft and adapted to normally rest adjacent the upper end of the body portion, a cam surface in connection with the body portion, inclined relative to the longitudinal axis of the body portion, and means in connection with the shaft, adapted to engage said cam surface, whereby the shaft and head thereon will be moved longitudinally of the body portion upon relative rotation of the two.

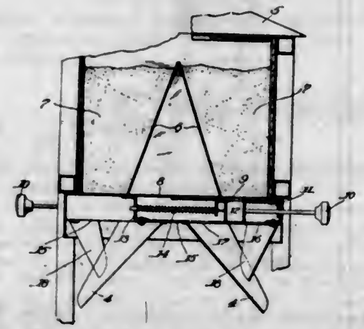
1,683,562. PULLEY ATTACHMENT. CHARLES MACKERT, St. Anthony, Idaho. Filed Dec. 12, 1925. Serial No. 75,146. 1 Claim. (Cl. 64—17.)

A sleeve covering for pulleys comprising a plurality of segmental sections, adjustable means connecting said sections in series on the periphery of a pulley and operable to clamp said sections to the periphery of said pulley, said



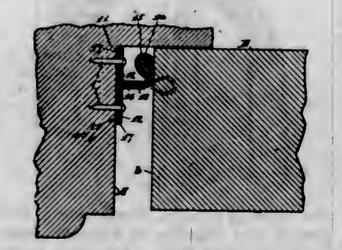
sections being formed so that the sleeve covering which is comprised by the sections will consist of a plurality of portions having different outer diameters.

1,683,563. VENDING MACHINE. ABRAHAM MILBERG, Chicago, Ill. Filed Aug. 26, 1926. Serial No. 131,691. 1 Claim. (Cl. 221—104.)



A sheet metal dispensing machine comprising a container having a bottom provided with a discharge opening, a floor arranged directly under and parallel to said bottom and having dispensing openings displaced laterally on opposite sides of said discharge opening, a plunger slidable between said bottom and floor and having an open ended casing extending therethrough adapted to register with the first named opening and one of the second named openings only, yielding means for holding said plunger with its casing normally in registry with the first named opening, the rear edge of said casing contacting with said floor during movement of the plunger to normal position to scrape excess material from said floor into the other of said dispensing openings.

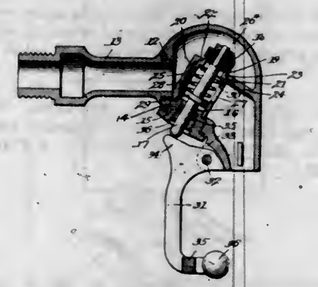
1,683,564. WEATHER STRIP. AUGUSTUS MILLER, East Orange, N. J. Filed Apr. 19, 1927. Serial No. 184,998. 1 Claim. (Cl. 20—69.)



A weatherstrip comprising a base of stiff material presenting a bottom, clamp members integral with the bottom and turned inwardly toward each other overlying the base, and terminal clamp members directed laterally outward

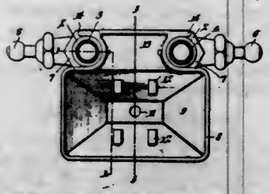
perpendicular to the base and substantially parallel with each other, the inwardly directed members being spaced from the bottom of the base and the terminal clamp members being spaced from each other; together with a weatherstrip of flexible material presenting sides which extend between the terminal clamp members and then laterally outward between the bottom of the base and said inwardly turned members, and a core, wrapped about which is the material of said flexible weatherstrip, the said terminal clamp members of the stiff material integral with the base terminating along a line of the flexible weatherstrip to hold the said weatherstrip closely wrapped about the said core to hold the same tightly within the material of the weatherstrip.

1,683,565. RECEPTACLE-ACTUATED FAUCET. WILLIAM J. MIX, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 17, 1925. Serial No. 63,094. 14 Claims. (Cl. 251—116.)



1. A faucet comprising a substantially spherical body portion forming a valve chamber having unbroken top, front and side surfaces, a nozzle leading therefrom, said body portion having a valve therein for controlling the egress of fluid through said nozzle, a valve stem projecting through an opening in the wall of said body portion, and means permitting withdrawal of said valve and stem through said opening, said means comprising a valve seat removably mounted in said casing, and removable means in said opening serving to retain the seat and valve in the body portion.

1,683,566. SOAP DISH. WILLIAM J. MIX, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Nov. 20, 1925. Serial No. 70,379. 3 Claims. (Cl. 45—28.)

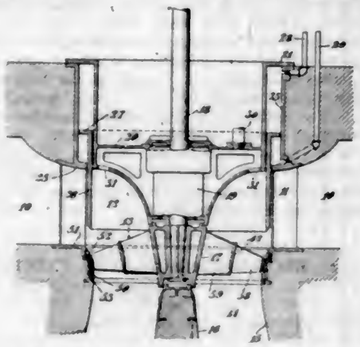


1. A soap dish comprising a tray-like body having at its rear a portion adapted to extend between the supply pipe couplings of a double faucet and provided at opposite sides with means to loosely engage said couplings to support the tray in front of said couplings and hold it from lateral movement.

1,683,567. HYDRAULIC TURBINE. LEWIS FERRY MOODY, Philadelphia, Pa. Original application filed June 25, 1924, Serial No. 722,228. Divided and this application filed Nov. 24, 1925. Serial No. 71,074. 28 Claims. (Cl. 253—151.)

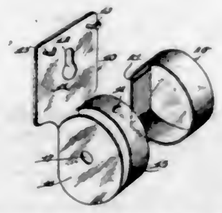
1. In combination with a hydraulic turbine having an intake and discharge, of a propeller type runner comprising an inner series of vanes, a partition ring connecting the

ends of said vanes, and an outer series of unshrouded vanes extending outwardly from said partition ring, the outer



portion of said unshrouded vanes being more nearly horizontal than vertical and the outer series of vanes being greater in number than the inner series of vanes.

1,683,568. WINDOW-CURTAIN FITTING. VIRGIL H. MOODY and CURTIS W. KEMPTON, Glouster, Ohio. Filed Oct. 13, 1927. Serial No. 225,937. 3 Claims. (Cl. 156—29.)

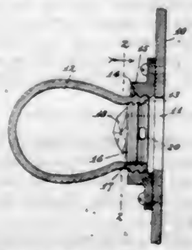


2. A bracket for supporting a shade receiving tubular casing comprising an attaching plate with a depending curved strip carried thereby, a cap for encircling said strip and having a slot extending transversely therethrough to adapt the cap to straddle the attaching plate, the cap and the strip being adapted to receive between them one end of the tubular casing, and means carried by the brackets to receive a plate of the shade roller.

1,683,569. SELECTIVE FLOTATION OF MINERALS. BAYARD S. MORROW and ERNEST KLEPETKO, Anaconda, Mont. Filed Oct. 21, 1925. Serial No. 63,992. 3 Claims. (Cl. 252—9.)

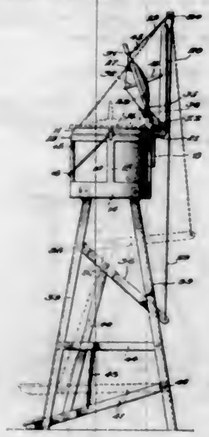
1. As a flotation agent a solution comprising cresylic acid and thio-carbanilid.

1,683,570. INTERCHANGEABLE SIGN ELEMENT. LOUIS N. MOSS, Cedarhurst, N. Y. Filed Nov. 2, 1926. Serial No. 145,880. 3 Claims. (Cl. 240—106.)



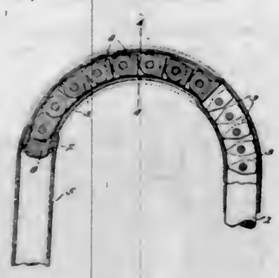
1. In a sign including an apertured base, convertible and interchangeable elements adapted to be respectively illuminated by penetration and flood lighting, said elements including a transparent bulb, interengageable means on the bulb and sign base for connecting the bulb to the base in alignment with the aperture and interengageable means within the open end of the bulb and on a plurality of respectively transparent and reflective plugs to interchangeably connect the plugs within the bulbs whereby to render the bulbs convertible for flood lighting or penetration illumination.

1,683,571. GASOLINE BUCKET. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 18, 1924. Serial No. 744,514. 10 Claims. (Cl. 220—89.)



1. The combination of a container, a closure therefor, means to maintain the closure in open position including a member extending through an opening in the closure whereby it will not be positioned between the closure and the edge of the opening controlled thereby when the closure is operative, said member including a combustible section extending over a portion of the inner face of the closure, for the purpose described.

1,683,572. PIPE-BENDING MANDREL. PHILIP MUELLER, Decatur, and ANTON C. SCHUERMANN, deceased, Decatur, Ill., by Helena Schuermann, executrix, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 17, 1925. Serial No. 63,186. 5 Claims. (Cl. 153—63.)



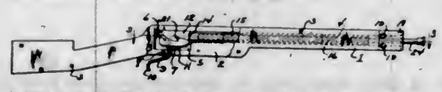
1. A tube bending mandrel comprising a flexible body section, formed of a plurality of pivotally connected elements, a terminal head having the cross sectional form and transverse dimensions of the bore of the tube to be bent, and a flexible connection between the head and body section of a diameter less than those of the members connected by it.

1,683,573. PIPE-BENDING MANDREL OR PUNCH. PHILIP MUELLER, Decatur, and ANTON C. SCHUERMANN, deceased, Decatur, Ill., by Helena Schuermann, executrix, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 17, 1925. Serial No. 63,187. 9 Claims. (Cl. 153—63.)



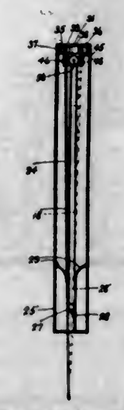
1. A tube bending mandrel comprising a rigid stem, a flexible core formed by a series of members detachably united end to end by a headed projection on each member engaging a socket in the next member of the series and permitting relative lateral movement between said members, one of the terminal members of said series being connected to the stem, a series of substantially spherical, tubular, members fitted over said core and each having a recess receiving a portion of the next section, and means connected to the other terminal member of the core for retaining the core members in engagement and said tubular members in nested engaging relation.

1,683,574. ARROW-SHOOTING GUN. JOSEPH R. MURPHY, Shelbyville, Tenn. Filed Dec. 22, 1926. Serial No. 156,351. 1 Claim. (Cl. 124—14.)



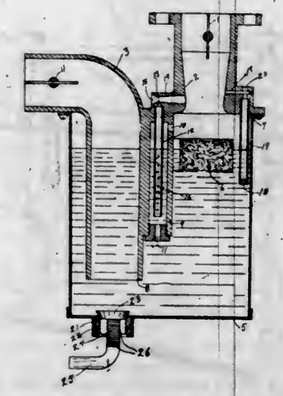
A toy gun of the character described comprising a pair of like sections, formed with recesses to provide a bore and a chamber, a trigger pivotally mounted in said chamber, a trigger arm extending therefrom and passing through an opening formed in the sections, a plunger mounted for slidable movement in said bore and being formed with a shoulder to be received by the trigger for holding the plunger in operative position, an elastic strip passing through said plunger, a bored block arranged in the bore of the sections and securing the end portions of the strip therein, and a projectile adapted to be arranged in a bore formed in the plunger for putting the elastic strip under tension and securing the plunger to the trigger, clamping means for retaining the bored block in operative position and being formed with an opening for the passage of said projectile, and screws cooperating with said clamping means for holding the sections together.

1,683,575. STREET AND STATION INDICATOR. KENNETH O'BRIEN, Calpine, Calif. Filed Dec. 14, 1925. Serial No. 75,415. 2 Claims. (Cl. 40—43.)



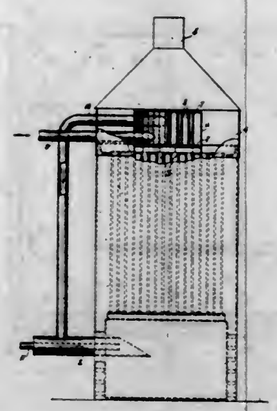
1. In a device of the class described, an endless travelling element, an upper roller mounting said element, a lower gravity element for retaining the lower portion of the element first named, a vertical shaft, a worm carried thereby, a worm wheel engaged by the worm, means for driving the upper roller from the worm wheel, a frame including a plurality of U-shaped portions, a bearing box for the shaft, and means for moving the box manually, in order to shift the position of the worm from one side of the worm wheel to the other side thereof and from one of U-shaped portions to the other, these U-elements acting as box retaining means.

1,683,576. CARBURETOR. JOSEPH C. COULOMBE, Kokomo, Ind. Filed Sept. 5, 1922. Serial No. 586,370. 3 Claims. (Cl. 261—121.)



1. In a carburetor for internal combustion motors having a constant level float chamber, an air outlet for same, a main air intake for said carburetor extending below the fuel level in said float chamber, said air intake being proportioned and located so as to permit a subatmospheric pressure in said float chamber during the operation of said motor, means for injecting fuel from said float chamber into said air outlet, said means comprising a small venturi connecting said air outlet with the atmosphere, and a tube leading from the throat of said small venturi to the fuel in said float chamber.

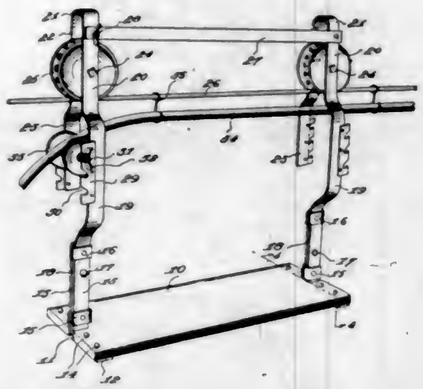
1,683,577. RECUPERATOR. ROBERT C. HOPKINS, Alliance, Ohio. Filed Nov. 21, 1925. Serial No. 70,546. 4 Claims. (Cl. 110—56.)



1. In combination with a boiler having tubes, a fire box at one end of the tubes and a smoke box at the other end of the tubes, a burner in the fire box, a recuperator

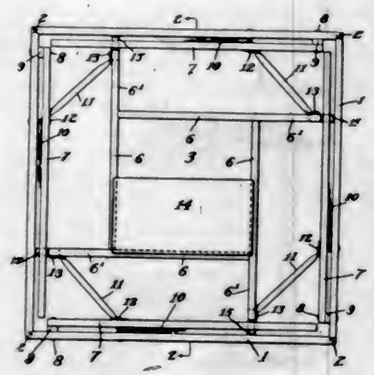
drum in the smoke box in proximity with the tubes, said drum having tubes in alignment with the boiler tubes, and means including inlet and outlet pipes tangentially connected with the recuperator drum for passing an air blast through the recuperator drum to the burner.

1,683,578. CABLE CAR. CURT E. MOBIUS, Brooklyn, and WALTER N. ENGLER, New York, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Oct. 21, 1927. Serial No. 227,776. 6 Claims. Cl. 105—150.)



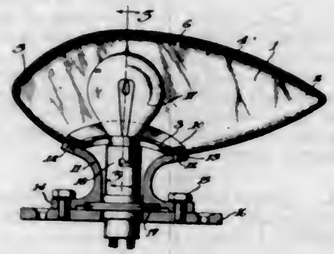
1. A lineman's chair comprising a seat, brackets positioned at opposite ends of said seat, hangers pivoted to said brackets and foldable over said seat, and rollers carried by said hangers and adapted to engage a messenger wire.

1,683,579. FOLDING TABLE. NELSON L. B. PAGE and JOHN C. EMERSON, Auburn, Me., assignors to N. L. Page & Son Co., Auburn, Me., a Corporation of Maine. Filed Mar. 7, 1927. Serial No. 173,280. 7 Claims. (Cl. 45—11.)



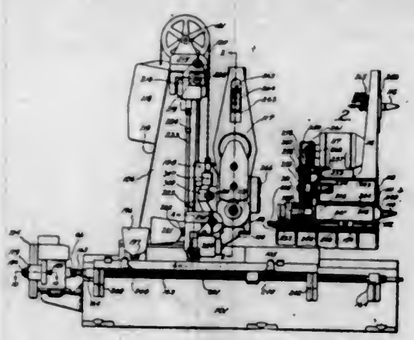
7. A table comprising a top, enclosing frame rails therefor, a quadrilateral truss frame for said top having its truss units extending towards but terminating short of the frame rails, table legs pivoted to said frame rails, and rigid braces for said legs, each brace pivoted at one end to a leg and at its opposite end pivoted to the end of the truss unit opposite said leg, the pivotal connection of the brace with the truss unit being substantially in line with the pivotal connection of the leg with its frame rail.

1,683,580. AEROPLANE LAMP. CHARLES D. RYDER, Covington, Ky., assignor to The Cincinnati Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 18, 1925. Serial No. 16,546. 3 Claims. (Cl. 240—1.)



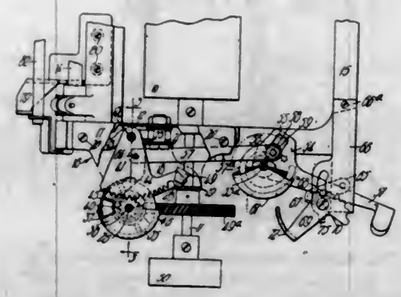
1. A lamp, comprising, an elongated two-piece globe of translucent material, a base therefor, a flange on said base shaped to correspond to the curvature of the globe and to fit about an aperture in the globe side, a ring mounted on the inside of the globe and lying around the margin of the aperture, said ring formed to correspond to the shape of the base flange and nesting therein with the material of the globe clamped between the base flange and the ring, and a light source mounted within the base and extending upwardly through the aperture into the globe at right angles to the longitudinal axis of the globe.

1,683,581. ELECTRICAL OPERATION AND CONTROL OF MACHINE TOOLS. JOHN C. SHAW, Brooklyn, N. Y., assignor to Keller Mechanical Engineering Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 4, 1924. Serial No. 696,827. 39 Claims. (Cl. 90—13.5.)



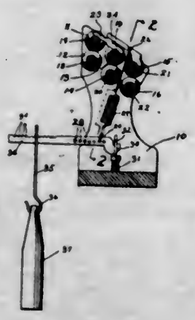
1. In a machine of the character described, the combination with a slide and lead screw for moving the same, of motor driven magnetic clutches for operating said screw for motion in either direction, dogs for limiting said motion, a reversing contactor adapted to be actuated by said dogs and a reversing switch actuated by said contactor for reversing the operation by said magnetic clutches, thereby reversing the drive of the screw.

1,683,582. TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 7, 1925. Serial No. 41,933. 36 Claims. (Cl. 197—114.)



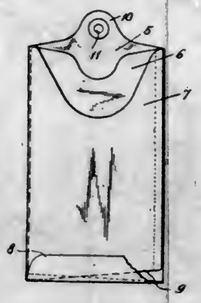
1. A typewriting machine including a revoluble platen, a line-space lever having a fixed fulcrum, a slide movable upon said lever towards and away from the fulcrum of the lever and connected to the platen, to drive the same in line-spacing and means rotatably mounted upon the fulcrum of the line-space lever to adjust the slide microscopically to secure microscopic variations in the extent of the line-space unit of rotation of the platen for the same extent of vibration of the lever.

1,683,583. PRESSURE MECHANISM FOR ROLL STANDS. WILLIAM A. CARPENTER, Hartsville, S. C., assignor of one-half to C. H. Campbell, Hartsville, S. C. Filed May 18, 1927. Serial No. 192,319. 8 Claims. (Cl. 19—136.)



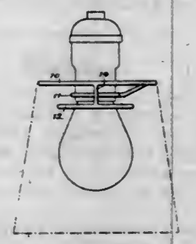
1. A pressure regulating mechanism for drawing rolls and the like, comprising equalizing levers bearing on the rolls, a member engaging the upper equalizing lever and extending downward between the rolls, a section of the said member being in the form of a coiled spring, a hook on the lower end of the member, a lever pivoted to the main frame of the roll stand, a vertically adjustable fulcrum point for said lever, a plurality of holes in the said lever adapted to receive the hooked lower end of the said member, a plurality of notches in the upper edge of the said lever, and a weight adapted to be adjustably secured in any one of the notches.

1,683,584. ENVELOPE. GEORGE FRANCIS HOGAN, Chicago, Ill. Filed Sept. 27, 1927. Serial No. 222,230. 3 Claims. (Cl. 229—56.)



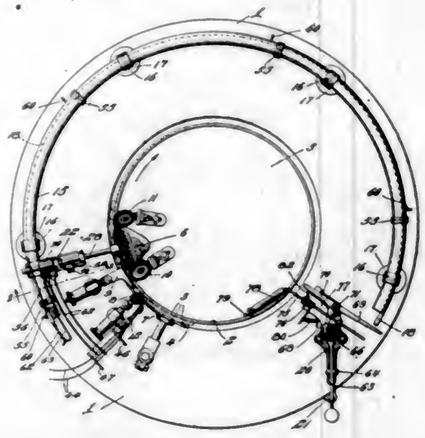
1. An envelope having two separate pockets formed by a rear wall and intermediate and front walls consisting of overlapping lateral flaps each substantially the width of the rear wall, the free lateral edge of the intermediate wall being unattached to the other walls, the free lateral edge of the front wall being gummed at the lateral edge of the envelope and a flap closing the bottom of the envelope, the lower edge of the front wall being cut away to expose a portion of the intermediate wall to the bottom-closing flap and the bottom-closing flap being gummed to both the front and intermediate walls.

1,683,585. LAMP-SHADE FRAME. ALEX LUSTIG, New York, N. Y., assignor to Idealite Electric Lamp Shade Mfg. Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 4, 1927. Serial No. 180,827. 2 Claims. (Cl. 240—108.)



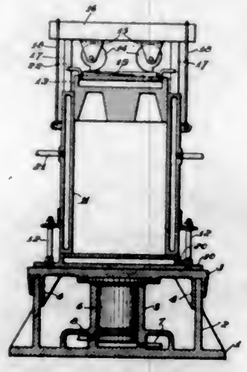
1. A lamp shade frame for use with a lamp bulb and its socket, said frame comprising a shade supporting member, a substantially circular clamping member connected with the shade supporting member for connecting the frame with the socket to hold the frame associated with the lamp bulb whether the lamp bulb is in a depending or upright position, and a second substantially circular member connected with the shade supporting member adapted to support the frame from the lamp bulb in association therewith when the lamp bulb is in an upright position.

1,683,586. KNITTING MACHINE. JOHN F. MALONEY, Woonsocket, R. I.; Mary M. Maloney administratrix of said John F. Maloney, deceased. Filed Jan. 3, 1927. Serial No. 158,486. 12 Claims. (Cl. 66—99.)



12. An attachment for circular knitting machines comprising a rotatable pivotally mounted shaft, a wheel carried by said shaft and normally contacting with the knitted fabric to rotate said shaft, a ratchet wheel carried by said shaft, a thread contacting means provided with a pawl adapted to engage the ratchet upon breakage of the thread, means for moving the shaft about its pivot upon rotation of the shaft after engagement of the pawl with said ratchet, a stop mechanism, a slide for actuating said stop mechanism, and means for moving said slide to actuate the stop mechanism upon movement of said shaft about its pivot.

1,683,587. CARBON ELECTRODE AND METHOD OF MOLDING THE SAME. VICTOR C. DOERSCHUK, Massena, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 19, 1927. Serial No. 206,922. 12 Claims. (Cl. 18—47.5.)



1. The method of molding into a coherent mass a normally unconsolidated mixture of granular material and a viscous bituminous binder, comprising placing the mixture in a mold, and jarring the mold.

1,683,588. DIRECT PRODUCTION OF RUBBER GOODS FROM RUBBER DISPERSIONS. PAUL KLEIN, Budapest, Hungary, and ALBERT HEALEY, Birmingham, England, assignors to The American Anode Incorporated, New York, a Corporation. Filed Sept. 14, 1927, Serial No. 219,555, and in Great Britain Aug. 4, 1926. 1 Claim. (Cl. 204—1.)

In the manufacture of rubber and the like or articles manufactured therefrom the process which comprises regulating the degree of coagulation by adding soft soap to natural latex in the proportion of 6 to 12 grams of soft soap to 1 litre of latex and depositing the latex by electrophoresis upon an anodic mould.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 374—No. 2. TUESDAY, SEPTEMBER 11, 1928. Price—$10 per year.

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Prints	6—No.	11,206 to No.	11,211, inclusive.
Reissues	6—No.	17,078 to No.	17,083, inclusive.
Designs	60—No.	76,278 to No.	76,337, inclusive.
Patents	780—No.	1,683,589 to No.	1,684,377, inclusive.
Total	1,248		

Interference Notice.

U. S. PATENT OFFICE, *Washington, Aug. 11, 1928.*

Union Baking Company, Incorporated, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Fischer Baking Co., of Rose and Livingston Streets, Newark, N. J., for registration of a trade-mark and trade-mark registered September 16, 1924, No. 189,190, to Union Baking Company, Incorporated, of Fifth and Columbia Streets, Vancouver, Wash., and a notice of such declaration sent by registered mail to said Union Baking Company, Incorporated, at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Union Baking Company, Incorporated, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Changes in Classification.

Order No. 3,078, August 25, 1928, directs:

In *class 148, Metal Treatment* (Division 3), establish the following subclass and definition, the patents contained in this subclass having been taken for the most part from class 148, subclass 6, Solid metal, Coating:

Solid metal
Coating
6.5 Iron.

6.5. SOLID METAL, COATING, IRON. The surface coated contains 50% of iron.

In *class 148, Metal Treatment* (Division 3), change the title of subclass 7, Solid metal, Coating, With heat, to read:

Solid metal
Coating
Iron
7 With heat,

cancel the existing definition, and establish in lieu thereof the following definition:

7. SOLID METAL, COATING, IRON, WITH HEAT. The process involves the application of a considerable degree of heat.

Note.—See this class, subclass 6, for processes of coating with heat as applied to material predominantly nonferrous.

Note.—Compare this class, subclass 16, for mere application of a gas to hot metal, even though a coating may be thereby produced.

Note.—Compare class 29, METAL WORKING, subclass 18, Special work, Sheet metal and foil manufacture, Processes.

Disclaimer.

1,431,772.—*John C. Black*, Destrehan, La. PROCESS AND APPARATUS FOR TREATING HYDROCARBONS TO PRODUCE THOSE OF LOWER BOILING POINTS. Patent dated October 10, 1922. Disclaimer filed August 9, 1928, by the assignee, *Gasoline Products Company, Inc.*

Hereby disclaims claims 1 and 3 of said patent, which read as follows:

"1. In an apparatus of the character described the combination of a furnace, a cracking coil in the furnace, means connected with the cracking coil to maintain the hydrocarbons at cracking temperature, said means also decreasing the rate of flow of the hydrocarbons after leaving the cracking coil, a pipe line connected therewith and having a discharge end, a valve located on the line between the cracking coil and the said discharge end and means to produce sufficient pressure on the hydrocarbons to prevent vaporization thereof while at cracking temperature."

"3. In an apparatus of the character described, the combination of a furnace, a cracking coil in the furnace, a digestor of larger cross sectional area than the cracking coil connected therewith, a fractionating apparatus, a pressure regulating valve between the digestor and fractionating apparatus, and means for supplying hydrocarbons to the coil and digestor under pressure and maintaining a sufficient pressure in the system against the regulating valve to prevent vaporization of the hydrocarbons."

Condition of Applications Under Examination at Close of Business August 31, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 112,189; Trade-Mark Division, 1,664. Oldest new case, Nov. 5, 1927; oldest amended, Nov. 7, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	†Jan. 18	†Jan. 21	1,552
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	†Jan. 16	†Jan. 23	1,681
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Dec. 21	†Jan. 12	1,579
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Nov. 14	Nov. 10	1,623
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Dec. 1	Dec. 2	1,584
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Dec. 6	Dec. 20	2,594
106	7. JARBOE, C. O., Optics; Photography	Nov. 23	Nov. 25	1,959
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	†Jan. 13	†Feb. 6	1,700
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Mar. 12	†Mar. 12	1,685
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Dec. 16	†Jan. 6	1,812
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Feb. 1	†Feb. 1	906
380	12. PIERCE, P. P., Machine Elements	†Jan. 3	†Dec. 29	2,048
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Jan. 20	†Jan. 3	1,452
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Dec. 3	Dec. 1	1,234
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 7	Dec. 23	2,475
242*	16. SPENCER, C. J., Telegraphy; Telephony	†Feb. 10	†Jan. 20	1,176
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Dec. 10	†Jan. 5	1,503
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 12	Dec. 13	1,620
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	†Jan. 6	Dec. 23	1,933
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Mar. 7	†Mar. 9	1,491
212	21. THURBUR, W. L., Textiles; Cloth Finishing	Dec. 22	†Jan. 7	1,071
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Dec. 5	Dec. 16	1,622
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Nov. 7	Nov. 19	1,132
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 11	Dec. 9	1,468
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 23	†Feb. 13	1,675
238*	26. HODGES, J. S., Electricity, Generation: Motive Power	Dec. 8	Dec. 7	1,226
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Jan. 28	†Jan. 31	1,432
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 30	Nov. 30	2,024
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Dec. 27	Dec. 13	1,176
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 3	†Feb. 8	1,469
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Dec. 29	Dec. 17	2,194
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Dec. 5	Dec. 5	2,237
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Mar. 21	†Mar. 21	1,926
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Nov. 11	Nov. 18	1,473
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	†Feb. 29	†Mar. 22	1,716
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Feb. 13	†Feb. 2	2,030
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 5	†Jan. 14	2,192
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Feb. 6	†Jan. 31	1,849
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 8	Nov. 14	1,914
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Dec. 10	Dec. 5	2,683
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	†Jan. 4	†Jan. 30	1,476
223*	42. CUTTING, H. O., Electric Signaling	Dec. 5	Dec. 29	1,667
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	†Jan. 3	†Feb. 1	2,158
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	†Jan. 1	†Jan. 3	2,118
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Nov. 17	Dec. 9	2,467
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Nov. 19	Nov. 19	1,889
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	†Jan. 3	†Jan. 4	2,033
212*	48. ROEPKE, O. B., Electricity, General Applications	†Jan. 6	†Jan. 9	1,583
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Nov. 30	†Jan. 14	1,523
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	†Jan. 6	†Jan. 6	2,557
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Dec. 22	Dec. 14	2,289
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	†Jan. 10	†Jan. 7	2,172
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Dec. 27	†Jan. 4	1,793
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Dec. 12	Dec. 12	2,387
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Dec. 5	Dec. 5	920
	{Designs			
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	†July 9	†July 21	750
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Nov. 8	Nov. 7	2,632
270*	58. DOWELL, E. F., Abrading; Typewriting	Dec. 29	†Jan. 19	1,186
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	Nov. 8	Nov. 21	1,446
213*	60. GLASS, R. L., Electricity; Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Nov. 25	Nov. 25	2,454
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Nov. 19	Dec. 8	1,640
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	Nov. 7	Nov. 19	2,158
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND {Trade Marks	Dec. 1	Dec. 9	2,682
	{Labels and Prints	†Aug. 4	†Aug. 17	1,439
		†Aug. 4	†Aug. 16	225

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decision.

EX PARTE STODDARD.

Decided August 24, 1928.

APPLICATION—RENEWAL—FEE.

Where an application is renewed and the petition for renewal is accompanied by an amendment containing additional claims, the claims standing allowed in the case plus the additional claims constitute the claims in the application, and an additional fee of one dollar will be required for each claim in excess of 20.

ON PETITION.

Application for patent filed May 14, 1923, renewed July 28, 1928, Serial No. 638,728.

NOTE-SHEET DRIVE FOR PLAYER PIANOS.

Messrs. Emery, Booth, Janney & Varney for the applicant.

ROBERTSON, *Commissioner:*

Applicant petitions that this application be renewed without the payment of the additional fee for the claims in excess of 20.

The application contains 18 allowed claims, and the petition for renewal is accompanied by 38 additional claims, making 56 in all, which requires a renewal fee of $56.

Petitioner contends that there is no statutory authority for the requirement and asks that the application be renewed for the $20 filed with the petition.

The petition sets forth various ways in which the payment of the additional fee could have been evaded. That, however, is a moot question and need not be considered. The only question to be decided is whether the application as presented requires the payment of the additional fee.

Section 4897 of the Revised Statutes, which makes provisions for renewed applications, makes no distinction between original applications and renewed applications, as is apparent from the language "to make an application for a patent for such invention or discovery the same as in the case of an original application."

The proper construction is believed to be that the term "original" in the statute is used only in contradistinction to reissue application, and that the so-called renewal application is the "application" or the "second application" referred to in section 4897, Revised Statutes, and therefore the filing of such "second" application must necessarily be governed as to its fees by the statute which refers to original applications. (*Ex parte Parks and Miller*, 361 O. G., 891, 1927 C. D., 57–59.)

The application in the present case when presented for renewal contained the 18 allowed claims, an amendment with 38 claims, a petition for renewal, and a fee of $20.00, all of which, together with the original file, constitutes the "second application" within the terms of section 4897, Revised Statutes. Obviously this second application contains 56 claims and under section 4934, Revised Statutes, requires a fee of $56 as a prerequisite to the granting of a valid patent. The fees are fixed by the statutes, and the Commissioner has no discretion in the matter. (*Child* v. *Adams*, 1 Fisher 189, Fed. Cas. No. 2073.)

It may be noted that in the case cited the patent was held invalid, the correct fee not having been paid.

The petition is denied.

Court of Appeals of the District of Columbia.

LINCOLN MOTOR COMPANY *v.* LINCOLN MANUFACTURING COMPANY.

No. 1,973. Decided May 7, 1928.

TRADE-MARKS—GOODS OF THE SAME DESCRIPTIVE PROPERTIES—BRAKES AND TIMERS AND AUTOMOBILES.

Brakes and timers intended for use on automobiles *Held* to be of the same descriptive properties as automobiles.

APPEAL from the Commissioner of Patents. Reversed.

Mr. C. R. Halbert, Mr. C. M. Thomas, Mr. F. D. Thomas, and *Mr. E. S. Rogers* for Lincoln Motor Co.

Mr. G. B. Schley and *Mr. Robert Watson* for Lincoln Manufacturing Company.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

This appeal is from the decision of the Commissioner of Patents dismissing an opposition brought by appellant, Lincoln Motor Company, against the registration of a trade-mark by appellee, Lincoln Manufacturing Company.

The marks of the respective parties consist of the word "Lincoln," with certain embellishments. The mark of appellant company is applied to automobiles known as the Lincoln car, and has been in use since 1920. The mark of appellee company was applied to brakes and timers, manufactured for and used in various cars. It was held by the tribunals of the Patent Office that while the marks were deceptively similar their use was not such as to lead to confusion, and the opposition was accordingly dismissed.

The case has taken a turn where we think it unnecessary to enter into any prolonged discussion as to the respective marks. Since the appeal to this court was taken, an agreement has been entered into between the contending parties whereby appellee company has discontinued and abandoned the use of the name "Lincoln" as a trade-mark for automobile parts, and adopted in its place the word "Limaco," for which appellee company has applied for registration and has not been opposed by appellant.

We are of opinion that the tribunals of the Patent Office were in error in not sustaining the opposition, since the marks are not only deceptively similar but were applied to goods of the same descriptive properties, to an extent that would inevitably lead to confusion.

In order that the record may be cleared and appellant company be permitted to use its mark un-

encumbered by anything arising out of this proceeding, the decision of the Commissioner should be reversed with directions to enter an order sustaining the opposition.

Inasmuch as that portion of the record which was brought into this court by certiorari was unnecessary in the determination of the case, the costs of the same are assessed against the appellee.

The decision of the Commissioner is reversed.

Court of Appeals of the District of Columbia.

IN RE MOULTON.

No. 2,002. Decided March 5, 1928.

PATENTABILITY—LIGHT PROJECTOR.

Claims for a light projector, including an elliptic paraboloidal reflector, with a light source arranged adjacent to one of the foci of said reflector, *Held* unpatentable in view of the prior art.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. J. T. Bassecches for Moulton.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

VAN ORSDEL, *J.*:

This appeal is from a decision of the Commissioner of Patents denying appellant's application for a patent for an invention relating to light projectors for vehicle headlights. The application is set forth in 17 claims, of which the following are illustrative:

1. The method of treating light from a source which includes the step of reflecting all the rays from the source in the form of a beam diverging substantially in one plane only.

4. A light projector comprising, in combination, a cup-shaped reflector, a mirror and a source of light disposed therebetween including an incandescent filament arranged symmetrically transversely of the axis of the reflector.

9. A light projector comprising, in combination, an elliptic paraboloidal reflector having three axes, a mirror having the form of a sector of a sphere, and a source of light arranged adjacent to one of the foci of said reflector, including an incandescent filament arranged transversely of the major axis of the reflector and adjacent to the vertex of a cone formed by lines tangent to perimeters of said reflector and mirror.

The object of the invention is to provide for the reflection of rays of light through a projector in such a manner as to eliminate the glare and diffuse the rays horizontally for the better illumination of the roadway. The accomplishment of this object is clearly described in the opinion of the Commissioner as follows:

In order to accomplish this there is provided a primary reflector, which is in the form of an elliptic paraboloid, that is to say, a cross-section of the reflector is substantially an ellipse the major axis of which is in a horizontal plane. The purpose of having the width of the opening of the reflector greater than its height is in order that the light may be diffused in a horizontal but not in a vertical plane. There is further provided a secondary reflector, placed in front of the source of light, of such size and so arranged that the light falling thereon will be reflected to the primary reflector and reflected outwardly from the latter.

In the opinions of the tribunals below certain references to existing patents are cited, which, it is held, anticipate fully appellant's application; and while, as suggested by the Commissioner, the references cited do not show the projector as described in the application, they do reveal the principles involved in the reflection of light to avoid the glare and improper diffusion. As said by the Commissioner in respect of the references relied upon—

both Kleinert and the British patent to Evans show a secondary reflector arranged directly in front of the source of light, whereby all the light is reflected. In the Kleinert device the primary reflector is the usual paraboloidal reflector and in the Evans patent the primary reflector is made with the portion directly opposite the secondary reflector spherical and the outer part of the reflector a paraboloid of revolution.

We have considered the record and the references cited, as well as the able opinions of the three tribunals of the Patent Office, and are of opinion that the rejection of the application should be sustained.

The decision of the Commissioner of Patents is affirmed.

Court of Appeals of the District of Columbia.

VICTOR STOVE COMPANY *v.* HALL-NEAL FURNACE COMPANY.

No. 2,007. Decided March 5, 1928.

TRADE-MARKS—RIGHT OF REGISTRATION—LACHES.

Where the V. Co., which had adopted and used a certain mark on stoves and ranges, did not for more than 20 years use that mark on furnaces and during that period the H. Co. had used the mark on furnaces and no confusion had been shown as to the authorship of the respective goods, *Held* that by its acquiescence in such use the V. Co. had lost its right to register the mark for furnaces.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. L. B. Kemon for Victor Stove Co.

Mr. E. W. Bradford for Hall-Neal Furnace Co.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

MARTIN, *C. J.*:

This is a trade-mark interference proceeding relating to the use of the word "Victor" as a trade-mark for furnaces.

On May 22, 1923, the Hall-Neal Furnace Company was granted registration of the word "Victor" as a trade-mark for coal, wood, gas and oil heating furnaces, and furnace parts. On March 1, 1924, the Victor Stove Company filed an application for the registration of the same word as a trade-mark for wood, coal and gas stoves and ranges and furnaces. Testimony was taken by both parties.

The Examiner of Interferences found on the evidence that the Victor Company had used the word as a trade-mark for stoves and ranges since the year 1887, but not for furnaces until the year 1923; and that the Hall-Neal Company had not used the word as a trade-mark for furnaces prior to 1895. The Examiner held that stoves and ranges were goods of the same descriptive properties as furnaces, and that the Victor Company, being senior in use of the mark, should prevail in the interference and was entitled to the registration of the mark for furnaces, as applied for by it.

Upon appeal the Commissioner of Patents found that the Hall-Neal Company had been in undisputed possession of the right to use the word "Victor" as its trade-mark for hot-air furnaces from about 1895 to 1923; that the Victor Company during that period did not use the word as a trade-mark for furnaces, and that for many years the two companies sold their respective goods in substantially the same territory, each using the word "Victor" as its trade-mark without a single instance of confusion in the mind of the public as to the authorship or ownership of the respective goods; and that under these circumstances the Victor Company would be barred by reason of laches from the use of the word as a trade-mark for furnaces. The Commissioner therefore reversed the decision of the Examiner; and the present appeal followed.

In our opinion the decision of the Commissioner is right. For many years the Victor Company practically acquiesced in the exclusive use of the mark by the Hall-Neal Company for furnaces, during which time the latter company built up a market, together with a good will, for its furnaces under the trade-mark "Victor." If the Victor Company now should be given the exclusive right to use the trade-mark for furnaces, it would in large part appropriate to itself the good will which to its knowledge and without its objection the Hall-Neal Company built up for its products. Such a result would be plainly inequitable. In *France Milling Co.* v. *Washburn-Crosby Co.*, 7 Fed. (2nd) 304, it is held—

Manufacturer of flour under Gold-Metal trade-mark, who for many years acquiesced in use of same mark by manufacturer of pancake and buckwheat flour, and sold latter raw flour for use in manufacture, *Held* to have lost by laches all right to enjoin such use of mark.

We agree accordingly with the conclusion of the Commissioner that,

In view of the above it is believed that the status quo of the parties as it existed for many years should not be disturbed, and that the Victor Stove Company should be denied the right to register the trade-mark "Victor" for furnaces.

The decision of the Commissioner of Patents is affirmed.

VICTOR STOVE COMPANY *v.* HALL-NEAL FURNACE COMPANY.

No. 2,008. Decided March 5, 1928.

MARTIN, *C. J.*:

This is an appeal from a decision denying an application filed by the Victor Stove Company, for the cancellation of the trade-mark registration of the word "Victor," issued May 22, 1923, to the Hall-Neal Furnace Company, for domestic heating furnaces.

The application for cancellation herein involved raises the same question as that decided by this court concurrently herewith in appeal No. 2,007, *Victor Stove Company* v. *Hall-Neal Furnace Company*, 374 O. G. 251. Consistently with the court's decision in that case the decision of the Commissioner of Patents herein appealed from is affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

970,672, 1,147,288, W. H. Whittier, Refrigerator lining. C. C. A., 6th Cir., Doc. 4971, *Grand Rapids Refrigerator Co.* v. *P. E. Stevens et al.* Claims 7 and 8 of 970,672 held invalid; claims 1, 2, and 4 of 1,147,288 held not infringed, June 30, 1928.

1,012,820, C. B. Cory, Golf game; 1,391,306, R. Eliaser, same; 1,573,415, Mendes & Lanners, same, filed May 28, 1928, D. C., N. D. Ill., E. Div., Doc. 8296, *Chester Pollard Amusement Co., Inc.*, v. *Popular Games, Inc., et al.*

1,047,185, V. E. Edwards, Metal-cutting shears, filed July 6, 1928, D. C., E. D. Mich., S. Div., Doc. 2805, *Morgan Construction Co.* v. *Reynolds Spring Co.*

1,125,476, G. Claude, System of illuminating by luminescent tubes; 1,191,495, G. Claude, Method for separating neon from gases with which it is mixed, filed June 25, 1928, D. C., S. D. Calif., S. Div., Doc. E N-116-H, *Electrical Products Corp.* v. *Tubalite Corp. et al.*

1,135,391, C. A. Petersen, Shock absorber, filed July 7, 1928, D. C., N. D. Ohio, E. Div., Doc. 2615, *Pre-Loading Prevention Devices, Inc.*, v. *Gabriel Snubber Mfg. Co.*

1,139,427, 1,140,354, R. B. Llopart, Inalterable white product, C. C. A., 8th Cir. (St. Louis), Doc. 7947, *C. P. De Lore* v. *St. Louis Lithopone Co.* Affirmed May 29, 1928.

1,140,354. (See 1,139,427.)

1,147,288. (See 970,672.)

1,148,767, J. F. Gail, Link-forming machine, filed July 2, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2343, *Simmons Co.* v. *The Vincent-McCall Co.*

1,162,479, A. H. Harris, Method of manufacturing tires; 1,374,505, E. Hopkinson, Method of making motor-vehicle tires; 1,480,719, J. R. Gammeter, Method and apparatus for making or manipulating tires; 1,507,563, A. O. Abbott, jr., Method and apparatus for manufacturing tire casings, filed June 25, 1928, D. C., N. D. Ohio, E. Div., Doc. 2607, *U. S. Rubber Co. et al.* v. *The Firestone Tire & Rubber Co.*

1,176,518, J. T. Burns, Self-propelling hose nozzle, filed June 19, 1928, D. C., S. D. Ind. (Indianapolis), Doc. 1150, *S. Sladden et al.* v. *M. S. Scott (Safety Signal & Supply Co.)*.

1,191,495. (See 1,125,476.)

1,198,326, J. Carey, Printed matter, filed July 6, 1928, D. C., S. D. N. Y., Doc. E 46/5, *Gilman Fanfold Corp., Ltd., et al.* v. *American Fanform Co. et al.*

1,255,084, W. W. Dean, Switch; 1,256,210, same, Electric switch; 1,295,914, R. H. Manson, Circuit controller; 1,607,272, R. B. Benjamin, Switch, D. C. Del. (Wilmington), Doc. E 638, *Benjamin Electric Mfg. Co.* v. *General Motors Corp.* Dismissed upon stipulation June 13, 1928.

1,256,210. (See 1,255,084.)

1,295,914. (See 1,255,084.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C., S. D. N. Y., Doc. E 45/281, *The Bassick Mfg. Co.* v. *Brown & Green Ignition Sales Co.* Patents sustained and infringed June 26, 1928. Same, C. C. A., 7th Cir., Doc. 4018, *Larkin Automotive Parts Co.* v. *The Bassick Mfg. Co.* Dismissed June 1, 1928. Same, C. C. A., 6th Cir., Doc. 4997, *The Bassick Mfg. Co.* v. *Lyman Mfg. Co. et al.* Claim 7 held infringed June 30, 1928.

1,307,734. (See 1,307,733.)

1,310,698, H. Hill, Paper or similar cup, filed July 9, 1928, D. C., S. D. N. Y., Doc. E 46/9, *Tulip Cup Corp. et al.* v. *Milwaukee Lace Paper Co.*

1,333,017, 1,458,286, W. A. Gibbs, Trap, C. C. A., 2d Cir., Doc. 9847, *W. A. Gibbs* v. *Triumph Trap Co., Inc.* Affirmed (notice dated June 26, 1928).

1,358,508, C. R. Birdsey, Plaster board, D. C., N. D. Ohio, E. Div., Doc. 1621, *U. S. Gypsum Co.* v. *The American Gypsum Co.* Patent held valid and infringed (notice dated July 11, 1928).

1,360,256, 1,528,178, E. Anderson, Can opener, filed May 18, 1928, D. C., N. D. Ill., E. Div., Doc. 8255, *Stor Can Opener Co.* v. *Simplex Appliance Co. et al.*

1,371,866, T. A. Cromption, jr., Relief valve, filed July 7, 1928, D. C., N. D. Ohio, E. Div., Doc. 2614, *Brooks Engineering Corp.* v. *The Oil Conservation Engineering Co.*

1,374,505. (See 1,162,479.)

1,379,224, O. P. Smith, Dog-racing amusement; 1,507,439, same, Starting cage for racing dogs; 1,507,440, same, Housing for conveyer cars and tracks, D. C., S. D. Ohio, E. Div., Doc. E 485, *H. M. Smith* v. *Springdale Amusement Park, Ltd., et al.* Patent 1,507,439 and claims 1 and 2 of 1,379,224 held valid but not infringed; Patent 1,507,440 held invalid, July 10, 1928.

1,391,306. (See 1,012,820.)

1,407,550, J. Lapp, Method and machine for forming impressions in plastic articles, filed July 6, 1928, D. C., W. D. N. Y., Doc. 1380–H, *Lapp Insulator Co., Inc.*, v. *The Porcelain Insulator Corp.*

1,458,286. (See 1,333,017.)

1,475,306, J. W. McGhee, Drapery hook, D. C., S. D. Calif. (Los Angeles), Doc. E M–27–M, *J. W. McGhee et al.* v. *Le Sage & Co., Inc.* Patent held invalid June 23, 1928; dismissed July 6, 1928.

1,477,383, H. C. Pfister, Arch support, D. C., S. D. Ohio, W. Div., Doc. E 481, *The Scholl Mfg. Co., Inc.*, v. *The Jung Arch Brace Co., Inc.* Held valid but not infringed; dismissed (notice dated July 3, 1928).

1,480,719. (See 1,162,479.)

1,492,737, H. C. Meyer, Game or amusement device, filed July 5, 1928, D. C. R. I. (Providence), Doc. 302, *G. E. Koppe* v. *M. J. Burnstingle* (*The Ideal Dice Shop*).

1,501,704. (See Re. 15,607.)

1,503,510, A. S. Margason, Windshield for closed motor cars; 1,552,332, Miller & Harvey, Air deflector, D. C., S. D. Calif. (Los Angeles), Doc. E N–83–H, *C. Margason* v. *A. C. Lillie* (*Hartford Wind Shield Co.*). Patent held valid and infringed (notice dated June 22, 1928).

1,507,439. (See 1,379,224.)

1,507,440. (See 1,379,224.)

1,507,563. (See 1,162,479.)

1,528,178. (See 1,360,256.)

1,540,691, W. A. Gibbs, Animal trap, C. C. A., 4th Cir., Doc. 2705, *Montgomery Ward & Co., Inc.*, v. *W. A. Gibbs.* Affirmed June 16, 1928.

1,545,207, 1,617,179, 1,617,180, C. G. Smith, Electrical apparatus; 1,617,171, same, Method and apparatus for the rectification of alternating currents; 1,617,172, 1,617,177, same, Production of electrical variations; 1,617,174, same, Electrical apparatus and method; 1,617,178, 1,617,181, V. Bush, Electrical apparatus, filed May 26, 1928, D. C., N. D. Ill., E. Div., Doc. 8294, *Raytheon Mfg. Co.* v. *The Q. R. S. Co.*

1,552,332. (See 1,503,510.)

1,561,043, R. C. Zuckerman, Potato cleaner and sterilizer, filed June 30, 1928, D. C., N. D. Calif. (Sacramento), Doc. 279, *R. C. Zuckerman* v. *F. H. Hood et al.*

1,561,836, N. Q. Donnelly, Apron, D. C., S. D. N. Y., Doc. E 45/267, *Donnelly Garment Co.* v. *S. Bykowsky et al.* (*The Empress Kimona Co.*). Patent sustained and infringed July 3, 1928.

1,570,230, A. W. Chambers, sr., Lamp shade, filed July 6, 1928, D. C., S. D. N. Y., Doc. E 46/8, *Mayhew & Stephens Co.* v. *Gimbel Bros., Inc.*

1,573,415. (See 1,012,820.)

1,601,469, W. L. Carter, Air register, filed June 18, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–113–H, *Waterloo Register Co.* v. *C. Atherton et al.*

1,607,266, H. V. Lough, Rubberized fabric and its method of manufacture, filed July 6, 1928, D. C., N. D. Ohio, E. Div., Doc. 2613, *U. S. Rubber Co. et al.* v. *The Firestone Tire & Rubber Co.*

1,607,272. (See 1,255,084.)

1,617,171. (See 1,545,207.)

1,617,172. (See 1,545,207.)

1,617,174. (See 1,545,207.)

1,617,177. (See 1,545,207.)

1,617,178. (See 1,545,207.)

1,617,179. (See 1,545,207.)

1,617,180. (See 1,545,207.)

1,617,181. (See 1,545,207.)

1,634,316, E. Becher, Massage heating roller, filed July 6, 1928, D. C., S. D. N. Y., Doc. E 46/7, *E. Becher* v. *Contoure Laboratories, Inc., et al.*

1,660,215, 1,668,481, Ballou & Stafford, Shoe strap, filed June 30, 1928, D. C., S. D. N. Y., Doc. E 45/399, *B. A Ballou & Co., Inc.*, v. *J. Maser et al.*

1,668,338, R. S. Sanford, Vehicle brake, filed July 9 1928, D. C., N. D. Ohio, E. Div., Doc. 266, *Bendix Brake Co.* v. *Midland Steel Products Co.*

1,688,481. (See 1,660,215.)

Re. 15,147, E. T. Brigham, Towel rack, filed June 9, 1928, D. C., N. D. Ohio, E. Div., Doc. 2600, *J. Rousso* v. *Cleveland Toilet Supply Co.*

Re. 15,607, A. Vallot, Device for mounting headlights on motor cars; 1,501,704, O. H. Clarke, Spot or search light assembly, appeal filed July 2, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 8248, *The Shot-Lite Corp. of America* v. *The Clymer Mfg. Co. et al.*

Re. 15,782, Des. 57,640, A. R. Gross, Parking light for automobiles, C. C. A., 4th Cir., Doc. 2710, *A. R. Gross* v. *H. O. Norris* (*R. W. Norris & Sons*). Affirmed as to the mechanical patent, reversed as to design patent, June 15, 1928.

Re. 15,895, Lindsay & Hemphill, Air-agitating tube for refrigerating systems, C. C. A., 4th Cir., Doc. 2686, *Frick Co.* v. *R. F. Lindsay et al.* Reversed June 16, 1928.

Des. 43,459, Kellner & Worms, Knitted necktie, D. C., S. D. N. Y., Doc. E 39/214, *Franklin Knitting Mills, Inc.*, v. *Perry Haberdasher, Inc.* Patent sustained and infringed July 3, 1928.

Des. 57,640. (See Re. 15,782.)

Des. 67,531, L. Lapidus, Signal lamp, D. C., S. D. N. Y., Doc. E 38/339, *U. S. Auto Lamp Mfg. Co., Inc.*, v. *American Auto Lamp Co., Inc.* Patent sustained and infringed July 11, 1928.

Des. 69,569, R. G. Cowan, Flower holder; Des. 72,638, W. A. Sinz, same, D. C., N. D. Ohio, E. Div., Doc. 2543, *Cowan Pottery Studio, Inc.*, v. *Klein, Heffelman & Zollars.* Patents held valid and infringed (notice dated June 29, 1928).

Des. 74,384, E. E. Nahon, Chair, filed July 3, 1928, D. C., S. D. N. Y., Doc. E 45/400, *E. E. Nahon et al.* v. *H. Hermann Furniture Co.*

Adjudicated Patents.

(C. C. A. Mo.) The Llopart patent, No. 1,139,427, for inalterable white pigment and process of making same, claims 3, 6, 8, 9, 10, and 11 *Held* not infringed. *De Lore* v. *St. Louis Lithopone Co.*, 26 F. (2d) 864.

(C. C. A. Mo.) The Llopart patent, No. 1,140,354, for process for production of zinc sulphate, claims 1–5 *Held* invalid for failure to properly describe alleged invention. *Id.*

(C. C. A. Mich.) The Combs patent, No. 1,152,396, relating to improvement in means for supporting gyratory structures, claims 6, 7, 11, 19, 20, and 21 *Held* not infringed. *Great Western Mfg. Co.* v. *Lowe*, 26 F. (2d) 857.

(C. C. A. Md.) The Gross reissue patent, No. 15,782, for automobile parking light, claims 3, 4, 5, and 6 *Held* valid and infringed. *Gross* v. *Norris*, 26 F. (2d) 898, modifying decree 18 F. (2d), 418.

(C. C. A. Md.) The Gross design patent, No. 57,640, for design for automobile parking light, *Held* valid. *Id.*

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 11, 1928.

[VOL. 374. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

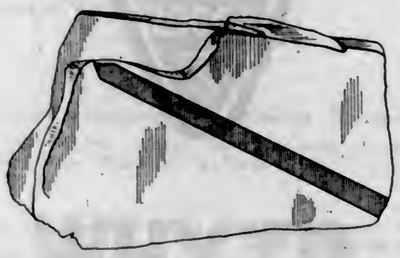
Ser. No. 259,600. SOCIETÀ ANONIMA CELLULOSA, Rome, Italy. Filed Dec. 31, 1927.

YULNA

For Vegetable Fibres for Making Felts, Fabrics, and Yarns.

Claims use since Nov. 8, 1927.

Ser. No. 260,209. BLACKWOOD COAL AND COKE COMPANY, Philadelphia, Pa. Filed Jan. 17, 1928.



The trade-mark consists of a red bar or stripe extending diagonally across a lump of coal. No claim is made to the lump of coal.

For Bituminous Coal.

Claims use since Dec. 20, 1927.

Ser. No. 264,714. CHARMETTE CO. INC., New York, N. Y. Filed Apr. 12, 1928.

CHARMOID

For Noninflammable Cellulose Material for Windshields, Optical Frames, Watch Crystals, Insulation Parts, and Novelties, and Unprocessed Noninflammable Cellulose Materials in the form of Sheets, Rods, Tubes, and Powder for Molding Purposes.

Claims use since Jan. 5, 1925.

Ser. No. 268,220. GREER STAPLE COTTON BREEDING FARMS, Iowa Park, Tex. Filed June 18, 1928.



Applicant disclaims the words "Length, Strength, Texture, Yields, Big Boll," apart from the mark shown.

For Baled Lint Cotton and Sacked Cottonseed.

Claims use since Jan. 1, 1927.

Ser. No. 268,512. J. E. RHOADS & SONS, Philadelphia, Pa. Filed June 22, 1928.



For Lace Leather in the Piece.

Claims use since June 11, 1904.

Ser. No. 268,521. THE TILDESLEY COAL COMPANY, Cincinnati, Ohio. Filed June 22, 1928.

Kongo



"Safe Because It's Good"

The words "Safe Because It's Good" are disclaimed apart from the mark as shown in the drawing.
For Coal.
Claims use since March, 1928.

Ser. No. 268,678. COLEMAN & COMPANY, INC., Philadelphia, Pa. Filed June 26, 1928.



Applicant disclaims the words "Anthracite, Less Ash, More Heat," also the representation of the lump of coal.
For Coal.
Claims use since June 16, 1928.

CLASS 2.

Receptacles.

Ser. No. 262,977. Dr. HEINR. TRAUN & SÖHNE, VORMALS HARBURGER GUMMI-KAMM-COMPAGNIE, Hamburg, Germany. Filed Mar. 10, 1928.



For Receptacles for Acids and the Like, Receptacles for Ink, All of Such Products Being Made of Hard India Rubber or of Synthetic or Other Artificial Resins Used as Substitutes for Hard India Rubber.
Claims use since about 1887.

Ser. No. 268,378. MCCLAIN BROTHERS, Canton, Ohio. Filed June 20, 1928.

Durastone

For Burial Vaults.
Claims use since Apr. 1, 1928.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 242,512. STEIN BROS. MFG. CO., INC., Chicago, Ill. Filed Jan. 7, 1927.



No claim is made for the words "Leather Goods" apart from the mark as shown.
For Brief Cases, Wallets, Purses, Portfolios, Music Cases, Catalog Cases, Name Tags, Envelope Pockets, School Bags, and Salesmen's Cases for Containing and Carrying Silk Samples.
Claims use since Dec. 1, 1921.

Ser. No. 265,991. SHOECRAFT SHOP INC., New York, N. Y. Filed May 5, 1928.

SHOECRAFT

For Ladies' Hand Bags of Metal, Leather, Straw, or Textile Material or Combinations of the Same.
Claims use since 1927.

Ser. No. 268,291. ELIZABETH ALLEN MCDONALD, New York, N. Y. Filed June 19, 1928.

PETTY BAGGAGE BAG

No claim is made to the words "Baggage" and "Bag" apart from the mark shown in the drawing.
For Baggage Bags.
Claims use since March, 1928.

Ser. No. 269,788. JAY THORPE, INC., New York, N. Y. Filed July 18, 1928.

REGENCY

For Beaded Bags.
Claims use since Mar. 20, 1928.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 268,201. WHYTO MANUFACTURING COMPANY, Cresco, Iowa. Filed June 18, 1928.

WHYTO

For Washing and Cleansing Powders With and Without Incidental Bleaching Properties.
Claims use since June 5, 1928.

Ser. No. 269,745. I. T. PIVER, INC., Wilmington, Del., and New York, N. Y. Filed July 17, 1928.

FLORAMYE

For Soaps.
Claims use since Oct. 9, 1895.

Ser. No. 270,180. FRASER PRODUCTS COMPANY, Kansas City, Mo. Filed July 26, 1928.

LANOWA

For Polishing Cloths and Polishing Mittens, Chemically Treated.
Claims use since Feb. 12, 1926.

Ser. No. 270,197. PACQUIN, INC., New York, N. Y. Filed July 26, 1928.

Pacquin's

For Cleansing and Shaving Soap in Solid, Liquid, Powdered, or Cream Form.
Claims use since Dec. 17, 1920.

Ser. No. 270,368. CHERAMY, INC., New York, N. Y. Filed July 31, 1928.

DULCIA

For Toilet Soaps and Shaving Cream.
Claims use since July 21, 1928.

CLASS 5.

Adhesives.

Ser. No. 269,084. CAPE ANN ISINGLASS COMPANY, Boston, Mass. Filed July 5, 1928.



For Adhesive Isinglass.
Claims use since 1872.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 252,091. GERARD C. DEANE, Yonkers, N. Y. Filed July 15, 1927. Under section 5b, act of 1905, as amended in 1920.

First-Aid

Applicant is the owner of registered Trade-Mark No. 179,509.
For Kidney Plasters.
Claims use since about 1904.

Ser. No. 257,306. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Nov. 9, 1927.

VASOPRESSIN

For Preparation for Raising Blood Pressure.
Claims use since Sept. 15, 1927.

Ser. No. 257,741. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Nov. 18, 1927.

OXYTOCIN

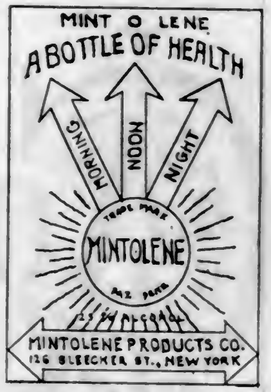
For Preparation for Stimulating Contractions of Uterine and Other Unstriped Muscular Fibers.
Claims use since Sept. 15, 1927.

Ser. No. 258,799. DISPEPCURA MEDICINE COMPANY, Nuevo Laredo, Tamaulipas, Mexico. Filed Dec. 12, 1927.

DISPEPCURA

For Medicine for Dyspepsia.
Claims use since Aug. 27, 1926.

Ser. No. 261,376. MINTOLENE PRODUCTS CO., New York, N. Y. Filed Feb. 8, 1928.



All matter shown on drawing is disclaimed with the exception of the words "Mintolene" and "Mintolene Products Co."
For Antiseptic.
Claims use since Jan. 6, 1927.

Ser. No. 264,094. HAROLD H. FRIES, doing business as Fries Bros., New York, N. Y. Filed Mar. 31, 1928.

VANALDOL

For Ethyl Protocatechnic Aldehyde.
Claims use since Dec. 12, 1927.

Ser. No. 264,381. THE NATIONAL CHEMICAL HOLDINGS LTD., London, England. Filed Apr. 5, 1928.

SLENDEX

For Bath Salts.
Claims use since Feb. 16, 1928.

Ser. No. 265,001. EDGAR W. PARKER, doing business as Dr. Parker Medicine Co., Tampa, Fla. Filed Apr. 17, 1928. Under 10-year proviso.

DR. PARKER'S VITALIZING TABLETS

For General Vitalizing Tonic in Tablet Form.
Claims use since about 1880.

Ser. No. 265,002. EDGAR W. PARKER, doing business as Dr. Parker Medicine Co., Tampa, Fla. Filed Apr. 17, 1928.



The drawing comprises the portrait and signature of Dr. C. W. Parker, deceased.
For General Vitalizing Tonic in Tablet Form.
Claims use since about 1880.

Ser. No. 265,438. MANHATTAN DRUG COMPANY, Brooklyn, N. Y. Filed Apr. 26, 1928.

PERFECTINE

For Tooth Powder, Tooth Paste, and Tooth Wash.
Claims use since Aug. 16, 1901.

Ser. No. 265,439. MANHATTAN DRUG COMPANY, Brooklyn, N. Y. Filed Apr. 26, 1928.

WAUKEAZY

For Foot Powder, Foot-Bath Tablets, and Corn Solvents.
Claims use since February, 1896.

Ser. No. 265,440. MANHATTAN DRUG COMPANY, Brooklyn, N. Y. Filed Apr. 26, 1928.

KROY WEN

For Salve or Ointment and an Emollient for Wounds, Sores, Cuts, Burns, Abrasions, Bites, Stings of Insects, Piles, Ulcers, Eczema, and All Skin Diseases.
Claims use since Nov. 1, 1901.

Ser. No. 265,513. ACME PRODUCTS LIMITED, Winnipeg, Canada, and Detroit, Mich. Filed Apr. 28, 1928.

KEENO

For Medicines—Namely, Medicines for the Disorders of the Stomach, Kidneys, Bowels, and Blood.
Claims use since Mar. 31, 1928.

Ser. No. 266,562. SOCIETE MARTIAL ET ARMAND ET CIE., Paris, France. Filed May 17, 1928.

UN RIEN

For Perfume, Toilet Water, Face Powder, Talcum Powder, Face Creams, Rouge, Lip Sticks, Brilliantine, Bath Salts, Lotion for the Skin and Hair, Dentifrices.
Claims use since Apr. 20, 1925.

Ser. No. 267,010. PURITAN PHARMACEUTICAL COMPANY, St. Louis, Mo. Filed May 25, 1928.

A'Lure

For Complexion Powder, Cleansing Creme, Tissue Creme, Astringent Lotion, Skin Tonic, Foundation Creme, Pore Paste to Reduce the Pores, Rouge, Lip Stick, Depilatory, Bleaching Creme, Acne Creme, Acne Lotion, Muscle Oil, Eye-Wrinkle Lotion, Brilliantine, Liquid Face Powder, Face and Complexion Cream, Perfume Extract, Toilet Water, Talcum Powder, Satchet Powder, Bath Salt, Face and Complexion Lotion, Permanent-Wave Oil, Compacts, Bath Dusting for the Skin After Bathing, Nail Polish, Shampoo, Hand Lotion, After-Shaving Lotion, Lilac Vegetal, Bandoline, Deodorant, Hair Tonic, White Lip Pomade, Eyebrow Pencil, Dental Cream, Shaving Cream.
Claims use since Mar. 31, 1927.

Ser. No. 267,264. LANDER-WHITE CO., Oakland, Calif. Filed May 31, 1928.

VELVET EDGE

For Preparation Applied on Strops for Honing Surgical Instruments, Razors, Etc.
Claims use since Jan. 1, 1919.

Ser. No. 267,313. NORDEN LABORATORIES, Lincoln, Norfolk, and Grand Island, Nebr., and Sioux City, Iowa. Filed June 1, 1928.

Norden

The words "Certified Brand" are claimed only in the form and relation as shown in the drawing and they are disclaimed apart from the mark as shown.
For Veterinary Biologics, Serums, Pharmaceuticals, and Supplies: Anti-Hog-Cholera Serum, Influenza Mixed Bacterin (Equine), Hemmorrhagic Septicemia Bacterin, Keratitis Mixed Bacterin (Bovine), Navel Ill Mixed Bacterin (Equine), Mixed Bacterin (Avian), White Scours Mixed Bacterin (Bovine), Abortion Mixed Bacterin (Bovine), Abortion Mixed Bacterin (Swine), Mastitis Mixed Bacterin (Bovine), Influenza Mixed Bacterin (Equine), Mixed Bacterin (Swine), Polyvalent Mixed Bacterin (Equine), White Scours Mixed Bacterin (Bovine), Canine Distemper Mixed Bacterin, Enteritis Mixed Bacterin (Swine), Avisepticus-Sanguinarium Bacterin, Bovine Abortion Vaccine (Living Culture), Pituitary Extract (Sterile), Pullorin (Intradermal), Bacillus Acidolphilus Culture, Epinephrin Solution (Sterile), Trifiavol Solution (Sterile), Avian Antiseptic Tablets With Guaiacol, Antiseptic Bichloride Tablets (Benay's), Tripie Arsenates No. 1 (Canine, Sugar Coated), Bronchoseptone Pearls with Guaiacol, Bronchoseptone, Biniodide Tablets, Necroseptone (Phenyl Mercuro Salicylate), Guaiacoseptol, Normal Nux, Antiseptine, Fluid Extract Aconite, Fluid Extract Belladonna, Fluid Extract Buchu, Fluid Extract Black Haw, Fluid Extract Calabar Bean, Fluid Extract Bryonia, Fluid Extract Cannabis Americana, Fluid Extract Colchicum, Fluid Extract Corn Silk, Fluid Extract Catechu, Fluid Extract Echinacea, Fluid Extract Digitalis, Fluid Extract Poke Root, Fluid Extract Nuxvomica, Fluid Extract Lily of the Valley, Fluid Extract Lobelia, Fluid Extract Licorice, Fluid Extract Jaborandi, Fluid Extract Ginger, Fluid Extract Henbane, Fluid Extract Gelsemium, Fluid Extract Gentian, Fluid Extract Stramonium, Kamala Worm Powder, Vermifuge Globules, Ascaricide Pearls, Santonin Capsules, Norden's Ascaricide, Worm Oil, Tetralene Capsules, White Lotion, Fibro Solvent, Wound Balsam, Mange Oil (Sulphurated), Wart Remover (Noncaustic), Flea Powder, Louse Powder, Fly Repellant, Concentrated Spirits of Ammonia (Anisated), Pino-Crysol Disinfectant, Cod-Liver Oil, Concentrated Fowler's Solution, Glucose Solution (Sterile), Sodium-Chloride (Pink) Tablets, Sodium-Cacodylate Solution (Sterile), Potassium-Permanganate Tablets, Potassium-Nitrate Tablets, Camphorated Oil, Tincture Iodine, Carbolic Acid, Gelatin Capsules, Antiseptic Wax Teat Dilators.
Claims use since about May 1, 1927.

Ser. No. 267,326. H. T. TAGORE, Union City, N. J. Filed June 1, 1928.



All the wording on the drawing with the exception of the word "Tagore's" is disclaimed. The portrait is that of applicant. A translation of the characters forming the outer border of the mark is Turkish and translated means "Tagore's Oriental Shampoo," the same words appearing thereon four different times.

For Shampoo Preparations.

Claims use since on or about November, 1922.

Ser. No. 267,914. HENRY ELMER WILLSIE, doing business as Manuscura, Cleveland, Ohio. Filed June 12, 1928.

Manuscura

For Manicure Powder.

Claims use since May 14, 1928.

Ser. No. 267,944. M. M. FLERON & SON, INC., doing business as Bercy Laboratories, Trenton, N. J. Filed June 13, 1928.



Applicant disclaims the use of the words "Skin Cream" apart from the mark as shown.

For Greaseless, Antiseptic Healing Creams.

Claims use since March, 1928.

Ser. No. 268,259. CHARLES AGUIRRE, New York, N. Y. Filed June 19, 1928.



The words "A Deodorizer" are disclaimed apart from the mark shown.

For Deodorant Powder.

Claims use since June 23, 1926.

Ser. No. 268,397. GEORGE W. SIMMONS CORPORATION, New York, N. Y. Filed June 20, 1928.

PLEE-ZING

For Chlorinated Lime and Ammonia.

Claims use since February, 1925.

Ser. No. 268,420. THOMAS P. CAHILL, doing business as Anti-Frost Company, Philadelphia, Pa. Filed June 21, 1928.

ANTI-FROST

For Liquid Preparation for Frostbites and Chilblains.

Claims use since May 25, 1928.

Ser. No. 268,456. CHARLES H. MARKS, New York, N. Y. Filed June 21, 1928.



No claim is made to the words "Foot Powder Guarantees Foot Comfort" apart from the mark shown on the drawing.

For Foot Powder, for Softening Corns, Bunions, and for Relieving Burning and Sweating Feet.

Claims use since May 1, 1928.

Ser. No. 268,586. COLE CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo. Filed June 25, 1928.

'CRINE-OIDS

For Preparation for the Reduction of Obesity; for the Treatment of Ovarian Disfunction; for the Treatment of Renal Insufficiency; and for the Treatment of Acidosis, Hyperacidity, and Toximias.

Claims use since Apr. 4, 1928.

Ser. No. 268,601. Sig. J. F. HAHN, doing business as The Hahn Laboratories, Conneaut, Ohio. Filed June 25, 1928.



No claim is made to the exclusive use of the words "Deodorant Disinfectant" except in the association shown. The conventional lining upon the drawing indicates that the background is black, that the center portions of the letters in the words "Hahn's Sans 'O' Dor" is red, as is also the border portion of the label.

For Deodorant and Disinfectant Preparations for Use in the Preservation of Badly-Decomposed Bodies and the Elimination of Obnoxious Odors and for the Purification of Sick Rooms.

Claims use since Jan. 2, 1928.

Ser. No. 268,618. JOSEPH P. MARANTO, Brooklyn, Md. Filed June 25, 1928.

PULMOCURE

For Medicinal Preparation for the Relief and Treatment of Tuberculosis.

Claims use since about March, 1928.

Ser. No. 268,632. LOUIS J. ROSENBERG, New York, N. Y. Filed June 25, 1928.



The portrait appearing on the drawing is merely fanciful.

For Herbs or Tea for Stomach Trouble.

Claims use since June, 1926.

Ser. No. 268,635. SAMODAN COMPANY, San Antonio, Tex. Filed June 25, 1928.

SAMODAN

For Stomach Powder for Use as an Antiacid Gas Eliminant.

Claims use since May 15, 1928.

Ser. No. 268,988. MARSWELL, INCORPORATED, Wantagh, N. Y. Filed July 2, 1928.

Myraphen

For Preparation for Use in the Treatment of Headache, Backache, and Toothache.

Claims use since June 16, 1928.

Ser. No. 268,991. FRANK B. MASON, Hollis, N. Y. Filed July 2, 1928.

SHORTY'S

For Kidney Medicine for Horses.

Claims use since May 1, 1923.

Ser. No. 269,003. THE STANDARD LAND COMPANY, Omaha, Nebr. Filed July 2, 1928.



No claim being made to the words "Automobile Radiator Solution, Will Not Freeze, Trade-Mark," and "Clear as Water," apart from the mark as shown.

For Nonfreezing Solution for Radiators.

Claims use since June 1, 1928.

Ser. No. 269,008. WILLIS A. VOGEL, doing business as Voge-L-iner Sales Co., Toledo, Ohio. Filed July 2, 1928.

PENETRO

For Liquid Preparation for Treating Floors and Walls of Tile, Terrazzo, Magnesite Composition, Cork and Cork Linoleum, and Cement and Concrete Work for Sealing and Hardening the Surface and Making the Material Resistant to Acids and Alkalies.
Claims use since January, 1927.

Ser. No. 269,205. GUISEPPE RAPPAZZO, Boston, Mass. Filed July 6, 1928.

Rapazzo

For Hair Tonic and Preparations for Skin Affections.
Claims use since June 14, 1928.

Ser. No. 269,343. P. BEIERSDORF & CO. INC., New York, N. Y. Filed July 10, 1928.

NIVEA

For Toilet Cream.
Claims use since July 22, 1924.

Ser. No. 269,470. JULIUS R. JONES, doing business as Fix-Rite Chemical Co., Richmond, Va. Filed July 12, 1928.



The picture of the girl is fanciful.
For Hair Dressing.
Claims use since June 1, 1928.

Ser. No. 269,546. NATURO MFG. CO., Los Angeles, Calif. Filed July 13, 1928.

NATURO

For Products Used in the Preparation and Preservation of the Human Dead; Cosmetics—Namely, Face Powder, Rouge, and Face Cream, Lip Stick, Massage Cream, Mascara, Embalming Fluids, Disinfecting and Preserving Fluids.
Claims use since May 1, 1927.

Ser. No. 269,744. L. T. PIVER, INC., doing business as L. T. Piver and Parfumerie L. T. Piver, Wilmington, Del., and New York, N. Y. Filed July 17, 1928.



The word "Paris" being disclaimed apart from the mark shown.
For Sachet Powders, Face Powders, and Talcum Powders.
Claims use since 1900.

Ser. No. 269,838. THE FOOD SPECIALTIES CO., Columbus, Ohio. Filed July 19, 1928.

Red Diamond

For Malt Extract for Medicinal Purposes.
Claims use since Apr. 11, 1928.

Ser. No. 269,849. F. A. LEONARD, doing business as Oro Powder Co., Portland, Oreg. Filed July 19, 1928.

ZENO

For Dentifrice.
Claims use since July 1, 1928.

Ser. No. 269,885. BENDINER & SCHLESINGER, INC., New York, N. Y. Filed July 20, 1928.

ALCO-LUX

For Rubbing Alcohol.
Claims use since May 1, 1925.

Ser. No. 269,887. FRANCIS J. CURRAN, doing business as The Zoro Company, Chicago, Ill. Filed July 20, 1928.

ZOREX

For Deodorants, Disinfectants, and Insectifuges.
Claims use since on or about June 27, 1928.

Ser. No. 269,896. CHARLES L. HARRIS, doing business as Harris' Drug Store, Washington, D. C. Filed July 20, 1928.

CREO-GAD

For Medicinal Preparation for Treating Coughs, Colds, and Bronchial Troubles.
Claims use since Apr. 21, 1924.

Ser. No. 270,259. PAN-AMERICAN DRUG COMPANY, INC., Jacksonville, Fla. Filed July 27, 1928.



The color lining shown on the drawing is used for shading purposes only.
For General Tonic and Mild Laxative.
Claims use since May 25, 1928.

Ser. No. 270,273. AMORSKIN CORPORATION, New York, N. Y. Filed July 28, 1928.

AMOR SKIN

The word "Skin" is disclaimed.
For Face Cream.
Claims use since May, 1927.

Ser. No. 270,275. HENRI BENDEL, INC., New York, N. Y. Filed July 28, 1928.

Cinque Triple Cinque

For Perfumes and Hygienic Products—Namely, Bath Salts, Astringents, Cold Creams, Face Packs, Shampoos, Talcum Powders, Eye Drops, Toilet Waters, Smelling Salts, Aromatic Vinegars, Skin Creams, Face Powders, Rouges, Skin Bleaches, Lip Sticks, Eyebrow Pencils, and Hair, Face, Hand, and Foot Lotions.
Claims use since Feb. 15, 1928.

Ser. No. 270,290. THE O. M. FRANKLIN BLACKLEG SERUM COMPANY, Denver, Colo. Filed July 28, 1928.



The lining on the drawing does not indicate color but is used for shading only.
For Blackleg Vaccine.
Claims use since Aug. 23, 1917.

Ser. No. 270,317. HARVEY E. BRUSH, Marshalltown, Iowa. Filed July 30, 1928.

POYSAAN

For Liquid Preparation for the External Treatment of Diseases and Poisoning of the Skin—Namely, Barber's Itch, Ringworm, Pimples, Poison Ivy, Poison Oak, Insect Bites, and for Use After Shaving.
Claims use since Jan. 1, 1927.

Ser. No. 270,327. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed July 30, 1928.

SYMPOCAINE

For Local Anesthetic in Ampoule or Tablet Form or in Solution.
Claims use since July 5, 1928.

Ser. No. 270,338. MILTON KLEIN, doing business as O-Kay Laboratories, Cleveland, Ohio. Filed July 30, 1928.

PROCON

For Medicinal Preparation for the Relief of Frequent Desire to Urinate, Lack of Urine Control, and Irritation of the Bladder.
Claims use since March, 1922.

Ser. No. 270,348. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 30, 1928.

BUTALONE

For Chemical Substance Possessing Medicinal Properties as a Hypnotic.
Claims use since Apr. 21, 1928.

Ser. No. 270,349. THE PASSIVATION PRODUCTS COMPANY, Cleveland, Ohio. Filed July 30, 1928.

PASSIVITE

For Chemical Compounds and Solutions for Cleaning and Treating Metal Surfaces, Chemical Compounds and Solutions for Removing Rust and Scale from Steam Boilers and Hot-Water Systems, Chemical Compounds and Solutions for Preventing Rusting and Corrosion in Steam Boilers and Hot-Water Systems, and Boiler Compounds.
Claims use since March, 1928.

Ser. No. 270,369. CHERAMY, INC., New York, N. Y. Filed July 31, 1928.

DULCIA

For Perfumes, Toilet Water, Face Powder, Talcum Powder, Compacts, Lotion for the Skin and Hair, Vegetal Brilliantine, Bandoline, Face Cream, Rouge, Lip Sticks, Bath Salts, Sachet and Dusting Powder.
Claims use since July 21, 1928.

Ser. No. 270,382. MAISON JENNY SOCIÉTÉ ANONYME, Paris, France. Filed July 31, 1928.

JENNY

For Perfumed Cream for Toilet Use.
Claims use since Jan. 1, 1928.

Ser. No. 270,388. FRANK M. PERCIVAL, doing business as Adam de Cluhn Laboratories, Corona, N. Y. Filed July 31, 1928.

An-al-so

For Cold Cream, Hair Tonic, Bleaching Astringent (the Latter Being a Lotion or Liquid), Liquid for Curling or Straightening or Setting the Hair, Shampoo, and Face Powder.
Claims use since Nov. 20, 1927.

Ser. No. 270,411. THE BARRETT COMPANY, New York, N. Y. Filed Aug. 1, 1928.



For Organic and Inorganic Chemicals—Namely, Sulphate of Ammonia, Nitrate of Soda, Ammonium Chloride, Ammonium Nitrate, Ammonium Phosphate, Calcium Nitrate, and Urea.
Claims use since 1914 as to sulphate of ammonia; as to nitrate of soda, ammonium phosphate, and urea since June, 1928; as to calcium nitrate since July 2, 1928; and to ammonium chloride and ammonium nitrate since July 5, 1928.

Ser. No. 270,419. S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed Aug. 1, 1928.

la gloria

For Permanent-Waving Oil and Hair-Curling Lotion.
Claims use since July 15, 1928.

Ser. No. 270,430. HENRY F. KOCH, doing business as Koch Chemical Co., Evansville, Ind. Filed Aug. 1, 1928.

ENDER

For Insecticides.
Claims use since May 1, 1928.

Ser. No. 270,448. E. R. SQUIBB & SONS, New York, N. Y. Filed Aug. 1, 1928.

Cremolagar

For Liquid Preparation to be Used as a Laxative.
Claims use since July 31, 1928.

Ser. No. 270,458. E. BILHUBER, INC., New York, N. Y. Filed Aug. 2, 1928.

Metrazol

For Medicine for the Heart and the Vascular System.
Claims use since on or about July 24, 1928.

Ser. No. 270,480. HOLLINGS-SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928. Under 10-year proviso.

Gentiana Comp. Bell

For Medicine for the Treatment of Atonic Dyspepsia, Constipation, Anemia, and Loss of Appetite.
Claims use since Feb. 6, 1895.

Ser. No. 270,481. HOLLINGS-SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928. Under 10-year proviso.

TONIC ALTERATIVE BELL

For Medicine for the Treatment of Chronic Rheumatic, Hepatic, Scrofulous Skin, and Syphilitic Affections.
Claims use since Feb. 6, 1895.

Ser. No. 270,482. HOLLINGS-SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928. Under 10-year proviso.

CANNABIN BELL

For Nerve Tonic and Stimulant in the Treatment of Mental and Physical Exhaustion, Insomnia, Depression, and Neuralgia.
Claims use since Feb. 6, 1895.

Ser. No. 270,485. HOLLINGS-SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928. Under 10-year proviso.

Salacetin Comp. Bell

For Medicine for the Treatment of Cholera Morbus, Diarrhœa, Also Rheumatic, Sciatica, Gout, and Grippe Pains, Dysmenorrhœa, Migraine, and Insomnia.
Claims use since Feb. 6, 1895.

Ser. No. 270,486. HOLLINGS SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928. Under 10-year proviso.

Coryza Bell

For Medicine for the Treatment of Colds.
Claims use since Feb. 6, 1895.

Ser. No. 270,487. HOLLINGS-SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928. Under 10-year proviso.

KAVA-KAVA COMP. BELL

For Medicine for the Treatment of Dropsy, Cystitis, Prostatitis, and Urethritis.
Claims use since Feb. 6, 1895.

Ser No. 270,480. HOLLINGS-SMITH CO., Orangeburg, Filed Aug. 2, 1928. Under 10-year proviso.

SEDATIVE BELL

For Medicine for Treatment of Hysteria, Melancholia, Insomnia, and Nervous Headache.
Claims use since Feb. 6, 1895.

Ser. No. 270,489. HOLLINGS-SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928.

CAS-CAR-ĀNS

For Medicine for Treatment of Constipation.
Claims use since Feb. 6, 1895.

Ser. No. 270,490. HOLLINGS-SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928. Under 10-year proviso.

BELL'S SYRUP (CODEINE COMPOUND) FOR COUGHS

For Cough Syrup.
Claims use since Feb. 6, 1895.

Ser. No. 270,531. BONIDE CHEMICAL CO. INC., Utica, N. Y. Filed Aug. 3, 1928.

CROW-TOX

For Preparation for Protecting Seed Against Birds and Animals and for Invigorating Seed.
Claims use since July 20, 1928.

Ser. No. 270,552. LENTHERIC, INCORPORATED, New York, N. Y. Filed Aug. 3, 1928.

LE PIRATE

For Perfumes, Toilet Water, Face Powder, and Talcum Powder.
Claims use since July 20, 1928.

Ser. No. 270,579. FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed Aug. 4, 1928.

KASTROL

For Colloidal Preparation of Castor Oil Employed in the Usual Doses in Which Castor Oil Itself is Used and Designed for Use as a Laxative and Cathartic.
Claims use since July 16, 1928.

Ser. No. 270,698. DUNCAN B. FRANKLIN, Brooklyn, N. Y. Filed Aug. 7, 1928.

FRAGRETTE

For Personal Deodorant.
Claims use since July 25, 1928.

CLASS 11.

Inks and Inking Materials.

Ser. No. 268,669. THE AMERICAN PERFORATER CO., Chicago, Ill. Filed June 26, 1928.

Cheko

For Indorsing-Machine Ink.
Claims use since about Jan. 9, 1928.

CLASS 12.

Construction Materials.

Ser. No. 264,695. THE PARETEX COMPANY, INC., New York, N. Y. Filed Apr. 11, 1928.

PAREGLAZE

For Wall-Finishing Material to be Spread Upon Walls Which is Sold in Powder Form and is Made Plastic by Mixing with Water.
Claims use since Jan. 1, 1928.

Ser. No. 268,592. DUPLEX STEEL RE-ENFORCEMENT COMPANY, Liberty and Indianapolis, Ind. Filed June 25, 1928.

DUPEX

For Steel Reenforcing Element for Concrete Pavements and Floors.
Claims use since Apr. 9, 1928.

Ser. No. 268,747. PLASTEX COMPANY, Hammond, Ind. Filed June 27, 1928.

PLASTEX

For Wall Plaster for Interior Decoration.
Claims use since Jan. 15, 1928.

Ser. No. 268,759. WEYERHAEUSER FOREST PRODUCTS, St. Paul, Minn. Filed June 27, 1928.

RITE-ROOF

For Wooden Shingles and Shakes.
Claims use since June 5, 1928.

Ser. No. 269,176. ARMSTRONG CORK & INSULATION COMPANY, Pittsburgh and Lancaster, Pa. Filed July 6, 1928.

CORKOUSTIC

For Boards or Sheets Made Wholly or in Part of Cork, for the Deadening of Sound and Acoustical Correction in Rooms of Buildings, Auditoriums, and the Like.
Claims use since June 8, 1928.

Ser. No. 269,190. WILLIAM H. D. HINCHMAN, doing business as W. H. D. Hinchman Construction Co., Detroit, Mich. Filed July 6, 1928.

"Corcrete"

For Blocks and Sheets Formed Principally of Granular Cork and Portland Cement.
Claims use since Apr. 12, 1928.

Ser. No. 269,423. PLASTICO SEWER PIPE JOINT COMPANY, Valley Junction, Iowa. Filed July 11, 1928.

PLASTICO

For Plastic Sealing Substance for Pipe Joints and the Like.
Claims use since about Oct. 7, 1927.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 263,945. HENION AND HUBBELL, Chicago, Ill. Filed Mar. 29, 1928.

H TRADE AND MARK H

The words "Trade Mark" are disclaimed apart from the mark as shown in the accompanying drawing.
For Bathtubs, Sitz Baths, Foot Baths, Shower Sprinklers, Shower Baths, Shower-Bath Receptors, Bath Supply and Waste Fixtures, Bathtub Soap Trays, Lavatories, Lavatory Supply and Waste Fixtures, Lavatory Supply Pipes, Needle Baths; Sink and Lavatory Traps, Basin Plugs, Drinking Fountains, Water Plugs, Closet Bowls, Closet Tanks, Closet Seats, Sinks, Drain Boards, Slop Sinks, Laundry Trays, Grease Traps, Drum Traps, Urinals, Plumbers' Lead Pipe; Plumbers' Ferrules, Soldering Nipples, Goosenecks, Pipe Couplings, Drains, Cesspools, Metal Soil Pipes, Metal Soil-Pipe Fittings, Plumber's Vents for Soil Pipes.
Claims use since Mar. 19, 1928.

Ser. No. 267,876. UNITED WIRE GOODS MFG. CO., New York, N. Y. Filed June 11, 1928.

IVARY

For White Enameled-Wire Bathroom Fixtures—Namely, Towel Bars, Toilet-Paper Holders, Toothbrush Holders, Tumbler Holders, Soap Dishes, Arm Racks, Shelf Brackets, Dish Drainers, and Hooks.
Claims use since Jan. 1, 1922.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 266,444. UDDEHOLMS AKTIEBOLAG, Uddeholm, Sweden. Filed May 15, 1928.

ÆB

For Iron and Steel in the Shape of Rolled or Hammered Bars, Wire Rods, or Drawn Wire.
Claims use since 1841.

Ser. No. 266,445. UDDEHOLMS AKTIEBOLAG, Uddeholm, Sweden. Filed May 15, 1928.

X

For Iron and Steel in the Shape of Rolled or Hammered Bars, Wire Rods, or Drawn Wire.
Claims use since 1872.

Ser. No. 266,510. CRANE CO., Chicago, Ill. Filed May 17, 1928.

C

For Ferrous and Nonferrous Rough Castings and Forgings.
Claims use since Aug. 1, 1896.

Ser. No. 267,475. THE AMERICAN BRASS COMPANY, Waterbury, Conn. Filed June 5, 1928.

TEMPALOY

For Bronze Ingots, Castings, Pressed Parts, Sheets, Wire, and Rods.
Claims use since Apr. 11, 1928.

Ser. No. 267,476. THE AMERICAN BRASS COMPANY, Waterbury, Conn. Filed June 5, 1928.

TEMPALOY

For Bronze Ingots, Castings, Pressed Parts, Sheets, Wire, and Rods.
Claims use since Apr. 11, 1928.

Ser. No. 268,934. THE OHIO BRASS COMPANY, Mansfield, Ohio. Filed June 30, 1928.

DURON

For Welding Rods for Use Particularly When the Electric Arc or a Gaseous Heating Flame is Employed.
Claims use since June 25, 1928.

Ser. No. 269,537. MUELLER BRASS CO., Port Huron, Mich., Filed July 13, 1928.

Mueller 600 BEARING METAL

No claim is made to the words "Bearing Metal" apart from the mark as shown on the drawing.
For Alloy Metal Mixture of High Wearing Qualities for Use on Connecting Rods, Bushings, Gears, and Other Mechanical Parts.
Claims use since on or about May 28, 1928.

CLASS 15.

Oils and Greases.

Ser. No. 267,981. MACMILLAN PETROLEUM PRODUCTS COMPANY, Los Angeles, Calif. Filed June 13, 1928.

MACMILLAN More Mileage GASOLINE

The descriptive words "More Mileage" and "Gasoline" are disclaimed apart from the mark shown in the drawing.
For Kerosene, Gasoline, Naptha, Motor-Lubricating Oil, Fuel Oil, Lubricating Grease.
Claims use since January, 1925.

Ser. No. 268,122. VACUUM OIL COMPANY, New York, N. Y. Filed June 15, 1928.

VACLORY

For Oils, Greases, and Waxes of All Kinds and Similar Products, All for Lubricating, Illuminating, Heating, and Fuel Purposes; Also Gasoline.
Claims use since June 2, 1928.

Ser. No. 268,393. SCHOMBURG & SCHOMBURG, Brooklyn, N. Y. Filed June 20, 1928.

CYCLONE

For Gasoline and Lubricating Oils and Greases.
Claims use since June 1, 1927.

Ser. No. 269,201. PARAGON OIL COMPANY, INC., Glendale, N. Y. Filed July 6, 1928.

FUELENE

"MAKES WARM FRIENDS"

For Heating Oils.
Claims use since Dec. 15, 1927.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 262,601. EVERLASTING PAINT & SALES COMPANY, Los Angeles, Calif. Filed Mar. 5, 1928.

"McEVERLAST"

For Paints—Namely, Prepared and Partly Prepared Paints; Lacquers, Varnishes, Preparations in the Nature of Paint Having Asphalt Bases for Preventing Rust of Iron and Steel, and Similar Metals; Coatings in the Nature of a Paint Having Asphalt Bases for Wood, Metals, Fabrics, Plaster, Concrete, and Stucco.
Claims use since July, 1926.

Ser. No. 265,791. GUSTAV RUTH AKTIENGESELLSCHAFT, Wandsbek, Germany. Filed May 2, 1928.

IMPREX

For Ready-Mixed Paints, Paste Paints, Paint Oils, Drying Oils, Paint Thinners, Putty, Paint Driers, Lacquers, Varnishes, Primers, and Paint Pigments.
Claims use since Nov. 22, 1915.

Ser. No. 267,598. MICHAEL MCNAMARA VARNISH WORKS, Detroit, Mich. Filed June 6, 1928.



No claim is made to the representation of a label. The lining is for shading only. The mark consists in a plurality of different-colored paints flowing downwardly from a plurality of upturned buckets and so mingling in a common pool beneath the buckets. No claim is made to the particular colors represented by the conventional color linings in drawing.
For Ready-Mixed Paints, Varnishes, and Lacquers.
Claims use since Apr. 1, 1927.

Ser. No. 268,892. ALLEN H. SWEET, New Orleans, La. Filed June 29, 1928.

NOSHORT

For Paint for Ignition Systems and Other Electrical Work Where Waterproofing is Desired.
Claims use since Jan. 1, 1927.

Ser. No. 269,275. BEATS-ALL CO., Chicago, Ill. Filed July 9, 1928.



The words "Beats All" are disclaimed apart from the mark shown in the drawing.
For Cleaner and Polish for Furniture, Floors, Linoleum, Pianos, and Automobiles.
Claims use since June 1, 1927.

Ser. No. 269,666. WILLIAM R. KNOTT, Rochester, N. Y. Filed July 16, 1928.

CELLAPOL

For Cleaning and Polishing Preparations for Cellulose-Finished Motor Vehicles.
Claims use since June 25, 1928.

Ser. No. 270,202. RED SPOT PAINT & VARNISH CO., INC., Evansville, Ind. Filed July 26, 1928.

EBOLITE

For Ready-Mixed Asphalt Paint.
Claims use since Apr. 1, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 268,251. HENRY SUTLIFF, doing business as H. Sutliff Pipe Shop, San Francisco, Calif. Filed June 18, 1928.



The words "Blend, Mild and Mellow Smoking Tobacco" are disclaimed, except as used in connection with the balance of the mark as shown, and the words "Trade-mark Registered" are entirely disclaimed.
For Smoking Tobacco.
Claims use since on or about Jan. 1, 1912.

Ser. No. 268,805. PARK & TILFORD, New York, N. Y. Filed June 28, 1928.

19TH HOLE



For Cigars.
Claims use since Mar. 21, 1928.

Ser. No. 269,473. THE KILDOW CIGAR COMPANY, INC., Bethesda, Ohio. Filed July 12, 1928.

Garcia Mystery

THE WONDER CIGAR

The word "Cigar" is disclaimed apart from the other features of the mark appearing in the drawing.
For Cigars.
Claims use since Nov. 1, 1923.

Ser. No. 269,907. EDUARDO SUAREZ MURIAS Y COMPAÑIA, Habana, Cuba. Filed July 20, 1928.

LA RADIANTE



For Cigars.
Claims use since Aug. 18, 1924.

Ser. No. 270,277. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C. Filed July 28, 1928.

Blue Buckle



For Smoking and Chewing Tobacco and Cigarettes.
Claims use since July 20, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 268,010. JOHN WARREN WATSON COMPANY, Philadelphia, Pa. Filed June 13, 1928.

RUBBER FLOW

For Friction Braking Mechanism and Parts, Recoil Checks, Shock-Absorbing Mechanisms, and the Like for Vehicles.
Claims use since June 4, 1928.

Ser. No. 269,775. G. ELIAS & BRO. INC., Buffalo, N. Y. Filed July 18, 1928.

Aircoupe

For Airplanes and Airplane Structural Parts.
Claims use since on or about May 4, 1928.

Ser. No. 269,817. ALLOY BOAT CORPORATION, Buffalo, N. Y. Filed July 19, 1928.

Slipper

For Outboard Boats.
Claims use since July 5, 1928.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 266,355. CARTHAGE MILLS INCORPORATED, Cincinnati, Ohio. Filed May 14, 1928.



For Linoleum.
Claims use since Apr. 10, 1928.

Ser. No. 269,762. ARCHER RUBBER PRODUCTS CO. INC., New York, N. Y. Filed July 18, 1928.

A·R·P·Co·

For Mats and Floor Covering Made Principally of Rubber Having a Fabric Base.
Claims use since Mar. 1, 1927.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 243,314. INTER-STATE AUTO PARTS CO., INC., New York, N. Y. Filed Jan. 25, 1927.

MILURY

PRODUCTS

The word "Products" being disclaimed apart from the mark.
For Automobile Accessories, Consisting of Electrical Horns, Lamps, Battery Connectors, Ignition Parts, Spark Plugs, and Switches.
Claims use since Mar. 1, 1928.

Ser. No. 257,122. SKINNER-HILL CO., INC., New York, N. Y. Filed Nov. 5, 1927.



For Electrical Lighting Fixtures.
Claims use since Dec. 1, 1926.

Ser. No. 259,992. JOSEPH BLOCK, doing business as Block-Bilt Battery Co., New York, N. Y. Filed Jan. 12, 1928.



No claim is made to the word "Battery" and the representation of battery plates apart from the mark shown in the drawing.
For Batteries.
Claims use since July, 1927.

Ser. No. 260,808. CONSULTING & RADIO SERVICE, LIMITED, Glasgow, Scotland. Filed Jan. 28, 1928.

MAGNATONE

For Radio Receiving Sets Adapted for Combination with Phonographs.
Claims use since on or about Sept. 17, 1927.

Ser. No. 264,746. AUTOMATIC ELECTRIC INC., Chicago, Ill. Filed Apr. 13, 1928.

STROWGER AUTOMATIC

No claim is made for the words "Strowger" and "Automatic" or the representation of the mechanical features of the goods apart from the mark shown in the drawing.
For Automatic Telephone Systems.
Claims use since July 7, 1927.

Ser. No. 267,166. VENTRIL-O-FONE COMPANY, Wilmington, Del. Filed May 28, 1928.

VENTRIL-O-FONE

"The Radio Educational Entertainer"

No claim is made to term "The Radio Educational Entertainer" apart from the mark as shown.
For Microphonic Attachment for Radio Receiving Sets for Substituting Local Matter for that Broadcast from a Distance.
Claims use since Mar. 10, 1928.

Ser. No. 269,638. THE COROZONE COMPANY, Cleveland, Ohio. Filed July 16, 1928.

COROZONE

For Electric Ozone Machines.
Claims use since on or about June 1, 1928.

Ser. No. 269,640. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis. Filed July 16, 1928.

I T L

For Electric Motor-Control Apparatus.
Claims use since July 9, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 251,505. JUDD SPECIALTIES INC., Boston, Mass. Filed July 5, 1927.



For Game Ball Holders.
Claims use since on or about June 28, 1927.

Ser. No. 260,106. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Jan. 14, 1928.

"DIAMOLITE"

For Fishing-Reel Parts.
Claims use since on or about Dec. 15, 1927.

Ser. No. 260,107. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Jan. 14, 1928.

FLILITE

For Artificial Bait.
Claims use since on or about Nov. 1, 1927.

Ser. No. 260,108. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Jan. 14, 1928.

MUSKILL

For Artificial Bait.
Claims use since on or about Dec. 1, 1927.

Ser. No. 267,469. THE SUPERIOR TYPE COMPANY, Chicago, Ill. Filed June 4, 1928.



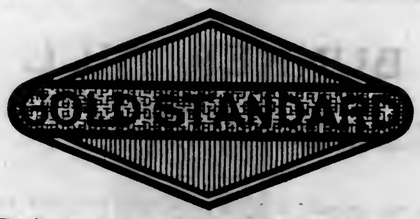
For Toy Rubber Stamps, Representing Particularly Animals, Birds, Etc., Intended for Use by Children.
Claims use since Mar. 27, 1928.

Ser. No. 268,212. COLLINGBOURNE MILLS, INC., Elgin, Ill. Filed June 18, 1928.

Col. Bogey's Tee Cup

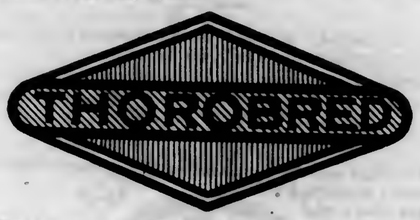
The words "Tee Cup" are hereby disclaimed apart from the other features of the mark as shown.
For Golf Tees.
Claims use since May 15, 1928.

Ser. No. 269,335. UNITED STATES WHIP CO., also doing business as U. S. Golf Manufacturing Co., Westfield, Mass. Filed July 9, 1928.



The intermediate panel illustrated in the drawing and containing the words "Gold Standard" is lined for yellow, and the triangles at either side thereof are lined for red.
For Golf Clubs.
Claims use since July, 1927.

Ser. No. 269,336. UNITED STATES WHIP CO., also doing business as U. S. Golf Manufacturing Co., Westfield, Mass. Filed July 9, 1928.



The intermediate panel illustrated in the drawing and containing the word "Thorobred" is lined for green, and the triangles at either side thereof are lined for red.
For Golf Clubs.
Claims use since July, 1927.

Ser. No. 269,337. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass. Filed July 9, 1928.



For Fishing Lines.
Claims use since July 1, 1923.

Ser. No. 269,338. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass. Filed July 9, 1928.



The word "Enameled" is hereby disclaimed apart from the features of the mark shown.
For Fishing Lines.
Claims use since July 1, 1923.

Ser. No. 269,339. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass. Filed July 9, 1928.



The words "Trout" and "Flexible-Durable" are hereby disclaimed apart from the features of the mark shown.
For Fishing Lines.
Claims use since Aug. 1, 1924.

Ser. No. 269,352. GUSTAVE E. KOPPE, doing business as The Elkloid Company, Providence, R. I. Filed July 10, 1928.

ELK BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark as shown on the drawing.
For Dice, Dice Shakers, Dominoes, Poker Chips, Spinning Tops, Hollow Balls, Score Pads, Playing-Card Cases, and Trump Indicators for Cards.
Claims use since July, 1921.

Ser. No. 269,377. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass. Filed July 10, 1928.

BLACK CHAMPION

For Fishing Lines.
Claims use since July 1, 1923.

Ser. No. 269,378. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass. Filed July 10, 1928.

Satisfaction

For Fishing Lines.
Claims use since Aug. 1, 1924.

Ser. No. 269,437. WALLIE DORR CO. INC., New York, N. Y. Filed July 11, 1928.

C-M-WALK

For Walking Pull Toys.
Claims use since Mar. 1, 1928.

Ser. No. 269,543. NATIONAL FIREWORKS, INC., West Hanover, Mass. Filed July 13, 1928.

"OLD IRONSIDES"

For Toy Pistols.
Claims use since March, 1927.

Ser. No. 269,544. NATIONAL FIREWORKS, INC., West Hanover, Mass. Filed July 13, 1928.

Wild West

For Toy Pistols.
Claims use since January, 1928.

Ser. No. 269,545. NATIONAL FIREWORKS, INC., West Hanover, Mass. Filed July 13, 1928.

BUNKER HILL

For Toy Pistols.
Claims use since January, 1928.

Ser. No. 269,695. J. W. SPEAR & SONS, INC., New York, N. Y. Filed July 16, 1928.

Coppit and Coppit

For Parlor Games.
Claims use since May 16, 1928.

Ser. No. 269,704. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill. Filed July 16, 1928.

Johnny Farrell

The mark consists in the facsimile signature of Johnny Farrell; permission granted.
For Golf Clubs.
Claims use since June 28, 1928.

Ser. No. 269,962. KNAPP ELECTRIC CORPORATION, Port Chester, N. Y. Filed July 21, 1928.

THE TELL BELL

For Toy or Game Comprising a Set of Charts from Which Various Calculations and Information Can be Evolved.
Claims use since Mar. 31, 1928.

Ser. No. 270,108. BIRNEY W. BOWMAN, Cleveland, Ohio. Filed July 25, 1928.

TALLY HO

For Score-Calculating Devices.
Claims use since May 24, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 266,215. NICHOLSON FILE COMPANY, Providence, R. I. Filed May 10, 1928.



Applicant claims ownership of registered Trade-Mark No. 185,282, issued June 10, 1924.
For Files and Rasps.
Claims use since Apr. 16, 1928.

Ser. No. 269,248. NAHMASCHINEN-TEILE AKTIEN-GESELLSCHAFT, Dresden, Germany. Filed July 7, 1928.



For Sewing Machines and Parts Thereof.
Claims use since Mar. 7, 1927.

Ser. No. 269,657. HICKOK & HICKOK, San Francisco, Calif. Filed July 16, 1928.

BULBEAM

For Logging and Loading Tongs.
Claims use since Mar. 1, 1928.

Ser. No. 270,248. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio. Filed July 27, 1928.

DRAG-ON

For Excavating, Elevating, and Conveying Machinery.
Claims use since Mar. 8, 1928.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 269,323. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed July 9, 1928.

Iron-all

For Electric Ironing Machines.
Claims use since Mar. 27, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 263,374. THE BROWN INSTRUMENT COMPANY, Philadelphia, Pa. Filed Mar. 19, 1928. Under section 5b of the act of 1905 as amended in 1920.

BROWN

Applicant claims ownership of Certificate No. 116,398, registered May 1, 1917, under the 10-year proviso of section 5b of the act of Feb. 20, 1905.

For Potentiometers for Measuring Electrical Potentials; Automatic Controlling Instruments for Controlling Switches, Dampers and Valves Regulating Temperatures, Pressures, and Vacuums, Speeds, Fluid Flows, and Analogous Quantities; Flow Meters; Gas-Analysis Instruments and Automatic Signalling Instruments for Indicating Certain Temperatures, Pressures, and Vacuums, Speeds, Fluid Flows, and Analogous Quantities by Gongs, Whistles, Bells, or Lights.

Claims use to potentiometers since Apr. 25, 1920; to automatic controlling instruments since Nov. 29, 1916; to automatic signalling instruments since Aug. 19, 1918; to gas-analysis instruments since Dec. 4, 1923; and to flow meters since Dec. 18, 1926.

Ser. No. 268,821. HELEN HALL SMITH, doing business as Sye Pattern Co., St. Louis, Mo. Filed June 28, 1928.



For Patterns for Women's Wearing Apparel.
Claims use since Jan. 24, 1928.

Ser. No. 269,241. MAX KAPLAN, Port Chester, N. Y. Filed July 7, 1928.

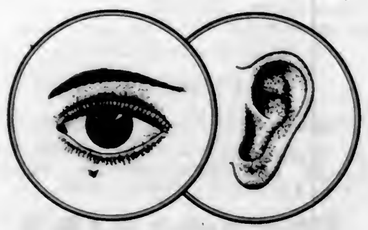


The word "Lenses" is disclaimed apart from the mark shown in the drawing.

For Ophthalmic Mountings, Lenses, Telescopes, Binoculars, Opera and Field Glasses, and Microscopes.

Claims use since June, 1924.

Ser. No. 270,325. FOX CASE CORPORATION, New York, N. Y. Filed July 30, 1928.



For Motion Pictures.

Claims use since about May 25, 1928.

Ser. No. 270,326. FOX CASE CORPORATION, New York, N. Y. Filed July 30, 1928.

MOVIETONE

For Motion Pictures.

Claims use since about May 25, 1928.

CLASS 27.

Horological Instruments.

Ser. No. 269,615. SWISS HAIRSPRING SERVICE, INC., New York, N. Y. Filed July 14, 1928.



For Watch Materials—viz, Hairsprings and parts of Watches.

Claims use since Apr. 20, 1928.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser No. 265,129. THE WADSWORTH WATCH CASE COMPANY, Dayton, Ky. Filed Apr. 19, 1928.

TITAN

For Bracelets and Watch Bands.

Claims use since Jan. 25, 1928.

Ser. No. 266,285. THE WADSWORTH WATCH CASE COMPANY, Dayton, Ky. Filed May 11, 1928.

AMAZON

For Bracelets and Watch Bands.

Claims use since Apr. 12, 1927.

Ser. No. 266,286. THE WADSWORTH WATCH CASE COMPANY, Dayton, Ky. Filed May 11, 1928.

OLYMPIAN

For Bracelets and Watch Bands.

Claims use since Apr. 12, 1927.

Ser. No. 269,603. PRUTINSKY & WOOLF, New York, N. Y. Filed July 14, 1928.



For Articles of Jewelry for Personal Wear Not Including Watches.

Claims use since Jan. 1, 1928.

Ser. No. 269,618. W. & P. JEWELRY CO. INC., New York, N. Y. Filed July 14, 1928.



For Articles of Jewelry for Personal Wear Not Including Watches.

Claims use since Jan. 1, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 269,407. HOUSE OF TRE-JUR, INC., New York, N. Y. Filed July 11, 1928.

TRE-JUR

For Powder Puffs.

Claims use since Sept. 1, 1923.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 266,027. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 18, 1928.

SUNRISE

For Semiporcelain American Dinner Ware.

Claims use since Mar. 3, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 255,812. WM. H. MCMAHEN COMPANY, Philadelphia, Pa. Filed Oct. 8, 1927.



For Mattresses, Cushions, Bed Springs, Cots, Divans, Bedsteads, Day Beds, Cribs, Cradles, Bassinets, Couches, Feather Beds, Pillows, and Bolsters.

Claims use since August, 1889.

Ser. No. 265,389. MAX E. LICHTER, doing business as The Fulton Mattress & Bedding Co., New York, N. Y. Filed Apr. 25, 1928.



The words "Scientific Mattress" are disclaimed apart from the mark as shown in the drawing.

For Bedding—Namely, Pillows, Mattresses, and the Beds Proper.

Claims use since Dec. 1, 1927.

Ser. No. 270,337. JEWEL SAFE DESK CORPORATION, Jersey City, N. J. Filed July 30, 1928.



For Desks.

Claims use since July 3, 1928.

CLASS 33.

Glassware.

Ser. No. 261,741. DUPLEXALITE DIVISION OF THE MILLER COMPANY, Meriden, Conn. Filed Feb. 16, 1928.

FROSTONE

For Opalescent Glass Globes and Reflectors.
Claims use since Feb. 1, 1927.

Ser. No. 270,100. ULTRAVIOLET GLASS CORPORATION, New York, N. Y. Filed July 24, 1928.

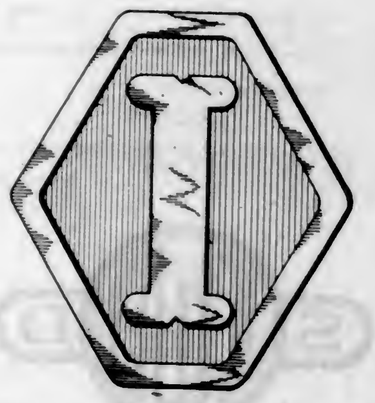


For Ultraviolet-Ray Transmitting Glass.
Claims use since July 19, 1928.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 258,335. INDIA TIRE & RUBBER COMPANY, Akron, Ohio. Filed Dec. 2, 1927.



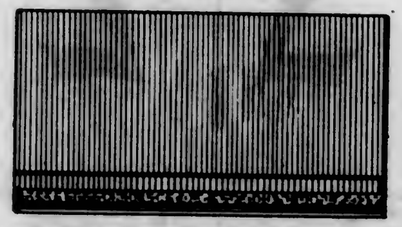
The trade-mark consists of a hexagonal border inclosing a red background on which a letter "I" appears.
For Pneumatic Tires.
Claims use since July 1, 1927.

Ser. No. 268,825. WILLIAM H. THOMSON, doing business as Thomson Mfg. Co., Peoria, Ill. Filed June 28, 1928.

ROLLPEX

For Stock Crimped-Steel Ribbon for Making Expander Rings for Piston Rings of Internal-Combustion Engines.
Claims use since about June 1, 1923.

Ser. No. 269,558. WESTERN STATES MFG. CO., Sioux City, Iowa. Filed July 13, 1928.



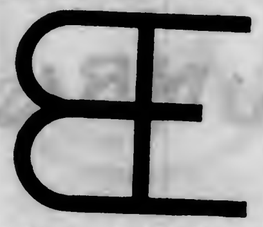
The trade-mark consists of a yellow stripe, interposed between a red stripe and a blue stripe, the stripes being formed by the exposed edges of the three layers of rubber of the patching material, the upper layer being colored red, the intermediate layer being colored yellow, and the underneath layer being colored blue, respectively. The drawing is lined to indicate the colors red, yellow, and blue, the vertical lines indicating the color red, the horizontal lining the color blue, and the cross lining the color yellow. The right to the exclusive use of the representation of the goods upon which the mark is used is hereby disclaimed.
For Sheet-Rubber Tire-Patching Material and Tire-Repair Kits.
Claims use since July 1, 1928.

Ser. No. 269,559. WESTERN STATES MFG. CO., Sioux City, Iowa. Filed July 13, 1928.

WESTERN WELD

Applicant claims ownership of registered Trade-Mark No. 206,346, issued Dec. 1, 1925.
For Valve Pads for Pneumatic Tires, Fan Belts, Tube and Casing Patches, Rubber Interliners for Pneumatic Tires, Tire Plugs, Tire Boots, and Inner Tubes.
Claims use since November, 1926, on valve pads and boots; on inner tubes beginning Apr. 30, 1927; and on fan belts, tube and casing patches, rubber interliners, and tire plugs since February, 1928.

Ser. No. 270,233. BRAKE EQUIPMENT AND SUPPLY COMPANY, Chicago, Ill. Filed July 27, 1928.



For Repair Parts for Air-Brake Equipment—Namely, Piston Rings and Gaskets.
Claims use since Feb. 1, 1923.

Ser. No. 270,267. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed July 27, 1928.

USTEX

For Inner Tubes for Tires.
Claims use since July 17, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 262,327. JAMES K. POLK, INCORPORATED, Atlanta, Ga. Filed Feb. 27, 1928.



No claim is made herein to the word "Perfection" apart from the mark shown in the drawing.
For Phonographs, Phonograph Records, Phonograph Needles, Phonograph Replacement Parts, Phonograph Mainsprings, and Phonograph Accessories Consisting of Phonograph Tone Arms, Phonograph Reproducers, Phonograph Turntables, Phonograph Winding Keys, Phonograph Spring Motors, and Parts Necessary to Repair Phonograph Mainspring Motors.
Claims use since Dec. 15, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 264,251. T. PAUL MÖBIUS, Erlangen, near Nuremberg, Germany. Filed Apr. 3, 1928.

Obiu

For Pencil Sharpeners.
Claims use since Aug. 5, 1927.

Ser. No. 267,524. WILLIAM WOOLLEY, Holborn, London, England. Filed June 5, 1928.

FLEXA

For Index Cards.
Claims use since Sept. 19, 1924.

Ser. No. 268,425. A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa. Filed June 21, 1928.

LAIDMARK

For Blank Paper, Translucent Paper, Coated Book Paper, Box Paper, Cover Paper, Calendar-Stock Paper, Paper for Mounting Photographic Prints, and Paper for Greeting Cards.
Claims use since Sept. 20, 1927.

CLASS 38.

Prints and Publications.

Ser. No. 270,071. JEAN B. DE BELTRAND, New York, N. Y. Filed July 24, 1928.

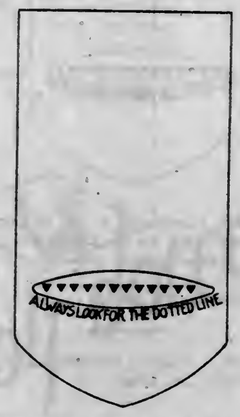
The Biggest Thing in Your Life
NATURAL-WAY
SELLING
ART-SCIENCE-PHILOSOPHY-PSYCHOLOGY-

For Magazine.
Claims use since July 20, 1928.

CLASS 39.

Clothing.

Ser. No. 231,403. ROLLINS HOSIERY MILLS, Des Moines, Iowa. Filed May 10, 1926.



The trade-mark consists of a line of gold dots and the words "Always Look for the Dotted Line." The drawing is lined to indicate gold color.
For Hosiery.
Claims use since May 6, 1926.

Ser. No. 231,405. ROLLINS HOSIERY MILLS, Des Moines, Iowa. Filed May 10, 1926.



The mark consists of a line of green dots and the words "Always Look for the Dotted Line." The drawing is lined to indicate green color.
For Hosiery.
Claims use since May 6, 1926.

Ser. No. 233,847. ROLLINS HOSIERY MILLS, Des Moines, Iowa. Filed June 28, 1926.



The trade-mark consists of a line of purple dots and the words "Always Look for the Dotted Line." The drawing is lined to indicate purple color.
For Hosiery.
Claims use since May 6, 1926.

Ser. No. 240,781. GIMBEL BROTHERS, INC., New York, N. Y. Filed Nov. 30, 1926.

JEUNETTE

For Women's Dresses, Coats, Suits, and Sweaters.
Claims use since Aug. 1, 1926.

Ser. No. 248,932. SALLY FROCKS, INC., Chicago, Ill. Filed May 12, 1927.

Sally

For Ladies' and Girls' Frocks and Dresses.
Claims use since Apr. 24, 1926.

Ser. No. 251,298. CATALINA HATS, INC., San Francisco, Calif. Filed June 29, 1927.

Pasadena

No claim is made to the exclusive right to "Pasadena" as a designation of geographical location.
For Ladies' and Misses' Hats.
Claims use since June 14, 1927.

Ser. No. 252,845. E. H. HORWOOD & Co., Hoboken, N. J., and New York, N. Y. Filed Aug. 1, 1927.

"LITTLE BEAUTY"

For Sleeping Garments Comprising at Present Pajamas and Nightgowns of Textile Fabrics.
Claims use since about July 23, 1924.

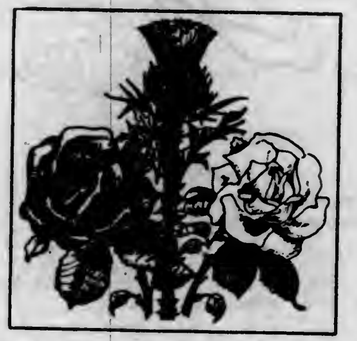
Ser. No. 256,736. I. MILLER & SONS, INC., Long Island City, N. Y. Filed Oct. 28, 1927. Under section 5b of the act of 1905, as amended in 1920.

I.MILLER

For Women's and Misses' Gloves of Leather, Fabric, and/or Combinations Thereof; Hosiery, Hats; Shoes, Slippers, and Boots Made of Leather, Rubber, Fabric, Leather,

and Rubber, Leather and Fabric or Rubber and Fabric; Overshoes, Spats, Heels, and Shoe Findings—Namely, Heels, Inner and Outer Soles, Uppers, Tongues, and Toe Caps.
Claims use since June 1, 1892, as to shoes, slippers, and boots; on overshoes, spats, heels, and shoe findings—namely, heels, inner and outer soles, uppers, tongues, and toe caps—since 1922; and on gloves, hosiery, and hats since June 20, 1927.

Ser. No. 262,842. COHEN & WILKS, LIMITED, Cheetham, England. Filed Mar. 9, 1928.



For Ladies' and Gent's Rainproof Coats, Topcoats, and Topcoats Lined with a Coating of Rubber; Also Men's and Youths' Suits and Sports Clothing—Namely, Flannel Trousers, Flannel Suits, Blazers, and Plus-Four Suits; Also Evening Dress Suits.
Claims use since Nov. 19, 1927.

Ser. No. 263,314. G. W. GOMERSALL, Philadelphia, Pa. Filed Mar. 17, 1928.

GOMMY
MEN'S WEAR OF DISTINCTION

Applicant disclaims the words "Men's Wear of Distinction" except as associated with said mark.
For Men's Clothing and Haberdashery—Namely, Men's Suits; Men's Coats of Cloth, Leather, and Rubber; Raincoats, Dress and Negligee Shirts; Neckties of Knitted, Netted, and Textile Fabric; Gloves of Both Cloth and Leather; Undershirts, Underdrawers, and Union Suits of Both Cotton, Woolen, and Silk Knitted, Netted, and Textile Fabrics; Pajamas of Knitted, Netted, and Textile Fabrics; Bath Robes and Lounging Robes of Cotton, Woolen, and Silk Knitted, Netted, and Textile Fabrics; Socks of Silk, Wool, and Cotton Knitted, Netted, and Textile Fabrics; Hats, Both of Straw and Felt; Smoking Jackets, Cloth Caps; Mufflers of Cotton, Woolen, and Silk Knitted, Netted, and Textile Fabrics; Collars, Sweaters; Blazers of Wool, Cotton, Camel's Hair Knitted, Netted, and Textile Fabrics.
Claims use since Dec. 20, 1920.

Ser. No. 263,401. HOOD RUBBER COMPANY, Watertown, Mass. Filed Mar. 19, 1928.

Flexover

For Rubber Boots and Shoes, Rubber Overshoes, Rubber-Soled Canvas Shoes.
Claims use since Jan. 16, 1928.

Ser. No. 263,876. LITTLE SISTER COATS, INC., New York, N. Y. Filed Mar. 28, 1928.

Little Sister

For Children's Coats, Hats, Dresses, Leggings, and Muffs.
Claims use since August, 1923, on children's coats; since July, 1925, on children's hats, children's dresses, and children's leggings; and since March, 1927, on children's muffs.

Ser. No. 263,957. LUCILE STAFF, INC., New York, N. Y. Filed Mar. 29, 1928.

Lucile Staff
RAINPRUF
GUARANTEED TWO YEARS
Styled by and distributed in the United States exclusively by
LUCILE STAFF, INC.
22 EAST 56 NEW YORK

Applicant owns registration No. 202,177. "Rainpruf" is disclaimed apart from the mark as shown. The words "Guaranteed Two Years, Styled by and Distributed in the United States Exclusively by; 22 East 56 New York" are disclaimed apart from the mark as shown.
For Men's, Women's, and Children's Coats and Hats.
Claims use since Mar. 16, 1928.

Ser. No. 264,836. OGUS, RABINOVICH & OGUS, INC., New York, N. Y. Filed Apr. 14, 1928.

Joy dorcey

Exclusive use of the name "Joy dorcey" is disclaimed apart from the mark shown in the drawing.
For Women's, Children's, and Misses' Hats.
Claims use since Mar. 13, 1928.

Ser. No. 264,837. OGUS, RABINOVICH & OGUS, INC., New York, N. Y. Filed Apr. 14, 1928.

JR Janyth Roy

The name "Janyth Roy" is disclaimed apart from the mark as shown in the drawing.
For Women's, Children's, and Misses' Hats.
Claims use since Mar. 13, 1928.

Ser. No. 264,838. OGUS, RABINOVICH & OGUS, INC., New York, N. Y. Filed Apr. 14, 1928.

Nyoro HATS

Exclusive use of the word "Hats" is disclaimed apart from the mark shown in the drawing.
For Women's, Children's, and Misses' Hats.
Claims use since Mar. 13, 1928.

Ser. No. 265,260. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Apr. 23, 1928.

CERTIFIED QUALITY

The words "Certified Quality" do not form a part of the registration sought apart from the mark shown in the drawing.
For Women's and Misses' Coats and Dresses.
Claims use since Feb. 13, 1928.

Ser. No. 265,341. OGUS, RABINOVICH & OGUS, INC., New York, N. Y. Filed Apr. 24, 1928.

Fantrey



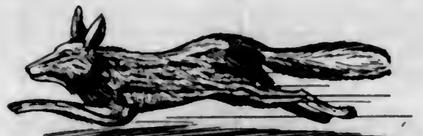
For Women's, Children's, and Misses' Hats.
Claims use since Mar. 13, 1928.

Ser. No. 265,342. OGUS, RABINOVICH & OGUS, INC., New York, N. Y. Filed Apr. 24, 1928.

Jean d'Oro Paris

Exclusive use of the word "Paris" is disclaimed apart from the mark shown on the drawing.
For Women's, Children's, and Misses' Hats.
Claims use since Mar. 13, 1928.

Ser. No. 266,356. CULLUM & BOREN COMPANY, Dallas, Tex. Filed May 14, 1928.



For Men's and Boys' Hunting Coats, Hunting Pants, Hunting Vests, Football Trousers, Basket-Ball Uniforms, Baseball Uniforms, Track Pants, and Track Shirts.
Claims use since Feb. 1, 1926.

Ser. No. 266,671. MINNIE LAYTON, and doing business as Laytonet Manufacturing Co., San Francisco, Calif. Filed May 19, 1928.

LAYTONET

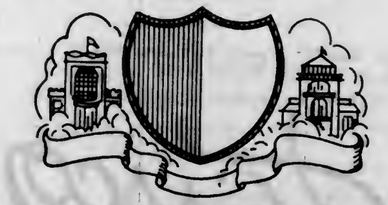
For Ladies' Headgear Comprising Marcel-Wave Protectors, Night Caps, and Dust Caps.
Claims use since Feb. 1, 1928.

Ser. No. 267,769. L. J. & C. D. JAFFEE INC., New York, N. Y. Filed June 9, 1928.

By Appointment COLLEGE HALL

The lining on the drawing indicates red.
For Men's, Women's, and Children's Gloves of Leather or Fabric, Pajamas, Lumber Jackets, Hosiery, Hats, Caps, Shoes and Slippers of Leather or Fabric, Sweaters, Coats, Aviation Coats, Fur Coats, Fur-Lined Coats, Overcoats, Suits, and Knickers; Men's and Boys' Negligee and Outer Shirts, Collars, Neckties, Union Suits, Drawers, Trousers, Bath, Lounging, and Smoking Robes; Women's Dresses, Chemises, Bloomers, Brassières, Scarfs, and Shirt Waists.
Claims use since Apr. 14, 1928.

Ser. No. 267,770. L. J. & C. D. JAFFEE INC., New York, N. Y. Filed June 9, 1928.



For Men's, Women's, and Children's Gloves of Leather or Fabric, Pajamas, Lumber Jackets, Hosiery, Hats, Caps, Shoes, and Slippers of Leather or Fabric, Sweaters, Coats, Aviation Coats, Fur Coats, Fur-Lined Coats, Overcoats, Suits, and Knickers; Men's and Boys' Negligee and Outer Shirts, Collars, Neckties, Union Suits, Drawers, Trousers, Bath, Lounging, and Smoking Robes; Women's Dresses, Chemises, Bloomers, Brassières, Scarfs, and Shirt Waists.
Claims use since Apr. 14, 1928.

Ser. No. 267,842. LAND SHIRT CO., Orange, N. J. Filed June 11, 1928.

Mutual

For Men's and Boys' Dress and Negligee Shirts.
Claims use since May 15, 1928.

Ser. No. 267,982. HARRY A. MARANS, New York, N. Y. Filed June 13, 1928.

HARVEST MOON

For Slips, Bloomers, Step-Ins, Nightgowns, and Chemises for Misses and Women of Knitted and Textile Fabrics.
Claims use since about May, 1928.

Ser. No. 268,160. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed June 16, 1928.

LONSHEEN

For Negligee Shirts.
Claims use since about Mar. 1, 1924.

Ser. No. 268,274. THE FEDERAL KNITTING MILLS COMPANY, Cleveland, Ohio. Filed June 19, 1928.

FEDERAL AVIO CAP Acclaimed Everywhere

The drawing is lined to indicate the colors red and green. Applicant disclaims the right to the exclusive use of the words "Cap" and "Acclaimed Everywhere."
For Caps for Children.
Claims use since May 11, 1928.

Ser. No. 268,466. LEOPOLD B. SCHWAB, Newark, N. J. Filed June 21, 1928.

No-Name But Quality HOSIERY

No claim is made to the words "But Quality" and "Hosiery" apart from the mark shown in the drawing.
For Hosiery.
Claims use since Apr. 14, 1928.

Ser. No. 268,772. CHARLESTON MANUFACTURING CO., Charleston, W. Va. Filed June 28, 1928.

BIG ANCHOR

For Overalls, Work Jackets, and Coveralls.
Claims use since January, 1913.

Ser. No. 269,206. S. RAUH & COMPANY, New York, N. Y. Filed July 6, 1928.

RAU - ZIP

For Leggings.
Claims use since April, 1926.

Ser. No. 269,381. AMAZON KNITTING COMPANY, Muskegon, Mich. Filed July 11, 1928.

ESTATE

For Knitted Underwear for Men, Women, and Children.
Claims use since March, 1928.

Ser. No. 269,382. AMAZON KNITTING COMPANY, Muskegon, Mich. Filed July 11, 1928.

HARBOR

For Knitted Underwear for Men, Women, and Children.
Claims use since March, 1928.

Ser. No. 269,401. NATH'L FISHER & Co., New York, N. Y. Filed July 11, 1928.

WALKMORE
ARCH REFORMER
SHOES

The words "Arch Reformer" and "Shoes" are disclaimed apart from the mark as shown.
For Shoes Made Wholly or in Part of Leather.
Claims use since May 3, 1928.

Ser. No. 269,443. BENJAMIN & JOHNES, Newark, N. J. Filed July 12, 1928.

Solo-ette

For Corset Brassière Combinations.
Claims use since Apr. 17, 1928.

Ser. No. 269,451. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed July 12, 1928.

NO-MARK
NO-MARK

For Rubber Soles and Heels, and Rubber Footwear Consisting of Tennis or Other Athletic Shoes, Arctics, Overshoes or Rubbers, and Boots.
Claims use since June 1, 1928.

Ser. No. 269,465. FINERY SILK STOCKING CO., INC., New York, N. Y. Filed July 12, 1928.

Fissco

For Hosiery.
Claims use since Apr. 15, 1928.

Ser. No. 269,474. KING'S PALACE, Washington, D. C. Filed July 12, 1928.

Slendabilt

For Ladies' Coats, Suits, Dresses, and Skirts.
Claims use since June 26, 1928.

Ser. No. 269,644. DURAND SHOE CO., Boston, Mass. Filed July 16, 1928.

Nu Walk

For Leather Shoes.
Claims use since Jan. 20, 1927.

Ser. No. 269,662. HUTT & WASSERMAN, INC., New York, N. Y. Filed July 16, 1928.



No registration rights are claimed in the words "Styled for Young Men" except in association with the other features of the mark.
For Men's Hats and Caps.
Claims use since June 25, 1928.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 265,879. BARTONS BIAS COMPANY, New York, N. Y. Filed May 4, 1928.



No claim is made to the word "Bias" apart from the mark shown in the drawing. The lining in the center of the medallion indicates purple, and the lining shown on the border indicates green.
For Bias Bindings, Bias Fagoting Braid, Elastic, Shoulder Straps, Drapery and Upholstering Trimmings, Blanket and Lamp-Shade Bindings, All of Narrow Fabric.
Claims use since Aug. 27, 1926.

Ser. No. 266,452. ART BUTTON NOVELTY M'F'G. CO., INC., New York, N. Y. Filed May 16, 1928.

Snapon Buttons

No claim is made to the use of the words "Snapon Buttons," except in combination with the trade-mark shown.
For Buttons—Namely, Ornamental Buttons of Glass or Other Breakable Material Forming Elements of Snap Fasteners, Usually Made in Two Parts, and Particularly Suitable for Use on Clothing.
Claims use since Apr. 1, 1928.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 245,690. BEAR MILL MANUFACTURING COMPANY, INC., New York, N. Y. Filed Mar. 14, 1927.



For Cotton, Silk, or Mixed Silk and Cotton Goods.
Claims use since 1870.

Ser. No. 255,914. A. S. HERRMANN, INC., New York, N. Y. Filed Oct. 11, 1927.

Leander

For Face Cloths; Bath Mats; Bedspreads of Cotton, Terry, and Chenille; and Table Linens, Towels, Sheets, Pillowcases, Bedspreads, of Linen.
Claims use since July 15, 1927.

Ser. No. 262,507. BROAD BROOK COMPANY, Broad Brook Conn. Filed Mar. 2, 1928.

ASTRANAP

For Overcoating Fabrics of Wool Sold in the Piece.
Claims use since Jan. 11, 1928.

Ser. No. 263,114. AMERICAN WORSTED MILLS, Esterly, Pa. Filed Mar. 14, 1928.

GRATEX

For Cotton Woven Cloth.
Claims use since Feb. 26, 1928.

Ser. No. 263,726. ROBINSON & GOLLUBER, New York, N. Y. Filed Mar. 24, 1928.

DAISY BELL

For Cotton Piece Goods.
Claims use since Mar. 15, 1928.

Ser. No. 266,021. COBB & JENKINS, New York, N. Y. Filed May 7, 1928.

C&J's
LUSTRAH

For Raised-Pile Woolen Fabric Woven with a Brushed Surface.
Claims use since about April, 1925.

Ser. No. 267,622. WERTHEIMER RIBBON CORPORATION, New York, N. Y. Filed June 6, 1928.



No claim is herein made for the exclusive use of the term "Chiffon" apart from the other features of the mark as shown.
For Chiffon in the Piece and Ganze Ribbon in the Piece, Both the Chiffon and Ribbon Being of Silk, Artificial Silk, Silk and Cotton, or Artificial Silk and Cotton.
Claims use since June 1, 1928.

Ser. No. 268,677. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 26, 1928.

ROBANESE

For Fabrics in the Piece Made Wholly or Partially of Cellulose Derivatives.
Claims use since about June 22, 1928.

Ser. No. 268,981. HEILIG & FLOREA, INC., New York, N. Y. Filed July 2, 1928.

SIMPLEX

For Cotton-Cloth Fabric in the Piece from Which Gloves May be Made.
Claims use since Mar. 1, 1928.

Ser. No. 269,158. SPENCE-BRYSON INC., New York, N. Y. Filed July 5, 1928.



For Handkerchiefs.
Claims use since June 1, 1927.

Ser. No. 269,472. KATIMS-WEINER CORP., New York, N. Y. Filed July 12, 1928.

Ray-Tex

For Textile Fabrics Made of Cotton and Silk.
Claims use since Jan. 3, 1928.

Ser. No. 269,577. CENTURY RIBBON MILLS, INC. (ERNEST & HERMAN LEVY), New York, N. Y. Filed July 14, 1928.

NO TRUMP

For Ribbons of Silk, Artificial Silk, Rayon, Cotton, and Mixtures Thereof.
Claims use since July 2, 1928.

Ser. No. 269,606. ROBINSON & GOLLUBER, New York, N. Y. Filed July 14, 1928.

SPORTSHEEN

For Piece Goods of Rayon, Silk and Satin Lingerie, and Slip Material.
Claims use since June 19, 1928.

Ser. No. 270,554. NEW YORK MERCHANDISE CO., INC., New York, N. Y. Filed Aug. 3, 1928.

Debutante

For Hair Nets.
Claims use since July 18, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 269,716. CHICKASAW THREAD COMPANY, Shelby, N. C. Filed July 17, 1928.

CHICKASAW

For Thread and Yarn.
Claims use since about Oct. 1, 1924.

Ser. No. 270,000. THE VISCOSE COMPANY, Marcus Hook, Pa. Filed July 21, 1928.

DULENZA

For Rayon Yarn.
Claims use since May 25, 1928.

Ser. No. 270,738. BRUCKS AND PEYSER, New York, N. Y. Filed Aug. 8, 1928.

LAYETTE

For Thread and Yarn.
Claims use since June, 1926.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 242,526. S. DONIGER & CO. INC., New York, N. Y. Filed Jan. 8, 1927.

KROMED PLATE

No claim is made to the exclusive use of the words "Kromed Plate" apart from the mark shown on the drawing.
For Surgical Instruments.
Claims use since July, 1926.

Ser. No. 260,133. ANDRÉ PERUGIA, Paris, France. Filed Jan. 14, 1928.

Perugia

The trade-mark is the essential part of applicant's signature.
For Toilet Atomizers.
Claims use since 1923.

Ser. No. 264,777. THE REALISTIC PERMANENT WAVE MACHINE CO., Cleveland, Ohio. Filed Apr. 13, 1928.

Realistic

For Permanent-Waving Machines and Accessories and Equipment Thereof.
Claims use since May 14, 1926.

Ser. No. 268,885. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y. Filed June 29, 1928.

Tri-Dent

For Dental-Appliance Assemblies Sold as Units—Namely, Fountain Cuspidors, Atomizers, Water Heaters, Dental Engines, Spotlights, Electric Fans, and Dental Instrument Tables.
Claims use since Dec. 21, 1922.

Ser. No. 268,886. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y. Filed June 29, 1928.



For Dental-Appliance Assemblies Sold as Units—Namely, Fountain Cuspidors, Atomizers, Water Heaters, Dental Engines, Spotlights, Electric Fans, and Dental Instrument Tables.

Claims use since Dec. 21, 1922.

Ser. No. 269,581. FRASER VALVO CORPORATION, Newark, N. J. Filed July 14, 1928.



The word "Nurser" is not claimed apart from the other features of the mark.

For Nursing Bottles.

Claims use since Jan. 2, 1928.

Ser. No. 269,711. AXEL RUDOLF BLOMBERG, Stockholm, Sweden, Filed July 17, 1928.

RADICURA

For Radioactive Cloth, Radioactive Textile Fabric, and Radioactive Compresses.

Claims use since February, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 242,402. EMERICK WESTER, Easton, Pa. Filed Jan. 5, 1927.

SCOTT MOUNTAIN SPRING WATER

The words "Spring Water" are disclaimed apart from the mark shown in the drawing.

For Spring Water.

Claims use since Oct. 15, 1924.

Ser. No. 254,139. JUMBO LEMON COMPANY, Hamilton City, Calif. Filed Aug. 30, 1927.

JUMBO

For Fruit Juices Used for the Making of Soft Beverages.

Claims use since May 24, 1924.

Ser. No. 258,751. JOHN W. LANGDON, Walla Walla, Wash. Filed Dec. 10, 1927.



The geographical word "Klickitat," the word "Mineralale," and the particular design of border line shown in the drawing are herewith disclaimed.

For Mineral Waters, Carbonated Mineral Waters, and Carbonated Waters, Naturally or Otherwise Flavored.

Claims use since Oct. 1, 1927.

Ser. No. 267,502. NANNT, INC., Long Island City, N. Y. Filed June 5, 1928.

Pick-me-up

For Compound of Combined, Concentrated Ingredients for Making a Nonalcoholic, Noncereal, Maltless Beverage.

Claims use since Apr. 30, 1928.

Ser. No. 267,973. LOS ANGELES BREWING CO., Los Angeles, Calif. Filed June 13, 1928.

EASTSIDE

For Nonalcoholic, Noncereal Maltless Beverages Sold as Soft Drinks and Syrups, Extracts, and Concentrates for Making the Same.

Claims use since January, 1906.

Ser. No. 270,135. JOHN G. METKE, doing business as Queen City Specialty Co., Buffalo, N. Y. Filed July 25, 1928.

KIDDIE POP

No claim is made to the word "Pop" apart from the mark shown.

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Juices or Syrups for Making the Same.

Claims use since July 11, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 248,552. THE C. CALLAHAN COMPANY, Lafayette, Ind. Filed May 6, 1927.

MONEY-BACK

For Canned Fruits, Canned Vegetables, Canned Oysters, and Canned Fish, Apple Butter, Jellies, Fruit Preserves, Wheat Flour, Mixed Flour, Canned Evaporated Milk, Canned Soups, Catsup, Chili Sauce, Cereals—Namely, Rolled Oats, Corn Flakes, Wheat Flakes, Prepared Dried Wheat, Rice, Tapioca, Sago, and Barley in Package Form, Cheese, Cocoa, Cocoanut, Prepared, Dried, and Sweetened in Package Form and in Moist Form in Tin Cans, Cornstarch, Corn Meal, Dried Fruits, Food-Flavoring Extracts, Jelly Powders, Spices, Corn Syrup Mixed with Sugar Syrup, Straight Sugar Syrup, Maple Syrup, and Maple Syrup Mixed with Sugar; Molasses, Olives, Pickles, Macaroni, Spaghetti, Coffee, Tea, and Vinegar, Canned Fruits for Salad, Peanut Butter, Chili Con Carne, Canned Vegetables for Soup, Canned Pork and Beans, Canned Tomato Purée, Tapioca, Birdseed, Canned Berries, and Canned Apple Sauce, Prepared Mustard.

Claims use since May 1, 1905.

Ser. No. 250,076. CARL T. FUND, doing business as Fund's and C. T. Fund, Chicago, Ill. Filed June 6, 1927.



For Candy.

Claims use since May 19, 1927.

Ser. No. 251,492. DOUD MILLING COMPANY, Manning, Iowa. Filed July 5, 1927.



FIDELITY

For Wheat Flour, Breakfast Cereal, Pancake Flour.

Claims use since 1898 on wheat flour; March, 1924, pancake flour; June 18, 1927, breakfast cereal.

Ser. No. 252,666. STERLING WHOLESALE GROCERY CO., Sterling, Ill. Filed July 28, 1927.

MOTHER'S BEST

The word "Best" does not form a part of the registration sought apart from the mark shown in the drawing.

For Canned Fruits—Namely, Sliced Pineapple, Crushed Pineapple, Yellow Cling Peaches, Yellow Free Peaches, and Apricots; Preserved Fruits—Namely, Apple Pectin Fruit Preserves, Apple Butter, Fruit Jams, Maraschino Style Cherries; Canned Vegetables—Namely, Sweet Corn, Tomatoes, Peas, Sauerkraut, Beets, and Spinach; Canned Fish—Namely, Salmon; Jellies—Namely, Pure Fruit Jellies and Apple Pectin Jellies; Canned Soup—Namely, Tomato Soup; Olives; Dried Fruits; Molasses; Peanut Butter; and Cocoa; Canned Pork and Beans, and Biscuits.

Claims use since Aug. 4, 1924.

Ser. No. 257,186. OTTO ROTH & COMPANY INC., New York, N. Y. Filed Nov. 7, 1927.

STAG SALAMI BRAND

Applicant does not claim the words "Salami" or "Brand" apart from the mark as shown.
For Dried Sausage.
Claims use since about Apr. 1, 1927.

Ser. No. 257,188. OTTO ROTH & CO. INC., New York, N. Y. Filed Nov. 7, 1927.

ORO SALAMI BRAND

Applicant does not claim the words "Salami" or "Brand" apart from the mark as shown.
For Dried Sausage.
Claims use since about Apr. 1, 1927.

Ser. No. 257,189. OTTO ROTH & COMPANY INC., New York, N. Y. Filed Nov. 7, 1927.

SOLA SALAMI BRAND

Applicant does not claim the words "Salami" or "Brand" apart from the mark as shown.
For Dried Sausage.
Claims use since about Apr. 1, 1927.

Ser. No. 257,426. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio. Filed Nov. 11, 1927.

NUGA

The word "Nuga" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Candy.
Claims use since Aug. 1, 1927.

Ser. No. 259,052. CREAM DOVE MFG. CO., INC., Binghamton, N. Y. Filed Dec. 17, 1927.

CREAM DOVE

For Cooking Compounds Composed of Cottonseed Oil, Oleostearine, and Beef Fats; Salad Dressing, and Prepared Mustard.
Claims use since January, 1906.

Ser. No. 259,819. THE PANGO MILK CHOCOLATE CO., Toledo, Ohio. Filed Jan. 7, 1928.

WINONA



For Evaporated Milk.
Claims use since Dec. 15, 1926.

Ser. No. 259,924. RAPID CITY PACKING COMPANY, Rapid City, S. Dak. Filed Jan. 10, 1928.



No registration rights are claimed in the word "Brand" except in association with the other features of the mark.
For Smoked Meats—Namely, Hams, Bacon, Picnics, and Bacon Nuggets; Cooked Meats, Smoked and Fresh—Namely, Boiled Hams, Weiners, Frankfurters, Bologna, Minced Ham, Liver Sausage, Headcheese, Blood Sausage, Summer Sausage, Dried Beef, and Lunch Ham; Fresh Meats—Namely, Beef, Pork, Mutton, and Poultry; and Lard.
Claims use since August, 1926.

Ser. No. 261,642. NEW SWEDEN POTATO GROWERS, Idaho Falls, Idaho. Filed Feb. 13, 1928.

SELECTED IDAHO NEW SWEDEN TWIN BUTTES SUPREME RUSSET POTATOES NEW SWEDEN POTATO GROWERS INC.

The words "Selected, Potatoes, Russet, Idaho, Supreme, New Sweden, Potato, Growers, Inc.," shown on the drawings, are specifically disclaimed.
For Potatoes in Their Natural State.
Claims use since Sept. 15, 1927.

Ser. No. 262,356. J. W. GLENN, Buffalo, N. Y. Filed Feb. 28, 1928.

WOWEE

For Chewing-Gum Whistles.
Claims use since November, 1927.

Ser. No. 263,321. KELLOGG COMPANY, Battle Creek, Mich. Filed Mar. 17, 1928.

RICE KRISPIES

No right of exclusive use of the word "Rice" apart from the mark as shown in the drawing is claimed herein.
For Cereal Breakfast Food.
Claims use since Feb. 29, 1928.

Ser. No. 264,260. RADIANCE LIMITED, Doncaster, England. Filed Apr. 3, 1928.

RADIANCE

For Chocolate and Sweetmeats.
Claims use since September, 1919.

Ser. No. 265,197. COACHELLA VALLEY GRAPE GROWERS ASSN., Coachella, Calif. Filed Apr. 21, 1928.

Abronia

For Fresh Grapes.
Claims use since June, 1924.

Ser. No. 265,405. REICHARDT COCOA & CHOCOLATE CO., INC., New York, N. Y. Filed Apr. 25, 1928.

Reichardt CHOCOLATE Reichardt's NAPS Reichardt

No claim is made to the word "Chocolate." The drawing is lined for the color red.
For Candy.
Claims use since May, 1926.

Ser. No. 265,447. PRINCESS CONFECTIONERY CO., doing business as Fox Candy Co., Milwaukee, Wis. Filed Apr. 26, 1928.

FOX  HEAD

For Marshmallow Toppings; Chocolate Syrups for Ice Creams and Sundies; Nut Meats, Candied, Salted, and in Their Natural State; and Candies.
Claims use since Apr. 1, 1927.

Ser. No. 265,986. SAVORY BAKING COMPANY, Newark, N. J. Filed May 5, 1928.

Tickl-Taste

For Tarts and Coffee Rings.
Claims use since Apr. 24, 1928.

Ser. No. 266,138. MANTECA CANNING COMPANY, Manteca, Calif. Filed May 9, 1928.

PACKRITE

For Fresh Grapes.
Claims use since June, 1920.

Ser. No. 267,251. GLOBE GRAIN AND MILLING COMPANY, Los Angeles, Calif. Filed May 31, 1928.

WESTOLA

For Edible Oil Used as a Shortening for Frying and Baking Foods.
Claims use since 1920.

Ser. No. 267,633. THE CORNO MILLS COMPANY, East St. Louis, Ill. Filed June 7, 1928.



While the colors blue and red are shown in the drawing, they are not an essential feature of the mark.
For Horse Feeds, Poultry Feeds, Mash Feeds, Dairy Feeds, Hog Feeds, and Stock Feeds.
Claims use since 1904.

Ser. No. 267,730. WARD BAKING COMPANY, New York, N. Y. Filed June 8, 1928.



The drawing is lined to illustrate the varicolored effect, the particular colors for which the drawing is lined being red and blue. No claim is made to the words "Ward's Fine Cakes."
For Cake.
Claims use since May 23, 1924.

Ser. No. 267,731. WARD BAKING COMPANY, New York, N. Y. Filed June 8, 1928.



The drawing is lined to illustrate the varicolored effect, the particular colors for which the drawing is lined being red and blue. No claim is made to the words "Ward's Fine Cakes."
For Cake.
Claims use since May 23, 1924.

Ser. No. 267,925. J. E. BLICKENSTAFF & SONS, Modesto, Calif. Filed June 13, 1928.

TRUE-THRU

For Fresh Deciduous Fruits, Dried Fruits, Fresh Citrus Fruits, Fresh Vegetables, Fresh Cantaloupes, Fresh Honeydews, Melons, and Fresh Grapes.
Claims use since Apr. 1, 1927.

Ser. No. 268,143. DAIRY MADE ICE CREAM COMPANY, INC., Paterson, N. J. Filed June 16, 1928.



For Ice Cream.
Claims use since June, 1920.

Ser. No. 268,279. THE GINGER MINT JULEP COMPANY, Baltimore, Md. Filed June 19, 1928.



The drawings are lined to indicate green, yellow, and purple. No exclusive claim is made to the words "Ginger Mint Gum" except as associated with the other features of the mark shown in the drawing.
For Chewing Gum.
Claims use since Nov. 15, 1927.

Ser. No. 268,367. S. S. GOFFIN, also doing business as Nassau Sound Packing Co., Jacksonville, Fla. Filed June 20, 1928.

Florida Chief

For Canned Shrimp, Canned Vegetables, and Canned Fruit.
Claims use since about 1898.

Ser. No. 268,622. W. F. ZIMMERMANN, doing business as Red Wing Supply Co., Red Wing, Minn. Filed June 25, 1928.



For Malt Syrup for Food Purposes.
Claims use since June 16, 1927.

Ser. No. 268,831. WILLIAMS FRUIT COMPANY, Yakima, Wash. Filed June 28, 1928.

EATMOR

For Fresh Apples, Pears, Peaches, Prunes, and Cherries.
Claims use since August, 1919.

Ser. No. 269,029. LA FAYETTE ROLLER MILLS, La Fayette, Ga. Filed July 8, 1928.

GEORGIA BELLE

For Corn Meal, Dairy Rations, Poultry Feed, and Stock Feed.
Claims use since Jan. 12, 1926.

Ser. No. 269,193. EDWIN MAYER, doing business as Liberty Cake Company, Philadelphia, Pa. Filed July 6, 1928.



No claim is made to the word "Philadelphia" apart from the mark shown on the drawing.
For Cakes.
Claims use since May 17, 1928.

Ser. No. 269,216. THE ALLEY COMPANY, New Bedford, Mass. Filed July 7, 1928.



For Food Compound of Rice, Tapioca, and Arrowroot.
Claims use since Jan. 1, 1903.

Ser. No. 269,227. EARL FRUIT COMPANY, San Francisco, Calif. Filed July 7, 1928.

BOOTS

For Fresh Fruits—Namely, Pears, Oranges, Apples, and Cherries.
Claims use since May 24, 1928.

Ser. No. 269,250. PHILIP R. PARK, Naval Station, San Pedro, Calif. Filed July 7, 1928.

MANAMAR

For Stock and Poultry Feeds.
Claims use since Jan. 7, 1928.

Ser. No. 269,251. PHILIP R. PARK, Naval Station, San Pedro, Calif. Filed July 7, 1928.

MANAMAR



Life from the Sea

For Stock and Poultry Feeds.
Claims use since Jan. 7, 1928.

Ser. No. 269,288. GRAHAM MILL & ELEVATOR CO., Graham, Tex. Filed July 9, 1928.



For Extra High Patent Winter-Wheat Flour.
Claims use since Jan. 1, 1928.

Ser. No. 269,441. ARKADELPHIA MILLING CO., Arkadelphia, Ark. Filed July 12, 1928.



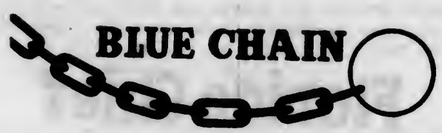
For Wheat Flour, Meal, Horse Feed, Dairy Feed, Stock Feed, and Poultry Feed.
Claims use since 1907.

Ser. No. 269,639. COTTONE BROS., INC., Brooklyn, N. Y. Filed July 16, 1928.

LORA

For Olive Oil.
Claims use since April, 1925.

Ser. No. 269,878. WOOD FRUIT COMPANY, INC., Atwater, Calif. Filed July 19, 1928.



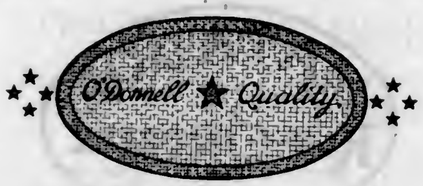
For Fresh Deciduous Fruits.
Claims use since May 1, 1928.

Ser. No. 269,879. WOOD FRUIT COMPANY, INC., Atwater, Calif. Filed July 19, 1928.



For Fresh Deciduous Fruits.
Claims use since May 1, 1928.

Ser. No. 270,258. THE O'DONNELL COMPANY, Boston, Mass. Filed July 27, 1928.



Applicant disclaims the right to the exclusive use of the word "Quality" except in combination with the other features of the trade-mark as shown in the drawing. The lining represents orange to conform to the specimen submitted, but applicant does not limit its mark to any particular color or combinations of color.
For Fresh Fish—Namely, Fillets and Dressed Haddock.
Claims use since about Sept. 1, 1925.

Ser. No. 270,358. SWIFT AND COMPANY, Chicago, Ill. Filed July 30, 1928.

FRYENE

For Frying Fat.
Claims use since Jan. 14, 1928.

Ser. No. 270,374. ALFRED GERBER, Thun, Switzerland. Filed July 31, 1928.



For Cheese of Swiss Origin.
Claims use since January, 1928.

Ser. No. 270,375. E. GREENFIELD'S SONS, Brooklyn, N. Y. Filed July 31, 1928.

Peggy Porters

The words "Peggy Porters" are written in the facsimile handwriting of Florence Chadwick.
For Chocolates and Candies.
Claims use since Oct. 2, 1926.

Ser. No. 270,412. J. SAMUEL BLUM, doing business as Blum and Company, San Francisco, Calif. Filed Aug. 1, 1928.

Tummy Yum

"HITS THE SPOT"

For Nuts and Candies.
Claims use since Oct. 1, 1927.

Ser. No. 270,519. THE SHOTWELL MFG. CO., Chicago, Ill. Filed Aug. 2, 1928.

COOK BOOK

For Marshmallows.
Claims use since Feb. 1, 1928.

Ser. No. 270,603. OCONOMOWOC CANNING CO., Oconomowoc, Wis. Filed Aug. 4, 1928.

PEE-WEE

For Canned Vegetables.
Claims use since July 26, 1928.

Ser. No. 270,639. MANBECK BAKING COMPANY, Lemoyne, Pa. Filed Aug. 6, 1928.

SILVER FLAKE

For Bread.
Claims use since Apr. 30, 1928.

Ser. No. 270,646. OCEANIC SALES COMPANY, Seattle, Wash. Filed Aug. 6, 1928.

SPRINGKIST

For Canned Salmon.
Claims use since June 14, 1928.

Ser. No. 270,647. PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Filed Aug. 6, 1928.

TRUMP

For Cookies.
Claims use since June 25, 1928.

Ser. No. 270,719. RIALTO ORANGE CO., Rialto, Calif. Filed Aug. 7, 1928.

WESTERN QUEEN

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Oct. 15, 1913.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 251,851. NOMA ELECTRIC CORPORATION, New York, N. Y. Filed July 11, 1927.

NOMA

For Christmas-Tree Holders.
Claims use since about May 23, 1927.

Ser. No. 262,567. JOSEPH A. KAPLAN, New York, N. Y. Filed Mar. 3, 1928.

MATADOR
RUG-O-RUBBER

The term "Rug O'Rubber" is hereby disclaimed.
For Rubber Bath Mats.
Claims use since Oct. 8, 1927.

Ser. No. 267,942. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed June 13, 1928.

DU PONT
VENTUBE

For Air-Tight Fabrics, Water-Tight Fabrics, Acid-Resistant Fabrics, and Heat-Resistant Fabrics.
Claims use since Aug. 19, 1921.

Ser. No. 268,523. WHITE LUGGAGE CO., INC., New York, N. Y. Filed June 22, 1928.

REVOLVO

For Coat Hangers.
Claims use since May 15, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 11, 1928.

246,470. COTTON BATTING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed April 2, 1928. Serial No. 264,208. PUBLISHED JUNE 5, 1928. Class 1.

246,471. BRACELETS. THE HADLEY COMPANY, INC., Providence, R. I.
Filed April 2, 1928. Serial No. 264,165. PUBLISHED JUNE 19, 1928. Class 28.

246,472. JEWELRY CONSISTING OF FINGER RINGS, BROOCHES, BRACELETS, AND OTHER ITEMS OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. D. & I. JEWELRY MFG. CO., INC., New York, N. Y.
Filed April 2, 1928. Serial No. 264,151. PUBLISHED JUNE 19, 1928. Class 28.

246,473. CHILDREN'S COATS, DRESSES; SHOES MADE OF LEATHER, RUBBER, AND FABRICS AND COMBINATIONS OF THE SAME; HATS AND CAPS. CHICAGO MAIL ORDER COMPANY, Chicago, Ill.
Filed April 2, 1928. Serial No. 264,143. PUBLISHED JUNE 26, 1928. Class 39.

246,474. SKIN AND COMPLEXION LOTION. CHARLES L. JOY & COMPANY, doing business as Joy Drug Stores, Boise, Idaho.
Filed March 31, 1928. Serial No. 264,109. PUBLISHED JUNE 19, 1928. Class 6.

246,475. HOSIERY. GLEN ALPINE KNITTING MILLS, INC., Glen Alpine, N. C.
Filed March 31, 1928. Serial No. 264,095. PUBLISHED JUNE 5, 1928. Class 39.

246,476. INCUBATORS AND BROODERS. DREW LINE COMPANY, Fort Atkinson, Wis.
Filed March 31, 1928. Serial No. 264,088. PUBLISHED JUNE 5, 1928. Class 50.

246,477. BOTTLE CAPS. CUPPLES COMPANY, MANUFACTURERS, St. Louis, Mo.
Filed March 31, 1928. Serial No. 264,083. PUBLISHED JUNE 12, 1928. Class 50.

246,478. COUGH MEDICINES. HALLIE L. SAMPLE, Muncie, Ind.
Filed March 30, 1928. Serial No. 264,051. PUBLISHED JUNE 19, 1928. Class 6.

246,479. TABLE GAMES PLAYED WITH PIECES. QUADRO GAMES CO., Oklahoma City, Okla.
Filed March 30, 1928. Serial No. 264,049. PUBLISHED JUNE 19, 1928. Class 22.

246,480. ELECTRICAL COFFEE AND TEA PERCOLATORS. METAL WARE CORPORATION, Two Rivers, Wis.
Filed March 30, 1928. Serial No. 264,035. PUBLISHED JUNE 19, 1928. Class 21.

246,481. ELECTRIC CONTROLLERS. THE CLARK CONTROLLER COMPANY, Cleveland, Ohio.
Filed March 30, 1928. Serial No. 264,016. PUBLISHED JUNE 26, 1928. Class 21.

246,482. WATCHMEN'S TIME DETECTORS, WATCH CLOCKS, AND WATCHMEN'S CLOCKS. DETEX WATCHCLOCK CORPORATION, New York, N. Y.
Filed March 29, 1928. Serial No. 263,955. PUBLISHED JUNE 19, 1928. Class 27.

246,483. PREPARATIONS IN THE FORM OF WAX, POWDER, AND LIQUID FOR USE FOR ERADICATING SUPERFLUOUS HAIR. CORRINE HOWARD, Oakland, Pittsburgh, Pa.
Filed March 29, 1928. Serial No. 263,947. PUBLISHED JUNE 26, 1928. Class 6.

246,484. MISSES' AND CHILDREN'S LEATHER SHOES. A. N. WOLF SHOE COMPANY, Denver, Pa.
Filed March 28, 1928. Serial No. 263,909. PUBLISHED JUNE 19, 1928. Class 39.

246,485. FLAVORED MILK DRINK. THE TELLING BELLE VERNON COMPANY, Cleveland, Ohio.
Filed March 28, 1928. Serial No. 263,899. PUBLISHED JUNE 19, 1928. Class 46.

246,486. PHONOGRAPH APPARATUS FOR RECORDING AND REPRODUCING SOUNDS. PLAZA MUSIC COMPANY, New York, N. Y.
Filed March 28, 1928. Serial No. 263,890. PUBLISHED JUNE 19, 1928. Class 36.

246,487. SALVE FOR HEMORRHOIDS. DAYTON W. LAUBACH, Philadelphia, Pa.
Filed March 13, 1928. Serial No. 263,092. PUBLISHED JUNE 26, 1928. Class 6.

246,488. COAL. AMES GRAIN AND COAL COMPANY, Ames, Iowa.
Filed March 13, 1928. Serial No. 263,064. PUBLISHED JUNE 5, 1928. Class 1.

246,489. WATCHES AND WATCHCASES. S & D JEWELRY MFG. CO. INC., doing business as S D Watch Case Co., New York, N. Y.
Filed March 12, 1928. Serial No. 263,051. PUBLISHED JUNE 26, 1928. Class 27.

246,490. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. ACME PLATINUM MANUFACTURING CO. INC., New York, N. Y.
Filed March 12, 1928. Serial No. 263,022. PUBLISHED JUNE 26, 1928. Class 28.

246,491. DRESS, NEGLIGEE, AND WORK SHIRTS FOR MEN AND BOYS. WIDE AWAKE SHIRT COMPANY, INC., Reading, Pa.
Filed March 10, 1928. Serial No. 262,989. PUBLISHED JUNE 19, 1928. Class 39.

246,492. COAL. ARGYLE COAL COMPANY, South Fork and Johnstown, Pa.
Filed March 9, 1928. Serial No. 262,839. PUBLISHED JUNE 5, 1928. Class 1.

246,493. LADIES' AND MISSES' HATS. SHIELD HAT COMPANY, INC., San Francisco, Calif.
Filed March 8, 1928. Serial No. 262,821. PUBLISHED JUNE 5, 1928. Class 39.

246,494. HOSIERY. BROOKS HOSIERY MILLS, Philadelphia, Pa.
Filed March 8, 1928. Serial No. 262,795. PUBLISHED JUNE 5, 1928. Class 39.

246,495. COLD AND GRIPPE TABLETS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,737. PUBLISHED JUNE 19, 1928. Class 6.

246,496. COLD AND GRIPPE TABLETS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,733. PUBLISHED JUNE 19, 1928. Class 6.

246,497. MEDICINAL PREPARATION FOR COLDS, CATARRH, SIMPLE SORE THROAT, ASTHMA, AND HAY FEVER. CHARLES T. JOHNSTONE, doing business as The Opex Co., New York, N. Y.
Filed March 7, 1928. Serial No. 262,715. PUBLISHED JUNE 26, 1928. Class 6.

246,498. CARBON ARC LAMP. FRANCIS CUTLER ELLIS, doing business as Ellis Manufacturing Company, Chicago, Ill.
Filed March 7, 1928. Serial No. 262,707. PUBLISHED JUNE 26, 1928. Class 21.

246,499. LUBRICATING OILS AND GREASES. OTIS ELEVATOR COMPANY, Jersey City, N. J., and New York, N. Y.
Filed March 17, 1928. Serial No. 263,338. PUBLISHED JUNE 19, 1928. Class 15.

246,500. MEN'S OUTER CLOTHING, SUITS, OVERCOATS, TOPCOATS, GABERDINES, AND TUXEDOS. THE BURKHARDT BROS. CO., Cincinnati, Ohio.
Filed March 14, 1928. Serial No. 263,124. PUBLISHED JUNE 5, 1928. Class 39.

246,501. TUXEDOS, MEN'S SUITS, AND YOUNG MEN'S SUITS. J. EISNER & SONS CO., INC., New York, N. Y.
Filed March 14, 1928. Serial No. 263,118. PUBLISHED JUNE 5, 1928. Class 39.

246,502. MINERAL OIL FOR MEDICINAL USE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,440. PUBLISHED JUNE 19, 1928. Class 6.

246,503. MINERAL OIL FOR MEDICINAL USE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,438. PUBLISHED JUNE 19, 1928. Class 6.

246,504. MUSTARD OINTMENT FOR RHEUMATISM, LUMBAGO, SCIATICA, NEURALGIA, BRUISES, CHILBLAINS, CROUP, COLD IN THROAT, BRONCHITIS, TONSILITIS, SPRAINS, STIFF MUSCLES, ASTHMA, SORE THROAT, AND PAINS AND INFLAMMATION OF ALL KINDS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,437. PUBLISHED JUNE 19, 1928. Class 6.

246,505. VIOLINS, VIOLAS, AND CELLOS. CARL FISCHER, INC., New York, N. Y.
Filed April 6, 1928. Serial No. 264,427. PUBLISHED JUNE 26, 1928. Class 36.

246,506. FRATERNITY BADGES, LAPEL BUTTONS, SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. DELTA GAMMA DELTA SORORITY, Chicago, Ill.
Filed April 6, 1928. Serial No. 264,425. PUBLISHED JUNE 19, 1928. Class 28.

246,507. ORNAMENTAL SHIELDS AND FRATERNAL JEWELRY MADE OF OR PLATED WITH PRECIOUS METAL FOR PERSONAL WEAR. BETA PHI SIGMA FRATERNITY, St. Louis, Mo.
Filed April 6, 1928. Serial No. 264,414. PUBLISHED JUNE 19, 1928. Class 28.

246,508. DIATOMACEOUS EARTHS. AMERICAN DIATOM COMPANY, Philadelphia, Pa.
Filed April 6, 1928. Serial No. 264,411. PUBLISHED JUNE 12, 1928. Class 1.

246,509. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. ESTATE OF JOS. MOLDAWSKY, DECEASED; Rose Moldawsky, administratrix. New York, N. Y.
Filed April 5, 1928. Serial No. 264,405. PUBLISHED JUNE 19, 1928. Class 28.

246,510. WORK SHIRTS, WORK PANTS, OVERALLS, WORK JACKETS, AND SHOES OF LEATHER, FABRIC, RUBBER, AND COMBINATIONS THEREOF. NATIONAL BELLAS HESS CO. INC., New York, N. Y.
Filed April 5, 1928. Serial No. 264,380. PUBLISHED JUNE 26, 1928. Class 39.

246,511. LUBRICATING OILS AND GREASE. HORACE H. HULL, doing business as Mod-A-Oil Co., Memphis, Tenn.
Filed April 5, 1928. Serial No. 264,374. PUBLISHED JUNE 19, 1928. Class 15.

246,512. OINTMENT FOR BURNS, SCALDS, SUNBURN, WINDBURN, SCRATCHES, BRUISES, BITES, AND STINGS. WRIGHT BROTHERS PHARMACAL LABORATORY, Orange, N. J.
Filed April 4, 1928. Serial No. 264,340. PUBLISHED JUNE 19, 1928. Class 6.

246,513. BABY PANTS OF RUBBER AND RUBBER AND FABRIC. A. STEIN & COMPANY, Chicago, Ill.
Filed April 4, 1928. Serial No. 264,331. PUBLISHED JUNE 19, 1928. Class 39.

246,514. COFFEE, TEA, EXTRACTS FOR FLAVORING FOODS, SPICES; CANNED VEGETABLES SUCH AS PEAS, BEANS, TOMATOES, SPINACH, ASPARAGUS, SUCCOTASH, CORN; CANNED FRUITS SUCH AS PEARS, PEACHES, APRICOTS, PLUMS, CHERRIES; CANNED FISH, CANNED CONDENSED MILK, JELLIES, JAMS, RASPBERRY AND STRAWBERRY PRESERVES, HONEY, PEPPER, MEAT SAUCES, VINEGAR, MARASCHINO CHERRIES, CEREAL BREAKFAST FOODS, RICE, CANDY, MOLASSES, MAPLE AND CORN SYRUPS, AND DRIED FRUITS. E. A. KLINE, doing business as E. A. Kline & Co., New York, N. Y.
Filed April 4, 1928. Serial No. 264,310. PUBLISHED JUNE 19, 1928. Class 46.

246,515. SPONGES. THE GULF & WEST INDIES CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,299. PUBLISHED JUNE 12, 1928. Class 1.

246,516. SPONGES. THE GULF & WEST INDIES CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,298. PUBLISHED JUNE 12, 1928. Class 1.

246,517. MESH BAGS, PINS FOR DRESS ORNAMENTS, ORNAMENTAL PINS AND BUCKLES FOR DECORATING HATS, ORNAMENTAL SHOE BUCKLES, AND HAIR ORNAMENTS, MADE WHOLLY OR IN PART OF OR PLATED WITH PRECIOUS METAL; AND BRACELETS, ERRINGS, FINGER RINGS, BROOCHES, BAR PINS, AND ORNAMENTAL HATPINS. COHN & ROSENBERGER, INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,289. PUBLISHED JUNE 19, 1928. Class 28.

246,518. ELECTRIC HEATING PADS FOR GENERAL USE. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed April 4, 1928. Serial No. 264,288. PUBLISHED JUNE 19, 1928. Class 21.

246,519. MEN'S CLOTHING—NAMELY, TOPCOATS, OVERCOATS, AND GOLF SUITS. PH. WEINBERG & SONS, New York, N. Y.
Filed April 3, 1928. Serial No. 264,268. PUBLISHED JUNE 19, 1928. Class 39.

246,520. AUTOMOBILE DIRECTION-SIGNAL SYSTEMS, ELECTRIC SWITCHES, AND DIRECTION LIGHTS. A. DONHAM OWEN, Boston, Mass.
Filed April 3, 1928. Serial No. 264,255. PUBLISHED JUNE 19, 1928. Class 21.

246,521. SHOES OF LEATHER, CLOTH, AND COMBINATIONS THEREOF. MEYER RUDOLPH SHOE COMPANY, Chicago, Ill.
Filed April 3, 1928. Serial No. 264,250. PUBLISHED JUNE 19, 1928. Class 39.

246,522. GENERAL TONIC. ANDREW COUNT PULASKI, doing business as Pulaski Laboratories, Rochester, N. Y.
Filed April 2, 1928. Serial No. 264,217. PUBLISHED JUNE 19, 1928. Class 6.

246,523. RAW FURS. CONTINENTAL FUR CORPORATION, New York, N. Y.
Filed April 19, 1928. Serial No. 265,093. PUBLISHED JUNE 26, 1928. Class 1.

246,524. ELECTRICAL PHONOGRAPH PICK-UP. LOUIS G. SYLVESTER, Scranton, Pa.
Filed April 18, 1928. Serial No. 265,075. PUBLISHED JUNE 26, 1928. Class 21.

246,525. GAME PLAYED UPON A BOARD OR FIELD. PARKER BROTHERS INC., Portland Me., and Salem, Mass.
Filed April 18, 1928. Serial No. 265,064. PUBLISHED JUNE 19, 1928. Class 22.

246,526. LUBRICATING OILS AND LUBRICATING GREASES. NOURSE OIL COMPANY, Kansas City, Kans.
Filed April 18, 1928. Serial No. 265,062. PUBLISHED JUNE 19, 1928. Class 15.

246,527. LIQUID PICKLING SPICE. STANDFORT SPICE CO., INC., New York, N. Y.
Filed April 17, 1928. Serial No. 265,022. PUBLISHED JUNE 19, 1928. Class 46.

246,528. METAL CLARIONETS. PENZEL, MUELLER & CO., Long Island City, N. Y.
Filed April 17, 1928. Serial No. 265,003. PUBLISHED JUNE 19, 1928. Class 36.

246,529. STEEL IN VARIOUS SHAPES AND FORGINGS. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed April 17, 1928. Serial No. 264,975. PUBLISHED JUNE 19, 1928. Class 14.

246,530. WOVEN RATTAN AND CANE. AMERICAN RATTAN & REED M'F'G. CO., New York, N. Y.
Filed April 17, 1928. Serial No. 264,938. PUBLISHED JUNE 26, 1928. Class 1.

246,531. UNDERLAY FABRIC FOR RUGS, COMPOSED OF RUBBERIZED BURLAP. PETER T. STOFFEL, Racine, Wis.
Filed April 16, 1928. Serial No. 264,922. PUBLISHED JUNE 26, 1928. Class 50.

246,532. ALUMINUM-ALLOY SHAVINGS. ROSS MANUFACTURING COMPANY, Kansas City, Mo.
Filed April 16, 1928. Serial No. 264,917. PUBLISHED JUNE 19, 1928. Class 14.

246,533. HEATER CORDS AND OTHER ELECTRICAL CONDUCTORS. ROCKBESTOS PRODUCTS CORPORATION, New Haven, Conn.
Filed April 16, 1928. Serial No. 264,915. PUBLISHED JUNE 19, 1928. Class 21.

246,534. HEATER CORDS AND OTHER ELECTRICAL CONDUCTORS. ROCKBESTOS PRODUCTS CORPORATION, New Haven, Conn.
Filed April 16, 1928. Serial No. 264 914. PUBLISHED JUNE 19, 1928. Class 21.

246,535. RUBBER SHEETING (BED AND CRIB SHEETING). J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 16, 1928. Serial No. 264,907. PUBLISHED JUNE 19, 1928. Class 50.

246,536. PLAYING CARDS. THE NEW YORK CONSOLIDATED CARD CO., Long Island City, N. Y.
Filed April 16, 1928. Serial No. 264,899. PUBLISHED JUNE 19, 1928. Class 22.

246,537. FISHING LINES. THE HORTON MANUFACTURING COMPANY, Bristol, Conn.
Filed April 16, 1928. Serial No. 264 883. PUBLISHED JUNE 19, 1928. Class 22.

246,538. FLOOR POLISH AND FLOOR DRESSING. HILLYARD CHEMICAL COMPANY, St. Joseph, Mo.
Filed April 16, 1928. Serial No. 264,881. PUBLISHED JUNE 19, 1928. Class 16.

246,539. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. BETA KAPPA FRATERNITY, Tucson, Ariz.
Filed April 16, 1928. Serial No. 264,864. PUBLISHED JUNE 26, 1928. Class 28.

246,540. ELECTRICAL REPRODUCERS AND AMPLIFIERS FOR USE WITH PHONOGRAPHS AND RADIO RECEIVING APPARATUS ADAPTED TO OPERATE IN CONNECTION WITH BAND AND/OR ORCHESTRAL MUSICAL INSTRUMENTS, THE SAID REPRODUCERS, AMPLIFIERS, AND MUSICAL INSTRUMENTS BEING SOLD AS A UNIT. LOUIS G. SYLVESTER, Scranton, Pa.
Filed April 14, 1928. Serial No. 264,852. PUBLISHED JUNE 26, 1928. Class 21.

246,541. POWDER MOUTH WASH USED IN THE TREATMENT OF TEETH AND GUM DISEASES. GEORGE C. MCCANN, doing business as Saliva Research Laboratories, Danville, Ill.
Filed April 14, 1928. Serial No. 264,830. PUBLISHED JUNE 26, 1928. Class 6.

246,542. LEATHER MADE FROM REPTILE SKINS. KAUFHERR & CO., Newark, N. J.
Filed April 14, 1928. Serial No. 264,823. PUBLISHED JUNE 19, 1928. Class 1.

246,543. FLEXIBLE METALLIC CONDUIT FOR USE IN RUNNING ELECTRIC WIRES. BREEZE CORPORATIONS INCORPORATED, Newark, N. J.
Filed February 25, 1928. Serial No. 262,202. PUBLISHED JUNE 26, 1928. Class 21.

246,544. MEN'S AND BOYS' CAPS. ATLANTIC HEADWEAR COMPANY, Atlantic City, N. J.
Filed February 24, 1928. Serial No. 262,145. PUBLISHED JUNE 5, 1928. Class 39.

246,545. MUSH AND A SPREAD FOR SANDWICHES. J. S. LINDSAY, Toledo, Ohio.
Filed February 23, 1928. Serial No. 262,097. PUBLISHED JUNE 19, 1928. Class 46.

246,546. CERTAIN NAMED SPORTING GOODS ARTICLES. MAX GOLDBERG, New York, N. Y.
Filed February 23, 1928. Serial No. 262,076. PUBLISHED JUNE 19, 1928. Class 22.

246,547. INTERIOR DECORATIVE PAINT. CONDIE-BRAY GLASS & PAINT CO., St. Louis, Mo.
Filed April 23, 1928. Serial No. 265,261. PUBLISHED JUNE 19, 1928. Class 16.

246,548. PLATINUM FINGER RINGS. WILLSON & PARR, INC., Chicago, Ill.
Filed February 18, 1928. Serial No. 261,921. PUBLISHED JUNE 19, 1928. Class 28.

246,549. WOMEN'S AND CHILDREN'S DRESSES, BLOOMERS OF TEXTILE FABRICS, NIGHTGOWNS, APRONS, AND CHILDREN'S ROMPERS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed February 18, 1928. Serial No. 261,923. PUBLISHED JUNE 5, 1928. Class 39.

246,550. BRUSHES, BROOMS, WHISK BROOMS, MOPS, AND DUSTERS. THE LUPRIE CO., INC., New York, N. Y.
Filed February 18, 1928. Serial No. 261,889. PUBLISHED JUNE 19, 1928. Class 29.

246,551. MEDICINES FOR TUBERCULOSIS. EMILE CARPENTIER, doing business as Emile Carpentier, Hillsdale, N. J.
Filed February 18, 1928. Serial No. 261,860. PUBLISHED JUNE 19, 1928. Class 6.

246,552. OVERCOATS FOR MEN AND CHILDREN. SAMUEL A. MARTIN, Seattle, Wash.
Filed February 16, 1928. Serial No. 261,761. PUBLISHED JUNE 12, 1928. Class 39.

246,553. PAINT, LACQUERS, VARNISH, AND PAINT ENAMELS. ANDREW BROWN CO., INC., Los Angeles and Maywood, Calif.
Filed February 8, 1928. Serial No. 261,347. PUBLISHED JUNE 19, 1928. Class 16.

246,554. WOMEN'S AND MISSES' DRESSES. MEYER BOSNIAK, New York. N. Y.
Filed February 8, 1928. Serial No. 261,346. PUBLISHED JUNE 5, 1928. Class 39.

246,555. CRAVATS, MUFFLERS, MEN'S AND BOYS' HOSIERY, SWEATERS, DRESSING ROBES, ABDOMINAL BANDS MADE OF WOOL AND USED FOR WARMTH, KNEE WARMERS MADE OF WOOL, AND NIGHTCAPS. THE HURWITT CO. INC., New York, N. Y.
Filed February 6, 1928. Serial No. 261,257. PUBLISHED JUNE 19, 1928. Class 39.

246,556. CHAMOIS LEATHER. BERNARD J. HEANEY, doing business as Heaney Manufacturing Company, Boston, Mass., assignor to Heaney Manufacturing Company, Boston, Mass., a Corporation of Massachusetts.
Filed February 6, 1928. Serial No. 261,256. PUBLISHED JUNE 26, 1928. Class 1.

246,557. MEN'S AND BOYS' WEARING APPAREL. M. C. STONE & SON COMPANY, Lewiston, Me.
Filed February 3, 1928. Serial No. 261,158. PUBLISHED JUNE 19, 1928. Class 39.

246,558. MEN'S AND BOYS' WEARING APPAREL. M. C. STONE & SON COMPANY, Lewiston, Me.
Filed February 3, 1928. Serial No. 261,157. PUBLISHED JUNE 19, 1928. Class 39.

246,559. SULPHUR BITTERS. A. P. ORDWAY & CO., New York, N. Y.
Filed February 3, 1928. Serial No. 261,139. PUBLISHED JUNE 19, 1928. Class 6.

246,560. TRIM FOR FLOOR, BRIDGE, TABLE, AND BOUDOIR STANDS. GRAND WOOD WORKS, INC., Chicago, Ill.
Filed February 3, 1928. Serial No. 261,111. PUBLISHED JUNE 19, 1928. Class 50.

246,561. KNITTED AND WOVEN UNDERWEAR FOR CHILDREN. P. H. HANES KNITTING COMPANY, Winston-Salem, N. C.
Filed February 2, 1928. Serial No. 261,055. PUBLISHED JUNE 12, 1928. Class 39.

246,562. WOVEN AND KNITTED UNDERWEAR FOR CHILDREN. P H. HANES KNITTING COMPANY, Winston-Salem, N. C.
Filed February 2, 1928. Serial No. 261,054. PUBLISHED JUNE 12, 1928. Class 39.

246,563. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. BROOM & NEWMAN, New York, N. Y.
Filed February 2, 1928. Serial No. 261,040. PUBLISHED JUNE 5, 1928. Class 39.

246,564. BATTERIES. THE SMITH BROTHERS HARDWARE COMPANY, Columbus, Ohio.
Filed March 27, 1928. Serial No. 263,834. PUBLISHED JUNE 26, 1928. Class 21.

246,565. GASOLINE. TORCH OIL COMPANY, St. Louis, Mo.
Filed March 24, 1928. Serial No. 263,735. PUBLISHED JUNE 19, 1928. Class 15.

246,566. LEATHER. NEW CASTLE LEATHER CO., INC., New York, N. Y.
Filed March 24, 1928. Serial No. 263,722. PUBLISHED JUNE 19, 1928. Class 1.

246,567. FISHING TACKLE. HENRY MILWARD & SONS LIMITED, Redditch, England.
Filed March 24, 1928. Serial No. 263,717. PUBLISHED JUNE 26, 1928. Class 22.

246,568. FISHING TACKLE. HENRY MILWARD & SONS LIMITED, Redditch, England.
Filed March 24, 1928. Serial No. 263,716. PUBLISHED JUNE 26, 1928. Class 22.

246,569. WORK SHIRTS, GLOVES OF A COMBINATION OF FABRIC AND LEATHER, JUMPERS, COVERALLS, PLAY SUITS, AND MEN'S AND BOYS' OVERALLS, PANTS, JACKETS, AND COATS. HOLBERT-LONGLEY MANUFACTURING CO., Chattanooga, Tenn.
Filed March 24, 1928. Serial No. 263,702. PUBLISHED JUNE 26, 1928. Class 39.

246,570. GASOLINE, CUP AND AXLE GREASES, CRUDE PETROLEUM, AND AUTOMOBILE AND ENGINE LUBRICATING OILS. CONTINENTAL REFINING COMPANY, Cornplanter, Pa.
Filed March 24, 1928. Serial No. 263,693. PUBLISHED JUNE 19, 1928. Class 15.

246,571. FRATERNITY PINS MADE OF OR PLATED WITH PRECIOUS METAL. ALPHA SIGMA, New York, N. Y.
Filed March 24, 1928. Serial No. 263,678. PUBLISHED JUNE 12, 1928. Class 28.

246,572. ELECTRICAL STARTING, LIGHTING, AND IGNITION APPARATUS AND PARTS THEREOF. DELCO-REMY CORPORATION, Anderson, Ind., and Dayton, Ohio.
Filed March 22, 1928. Serial No. 263,594. PUBLISHED JUNE 26, 1928. Class 21.

246,573. COAL. CAMPBELL COAL COMPANY, Atlanta, Ga.
Filed March 22, 1928. Serial No. 263,584. PUBLISHED JUNE 12, 1928. Class 1.

246,574. DISPENSING BOTTLE STOPPERS. ANDERSON-PITT CORPORATION, Kansas City, Mo.
Filed March 22, 1928. Serial No. 263,578. PUBLISHED JUNE 12, 1928. Class 50.

246,575. LUBRICATING OIL. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed March 20, 1928. Serial No. 263,516. PUBLISHED JUNE 19, 1928. Class 15.

246,576. OINTMENT FOR USE IN THE TREATMENT OF SKIN DISEASES. THE OMEGA CHEMICAL COMPANY, New York, N. Y.
Filed March 20, 1928. Serial No. 263,511. PUBLISHED JUNE 19, 1928. Class 6.

246,577. DEODORANT. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,504. PUBLISHED JUNE 19, 1928. Class 6.

246,578. CARD GAMES. JOSEPHINE O. MIRANDA, Los Angeles, Calif.
Filed March 19, 1928. Serial No. 263,413. PUBLISHED JUNE 19, 1928. Class 22.

246,579. DAIRY AND FARM PRODUCTS—NAMELY, MILK, CREAM, ICE CREAM, BUTTER, AND EGGS. G. WATSON FRENCH, doing business as Iowana Farms, Davenport, Iowa.
Filed March 19, 1928. Serial No. 263,385. PUBLISHED JUNE 26, 1928. Class 46.

246,580. CERTAIN NAMED SPORTING GOODS ARTICLES. JAMES W. BRINE CO., Boston, Mass.
Filed March 19, 1928. Serial No. 263,372. PUBLISHED JUNE 26, 1928. Class 22.

246,581. LADIES' HATS. J. BLOOMFIELD CO., INC., New York, N. Y.
Filed March 19, 1928. Serial No. 263,370. PUBLISHED JUNE 19, 1928. Class 39.

246,582. FOOTBALLS. THE DRAPER-MAYNARD COMPANY, Plymouth, N. H.
Filed April 19, 1928. Serial No. 265,097. PUBLISHED JUNE 19, 1928. Class 22.

246,583. GASOLINE. CUSHING REFINING & GASOLINE COMPANY, Cushing, Okla.
Filed April 19, 1928. Serial No. 265,094. PUBLISHED JUNE 26, 1928. Class 15.

246,584. WHEAT FLOUR. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed May 12, 1928. Serial No. 266,307. PUBLISHED JUNE 19, 1928. Class 46.

246,585. LADIES' HAND BAGS. MORRIS WHITE, INC., New York, N. Y.
Filed May 9, 1928. Serial No. 266,160. PUBLISHED JUNE 19, 1928. Class 3.

246,586. RICE. LAKE CHARLES RICE MILLING COMPANY OF LOUISIANA, INC., Lake Charles, La.
Filed May 3, 1928. Serial No. 265,846. PUBLISHED JUNE 19, 1928. Class 46.

246,587. WHEAT FLOUR. INTERNATIONAL MILLING COMPANY, doing business as Western Flour Mills, Minneapolis, Minn., and Davenport, Iowa.
Filed May 2, 1928. Serial No. 265,795. PUBLISHED JUNE 19, 1928. Class 46.

246,588. CERTAIN NAMED PAINT PRODUCTS. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed April 30, 1928. Serial No. 265,684. PUBLISHED JUNE 19, 1928. Class 16.

246,589. DOG FOOD. SPRATT'S PATENT (AMERICA) LIMITED, London, England.
Filed April 28, 1928. Serial No. 265,581. PUBLISHED JUNE 19, 1928. Class 46.

246,590. LIQUID BINDER FOR FORMING CORES FOR CASTINGS. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa.
Filed April 27, 1928. Serial No. 265,495. PUBLISHED JUNE 26, 1928. Class 5.

246,591. BISCUIT, CAKE, AND CRACKERS. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed April 25, 1928. Serial No. 265,395. PUBLISHED JUNE 19, 1928. Class 46.

246,592. PORTFOLIOS, BRIEF CASES, HAND BAGS, SUITCASES, SATCHELS, GRIPS, TRAVELING CASES, SHAWL STRAPS, AND HATBOXES. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa.
Filed April 25, 1928. Serial No. 265,886. PUBLISHED JUNE 26, 1928. Class 3.

246,593. FROZEN EGGS. TITMAN EGG CORPORATION, New York, N. Y.
Filed April 17, 1928. Serial No. 265,024. PUBLISHED JUNE 19, 1928. Class 46.

246,594. CERTAIN NAMED WEARING APPAREL. WALLACH BROTHERS, New York, N. Y.
Filed March 22, 1928. Serial No. 263,627. PUBLISHED JUNE 12, 1928. Class 39.

246,595. LEATHER SHOES. KEEHN BROTHERS, Chicago, Ill.
Filed March 22, 1928. Serial No. 263,608. PUBLISHED JUNE 12, 1928. Class 39.

246,596. WOMEN'S AND MISSES' SHOES AND SLIPPERS OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. ELIAS-KATZ SHOE FACTORIES, Los Angeles, Calif.
Filed March 20, 1928. Serial No. 263,465. PUBLISHED JUNE 5, 1928. Class 39.

246,597. MEN'S SUITS AND OVERCOATS. BEN BEEKMAN, New Orleans, La.
Filed April 9, 1928. Serial No. 264,553. PUBLISHED JUNE 12, 1928. Class 39.

246,598. MEN'S AND BOYS' READY-TO-WEAR COATS, VESTS, TROUSERS, AND OVERCOATS. B. KUPPENHEIMER & CO., INC., Chicago, Ill.
Filed April 7, 1928. Serial No. 264,520. PUBLISHED JUNE 5, 1928. Class 39.

246,599. HOSIERY. GARCIA & PLA, New York, N. Y.
Filed April 4, 1928. Serial No. 264,294. PUBLISHED JUNE 12, 1928. Class 39.

246,600. CERTAIN NAMED WEARING APPAREL. FRED BUTTERFIELD & CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,286. PUBLISHED JUNE 5, 1928. Class 39.

246,601. HOSIERY. THOMAS G. PLANT CORPORATION, Boston, Mass.
Filed April 3, 1928. Serial No. 264,257. PUBLISHED JUNE 12, 1928. Class 39.

246,602. MEN'S AND BOYS' SUITS. HASPEL BROTHERS, INC., New Orleans, La.
Filed April 3, 1928. Serial No. 264,232. PUBLISHED JUNE 5, 1928. Class 39.

246,603. HOSIERY. DOROTHY DODD SHOE COMPANY, Boston, Mass.
Filed April 3, 1928. Serial No. 264,224. PUBLISHED JUNE 5, 1928. Class 39.

246,604. MECHANICAL TANKS FOR STORING AND SOFTENING WATER FOR USE WITH STEAM AND HOT-WATER CLEANING MACHINES. THE GUIBERSON CORPORATION, Dallas, Tex.
Filed April 2, 1928. Serial No. 264,163. PUBLISHED JUNE 26, 1928. Class 23.

246,605. WOMEN'S DRESSES. DEMI-SIZE DRESS CORPORATION, New York, N. Y.
Filed March 6, 1928. Serial No. 262,650. PUBLISHED JUNE 19, 1928. Class 39.

246,606. DRESS, NEGLIGEE, AND WORK SHIRTS. M. H. RAAB CO., Philadelphia, Pa.
Filed March 1, 1928. Serial No. 262,486. PUBLISHED JUNE 19, 1928. Class 39.

246,607. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. OSTROW & SAMIT, New York, N. Y.
Filed March 1, 1928. Serial No. 262,480. PUBLISHED JUNE 26, 1928. Class 28.

246,608. CANNED BEANS, CANNED FIG SYRUP, AND CANNED SPINACH. THE ANGLETON FIG COMPANY, Angleton, Tex.
Filed February 28, 1928. Serial No. 262,346. PUBLISHED JUNE 19, 1928. Class 46.

246,609. CHAMOIS SKINS. LASKER & BERNSTEIN, INC., New York, N. Y.
Filed February 25, 1928. Serial No. 262,228. PUBLISHED JUNE 12, 1928. Class 1.

246,610. LUBRICATING OILS AND LUBRICATING GREASES. LA-LO CHEMICAL COMPANY, INC., Providence, R. I.
Filed February 25, 1928. Serial No. 262,226. PUBLISHED JUNE 19, 1928. Class 15.

246,611. WOMEN'S WOOLEN COATS, CHINCHILLA COATS, AND FUR COATS. EISEN & SON, New York, N. Y.
Filed February 25, 1928. Serial No. 262,216. PUBLISHED JUNE 5, 1928. Class 39.

246,612. WOMEN'S, MISSES', AND CHILDREN'S SHOES OF LEATHER, RUBBER, AND FABRIC AND COMBINATIONS THEREOF. DEVINE & YUNGEL SHOE MFG. CO., Harrisburg, Pa.
Filed February 25, 1928. Serial No. 262,214. PUBLISHED JUNE 5, 1928. Class 39.

246,613. GOLF BALLS. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed April 21, 1928. Serial No. 265,242. PUBLISHED JUNE 19, 1928. Class 22.

246,614. RADIO RECEIVING SETS. KEMPER RADIO CORPORATION, Los Angeles, Calif.
Filed April 21, 1928. Serial No. 265,216. PUBLISHED JUNE 26, 1928. Class 21.

246,615. TOY AUTOMOBILES, TOY AUTOMOBILE TRUCKS, TOY BUSSES, AND TOY AIRPLANES. DOWST MANUFACTURING COMPANY, Chicago, Ill.
Filed April 21, 1928. Serial No. 265,199. PUBLISHED JUNE 26, 1928. Class 22.

246,616. CANNED OLIVES. A. V. STUART, doing business as A. V. Stuart Olive Canning Company, Ripon, Calif.
Filed April 20, 1928. Serial No. 265,174. PUBLISHED JUNE 19, 1928. Class 46.

246,617. MALT SYRUP. HORSE SHOE MALT COMPANY, Camden, N. J.
Filed April 20, 1928. Serial No. 265,157. PUBLISHED JUNE 19, 1928. Class 46.

246,618. ICE CREAM. THE HENDLER CREAMERY COMPANY, Baltimore, Md.
Filed April 20, 1928. Serial No. 265,156. PUBLISHED JUNE 19, 1928. Class 46.

246,619. VEGETABLE STEARINE USED FOR CONFECTIONS AND ICINGS. THE BEST FOODS, INC., New York, N. Y.
Filed April 20, 1928. Serial No. 265,134. PUBLISHED JUNE 26, 1928. Class 46.

246,620. FOOD-FLAVORING SYRUP. EARL ALBERT TYLER, doing business as Tyler Products Co., Pawtucket, R. I.
Filed April 19, 1928. Serial No. 265,128. PUBLISHED JUNE 26, 1928. Class 46.

246,621. AUTOMOBILE POLISH. SUPERLA LABORATORIES, INC., Chicago, Ill.
Filed April 19, 1928. Serial No. 265,125. PUBLISHED JUNE 26, 1928. Class 16.

246,622. FINGER RINGS. HELM & HAHN CO., Pittsburgh, Pa.
Filed April 19, 1928. Serial No. 265,106. PUBLISHED JUNE 9, 1928. Class 28.

246,623. ELECTRIC VIBRATORS AND ELECTRIC HAIR DRYERS. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed April 19, 1928. Serial No. 265,102. PUBLISHED JUNE 19, 1928. Class 44.

246,624. ELECTRIC VIBRATORS AND ELECTRIC HAIR DRYERS. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed April 19, 1928. Serial No. 265,101. PUBLISHED JUNE 19, 1928. Class 44.

246,625. LADIES' AND CHILDREN'S HATS. LEVITT MILLINERY COMPANY, St. Louis, Mo.
Filed March 14, 1928. Serial No. 263,160. PUBLISHED JUNE 5, 1928. Class 39.

246,626. LIVE AND DRESSED POULTRY, AND EGGS. JAMES L. HUMPHREY, Jr., New Bedford, Mass.
Filed April 24, 1928. Serial No. 265,335. PUBLISHED JUNE 26, 1928. Class 46.

246,627. CERTAIN NAMED PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed April 24, 1928. Serial No. 265,327. PUBLISHED JUNE 19, 1928. Class 16.

246,628. CERTAIN NAMED PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed April 24, 1928. Serial No. 265,328. PUBLISHED JUNE 19, 1928. Class 16.

246,629. CERTAIN NAMED PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed April 24, 1928. Serial No. 265,326. PUBLISHED JUNE 19, 1928. Class 16.

246,630. CERTAIN NAMED PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed April 24, 1928. Serial No. 265,324. PUBLISHED JUNE 19, 1928. Class 16.

246,631. ARTIFICIAL FURS. HARRY BERGER, doing business as H. Berger & Co., New York, N. Y.
Filed April 24, 1928. Serial No. 265,314. PUBLISHED JUNE 26, 1928. Class 1.

246,632. FIXED CONDENSERS. TOBE C. DEUTSCHMANN, doing business as Tobe Deutschmann Company, Cambridge, Mass.
Filed April 23, 1928. Serial No. 265,263. PUBLISHED JUNE 26, 1928. Class 21.

246,633. WOMEN'S AND CHILDREN'S DRESSES, FROCKS, AND NEGLIGEES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed April 2, 1928. Serial No. 264,142. PUBLISHED JUNE 5, 1928. Class 39.

246,634. SOCKS FOR INFANTS AND FOR CHILDREN. HERBERT HOSIERY MILLS, INC., Norristown, Pa.
Filed March 31, 1928. Serial No. 264,105. PUBLISHED JUNE 5, 1928. Class 39.

246,635. NATURAL AND SYNTHETIC OILS SUITABLE FOR PERFUMING PURPOSES. HEINE & CO., New York, N. Y.
Filed March 31, 1928. Serial No. 264,101. PUBLISHED JULY 3, 1928. Class 6.

246,636. VESTS, DRAWERS, AND UNION SUITS OF KNITTED AND TEXTILE FABRIC FOR MEN, WOMEN, AND CHILDREN. ROBERT K. DEIMEL, New York, N. Y.
Filed March 29, 1928. Serial No. 263,934. PUBLISHED JUNE 5, 1928. Class 39.

246,637. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS; MEN'S UNDERWEAR BOTH OF KNITTED AND OF WOVEN FABRIC, MEN'S SUITS, MEN'S TROUSERS, MEN'S COATS, VESTS, OVERCOATS, RAINCOATS, AND SWEATERS. RAYMOND SYNDICATE, INC., Boston, Mass.
Filed March 28, 1928. Serial No. 263,893. PUBLISHED JUNE 12, 1928. Class 39.

246,638. NURSES' UNIFORMS OF ALL DESCRIPTIONS AND WOMEN'S, CHILDREN'S, AND MISSES' DRESSES AND APRONS. JACOB'S BROTHERS, INCORPORATED, Baltimore, Md.
Filed March 27, 1928. Serial No. 263,826. PUBLISHED JUNE 5, 1928. Class 39.

246,639. HOSIERY. QUAKER HOSIERY COMPANY, INC., Philadelphia, Pa.
Filed March 26, 1928. Serial No. 263,788. PUBLISHED JUNE 5, 1928. Class 39.

246,640. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS, PAJAMAS, AND UNDERWEAR CONSISTING OF TEXTILE FABRICS. LE ROY SHIRT CO., New York, N. Y.
Filed March 23, 1928. Serial No. 263,659. PUBLISHED JUNE 5, 1928. Class 39.

246,641. FLANNEL SHIRTS FOR OUTER WEAR, DRESS AND WORK SHIRTS, NIGHTSHIRTS, AND PAJAMAS. SAMUEL VALENTINE CO. INC., New York, N. Y.
Filed March 20, 1928. Serial No. 263,520. PUBLISHED JUNE 5, 1928. Class 39.

246,642. WOMEN'S AND CHILDREN'S COSTUME SLIPS, BLOOMERS, AND PETTICOATS MADE FROM TEXTILE FABRICS. THE PATRICIA PETTICOAT CO. INC., New York, N. Y.
Filed March 17, 1928. Serial No. 263,340. PUBLISHED JUNE 12, 1928. Class 39.

246,643. MIDDIES AND KNICKERS FOR WOMEN, MISSES, AND GIRLS; PLAY SUITS AND BLOOMERS FOR OUTER WEAR FOR MISSES AND GIRLS. KENILWORTH MANUFACTURING CO. INC., New York, N. Y.
Filed March 15, 1928. Serial No. 263,215. PUBLISHED JUNE 5, 1928. Class 39.

246,644. MEN'S SUITS AND OVERCOATS. HICKEY-FREEMAN CO., Rochester, N. Y.
Filed April 14, 1928. Serial No. 264,820. PUBLISHED JUNE 12, 1928. Class 39.

246,645. HOSIERY. HOLEPROOF HOSIERY CO., Milwaukee, Wis.
Filed April 11, 1928. Serial No. 264,684. PUBLISHED JUNE 5, 1928. Class 39.

246,646. HATBANDS. THE COLUMBIA RIBBON CO., Paterson, N. J.
Filed April 6, 1928. Serial No. 264,422. PUBLISHED JUNE 19, 1928. Class 40.

246,647. LEATHER SHOES. JEREMIAH FITZPATRICK, doing business as George Strong Company, East Weymouth, Mass.
Filed March 28, 1928. Serial No. 263,868. PUBLISHED JUNE 5, 1928. Class 39.

246,648. SHOES MADE OF LEATHER, RUBBER, OR FABRIC OR COMBINATIONS THEREOF. DELMAN, INC., New York, N. Y.
Filed March 27, 1928. Serial No. 263,814. PUBLISHED JUNE 5, 1928. Class 39.

246,649. PIE-CRUST PREPARATION. MARION C. SOWELL, Gastonia, N. C.
Filed April 14, 1928. Serial No. 264,850. PUBLISHED JUNE 19, 1928. Class 46.

246,650. RAVIOLI AND MUSHROOM SAUCE. MAMA'S RAVIOLI COMPANY, Los Angeles, Calif., assignor, by mesne assignments, to M. S. Pencin, Los Angeles, Calif.
Filed March 5, 1927. Serial No. 245,279. PUBLISHED JUNE 26, 1928. Class 46.

246,651. SOLE LEATHER. LICHTENBERGER-FERGUSON COMPANY, Los Angeles, Calif.
Filed February 23, 1927. Serial No. 244,781. PUBLISHED JUNE 19, 1928. Class 1.

246,652. ELECTRIC AIR OR SPACE HEATERS, ELECTRIC DRYERS, AND OVENS FOR INDUSTRIAL USES, ETC. EDWIN L. WIEGAND COMPANY, Pittsburgh, Pa.
Filed February 9, 1927. Serial No. 244,120. PUBLISHED JUNE 26, 1928. Class 21.

246,653. DESICCATED COCONUT. JOHN D. MCCORD, Manila, P. I.
Filed February 5, 1927. Serial No. 243,870. PUBLISHED JUNE 26, 1928. Class 46.

246,654. NONELECTRICAL EMBOSSED METAL SIGNS, ROAD SIGNS, AND TRAIL MARKERS. WESTERN STAMPING AND MANUFACTURING COMPANY, St. Paul, Minn.
Filed December 23, 1926. Serial No. 241,913., PUBLISHED JUNE 5, 1928. Class 50.

246,655. CALFSKIN. AMERICAN HIDE AND LEATHER COMPANY, Boston, Mass.
Filed October 21, 1926. Serial No. 238,941. PUBLISHED JUNE 19, 1928. Class 1.

246,656. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES OF VARIOUS FLAVORS SOLD AS SOFT DRINKS. EAST SIDE BOTTLING WORKS, Detroit, Mich.
Filed October 5, 1926. Serial No. 238,168. PUBLISHED NOVEMBER 30, 1926. Class 45.

246,657. WOMEN'S AND MISSES' UNDERGARMENTS CONSISTING OF PAJAMAS, NIGHTGOWNS, SLIPS, VESTS, CHEMISES, STEP-INS, PANTIES, BLOOMERS, AND UNION SUITS MADE OF EITHER KNITTED OR TEXTILE FABRICS OF SILK, WOOL, COTTON, RAYON, OR COMBINATIONS THEREOF. FEINBERG & SUSSBERG, INC., New York, N. Y., assignor to James McCreery & Company, New York, N. Y., a Corporation of New York.
Filed August 18, 1926. Serial No. 236,125. PUBLISHED DECEMBER 7, 1926. Class 39.

246,658. ASTRINGENT LOTION. THE ARMAND COMPANY, Des Moines, Iowa.
Filed May 10, 1926. Serial No. 231,361. PUBLISHED AUGUST 3, 1926. Class 6.

246,659. CONDIMENTS—NAMELY, WORCESTERSHIRE SAUCE; CANNED FRUITS AND CANNED VEGETABLES AND CATSUP. HANS P. LARSEN, Salinas, Calif.
Filed July 3, 1926. Serial No. 234,135. PUBLISHED JUNE 26, 1928. Class 46.

246,660. ICE CREAM; DAIRY PRODUCTS—NAMELY, FRESH AND CONDENSED MILK; BUTTERMILK, AND CHEESE. LOS ANGELES CREAMERY CO., Los Angeles, Calif.
Filed January 30, 1926. Serial No. 226,667. PUBLISHED JUNE 19, 1928. Class 46.

246,661. EGGS, ICE CREAM; DAIRY PRODUCTS—NAMELY, FRESH AND CONDENSED MILK, BUTTER, BUTTERMILK, AND CHEESE. LOS ANGELES CREAMERY CO., Los Angeles, Calif.
Filed January 30, 1926. Serial No. 226,666. PUBLISHED JUNE 19, 1928. Class 46.

246,662. COUGH DROPS. E. A. SMITH, Duluth, Minn.
Filed January 18, 1926. Serial No. 225,891. PUBLISHED JUNE 26, 1928. Class 6.

246,663. ELECTRIC CONTROLS FOR DEVICES—NAMELY, HIGH-PRESSURE CUT-OUT SWITCHES, AUTOMATIC ELECTRICALLY-CONTROLLED VALVES FOR FLUIDS AND GASES. PROTECTO PRODUCTS CO., Los Angeles, Calif.
Filed November 30, 1925. Serial No. 224,048. PUBLISHED JUNE 19, 1928. Class 21.

246,664. CERTAIN NAMED WEARING APPAREL. KOLN-ROTTWEIL AKTIENGESELLSCHAFT, Berlin, Germany.
Filed August 27, 1925. Serial No. 219,434. PUBLISHED JUNE 5, 1928. Class 39.

246,665. ELECTRIC BATTERIES—VIZ, A AND B BATTERIES. BRIGHT STAR BATTERY CO., Hoboken, N. J.
Filed November 5, 1925. Serial No. 222,620. PUBLISHED FEBRUARY 23, 1926. Class 21.

246,666. CUT-OUTS, PANEL BOARDS, SWITCHBOARDS, ELECTRICAL DISTRIBUTING CENTERS, AND ELECTRICAL CABINETS. MUTUAL ELECTRIC AND MACHINE COMPANY, Hamtramck, Mich.
Filed September 21, 1925. Serial No. 220,560. PUBLISHED FEBRUARY 23, 1926. Class 21.

246,667. FACIAL CREAMS. ALFRED J. KRANK, doing business as A. J. Krank Manufacturing Company, St. Paul, Minn.
Filed August 14, 1925. Serial No. 218,855. PUBLISHED JUNE 26, 1928. Class 6.

246,668. ELECTRIC TABLE LAMPS, ELECTRIC WALL BRACKETS, ELECTRIC FLOOR LAMPS, AND ELECTRIC CHANDELIERS. ARTIQUE STUDIOS, Chicago, Ill.
Filed April 24, 1925. Serial No. 213,218. PUBLISHED JUNE 19, 1928. Class 21.

246,669. PREPARATION TO BE ADDED TO GASOLINE AND INTENDED TO ELIMINATE KNOCKS, INCREASE MILEAGE, PREVENT CARBON, AND INCREASE POWER. ANZENE PRODUCTS COMPANY, St. Louis, Mo.
Filed October 13, 1924. Serial No. 203,780. PUBLISHED JUNE 19, 1928. Class 6.

246,670. WOMEN'S AND CHILDREN'S KNITTED AND TEXTILE FABRIC UNDERWEAR. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed August 29, 1927. Serial No. 254,096. PUBLISHED JUNE 5, 1928. Class 39.

246,671. HATS AND CAPS FOR MEN AND BOYS. NEW YORK HAT STORES, INC., Los Angeles, Calif.
Filed January 4, 1928. Serial No. 259,688. PUBLISHED JUNE 26, 1928. Class 39.

246,672. DEAF SETS (PORTABLE TELEPHONE APPARATUS TO ASSIST THE DEAF IN HEARING). GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed January 5, 1928. Serial No. 259,725. PUBLISHED JUNE 19, 1928. Class 44.

246,673. DEAF SETS. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed January 5, 1928. Serial No. 259,726. PUBLISHED JUNE 19, 1928. Class 44.

246,674. DEAF SETS. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed January 5, 1928. Serial No. 259,727. PUBLISHED JUNE 19, 1928. Class 44.

246,675. DEAF SETS. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed January 5, 1928. Serial No. 259,728. PUBLISHED JUNE 19, 1928. Class 44.

246,676. LEATHER GLOVES. SAGER GLOVE CORPORATION, Chicago, Ill.
Filed January 7, 1928. Serial No. 259,823. PUBLISHED MAY 29, 1928. Class 39.

246,677. WOMEN'S APRONS, COLLARS, AND CUFFS; WOMEN'S APRON, COLLAR, AND CUFF SETS; NURSES', MAIDS', WAITRESSES' AND COOKS' CAPS AND BANDEAUX. HENRY A. DIX & SONS CORPORATION, New York, N. Y.
Filed March 19, 1927. Serial No. 246,017. PUBLISHED JUNE 5, 1928. Class 39.

246,678. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. FRANK FLYNN, Providence, R. I.
Filed April 25, 1928. Serial No. 265,373. PUBLISHED JUNE 26, 1928. Class 28.

246,679. LACQUERS AND VARNISHES. THE ARCO COMPANY, Cleveland, Ohio.
Filed April 25, 1928. Serial No. 265,356. PUBLISHED JUNE 26, 1928. Class 16.

246,680. PHONOGRAPHS. TOTTY TRUNK & BAG CO., INC., Petersburg, Va.
Filed April 24, 1928. Serial No. 265,348. PUBLISHED JUNE 26, 1928. Class 36.

246,681. POISON GAS IMPRISONED IN A SLOWLY-VOLATILIZING MEDIUM, SUCH AS NAPHTHALINE, FOR THE DESTRUCTION OF MOTHS, ANTS, COCKROACHES, AND OTHER VERMIN, USED IN CAKE FORM TO BE POWDERED AND SCATTERED ON SHELVES AND FLOORS. FLORENCE BRANDE MACCARTHY, Philadelphia, Pa.
Filed April 24, 1928. Serial No. 265,339. PUBLISHED JUNE 19, 1928. Class 6.

246,682. LEATHER SHOES. JAMES COSTARAS, doing business as James Costaras Shoe Co., Nashua, N. H.
Filed December 24, 1927. Serial No. 259,321. PUBLISHED MAY 29, 1928. Class 30.

246,683. LUBRICATING OILS AND GREASES, LUBRICATING-OIL BASES AND INGREDIENTS, AND CUTTING OILS AND COMPOUNDS. SEYMOUR-HOWARD CORPORATION, Chicago, Ill.
Filed December 16, 1927. Serial No. 259,026. PUBLISHED JUNE 26, 1928. Class 15.

246,684. ELECTRIC CIGAR LIGHTERS. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill.
Filed December 15, 1927. Serial No. 258,963. PUBLISHED JUNE 19, 1928. Class 21.

246,685. SEEDS. KELLOGG SEED COMPANY, Milwaukee, Wis.
Filed December 15, 1927. Serial No. 258,947. PUBLISHED JUNE 19, 1928. Class 1.

246,686. PLAQUES, STATUETTES, WALL SCONCES, AND CANDLESTICKS. RICH-CRAFT STUDIOS, INC., Jamestown, N. Y.
Filed November 29, 1927. Serial No. 258,192. PUBLISHED JUNE 5, 1928. Class 50.

246,687. JEWELRY FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES; PENHOLDERS; PENCIL HOLDERS, MAGAZINE PENCILS, PENKNIVES, BELT BUCKLES, VANITY CASES, CONTAINERS FOR PERFUME; DRESSER SETS CONSISTING OF COMBS, BRUSHES, HAND MIRRORS, AND POWDER JARS; ORNAMENTATIONS FOR DESK SETS, MATCH BOXES, FLATWARE, WALL PLAQUES, MESH BAGS, ALL MADE WHOLLY OR PARTLY OF PRECIOUS METAL. THE CHI OMEGA FRATERNITY, Cincinnati, Ohio.
Filed November 26, 1927. Serial No. 258,068. PUBLISHED JUNE 26, 1928. Class 28.

246,688. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, CIGARETTE CASES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. ALPHA DELTA SIGMA, Madison, Wis.
Filed November 23, 1927. Serial No. 257,956. PUBLISHED JUNE 26, 1928. Class 28.

246,689. ELECTROMAGNETIC APPARATUS AND PARTS THEREOF FOR PRODUCING FARADAIC CURRENTS FOR MEDICINAL PURPOSES. ADOLF HALPERN, Vienna, Austria.
Filed November 18, 1927. Serial No. 257,756. PUBLISHED JUNE 26, 1928. Class 44.

246,690. LEATHER BOOTS AND SHOES. THE CHARLES E. LYNCH SHOE MANUFACTURING CO., INC., New York, N. Y.
Filed November 17, 1927. Serial No. 257,686. PUBLISHED JUNE 26, 1928. Class 39.

246,691. STRINGS MANUFACTURED FROM GUTS UNSPUN OR SPUN WITH METAL WIRE FOR THE USE FOR MUSICAL INSTRUMENTS. HANDEL SVENNOOTSCHAP ONDER DE FIRMA PH. HAKKERT JR., HANDELENDE TEVENS ONDER DEN NAAM VAN FIRST DUTCH STRINGMAKERS EN EERSTE NEDERLANDSCHE SNARENFABRIEK, Rotterdam, Netherlands.
Filed November 17, 1927. Serial No. 257,673. PUBLISHED JUNE 26, 1928. Class 36.

246,692. FINGER RINGS, BROOCHES, STICK PINS, WATCH AND NECK CHAINS, CIGAR CASES OF PRECIOUS METAL, CIGARETTE CASES OF PRECIOUS METAL, FOBS, BRACELETS, LAVALIÈRES, JEWELRY CASES OF PRECIOUS METAL, AND NECKLACES. SCHNEIDER & LONDON, INC., New York, N. Y.
Filed January 27, 1928. Serial No. 260,755. PUBLISHED JUNE 19, 1928. Class 28.

246,693. PROCESSED OR COATED CLOTH. THE CLEVELAND LINER & MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 27, 1928. Serial No. 260,716. PUBLISHED JUNE 19, 1928. Class 50.

246,694. ELECTRICAL BACON BROILERS FOR HOTELS, RESTAURANTS, AND HOUSEHOLD USE. CARTER-STRITE MFG. CO., Minneapolis, Minn.
Filed January 26, 1928. Serial No. 260,672. PUBLISHED JUNE 26, 1928. Class 21.

246,695. LADIES' DRESSES. DEJA, INC., New York, N. Y.
Filed January 25, 1928. Serial No. 260,629. PUBLISHED MAY 22, 1928. Class 39.

246,696. TUNGSTEN CONCENTRATES. OZARK TUNGSTEN COMPANY, St. Louis and Silvermine, Mo.
Filed January 24, 1928. Serial No. 260,583. PUBLISHED JUNE 5, 1928. Class 1.

246,697. OIL CANS. FRED I. JADEN, doing business as F. Jaden Manufacturing Co., Hastings, Nebr.
Filed January 24, 1928. Serial No. 260,571. PUBLISHED JULY 3, 1928. Class 2.

246,698. BRUSHES FOR PERSONAL USE. MAX ROSENWALD, New York, N. Y.
Filed January 21, 1928. Serial No. 260,470. PUBLISHED JUNE 19, 1928. Class 29.

246,699. SANITARY MILK-BOTTLE COVER. RUTH E. LANDES, New York, N. Y.
Filed January 24, 1928. Serial No. 260,573. PUBLISHED JUNE 5, 1928. Class 50.

246,700. LEATHER GLOVES. DAVID & BLUM, INC., New York, N. Y.
Filed January 20, 1928. Serial No. 260,377. PUBLISHED MAY 8, 1928. Class 39.

246,701. SHOES MADE WHOLLY OF LEATHER AND PARTLY OF LEATHER IN COMBINATION WITH OTHER MATERIALS AND WITH STEEL SPRING ARCH CONSTRUCTION. STEWART-DAWES SHOE CO., Los Angeles, Calif.
Filed January 18, 1928. Serial No. 260,296. PUBLISHED JUNE 26, 1928. Class 39.

246,702. FLUID MEDICINE COMPOSED OF TAR AND THE ABSTRACT OF COD LIVER AND USED AS A TREATMENT FOR COLDS, BRONCHITIS, COUGHS, AND THROAT IRRITATION. SAMUEL J. GOLDBERG, doing business as Goldban Pharmacal Co., Camden, N. J.
Filed September 17, 1927. Serial No. 254,846. PUBLISHED JUNE 19, 1928. Class 6.

246,703. JEWELRY FOR PERSONAL USE OR ADORNMENT CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARFPINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed September 21, 1927. Serial No. 255,024. PUBLISHED JUNE 26, 1928. Class 28.

246,704. SWEATERS, BATHING SUITS, KNITTED DRESSES, KNITTED COATS, KNITTED CAPS, AND SPORT HOSIERY FOR MEN, WOMEN, AND CHILDREN. HARRY L. PETERZELL, doing business as Onyx Knitting Mills and Hanover Knitting Mills of America, Philadelphia, Pa.
Filed September 22, 1927. Serial No. 255,074. PUBLISHED JUNE 19, 1928. Class 39.

246,705. MALT SYRUP (CANNED). M. H. GERTNER, Columbus, Ohio.
Filed October 17, 1927. Serial No. 256,186. PUBLISHED JUNE 26, 1928. Class 46.

246,706. ICE SKATES. NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill.
Filed October 20, 1927. Serial No. 256,347. PUBLISHED JUNE 19, 1928. Class 22.

246,707. CHILDREN'S PLAY SUITS. A. B. FRANK COMPANY, San Antonio, Tex.
Filed October 22, 1927. Serial No. 256,458. PUBLISHED JUNE 19, 1928. Class 39.

246,708. ZINC AND COPPER PRINTING PLATES, ELECTROTYPES. PONTIAC ENGRAVING & ELECTROTYPE CO., Chicago, Ill.
Filed October 26, 1927. Serial No. 256,637. PUBLISHED JUNE 5, 1928. Class 50.

246,709. ZINC AND COPPER PRINTING PLATES, ELECTROTYPES. PONTIAC ENGRAVING & ELECTROTYPE CO., Chicago, Ill.
Filed October 26, 1927. Serial No. 256,638. PUBLISHED JUNE 5, 1928. Class 50.

246,710. ZINC AND COPPER PRINTING PLATES, ELECTROTYPES. PONTIAC ENGRAVING & ELECTROTYPE CO., Chicago, Ill.
Filed October 26, 1927. Serial No. 256,640. PUBLISHED JUNE 5, 1928. Class 50.

246,711. LADIES' AND CHILDREN'S BLOOMERS, BRASSIÈRES, STEP-INS, PANTIES, DRAWERS, PANTALETTES, CHEMISES, NIGHTGOWNS, AND SLIPS, ALL OF TEXTILE FABRICS. BENJAMIN LASKIN, Philadelphia, Pa.
Filed October 27, 1927. Serial No. 256,675. PUBLISHED JUNE 5, 1928. Class 39.

246,712. DYES. OSCAR L. GABRIEL, doing business as Happie-Easter Dye Company, Brooklyn, N. Y.
Filed October 29, 1927. Serial No. 256,772. PUBLISHED JULY 3, 1928. Class 6.

246,713. ARM BANDS OF COILED WIRE MADE OF BASE METAL AND COATED WITH IMITATION PRECIOUS METAL. THE HEATH SPRING AND NOTION COMPANY LIMITED, Redditch, England.
Filed October 31, 1927. Serial No. 256,823. PUBLISHED JUNE 26, 1928. Class 39.

246,714. SILVER FLATWARE. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y.
Filed November 3, 1927. Serial No. 257,022. PUBLISHED JUNE 26, 1928. Class 28.

246,715. IRON CASTINGS. LOUIS SACKS, INC., doing business as Louis Sacks Iron Foundry, Newark, N. J.
Filed November 7, 1927. Serial No. 257,177. PUBLISHED JUNE 19, 1928. Class 14.

246,716. NECKTIE PRESSES. THE MORTON CO., Chicago, Ill.
Filed November 10, 1927. Serial No. 257,376. PUBLISHED JUNE 19, 1928. Class 50.

246,717. PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, FACE CREAMS, ROUGES, BRILLIANTINE, AND BATH SALTS. ALPHONSE GRAVIER, Neuilly-sur-Seine, France.
Filed April 28, 1928. Serial No. 265,536. PUBLISHED JUNE 26, 1928. Class 6.

246,718. BALM FOR NEURALGIA, SCIATICA, GOUT, PAIN IN THE BACK OR CHEST, AND SORE MUSCLES OR JOINTS. GOODRICH-GAMBLE COMPANY, St. Paul, Minn.
Filed April 28, 1928. Serial No. 265,535. PUBLISHED JUNE 19, 1928. Class 6.

246,719. FACE CREAM. ANTOINE CIERPLIKOWSKI, doing business as Antoine, Paris, France.
Filed April 28, 1928. Serial No. 265,522. PUBLISHED JUNE 19, 1928. Class 6.

246,720. SECONDARY BATTERIES. WESTINGHOUSE UNION BATTERY COMPANY, Swissvale, Pa.
Filed April 27, 1928. Serial No. 265,510. PUBLISHED JUNE 26, 1928. Class 21.

246,721. BRACELETS AND WRIST-WATCH HOLDERS. SMITH & CROSBY, Attleboro, Mass.
Filed April 27, 1928. Serial No. 265,505. PUBLISHED JUNE 26, 1928. Class 28.

246,722. THERAPEUTIC LAMPS. SANITARIUM EQUIPMENT COMPANY, Battle Creek, Mich.
Filed April 27, 1928. Serial No. 265,501. PUBLISHED JUNE 26, 1928. Class 44.

246,723. ADHESIVE MEDICATED PLASTER. HOWARD A. ROWE, Omaha, Nebr.
Filed April 27, 1928. Serial No. 265,499. PUBLISHED JUNE 19, 1928. Class 6.

246,724. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. NOVOROSS & GLASSMAN, New York, N. Y.
Filed April 27, 1928. Serial No. 265,493. PUBLISHED JUNE 26, 1928. Class 28.

246,725. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. FREDERICK C. MAY, New York, N. Y.
Filed April 27, 1928. Serial No. 265,488. PUBLISHED JUNE 26, 1928. Class 28.

246,726. CLOCKS. WILLIAM L. GILBERT CLOCK COMPANY, Winsted, Conn.
Filed April 27, 1928. Serial No. 265,472. PUBLISHED JUNE 26, 1928. Class 27.

246,727. ELECTRICALLY-DRIVEN PORTABLE ELECTRIC BLOWERS, SUCTION CLEANERS, AND SPRAYERS. BREUER ELECTRIC MFG. CO., Chicago, Ill.
Filed April 27, 1928. Serial No. 265,465. PUBLISHED JUNE 26, 1928. Class 21.

246,728. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. WILLIAM BALTER & CO. INC., New York, N. Y.
Filed April 27, 1928. Serial No. 265,463. PUBLISHED JUNE 26, 1928. Class 28.

246,729. SALVE USED IN THE TREATMENT OF CUTS, WOUNDS, SORES, BOILS, AND INFECTIONS. FRANK A. MINKLER, doing business as LaRo-Wax Products, Detroit, Mich.
Filed April 26, 1928. Serial No. 265,442. PUBLISHED JUNE 26, 1928. Class 6.

246,730. PHONOGRAPH RECORDS. I. IONESCU-ARDEAL, Chicago, Ill.
Filed April 26, 1928. Serial No. 265,420. PUBLISHED JUNE 26, 1928. Class 36.

246,731. SPAGHETTI SAUCE. PETER SQUINDO, New Brunswick, N. J.
Filed April 25, 1928. Serial No. 265,414. PUBLISHED JUNE 26, 1928. Class 46.

246,732. PREPARATION FOR THE TREATMENT OF BOILS, STIES, CARBUNCLES, FURUNCLES, FELONS, AND PIMPLES DUE TO STAPHYLOCOCCUS INFECTION. GEORGE W. JINDRICH, doing business as Jindrich's Drug Store, Chicago, Ill.
Filed April 25, 1928. Serial No. 265,385. PUBLISHED JUNE 26, 1928. Class 6.

246,733. DERMATOLOGICAL SULPHUR COMPOUND. THE ICHTHYOL CO., Rahway, N. J.
Filed May 5, 1928. Serial No. 265,968. PUBLISHED JUNE 26, 1928. Class 6.

246,734. DISINFECTANTS. ROCKLAND CHEMICAL CO., Newark, N. J.
Filed May 4, 1928. Serial No. 265,930. PUBLISHED JUNE 19, 1928. Class 6.

246,735. PARASITICIDES. NIAGARA SPRAYER COMPANY, Middleport, N. Y.
Filed May 4, 1928. Serial No. 265,919. PUBLISHED JUNE 19, 1928. Class 6.

246,736. CHOW MEIN NOODLES. LOUIS L. GINSBERG, doing business as Everfresh Chow Mein Co., Minneapolis, Minn.
Filed May 2, 1928. Serial No. 265,790. PUBLISHED JUNE 26, 1928. Class 46.

246,737. DRIED LIMA BEANS, DRIED NAVY BEANS, DRIED PEAS, DRIED LENTILS, POPPY SEED, CARAWAY SEED, POPPING CORN, TAPIOCA, AND COFFEE, AND CANNED GOODS—NAMELY, HOMINY, CORN, RED RASPBERRIES, PEARS, PEACHES, OYSTERS, SALMON, STRING BEANS, WAX BEANS, KIDNEY BEANS, PEAS, PUMPKIN, TOMATOES, AND MALT SYRUP. JOHN F. LALLA COMPANY, Chicago, Ill.
Filed April 30, 1928. Serial No. 265,666. PUBLISHED JUNE 26, 1928. Class 46.

246,738. CANNED OLIVES. A. V. STUART, doing business as A. V. Stuart Olive Canning Co., Ripon, Calif.
Filed April 28, 1928. Serial No. 265,584. PUBLISHED JUNE 26, 1928. Class 46.

246,739. ELECTRICAL APPLIANCES—TO WIT, PERCOLATORS, TOASTERS, AND WAFFLE IRONS. MANNING, BOWMAN & CO., Meriden, Conn.
Filed April 28, 1928. Serial No. 265,554. PUBLISHED JUNE 26, 1928. Class 21.

246,740. DYESTUFFS, DYES, AND RUST-PREVENTING DYES. HEYL-BERINGER FARBENFABRIKEN A.-G., Charlottenburg, Germany.
Filed April 28, 1928. Serial No. 265,542. PUBLISHED JUNE 19, 1928. Class 6.

246,741. RUBBER BALLS, LAWN-TENNIS BALLS, AND FOOTBALL BLADDERS. HELSINGBORGS GUMMIFABRIKS AKTIEBOLAG, Helsingborg, Sweden.
Filed April 28, 1928. Serial No. 265,540. PUBLISHED JUNE 26, 1928. Class 22.

246,742. GENERAL TONIC. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,447. PUBLISHED JUNE 19, 1928. Class 6.

246,743. MINERAL OIL FOR MEDICINAL USE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,449. PUBLISHED JUNE 19, 1928. Class 6.

246,744. OINTMENT FOR BURNS, SCALDS, BRUISES, SPRAINS, CUTS, CHAPPED HANDS, SUNBURN, HAY FEVER, CROUP, CATARRH, PILES, INSECT BITES, AND PAINS AND INFLAMMATION OF ALL KINDS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,451. PUBLISHED JUNE 19, 1928. Class 6.

246,745. GENERAL TONIC. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,453. PUBLISHED JUNE 19, 1928. Class 6.

246,746. METAL PRINTING PLATES AND METAL PRINTING BLOCKS. PANTONE PROCESSES LIMITED, London, England.
Filed April 6, 1928. Serial No. 264,472. PUBLISHED JUNE 19, 1928. Class 50.

246,747. METAL PRINTING PLATES AND METAL PRINTING BLOCKS. PANTONE PROCESSES LIMITED, London, England.
Filed April 6, 1928. Serial No. 264,476. PUBLISHED JUNE 19, 1928. Class 50.

246,748. MOTOR-LUBRICATING OILS. CALIFORNIA PETROLEUM CORPORATION, Los Angeles, Calif.
Filed April 7, 1928. Serial No. 264,506. PUBLISHED JUNE 19, 1928. Class 15.

246,749. BATH ROBES AND SLIPPERS OF TEXTILE FABRIC. ROYAL ROBES, INC., New York, N. Y.
Filed April 9, 1928. Serial No. 264,608. PUBLISHED JUNE 26, 1928. Class 39.

246,750. VIBRATORY MASSAGE APPARATUS. WESTING APPLIANCE CO., Wheeling, W. Va.
Filed April 9, 1928. Serial No. 264,621. PUBLISHED JUNE 26, 1928. Class 44.

246,751. FINGER RINGS, BRACELETS, PENDANTS, SCARFPINS, BROOCHES, EARRINGS, AND SAUTOIRS. WILLIAM KINSCHERF COMPANY, INC., New York, N. Y.
Filed April 9, 1928. Serial No. 264,625. PUBLISHED JUNE 19, 1928. Class 28.

246,752. PAINTS, VARNISHES, PAINT OILS, KALSOMINES, AND PYROXYLIN LACQUERS. LAMPTON, CRANE & RAMEY CO., Louisville, Ky.
Filed April 9, 1928. Serial No. 264,629. PUBLISHED JUNE 19, 1928. Class 16.

246,753. JEWELRY FOR PERSONAL WEAR AND ORNAMENTAL SHIELDS, NOT INCLUDING WATCHES. BETA PI THETA FRATERNITY, Hartsville, S. C.
Filed April 10, 1928. Serial No. 264,633. PUBLISHED JUNE 19, 1928. Class 28.

246,754. PIGEON HEALTH GRIT. ALBERT G. HAUSAM, Sedalia, Mo.
Filed April 10, 1928. Serial No. 264,642. PUBLISHED JUNE 12, 1928. Class 1.

246,755. BOOTS AND SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. BRESNAHAN SHOE COMPANY, Boston, Mass.
Filed April 11, 1928. Serial No. 264,668. PUBLISHED JUNE 26, 1928. Class 39.

246,756. STORAGE BATTERIES. BIG-BOY PRODUCTS CO., New York, N. Y.
Filed April 12, 1928. Serial No. 264,711. PUBLISHED JUNE 19, 1928. Class 21.

246,757. CUFF LINKS, GOLD AND SILVER PLATED COLLAR BUTTONS, SCARFPINS, DRESS PINS, BROOCHES, WATCH CHAINS, NECKLACES, EARRINGS, GOLD AND SILVER PLATED TIE CLASPS AND SNAP LINKS, LADIES' AND MEN'S FINGER RINGS. PRESIDENT NOVELTY & JEWELRY CO., INC., New York, N. Y.
Filed April 13, 1928. Serial No. 264,776. PUBLISHED JUNE 26, 1928. Class 28.

246,758. JEWELRY FOR PERSONAL WEAR CONSISTING OF FRATERNITY PINS, BADGES, MADE OF OR PLATED WITH PRECIOUS METALS AND ENAMEL. FRATERNITY OF PHI GAMMA DELTA, Washington, D. C.
Filed April 12, 1928. Serial No. 264,719. PUBLISHED JUNE 26, 1928. Class 28.

246,759. SECONDARY BATTERIES. WESTINGHOUSE UNION BATTERY COMPANY, Swissvale, Pa.
Filed April 13, 1928. Serial No. 264,788. PUBLISHED JUNE 26, 1928. Class 21.

246,760. SPARK PLUGS. THE B. G. CORPORATION, New York, N. Y.
Filed April 14, 1928. Serial No. 264,799. PUBLISHED JUNE 19, 1928. Class 21.

246,761. SHOE-SOLE LEATHER. DRISOLE TANNING COMPANY, Cudahy, Wis.
Filed April 18, 1927. Serial No. 247,602. PUBLISHED JUNE 19, 1928. Class 1.

246,762. TIMERS FOR INTERNAL-COMBUSTION ENGINES. ELLING O. WEEKS, doing business as Dynamo Timer Co., Milwaukee, Wis.
Filed April 9, 1927. Serial No. 247,232. PUBLISHED JUNE 26, 1928. Class 21.

246,763. REFRIGERATORS. THE ALASKA REFRIGERATOR COMPANY, Muskegon, Mich.
Filed May 16, 1928. Serial No. 266,449. PUBLISHED JUNE 26, 1928. Class 31.

246,764. DISINFECTANT. CEDARWOOD FUMI-TEURS CORPORATION, Atlanta, Ga.
Filed May 12, 1928. Serial No. 266,299. PUBLISHED JUNE 26, 1928. Class 6.

246,765. LIQUID INSECTICIDE. SLOAN CHEMICAL COMPANY, INCORPORATED, St. Paul, Minn.
Filed May 11, 1928. Serial No. 266,278. PUBLISHED JUNE 26, 1928. Class 6.

246,766. HOUSEHOLD INSECTICIDE AND DEODORANT. BONIDE CHEMICAL CO., Utica, N. Y.
Filed May 8, 1928. Serial No. 266,079. PUBLISHED JUNE 26, 1928. Class 6.

246,767. MALT SYRUP. NATHAN WASSERSTROM, doing business as Owl Products Company, Columbus, Ohio.
Filed May 7, 1928. Serial No. 266,065. PUBLISHED JUNE 26, 1928. Class 46.

246,768. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed May 7, 1928. Serial No. 266,054. PUBLISHED JUNE 26, 1928. Class 46.

246,769. PAINT ENAMEL. CAPITOL PAINT & VARNISH WORKS, INC., New York and Brooklyn, N. Y.
Filed May 7, 1928. Serial No. 266,017. PUBLISHED JUNE 19, 1928. Class 16.

246,770. VARNISH. CAPITOL PAINT & VARNISH WORKS, INC., New York and Brooklyn, N. Y.
Filed May 7, 1928. Serial No. 266,016. PUBLISHED JUNE 19, 1928. Class 16.

246,771. HANDKERCHIEFS. MARY RHYME WEBB, doing business as Hickory Handkerchief Company, Hickory, N. C.
Filed May 5, 1928. Serial No. 266,001. PUBLISHED JUNE 19, 1928. Class 42.

246,772. MEN'S AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS. THE HILTON COMPANY, INC., Newark, N. J.
Filed July 27, 1927. Serial No. 252,601. PUBLISHED JUNE 5, 1928. Class 39.

246,773. POULTRY, HORSE, STOCK, AND DAIRY FEEDS. ATCO FEED & SUPPLY CO., Atco, N. J.
Filed August 2, 1927. Serial No. 252,878. PUBLISHED JUNE 26, 1928. Class 46.

246,774. PAINTS, PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed July 26, 1927. Serial No. 252,572. PUBLISHED JUNE 19, 1928. Class 16.

246,775. LADIES' CHEMISES, PRINCESS SLIPS, BLOOMERS, STEP-INS, AND NIGHTGOWNS OF A TEXTILE FABRIC. I. SCHNEIERSON & SON, New York, N. Y.
Filed July 20, 1927. Serial No. 252,349. PUBLISHED JUNE 5, 1928. Class 39.

246,776. LADIES' CHEMISES, PRINCESS SLIPS, BLOOMERS, STEP-INS, AND NIGHTGOWNS OF A TEXTILE FABRIC. I. SCHNEIERSON & SON, New York, N. Y.
Filed July 20, 1927. Serial No. 252,348. PUBLISHED JUNE 5, 1928. Class 39.

246,777. OLIVES, SALAD DRESSING, MINCEMEAT, RICE, ROLLED OATS, CORNSTARCH, MACARONI, SPAGHETTI, NOODLES, BUCKWHEAT FLOUR, PASTRY FLOUR, GRAHAM FLOUR, PANCAKE FLOUR; TABLE MEAL—NAMELY, CORN MEAL; CATSUP, TEA, AND COFFEE. SCOVILLE, BROWN & COMPANY, Wellsville, N. Y.
Filed May 31, 1927. Serial No. 249,813. PUBLISHED JUNE 19, 1928. Class 46.

246,778. CERTAIN NAMED WEARING APPAREL. GIMBEL BROTHERS, INC., New York, N. Y.; Philadelphia, Pa.; Milwaukee, Wis.; and Pittsburgh, Pa.
Filed May 27, 1927. Serial No. 249,655. PUBLISHED JUNE 5, 1928. Class 39.

246,779. WASHING BLUE. JOSEPH I. DIAMOND, Philadelphia, Pa.
Filed May 21, 1927. Serial No. 249,345. PUBLISHED JUNE 26, 1928. Class 6.

246,780. SCARFS. MANVILLE JENCKES CO., Pawtucket, R. I.
Filed April 25, 1927. Serial No. 247,957. PUBLISHED JUNE 5, 1928. Class 39.

246,781. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. FRATERNITY OF ALPHA ZETA, Marshall, Ill.
Filed April 19, 1927. Serial No. 247,685. PUBLISHED JUNE 26, 1928. Class 28.

246,782. BASEBALL GLOVES. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed September 14, 1927. Serial No. 254,738. PUBLISHED JUNE 19, 1928. Class 22.

246,783. LIVER EXTRACT AND HEMOGLOBIN COMPOUND. CHAPPEL BROS., INC., Rockford, Ill.
Filed August 25, 1927. Serial No. 253,938. PUBLISHED JULY 3, 1928. Class 6.

246,784. ICE. CAROLINA-GEORGIA SERVICE COMPANY, Anderson, S. C.
Filed April 14, 1928. Serial No. 264,804. PUBLISHED JUNE 26, 1928. Class 1.

246,785. LADIES' HOSIERY. SMITH, KIRKPATRICK & CO., INC., New York, N. Y.
Filed January 28, 1928. Serial No. 260,856. PUBLISHED JUNE 5, 1928. Class 39.

246,786. HAND KNITTING SETS FOR USE BY INDIVIDUALS, EACH SET COMPRISING PREPARED KNITTING BOARDS PROVIDED WITH HOOKS, KNITTING PINS, CROCHET HOOKS, AND DARNING NEEDLES. S. B. & B. W. FLEISHER, INC., Philadelphia, Pa.
Filed January 24, 1928. Serial No. 260,564. PUBLISHED JUNE 26, 1928. Class 40.

246,787. ANTISEPTIC SOLUTION. E. B. WITTE, doing business as Heal-Ol Laboratories, Trenton, N. J.
Filed January 18, 1928. Serial No. 260,302. PUBLISHED JULY 3, 1928. Class 6.

246,788. WOMEN'S SHOES MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF. SHU-STILES, INCORPORATED, St. Louis, Mo.
Filed January 16, 1928. Serial No. 260,195. PUBLISHED APRIL 24, 1928. Class 39.

246,789. WOMEN'S AND MISSES' DRESSES. I. MITTELMAN & CO. INC., New York, N. Y.
Filed January 16, 1928. Serial No. 260,187. PUBLISHED JUNE 5, 1928. Class 39.

246,790. NUTRITIVE FOOD TONIC. MENLEY & JAMES, LIMITED, New York, New York, N. Y.
Filed January 16, 1928. Serial No. 260,183. PUBLISHED JUNE 26, 1928. Class 6.

246,791. WATCHCASES. BENJAMIN GOLDSMID, New York, N. Y.
Filed January 16, 1928. Serial No. 260,174. PUBLISHED JUNE 26, 1928. Class 27.

246,792. WATCHCASES. SAMUEL WEINTRAUB, New York, N. Y.
Filed January 14, 1928. Serial No. 260,153. PUBLISHED JUNE 19, 1928. Class 27.

246,793. CERTAIN NAMED WEARING APPAREL. P. CENTEMERI & Co., New York, N. Y.
Filed January 14, 1928. Serial No. 260,093. PUBLISHED JUNE 5, 1928. Class 39.

246,794. CERTAIN NAMED WEARING APPAREL. P. CENTEMERI & Co., New York, N. Y.
Filed January 14, 1928. Serial No. 260,089. PUBLISHED JUNE 12, 1928. Class 39.

246,795. EGGS. ARTHUR H. KISKER, doing business as Arthur H. Kisker & Co., Cincinnati, Ohio.
Filed January 12, 1928. Serial No. 260,021. PUBLISHED JUNE 19, 1928. Class 46.

246,796. WOMEN'S, MISSES', AND CHILDREN'S HATS, CAPS, HAT FRAMES, HAT LININGS. CHARLES MOFFET AND M. SHAPIRO, INC., New York, N. Y.
Filed January 4, 1928. Serial No. 259,686. PUBLISHED JUNE 5, 1928. Class 39.

246,797. DRESSES FOR WOMEN. MARKWETT Co., Boston, Mass.
Filed December 30, 1927. Serial No. 259,500. PUBLISHED MAY 29, 1928. Class 39.

246,798. LEATHER GLOVES AND WOOLEN SPORT GLOVES. STERN BROTHERS, New York, N. Y.
Filed December 28, 1927. Serial No. 259,430. PUBLISHED JUNE 5, 1928. Class 39.

246,799. LADIES' HAND BAGS AND POCKETBOOKS. MAX SHENFELD, doing business as Shenfeld Leather Goods Co., New York, N. Y.
Filed December 27, 1927. Serial No. 259,376. PUBLISHED JUNE 19, 1928. Class 3.

246,800. SHOES MADE FROM LEATHERS AND SATINS AND FABRICS. SHIPLEY & SONS, Philadelphia, Pa.
Filed December 19, 1927. Serial No. 259,141. PUBLISHED JUNE 12, 1928. Class 39.

246,801. LADIES' AND MISSES' HATS. CONSOLIDATED MILLINERY COMPANY, Chicago, Ill.
Filed December 12, 1927. Serial No. 258,797. PUBLISHED JUNE 12, 1928. Class 39.

246,802. WOMEN'S SHOES. HUB SHOE COMPANY, Boston, Mass.
Filed November 22, 1927. Serial No. 257,927. PUBLISHED JUNE 12, 1928. Class 39.

246,803. HOPS. DAVID NASSIF, doing business as Home Products Company, Springfield, Mass.
Filed November 15, 1927. Serial No. 257,594. PUBLISHED JUNE 19, 1928. Class 1.

246,804. TOOTH CROWNS. THE BERRY DENTAL LABORATORY Co., St. Louis, Mo.
Filed November 11, 1927. Serial No. 257,399. PUBLISHED JUNE 19, 1928. Class 44.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

246,805. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ANNETTA MOELLER WILSON, doing business as The Manicurex Company, Indianapolis, Ind. Filed Apr. 21, 1926. Serial No. 230,506.

NAIL FLOSS



For Cord for Cleaning, Bleaching, and Removing Stains Underneath the Finger Nails.
Claims use since June 25, 1919.

246,806. (CLASS 25. LOCKS AND SAFES.) SAMUEL P. YEO, doing business as The Bank Vault Inspection Company, Philadelphia, Pa. Filed Mar. 24, 1927. Serial No. 246,319.



For Rotary Safes, Keys, Locks, Entrance Deposit Safes and Vaults, Receiving Safes and Vaults.
Claims use since Feb. 4, 1927.

246,807. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEORGE STARR WHITE, Los Angeles, Calif. Filed Feb. 1, 1928. Serial No. 261,026.

VALENS BIO-DYNAMO

For Magnetic Medical Apparatus for Therapy Consisting of Normalizers or Applicators—Namely, Magnets and Electromedical Apparatus for Diagnosis and Therapy by Light Vibrations and Termed Chromes.
Claims use since November, 1924.

246,808. (CLASS 39. CLOTHING.) HARRY C. CHANDLER, Greensboro, N. C. Filed Mar. 30, 1928. Serial No. 264,014.

Modern

For Dress Shirts, Men's Underwear of Textile Fabric, and Pajamas.
Claims use since March, 1926.

246,809. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SHOE LACE COMPANY, LTD., Providence, R. I. Filed July 11, 1928. Serial No. 269,431.



For Shoe Lacings.
Claims use since about Oct. 1, 1925.

246,810. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) COLEBROOKDALE IRON COMPANY, Colebrookdale, Pa. Filed June 9, 1928. Serial No. 267,755.

SUPERIOR

For Gas Flatirons.
Claims use since Jan. 12, 1917.

246,811. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HOLMES-DARST COAL COMPANY, Cincinnati, Ohio. Filed May 31, 1928. Serial No. 267,255.

CORLEW

For Coal.
Claims use since Nov. 11, 1922.

246,812. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PARROT SPEED FASTENER CORPORATION, New York, N. Y. Filed May 19, 1928. Serial No. 266,683.

SPEED FASTENER

For Machines and Tools for Fastening Together Sheets of Paper and Similar Sheet Material and for Stapling Wire Screening and Fencing and for Other Stapling Purposes.
Claims use since May 15, 1926.

246,813. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EXCELL LABORATORIES, Chicago, Ill. Filed Mar. 19, 1928. Serial No. 263,381.

ZENKE'S

For Insecticides and a Liquid Fungicide.
Claims use since about 1915.

246,814. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Mar. 13, 1928. Serial No. 263,087.

AUBURN

For Shoe Lacings, Corset Lacings, Underwear Lacings, Blouse Lacings, Tapes, Beltings, Bindings, Galloons, and Bandings, All of Which are Woven or Braided of Cotton, Rayon, Silk, or Worsted.
Claims use since May, 1919.

246,815. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ACME MANUFACTURING CO., Providence, R. I. Filed Sept. 6, 1927. Serial No. 254,374.

PRESS-IT

For Pyrophoric Pocket Cigar Lighters.
Claims use since July 15, 1927.

246,816. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARDWICK & MAGEE COMPANY, Philadelphia, Pa. Filed Aug. 22, 1927. Serial No. 253,802.

MONROE

For Textile Carpets.
Claims use since Aug. 4, 1927.

246,817. (CLASS 39. CLOTHING.) MAX HYMAN & SON, INC., New York, N. Y. Filed Aug. 20, 1927. Serial No. 253,756.

BRANTOME

For Shirts, Coats, Jackets, Capes, Wind-Breakers, Blouses, Caps, Hats, Leggins, and Spats Made of Leatherette for Men, Boys, Girls, and Women.
Claims use since June, 1927.

246,818. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COX BAKING CO., INC., Dover, Del. Filed July 13, 1927. Serial No. 251,954.

"SQUARECUPS"

For Cakes.
Claims use since June 24, 1927.

246,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COX BAKING CO., INC., Dover, Del., and Jamaica, N. Y. Filed July 27, 1927. Serial No. 252,589.

"LOV-LY CAKE"

For Cakes.
Claims use since July 11, 1927.

246,820. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARSHAK MALTMOLAK CO. INC., Brooklyn, N. Y. Filed Nov. 30, 1926. Serial No. 240,787.

PUFFY

For Marshmallow Bars.
Claims use since about Nov. 6, 1926.

246,821. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES W. DEES, doing business as C. W. Dees Manufacturing Company, Ellensburg, Wash. Filed Oct. 19, 1926. Serial No. 238,842.

DEES
ANTISEPTIC
LIQUID
COURT
PLASTER

For Antiseptic Liquid Court Plaster.
Claims use since Apr. 1, 1925.

LABELS

REGISTERED SEPTEMBER 11, 1928.

34,546.—*Title:* BANNER MILK. For Unsweetened Evaporated Milk. CHALLENGE CREAM AND BUTTER ASSOCIATION, Los Angeles, Calif. Published May 20, 1928.

34,547.—*Title:* FRISCH PROCESS. For Bread. EMILE FRISCH, Chicago, Ill. Published June 30, 1928.

34,548.—*Title:* BRAV SHOE CO. INC. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 10, 1928.

34,549.—*Title:* DR. SHIBE'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 10, 1928.

34,550.—*Title:* DICKSON-IVES COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 17, 1928.

34,551.—*Title:* GILCHRIST'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 5, 1928.

34,552.—*Title:* PROSPERITY SHOE CO. INC. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 5, 1928.

34,553.—*Title:* LITVACK SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 17, 1928.

34,554.—*Title:* WHIDDON'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 23, 1928.

34,555.—*Title:* HENRI BOOT SHOP. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 9, 1928.

34,556.—*Title:* THE FRENCH BOOTERY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 1, 1928.

34,557.—*Title:* HAGEMAN'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 28, 1928.

34,558.—*Title:* SAXON CULLUM SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 14, 1928.

34,559.—*Title:* C. E. STONE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 16, 1928.

34,560.—*Title:* PARISIAN STYLE BY MAURICE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 10, 1928.

34,561.—*Title:* THE GUARANTEE SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 31, 1928.

34,562.—*Title:* THAYER McNEIL COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 12, 1928.

34,563.—*Title:* CARCION MANFRE & CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 8, 1928.

34,564.—*Title:* CROWLEY MILNER & CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 28, 1928.

34,565.—*Title:* SARDINOLA. For Canned Sardines. K. HOVDEN CO., Monterey, Calif. Published July 25, 1928.

34,566.—*Title:* 80 AND 20—100%. For Prepared Paint. J. F. KURFEES PAINT COMPANY, INC., Louisville, Ky. Published August 6, 1928.

34,567.—*Title:* 55 BRAND. For General Merchandise. LEON PAUL LEWANDOWSKI, Columbus, Nebr. Published January 7, 1928.

34,568.—*Title:* LUSH'US BRAND PEAS. For Peas. LUSH'US PRODUCTS CO., Chicago, Ill. Published June 15, 1928.

34,569.—*Title:* NOPCO COD LIVER OIL. For Cod-Liver Oil for Poultry and Animal Feeding. NATIONAL OIL PRODUCTS COMPANY, INC., Harrison, N. J. Published July 7, 1928.

34,570.—*Title:* GREAT COVERING POWER. For Paints. OLD GOLD COMBINATION WHITE LEAD & COLOR CORPORATION, New York, N. Y. Published June 25, 1928.

34,571.—*Title:* OLD GOLD WHITE LEAD. For Paint. OLD GOLD COMBINATION WHITE LEAD & COLOR CORPORATION, New York, N. Y. Published June 25, 1928.

34,572.—*Title:* OLD GOLD ZINC LEAD. For Paint. OLD GOLD COMBINATION WHITE LEAD & COLOR CORPORATION New York, N. Y. Published June 25, 1928.

34,573.—*Title:* TRUMP COOKIES. For Cookies. PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Published June 25, 1928.

34,574.—*Title:* PERFECT NUTRITION. For a Preparation of Dehydrated Vegetables. PERFECT NUTRITION COMPANY, San Francisco, Calif. Published June 20, 1928.

34,575.—*Title:* QUEEN'S DESSERT. For a Dessert Preparation. QUEENS LABORATORIES, Cleveland, Ohio. Published June 1, 1928.

34,576.—*Title:* SKOVBO. For Honey. J. J. SKOVBO, doing business as Skovbo Apiaries, Hermiston, Oreg. Published December 9, 1927.

34,577.—*Title:* TEX SANDWICH LOAF. For Bread. TEXAS BREAD COMPANY, Houston, Tex. Published April 18, 1928.

34,578.—*Title:* DIXIE MADE ROLLS. For Rolls. TEXAS BREAD COMPANY, Houston, Tex. Published June 23, 1928.

34,579.—*Title:* WHITING'S CRANFORD VELLUM. For Stationery. WHITING PAPER COMPANY, Holyoke, Mass. Published March 26, 1926.

34,580. —*Title:* BUTTER BAKT. For Bread. THE ZAKAS BAKERY, Atlanta, Ga. Published March 20, 1928.

PRINTS

REGISTERED SEPTEMBER 11, 1928.

11,206.—*Title:* THE KING'S MESSENGER RODE FAR BEARING THE ILLUMINATED SCROLLS OF HIS ROYAL MASTER. For Personal Stationery. BLACK, STARR & FROST, New York, N. Y. Published August 11, 1928.

11,207.—*Title:* FOR THE HOT DAYS AHEAD. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published July 10, 1928.

11,208.—*Title:* HERE'S WHY HANOVER SHIRTS ARE SUPERIOR. For Shirts. HANOVER SHIRT COMPANY, Baltimore, Md. Published July 21, 1928.

11,209.—*Title:* DYNAMIQUE CREATIONS. For Wooden Household Furniture. JOHNSON-HANDLEY-JOHNSON COMPANY, Grand Rapids, Mich. Published March 1, 1928.

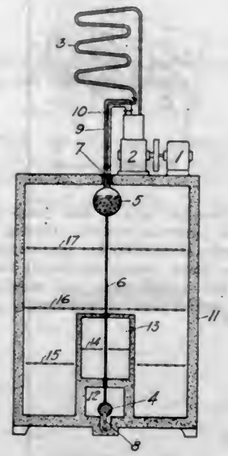
11,210.—*Title:* SAY KECKS. For a Beverage—Namely, Cocoa. WILL G. KECK, Mount Pleasant, Pa. Published May 10, 1928.

11,211.—*Title:* SYFO. For Valves. UNITED PRODUCTS COMPANY, Cleveland, Ohio. Published June 13, 1928.

REISSUES

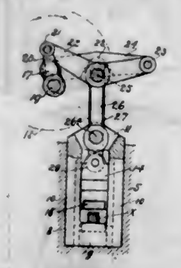
SEPTEMBER 11, 1928.

17,078. HEAT ENGINE. RANSOM W. DAVENPORT, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 31, 1927. Serial No. 244,032. Original application filed Nov. 29, 1922, Serial No. 603,998. Divided and application filed Apr. 25, 1924, Serial No. 708,936. Original No. 1,619,195, dated March 1, 1927. 27 Claims. (Cl. 62—116.)



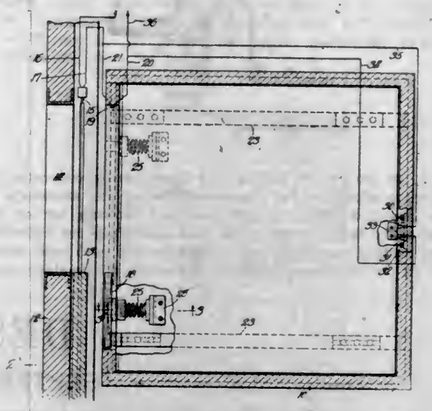
17. A refrigerator having insulated walls and an elongate refrigerating element vertically disposed therein, and means causing said element to absorb heat from said refrigerator at upwardly spaced points on said element at progressively higher temperatures.

17,079. BLOOM SHEARS. JOHANN HAHN, Cleveland, Ohio. Filed Sept. 2, 1926. Serial No. 133,287. Original No. 1,538,635, dated May 19, 1925, Serial No. 732,489, filed Aug. 16, 1924. 15 Claims. (Cl. 164—47.)



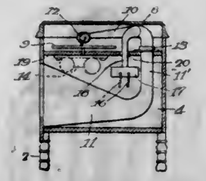
1. In a bloom shear, a shear housing, upper and lower knife carriers movable in the housing, a knife carried by each of said carriers, and interfitting parts on said carriers slidably engaging each other whereby one carrier may be slidably engaged on the other and each movable with respect to the other, said interfitting parts serving to hold the carriers against spreading and preventing strains being transmitted to the housing, and means for moving each carrier with respect to the other.

17,080. ELEVATOR PLATFORM. JOSEPH RICE, Chicago, Ill., assignor to Elevator Company of America, Chicago, Ill., a Corporation of Illinois. Filed June 25, 1928. Serial No. 288,212. Original No. 1,623,977, dated Apr. 12, 1927, Serial No. 122,367, filed July 14, 1926. 12 Claims. (Cl. 187—29.)



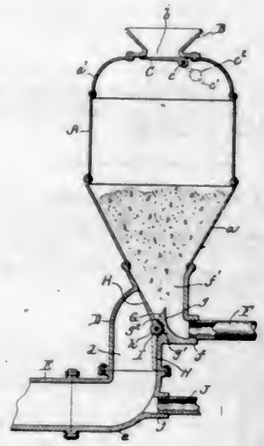
5. A car having a framework, a movable floor carried by said framework, car control mechanism responsive to the position of said floor, means for movably carrying said floor on said framework, said means including a pair of parallel inclined runways and balls interposed between said runways, and a recoil spring tending to move said framework upwardly upon said runway.

17,081. COMBINED RADIOPHONE AND PHONOGRAPH. ROBERT GORDON FRENCH, Oak Park, Ill., assignor to William O. Belt, Chicago, Ill. Filed Nov. 10, 1925. Serial No. 68,234. Original No. 1,514,897, dated Nov. 11, 1924, Serial No. 553,527, filed Apr. 17, 1922. 2 Claims. (Cl. 179—100.1.)



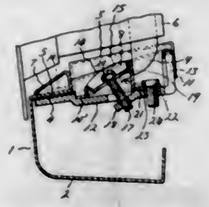
1. A device of the type described comprising a casing, a partition in said casing, a phonograph tone arm carried by said partition, said partition having a slot therein, a second tone arm in communication with said first named tone arm and projecting through said slot and a radiophone reproducing member carried by said second named tone arm.

17,082. ART OF MIXING CONCRETE AND TRANSPORTING THE SAME. KARL R. SCHUSTER, Hopatcong, N. J. Filed Dec. 23, 1926. Serial No. 156,747. Original No. 1,553,476, dated Sept. 15, 1925, Serial No. 88,770, filed Apr. 4, 1916. 24 Claims. (Cl. 83—73.)



1. In the art of mixing and transporting concrete, the process which consists in accumulating the materials to be mixed within a closed chamber; blowing air or gas upwardly into contact with said materials for agitating and mixing the same and simultaneously with said inflow of air or gas restraining the materials to preclude their exit from the chamber and restraining, also, the exit from said chamber of the inflowing air or gas; continuing the inflow of air or gas upwardly through the material until it attains a desired pressure upon the mixed mass; releasing the mixed mass from restraint and expelling the same from said chamber solely by the pressure of air or gas accumulated therein, and by a continuance of said inflow of gas and moving the mixed mass to a place of use by air or gas pressure applied to said mass.

17,083. ADJUSTABLE STRIKER PLATE. EVERETT E. LUNDBERG, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 13, 1928. Serial No. 254,069. Original No. 1,630,533, dated May 31, 1927, Serial No. 677, filed Jan. 5, 1925. 19 Claims. (Cl. 292—340.)

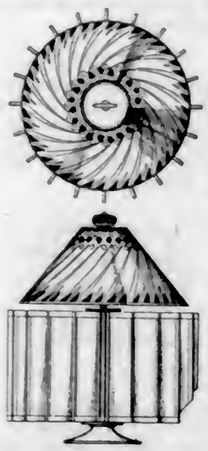


1. The combination with a door jamb having an opening therein, of a retainer plate bridging the opening, a sheet metal wedge-shaped striker plate adjustably mounted on the retainer plate, means carried by the retainer plate for adjusting the striker plate, and means also carried by the retainer plate for holding said striker plate in adjusted position.

DESIGNS

SEPTEMBER 11, 1928.

76,278. BRIDGE-LAMP DISPLAY FIXTURE. ALFRED G. ANDERSON, New York, N. Y. Filed June 26, 1928. Serial No. 27,292. Term of patent 3½ years.



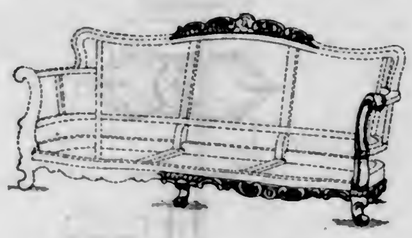
The ornamental design for a bridge lamp display fixture, as shown.

76,279. TRAVELING BAG. LESTER BARTZ, Detroit, Mich., assignor to The Beals & Selkirk Trunk Co., Wyandotte, Mich., a Corporation of Michigan. Filed Oct. 24, 1927. Serial No. 23,859. Term of patent 14 years.



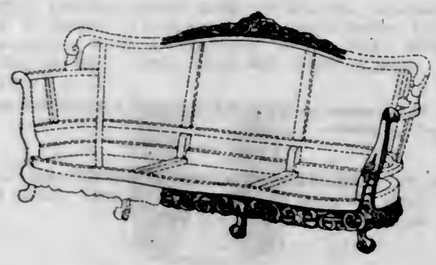
The ornamental design for a traveling bag, as shown.

76,280. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1927. Serial No. 24,719. Term of patent 3½ years.



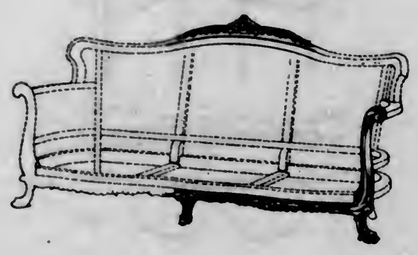
The ornamental design for a settee frame or similar article as shown and described.

76,281. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1927. Serial No. 24,720. Term of patent 3½ years.



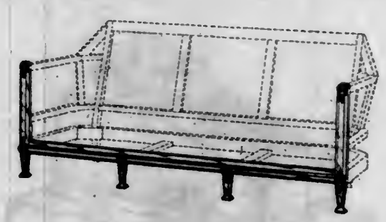
The ornamental design for a settee frame or similar article as shown and described.

76,282. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 10, 1928. Serial No. 24,797. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown and described.

76,283. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1928. Serial No. 27,458. Term of patent 3½ years.



The ornamental design for a settee frame or similar article, as shown.

76,284. RUG. STELLA BRANDT, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed June 11, 1928. Serial No. 27,074. Term of patent 3½ years.



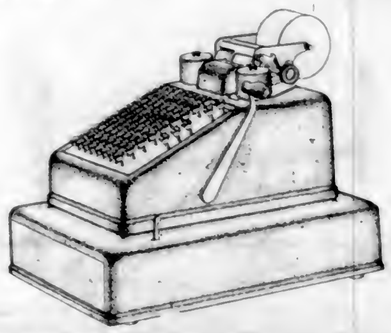
The ornamental design for a rug, as shown and described.

76,285. SHAKER OR SIMILAR ARTICLE. HOWARD L. BUDD, Brooklyn, N. Y. Filed Apr. 9, 1928. Serial No. 26,195. Term of patent 7 years.



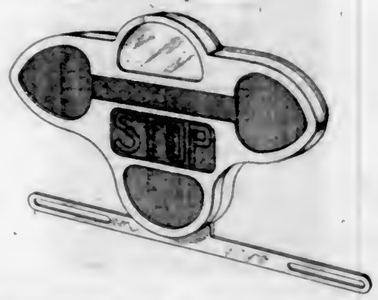
The ornamental design for a shaker or similar article as shown.

76,286. CASH REGISTER. THOMAS M. BUTLER, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 7, 1928. Serial No. 25,728. Term of patent 14 years.



The ornamental design for a cash register as shown.

76,287. VEHICLE SIGNAL. OLIVER A. COPPLE, Cushing, Okla. Filed Dec. 5, 1927. Serial No. 24,384. Term of patent 7 years.



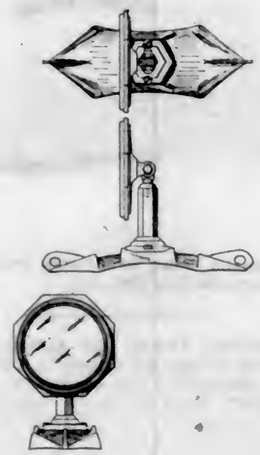
The ornamental design for a vehicle signal as shown.

76,288. TEXTILE FABRIC. FREDERICK DOUGLASS COPPOCK, Greenville, Ohio. Filed May 11, 1927. Serial No. 21,930. Term of patent 3½ years.



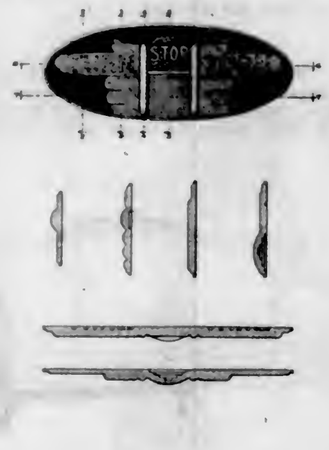
The ornamental design for a textile fabric, as shown and described.

76,289. COMBINED MIRROR AND SUPPORT. SAMUEL U. CARON, Chicago, Ill. Filed Mar. 19, 1927. Serial No. 21,208. Term of patent 3½ years.



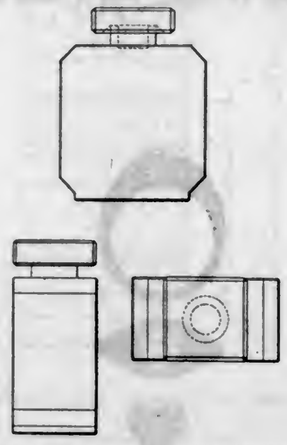
The ornamental design for a combined mirror and support, as shown.

76,290. VEHICLE-LAMP CLOSURE PLATE. FRANK T. CARR, Hardwick, Vt. Filed Mar. 28, 1928. Serial No. 26,037. Term of patent 3½ years.



The ornamental design for a vehicle lamp closure plate, as shown.

76,291. BOTTLE. BERNARD D'ESCAYRAC, New York, N. Y., assignor to Guerlain Perfumery Corporation of New York, a Corporation of New York. Filed May 1, 1928. Serial No. 26,522. Term of patent 14 years.



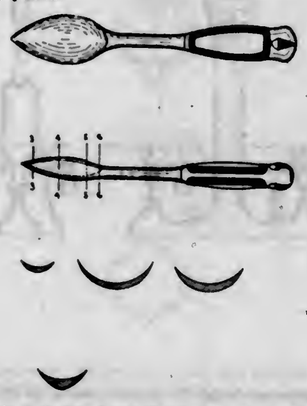
The ornamental design for a bottle substantially as shown.

76,292. BELT BUCKLE. ROBERT F. EICHNER, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed May 16, 1928. Serial No. 26,703. Term of patent 7 years.



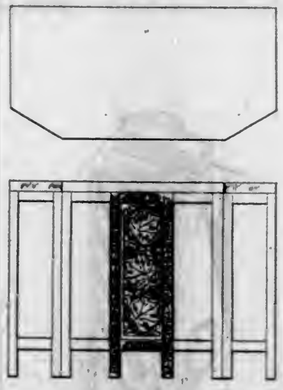
The ornamental design for a belt buckle, as shown.

76,293. DIPPING SPOON. JOSEPH EVANS, Youngstown, Ohio. Filed Mar. 17, 1928. Serial No. 25,890. Term of patent 7 years.



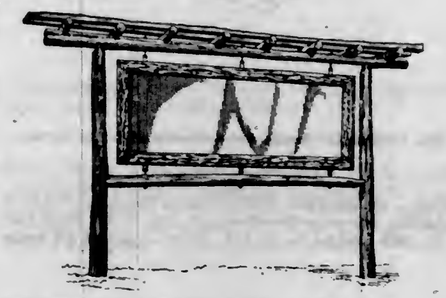
The original design for a dipping spoon, as shown.

76,294. RADIATOR INCLOSURE. JOHN FITZPATRICK, Astoria, N. Y. Filed Mar. 20, 1928. Serial No. 25,928. Term of patent 7 years.



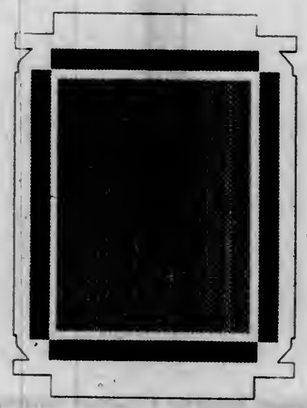
The ornamental design for a radiator inclosure, as shown and described.

76,295. SIGN. HARRY C. GAMMETER, Cleveland Heights, Ohio. Filed Oct. 7, 1927. Serial No. 23,662. Term of patent 8½ years.



The ornamental design for a sign, as shown.

76,296. BOX BLANK OR SIMILAR ARTICLE. LOUIS H. GEBHART, Dayton, Ohio, assignor to The Gebhart Folding Box Company, Dayton, Ohio, a Corporation of Ohio. Filed May 17, 1928. Serial No. 26,710. Term of patent 14 years.



The ornamental design for a box blank or similar article, as shown.

76,297. DISPLAY STAND. BERTRAM B. GEYER, Oakwood, Ohio. Filed June 8, 1928. Serial No. 27,050. Term of patent 3½ years.



The ornamental design for a display stand as shown.

76,298. COMBINED FOUNTAIN PEN AND WATCH-CASE. ABRAHAM GRABELSKY, Bronx, N. Y. Filed June 13, 1928. Serial No. 27,115. Term of patent 3½ years.



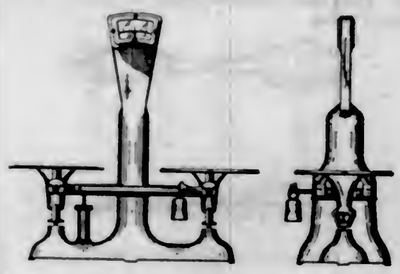
The ornamental design for a combined fountain pen and watchcase, as shown.

76,299. FINGER RING. SAMUEL GROSSMAN, New York, N. Y., assignor to David Klebanoff and Samuel Grossman, Copartners, trading under the firm name and style of Klebanoff and Grossman, New York, N. Y. Filed June 30, 1927. Serial No. 22,620. Term of patent 3½ years.



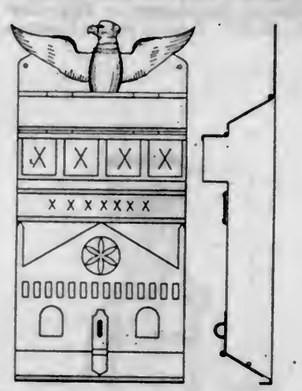
The ornamental design for a finger ring as shown.

76,300. SCALE CASING. HARLAN A. HADLEY, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed Jan. 11, 1928. Serial No. 24,808. Term of patent 14 years.



The ornamental design for a scale casing, as shown.

76,301. MAIL BOX. LOUIS HARRIS, Birmingham, Ala. Filed June 6, 1928. Serial No. 27,010. Term of patent 14 years.



The ornamental design for a mail box substantially as shown.

76,302. ASH TRAY. ROBERT L. HUBBARD, New York, N. Y. Filed July 5, 1928. Serial No. 27,392. Term of patent 7 years.



The ornamental design for an ash tray as shown.

76,303. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1928. Serial No. 26,064. Term of patent 7 years.



The ornamental design for a salt and pepper shaker or similar article substantially as shown.

76,304. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1928. Serial No. 26,065. Term of patent 7 years.



The ornamental design for a salt and pepper shaker or similar article substantially as shown.

76,305. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1928. Serial No. 26,066. Term of patent 7 years.



The ornamental design for a salt and pepper shaker or similar article substantially as shown.

76,306. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1928. Serial No. 26,067. Term of patent 7 years.



The ornamental design for a salt and pepper shaker or similar article substantially as shown.

76,307. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1928. Serial No. 26,068. Term of patent 7 years.



The ornamental design for a salt and pepper shaker or similar article substantially as shown.

76,308. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1928. Serial No. 26,069. Term of patent 7 years.



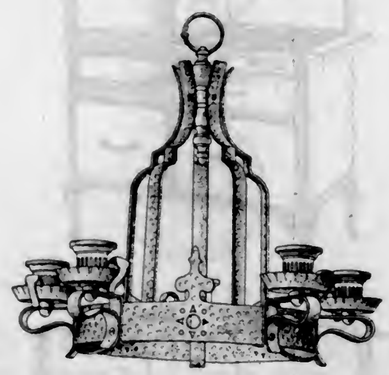
The ornamental design for a salt and pepper shaker or similar article substantially as shown.

76,309. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1928. Serial No. 26,070. Term of patent 7 years.



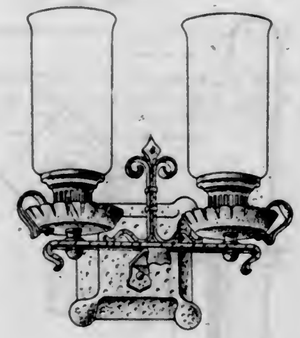
The ornamental design for a salt and pepper shaker or similar article substantially as shown.

76,310. CHANDELIER OR ARTICLE OF ANALOGOUS NATURE. ARTHUR R. KRAUSE, Woodhaven, N. Y., assignor to Max Schaffer Co., Inc., a Corporation of New York. Filed June 28, 1928. Serial No. 27,302. Term of patent 7 years.



The ornamental design for a chandelier or article of analogous nature substantially as shown.

76,311. WALL BRACKET OR ARTICLE OF ANALOGOUS NATURE. ARTHUR R. KRAUSE, Woodhaven, N. Y., assignor to Max Schaffer Co., Inc., a Corporation of New York. Filed June 28, 1928. Serial No. 27,303. Term of patent 7 years.



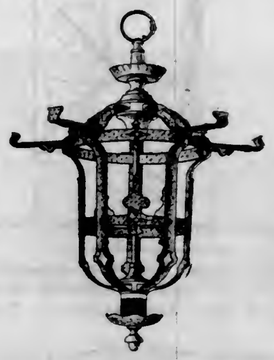
The ornamental design for a wall bracket or article of analogous nature substantially as shown.

76,312. LANTERN OR ARTICLE OF ANALOGOUS NATURE. ARTHUR R. KRAUSE, Woodhaven, N. Y., assignor to Max Schaffer Co., Inc., a Corporation of New York. Filed June 28, 1928. Serial No. 27,304. Term of patent 7 years.



The ornamental design for a lantern or article of analogous nature substantially as shown.

76,313. CHANDELIER BODY OR ARTICLE OF ANALOGOUS NATURE. ARTHUR R. KRAUSE, Woodhaven, N. Y., assignor to Max Schaffer Co., Inc., a Corporation of New York. Filed June 28, 1928. Serial No. 27,305. Term of patent 7 years.



The ornamental design for a chandelier body or article of analogous nature substantially as shown and described.

76,314. COMBINED CANDLE CUP AND BOBÈCHE. ARTHUR R. KRAUSE, Woodhaven, N. Y., assignor to Max Schaffer Co., Inc., a Corporation of New York. Filed June 28, 1928. Serial No. 27,306. Term of patent 7 years.



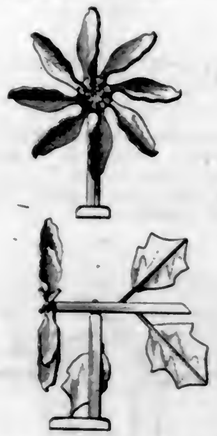
The ornamental design for a combined candle cup and bobèche substantially as shown.

76,315. CURTAIN HOLDBACK. LULU VERHAREN LAVELL, Minneapolis, Minn. Filed Mar. 23, 1928. Serial No. 25,962. Term of patent 3½ years.



The ornamental design for a curtain holdback, as shown.

76,316. WEATHER VANE. EDWARD WESTERVELT LAWSON, West Palm Beach, Fla. Filed July 17, 1928. Serial No. 27,509. Term of patent 7 years.



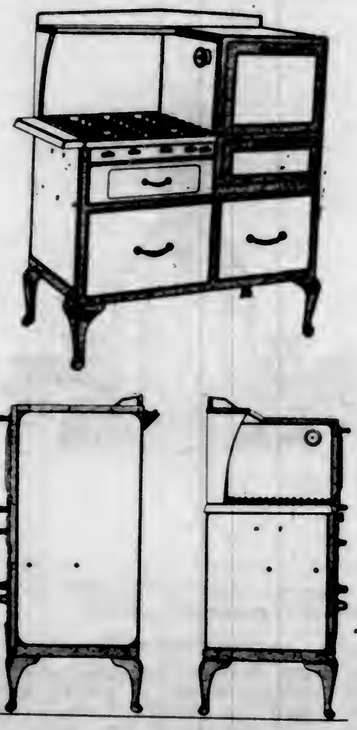
The ornamental design for a weather vane as shown.

76,317. GAS RANGE. EUGENE R. METHUDY, St. Louis, Mo., assignor to Alvin D. Goldman, St. Louis, Mo. Filed Aug. 20, 1927. Serial No. 23,161. Term of patent 14 years.



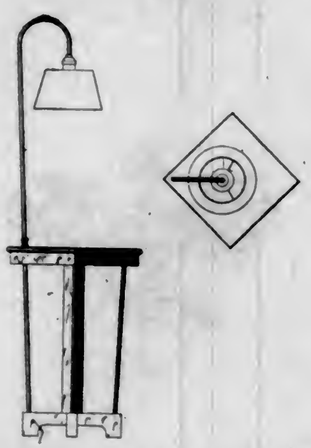
The ornamental design for a gas range, substantially as shown.

76,318. GAS RANGE. CARL E. METHUDY, St. Louis, Mo., assignor to Methudy Enamel Range Co., East St. Louis, Ill., a Corporation of Illinois. Filed Feb. 3, 1928. Serial No. 25,156. Term of patent 14 years.



The ornamental design for a gas range, substantially as shown.

76,319. COMBINED TABLE AND LAMP. DAVID C. NOGGINS, New Haven, Conn. Filed Jan. 7, 1928. Serial No. 24,777. Term of patent 14 years.



The ornamental design for a combined table and lamp as shown.

76,320. ASH TRAY. HARRY W. PARKER, Brooklyn, N. Y. Filed Oct. 22, 1927. Serial No. 23,852. Term of patent 14 years.



The ornamental design for an ash tray, as shown.

76,321. FLOWERPOT HOLDER. JOHN J. PAULL, Wellsburg, W. Va., assignor to Eagle Manufacturing Company, Wellsburg, W. Va. Filed Apr. 9, 1928. Serial No. 26,191. Term of patent 7 years.



The ornamental design for a flowerpot holder, as shown.

76,322. LIGHTER. LEO POTTER, Malba, N. Y., assignor to Potter Products Corporation, New York, N. Y., a Corporation of New York. Filed June 30, 1927. Serial No. 22,621. Term of patent 3½ years.



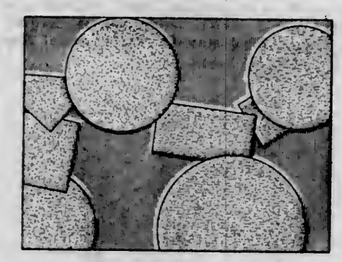
The ornamental design for a lighter as shown.

76,323. DECORATED TUBE. ALBERT J. ROWAN, Providence, R. I., assignor to Payton & Kelly Co., Providence, R. I., a Corporation of Rhode Island. Filed July 6, 1926. Serial No. 18,258. Term of patent 3½ years.



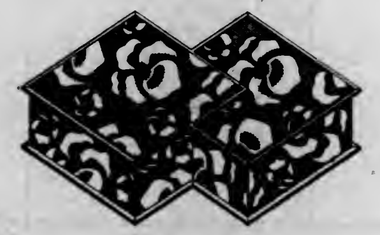
The ornamental design for a decorated tube, substantially as shown and described.

76,324. BLANK OF LEATHER. HENRY ROBERT SAMSTAG, New York, N. Y., assignor to Samstag & Hilder Bros., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 15, 1925. Serial No. 15,761. Term of patent 3½ years.



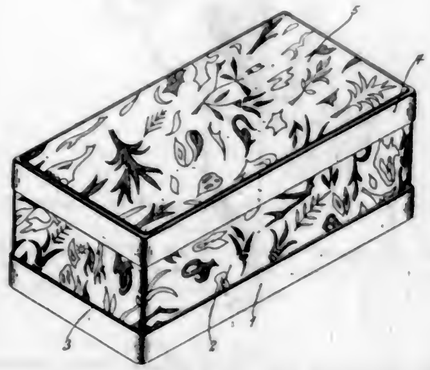
The ornamental design for a blank of leather as shown.

76,325. BOX. FRANK J. SCHLEICHER, St. Louis, Mo. Filed June 21, 1928. Serial No. 27,217. Term of patent 14 years.



The ornamental design for a box, substantially as shown.

76,326. BOX. FRANK J. SCHLEICHER, St. Louis, Mo. Filed June 27, 1928. Serial No. 27,295. Term of patent 14 years.



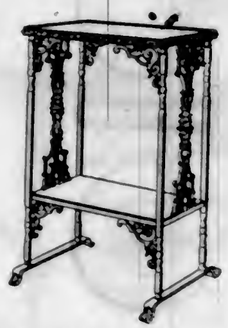
The ornamental design for a box, as shown and described.

76,327. SAVINGS BANK. CHARLES W. SCOTT, Minneapolis, Minn. Filed May 11, 1927. Serial No. 21,931. Term of patent 14 years.



The ornamental design for savings bank, as shown.

76,328. TABLE. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 7, 1928. Serial No. 27,036. Term of patent 7 years.



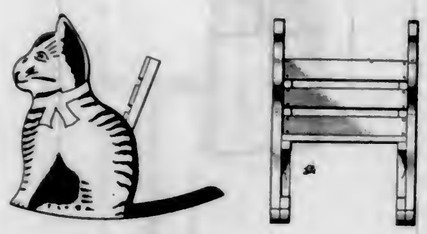
The ornamental design for a table, as shown.

76,329. TEXTILE FABRIC. ARTHUR SOLOMON, New York, N. Y. Filed July 7, 1928. Serial No. 27,406. Term of patent 3½ years.



The ornamental design for textile fabric as shown.

76,330. CHAIR. ELLIOT N. SPEAR, Auburn, Me. Filed May 5, 1928. Serial No. 26,588. Term of patent 7 years.



The ornamental design for a chair as shown.

76,331. LIGHT CASING. GEORGE H. TOWNSEND, Greenwich, Conn. Filed Nov. 18, 1926. Serial No. 19,765. Term of patent 3½ years.



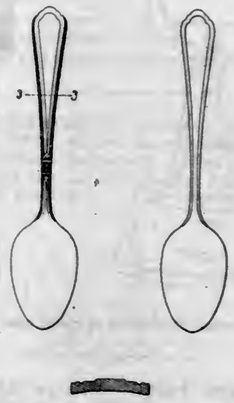
The ornamental design for a light casing substantially as shown.

76,332. STATUETTE. CORA M. VAN HOOZER, Iola, Kans. Filed Feb. 24, 1928. Serial No. 25,557. Term of patent 14 years.



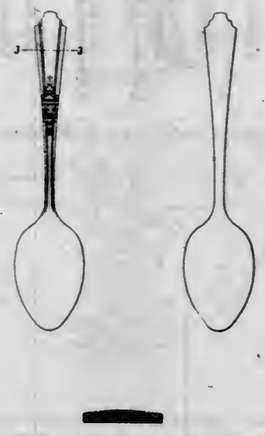
The ornamental design for a statuette, as shown and described.

76,333. SPOON OR SIMILAR ARTICLE. WILLIAM S. WARREN, Meriden, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed June 11, 1928. Serial No. 27,085. Term of patent 14 years.



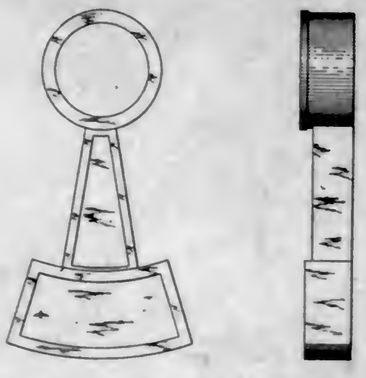
The ornamental design for a spoon or similar article as shown.

76,334. SPOON OR SIMILAR ARTICLE. WILLIAM S. WARREN, Meriden, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed June 11, 1928. Serial No. 27,086. Term of patent 14 years.



The ornamental design for a spoon or similar article as shown.

76,335. CLOCK CASE. RICHARD H. WHITEHEAD, New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn., a Corporation. Filed June 16, 1928. Serial No. 27,164. Term of patent 14 years.



The ornamental design for a clock case as shown.

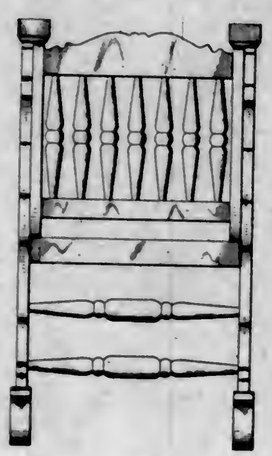
76,336. GRAND PIANO. WILLIAM ZAISER, Rockville Center, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Jan. 3, 1928. Serial No. 24,732. Term of patent 7 years.



The ornamental design for a grand piano substantially as shown.

76,337. CHAIR OR SIMILAR ARTICLE OF FURNITURE. ADOLF A. SEE, Lake Charles, La. Filed Dec. 3, 1927. Serial No. 24,370. Term of patent 14 years.



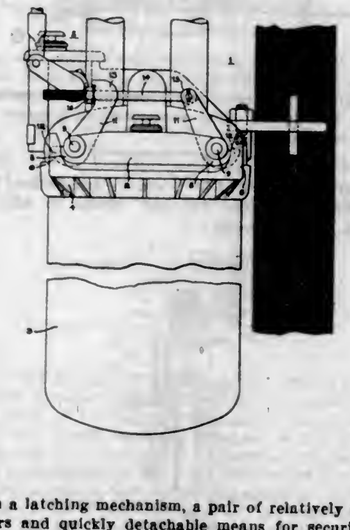


The ornamental design for a chair or similar article of furniture as shown.

PATENTS

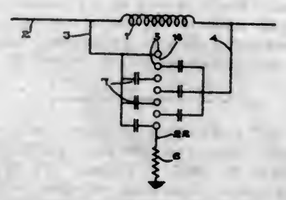
GRANTED SEPTEMBER 11, 1928.

1,683,589. CIRCUIT BREAKER. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1922. Serial No. 604,492. 7 Claims. (Cl. 220—55.)



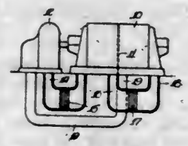
1. In a latching mechanism, a pair of relatively movable members and quickly detachable means for securing said members together comprising a pair of pivoted levers and means for simultaneously operating said levers, said means comprising a connecting member having a threaded portion and a nut in contact with the threaded portion of said connecting member and one of said levers.

1,683,590. IMPULSE LIGHTNING ARRESTER. ALFRED L. ATHERTON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 22, 1922. Serial No. 583,514. 5 Claims. (Cl. 175—30.)



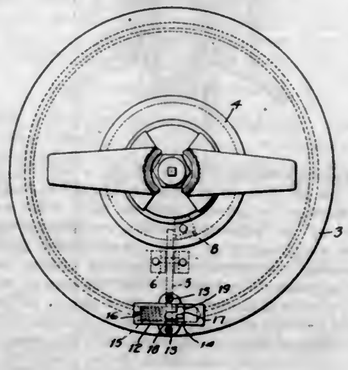
1. In a protective device, the combination with a choke coil, of a plurality of electrodes constituting serially connected gap devices, a connection between one terminal electrode and one end of the choke coil, a ground connection for the other terminal electrode, a connection including a series condenser between said terminal of the choke coil and another electrode of the series, and a connection including a series condenser between the other terminal of the choke coil and an intermediate electrode.

1,683,591. CLOSED-CIRCUIT COOLING FOR ELECTRICAL MACHINES. ADOLPH BAUMANN and WILLEM VAN RIJSWIJK, Baden, Switzerland. Filed Sept. 8, 1927, Serial No. 218,144, and in Germany Aug. 26, 1926. 5 Claims. (Cl. 172—36.)



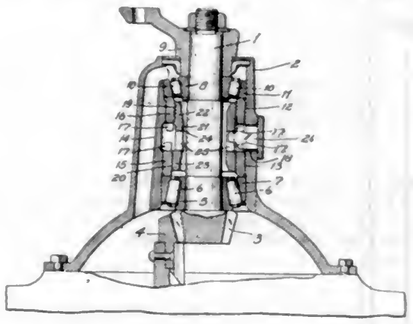
1. In electrical apparatus, the combination with a dynamo-electric machine, of a casing therefor subdivided into compartments for guiding cooling fluid in contact with parts of the machine, a conduit connecting said compartments for conducting cooling fluid from one to another in series, an inter-cooler for cooling the fluid incident to its passage from one compartment to another, and means for circulating and recirculating cooling fluid through the series-connected compartments.

1,683,592. STATIC ELIMINATOR. ARTHUR L. BETTS, Cincinnati, Ohio, assignor to Augustine Davis, Jr., Covington, Ky. Filed Mar. 19, 1923. Serial No. 626,014. 5 Claims. (Cl. 175—264.)



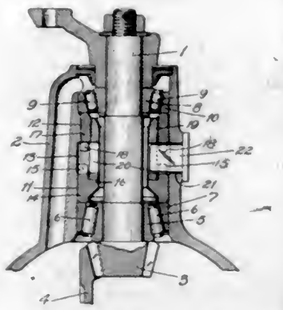
2. In a static eliminator, a tank having a closure, and a lock for said closure, there being a hole into the interior of the tank for the insertion of an electrical grounding key to release the lock, a slidable spring-pressed closure for said hole having an opening normally out of register with the hole and enabling the said closure to be moved against the spring by means of the key, thereby at once grounding the tank.

1,683,593. BEARING. WILLIAM J. CHIEVITZ, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 12, 1927. Serial No. 218,925. 4 Claims. (Cl. 308—207.)



1. The combination with a shaft having a pinion at one end thereof and a housing for said shaft, of roller bearings interposed between them and means for adjusting said bearings, said means comprising rings having exterior threads of equal pitch engaging the threaded inner surface of the housing and a locking sleeve with threads of different pitch engaging the threaded inner surfaces of said rings.

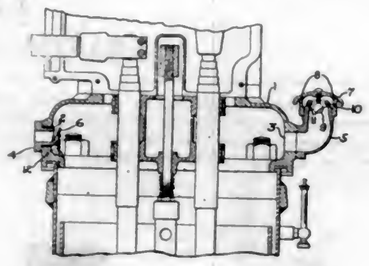
1,683,594. SHAFT BEARING. WILLIAM J. CHIEVITZ, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Oct. 27, 1927. Serial No. 228,150. 4 Claims. (Cl. 308—207.)



1. The combination with a shaft, a housing therefor having two portions of its interior wall screwthreaded and roller bearings interposed between said shaft and said housing, of an adjusting device comprising exteriorly threaded rings engaging said screwthreaded portions of said housing respectively and abutting against the outer bearing members of said roller bearings, one of said rings being interiorly threaded and a sleeve having an exteriorly threaded portion threaded into said interiorly threaded ring and having a portion engaging the other ring.

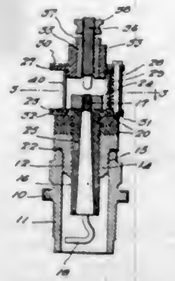
1,683,595. FLUID-PRESSURE TANK. WILLIAM A. COATES, Chorlton-cum-Hardy, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 4, 1923, Serial No. 643,223, and in Great Britain June 23, 1922. 7 Claims. (Cl. 220—44.)

1. In an electrical device, the combination with a tank, an insulating fluid in said tank, and an electrical device submerged in said fluid, of venting means for said tank comprising a plurality of vents at different positions and levels, one of said vents being open under all conditions



of pressure in said tank, and another of said vents being adapted for closing under predetermined pressure conditions in said tank.

1,683,596. SPARK PLUG. PAUL P. ALEXANDER, Worcester, Mass. Filed Oct. 14, 1920. Serial No. 416,888. 1 Claim. (Cl. 175—183.)

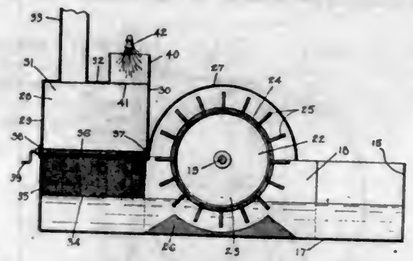


In a spark plug, including a stem for mounting a central electrode, upper and lower insulating disks, sleeves for spacing said disks apart, devices passing through said disks and sleeves for connecting the disks to form a chamber, a tubular member of transparent material mounted between said disks and between the sleeves, the tubular member being shorter than the sleeves, providing space for the admission of air to the tubular member, and the stem projecting into said member, an insulating body connected with the upper insulating disk, this disk constituting a flanged portion of the body and abutting the ends of the sleeves and extending across the end of the tubular member, a threaded sleeve carried by the insulating body, an upper electrode threaded into the sleeve and cooperating with the upper end of the stem for forming a supplementary spark gap, and clamping devices carried by the upper electrode.

1,683,597. PULP BEATER. LORENZO M. AVENSON, St. Paul, Minn. Filed June 25, 1926, Serial No. 118,520. Renewed Mar. 21, 1927. 7 Claims. (Cl. 92—24.)

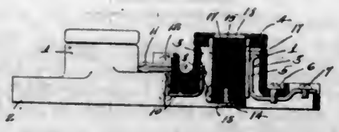
1. A pulp beater comprising an open ovular tub for material to be treated, a mid-feather longitudinally of the tub forming an endless channel therein, a beater-roll positioned between said mid-feather and one of the walls of the tub, a cap over the beater-roll, a hood covering the channel at the receiving side of said roll, a curtain hung from said hood in position transversely of the channel and spaced from said beater-roll, means for winding in and paying out said curtain to keep the lower edge thereof

substantially at the level of the pulp in said channel, a feed conduit opening through the hood into the receiving chamber formed in said channel beneath said hood and



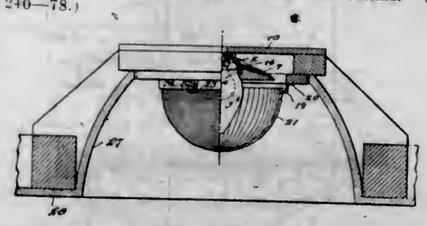
between said curtain and beater-roll, a vent pipe issuing from said hood, a screen traversing said pipe, and a spray nozzle directed against said screen.

1,683,598. SOCKET AND FUSE PLUG. HAROLD WILLIAM BENOIT, Watertown, N. Y. Filed Jan. 30, 1925. Serial No. 5,761. 2 Claims. (Cl. 200—129.)



2. A socket comprising a block formed with a pair of arc shaped passages located diametrically opposite each other, a pair of terminals extending lengthwise of said passages, one of said terminals being arc shaped and terminating near the outer end of its passage and the other terminal being located in the inner end portion only of its companion passage, a fuse plug having a head overlying the outer end of the socket and terminals movable into the passages, the plug terminals being duplicates and arc shaped, a fuse located in the head and connecting the plug terminals, a leaf spring located in the passage containing the shorter socket terminal and being opposed to and normally spaced apart from the shorter socket terminal and arranged to be engaged by the plug terminal moving into said passage and pressed into engagement with the shorter socket terminal opposed thereto.

1,683,599. LUMINAIR. PERCY WILLIAM BERRY, Reading, England, assignor, by mesne assignments, to Holophane Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 30, 1924, Serial No. 710,150, and in Great Britain May 1, 1923. 2 Claims. (Cl. 240—78.)



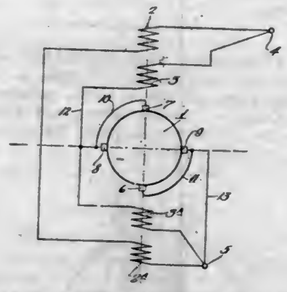
1. A luminaire for cinematograph theatres comprising a light source, a prismatic bowl totally enclosing the source, a colored envelope surrounding the lamp within the bowl and an open mouthed screen surrounding the edge of the bowl the walls of the screen extending far enough below the edge of the bowl to cut off all direct rays from reaching the screen or the spectator.

1,683,600. BUILDING CONSTRUCTION. ARCHIBALD BLACK, Garden City, N. Y. Filed June 29, 1923. Serial No. 648,514. 6 Claims. (Cl. 72—1.)



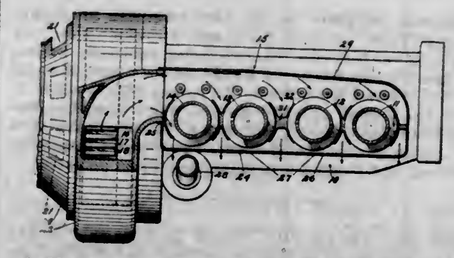
1. A building comprising a series of moulded portable units, means for securing the assembled units together to form the building, duct sections extending through the units in alignment with each other in the assembled building, couplings interposed between aligned sections of ducts for the fluid-tight connection thereof, and recesses for accommodating the said couplings.

1,683,601. ALTERNATING-CURRENT COMMUTATOR MOTOR. DONALD M. BLISS, Chicago, Ill., assignor to Bodine Electric Company, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1927. Serial No. 200,791. 5 Claims. (Cl. 172—276.)



1. In a two-pole commutator type alternating current motor, two circuits spanning the current supply terminals, each circuit including in series with each other a coil for each pole; two commutating means for respectively short-circuiting armature portions extending for ninety degrees rotationally in the same direction from the axis of the said poles, a connection from one of the commutating means to one of the supply terminals, and a connection from the other commutating means to the one of the said circuits intermediate of the coils of that circuit.

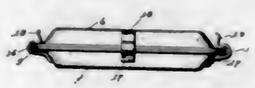
1,683,602. ENGINE-COOLING SYSTEM. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 11, 1921. Serial No. 460,566. 7 Claims. (Cl. 123—171.)



1. Means for cooling an engine, having a plurality of cylinders provided with heat dissipating fins, including a fan driven by the engine, a housing for said fan, said housing being provided with openings permitting air to be drawn therein centrally of said fan, a receiving cham-

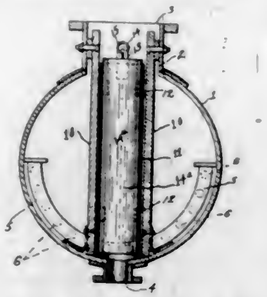
ber having a gradually increasing volume at a portion of the periphery of said fan to receive said air, and a casing surrounding said cylinders and forming a conduit for leading said air along one side of said plurality of cylinders and transversely of said cylinders, said casing being provided with outlet openings on the opposite side of said cylinders from said conduit and so arranged as to provide for a variation in the passage of air across said cylinders in order to equally cool the variably heated portions thereof.

1,683,603. PICNIC SERVICE KIT. EDITH B. CANFIELD, Holton, Kans. Filed Oct. 1, 1926. Serial No. 138,896. 4 Claims. (Cl. 206—4.)



4. A picnic service kit comprising a bottom tray adapted to hold eating utensils, an inverted top tray for covering the said utensils, said trays having relatively wide flat confronting flanges surrounding the rims thereof and a tongue and groove connection between and circumventing said flanges, whereby a dirt-proof joint is established between the trays.

1,683,604. APPARATUS FOR HANDLING ASPHALT AND SIMILAR MATERIAL. WALTER H. CADY and CHESTER E. RAHR, Brookline, Mass., assignors to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1922. Serial No. 579,658. 4 Claims. (Cl. 257—203.)



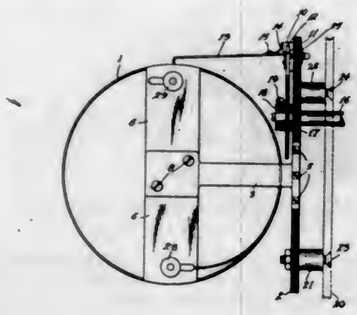
1. A tank having a filling opening through its upper portion and a discharge opening through its base beneath said filling opening, guides extending between said upper portion and base adjacent said openings and a tube slidable on said guides and defining a passage between said openings.

1,683,605. BUTTON BOARD AND PROCESS OF MANUFACTURE. ALBERT L. CLAPP, Danvers, Mass., assignor to Beckwith Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 15, 1921. Serial No. 445,185. 8 Claims. (Cl. 92—21.)

1. The herein described process which comprises disintegrating and beating in water a cellulosic material, a mechanically comminuted resinous gum, and a suspension medium, and forming into shape the pulp so produced.

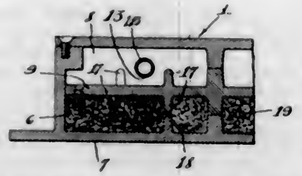
1,683,606. RADIOCOIL. HIRAM D. CURRIER, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1923. Serial No. 661,551. 4 Claims. (Cl. 171—242.)

1. A tuning device of the character described including convolutions of wire cemented together to form a self-supporting coil, a supporting plate for said coil, arms attached to said plate and extending rearwardly therefrom, and coil supporting members attached to the free ends of said arms extending at right angles to the axis



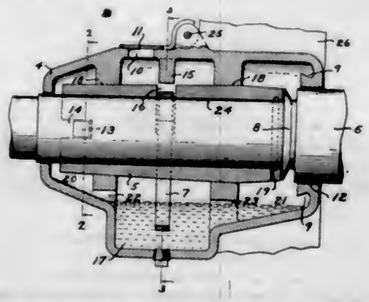
of said coil, said coil supporting members having their free ends formed to conform to the inner peripheral surface of said coil and adapted to engage a small portion of only a few of the convolutions of the coil.

1,683,607. HEAT-DISTRIBUTING MEANS. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed July 3, 1926. Serial So. 120,362. 4 Claims. (Cl. 68—9.)



1. In an ironing element the combination of a body having an ironing face, heating means within the body and means for distributing the heat throughout the ironing face including a body of metal wool having greater heat conductivity than the metal of the body.

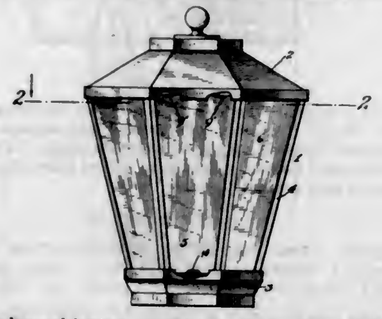
1,683,608. BEARING. CARL L. DAUN and PAUL E. KELLER, Milwaukee, Wis., assignors, by mesne assignments, to American Electric Motor Company, Milwaukee, Wis. Filed Dec. 11, 1925. Serial No. 74,666. 4 Claims. (Cl. 308—128.)



2. The combination of a housing having a fixed internal lug, a bearing member insertable lengthwise into said housing, a recess in said member, an endless lubricating

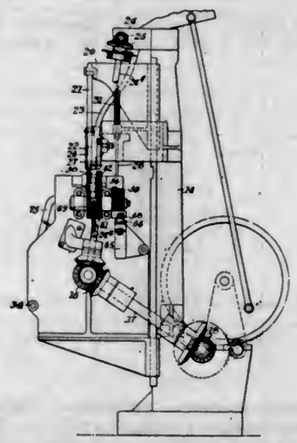
element receivable within said recess and advanced by the insertion of said member into confined position beneath said lug, and a shaft journaled in said member and supporting said element.

1,683,609. LUMINAIR. WILLIAM A. DOREY and WILLIAM A. INGLER, Newark, Ohio, assignors, by mesne assignments, to Holophane Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 15, 1924. Serial No. 732,175. 1 Claim. (Cl. 240—11.)



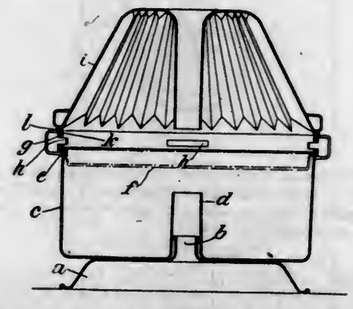
A polygonal lantern comprising a frame, forming flat inclined sides, a glass plate adapted to lie in each pane frame, each plate comprising two pieces of glass of substantially identical size with all of their outer edges in contact and their side edges bevelled to permit the sides of neighboring plates to form a moisture-proof lantern, the opposite edges of the two pieces of glass being notched, said notches being extended a slight distance into the outer faces of the said pieces, the extensions of the notches being disposed in inwardly convergent relation to each other, and resilient clips having convergent legs straddling the plates and seated in the notches with the legs countersunk in the convergent portions of said notches to hold the plates in close contact with each other.

1,683,610. MACHINE FOR FORMING REENFORCEMENT SUPPORTS. THEODORE H. EICKHOFF, Cleveland Heights, Ohio, assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 19, 1927. Serial No. 192,595. 16 Claims. (Cl. 140—71.)



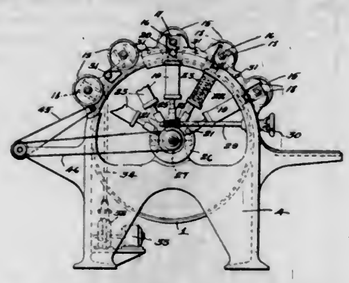
1. Apparatus comprising means for feeding nails and supporting the same, means for positioning a wire in position to be coiled about said nail, and means for coiling said wire about the nail.

1,683,611. BAKING AND ROASTING APPLIANCE. EUGEN HAGER, Oerlikon, near Zurich, Switzerland. Filed Feb. 14, 1927, Serial No. 167,945, and in Switzerland Feb. 25, 1926. 4 Claims. (Cl. 53—6.)



1. In a baking and roasting appliance the detachable combination of a casserole and a deep baking mould fitting one within another along their circumference when these receptacles face one another, both receptacles being adapted to be used alternatively for holding the substance to be cooked whilst the other at the same time serves to retain the heating gases in an adjustable measure, a canal for the heating gases formed of tubular projections of the two receptacles extending in either position of use of the appliance from bottom to top thereof but being interrupted at the height of the joint of the two receptacles, openings being provided in the joining parts of the receptacles adapted to be brought to register in the required extent and to be fully covered by the guiding part of the other receptacle.

1,683,612. IRONING MACHINE. LOUIS S. HALLOWELL, Kansas City, Mo., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Feb. 20, 1926. Serial No. 89,784. 5 Claims. (Cl. 68—9.)



1. In an ironing machine the combination of a movable base member for carrying the work, a suction nozzle extending transversely of the working face of the base member, a suction pipe on which the nozzle is mounted having an inlet into the nozzle, said nozzle having a closure normally closing the inlet, and arranged to be moved to open the inlet by the shifting movement of the nozzle effected by the work passing under the nozzle.

1,683,613. ARTIFICIAL TOOTH. CLIFTON C. HALLOWELL, Drexel Hill, Pa., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 30, 1926. Serial No. 98,447. 9 Claims. (Cl. 32—9.)

1. An artificial tooth comprising a tooth-body and a cusp structure arranged to support said tooth-body, each having opposed faces constructed and arranged to permit

the tooth-body to be rocked into operative position upon the cusp structure, while the root end of the tooth-body is rotatably engaged in the gum socket and the cusp structure is rigidly supported in spaced relation to said gum socket,



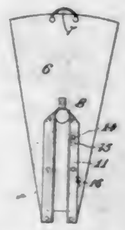
and each having means in their opposed surfaces complementary to guide said opposed surfaces in slidable relation into registry, and to interlock said tooth-body and cusp structure together.

1,683,614. ARTIFICIAL TOOTH. CLIFTON C. HALLOWELL, Drexel Hill, Pa., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 6, 1926. Serial No. 100,038. 8 Claims. (Cl. 32—9.)



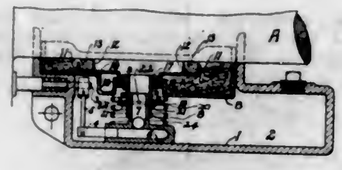
1. An artificial tooth comprising a tooth-body having a root extension, and a convexed occlusally disposed end face provided with a recess having a plane wall inclined in outwardly converging relation to said convexed occlusally disposed end face.

1,683,615. SHIP'S RAT GUARD. GUSTAV HANSEN, Victoria, British Columbia, Canada. Filed May 13, 1927, Serial No. 191,065, and in Canada Dec. 16, 1926. 1 Claim. (Cl. 114—221.)



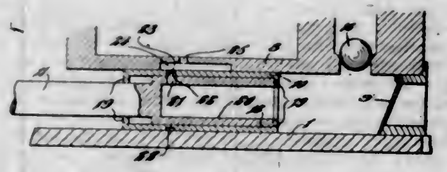
A ship's rat guard comprising, a flat plate of wedge shape having a slot extending from its periphery to a relatively midway position, two U-shaped plates each having a right angularly turned edge, the inner surface of the said U-shaped plates being coincident with the edges of the said slot and the surface adjacent the right angularly turned edge of each plate being adjacent and secured to the face of the said wedge shaped plate on each side thereof and so adapted to extend the surface bearing on a cable over which the said guard is straddled, a locking plate parallel to and pivoting on first said plate, said locking plate being adapted to close the entrance to the said slot, said locking plate having a semi-circular recess in its upper extremity corresponding with and opposite to a similar recess in the end of the said slot, said locking plate having a slot engaging and adjustable on the pivot above referred to, and locking means whereby the said plate may be secured from movement.

1,683,616. LUBRICATOR DISTRIBUTOR. JAMES J. HENNESSY, New York, N. Y. Filed Dec. 4, 1923. Serial No. 678,428. 7 Claims. (Cl. 308—88.)



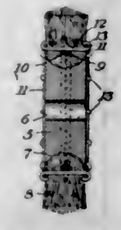
4. In a journal lubricator, a distributor including perimetric ridges of inverted V-shape, and intermediate lubricant pocket forming ridges of inverted V-shape, the apices of said pocket forming ridges being of less height than the apices of said perimetric ridges.

1,683,617. PUMP FOR LUBRICATORS OR THE LIKE. JAMES J. HENNESSY, New York, N. Y. Filed Oct. 17, 1923. Serial No. 668,996. 11 Claims. (Cl. 103—41.)



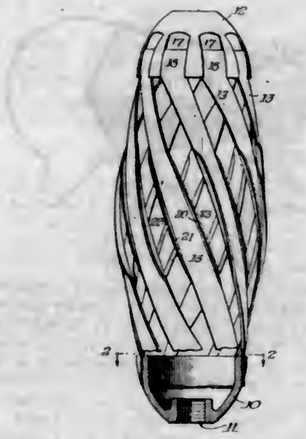
1. In a pump, a cylinder, intake and discharge valves in said cylinder, a bushing slidable in said cylinder, and a piston having a limited sliding movement in said bushing, said cylinder, bushing, and piston having ports arranged so as to be disaligned during a predetermined movement only of said piston to render the latter operative and to be aligned during any remaining movement of said piston to provide a by-pass for the escape of fluid in said cylinder.

1,683,618. BRUSH. ARTHUR L. HOFFMAN, Pittsburgh, Pa. Filed Sept. 2, 1925. Serial No. 54,040. 4 Claims. (Cl. 15—179.)



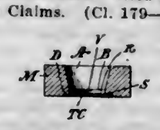
1. A brush comprising a hub member, bristles arranged about the hub member, a circumferentially extending binder around the hub member over the bristles for securing the bristles in place, a hoop at each side of the aforesaid structure, and traverse binders connecting the hoops and bearing against the first binder for confining said binder in place.

1,683,619. FLUE CLEANER. LEONARD W. JOHNSON, Batavia, Ill. Filed May 10, 1926. Serial No. 107,893. 2 Claims. (Cl. 15—104.19.)



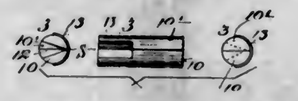
1. A flue cleaner comprising in combination a pair of heads and a plurality of blades mounted in said heads, the said blades having their middle portions widened and turned outward to form cutting elements on said blades.

1,683,620. SLOTTING AND SLITTED LIGHT TRANSMITTER. JOHN KAUFMANN, New York, N. Y., assignor to De Forest Phonofilm Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1925. Serial No. 55,067. 15 Claims. (Cl. 179—100.1.)



3. A light-transmitting element for a light-fluctuating sound-photograph apparatus, which comprises a member formed with a depression of comparatively large diameter extending nearly through it, an integral film almost closing the opposite face of said member in line with said depression, said film being perforated to form a light-slit; and a film-like transparent dust-protecting cover extending over said slit and fused to the face of said member around the slit therein.

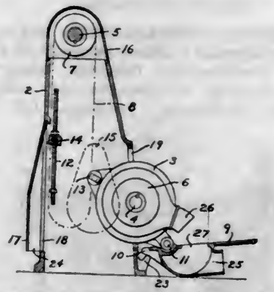
1,683,621. FINE-SLIT CONSTRUCTION. JOHN KAUFMANN, New York, N. Y., assignor to De Forest Phonofilm Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 27, 1926. Serial No. 151,042. 9 Claims. (Cl. 179—100.1.)



1. In a film gate the combination with the gate member of a slit forming member on said gate member comprising two semi-circular notched members united to form a fine slit.

1,683,622. MOTOR SUPPORT. PAUL E. KELLER, Milwaukee, Wis., assignor, by mesne assignments, to American Electric Motor Company, Milwaukee, Wis. Filed Aug. 30, 1926. Serial No. 132,641. 4 Claims. (Cl. 308—11.)

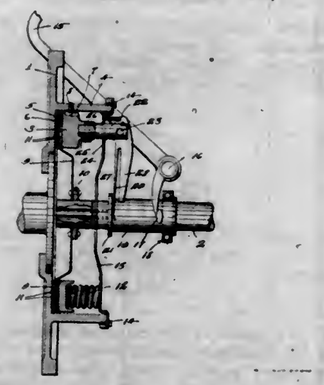
1. In combination, a casing, a side closure plate horizontally pivotally associated with said casing close to the bottom thereof, a motor horizontally pivotally attached to said plate near to, but above the pivotal point of the plate, within said casing, whereby the motor weight is applied to the plate near its fulcrum, means for adjustably sustaining a portion of the weight of said motor on the opposite side from the horizontal pivot thereof, and a flexible belt for sustaining the remainder of the weight of the motor.



1,683,623. ABRASIVE PAPER OR CLOTH. RALPH B. MANLEY, Newark, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Aug. 18, 1924. Serial No. 732,878. 3 Claims. (Cl. 51—279.)

1. A new article of manufacture comprising a backing coated with aluminous abrasive grains distributed substantially uniformly over the surface of the backing, all of the grains being substantially individually spaced with respect to the other grains, whereby the surface of the backing is substantially free from grain clusters so as to leave uncovered portions of the backing sufficient in size to prevent the permanent lodgment therein, of material which has been ground away.

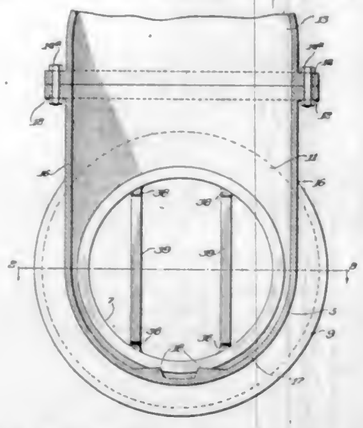
1,683,624. CLUTCH CONSTRUCTION. RALPH MURPHY, Syracuse, N. Y., assignor, by mesne assignments, to Franklin Development Corporation, Syracuse, N. Y., a Corporation of New York. Filed Sept. 4, 1924. Serial No. 735,826. 5 Claims. (Cl. 192—68.)



1. In a clutch, the combination of driving and driven elements, one including an axially shiftable member, spring means for thrusting said member into clutching position, and operating means for shifting said member out of clutching position, comprising a prime mover, and connections between the prime mover and the shiftable member, comprising a throw-out collar, a lever extending outwardly relatively to the throw-out collar and pressing at its inner end against the throw-out collar,

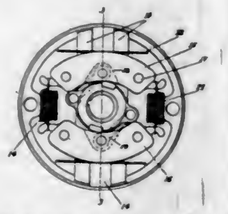
and being fulcrumed at its outer end, and a pull link connected at one end to the shiftable member, the lever being pivoted to the other end of the pull link, the lever having a resilient portion.

1,683,625. VALVE CONSTRUCTION. ELMER KENNEY NICKERSON, Springfield, Mass., assignor to The Chapman Valve Manufacturing Company, Indian Orchard, Mass., a Corporation of Massachusetts. Filed July 7, 1924. Serial No. 724,699. 2 Claims. (Cl. 251—51.)



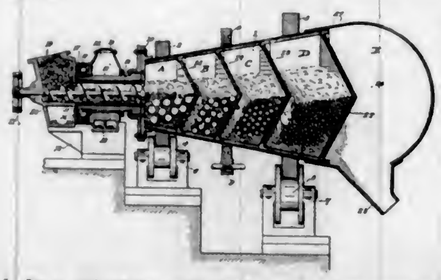
1. In a valve, a casing having a passageway for fluid provided with a valve seat, a valve portion including a solid disk movable across said passageway for engagement with the valve seat, a plurality of spaced guide bars fixed to the casing and disposed symmetrically on either side of and substantially parallel with the median line along which the valve moves, and said valve portion having substantially continuous contact of the major portion thereof with said guide bars during movement to and from the seat, the guide bars having recesses adjacent to their extremities for affording outlets for foreign matter collecting on their faces.

1,683,626. AUTOMATIC GOVERNOR. EDWARD B. NOWOSIELSKI, Bloomfield, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Nov. 5, 1925. Serial No. 67,120. 7 Claims. (Cl. 264—17.)



1. In a device of the character described, the combination of a multi-part driving member and a driven member, said driven member being housed within the driving member, studs on one of the parts of said driving member provided with means to bind the said parts together, a guideway extending across the inner face of one of the parts of said driving member, weights positioned over at least a portion of said guideway on both sides of the driven member; links connecting said weights to the driven member, resilient means connecting adjacent ends of said weights and means associated with said weights and operating in said guideway to cause said weights to move laterally with respect to the driven member.

1,683,627. PULVERIZING MACHINE. ALEXANDER M. READ, Columbus, Ohio. Filed Dec. 31, 1919, Serial No. 348,506. Renewed Feb. 28, 1924. 40 Claims. (Cl. 83—9.)



1. In a pulverizing mill, an approximately horizontal rotatable barrel containing a multiplicity of freely movable crushing bodies and having its lower side so inclined that the included material will travel thereon from one end to the other as the barrel revolves, feeding means to introduce material to be pulverized at one end of the barrel, and a transverse screen concave on the side towards the feeding means dividing the interior of the barrel.

1,683,628. RECOVERY OF WASTE GASES IN THE PRODUCTION OF SULPHITE PULP. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Mar. 19, 1925. Serial No. 16,679. 6 Claims. (Cl. 92—2.)

1. A process of recovering SO_2 from hot blow pit vapors and gases, which comprises conducting such vapors and gases through a confined mass of inert interstitial material in countercurrent flow to a cold acidulated water thereby condensing such vapors and cooling such gases, conducting the cooled gases through a mass of inert interstitial material in contact with water, to cause SO_2 to be absorbed thereby, and supplying such acidulated water to the first-mentioned mass of interstitial material for the condensation and cooling of blow-pit vapors and gases and liberation of the SO_2 contained in such acidulated water.

1,683,629. WELL TUBING. JOHN G. ROBINSON, Blackwell, Okla. Filed Aug. 9, 1926. Serial No. 128,032. 15 Claims. (Cl. 103—219.)



1. The combination with a well casing of tubing mounted therein, said tubing comprising a plurality of sections collectively forming a continuous conduit, and

means on each of said sections for suspending said section from said casing independently of the other sections and means on each of said sections engaging said casing for holding the same against upward movement in said casing.

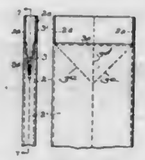
1,683,630. METHOD OF MAKING SMOOTH CASTINGS. SAMUEL T. G. SMITH, St. Louis, Mo. Filed May 24, 1926. Serial No. 111,374. 2 Claims. (Cl. 22—159.)

1. A facing composed of powdered barytes ($BaSO_4$) for the walls of molds and cores used as casting agencies.

1,683,631. EGG-PRESERVING COMPOUND. HENRY STANLEY, Galveston, Tex. Filed Feb. 12, 1927. Serial No. 167,866. 1 Claim. (Cl. 99—5.)

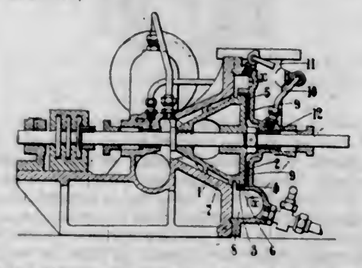
The herein described egg preserving compound comprising a mixture of wheat bran, sodium chloride, and mineral ochre, the mineral ochre being adapted to fill the pores of the egg shell to exclude air and serve as an insulator without bringing about heating of the eggs, and being also adapted to prevent the evaporation of water from the eggs, and to preserve the bran and to assure the bran retaining its preservative properties.

1,683,632. PAPER BAG. JOSEPH W. TAGGART, Watertown, N. Y., assignor to Taggart Brothers Company, Watertown, N. Y., a Corporation of New York. Filed Jan. 14, 1925. Serial No. 2,347. 2 Claims. (Cl. 150—9.)



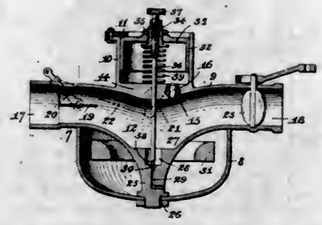
1. In a bag, the combination of a prepared tubular blank having a flexible square cut end and lateral longitudinal tucks, corresponding margins of one of said tucks at one corner of said square end of the blank being slitted longitudinally to provide a valve flap comprising only the web of the tuck and which is folded inwardly and then downwardly between the walls of said tuck on the central line of fold of the tuck and on diagonal fold lines converging at a point lying within said central line of fold, the end portions of the blank for the full width of the blank at said end thereof above the inner end of the valve flap being folded inwardly upon one side of the body of the blank and secured thereto.

1,683,633. ROTARY PUMP. EDWARD BERRY TAIT, Colchester, England. Filed Feb. 15, 1927, Serial No. 168,423, and in Great Britain Feb. 20, 1926. 5 Claims. (Cl. 103—89.)



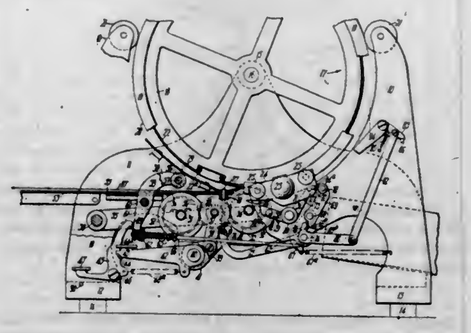
1. In a rotary pump of the screw or worm type, the combination with a cone-shaped chamber having a suction inlet at one end and a discharge outlet at the other end and a rotor comprising a cone-shaped worm adapted to rotate in said chamber, a balancing disc at the discharging end of the worm which operates to balance the thrust of the rotor substantially as set forth.

1,683,634. CARBURETOR. WILLIAM P. TAYLOR, Buffalo, N. Y. Filed June 10, 1922. Serial No. 567,376. 2 Claims. (Cl. 261—50.)



1. A carburetor having a carbureting chamber, an air inlet and a mixture outlet, a cylinder in communication with said carbureting chamber, a spring-retained piston in said cylinder adapted to be actuated under suction created within said carbureting chamber, a fuel valve actuated by said piston, a choke valve in said air inlet, and means operatively connected with said choke valve to close communication between said carbureting chamber and cylinder when closing said choke valve.

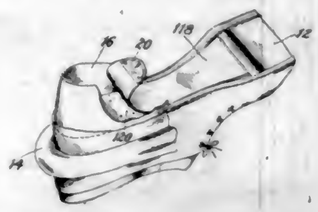
1,683,635. STENCILING MACHINE. LINDEN A. THATCHER, Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed May 18, 1926. Serial No. 109,833. 35 Claims. (Cl. 101—118.)



1. A stenciling machine having a sheet-feeding couple including a rotatable stencil-carrying cylinder and an impression-roller always in rolling frictional engagement with the cylinder to feed a work-sheet through a stenciling position, said machine also having, in combination, supplemental cam-closed work-sheet-feeding rolls driven by the impression-roller and operable to advance the work-sheet into the bite of said stencil-cylinder and impression-roller, said stencil-cylinder having timing means for controlling the driving of said supplemental rolls by means of said impression-roller.

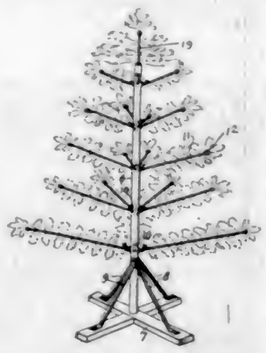
11. In a stenciling machine including a stenciling cylinder having a free rotary movement between a normal stop position and a stencil-preventing stop position, the combination of feeding means to advance a work-sheet to be stenciled, and mechanism controlled by the work-sheet and operatively connected to the stencil-preventing stop to release the cylinder for a full stenciling rotation.

1,683,636. MANUFACTURE OF SHOES. FRED E. TOOTHAKER, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 29, 1921. Serial No. 525,590. 22 Claims. (Cl. 36—76.)



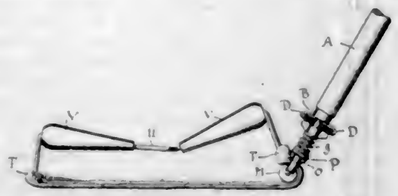
1. A turned shoe comprising, in combination, a sole, an upper, a lining, a molded counter between the upper and the lining, a shank piece split at its rear end to form two flaps and having the lower margin of the lining between the flaps, means to fasten one flap to the counter to form a bottom piece or tuck therefor, and means to fasten one or both flaps to the lining to hold it against displacement.

1,683,637. ARTIFICIAL TREE. EMMETT H. TRIMPE, Indianapolis, Ind., assignor to James A. Everitt, Indianapolis, Ind. Filed Aug. 26, 1927. Serial No. 215,723. 4 Claims. (Cl. 41—15.)



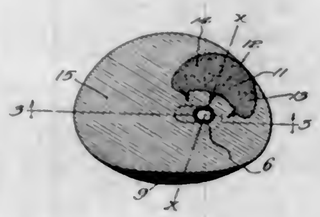
1. In an artificial tree, a staff having holes therethrough, in combination with wires bent double and twisted together and having ends threaded through the holes in the staff and knotted to prevent removal, and a dressing of foliage on the doubled and twisted wires.

1,683,638. COMBINED MOP AND WRINGER. WILLIAM TURNER, Louisville, Ky. Continuation of application Serial No. 90,176, filed Feb. 23, 1926. This application filed Sept. 13, 1926. Serial No. 135,259. 7 Claims. (Cl. 15—119.)



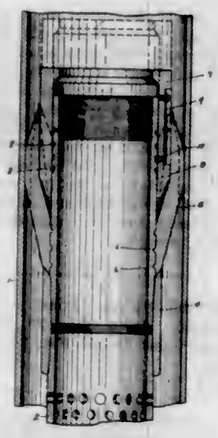
1. In a mop of the character described a frame for a looped mop cloth comprising a single piece of wire bent at the ends to form flat loops for securing the cloth, said ends being offset from the intermediate portion of the frame, the wire being bent at the center into an S-shaped spring, straight shanks between the S-shaped spring and the respective ends mounting handles, one of the shanks being bent upwardly and at an obtus angle to the S-shaped member.

1,683,639. GOLF CLUB. PEMBROKE A. VAILE, Chicago, Ill., assignor to B. L. MacGregor, Hollywood, Ill. Filed Sept. 24, 1927. Serial No. 221,633. 5 Claims. (Cl. 273—77.)



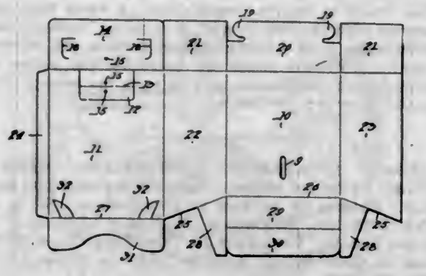
1. A golf club of the driver class comprising a head of conventional shape and a shaft, the shaft being connected to the head so that the axis of the shaft will extend across a point laterally of the intended point of impact on the face of the head, and a weight in said head disposed laterally of said shaft and in line transversely through said shaft with the point of impact on said face.

1,683,640. SEALING DEVICE. EDMUND F. WEISE, Houston, Tex., assignor to Howard F. Smith, Harris County, Tex. Filed Aug. 12, 1919, Serial No. 316,943. Renewed Sept. 7, 1923. 3 Claims. (Cl. 166—10.)



1. A sealing device including a tubular support, an annular abutment around the support whose upper end is outwardly flared, said support having an annular external groove above said abutment, an expansible sealing ring around said support whose lower end is tapered and fitted within the upper flared end of said abutment, an annular internal rib on said ring which fits into said groove, an annular wedge around the support adapted to wedge between the support and ring to expand the ring and whose lower end is inwardly tapered the upper end of said wedge extending above the support and being inwardly thickened.

1,683,641. TOILET-PAPER HOLDER. FRED A. WHITNEY, Leominster, Mass. Filed Jan. 3, 1927. Serial No. 158,529. 10 Claims. (Cl. 312—60.)



1. As an article of manufacture, a carton of sheet material having a front, a back and two ends, each of the ends having a slanting lower edge and provided with tabs folded along the line of the slanting lower edges and projecting inwardly toward each other in the same plane, and the front having a tab at the bottom folded horizontally across it and bent inwardly so that the upper part engages the bottoms of the two tabs on the ends, the lower part of the tab on the front being bent over into contact with the upper surfaces of said end tabs to form a bottom for supporting a package of toilet paper in the carton.

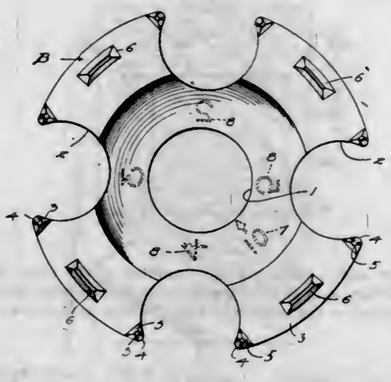
1,683,642. SIDE-WALL SAMPLER. SAMUEL H. WILLISTON, Maracaibo, Venezuela. Filed Mar. 30, 1925. Serial No. 19,547. 26 Claims. (Cl. 255—1.)



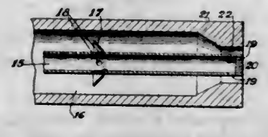
1. A side wall sampler comprising in combination a sinker member, a sample container carried thereby and a flexible cable for operating said device.

1,683,643. PLAYING PIECE. HAROLD S. WITTMAAK, Erie, Pa. Filed Sept. 13, 1927. Serial No. 219,287. 3 Claims. (Cl. 273—106.)

1. A playing piece of the character described comprising a disc-like body member, said member being substantially concavo convex with its convex face constituting its top surface, said member having a central opening and a plurality of recesses provided in the peripheral portion thereof equi-distantly spaced in a circumferential direction, adjacent recesses being spaced apart less than one hundred and eighty degrees, said recesses being parti-circular in form with the extremities of the walls thereof constituting inwardly disposed fingers, said fingers being reversely rounded and merging with the adjacent peripheral edges of the body member.



1,683,644. OIL-BURNING HEATER. OLIVER E. C. WOODS, Toronto, Ontario, Canada. Filed June 16, 1926, Serial No. 116,378. Renewed July 13, 1928. 3 Claims. (Cl. 158—76.)

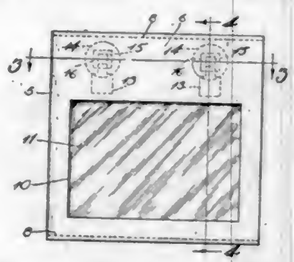


1. A mixing nozzle for an oil burning heater, comprising an outer air-conducting pipe and an inner fuel-conducting pipe arranged within said air-conducting pipe, said air-conducting pipe at its discharge end provided with a restricted, substantially cylindrical discharge orifice, and said fuel-conducting pipe terminating within said restricted orifice and having a radial outlet opening to discharge fuel into said restricted orifice in a plane substantially perpendicular to the flow of the concentrated blast of air through said restricted orifice, said fuel-conducting pipe having a plurality of lateral openings establishing communication between the interior of the fuel-conducting pipe and the unrestricted interior portion of the air-conducting pipe, and means about the fuel-conducting pipe adjacent the lateral openings therein for intercepting a portion of the current of air passing through the unrestricted interior of said air-conducting pipe and concentrating such intercepted air for injection through the last mentioned openings into said fuel-conducting pipe for mixing with the fuel therein and accelerating its flow therethrough in the direction of the radial outlet openings.

1,683,645. AUTOMOBILE LICENSE-CERTIFICATE HOLDER. ORVILLE E. ABBEY, Corning, Iowa. Filed July 20, 1927. Serial No. 207,298. 1 Claim. (Cl. 40—16.)

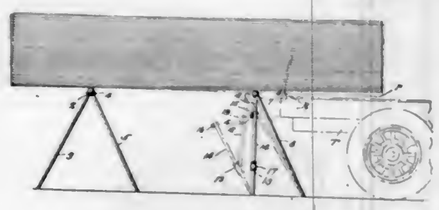
An automobile license certificate holder comprising a flat flexible envelope adapted to receive a license certificate and having a transparent sheet of material in the front thereof through which the certificate is visible, said envelope being open at one side and having a pair of spaced inverted key-hole slots in the upper portion of the

back wall thereof, a pair of vacuum cups detachably mounted in the slots of said envelope and providing suction means for detachably connecting the envelope to a



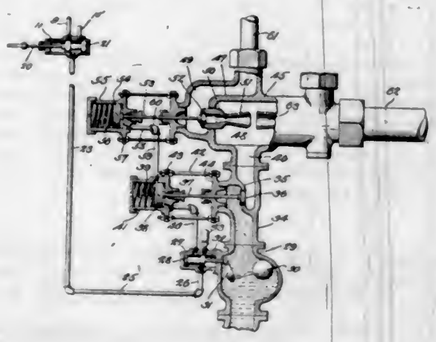
support, and a stiffening sheet applied to the inner face of said back wall and having key-hole slots formed therein conforming to and registered with the first named slots.

1,683,646. LOADER. DONALD S. BARRY, Cedar Rapids, Iowa. Filed Nov. 16, 1925. Serial No. 69,515. 6 Claims. (Cl. 214—38.)



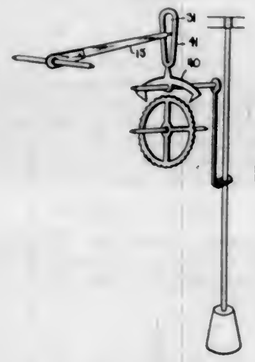
1. In loading apparatus a trestle including a load supporting cross bar, legs supporting the same, struts pivotally connected to the cross bar, legs hingedly connected between their ends to the struts, and cooperating means upon the struts and the hinged legs for holding said legs against movement relative to the struts.

1,683,647. AUTOMATIC INJECTOR. CHARLES WILLIAM BARTON, Portsmouth, Ohio. Filed July 7, 1926. Serial No. 121,033. 1 Claim. (Cl. 103—271.)



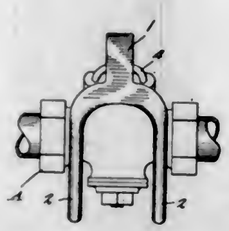
In combination with a steam boiler, an automatic injector including a body portion formed with a dividing wall dividing the body portion into front and rear compartments, a nozzle supported in the dividing wall, a valve within the rear compartment for normally closing the nozzle, a pipe establishing communication between the front compartment and boiler, a pipe for establishing communication between the rear compartment and boiler to deliver steam to the rear compartment, a water feed pipe connected with the body portion, a valve for normally preventing water from entering the body portion, and thermostatically controlled means for operating the valves to simultaneously admit steam and water to the body portion to inject water into the boiler.

1,683,648. ESCAPEMENT-CONTROLLING MECHANISM. CLIFFORD HOWELL BEASLEY, Birmingham, England, assignor of one-half to Parkinson and W. & B. Cowan Limited, Birmingham, England, a Corporation of Great Britain. Filed June 11, 1923, Serial No. 644,675, and in Great Britain June 20, 1922. 4 Claims. (Cl. 58—132.)



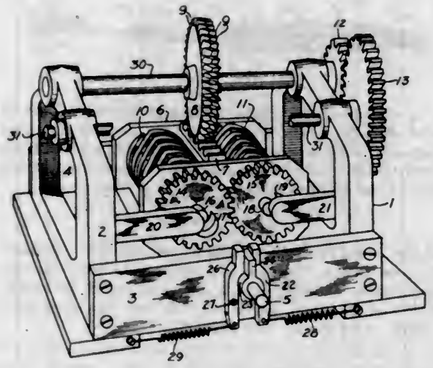
1. A device for governing the action of escapement mechanism having an oscillating element and comprising a blade spring, means for supporting the blade spring in cooperative relation with respect to the oscillating element, said oscillating element having a slot through which a portion of the spring extends.

1,683,649. LOCK FOR SERVICE COCKS. MASSIE M. BELOTE, Valdosta, Ga. Filed Jan. 8, 1927. Serial No. 159,905. 2 Claims. (Cl. 70—122.)



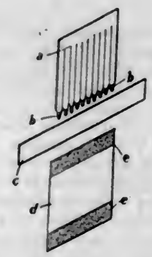
1. The combination with a housing adapted to receive the head of a valve to hold said head against rotation within the housing, of means extending from the housing for straddling the casing of the valve when said housing is in either of two positions at right angles to each other, thereby to hold the head of the valve engaged by the housing and prevent rotation thereof.

1,683,650. MECHANICAL MOVEMENT AND REGULATING DEVICE. GUSTAV A. BOETTCHER, Jamaica, N. Y., assignor to Multi-Needle Engineering Corporation, Jamaica, N. Y. Filed Mar. 20, 1926. Serial No. 96,353. 15 Claims. (Cl. 74—36.)



1. A regulating device comprising a frame, a pivot shaft mounted in the frame and a carriage secured upon said shaft within said frame, a pair of shafts mounted in said carriage and provided each with a gear in mesh with the other, a rotary toothed member also mounted on each of said pair of shafts, and a transverse shaft mounted upon said frame having a gear secured thereon adapted to mesh with either of said rotary toothed members in different positions of said carriage.

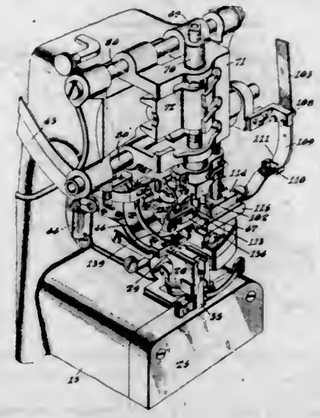
1,683,651. PROCESS FOR MANUFACTURING MATCH PACKAGES. FRITZ BOVARD, Bern, Switzerland. Filed Jan. 19, 1927. Serial No. 162,196. 2 Claims. (Cl. 144—51.)



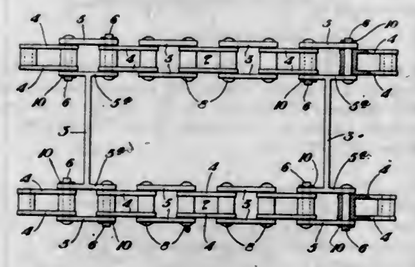
1. A method of manufacturing match packages containing at least one sheet of single splints, consisting of partially cutting a sheet of material to form a sheet of splints connected at one edge thereof, applying to the free ends of splints a match composition, securing such sheet of splints at the free ends of said splints frictionally between a folded sheet of material provided with an ignition paste along free edges thereof, cutting said uncut edge of the sheets of splints by cuts continuing the first mentioned cuts through to the edge.

1,683,652. FASTENER-INSERTING MACHINE. MELLEN N. BRAY, Boston, Mass., assignor to Tubular Rivet & Stud Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 10, 1927. Serial No. 225,267. 33 Claims. (Cl. 218—17.11.)

1. A fastener-inserting machine comprising fastener-inserting mechanism, mechanism for feeding an article of work to space the fasteners inserted therein, means arranged to punch fastener-receiving holes in a strip of reinforcing material exclusively and at points out of register with said fastener-inserting mechanism, and means arranged to feed such strip to place the punched holes successively in register with an element of said fastener-inserting mechanism so that the fasteners inserted into said article will be inserted also through the holes punched as aforesaid.

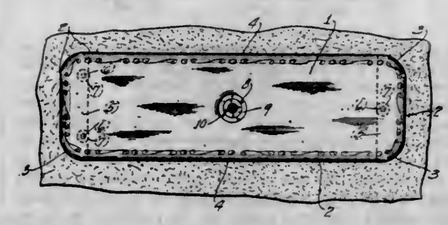


1,683,653. CONVEYER. WILLIAM MILTON BROWN, Johnstown, Pa. Filed Sept. 24, 1926. Serial No. 137,459. 2 Claims. (Cl. 198—168.)



1. In an endless conveyer member of the chain and scraper type, wherein therein there is provided a pair of endless chains connected at intervals by transverse scraper bars, special outside links for said chains, and rectangular scraper bars permanently secured to said special links at their transverse centers.

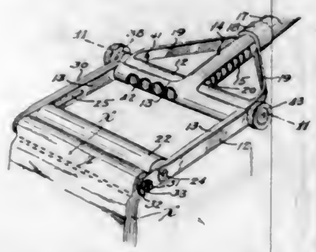
1,683,654. GRAVE COVER. WALTER BUEL, St. Louis, Mo. Filed Aug. 22, 1925. Serial No. 51,828. 1 Claim. (Cl. 27—30.)



A grave cover of the class described, comprising a metal cover of a size and shape to cover a grave, an annular depression in its transverse center and intermediate its ends,

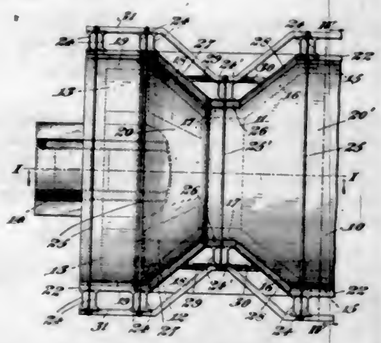
a circumferential flange projecting inwardly about the bottom of said depression leaving an opening in the bottom of said depression, means for supporting said cover in position so that it will not be moved out of place by the freezing and thawing of the earth.

1,683,655. COMBINED MOP HEAD AND WRINGER. OSCAR CARLSON, Minneapolis, Minn. Filed Jan. 23, 1928. Serial No. 248,696. 8 Claims. (Cl. 15—119.)



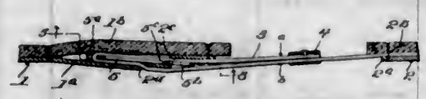
1. A combined mop holder and wringer having a head comprising upper and lower yoke-like members, the latter of which is slidably mounted within the former, the transverse portions of the yoke-like members being closely positioned to afford a hand grip, a mop-holding lower roll journaled to the prongs of said upper member, an upper roll journaled to the prongs of said upper member, said two rolls being movable into co-operating wringing relation by pressing the transverse portions of said members toward each other, and means for rotating the lower roll to wind a mop thereon or unwind the same therefrom.

1,683,656. REGENERATIVE OPEN-HEARTH FURNACE. STEWART J. CORT, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Dec. 21, 1923. Serial No. 681,940. 1 Claim. (Cl. 263—46.)



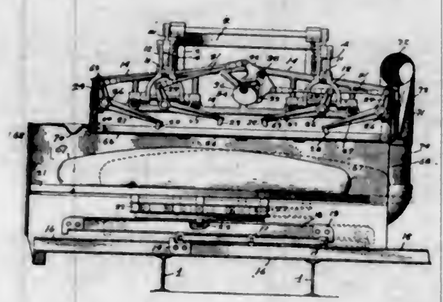
In an open hearth furnace, the combination of substantially parallel side walls, converging side walls at the ends of the substantially parallel walls, relatively short substantially parallel walls at the ends of the converging walls, diverging walls beyond the last named substantially parallel walls, substantially parallel walls beyond the diverging walls, skew back channels following the outline of and arranged at the top of said walls, buckstays resting against the parallel portions of said walls, and bracing means between the buck stays for the parallel walls between the converging and diverging walls and the converging and diverging skew back channels at the top of the converging and diverging walls, and a roof supported by the skew back channels.

1,683,657. ADJUSTABLE STRAP CONNECTION. FRANK DIETERLE, Philadelphia, Pa., assignor to A. J. Reach Company, Philadelphia, Pa. Filed Jan. 21, 1928. Serial No. 248,413. 5 Claims. (Cl. 2—2.)



1. In combination a unitary member having a pair of parallel slits, a strap having a looped portion threaded through said slits, and an independent locking plate lying between the plies of the loop and movable relative to the portion of the member lying between said slits.

1,683,658. MATTRESS-BEATING MACHINE. JOSEPH WILLIAM DROLL, Chicago, Ill., assignor to Droll Patents Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 17, 1926, Serial No. 129,799. Renewed July 9, 1928. 14 Claims. (Cl. 226—43.)



1. A mattress beating machine comprising a solid mattress support; a plurality of inner and outer beating elements pivotally mounted above the center and edges of said support respectively; and means for operating the inner beating elements slightly in advance of the outer beating elements to engage and beat a mattress upon said support and thereby beat the stuffing of said mattress from the center toward the edges thereof.

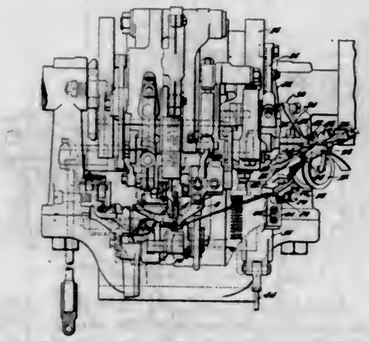
5. The combination with a mattress beating machine, of inner and outer beating elements arranged to engage and beat the central and outer portions of a mattress respectively; a mattress support; and resiliently mounted stripping elements arranged between the mattress and said beating elements to separate said mattress and said beating elements.

12. A mattress beating machine comprising a rigid horizontally disposed mattress support; a plurality of beating elements relatively to a mattress on said support; raising and lowering the beating elements to adjust said beating elements relatively to a mattress on said support; a housing enclosing said support and having an open end and a top portion secured above said beating elements and arranged to be raised and lowered therewith; means for actuating the beating elements to engage and beat a mattress on said support; and an inhalant element mounted adjacent the opening in said housing to inhale dust beaten from said mattress.

1,683,659. SEWING MACHINE. ANDREW EPPLER, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 25, 1920. Serial No. 412,705. 23 Claims. (Cl. 112—46.)

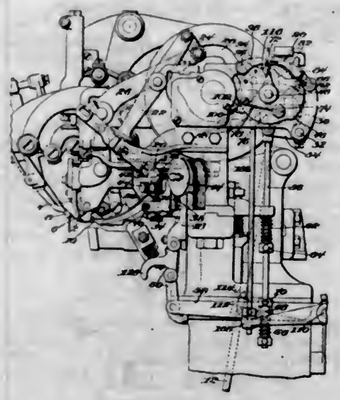
1. A welt shoe sewing machine having, in combination, stitch forming devices, a welt guide, and means in advance

of the welt guide for slashing a welt comprising a reciprocating welt slashing knife and means operating independently of the welt guide for moving the welt into and



out of the path of the knife to cause a portion of the welt to be slashed and the remaining portion of the welt to remain unslashed during the sewing operation.

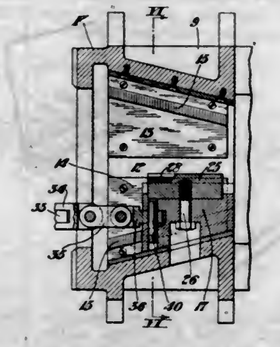
1,683,660. SEWING MACHINE. ANDREW EPPLER, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 21, 1922. Serial No. 608,321. 19 Claims. (Cl. 112—44.)



1. A machine for attaching welts having, in combination, welt attaching mechanism, welt treating mechanism for operating on the welt for a limited period during the operation of the welt attaching mechanism, means controlled by the starting of the machine for rendering the welt treating mechanism active, and means for varying the start of the welt treating period with relation to the start of the welt attaching.

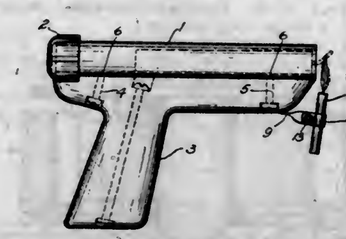
1,683,661. UPSETTING DEVICE. WILLIAM H. FELDING, Pittsburgh, Pa., assignor to National Tube Company, a Corporation of New Jersey. Filed Mar. 11, 1926. Serial No. 94,024. 2 Claims. (Cl. 78—17.)

1. In an apparatus for upsetting tubular articles, a housing having a window therein, a pair of wedge-plates secured on the bottom wall of said window, upstanding wedge-tongues on said plates, a pair of wedge-blocks mounted on said wedge-plates and provided with wedge-grooves to receive said wedge-tongues, a second pair of wedge-plates secured to said housing and overlying said wedge-blocks, said last named plates being provided with downwardly extending wedge-tongues adapted to be engaged in wedge-slots in said wedge-blocks, article engaging jaws secured to the inner faces of said wedge-blocks, and



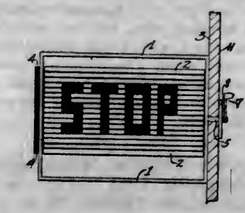
power means for reciprocating said wedge-blocks relative to said wedge-plates to move said article engaging jaws toward and away from each other so as to grip and release the articles to be upset.

1,683,662. TOY PISTOL. ROBERT LEE FORD, St. Louis, Mo. Filed Aug. 15, 1927. Serial No. 215,085. 1 Claim. (Cl. 42—54.)



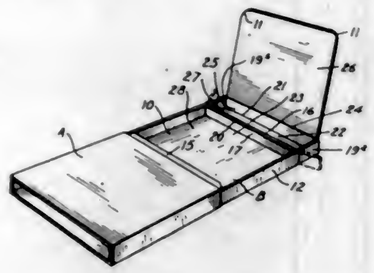
A toy pistol of the class described, comprising a barrel made of sonorous metal, a bore of relatively large diameter in said barrel, open at the muzzle end and closed at the breech end, a stock attached to said bore by means of tap bolts passing through said stock and screw-threaded into said barrel, means for supporting a flame of fire beneath the muzzle of said barrel, said flame being so disposed that the point thereof will contact with the fuse of a fire cracker inserted in the muzzle of said barrel.

1,683,663. AUTOMOBILE SIGNAL. CLARENCE E. GOHEEN, South Bend, Ind. Filed Nov. 21, 1927. Serial No. 234,809. 5 Claims. (Cl. 116—51.)



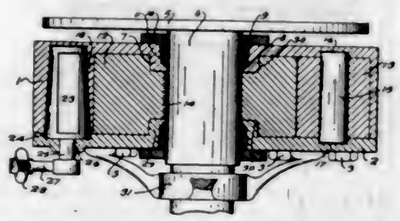
1. An automobile signalling device comprising a frame, oppositely disposed sets of rollers carried by said frame marked to collectively form words at given positions, driving connections between all the rollers for rotating the same in unison, and lever means for operating the rollers.

1,683,664. COMBINED CIGARETTE BOX AND MATCH CONTAINER. ALBERT ROLAND GRAHAM, Toronto, Ontario, Canada. Filed Dec. 27, 1926. Serial No. 157,348. 1 Claim. (Cl. 229—10.)



A container structure of the character described comprising a blank folded to provide bottom, side and end walls, said blank being doubled upon itself intermediate the end walls to form a two-ply-partition wall extending between the side walls in proximity to and parallel with one of said end walls, the portions of the side walls extending between said partition wall and the last mentioned end wall being partially severed from the bottom of the blank to serve as laterally movable flaps.

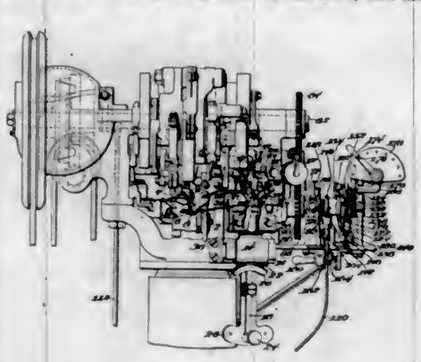
1,683,665. VEHICLE BRAKE. STANLEY EZEAKEL GRIFFITH, Olean, N. Y. Filed Apr. 19, 1926. Serial No. 103,122. 1 Claim. (Cl. 188—92.)



A fluid brake for automobiles comprising a sleeve revolubly mounted upon an axle housing, a circular plate formed upon the outer end of the sleeve and adapted to be secured to the running wheel so that the sleeve rotates therewith, a gear adapted to be secured upon the sleeve, a fluid tight casing of substantially cylindrical form inclosing the gear and mounted upon the sleeve, said sleeve being rotatable within the casing, means for preventing the egress of fluid between the casing and the sleeve, a member of spider formation secured about the axle housing and having the ends of its arms secured to the casing to hold it against rotation, an idler pinion journaled within the casing and meshing with the first-mentioned gear, a fluid conduit embodied within the casing through which the fluid circulates under the pumping influence of the rotative movement of the intermeshing gears, and a manually actuated valve in the fluid conduit for controlling the circulation of the fluid.

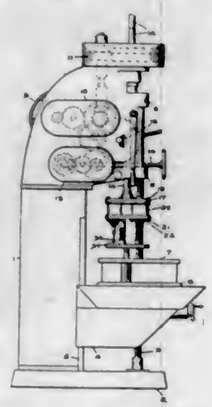
1,683,666. WELT-ATTACHING MECHANISM. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 22, 1922. Serial No. 562,615. 18 Claims. (Cl. 112—44.)

1. A machine for attaching welts having, in combination, welt attaching mechanism, welt treating mechanism acting when thrown into operation to operate on the welt for a limited period during the operation of the welt attaching mechanism and then automatically stop, said welt treating mechanism being arranged to act on the welt at a distance from the attaching mechanism corresponding to the length of welt which will be attached before reaching a sharply curved marginal portion of the shoe, and means



acting to render the welt treating mechanism active in starting the machine to treat the portion of the welt to be attached to said sharply curved marginal portion of the shoe.

1,683,667. MULTIPLE-TOOL DRILL. GEORGE E. HALLENBECK, Toledo, Ohio, assignor, by mesne assignments, to Baker Brothers, Inc., Toledo, Ohio, a Corporation of Ohio. Filed June 9, 1921. Serial No. 476,142. 5 Claims. (Cl. 77—24.)

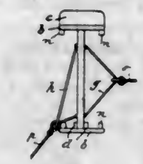


1. A multiple tool head comprising a driving spindle, gearing actuable from the spindle, a pair of tool holders axially aligned with said gearing, mounting means for tool carrying gearing, said means assembling said pair of holders as a unit for maintaining at all times the constant spacing therebetween, and a support for said mounting means on which the mounting means is shiftable for adjusting the pair of holders as a unit laterally of and relatively to the spindle while maintaining transmission connection from the spindle through the gearing to said holders.

1,683,668. VANE FOR FISHERY. CARL HANSEN, Esbjerg, and PAUL LETH, Copenhagen, Denmark; said Leth assignor to said Hansen. Filed Dec. 2, 1926, Serial No. 152,128, and in Denmark Dec. 3, 1925. 2 Claims. (Cl. 43—9.)

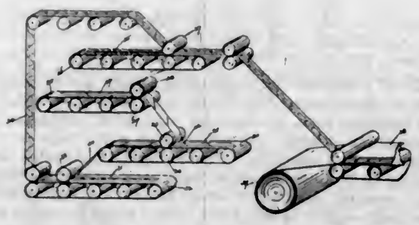
1. A device of the character described, comprising a vertical board, a steering plane secured to said board at right angles thereto along its upper edge, a steering plane

secured to said board at right angles thereto along its bottom edge, a rudder hingedly secured to the upper steering plane and adapted to be swung from a position at an



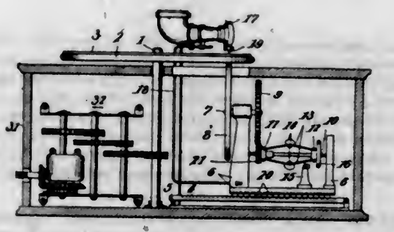
angle to the plane above the same to a position at an angle to said plane below the same, and means for maintaining said rudder in any of its adjusted positions.

1,683,669. METHOD OF MANUFACTURING TIRE TUBES. ALBERT ENNIS HENDERSON, Toronto, Ontario, Canada. Filed Sept. 30, 1921. Serial No. 504,403. 13 Claims. (Cl. 154—8.)



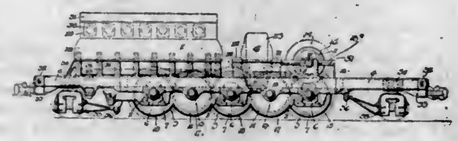
1. The method of producing a laminated rubber tube which consists in cutting a calendered rubber sheet on transverse lines to form strips of a width bearing a definite proportion to the circumference of the ultimate tube, placing said strips in series in end to end relation, parallel with the length of a second calendered sheet, rolling said second sheet transversely to incorporate said series of strips and finally vulcanizing.

1,683,670. PHONOGRAPH. ISAMU HOSOI, Tochigi-Ken, Japan, assignor of one-half to Kakutaro Takei, Tokyo, Japan. Filed Feb. 18, 1925, Serial No. 10,078, and in Japan Mar. 3, 1924. 1 Claim. (Cl. 188—180.)



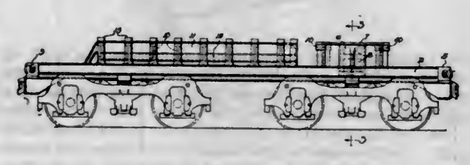
In a phonograph of the type specified, a tone arm, a rotatable turntable, means for driving said turntable, a friction disc, a governor, a carriage adapted to carry said friction disc and said governor, a track for said carriage comprising a horizontally disposed plate hinged at one end and being supported at the other end by means of a spring whereby the friction disc is pressed against the under side of the turntable and a link member connecting said tone arm and said carriage whereby the carriage is moved by the phonographic needle as the latter traverses the record disc thereby causing the friction disc to be moved across the under side of the turntable with and at a point immediately beneath the needle.

1,683,671. LOCOMOTIVE STRUCTURE. KARL S. HOWARD, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Aug. 18, 1926. Serial No. 129,932. 22 Claims. (Cl. 105—35.)



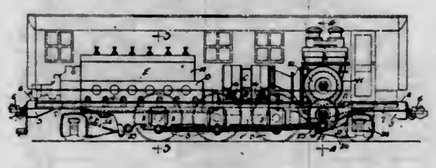
1. In a locomotive, a plurality of driving wheels on one side of the locomotive, driving gears for said wheels journaled independently of the same, idler gears in mesh with said driving gears, and a driving pinion in mesh with one of said gears.

1,683,672. LOCOMOTIVE STRUCTURE. KARL S. HOWARD, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Aug. 18, 1926. Serial No. 129,933. 21 Claims. (Cl. 105—172.)



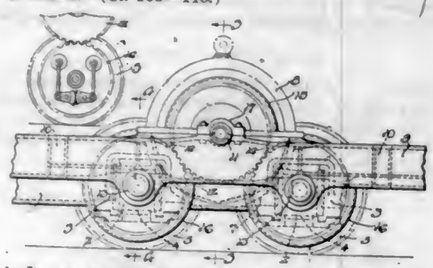
1. In a cab underframe for an electric locomotive, longitudinal sills and generator frame elements connecting said sills and formed integrally therewith.

1,683,673. LOCOMOTIVE STRUCTURE. KARL S. HOWARD, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Aug. 18, 1926. Serial No. 129,934. 27 Claims. (Cl. 105—35.)



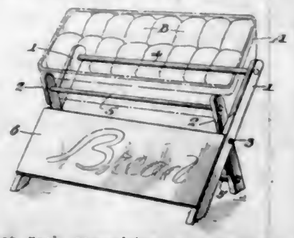
1. A one piece casting forming a locomotive bed and including parallel sills, and an engine crank case member extending between said sills and forming a longitudinal and transverse brace therefor below the tops of said sills.

1,683,674. LOCOMOTIVE STRUCTURE. KARL S. HOWARD, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Aug. 18, 1926. Serial No. 129,935. 9 Claims. (Cl. 105—113.)



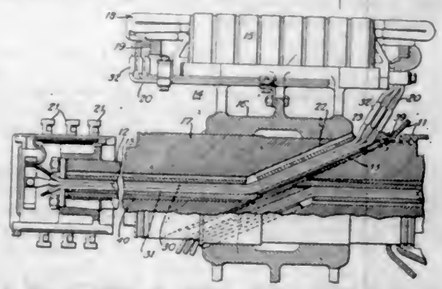
1. In an electric locomotive, a plurality of driving wheels, individual driving gears for said wheels, flexible elements operatively connecting said gears with their respective wheels, a common driving pinion for both of said gears, and a single member forming bearings for said gears and pinion.

1,683,675. BREAD-BASKET RACK. BARTLETT G. HOWE, Galesburg, Ill., assignor to Howe-Anderson Company, Galesburg, Ill., a Corporation. Filed Nov. 4, 1927. Serial No. 231,026. 3 Claims. (Cl. 211—85.)



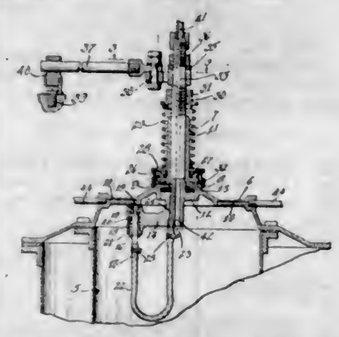
1. A basket rack comprising at each side a pair of pieces pivotally connected intermediate their ends, the inner piece of each pair above the pivot being shorter than the other, a bar connecting the upper ends of the short pieces, a bar connecting the upper ends of the long pieces, and a board connecting the long pieces below the pivots and acting to limit the movement of the short pieces about the pivots in either direction, whereby a supporting basket will be displayed at substantially the angle of said board and its contents observed simultaneously with the board.

1,683,676. DYNAMO-ELECTRIC MACHINE. HERBERT G. JUNGK, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 15, 1924. Serial No. 755,840. 12 Claims. (Cl. 171—206.)



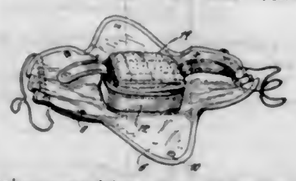
7. The combination with the rotor of an electrical machine having a straight duct for receiving an electrical conductor, of means extending substantially throughout the length of said duct in wedging engagement therewith for retaining said conductor in position within said duct, said means comprising a plurality of parts of segmental cross-section, the inner surfaces of said parts being recessed to receive said conductor, the outer surfaces of said parts being recessed to provide ventilating openings between said retaining means and the walls of said duct.

1,683,677. FILLING MECHANISM. JAMES KANTOR, OTTO W. FICK, and WILLIAM JAMES TRAXEL, Chicago, Ill., assignors to Liquid Carbonic Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1926. Serial No. 101,542. 4 Claims. (Cl. 226—98.)



1. In a machine for filling with liquid, bottles containing air under pressure, a filling mechanism comprising an air pressure tank, a cover for said tank having an air passageway therein communicating with each of the bottles and a centrally disposed opening, a valve stem having an air inlet and an air outlet and extending through said opening, said valve stem being held against rotation with respect to said cover, means communicating with said air outlet and disposed in said tank for communicating with the air passageways in said cover for cutting off the air pressure in said tank from the bottles and for allowing a portion of the air in the bottles to pass into the atmosphere, and means disposed adjacent said air outlet for varying the amount of air passing therefrom.

1,683,678. UTILITY BAG. WILLIE B. KITTERMAN and FLORENCE HOWLAND MILLS, New York, N. Y. Filed Feb. 1, 1927. Serial No. 165,197. 4 Claims. (Cl. 150—1.)



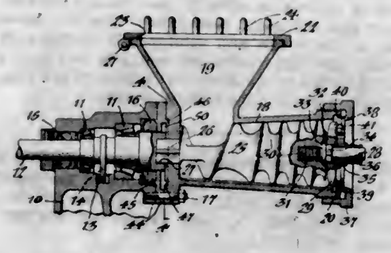
1. A container comprising a piece of material, pairs of oppositely disposed flaps formed thereon, a receptacle so positioned on the piece of material that the flaps may be drawn thereover to cover the same, draw strings in one pair of the oppositely disposed flaps for holding the same together, fasteners in the other pair of flaps for holding the same closed, and the draw strings providing an arrangement whereby the container may be suspended.

1,683,679. MEAT AND FOOD GRINDER. EUGENE W. KNOWLTON, Buffalo, N. Y., assignor to John E. Smith's Sons Co., Buffalo, N. Y., a Corporation of New York. Filed May 7, 1925. Serial No. 28,603. 7 Claims. (Cl. 146—182.)

1. A meat grinding machine, comprising a grinder-casing including a hopper, and prongs applied to the top of said hopper for facilitating the removal of the meat from the loading fork.

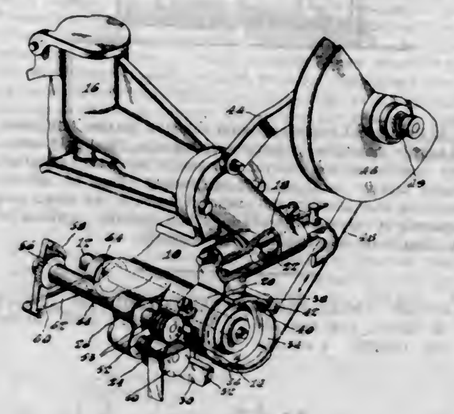
6. A meat grinding machine, comprising a grinder-casing, a perforated plate in the front end of said casing, a

feed-screw operating in the casing and having a threaded opening in its front end, a spindle having a threaded rear portion engaging said screw-opening and having its front portion extended through a central opening of said plate,



a knife mounted on said spindle on the inner side of said plate, and a spindle bushing separate from said plate fixed in its opening and having a hand grip for turning the spindle to remove the plate and the knife as a unit.

1,683,680. COATING MACHINE. FRED N. LA CHAPELLE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 22, 1920, Serial No. 425,743. Renewed May 21, 1926. 31 Claims. (Cl. 12—80.)



1. In a shoe coating machine, an applying member, and an imperforate shielding member situated between part of the applying member and the work so that one edge thereof defines the line of demarcation between coated and uncoated surfaces, said shielding member covering the remainder of the applying member and having a surface with which the covered portion of the applying surface of the applying member contacts.

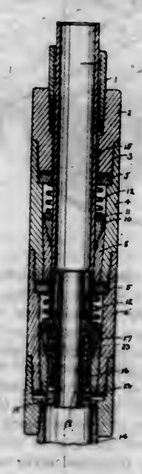
1,683,681. MAKING CELLULOSE ETHERS AND ALKALI CELLULOSE. LEON LILIENFELD, Vienna, Austria. Filed June 16, 1923, Serial No. 645,911, and in Austria July 13, 1922. 15 Claims. (Cl. 260—10.)

1. The process of preparing low water content alkali cellulose, which process comprises treating an alkali cellulose obtained by evaporating water from an alkali cellulose containing more water than alkali, with solid caustic alkalies.

1,683,682. PREPARATION OF ALKALI CELLULOSE AND CELLULOSE ETHERS. LEON LILIENFELD, Vienna, Austria. Filed June 16, 1923, Serial No. 645,913, and in Austria July 13, 1922. Renewed Apr. 5, 1927. 20 Claims. (Cl. 260—152.)

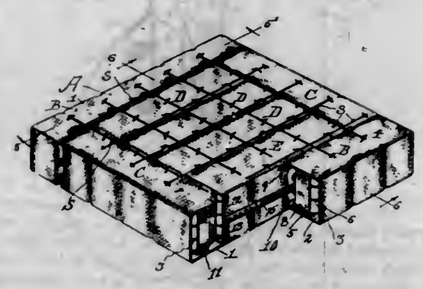
1. In the process of preparing alkali celluloses of low water content by drying watery alkali celluloses, the step of drying below 18° C.

1,683,683. DETACHABLE PILOT FOR PUMP PLUNGERS. GERALD R. LIVERGOOD, Houston, Tex., assignor of one-fourth to W. L. Pearson, Harris County, Tex. Filed June 25, 1926, Serial No. 118,511. Renewed June 26, 1928. 9 Claims. (Cl. 103—179.)



1. In a device of the character described, a barrel, a cylindrical member movable therein, expansible packing means in said barrel bearing against said member, a pilot member on one end of said movable member, means holding said pilot member in resilient engagement with said movable member, said pilot holding means being adapted to be automatically disengaged, to retain said packing in position when said movable member is withdrawn therefrom.

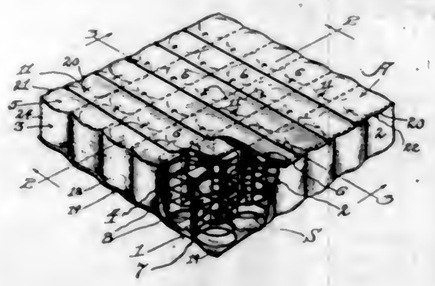
1,683,684. SPRING MAT FOR UPHOLSTERED ARTICLES. JAMES L. MACINERNEY, Grand Rapids, Mich. Filed Feb. 15, 1926. Serial No. 88,236. 5 Claims. (Cl. 5—353.)



1. The method of assembling a plurality of spring containing strips to form a mat unit, some of said strips having a continuous top, bottom and one side wall, and one open

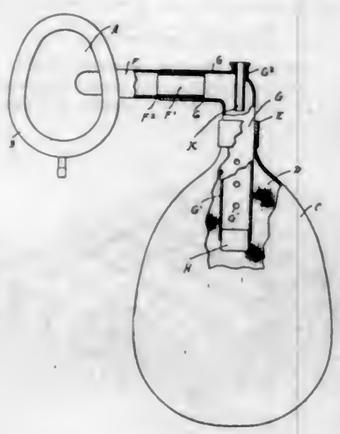
side, and one strip having a continuous top, bottom and two side walls, and end walls for some of said strips, which consists in grouping the several strips with the open side of one strip against the closed side of some strips and against the closed ends of other strips, whereby the various springs are surrounded only by one thickness of burlap.

1,683,685. SPRING MAT FOR UPHOLSTERED ARTICLES. JAMES L. MACINERNEY, Grand Rapids, Mich. Filed May 6, 1926. Serial No. 107,018. 3 Claims. (Cl. 5—353.)



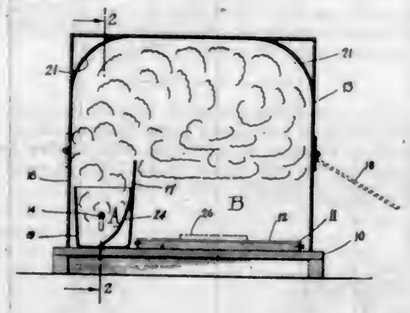
1. A device of the character described consisting of a coiled spring-contained cellular casing, said casing comprising a rectangularly shaped piece of fabric folded to form a bottom and two side walls, an inverted U-shaped fabric strip having its longitudinal margins connected to said bottom and extending from one folded side wall to the other, a plurality of inverted L-shaped pieces of fabric parallel to each other and to said U-shaped piece, one margin of the L-shaped pieces being connected to the bottom fabric, the free margin of one of said L-shaped pieces overlapping the U-shaped strip and the free margins of the other L-shaped pieces overlapping an adjacent L-shaped piece.

1,683,686. INHALING DEVICE. JOHN W. MCMILLAN, Muncie, Ind. Filed Nov. 20, 1926. Serial No. 149,580. 2 Claims. (Cl. 128—202.)



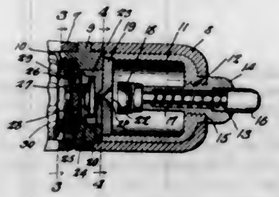
1. In an inhaling device, an inhaling chamber, a hollow foot piece extending from the same in a plane parallel with the open face of the chamber, a substantially L-shaped hollow arm, one end of which has a fitting and rotatably adjustable union with the foot piece and the opposite end having a plurality of openings in longitudinal series therethru, an air-tight bag into which the perforated end of said hollow arm is adjustably mounted to expose a variable area of air openings, whereby a greater or less amount of air may be added to the inhaling medium, and an inlet pipe extending downwardly thru the horizontal portion of the hollow arm substantially centrally of the vertically extending portion of said arm and to a point below the hollow of the horizontal portion of the arm, and above the lower end of the vertical portion.

1,683,687. ART OF DYEING. PIETER MIJER, New York, N. Y., assignor, by mesne assignments, to The Two-Tone Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 14, 1924. Serial No. 692,762. 45 Claims. (Cl. 8—5.)



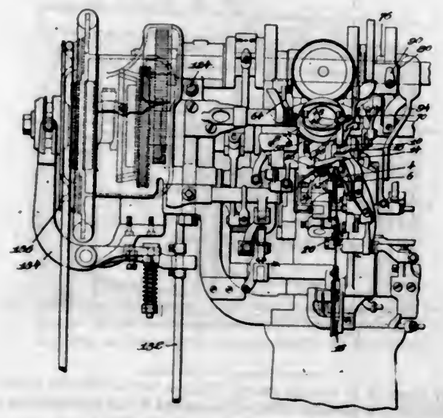
1. Process of applying liquid coloring matter uniformly to textile materials, comprising atomizing the liquid coloring matter under control, accumulating said atomized liquid matter to form a homogeneous cloud of minute particles and locating the material beneath the cloud and exposing it thereto whereby only non-spotting particles of the liquid are deposited on such material.

1,683,688. CIGAR AND CIGARETTE LIGHTER. HORACE R. MILAN, New York, N. Y. Filed Jan. 13, 1927. Serial No. 160,953. 4 Claims. (Cl. 67—19.)



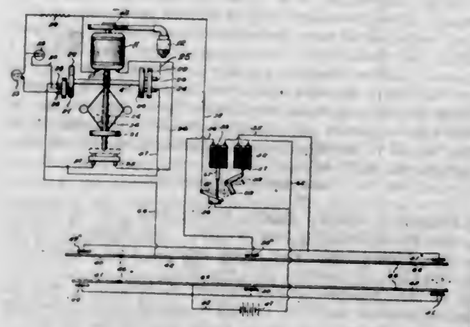
1. A cigar lighter including an open ended body portion, a liquid container supported within the body portion, a heating element supported in the open ended body portion and including a coil of heating wire, a disk of black platinum sponge supported within the coil of heating wire, a porous member for supporting the coil and disk of black platinum sponge, and means for forcing a quantity of liquid onto the porous member to mingle with air entering the body portion to set up a catalytic action whereby the wire is caused to glow.

1,683,689. WAX-THREAD-SEWING MACHINE. ALFRED R. MORRILL, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 5, 1917. Serial No. 205,610. 27 Claims. (Cl. 112—252.)



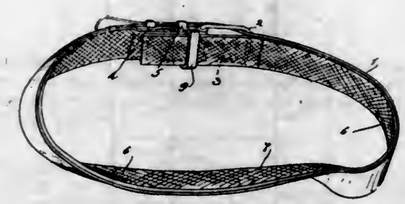
25. An outsole shoe sewing machine having, in combination, shoe supporting and guiding devices comprising a work support and a presser foot arranged to receive between them the projecting edge of the sole of a lasted shoe, sewing mechanism constructed and arranged to sew the outseam of the shoe, a thread severing device mounted in the work support and arranged to sever the thread close to the work substantially in the plane of the work engaging surface of the work support, and means for actuating said device to sever the thread at the completion of the sewing while the shoe is in position between the work support and presser foot.

1,683,690. CROSSING SIGNAL. JOHN A. MORRISON, Seattle, Wash., assignor to Safety Signal Company, a Corporation of Washington. Original application filed Dec. 4, 1926, Serial No. 152,622. Divided and this application filed July 23, 1927. Serial No. 207,948. 2 Claims. (Cl. 246—125.)



1. In combination with an electrically operated signal for railway crossings, a right-of-way including a section in which the rails are insulated from the remainder of the right-of-way and from one another, a normally closed switch, a source of E. M. F., a circuit including said rails, the switch, the source of E. M. F. and the signal, a train controlled latch for maintaining the switch in open position and controlled by a train to release the switch prior to entering and after leaving said section and train operated means controlled by the train while in said section for moving the switch to a position where it is engaged by said latch.

1,683,691. BELT. WILLIAM REDFORD MULOCK, Winnipeg, Manitoba, Canada. Filed May 17, 1926. Serial No. 109,762. 1 Claim. (Cl. 241—8.)



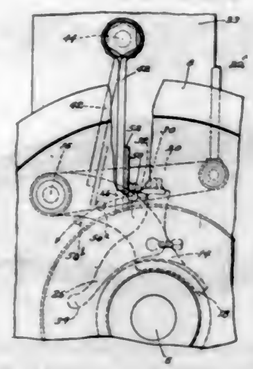
The combination with a belt strap provided with buckling means, of a flexible rubber strip cemented to the inner face of the belt strap and of the full width thereof and having the inner face provided with a plurality of integrally formed wedge shaped gripping projections, the projections being arranged in intersecting diagonal rows crossing the face of the strip.

1,683,692. DEPTH CHARGE, BOMB, PROJECTILE, AND OTHER EXPLOSIVE BODIES. AMOS OGDEN, Barrow-in-Furness, England, assignor to Vickers Limited, Westminster, England, a British Company. Filed Apr. 5, 1926, Serial No. 99,695, and in Great Britain Apr. 9, 1925. 3 Claims. (Cl. 102—3.)



1. A submarine explosive body wherein the firing gear comprises in combination two movable units which are normally out of contact with one another, means whereby, as said body sinks, both said units are moved towards each other into firing relationship at a predetermined depth of immersion, means for causing said units to explode the mine automatically as they reach said firing relationship, and safety means, located at a point between said relatively movable units, for preventing them from accidentally assuming firing relationship under the influence of inertia or momentum.

1,683,693. SAFETY DEVICE. PATRICK JOSEPH O'SULLIVAN, Woodside, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 25, 1923. Serial No. 653,784. 15 Claims. (Cl. 192—114.)



1. In a mechanism of the class described, a shaft, a pulley on the shaft, a clutch for operatively connecting the pulley to the shaft, means for locking the clutch in inoperative condition, and positively operated means controlled by a part of the machine which is in motion when the power is on, for moving the locking means to and maintaining it in inoperative position.

1,683,694. METHOD OF MANUFACTURING SULPHURIC ACID. WALTER A. PATRICK and ERNEST B. MILLER, Baltimore, Md., assignors to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Filed May 24, 1924. Serial No. 715,728. 6 Claims. (Cl. 23—175.)

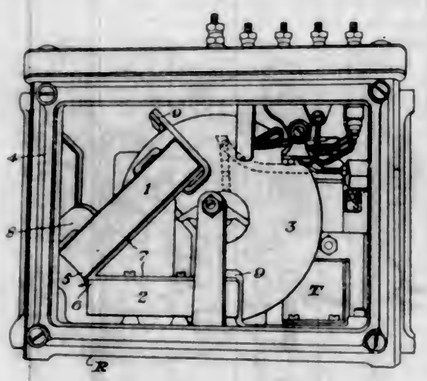
1. In the manufacture of sulphuric acid by the contact process, the step of contacting sulphur dioxid and a gas that will supply oxygen with an active mass consisting of a hard porous gel having associated therewith a substance capable of catalyzing sulphur dioxid to sulphur trioxid, said gel having pores of such size that it will adsorb water vapor to such an extent as to contain at least 21% of its own weight of water when in equilibrium with water vapor at 30° C. and a partial pressure of 22mm. of mercury.

1,683,695. METHOD OF PREPARING TUNGSTEN OXIDE GEL. WALTER A. PATRICK and EARLE H. BARCLAY, Baltimore, Md., assignors to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Filed Mar. 29, 1927. Serial No. 179,387. 3 Claims. (Cl. 23—140.)

1. The process of preparing a tungsten oxide gel which comprises adding acid to a solution of a tungstate with stirring, in such proportions that the final acidity after reaction will be about $\frac{1}{10}$ to $\frac{1}{5}$ normal, the addition of acid being stopped on the appearance of a precipitate until such precipitate redissolves on stirring whereupon more of the acid may be added, allowing the resulting sol to set to a hydrogel, and washing and partially dehydrating it.

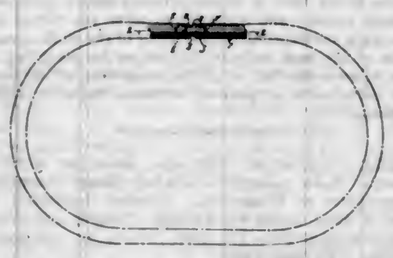
1,683,696. ALTERNATING-CURRENT RELAY. LESLIE H. PETER, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 18, 1928, Serial No. 255,478, and in Great Britain Feb. 15, 1927. 4 Claims. (Cl. 175—338.)

1. A relay comprising two distinct magnetizable cores each terminating in opposed pole-faces to form an air gap, a first winding associated with both said cores and operating when supplied with current to create fluxes in both said cores, a second winding associated with said pole faces



and adapted to receive energy from a source outside of the relay, and a movable element mounted to be oppositely affected by the fluxes traversing said air gaps.

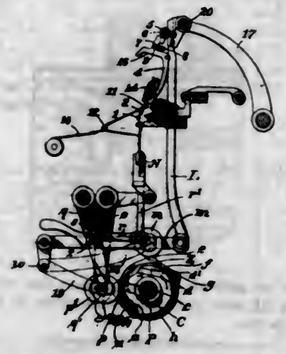
1,683,697. SPIRALLY-WOUND METALLIC BELT. DAVID P. RANKIN, Kearney, Nebr. Filed May 14, 1926. Serial No. 109,121. 1 Claim. (Cl. 74—66.)



A spirally wound metallic belt having a series of convolutions of uniform size and of hollow formation, a filler plug disposed between the adjacent ends of the uniformly sized convolutions of the belt, said filler plug having a cut-out portion presenting a flat horizontal base and two flat vertically disposed shoulders, the ends of the convolutions of the belt being bent inwardly to conform to the flat base aforesaid and engaging the flat sides defined by the recess to thereby prevent separation of the adjacent ends of the belt.

1,683,698. WELT MECHANISM FOR FULL-FASHIONED-KNITTING MACHINES. WOLFGANG D. RICHTER, Philadelphia, Pa. Filed June 21, 1927. Serial No. 200,433. 18 Claims. (Cl. 66—96.)

17. The hereindescribed method of turning a welt on full fashioned knitting machines consisting in attaching welt bar hooks to the initial loops, moving the needles to carry said loops below the knock over bits, after the prescribed number of courses have been knit, placing all the welt bars for all sections or heads of the machine in their prescribed relation to the needles, holding the loops on the welt hooked members at one level by sinkers and above the knock over bits, moving all the welt bars and all the sets of needles simultaneously and similarly to pass the needle beards through the said loops and withdraw the hooked members from said loops, then moving the needles to carry fabric loops from below the knock over bits to a



position above said knock over bits and adjacent the loops just taken on by said needles, and then proceeding with the knitting of the fabric, substantially as described.

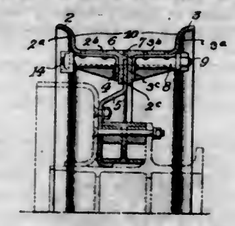
1,683,699. APPARATUS AND METHOD FOR PRODUCING KNITTED FABRICS. HARRY RUBENSTEIN, Brooklyn, N. Y. Filed June 18, 1925. Serial No. 36,914. 2 Claims. (Cl. 66—9.)



1. The method of producing a knitted fabric consisting in utilizing different sets of needles having a certain fixed relation and knitting a plurality of threads with the different sets in alternation whereby alternate threads will be linked together at points in staggered relation to the points of knitting of the other threads, and omitting the knitting action on one of the threads whereby it will be simply laid in with the adjacent thread for producing a distinctive pattern in the fabric.

1,683,700. METAL WHEEL FOR ELASTIC TIRES. CHARLES SCHENCK and LEWIS FINE, Bethlehem, Pa., assignors to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed June 17, 1920. Serial No. 389,757. 3 Claims. (Cl. 152—21.)

3. In a metal wheel, the combination of a web portion, a fixed annular rim portion having base and outwardly and inwardly-extending flange parts, means for securing the inwardly-extending flange part laterally of the web portion, the base part of said fixed annular rim portion having an annular flange or shoulder for peripherally engaging the web portion in order to relieve the securing means of vertical shearing stresses, a detachable rim portion complementary to the fixed rim portion and having base and outwardly and inwardly-extending flange parts, said inwardly-extending flange part adapted to engage the side of the web portion opposed to the side engaged by the first inwardly-extending flange part and to engage the outer edge of said shoulder or flange carried by the fixed rim portion, the base part of the detachable rim portion having an annular shoulder or flange adapted to lap the annular shoulder or flange of the fixed rim portion, the outwardly-extending flange parts of the rim portions forming a tire-receiving channel, means secured to the inner faces of the base parts of said rim portions to provide bolt-receiving openings and said means secured to the base part of the detachable rim portion providing openings extending substantially to the outer edge of the latter base part, bolts extending through said openings with threaded ends



protruding from the openings in the detachable rim portion, and nuts engaging the threaded ends of said bolts outwardly of the outer edge of the base part of the detachable rim portion.

1,683,701. ARTIFICIAL RESIN AND MAKING THE SAME. FRITZ SEEBACH, Gotha, Germany, assignor to Bakelite Gesellschaft mit beschränkter Haftung, Berlin-Charlottenburg, Germany. Filed Mar. 21, 1927, Serial No. 177,207, and in Germany Mar. 29, 1926. 6 Claims. (Cl. 260—4.)

1. A condensation product of phenols formaldehyde and aromatic amines, fusible and soluble in organic solvents, containing about 77–78% of carbon, 5–6% of hydrogen, 4% of nitrogen, of the molecular weight of about 870–880.

1,683,702. PROCESS FOR PURIFYING PHENOL FORMALDEHYDE RESINS. FRITZ SEEBACH, Erkner, near Berlin, Germany, assignor to Bakelite Gesellschaft mit beschränkter Haftung, Berlin, Germany. Filed Feb. 6, 1926, Serial No. 86,638, and in Germany Feb. 17, 1925. 3 Claims. (Cl. 260—4.)

1. The process of purifying soluble phenolaldehyde resins which consists in producing a colloidal solution of the said resins with alkalies in a quantity insufficient for transforming the said resins into their alkali metal salts, but sufficient for neutralizing the free phenols and avoiding the hydrolysis of the phenol alkali salts formed and precipitating the resins by means of water.

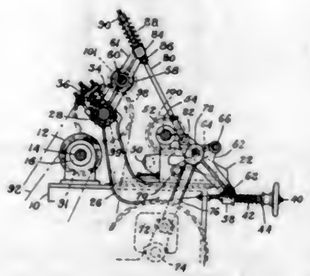
1,683,703. PROCESS OF SEPARATING THISTLE BUDS FROM PEAS. OGDEN S. SELLS, Hoopeston, Ill., assignor to Sprague-Sells Corporation, Hoopeston, Ill. Filed Sept. 8, 1924. Serial No. 736,641. 2 Claims. (Cl. 209—173.)

1. The process of separating mixed masses of shelled peas and thistle buds having the characteristic of being non-buoyant at normal temperatures, the thistle buds having the added characteristic of acquired buoyancy through contact with an increase in temperature, consisting in submerging mixed masses of peas and thistle buds in a water bath heated to approximately 115° to 150° F., whereby the occluded air in the folded petals of the thistle buds is expanded thus giving buoyancy to said thistle buds and permitting them to separate and float away from the mass, then removing the floating thistle buds before they again sink through a drop in temperature of the liquid bath.

1,683,704. LEATHER-WORKING MACHINE. GUSTAV ADOLF SCHETTLER, Bramley, Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Feb. 9, 1925, Serial No. 7,977, and in Great Britain Feb. 14, 1924. 33 Claims. (Cl. 149—16.)

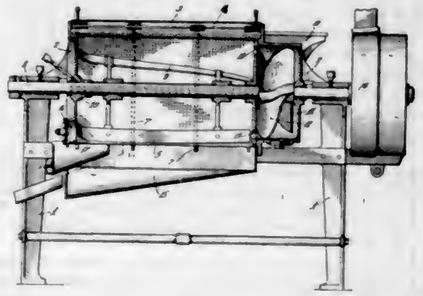
1. A machine for operating upon sheet material comprising a working instrumentality and an organization of work-engaging rolls, which instrumentality and organiza-

tion are yieldable relatively one to the other during operation of the machine to compensate for variations in thickness of the sheet material being worked by said instrumentality, one of said rolls being arranged to coact with said intsrumentality to form a working couple, and a plurality of said rolls being arranged to coact with one of said



rolls on a plurality of separate lines to grip the sheet material and feed it past said instrumentality, one of the work-engaging rolls remaining stationary with respect to the working instrumentality while others of the rolls move away therefrom to work-receiving position to permit sheet material to be introduced into the machine.

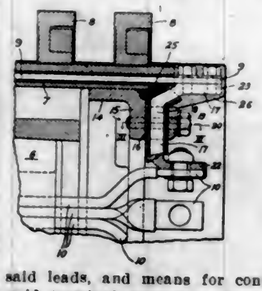
1,683,705. VEGETABLE-PULPING MACHINE. JOHN SCHMIDT, Hoopeston, Ill., assignor to Sprague-Sells Corporation, Hoopeston, Ill. Filed May 27, 1926. Serial No. 112,026. 15 Claims. (Cl. 146—174.)



6. A machine for treating vegetable materials comprising treating means including an enclosed chamber, a circular screen member in said chamber consisting of a plurality of sections, one of which is fixed against movement, members for receiving treated material located under said fixed screen member, said receiving members having adjustment means relative to each other.

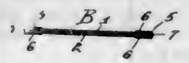
1,683,706. HOLLOW-SHAFT COLLECTOR-LEAD SUPPORT. THOMAS S. SCOTT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 30, 1926. Serial No. 105,762. 4 Claims. (Cl. 171—252.)

2. The combination with a hollow shaft, of relatively flexible electric conductor leads therein, a current-collecting device mounted on said hollow shaft adjacent to the end thereof, said current-collecting device mounting comprising an end face, a plurality of separate, relatively rigid, radially extending, terminal connectors, insulatingly clamped, at intermediate points between their ends, to said end face, means for joining the inner ends of said terminal



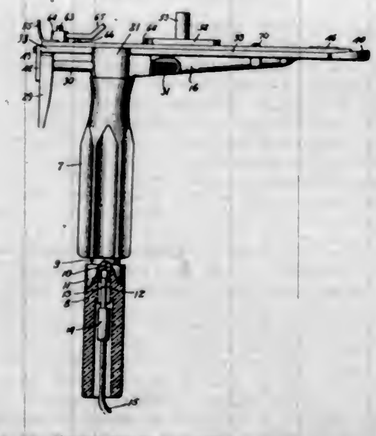
connectors to said leads, and means for connecting the outer ends of said terminal connectors to said current-collecting device.

1,683,707. CLOTH BOARD AND SIMILAR ARTICLE. HARRY BRIDGMAN SMITH, Brooklyn, N. Y., assignor to Lightship Cloth Board Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 18, 1923. Serial No. 669,392. Renewed July 25, 1928. 2 Claims. (Cl. 206—50.)



1. Cloth board or the like, composed of superimposed webs connected by lines of adhesive spaced apart from each other a distance corresponding substantially to the width of the individual lines, the lines so arranged with respect to the webs that the tendency of the webs to buckle when rolled or folded on any line substantially parallel to the axis on which the board is rolled will be restrained by connecting lines of adhesive between the webs crossing said probable line of buckle at a number of points between the side edges of the board.

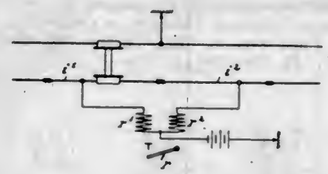
1,683,708. ELECTROSURGICAL INSTRUMENT. FREDERICK H. WAPPLER, Flushing, GEORGE H. HULTMAN, Queens Village, and CHARLES FAYER, Flushing, N. Y., assignors to Wappler Electric Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Sept. 11, 1925. Serial No. 55,655. 11 Claims. (Cl. 174—89.)



1. In an electro-surgical instrument the combination of a head provided with an opening, a guide fork mounted upon said head and partially bounding said opening, a loop

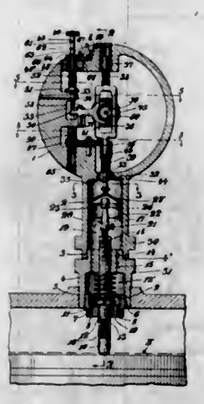
plate slidably mounted upon said head and carrying a loop extending across said opening, said loop plate being adjustable relatively to said head so as to adjust said loop relatively to said opening in order to grasp an organ or the like, a slide electrode carried by said head and movable relatively thereto, said slide electrode being provided with an operating surface disposed adjacent said opening for the purpose of severing said organ or some anatomical part holding the same, and means for electrically energizing said slide electrode.

1,683,709. SAFETY CONTRIVANCE ON PERMANENT RAILWAY TRACKS. KARL ERNST WENZEL, Hamborn, Germany, assignor to Rangiertechnische Gesellschaft m. b. H., Hamborn, Germany, a Corporation of Germany. Filed Jan. 6, 1928, Serial No. 244,972, and in Germany Mar. 21, 1927. 1 Claim. (Cl. 246—58.)



In combination, a relay comprising a winding and an armature, two series resistances connected in parallel to said relay, and a two-part insulated rail section of a permanent railway track, the two parts of the insulated rail section being connected each to one of said series resistances and adpted to be simultaneously short-circuited for an attraction of the relay armature by each two succeeding train wheel axles running over the same, one of said resistances when current-fed holding the attracted relay armature in said latter position upon the short-circuiting of one part only of said insulated rail section.

1,683,710. ENGINE-TESTING GAUGE. GEORGE ZITZMANN, New York, N. Y., assignor to Automatic Motor Control Corporation. Filed June 3, 1921. Serial No. 474,671. 22 Claims. (Cl. 73—151.)

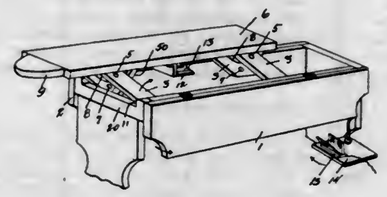


1. In an engine tester, a housing adapted to be temporarily secured in open communication with a cylinder of an engine, a movable indicator therein, a plurality of independent members within the housing for actuating the indicator, compression actuated means for actuating one of said members, piston actuated means for actuating the other of said members, optional means to couple either of said members with the indicator.

14. In an engine tester adapted for temporary securement to an engine cylinder in an offset position relative to the piston therein, an actuating rod within the tester, a contacting member adapted to be associated with said actuated rod and comprising a plurality of links adapted to freely pass through an offset aperture in the cylinder and to extend to a point in the cylinder above the engine piston, and means for rigidly locking said links in extended position.

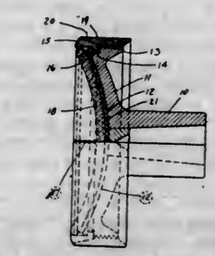
18. An engine testing instrument comprising a member adapted for attachment in an opening of an engine cylinder, indicating means carried by the member, and operating means cooperating with the indicating means, said operating means comprising pressure actuated means and piston operated means.

1,683,711. TABLE. RAY F. BURWELL, Alexandria, Ind., assignor of forty-nine one-hundredths to Fingo Theanders, Marion, Ind. Filed May 16, 1925, Serial No. 30,719. Renewed June 25, 1928. 1 Claim. (Cl. 45—17.)



The combination of a table frame having a recess in one end bar thereof, a top on the frame comprising a middle and two side leaves, said middle leaf normally forming part of the table top and capable of being raised to form an ironing board, two pairs of links, pivoted to the side bars of the frame and to the under side of the middle leaf adjacent opposite ends of the latter, and adapted to support the middle leaf in raised position, the middle leaf having a folding extension hinged to one end thereof and foldable under said end to position in said recess and between said end and the frame.

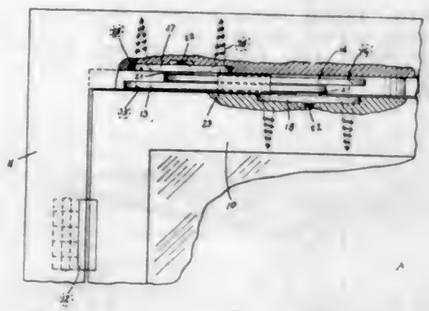
1,683,712. HOLDER FOR OPTICAL LENSES. CHARLES C. CLARK, Indianapolis, Ind., assignor to Continental Optical Corporation, New York, N. Y., a Corporation. Filed Apr. 29, 1927. Serial No. 187,455. 2 Claims. (Cl. 51—217.)



1. A holder for optical lenses comprising an annular body adapted to receive an annular lens, said body being provided with an annular groove extending about the

periphery thereof, a clamping ring positioned about the periphery of said body in position to engage and clamp the peripheral edge of said lens and having a flange extending into said groove for retaining said clamping ring on said body, and a collar rotatably mounted on said body in position to engage said clamping ring and contract it into clamping engagement when moved in one direction and releasing it from clamping engagement when moved in the opposite direction.

1,683,713. DOORCHECK. FLOYD K. EASTMAN, Kokomo, Ind., assignor to Concealed Door Check Company, Kokomo, Ind., a Corporation. Filed Apr. 22, 1927. Serial No. 185,809. 7 Claims. (Cl. 16—85.)



1. A door check comprising a pair of links having longitudinal slots therein, means for pivotally anchoring each of said links at one end thereof, and a slide member slidably supported by both of said links intermediate their ends for maintaining said links in alignment while permitting them to slide relative to each other.

1,683,714. PROCESS FOR THE PRODUCTION OF IRON CASTINGS WITH A LOW-CARBON CONTENT. KARL EMMEL and HANS WALBERT, Mulheim-Ruhr, Germany; said Walbert assignor to said Emmel. Filed Aug. 11, 1925, Serial No. 49,629, and in Germany Dec. 9, 1924. 2 Claims. (Cl. 75—44.)

1. A process for the production of iron castings having a low carbon content, consisting in feeding into and melting in a cupola furnace using solid fuel a charge whereof the iron portion consists of at least 50% of iron low in carbon (wrought-iron or steel) the remainder of the iron contents contained in the charge consisting of iron rich in carbon (that is, pig-iron of high total carbon and silicon content) to which total iron are added admixtures as are usually employed in the production of grey cast-iron and a quantity of coke amounting to between 9 and 13% of the total charge, and submitting the charge to a blast pressure of between 400 and 800 mms. water gauge pressure, such pressure being varied according to whether the total carbon content in the resultant product is to be nearer 2% or 3%.

1,683,715. PRESSURE DEVICE FOR FRICTION GEARS, BRAKES, COUPLINGS, AND THE LIKE. RICHARD ERBAN, Vienna, Austria. Filed Aug. 25, 1924, Serial No. 734,115, and in Austria Sept. 1, 1923. 11 Claims. (Cl. 64—89.)

1. In a pressure device of the kind described, spaced disks facing one another, one of said disks being turnable relatively to the other disk, separate hard metal pressure plates inserted in said disks, and each having inclined surfaces, the inclined surfaces of the pressure plates of one disk facing the inclined surfaces of the pressure plates of



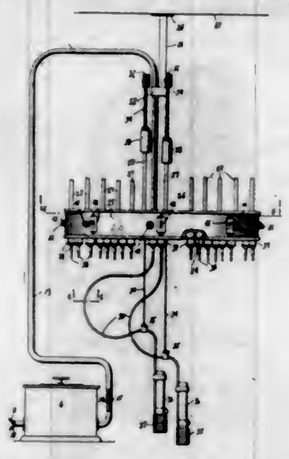
the opposite disk, and rolling elements arranged between the disks and each engaging the inclined surfaces of a pair of the oppositely disposed pressure plates.

1,683,716. ANTENNA FOR RADIOTELEGRAPHY. LLOYD ESPENSCHIED, Queens, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 3, 1921. Serial No. 498,186. 11 Claims. (Cl. 250—33.)



1. A transmission line sectionalized as to high frequency currents by interposed inductances and respective detecting means to co-operate with each section to utilize it as a radio antenna.

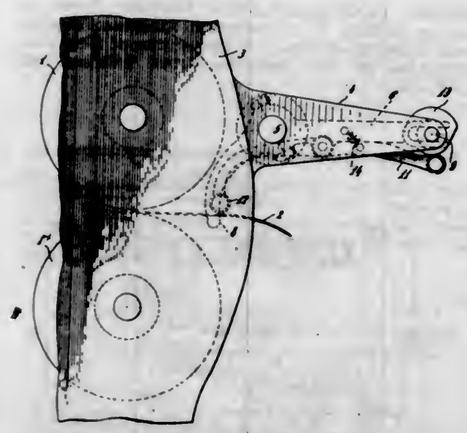
1,683,717. ELECTRICALLY-OPERATED HAIR-CURLING MACHINE. CHARLES FAYEN, Flushing, N. Y., assignor to Wappler Electric Company, Inc., a Corporation of New York. Filed Nov. 23, 1926. Serial No. 150,184. 4 Claims. (Cl. 219—24.)



1. In a device of the character described the combination of a center post, means for suspending said center post, a base plate carried by said center post and having the proximate form of a disc, an annular wall carried by a base plate and therewith forming a box like member, a pair of

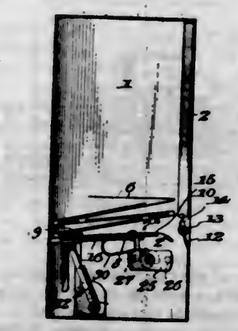
distributing discs supported upon said center posts and insulated from each other, said distributing discs being housed within said box like member, and means for energizing said distributing discs.

1,683,718. PAPER-FEEDING MEANS FOR PRINTING PRESSES. WILLIAM GROENHEIMER, Baldwin, N. Y. Filed Feb. 25, 1927. Serial No. 170,821. 2 Claims. (Cl. 101—232.)



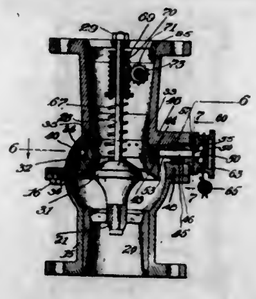
1. In feeding devices for printing presses, a support, a lever pivotally mounted on said support and carrying a roll for engagement with one marginal surface of a sheet, a rock lever provided with a roll for engagement with the opposite face of the sheet, a spring acting upon the levers to move said rolls toward each other and a cam periodically acting upon said levers to separate the rolls, one of the rolls being held at an angle to the marginal line of the sheet.

1,683,719. MACHINE FOR DISPENSING PAPER TOWELS. EDWARD HARRALSON, Washington, D. C. Filed Feb. 2, 1927. Serial No. 165,292. 7 Claims. (Cl. 312—51.)



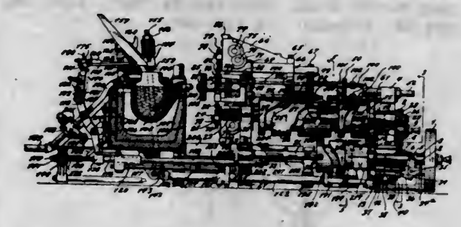
6. In a dispensing machine of the ejector type provided with a container adapted for holding a packet of articles, a horizontal member for supporting the packet in elevated position above the ejector at that side of the packet from which an article may be dispensed from the bottom part of the packet, thereby providing a free space below the packet through which the lowermost article of the packet may be shifted when being dispensed, and dispensing means operating in said free space.

1,683,720. GOVERNOR FOR INTERNAL-COMBUSTION ENGINES. DAVID L. A. LARSONNEUR, Chicago, Ill. Filed Dec. 24, 1925. Serial No. 77,655. 4 Claims. (Cl. 137—152.)



1. A governor of the kind described comprising a casing having a passage therethrough, a valve seat formed in said casing, a valve engageable with said seat to close said passage, said casing having an annular passage therein extending from a point anterior of the valve seat to a point posterior thereof, an annulus rotatably mounted on the casing for controlling the passage of fluid through said annular passage, and means for actuating said annulus.

1,683,721. DIE-CASTING MACHINE. LOUIS H. MORIN, New York, N. Y., assignor to Doehler Die-Casting Co., a Corporation of New York. Filed Aug. 14, 1924. Serial No. 731,947. 50 Claims. (Cl. 22—69.)

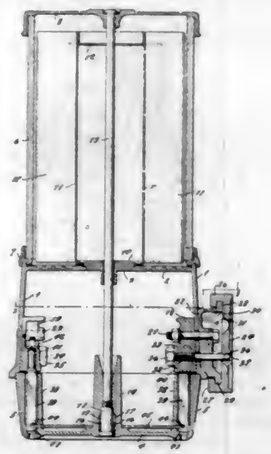


1. A die casting machine having, in combination, a slide to carry thereon one section of a die, a cam follower on the slide, a slide to carry thereon another section of the die, a cam follower on the latter slide, a rotary operating cam engaging with the cam follower on one of the slides, a rotary operating cam engaging with the cam follower on the other slide, and means for concomitantly rotating said cams in timed relation.

1,683,722. VENDING MACHINE. LOUIS H. MORIN, New York, N. Y., assignor to Doehler Die-Casting Co., a Corporation of New York. Filed Feb. 15, 1927. Serial No. 168,300. 19 Claims. (Cl. 312—35.)

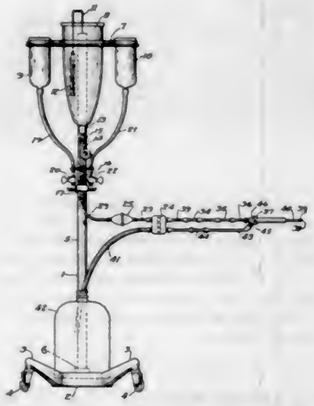
1. In a vending machine construction, the combination of a lower casing part having an enclosing side wall closed at its upper end, an openable closure for the lower end of said casing part forming a coin receptacle, a lock to prevent the unauthorized opening of said closure, a wall bracket forming a support for the casing, a bracket-engaging member fixedly carried by the side wall of said casing part to have detachable engagement with the wall bracket, manually releasable means unreleasable prior to the opening of said closure and engageable with the wall bracket to prevent the unauthorized disengagement of said member therefrom, a magazine casing part closed at its top removably supported upon and closed at its bottom

by the closed upper end of the said lower casing part, and means including a lock for separably securing the magazine casing part upon the lower casing part to provide for



the replenishing of the magazine while the coin-receiving closure for the lower casing part remains in locked condition.

1,683,723. COLONIC MOBILE UNIT. ROBERT WILLIAM MYERS, Seattle, Wash., assignor to Vattenborg Systems Inc., Seattle, Wash. Filed Oct. 24, 1927. Serial No. 228,188. 4 Claims. (Cl. 128—227.)

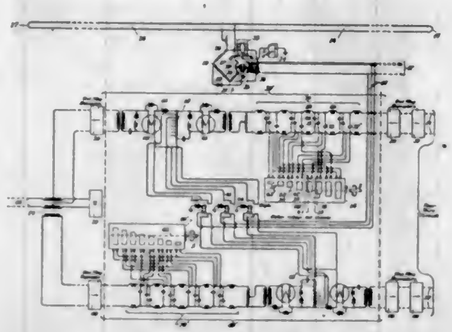


4. In an irrigating unit of the class described, a plurality of containers, suitable connections from the said containers to a common tube, means for regulating the flow in the said connections, a valve member attached to the common tube, said valve member being adaptable to permit fluids to pass therethrough in both directions at the same time and also to permit the fluid in one part thereof to pass out with the fluid in the other part thereof, a colon tube connected to the opposite end of the passage to which the said common tube is attached, an applicator on the said colon tube, another tube connecting the base of the said applicator to one part of the said valve member, the other part of the said valve member having a tube leading therefrom, and a discharge container into which the said latter tube passes.

1,683,724. FLOTATION OF ORES. ADOLPHE H. NEY, New York, N. Y. Filed Dec. 27, 1926. Serial No. 157,407. 2 Claims. (Cl. 209—166.)

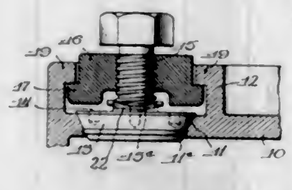
1. The method of concentrating orea by froth flotation which comprises subjecting the mineral in form of an alkaline pulp to a froth flotation operation in the presence of the products of reaction of an excess of disulfurdichloride upon aromatic amino compounds having at least one orthoposition to the amino group free or unsubstituted.

1,683,725. PHASE-REGULATING SYSTEM. HARRY NYQUIST, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 26, 1926. Serial No. 97,795. 7 Claims. (Cl 178—44.)



5. In combination, a cable, a circuit and a pilot wire therein, an artificial network comprising shunt capacity connected to said circuit, and means operated by resistance changes in said pilot wire and controlling said shunt capacity to compensate for corresponding capacity changes in the circuit.

1,683,726. BOILER PLUG. ELWOOD K. PIERCE, Springfield, Ohio, assignor to The Cast Steel Devices Company, Lima, Ohio, a Corporation of Ohio. Filed Dec. 30, 1926. Serial No. 157,931. 2 Claims. (Cl. 220—57.)



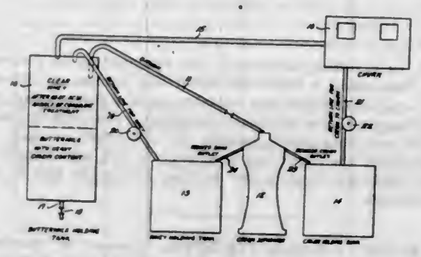
1. In a device of the character set forth an annular casing provided with a pair of oppositely disposed locking flanges and intermediate slot openings all of substantially equal circumferential length, a closure member, a locking piece, a screw threaded through said locking member for engaging said closure member, said locking piece having a pair of oppositely disposed lugs adapted to be inserted in said slot openings and rotatable into interlocking position beneath said locking flanges, and a stop formed integrally with said casing at one side of one of said slot openings limiting rotation of said locking member at substantially a quarter turn from its unlocked position, one of said locking lugs being cut away at a lower corner thereof to accommodate said stop.

1,683,727. LIQUID VALVE. WILLIAM H. ROSE, Jersey City, N. J. Filed Sept. 23, 1927. Serial No. 221,838 8 Claims. (Cl. 221—94.)



1. A resilient valve body having a longitudinal recess therein and a resiliently normally closed aperture through the side of the valve wall into said recess so positioned that a transverse movement of the valve portion below the aperture will open said aperture.

1,683,728. SEPARATION OF BUTTERFAT FROM BUTTERMILK AND BUTTERMILK WHEY. ARTHUR L. RUSHTON, Omaha, Nebr., assignor of one-half to Munson H. Lane, Washington, D. C. Filed Feb. 16, 1927. Serial No. 168,669. 1 Claim. (Cl. 99—13.)



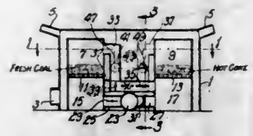
A process of separating butterfat from sour cream buttermilk by the use of a centrifugal separator, which consists in first chemically treating the buttermilk with a suitable reagent to materially reduce the clogging tendency of the casein in the buttermilk, then subjecting the treated buttermilk to centrifugal action in a cream separator for a period substantially longer than in ordinary cream separation.

1,683,729. PROCESS FOR RECOVERING BUTTER FROM BUTTERMILK. ARTHUR L. RUSHTON, Omaha, Nebr., assignor of one-half to Munson H. Lane, Washington, D. C. Filed Sept. 29, 1927. Serial No. 222,945. 4 Claims. (Cl. 99—13.)

4. A process for treating sour cream buttermilk or buttermilk whey to recover a portion of the butter fat thereof, which consists in effecting a primary separation to separate the recoverable from the non-recoverable fat portions, the primary separation consisting in passing the buttermilk or buttermilk whey through a centrifugal separator at approximately the same rate used for separating the cream from whole milk, recovering the fluid emerging from the cream outlet of the separator, then effecting a secondary separation by passing such recovered fluid through a cream separator at a substantially less rate than that employed in treating whole milk, recovering "buttermilk cream" from the cream outlet, then churning said buttermilk cream to obtain butter.

1,683,730. FURNACE. SILAS BENT RUSSELL, St. Louis, Mo. Filed May 27, 1927. Serial No. 194,694. 2 Claims. (Cl. 110—27.)

1. A furnace comprising a plurality of fire pots and means for inducing a draft through said pots alternately in series and in parallel, automatic means for changing said draft from series operation to parallel operation comprising a plurality of dampers normally subject to forces for changing their setting, control means for temporarily resisting said forces, means operable at a predetermined temperature for releasing said control means so that it does

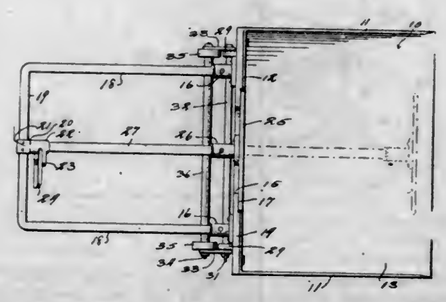


not resist said forces, whereby said forces actuate said dampers to change the damper setting to provide parallel operation, and manual means for resetting the dampers to provide series operation and for simultaneously re-applying said forces and said resisting control means.

1,683,731. METHOD OF TREATING SULPHUR. JAMES W. SCHWAB, Gulf, Tex., assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Dec. 27, 1926. Serial No. 157,423. 10 Claims. (Cl. 23—229.)

1. The method of improving the color of abnormally colored sulphur which comprises treating the sulphur in a molten condition with finely divided activated carbon, and separating the molten sulphur from the activated carbon, and thereby obtaining sulphur of a color substantially approximating the characteristic normal yellow color.

1,683,732. SNOW AND STREET CLEANING SHOVEL. CHARLES H. SELIN, Brooklyn, N. Y. Filed Nov. 26, 1927. Serial No. 235,936. 7 Claims. (Cl. 37—130.)

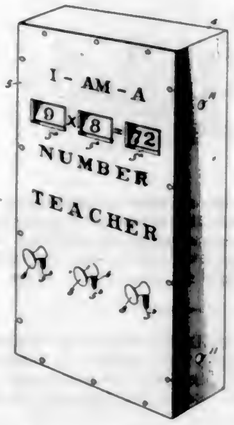


2. A shovel including a scoop portion having a back, the back being cut out at the middle, a pusher plate forming part of the rear wall of the scoop portion, a handle extending upward and rearward from the shovel, and a handle for said pusher.

1,683,733. EDUCATIONAL DEVICE. FRANK JUDSON SEWALL, Columbiana, Ohio. Filed Mar. 1, 1928. Serial No. 258,420. 3 Claims. (Cl. 35—2.)

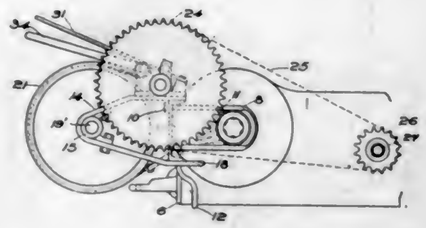
1. A teaching device comprising a container having a side formed with window-openings and bearing indicia including mathematical symbols between said openings; idling rollers in opposite ends of the container; an endless travelling-member supported on said rollers and embodying a plurality of slats hinged together and bearing indicia visible through said openings as they are moved opposite thereto; and slides movably disposed between said openings and said travelling-member, having openings near their upper ends

registerable with the aforesaid openings in the container side when in raised position and flanges at their lower ends providing pawl-like portions engageable with parts of the



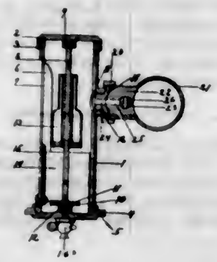
traveling member during sliding movement in one direction for advancing said member a predetermined extent over said rollers.

1,683,734. AUTOMOTIVE HOISTING ENGINE. CHARLES H. SHEARLEY, Franklin, Pa. Filed Mar. 16, 1923, Serial No. 625,439. Renewed Nov. 4, 1925. 11 Claims. (Cl. 254—166.)



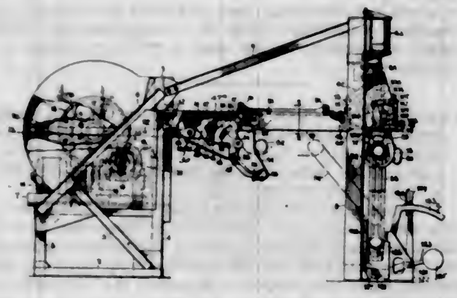
1. In an automotive hoisting engine which includes a hoisting drum, driving gearing for said drum arranged to be rendered operative or inoperative at will, also a brake arranged to be rendered operative when said driving gear is inoperative, a transporting means for said drum consisting of an automotive organization having a main frame which includes axle housings and a power takeoff for the purpose of operating extraneous machinery; the combination with the foregoing of a mounting structure for said drum, gearing and brake comprising in combination, a carrying member for the bearing supports of said hoisting drum consisting of a unitary element positioned to the rear of said frame, disposed in parallel relation to said axle housings and supported vertically by contact with a portion of said frame and having engagement with vertically-disposed faces thereof whereby a movement of said element transversely to said frame, also a vertical tilting movement of said element are prevented, U-bolts passing around the respective axle housings and having threaded ends passing through the adjacent end of said carrying member, nuts cooperating with said threaded ends and bearing upon the rear faces of said member whereby the same is secured in said contact and engagement with said frame, means preventing the flexure of said carrying member by the stress exerted thereon by said nuts, drum supports carried by said carrying member, and bearings for the respective shafts of said drum and said gearing carried by said drum supports.

1,683,735. HYDROMETER CHAMBER. GEORGE A. SMITH, Baltimore, Md. Filed July 2, 1923. Serial No. 649,090. 3 Claims. (Cl. 265—46.)



1. In a testing implement, the combination of a chamber comprising a removable cover and bottom, a hydrometer movable within the chamber, means for guiding the hydrometer in the chamber comprising a centrally disposed guide rod detachably secured to said cover, a shelf or support at the lower end of said guide rod, and means on the removable bottom for holding the guide rod at its lower end.

1,683,736. AIR-BAG STRIPPER. ROBERT W. SNYDER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 28, 1925. Serial No. 33,454. 40 Claims. (Cl. 18—2.)

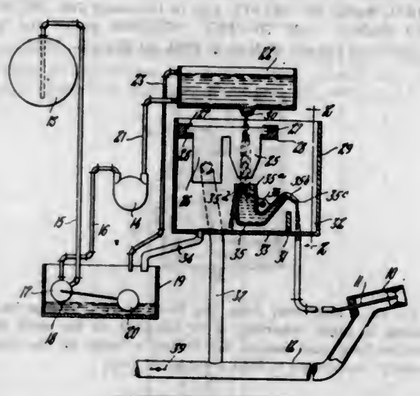


1. A machine operable in cycles comprising supporting means for a tire casing having a flexible core therein and a mechanism actuated by the machine during each cycle of operation to engage and to remove bodily the core from the tire casing.

1,683,737. AIR-GOVERNED DESTINATION CONTROL FOR LIQUIDS. CECIL W. STANCLIFFE, Stamford, Conn., assignor to Valveless Oil Burner Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 26, 1925. Serial No. 52,712. 7 Claims. (Cl. 137—78.)

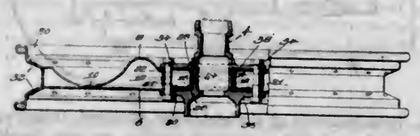
1. The combination with liquid conducting means providing separated paths and a partition between said

paths, of a container for liquid at a higher elevation than said partition and having an outlet, a switch device intermediate said outlet and said partition and being mov-



able to guide liquid from the outlet to either of said paths, and means for applying the force of air pressure to said switch device for shifting it from one position to another.

1,683,738. DISK WHEEL AND METHOD OF MAKING THE SAME. ARTHUR M. STANLEY, Lynn, Mass., assignor to Stanley Steel Welded Wheel Corporation, Boston, Mass., a Corporation of Delaware. Filed Oct. 3, 1925. Serial No. 60,266. 7 Claims. (Cl. 301—63.)



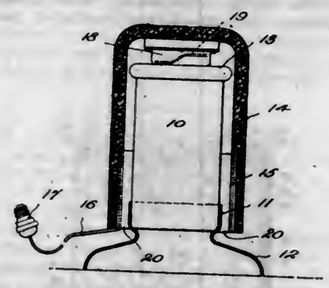
1. An automobile wheel comprising two disks secured together between the periphery and the center, an annular bracing member secured to one of the disks to maintain the disks in spaced relationship at the center, and securing means at the center of the disks.

1,683,739. DIRECTIVE ANTENNA ARRAY. JOHN STONE STONE, San Diego, Calif., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 2, 1921. Serial No. 512,271. 31 Claims. (Cl. 250—11.)



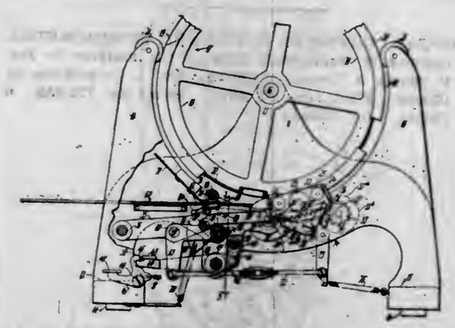
3. In radio signaling, a plurality of primary vertical oscillators each constituting an antenna, said oscillators being arranged vertically above one another, and means to excite said oscillators in determinate amplitude and phase relation with one another.

1,683,740. ELECTRICAL HEATER. WALTER K. TAVENDER, Haworth, N. J., assignor to Idale Hadley. Filed Jan. 18, 1927. Serial No. 161,735. 3 Claims. (Cl. 219—43.)



1. Means for safely heating a liquid comprising a container for the liquid, a cover thereon, a heater having a casing fitting loosely over said container and having electrical heating coils, and a thermostatic governor within said casing in circuit with said coils adapted to rest upon the cover of the container to support the heater.

1,683,741. STENCILING MACHINE. LINDEN A. THATCHER, Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 5, 1927. Serial No. 172,975. 48 Claims. (Cl. 101—118.)



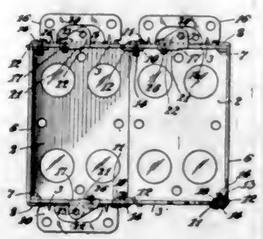
1. In a stenciling machine, the combination with a rotatable stencil-carrying cylinder having a platen-roller always in rolling engagement therewith to establish a stencil-feeding position for a work-sheet, of sheet-feeding mechanism normally disconnected from the cylinder but connectible with the cylinder, during the initial rotation thereof, to rotate in a stenciling direction and feed the work-sheet to the stencil-feeding position of the cylinder.

25. In a stenciling machine including a stenciling cylinder having a free rotary movement between a normal stop-position and a stenciling stop-position, the combination of supplemental feeding mechanism operative to advance a work-sheet to the stenciling position, and mechanism carried by the sheet-feeding mechanism and operatively controlled by the feeding of the work-sheet to vibrate a stencil-preventing stop and release the cylinder for a full stenciling rotation.

1,683,742. OUTLET-BOX CONSTRUCTION. GEORGE C. THOMAS, Jr., Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 4, 1924. Serial No. 704,101. 7 Claims. (Cl. 247—16.)

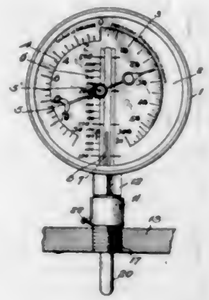
1. In outlet box construction, in combination, a plurality of similar body sections having side wall portions pro-

vided adjacent each side edge with similar claw-receiving perforations, similar end plates having claws at one side edge and having claw-receiving perforations at the opposite side edge, said claws fitting the adjacent perforations in a body section, similar clips having claws at each end fitting selectively the adjacent perforations of two abut-



ting body section ends or the adjacent perforations of one body section and an abutting end plate, whereby two body sections or a body section and an end plate may be secured together, and means preventing the claws of an end plate from leaving the apertures in the body section when the end plate is secured to a body section by means of a clip.

1,683,743. COMBINED GAUGE AND THERMOMETER. ORVILLE W. THOMPSON, Chicago, Ill., assignor to Jas. P. Marsh & Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1924. Serial No. 722,555. 6 Claims. (Cl. 73—52.)



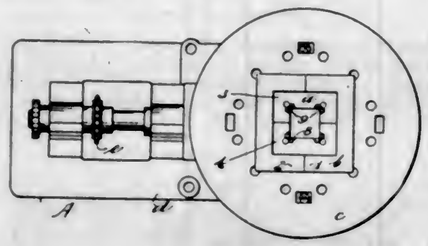
1. In a device of the class described, the combination of a temperature thermometer and gauge combined in a single instrument case having a threaded extended fitting enclosing the thermometer bulb, and an attachment for securing both to a boiler through a single threaded opening, the gauge being in communication through the attachment with the interior of the boiler, said attachment being constructed to permit the insertion of the encased bulb of the temperature thermometer in direct contact with the contents of the boiler simultaneously with the operative attachment of the threaded gauge fitting thereto without disassociation of the thermometer from the gauge construction, and means for preventing the escape of the contents of the boiler upon the removal of the gauge from the attachment.

1,683,744. UNIVERSAL LOCK. FRIEDRICH CARL VOM BAUCK, Dusseldorf, Germany, assignor, by mesne assignments, to the Firm Stanley Works Gesellschaft mit beschränkter Haftung, Velbert, Germany. Filed Sept. 1, 1921, Serial No. 497,811, and in Germany Jan. 28, 1910. 10 Claims. (Cl. 70—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



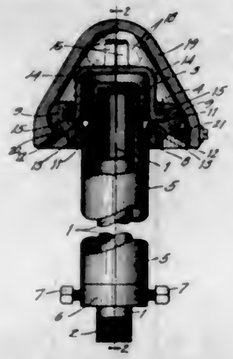
10. In a universal lock, the combination with a casing having a plate whereby it is adapted to be used as a mortise lock, and means for fitting a ledge to the casing thereby converting it into a rabbeted lock.

1,683,745. OIL-WELL APPARATUS. GEORGE D. WATSON, Torrance, Calif. Filed Jan. 11, 1926. Serial No. 80,662. 2 Claims. (Cl. 308—3.)



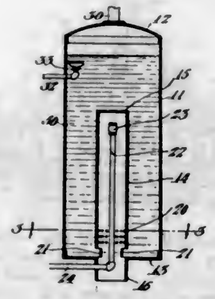
1. Improvements of the character disclosed, including a bushing formed with a squared opening, an inset received within said squared opening and at a corner portion thereof, and means for maintaining said inset to said bushing, comprising a lug member carried by the inset and bent over one end of the bushing.

1,683,746. PIPE SEAL. ARTHUR SHELDON WELDY, Canton, Ohio. Filed Sept. 3, 1926. Serial No. 133,454. 15 Claims. (Cl. 220—86.)



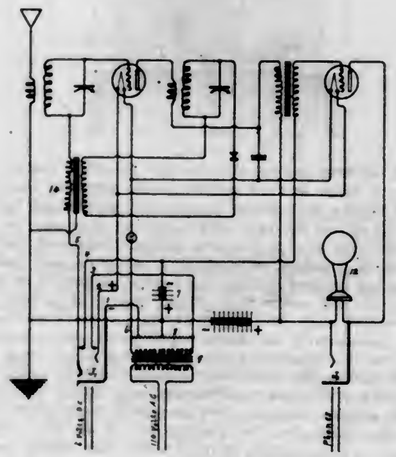
1. A device of the character described comprising a flanged pipe, a second pipe within and independent of said flanged pipe, a sealing cap on said inner pipe, a covering means coacting with said flanged pipe for preventing access to said cap, and means for locking said covering means in engagement with the flanged pipe.

1,683,747. EXHAUST-GAS WATER HEATER. LAWRENCE N. WHEELER, Monrovia, Calif. Filed Aug. 30, 1921. Serial No. 496,823. 5 Claims. (Cl. 261—121.)



1. In an engine having a water tank; a casing, closed at its upper end, extending upwardly into said tank adapted to be entirely surrounded by the water in said tank and forming a gas chamber; said casing having water outlet openings therein near the bottom of the tank and having also gas outlet perforations above said water outlet openings; a water inlet connection at the lower end of said casing, in free communication with a water jacket on said engine; an exhaust gas inlet pipe extending from said engine to said gas chamber; and a check valve in said pipe; the upper end of said tank having a gas outlet and a water outlet at different levels.

1,683,748. RADIO EQUIPMENT. ALFRED ERNEST WHITE, Pasadena, Calif. Filed Jan. 28, 1926. Serial No. 84,520. 1 Claim. (Cl. 250—27.)

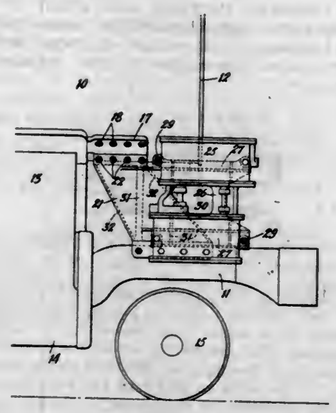


In a radio receiving circuit comprising one or more vacuum tubes having filaments adapted to be energized from either an alternating or a direct current source and grid electrodes, means for applying alternating current to said filaments comprising a transformer the secondary of which is shunted by a potentiometer, means for connecting said grid electrodes to a point on said potentiometer, a multi-contact jack connected between the filaments and the transformer, a plug adapted to be inserted in said jack connected to a direct current source for opening the circuit between the filaments and the transformer and for connecting the grid electrodes to the negative pole of the direct current source when the plug is inserted in the jack.

1,683,749. ALLOY. SEWELL E. WINSLOW, Bridgeport, Conn., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 4, 1924. Serial No. 696,825. 7 Claims. (Cl. 75—1.)

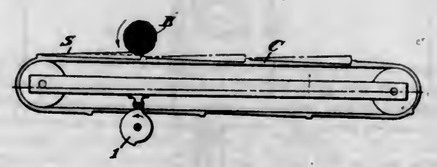
1. An alloy or composition of metals, composed substantially of nickel, copper and tin, the nickel and copper in approximately the atomic proportions of ten to four and tin in an atomic proportion not greater than one.

1,683,750. LOCOMOTIVE. WILLIAM E. WOODARD, Forest Hills, N. Y. Filed Mar. 14, 1927. Serial No. 175,387. 9 Claims. (Cl. 105—44.)



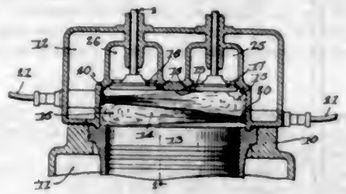
1. In a locomotive having a frame and a smokebox, a combined auxiliary appliance support and bracing member between the smokebox and front extension of the frame.

1,683,751. METHOD OF MAKING IMITATION HAND-RIFT SHINGLES. CHARLES M. ABBOTT, Watertown, Mass., assignor to Samuel Cabot, Inc., a Corporation of Massachusetts. Filed Oct. 11, 1926. Serial No. 140,775. 7 Claims. (Cl. 144—309.)



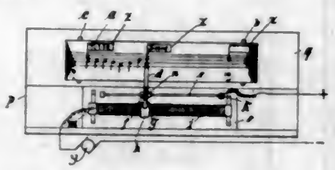
1. The method of making an imitation hand rift shingle consisting in quarter-sawing the shingle blank from the wood of a conifer and in removing a portion of the softer layers of the wood while leaving exposed the harder intermediate layers in relief.

1,683,752. OIL ENGINE. OTTO A. BANNER, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 16, 1925. Serial No. 9,711. 7 Claims. (Cl. 123—22.)



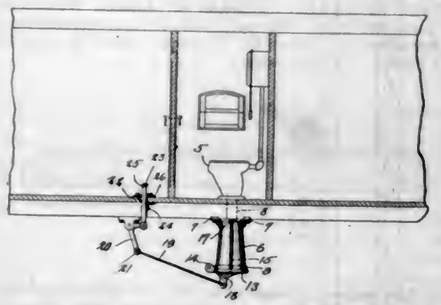
1. In an oil engine an engine cylinder having an elongated transversely extending compression chamber therein shaped to provide relatively wide air pockets at the opposite ends thereof, and a plurality of fuel injection nozzles at the opposite end of said chamber, each nozzle being so disposed as to project a fuel spray thru said chamber into one of said pockets at the far end thereof.

1,683,753. APPARATUS FOR OBTAINING SYNCHRONISM BETWEEN PICTURE AND MUSIC IN CINEMATOGRAPHIC PERFORMANCES. ADOLF BEENEKEN, Berlin, Germany. Filed June 3, 1924, Serial No. 717,637, and in Germany Mar. 8, 1923. 6 Claims. (Cl. 88—16.2.)



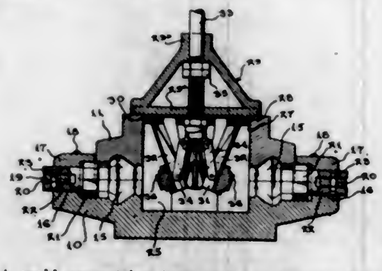
1. In apparatus for obtaining synchronism between the pictures and music in animated picture performances, the combination of a music tape travelling in synchronism with a picture film and having musical notation running longitudinally of the tape, an indicator finger mounted in proximity to the notes on said tape and for adjustment in the reading direction of said notes, a driving motor for said picture film, and means for controlling the speed of said motor controlled by the adjustment of said finger.

1,683,754. AUXILIARY CONTAINER FOR TOILETS. WILLIAM M. BELL, Portsmouth, Ohio. Filed Jan. 30, 1928. Serial No. 250,585. 1 Claim. (Cl. 4—8.)



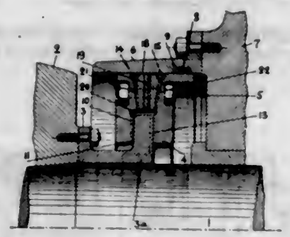
In a device of the character described a body portion, brackets for securing the body portion to a supporting structure under the discharge pipe of a toilet, said brackets adapted to support the upper end of the body portion in spaced relation with the supporting structure, a closure for closing one end of the body portion, and means for moving the closure to its open position.

1,683,755. GLASS MOLD. FRANK M. BIGELOW, Jeannette, Pa. Filed July 25, 1927. Serial No. 208,298. 8 Claims. (Cl. 49—35.)



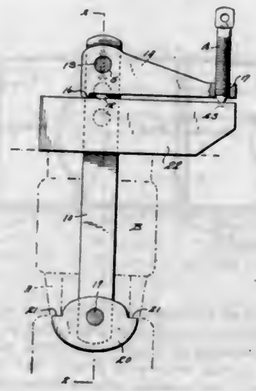
3. A mold comprising base and cap sections jointly in which a plurality of glass reciving cavities are formed of the shape of articles to be cast, the mold having a glass receptacle in communication with said cavities and opening through the cap section, a filler plunger insertable through the cap section for ejecting the glas into said cavities, and a finishing plunger for insertion into the receptacle after the withdrawal of the filler plunger, the former having a plurality of feet corresponding in number to the number of cavities and said feet being movable toward and away from the openings of communication between the cavities and the receptacle.

1,683,756. STUFFING BOX FOR PROPELLER SHAFTS. HANS HENRIK BLACHE, Hellerup, near Copenhagen, Denmark. Filed May 18, 1926, Serial No. 109,938, and in Denmark June 10, 1925. 3 Claims. (Cl. 286—7.)



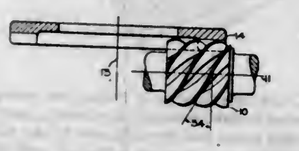
1. A stuffing box constructed for propeller shafts including a flange in fixed relation to the propeller shaft, a casing having an annular groove into which said flange rotatably fits, a hollow member adapted to be secured to the stern of a ship, said casing fitting within said hollow member as a piston, interengaging means on said casing and hollow member limiting the relative movement of said casing to said member to slight movement axially of the propeller shaft so that said casing may move with said flange responsively to length variation of said propeller shaft due to temperature changes, spring piston rings inlaid in the circumference of the casing near its ends, for maintaining a sealed joint betwen said casing and said hollow member, said spring piston rings being lubricated from the bottom of the annular groove of the casing, through interconnecting drilled holes, said casing being pressed continuously into sealing contact with the rear face of said flange under fluid pressure of the water in which the stern of the ship is immersed, and said casing and the rear face of said flange being formed peripherally of said casing with annular coacting, plane, continuous sealing surfaces, constituting a water-tight joint.

1,683,757. VALVE-SEAT PULLER. WALTER BRAUER, Seminole, Okla. Filed Nov. 1, 1927. Serial No. 230,363. 9 Claims. (Cl. 29—88.2.)



1. A valve seat puller comprising a cross bar adapted to be disposed across the mouth of a valve chamber, links disposed on each side of the cross bar, a lever to which the upper ends of the links are attached, a valve seat engaging member pivotally mounted upon the lower ends of the links and carried thereby, and means disposed at the end of the lever remote from the links engageable with one end of the cross bar to force the opposite end of the lever downward in fulcruming engagement with the cross bar to thereby lift upward on the links.

1,683,758. GEAR. ALLAN H. CANDEE and ERNEST WILDHABER, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed July 1, 1925. Serial No. 40,791. 14 Claims. (Cl. 74—41.)

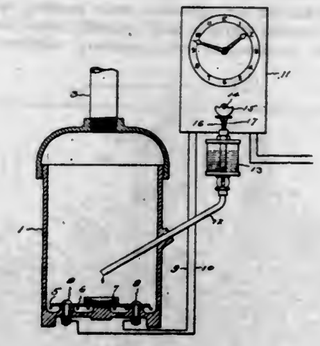


1. A pair of gears consisting of a cylindrical worm and a crown gear, provided with curved teeth which extend to the outer periphery of said gear, said gear having teeth of opposite hand as compared to the thread of the worm, the spiral angle of said gear teeth being less than the spiral angle of the worm thread.

1,683,759. FABRIC AND METHOD OF TREATING SAME. CLARENCE M. CARSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 20, 1926. Serial No. 149,796. 1 Claim. (Cl. 91—68.)

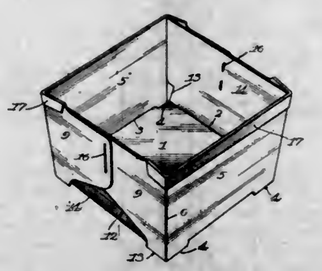
A method of treating fabrics for breather bags which comprises applying to the fabric a gas-tight coating of proteinous material containing a softening agent, partially drying the coating, stretching the fabric upon a frame, applying a tanning solution thereto and completing the process of drying.

1,683,760. ADVERTISING APPARATUS. GEORGE H. CONNERS, Hartford, Conn. Filed Dec. 13, 1927. Serial No. 239,674. 5 Claims. (Cl. 40—126.)



1. An apparatus for use in connection with advertising signs which comprises a chamber having an outlet adapted to open through the sign, electrically heated means in said chamber, an oil receptacle with its discharge leading into the chamber above said electrically heated means, and a time switch, said time switch having means which coincidently controls an electric circuit that includes the electrically heated means within the chamber and the discharge from the oil receptacle.

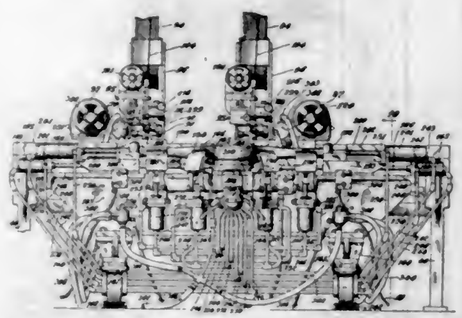
1,683,761. BERRY BASKET OR BOX. EDWARD CRAIG, St. Joseph, Mich., assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich., a Corporation of Delaware. Filed Jan. 4, 1926. Serial No. 79,104. 4 Claims. (Cl. 229—32.)



1. A receptacle for fruit or other commodities, comprising the one-piece unbroken bottom wall and the side walls of sheet material, formed from a single foldable blank providing when folded a foot for each corner of the single thickness bottom of the receptacle, each foot formed half by material cut away from the bottom and half by material cut away from a side wall, each foot comprising an edge at one side of the receptacle and an edge at the adjacent side of the receptacle, the two edges being joined to each other at an angle, whereby each foot extends a distance at each side of each corner of the receptacle.

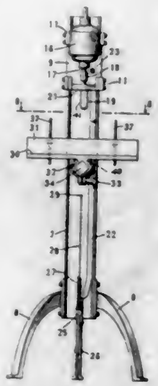
1,683,762. WORK HOLDER FOR WELDING. WALTER H. D'ARDENNE, Lawndale, J. OLIN LANDIS, Fox Chase, and LEWIS H. CHRISTENSEN, Philadelphia, Pa., assignors to Heintz Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 12, 1925. Serial No. 55,934. 11 Claims. (Cl. 219—17.)

2. In a jig for an unwelded axle housing having a bowed-out central portion and opposite arms and comprising two longitudinal complementary sections, and a



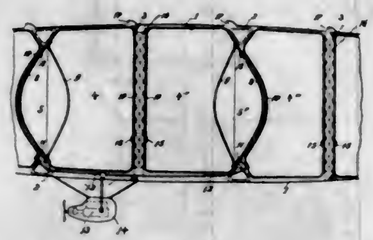
bearing tube in each housing arm, plungers engageable within the inner and outer ends of said bearing tubes, when said housing is on the jig, whereby said tubes are placed and held in accurate alignment.

1,683,763. DRILL OR MORTISING MACHINE. RAYMOND E. DE WALT, Leola, Pa. Filed Sept. 17, 1925. Serial No. 56,823. 10 Claims. (Cl. 144—78.)



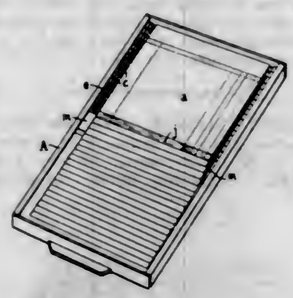
1. In a machine of the character disclosed, a frame comprising an upright I-beam structure, a carriage vertically slidable over the front flanges of said I-beam and having guide rollers riding over the rearward flanges of the I-beam, a drill head on said carriage, a stud projecting forwardly from the web of the I-beam beneath said drill head, a work table variously adjustable on said supporting stud and connections for operating the drill head carriage.

1,683,764. GAS-INFLATED AIRSHIP. WILHELM E. DÖRR, Uberlingen, Germany, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed July 1, 1927, Serial No. 202,852, and in Germany July 15, 1926. 3 Claims. (Cl. 244—3.)



2. A gas cell of substantially cylindrical shape, adapted to be inserted into the hull of a rigid airship, one end wall of said cell composed of a relatively great amount of normally slack material and being double, the space between said double end walls when inflated forming a gas space of lentil-like shape.

1,683,765. HORIZONTAL-CARD SYSTEM. VÁCLAV DUSPIVA, Prague, Czechoslovakia. Filed Aug. 3, 1925, Serial No. 47,924, and in Austria and Germany Aug. 3, 1925. 6 Claims. (Cl. 129—16.)

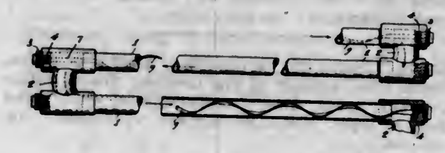


1. In a card index system, a frame, two series of interengaging spacer-blocks removably mounted in said frame, said blocks having bores and two adjacent blocks having corresponding convex and concave adjacent end faces, and a series of card-supporting members each rotatably mounted in the bores of two said spacer blocks, substantially as described.

2. In a card index system, a frame, a series of card-supporting members removably mounted in said frame, a series of cards detachably secured to said card-supporting members, each card-supporting member being provided with two forks for clamping a card, said forks comprising two prongs and a stem, and said cards having cut-out lateral notches to enable the cards to be slipped between the prongs and held by one of them on each fork against removal from the rod, substantially as described.

4. In a card index system; a frame; a series of card-supporting members removably mounted in said frame; a series of cards secured to said card-supporting members; and a series of protectors for said cards, each protector having two parallel members and sockets formed at the ends of one of the parallel members by inwardly and downwardly turned flaps, each card having at its corresponding ends lateral tongues engaging said sockets, substantially as described.

1,683,766. APPARATUS FOR CRACKING OIL. GUSTAV EGLOFF, Chicago, Ill., and WILLIAM R. HOWARD, Washington, D. C., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Mar. 23, 1921, Serial No. 454,880. Renewed July 3, 1926. 2 Claims. (Cl. 196—110.)

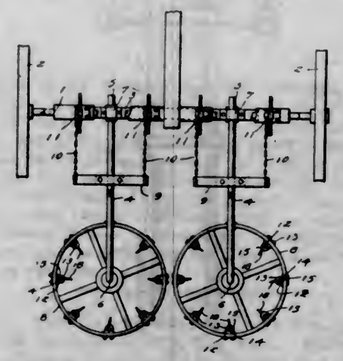


2. In an apparatus for cracking oil, the combination with a tubular conduit, through which the oil is adapted to be passed and wherein it is subjected to heat, of a thrust bearing adjacent the discharge end of the conduit, and an agitator member extending longitudinally of said conduit, having one end thereof engaging said thrust bearing and so constructed that oil, passing through the conduit, will cause a rotary movement of said agitator member and prevent deposition of carbon in said conduit.

1,683,767. PROCESS OF TREATING OILS. GUSTAV EGLOFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Mar. 24, 1924, Serial No. 701,585. Renewed Feb. 20, 1928. 2 Claims. (Cl. 233—14.)

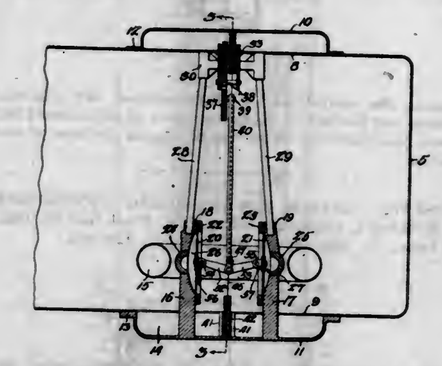
1. A process for treating residual hydrocarbon oil containing coke-like particles formed during a cracking reaction in suspension, to separate from the oil such coke-like particles as will not normally precipitate from the oil when maintained in a quiescent state, consisting in subjecting residual hydrocarbon oil withdrawn from a concurrent cracking operation to centrifugal action, causing the suspension to be broken and the coke-forming particles to be precipitated, in reducing the viscosity of the residual hydrocarbon oil before treatment by mixing with the same a hydrocarbon of lower boiling point, and in maintaining the temperature of the residual hydrocarbon oil undergoing treatment below 200° F.

1,683,768. COTTON CHOPPER. JOHN H. ETHERIDGE, Taft, Tex., assignor of one-half to Leland A. Cage, Taft, Tex. Filed Sept. 29, 1927. Serial No. 222,877. 4 Claims. (Cl. 97—17.)



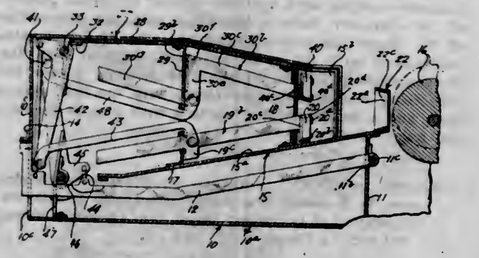
2. A cotton chopper attachment comprising a spacing bar adapted to be connected with a movable frame, beams pivoted upon the bar for rocking movement longitudinally thereof, said beams being spaced from each other, wheels journaled upon the beams and disposed in substantially horizontal planes below the spacing bar, teeth carried by the wheels and means mounted upon the frame for rocking beams.

1,683,769. OPERATING MEANS FOR LIQUID-LEVEL INDICATORS. THOMAS M. EYNON, Philadelphia, Pa. Filed Mar. 19, 1921. Serial No. 453,840. 10 Claims. (Cl. 73—82.)



1. In an indicating device for gasoline tanks, a tank, two pairs of guide wheels, one of each pair mounted in the bottom and the other in the top of the tank, supports for the wheels, separate belts about the wheels of the two pairs, a float surrounding the belts, connection from the float to each of the belts, gearing connected with the upper wheel of each pair and depth-indicating mechanism operating from said gearing.

1,683,770. TYPEWRITER CONSTRUCTION. FRITZ RUDOLPH FRIEDRICH, New York, N. Y. Filed Apr. 24, 1924. Serial No. 708,609. 7 Claims. (Cl. 197—25.)

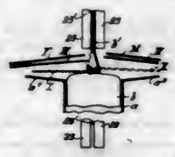


1. In typewriter construction, in combination, a plurality of type bars, means for supporting movably said type bars in two vertically displaced banks and adapted to permit movement of each type bar to a common printing point, the path of movement of the type bars of the upper bank being inclined to the path of movement of the type bars of the lower bank, and a type head at the end of each type bar, each type head on a type bar of one bank having a tapered inclined portion facing toward the type head of a type bar in the other bank, thereby to facilitate by-passing of one type head by the other.

1,683,771. CLOSING BAG. PAUL GANGLER, Esslingen, Germany, assignor to the Firm: Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Stuttgart-Cannstatt, Germany. Filed Oct. 6, 1923, Serial No. 666,986, and in Germany Oct. 12, 1922. 1 Claim. (Cl. 93—6.)

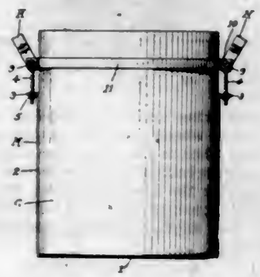
The method of closing packages which consist of an inner bag, contents and a carton, comprising flattening the empty end of the inner bag which projects from the carton

by spreading said end, folding it zigzag fashion by creasing it from opposite sides at superposed levels, beginning from the level of said contents and continuing upwardly,



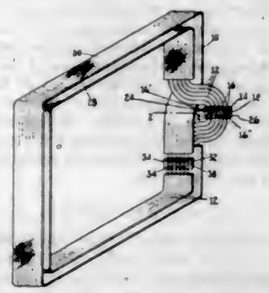
forcing the central portion of the creased end into said carton and folding the lateral portions of said creased end down upon said central portion by closing the flaps of said carton.

1,683,772. DEVICE FOR HANDLING CONTAINERS. WILLIAM L. GIBSON, Camden, N. J. Filed June 30, 1927. Serial No. 202,639. 2 Claims. (Cl. 220—85.)



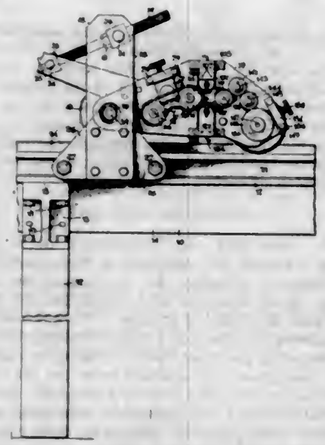
1. A device for handling containers comprising a member adapted to straddle a container from below, clamp members coacting with opposite sides of the upper portion of the container, bolts co-operating with the extremities of the clamp members to bring the same into requisite engagement with the container, bolts engaged with the free extremities of the first named member, means for connecting said second named bolts with the first named bolts, and a handle member engaged with each of the second named bolts.

1,683,773. ANTENNA. ALFRED N. GOLDSMITH, Mount Vernon, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 11, 1923. Serial No. 611,942. 4 Claims. (Cl. 250—33.)



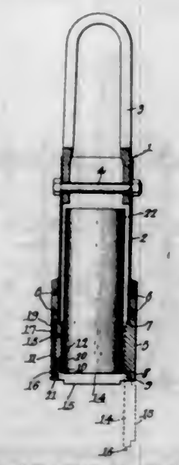
4. In a device of the class described, a strip of flexible material, wires arranged in substantially parallel relation along the strip, a molding arranged around one of the walls of a room for supporting the strip within the room, a terminal block mounted on an adjacent wall of the room and comprising contacts with which the ends of the wires may be connected, connections between the contacts of the terminal block arranged to join the wires into a continuous coil, an input wire leading to one of the contacts of the terminal block, and an output wire leading from another of such contacts.

1,683,774. PRINTING MACHINE. JORGEN I. HAASE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 3, 1926. Serial No. 126,819. 8 Claims. (Cl. 101—35.)



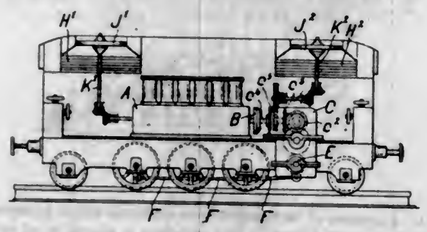
1. A printing machine comprising a support, a carriage movably mounted thereon, a frame pivotally connected to the carriage, a complete printing unit carried by the frame, and means for supporting the unit in adjusted operative positions.

1,683,775. TOOL. RALPH IRWIN HENDERSON, Charleston, W. Va. Filed Jan. 3, 1928. Serial No. 244,235. 2 Claims. (Cl. 86—21.)



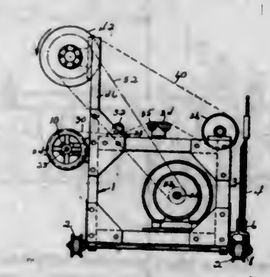
1. In a device of the class described, a receptacle, a pivoted retainer extended across the receptacle, a latch mounted movably on the receptacle, interengaging parts on the latch and on the retainer, the retainer being upwardly movable to disengage said interengaging parts when the retainer rests on an object, and spring means for moving the latch to hold said interengaging parts clear of each other, after they have been disengaged as aforesaid.

1,683,776. POWER-DRIVEN VEHICLE. HEINRICH HEERMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed July 13, 1927. Serial No. 205,522, and in Germany July 14, 1926. 6 Claims. (Cl. 105—62.)



1. In a power-driven wheeled vehicle, an artificially cooled driving engine, a disengageable coupling between said engine and the driven axles of the vehicle, means for re-cooling the cooling agent used, said means comprising a plurality of fans, part of which is adapted to be driven from said engine and part to be driven from said axles of the vehicle.

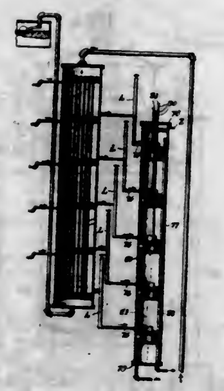
1,683,777. FABRIC HANDLING. DANIEL E. HENNESSY, Akron, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 22, 1925. Serial No. 25,166. 1 Claim. Cl. 242—55.)



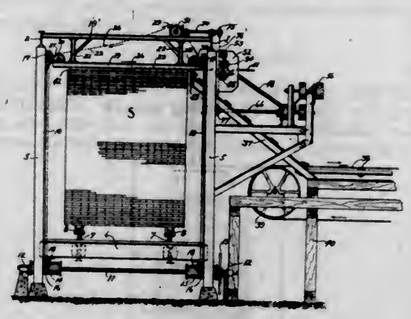
A device of the character described comprising a liner supply drum, a liner receiving drum, means for driving the latter and means, including tension applying means associated with the supply drum and a freely rotatable roll positioned in the path of travel of the liner, to form the span of the liner between said roll and the receiving drum into a substantially uniformly tensioned taut fabric receiving table having sufficient rigidity to support the fabric received thereon in the absence of other supporting means, the table so formed having a freely accessible edge defined by said roll.

1,683,778. DISTILLATE DISTRIBUTOR FOR HYDROCARBON DISTILLATION SYSTEMS. FRANCIS M. HESS, Chicago, Ill. Original application filed Apr. 29, 1922, Serial No. 557,421. Divided and this application filed Nov. 22, 1926. Serial No. 149,915. 8 Claims. (Cl. 137—78.)

1. A distributor for routing fractional distillates, comprising a circularly grouped series of vertical discharge pipes each provided with a plurality of vertically spaced lateral branches, corresponding branches of the several pipes being located in the same horizontal planes, funnels rotatably mounted above and coaxially with the several horizontal groups of branches, respectively, and each having a discharge nozzle adapted to be brought into register, by a turning movement of said funnel, with any branch of its associated group, a corresponding series of delivery pipes for the material to be distributed having their discharge ends overhanging said funnels, and independent means for rotating the respective funnels.



1,683,779. UNLOADING MACHINE. FREDERICK W. HORSTKOTTE, Portland, Oreg. Filed Feb. 10, 1926. Serial No. 87,262. 6 Claims. (Cl. 214—8.5.)

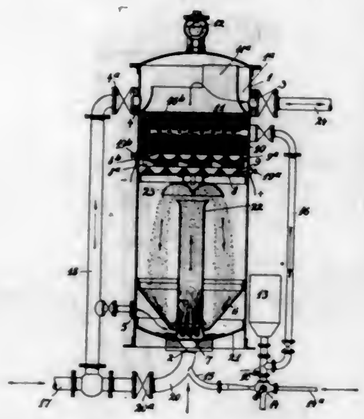


2. In an unstacker the combination with a vertically movable platform for supporting a stack and discharging means adapted to bodily move a top layer of the stack and spacing sticks above said layer, means for preventing movement of spacing sticks below the top layer, and means for removing the spacing sticks above said layer.

1,683,780. METHOD OF AND APPARATUS FOR PURIFYING WATER. CHRISTIAN HÜLSMEYER, Dusseldorf, Germany. Filed Sept. 19, 1923, Serial No. 663,637, and in Germany July 31, 1922. 5 Claims. (Cl. 210—9.)

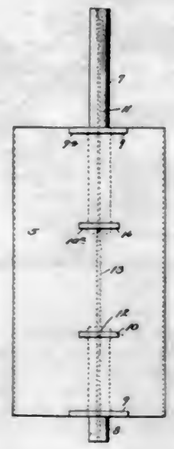
1. A device of the class described comprising a vertically extending chamber, a deoxidizing material in the lower part of said chamber, means for introducing water into the lower part of said chamber in such a way as to

cause the deoxidizing material to circulate with the water in the lower part of said chamber, a filter in said chamber above the zone of circulation, and an outlet for the water



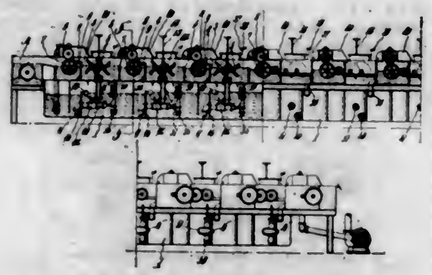
above said filter, whereby the deoxidizing material accumulating in said filter will fall by gravity into the zone of circulation.

1,683,781. PLATE-STEEL WICKET GATE FOR TURBINES. GEORGE A. JESSOP, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a Corporation. Filed Sept. 25, 1926. Serial No. 137,796. 11 Claims. (Cl. 253—122.)



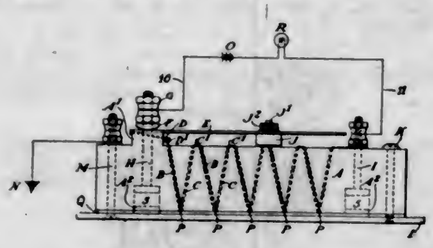
1. A plate steel wicket gate comprising opposite properly shaped guiding members, pivot means spaced between said members, and means extending outwardly from the pivot means and through the said guiding members and terminating coincident with the outer surfaces of the latter for holding the pivot means in place.

1,683,782. METHOD AND APPARATUS FOR WASHING PULP. CHARLES A. JOHNSON, La Tuque, Quebec, Canada, assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Apr. 10, 1924. Serial No. 705,546. 16 Claims. (Cl. 141—12.)



1. A process of washing fibrous material which comprises simultaneously agitating and washing a plurality of separated batches of said material in a plurality of separate baths, maintaining a supply pool for each bath, straining out the liquor from the fibrous material in each bath and passing the strained material to a succeeding bath, and passing liquor so strained out from such material to the pool for a preceding bath in the direction of travel of the fibrous material.

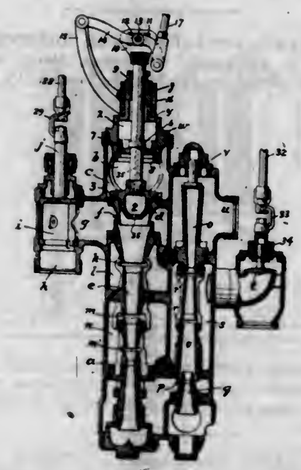
1,683,783. COMBINED LIGHTNING ARRESTER AND RESISTANCE UNIT. CHARLES J. KELLOWAY, Wilmington, N. C. Filed Jan. 22, 1923. Serial No. 614,201. 6 Claims. (Cl. 175—30.)



1. In combination, a block provided with two terminals for connection with an electrical circuit, a conductor of resistance material supported by said block and having its ends connected with said terminals, adjustable means for shunting out any desired portion of said conductor, a member of relatively high resistance in contact with a plurality of points along said conductor, and means for connecting said member with ground.

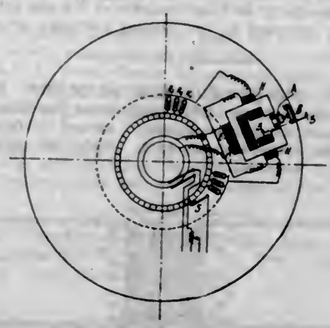
1,683,784. INJECTOR. STRICKLAND L. KNEASS and IRENEE P. PEDRICK, Philadelphia, Pa., assignors to William Sellers & Company, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 5, 1925. Serial No. 35,151. 6 Claims. (Cl. 103—265.)

1. In an injector, in combination, a primary set of tubes adapted for low pressure steam, a set of forcing tubes adapted for high pressure steam, a valve controlling the admission of feed water to the primary set of tubes, a low pressure steam chamber, a steam nozzle of large area affording a passage for steam from said steam chamber to the primary tubes, a valve adapted to seat on the upper end of said nozzle, said valve having a lower conoidal extension adapted to extend into said nozzle and adapted to proportionately regulate the area of discharge of said nozzle, a stem on said valve, a superimposed concentric



cylinder in communication with said steam chamber and with atmosphere and a piston in said cylinder in slidable engagement with said stem.

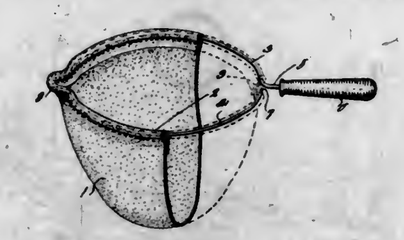
1,683,785. VOLTAGE REGULATOR. RICHARD KUMMENICH, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Aug. 18, 1925, Serial No. 51,058, and in Germany Oct. 11, 1924. 6 Claims. (Cl. 200—80.)



1. A regulator comprising a rotating disk, a relatively stationary contact element, a relatively movable contact element carried by said disk and magnetic means for controlling the movement of said movable contact member, and means for varying the effect of said magnetic means.

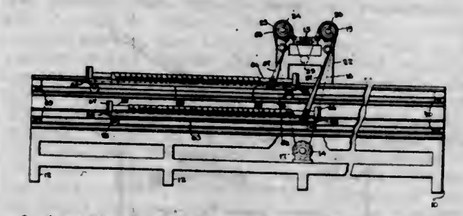
1,683,786. COFFEE-MAKING DEVICE. CHARLES T. LONG, Eureka, Calif. Filed Dec. 30, 1927. Serial No. 243,673. 1 Claim. (Cl. 53—3.)

As a new article of manufacture, a coffee making device consisting of a split ring having its ends relatively spaced, a bag provided at its upper edge with a split loop through which the ring extends, the ends of the ring extending beyond the ends of the loop, a shank connected to one end of the ring and extending radially outward from the ring, and a hump projecting radially outward from the ring diametrically opposite the split ends thereof, the hump being formed by offsetting a portion of the ring and being arranged in the loop and distorting the same to prevent



the accidental detachment of the bag from the ring, the shank and hump constituting supporting elements and the shank also constituting a lifting element.

1,683,787. MACHINE FOR UNWRAPPING TUBES. ELOY F. MAAS, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 16, 1926. Serial No. 95,044. 6 Claims. (Cl. 242—7.)



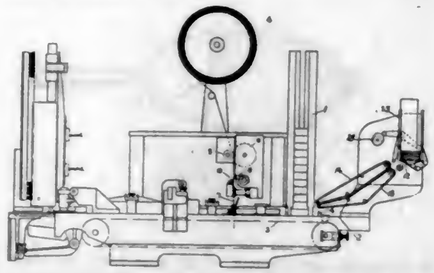
1. A machine for unwrapping tubes comprising means for movably supporting a wrapped tube and a rotatable winding reel for simultaneously and continuously moving and unwrapping the tube.

1,683,788. CONTAINER SUCH AS BARREL, DRUM, OR THE LIKE. ALFONS MAUSER, Cologne-Marienburg, Germany. Filed Oct. 24, 1924, Serial No. 745,540, and in Germany Sept. 23, 1924. 8 Claims. (Cl. 220—71.)



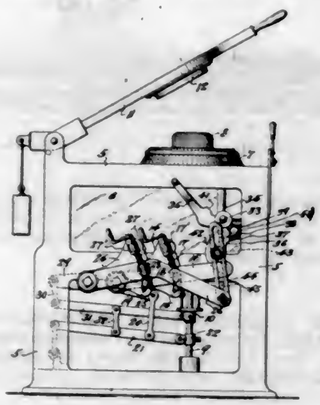
1. A sheet metal barrel, drum, or like container having between its ends, a circumferential loop formed integrally with the side walls of said container, and extending transversely of the main portion of the side wall of the container, a reinforcing ring having a portion thereof extending transversely of the side walls of the container in contacting engagement with the side walls of said loop whereby said ring is secured to the container, and said ring having another portion thereof projecting outwardly beyond the side walls of said container to form a supporting surface upon which said container is adapted to be rolled, said loop being formed from a sufficient length of the sheet metal material to constitute a spring-like structure, capable of yielding elastically to absorb the shocks or blows to which said ring is subjected.

1,683,789. WRAPPING MACHINERY. WALTER EVERETT MOLINS, Deptford, London, England. Filed Dec. 29, 1927, Serial No. 243,436, and in Great Britain Dec. 24, 1926. 4 Claims. (Cl. 93—2.)



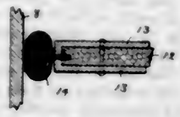
1. In a device of the class described, the combination with a magazine for articles, of a wrapping mechanism, and a movable element for conveying a card beneath said magazine, and moving the card and a superimposed article through said wrapping mechanism.

1,683,790. FUR-HAT-BLOCKING MACHINE. RUDOLPH G. MULLER, Irvington, N. J. Filed Nov. 17, 1927. Serial No. 233,825. 7 Claims. (Cl. 223—31.)



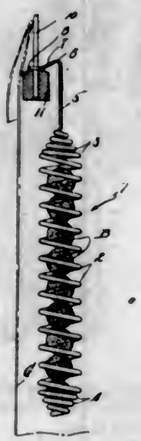
1. In a hat-blocking machine having hat-block elevating mechanism including an elevator lever and a hat-block expanding mechanism including an expanding lever, a single manipulating means for actuating both said levers, comprising a pivoted bell-crank lever, a connecting link between said bell-crank lever and elevator lever, a draw-link connected with said expanding lever, and means providing a sliding pivotal connection between said draw-link and said bell-crank lever.

1,683,791. SHOW CASE. WALTER MUNCH, Superior, Wis., assignor to Syphonix Refrigerator Company, a Corporation of Delaware. Filed Apr. 5, 1927. Serial No. 181,061. 1 Claim. (Cl. 312—140.)



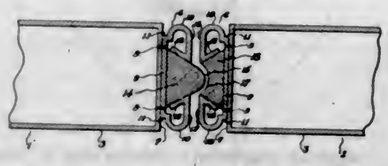
A division wall for a refrigerated show case comprising two upright spaced members attached at one side thereof to a vertical wall of the show case, insulating material intermediate of said members, the free ends of the spaced members overlapping the free end of the insulating material, and a resilient member held intermediate of the overlapped edges of the spaced members.

1,683,792. CONTAINER FOR DISINFECTANTS. ROBERT E. NAUMBURG, Winchester, Mass. Filed May 26, 1926. Serial No. 111,780. 2 Claims. (Cl. 299—24.)



2. A container for moth balls or the like consisting of an open helical coil formed from a single length of resilient wire, portions of the wire being so disposed as to constitute a permanent closure at each end of the coil for the space within the container, access to said space for the purpose of inserting the contents therein being obtainable by temporarily separating any pair of adjacent spires abnormally such deformation of the coil being automatically corrected by the natural resiliency of the wire.

1,683,793. BUMPER FOR SLIDING DOORS. JOHN OSCAR NYMAN, Canton, Ohio, assignor to The United Metal Products Company, Canton, Ohio, a Corporation of Ohio. Filed July 2, 1927. Serial No. 203,117. 4 Claims. (Cl. 16—86.)

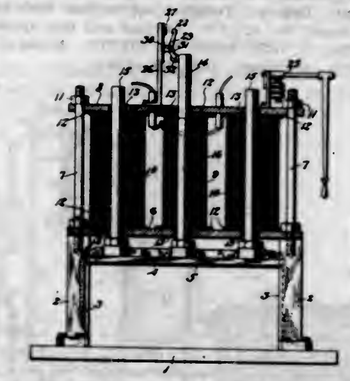


1. In combination with a pair of bi-parting doors, a channel strip on the meeting edge of each door, and a rubber bumper located in each channel strip, each channel strip having a back portion attached to the door, curved side edge portions and straight front portions, terminating in inturned angular flanges.

1,683,794. ELECTRIC HAMMER. WILLIAM CLARENCE O'BRIEN, Canton, Ohio, assignor to Central Alloy Steel Corporation, New York, N. Y., a Corporation of New York. Filed July 27, 1922. Serial No. 577,860. 1 Claim. (Cl. 172—126.)

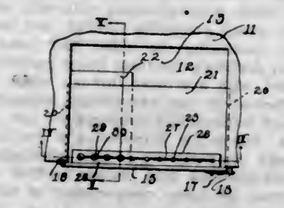
An electrically operated hammer including a reciprocating magnetic head, a solenoid for assisting in effecting

the working stroke of the head, a pair of solenoids wired in parallel for lifting the head and holding the same in the raised position, magnetic cores carried by the



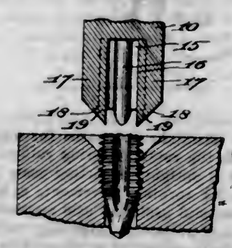
head and extending through the lifting solenoids, and means for automatically reducing the current to the lifting solenoids as the head reaches its upper position.

1,683,795. SORTING AND BINDING DESK. EMIL K. OHM, Athens, Ohio; Robert J. Studer administrator of Emil K. Ohm, deceased. Filed Dec. 21, 1925. Serial No. 76,611. 3 Claims. (Cl. 11—1.)



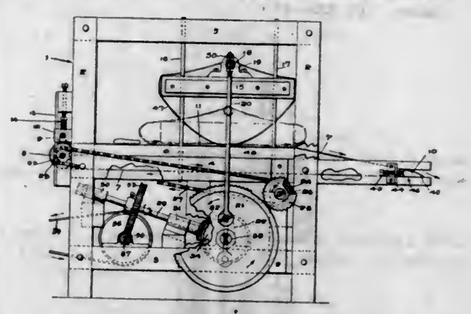
1. In a binding machine for paper or other sheets, a receiver having a bottom and side walls, the said bottom having a slot formed therein adjacent its front edge, the said side walls having grooves formed therein and extending along a portion thereof to an abutment, and a pressure plate having a slot therein adjacent one edge thereof, the said plate arranged to be received by the said grooves and to engage the said abutment so that its slot will register with that in the bottom of the receiver.

1,683,796. BROKEN-TAP EXTRACTOR. DAVID PEARCE, Los Angeles, Calif. Filed Oct. 14, 1926. Serial No. 141,454. 3 Claims. (Cl. 81—53.)



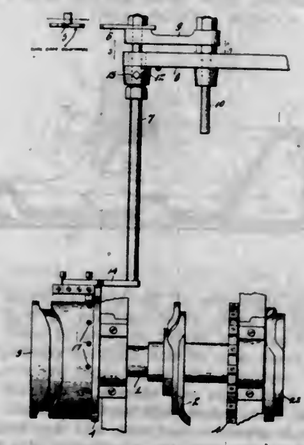
1. A broken tap extractor comprising a short cylindrical body provided at one end with an axially arranged recess on the inner surface of which recess are formed longitudinally arranged tap groove engaging ribs, the outer ends of which terminate in tapered teeth that project from the end of the cylindrical body.

1,683,797. APPARATUS FOR FORMING AND THEREAFTER RELEASING TORTILLA. ARMANDO J. PEREYRA, San Francisco, Calif. Filed July 3, 1925. Serial No. 41,417. 2 Claims. (Cl. 107—15.)



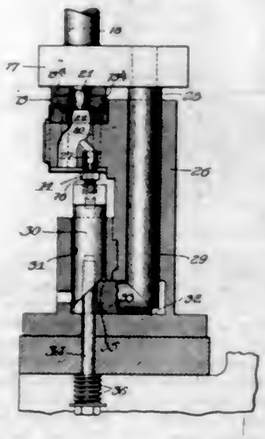
1. A machine for forming tortilla from a prepared dough, having an intermittently moving endless conveyor-belt adapted to deliver a measured portion of dough for the formation of a tortilla to a predetermined position of temporary rest, a reciprocable stamping member co-operatively associated with said conveyor-belt and bearing a loosely mounted stripping-belt adapted for two-way movement when in contact with said measured portion of dough as carried by the conveyor-belt, means for exerting pressure upon said delivered dough while in a position of rest through the action of said stamping member to cause to be formed between the said belts the tortilla, and means whereby the parting movements of said belts cause the dough-contacting side of said stripping-belt, through the reverse action of its upper side relative to that of its under side and the direction of movement of the conveyor-belt, to gradually peel the entire dough-contacting underside of said stripping-belt from the formed tortilla as it is being carried along forwardly by the said conveyor-belt.

1,683,798. PATTERN MECHANISM FOR KNITTING MACHINES. NAPOLEON J. PERRY, Nashville, Tenn., assignor to May Hosiery Mills, Nashville, Tenn., a Corporation of Tennessee. Filed Sept. 13, 1920, Serial No. 409,981. Renewed Feb. 3, 1928. 9 Claims. (Cl. 66—24.)



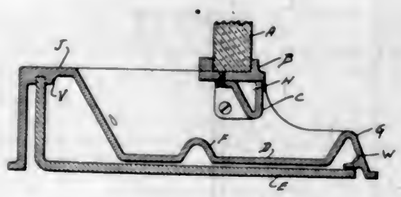
3. In a pattern mechanism, a slidable rod, a cam to raise and lower the rod, a guide member, an eccentric bearing rotatably adjustable relatively to the rod, and engaging an opening in the guide member.

1,683,799. ATTACHMENT FOR PUNCH PRESSES. GEORGE H. PICKHARD, Detroit, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a Corporation of Maine. Filed Mar. 7, 1925. Serial No. 13,779. 7 Claims. (Cl. 153—21.)



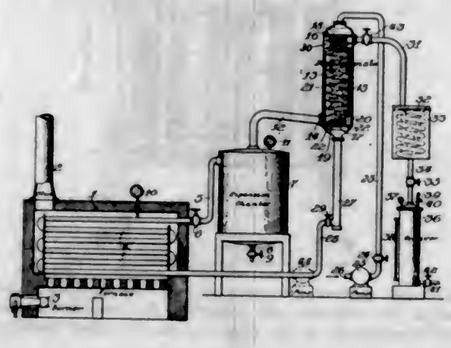
1. The combination with a punch press, of an attachment therefor having a projection with upper and lower dies thereon and shaped to support a radiator top tank after being drawn from sheet metal, upper and lower punches on opposite sides of said projection and operating on the interposed tank walls to provide a plurality of openings and a depression in one wall and a single opening in the other wall, and means controlled by the movement by the press of the upper punch into and out of engagement with the upper die for effecting the simultaneous movement of the lower punch into and out of engagement with the lower die for operating simultaneously on both walls.

1,683,800. BANK-PROTECTING DEVICE. JOSEPH PLATT, Detroit, Mich. Filed Jan. 29, 1926. Serial No. 84,686. 4 Claims. (Cl. 20—1.01.)



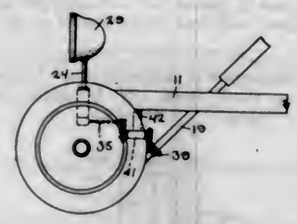
1. In an apparatus of the kind described, the combination of a bullet proof partition, a tray extending under said partition having an elevated outer and inner edge, the lower edge of said partition crossing said tray below, or approximately in, a plane extending between the upper portions of said edges at a distance from said outer and inner edges sufficient to permit the usual articles to be placed in said tray, said tray being made of a material that permits the penetration of a bullet, and a bullet proof shield located under said tray so as to catch and retain any bullet that may penetrate said tray, said tray being so located as to prevent a bullet from glancing from said shield.

1,683,801. APPARATUS FOR TREATING OIL. ROBERT T. POLLOCK, New York, N. Y., assignor to The Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Original application filed Dec. 2, 1920, Serial No. 427,873. Divided and this application filed Mar. 7, 1923, Serial No. 623,312. Renewed Mar. 15, 1928. 3 Claims. (Cl. 196—139.)



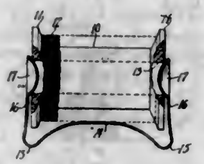
3. In an apparatus for cracking hydrocarbon oil, the combination of a dephlegmator comprising a vertical, cylindrical shell, partition members located in said shell near each end thereof forming upper and lower compartments and an intermediate compartment, a vapor inlet and a vapor outlet communicating with said intermediate compartment, means extending through said intermediate compartment connecting the upper and lower compartments of said dephlegmator, said lower partition member being provided with apertures through which the reflux condensate formed in the intermediate compartment can pass from said intermediate compartment into said lower compartment, means for introducing a cooling medium into the upper compartment of said dephlegmator, and means for withdrawing said cooling medium and reflux condensate from the lower compartment of said dephlegmator.

1,683,802. DIRIGIBLE HEADLIGHT. LEWIS G. RATH, Pine Lawn, Mo. Filed June 24, 1926. Serial No. 118,280. 1 Claim. (Cl. 240—62.)



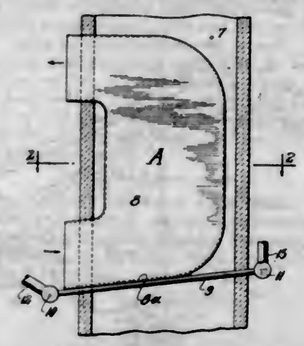
In a dirigible headlight apparatus for automobiles, the combination with the rotary steering column of the automobile, of a pair of upright supporting posts mounted upon the automobile for turning movement, a headlight supported by each of said posts, an arm secured to the lower end of each of said posts and extending rearwardly therefrom, a bar pivotally connected at its ends to the rear ends of said arms and extending between the same, the bar being provided upon its under side with a series of rack teeth, a shaft journaled horizontally upon the frame of the automobile in rear of said bar, a pinion fixed upon the forward end of the shaft and meshing with the rack teeth upon the under side of the bar and constituting means for supporting the bar against downward displacement, a beveled pinion fixed upon the rear end of the shaft, and a bevel gear fixed upon the steering column and meshing with the underside of the periphery of the bevel gear.

1,683,803. THREAD HOLDER AND CUTTER. WILLIAM L. RATHJEN, Portland, Oreg. Filed July 12, 1927. Serial No. 205,114. 3 Claims. (Cl. 242—135.)



1. A thread holder and cutter consisting of a U-shaped spring metal clip having trunnions formed in its ends adapted to engage the hole ends of a spool; and having a cutting edge on the side of the middle portion of said clip, the flat side of said middle portion bearing against the thread on the spool upon which the device is mounted.

1,683,804. AIR PREHEATER. CARL S. REED, Yonkers, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 3, 1925. Serial No. 72,889. 2 Claims. (Cl. 122—4.)



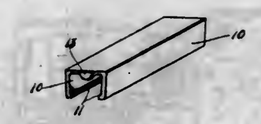
1. In combination, a waste gas conduit, a plurality of air conduits extending in said gas conduit comprising a plurality of hollow plates spaced to provide gas passage therebetween, a manifold at each of two opposite sides of said gas conduit and outside thereof, a plurality of pipes connecting said conduits and located immediately in advance of the leading edges of said hollow plates, a cooling medium inlet to one of said manifolds and a cooling medium outlet from the other manifold.

1,683,805. AIRPLANE. BRUNO REICHELT, Nutley, N. J. Filed Oct. 22, 1927. Serial No. 227,939. 6 Claims. (Cl. 244—2.)



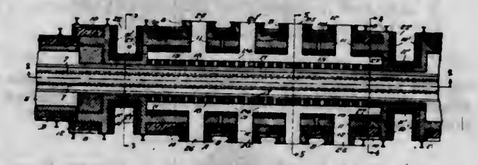
1. An aircraft having a parachute chamber at the bottom thereof, and a flotation member at the lower edge of said chamber and surrounding same, said chamber being vented.

1,683,806. SHOE FOR TRANSMISSION-CLUTCH-DRUM LUGS. JOHN W. RICHARDS, Jr., Essexville, Mich. Filed Mar. 20, 1926. Serial No. 96,185. 4 Claims. (Cl. 192—69.)



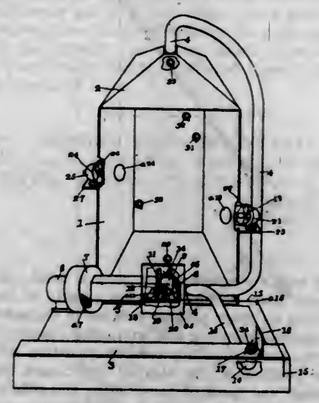
1. A channel shaped hardened steel shoe adapted to be detachably secured to a lug of a transmission clutch drum.

1,683,807. KILN. HARRY M. ROBERTSON, Cleveland, Ohio. Filed Jan. 28, 1928. Serial No. 250,294. 10 Claims. (Cl. 25—142.)



1. In a tunnel kiln, a longitudinally extending combustion chamber, a fuel port, a settling chamber connecting said fuel port with the combustion chamber, and a clean-out port at one end of said settling chamber.

1,683,808. AUTOMATIC MOVING-TARGET SHOOTING GALLERY. ARDELLO M. ROWE and CLAUDE O. ROWE, Bellingham, Wash. Filed Sept. 20, 1927. Serial No. 220,649. 6 Claims. (Cl. 124—16.)

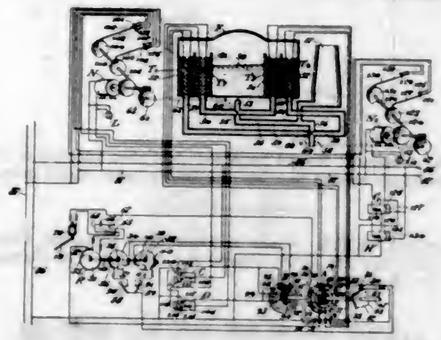


1. In a shooting gallery the combination of an open-front chamber and means to cause a circulation of buoyant targets from below in said chamber upward through the same and then downward to the said lower part of said chamber to again pass upward therein.

1,683,809. CONTROL SYSTEM. WILLIAM R. SCHOFIELD, Jr., Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 10, 1924. Serial No. 712,199. 39 Claims. (Cl. 236—70.)

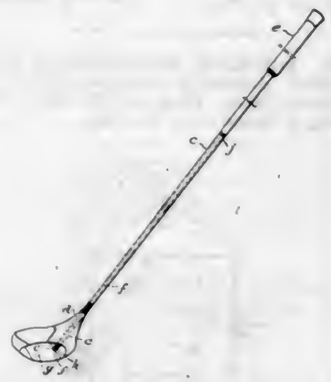
1. The method of controlling a regenerative furnace having regenerative chambers and valve mechanism for trans-

ferring the flow of combustion materials, which comprises intermittently effecting a control whose magnitude varies with the temperature in one of said chambers, and actuat-



ing said valve mechanism in response to said control upon attainment of predetermined temperature in said one of said chambers.

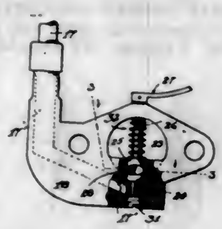
1,683,810. GOLF CLUB. DAVID SPITTAL, Chambly Basin, Quebec, Canada. Filed Aug. 17, 1927, Serial No. 213,663, and in Canada Aug. 11, 1927. 1 Claim. (Cl. 273—80.)



In a golf club the combination with a head; of a full length hickory shaft having a handle or grip at its upper end and having its lower portion reduced in diameter forming a surrounding shoulder and extending continuously to the sole of the head; a hollow steel shaft fitting tightly on the reduced portion of the hickory shaft, and being extended through the head of the club to the sole thereof; means uniting the lower ends of the steel shaft and hickory shaft within it to the head of the club at the sole thereof and means uniting the upper end of the steel shaft to the hickory shaft with the upper end of the steel shaft in bearing relation with the surrounding shoulder on the hickory shaft.

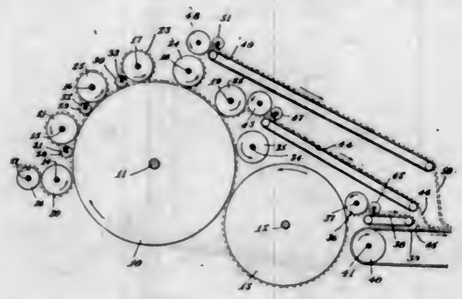
1,683,811. WATER CIRCULATOR AND AIR MOISTENER FOR INTERNAL-COMBUSTION ENGINES. ARCHIBALD THOMSON, Peoria, Ill., assignor to Frank A. Hall, Peoria, Ill. Filed Aug. 2, 1926. Serial No. 126,668. 5 Claims. (Cl. 123—25.)

1. The combination with the carburetor of an internal combustion engine, its throttle-arm, and an intake manifold, of a member interposed between said carburetor and manifold including an opening therethrough connecting the interior of the carburetor and manifold, and also including a bore and an outlet therefrom leading into the manifold, there being a passage in said member communicating with the said bore for the induction of water vapors, said passage being spaced from the said outlet of said bore, a ro-



tatable tubular valve seated in the bore, the cavity of said valve communicating with the said passage, said valve having a port in its wall adapted to register with the outlet, and an arm to operate the valve, said arm having connection with the throttle arm whereby in the movement of the latter the throttle and said valve are simultaneously operated.

1,683,812. METHOD OF AND APPARATUS FOR MANUFACTURING TEXTILE FLEECE. PATRICK H. WALSH, Newton, Mass., assignor to Caro Cloth Corporation, Carolina, R. I., a Corporation of Delaware. Filed Sept. 11, 1926. Serial No. 134,785. 1 Claim. (Cl. 19—106.)



The combination, with a base fabric and means for moving the same at a predetermined speed, of a carding machine having a doffer, means associated therewith for removing therefrom a web of fleece formed of material passing through the carding machine, an endless conveyor associated therewith and receiving the web of fleece therefrom and delivering the same onto the base fabric at the same speed as said fabric, of a plurality of supplemental web forming elements arranged in advance of the doffer, and endless conveyors associated with said supplemental web forming means for delivering said supplemental webs to the moving base fabric and at the same speed as the speed of said fabric and to a position over and onto the first said web, whereby the plurality of webs of fleeces are delivered to the moving base fabric in superimposed relation to each other and at the same speed of travel as the speed of travel as the base fabric.

1,683,813. VALVE MEANS. DWIGHT E. AUSTIN, Los Angeles, Calif., assignor to The Pickwick Corporation, Los Angeles, Calif., a Corporation of California. Filed Dec. 16, 1924. Serial No. 756,323. 10 Claims. (Cl. 251—13.)

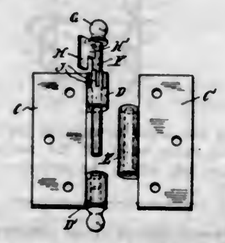
10. In a means of the class described, a pair of oppositely disposed interchangeable coupling members secured

with their corresponding ends adjacent each other forming a continuous passage therethrough, each coupling member having a side opening, and valve means mounted in said



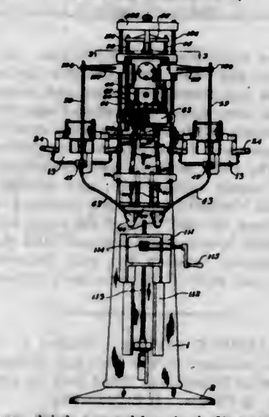
passage with its pivotal axis between the adjacent ends of the coupling members, for controlling the flow of fluid through said passage and said side openings.

1,683,814. HINGE. LESLIE W. BLOCK, Webster Groves, Mo. Filed Dec. 11, 1925. Serial No. 74,834. 3 Claims. (Cl. 16—144.)



1. A loose-pin hinge having a plurality of leaves joined together at a knuckle, a tubular section of said knuckle having a notch cut therein, said pin having a projecting part adapted to enter said notch and project therethrough into the space between said leaves whereby said pin is maintained in predetermined relation to the leaf to which said tubular section is attached, and a stop member extending downwardly from said projecting part between the leaves of said hinge whereby the opening movement of said hinge will be stopped when the free leaf thereof engages said stop member.

1,683,815. SCREW-DRIVING MACHINE. GEA C. BROWN and GREGORY F. MCNULTY, Massillon, Ohio, assignors to The Reynolds Machine Company, Massillon, Ohio, a Corporation of Ohio. Filed Nov. 2, 1925. Serial No. 66,223. 6 Claims. (Cl. 144—82.)



1. A screw driving machine including a magazine for containing screws, a plurality of escapement means associated with the magazine, a chuck communicating with each escapement means, a screw driving bit rotatably and slidably located in each chuck, means for simultaneously operating said escapement means, to admit screws to the chucks, and lowering the driving bits through the chucks, and means for compensating for variation in the lengths of time to drive the several screws.

1,683,816. MOP. PETER BROWN, Chicago, Ill., assignor to O-Cedar Corp'n, a Corporation of Illinois. Filed July 29, 1926. Serial No. 125,624. 3 Claims. (Cl. 15—229.)



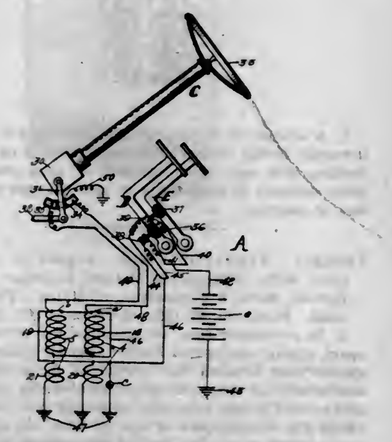
1. In a mop head, a frame comprising a single substantially flat strip, the ends of said strip being brought into juxtaposed relationship with each other, a handle socket having a bifurcated portion integral therewith, the furcations of said portion embracing the ends of said strip to maintain said ends in said relationship, and a pivot pin passing through said furcations and said ends.

1,683,817. MOP HEAD. PETER BROWN, Chicago, Ill., assignor to O-Cedar Corp'n, a Corporation of Illinois. Filed Mar. 21, 1927. Serial No. 176,947. 1 Claim. (Cl. 15—229.)



A mop head comprising a metal strip having ends bent at right angles thereto, said strip being bent into a triangle with said ends abutting each other, teeth struck out from said strip forming slots for defining the position of the vertices of the triangle and a mop fabric adapted to be engaged by said teeth and to be secured to said strip by being hooked over said teeth.

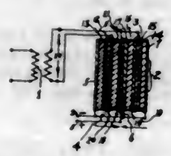
1,683,818. VEHICLE SIGNALING MEANS. JOSEPH P. CARTER, Los Angeles, Calif. Filed Oct. 27, 1921. Serial No. 510,704. 1 Claim. (Cl. 177—337.)



A vehicle provided with the usual steering mechanism and pedal controlled members, in combination with a signaling member provided with signaling means for indi-

cating a turning movement of said vehicle, means connected with a source of electrical energy whereby said signaling member is energized upon depression of one of said pedal controlled members, means connected with said steering mechanism to expose to view the signaling means of the signaling member to indicate a turning movement of the vehicle upon movement of the steering mechanism, and means for maintaining said signal in exposed position until release of the depressed pedal controlled member.

1,683,819. ORIENTED ELECTRICAL CONTACTOR. PHILIP E. EDELMAN, Chicago, Ill. Filed Dec. 15, 1927. Serial No. 240,215. 8 Claims. (Cl. 62—89.)



1. A rectifying device consisting of a pair of oriented electrical contactors comprising an electropositive metallic electrode having a crystallized metallic surface alloyed thereon, and an eletronegative metallic electrode having a chemically combined electronegative compound of a non-metallic electronegative element coated thereon, the contact junction being located between said crystallized metallic surface and said non-metallic coated element.

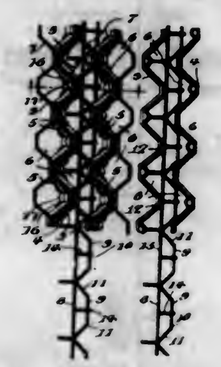
1,683,820. VENTILATOR. EDWARD H. ELLISON, Jamestown, N. Y., assignor to Ellison Bronze Company, Inc., Falconer, N. Y., a Corporation of New York. Filed Aug. 24, 1926. Serial No. 131,184. 4 Claims. (Cl. 98—88.)



1. A ventilator comprising a sash having a continuous, inwardly facing channel therein, two sets of louvers extending into and rigidly secured in said channel and a plate mounted to reciprocate in said channel between said sets of louvers.

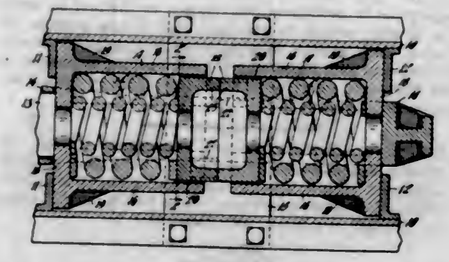
1,683,821. RADIATOR CORE. JOSEPH D. HARRIS, Detroit, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a Corporation of Maine. Filed June 27, 1925. Serial No. 40,110. 6 Claims. (Cl. 257—125.)

4. In a radiator core, the combination with two spaced apart zigzag corrugated water passage plates, of a flat spacer plate between the corrugated plates and having a multiplicity of truss-like projections struck out from one side of said spacer plate and extending into the spaces between the corrugations of one of said corrugated plates, said projections having their basic dimensions lengthwise of the spacer plate greater than the width of the entrances of said spaces so that the projections extend only part way into said spaces and contact with the inclined portions thereof for holding the flat body of the spacer plate on the side opposite said projections against the crowns of the



corrugations of the other corrugated plate and with the portions at the outer ends of the projections bridging across the spaces into which the projections extend.

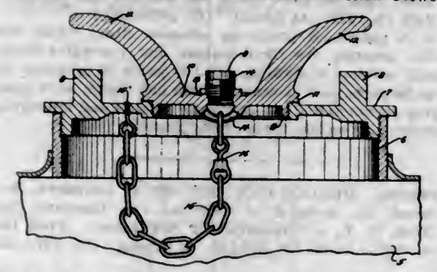
1,683,822. SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 28, 1927. Serial No. 171,417. 6 Claims. (Cl. 213—48.)



1. In a spring shock absorbing mechanism, the combination with front and rear main follower casings having outer end walls functioning as front and rear main followers and open inner ends; of front and rear intermediate followers telescoped within and completely encircled by said casings, said rear and front intermediate followers being movable with the front main follower casing and the rear main follower casing respectively; and tandem arranged spring resistance elements, one of the members of which is interposed between the end wall of the front follower casing and the front intermediate follower, and the other of which is interposed between the rear intermediate follower and the end wall of the rear main follower casing.

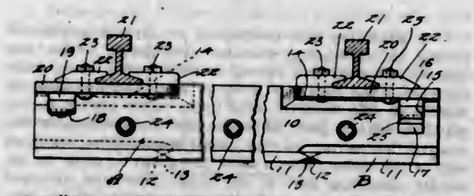
1,683,823. MANHOLE COVER. JULIUS P. HEIL, Milwaukee, Wis., assignor to The Heil Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 19, 1924. Serial No. 757,028. 2 Claims. (Cl. 220—39.)

1. The combination with a metal tank for holding a volatile inflammable fluid and having a threaded opening, of a two-part closure therefor, comprising a metal cap part threaded into said opening and forming an electrical connection with the tank and having a central threaded opening, a cover part threaded into the cap part opening and having outwardly projecting arms for moving said cover part, the removal of the cap part permitting access to the interior of the tank, and a flexible contact member normally within the tank and connected to the two parts of the closure to form an electrical connection between



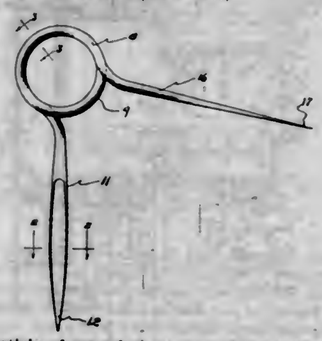
the two closure parts and to prevent the separation of said parts but permitting the separation of the two-part closure from the tank.

1,683,824. RAILWAY TIE. NIKOLAI HILL, Mellen, Wis. Filed Mar. 24, 1928. Serial No. 264,365. 1 Claim. (Cl. 238—38.)



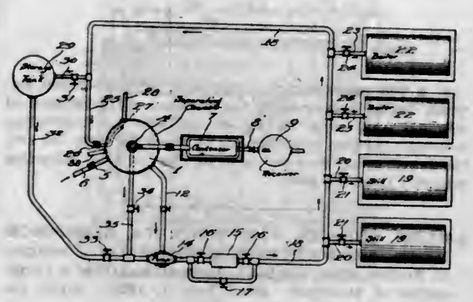
A railway tie divided vertically and longitudinally into identically shaped and constructed sections, each of the sections comprising a web portion, a base portion, and a chair seat portion, one end of the web portion extending beyond one end of the base portion and being reduced in height, said extending portion of the web having a transverse recess in the upper edge thereof, the other end of the upper edge of said web portion having a transverse recess registering with the first recess when the sections are secured together, a shelf beneath each of the first-named recesses, one end of the chair resting over a recess, and a cushion member disposed transversely in said recesses and resting on the said shelf members, said cushion members being disposed in supporting relation to corresponding ends of said chairs.

1,683,825. BELT-LACING TOOL. GEORGE HONEY, Canuck, Saskatchewan, Canada. Filed Jan. 8, 1926. Serial No. 79,975. 2 Claims. (Cl. 7—17.)



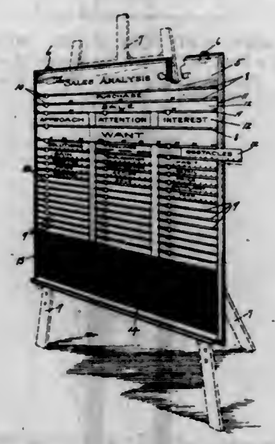
2. An article of manufacture, comprising a single piece of wire having the main body coiled upon itself into a circular form and the ends projecting diametrically outwardly therefrom at substantially right angles to each other, each of said ends being tapered toward its end.

1,683,826. PROCESS FOR TREATING RESIDUAL OILS. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed May 26, 1924. Serial No. 715,827. 7 Claims. (Cl. 196—76.)



1. An improved method for utilizing the liquid residue from a hydrocarbon oil cracking process, which comprises withdrawing the residual oil from a pressure cracking still, while at a temperature in excess of 400° F., lowering the pressure on the liquid residue, introducing the same to an enlarged zone, taking off vapors from said enlarged zone which have been evolved from the residual oil therein, in maintaining a body of the heated residual oil in said enlarged zone, continuously circulating the hot residual oil through a closed ring, including said enlarged zone, and supplying regulated quantities of the hot residual oil from said closed ring to selected furnaces positioned adjacent the ring, to constitute the fuel consumed therein.

1,683,827. ANALYSIS CHART. HAROLD E. INGRAM, Burlingame, Calif. Filed Aug. 3, 1926. Serial No. 126,837. 7 Claims. (Cl. 35—12.)



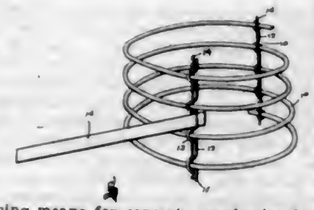
1. A device of the character referred to for graphically indicating the kind and degree of mental action and reaction during a conversation, said device having thereon as a part thereof words expressive of various actions, conditions and mental attitudes, and separate movable means associated with each word and operable for selectively indicating said words for the purposes referred to.

1,683,828. RECORDING PEN. GEORGE B. IRELAND, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Original application filed July 22, 1926, Serial No. 124,220. Divided and this application filed Mar. 16, 1927. Serial No. 175,842. 8 Claims. (Cl. 120—43.)



1. A pen consisting of a thin piece of composition material having substantially the physical characteristics of celluloid, said piece having on one side an indentation defining a pointed protuberance on the other side, the protuberance being provided with a fine incision extending inwardly from the point.

1,683,829. SPACER FOR CONCRETE REENFORCEMENT. THOMAS H. KANE, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed June 1, 1925. Serial No. 33,966. 5 Claims. (Cl. 72—76.)



5. Spacing means for concrete reenforcing hooping consisting of a member adapted to be arranged longitudinally of the hooping and provided with substantially equispaced means for attachment to the several flights of said hooping, said member being capable of elongation or shortening whereby to increase or diminish the distance between the attaching means, and means for fixing the length and distances between the attaching means when said spacer is applied to said hooping.

1,683,830. MOTION-PICTURE FILM. MICHEL KRASLAVSKY, New York, N. Y., now, by change of name, Mitchell Krass. Filed Aug. 31, 1925. Serial No. 53,458. 2 Claims. (Cl. 88—19.5.)

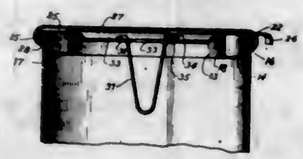


1. A motion picture film comprising a plastic film body, and relatively narrow and thin strips of woven silk fabric embedded in the longitudinal edge portions of the film body and being wholly enclosed by said film body, the body material entering into the meshes of the silk fabric.

1,683,831. CELLULOSE ETHER AND PROCESS OF MAKING SAME. LEON LILIENFELD, Vienna, Austria. Filed June 16, 1923, Serial No. 645,910, and in Austria July 13, 1922. 44 Claims. (Cl. 260—152.)

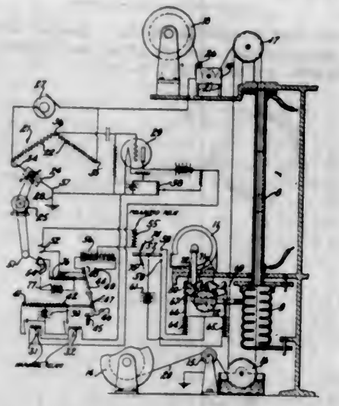
1. A process of preparing cellulose ethers which comprises treating low-alkali-content and low-water-content alkali cellulose containing per 100 parts of cellulose, not over 50 parts each of caustic alkali and water, with etherifying agents and allowing caustic alkalies and etherifying agents to act on the intermediate formed.

1,683,832. DREDGE CAN. STANLEY H. LINDGREN, Maywood, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 4, 1922. Serial No. 604,756. 8 Claims. (Cl. 221—62.)



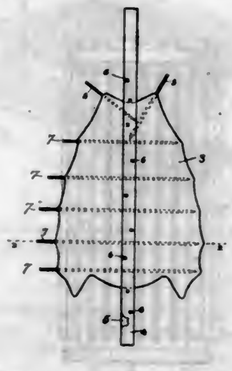
1. A sifter top can, comprising a body, an undercover having an upstanding shoulder arrangeable within and against said body and having an edge turned down about the end of the body into a seam, a channel arranged inwardly of said shoulder, said under cover having an upstanding central part, an outer cap of substantially flat construction having its edge curled about the turned-down edge of the under cover, a slide interposed between the upwardly extending part of the under cover and arranged through the outer cap, said outer cap and slide having openings adapted to be brought into and out of registration, and a spring for normally pressing the slide to move said openings out of registration, the channel and upstanding portion of the under cover holding the slide in desired contact with the under face of the outer cap.

1,683,833. METHOD OF AND APPARATUS FOR DETERMINING THE ENERGY LOSSES IN DIELECTRIC MATERIALS. EGIDIO EDWARD MANESCHI, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1926. Serial No. 138,803. 11 Claims. (Cl. 34—48.)



1. A method of controlling the hardness of baked insulating material, which consists in determining the dielectric losses in the material when subjected to an alternating electrostatic field, and regulating the amount of baking of the material in accordance therewith.

1,683,834. SPITS USED IN PREPARING SALMON FOR BARBECUE. SANFORD B. MAYHEW, Marietta Township, Whatcom County, Wash. Filed Aug. 9, 1927. Serial No. 211,724. 1 Claim. (Cl. 53—5.)

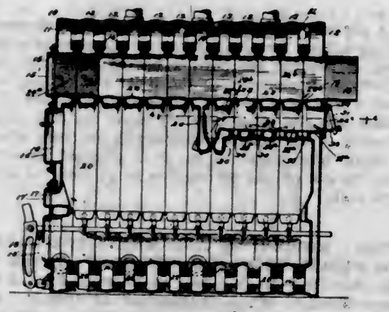


A device of the character described consisting of a pair of sticks suited to be disposed longitudinally on oposite sides of an opened fish and extend at both ends thereof beyond said fish, fastening means to draw and hold said sticks in clamping relation when said fish is therebetween, and skewers suited to be thrust laterally and diagonally through said opened body of said fish and into said body between said clamping sticks.

1,683,835. RESINOUS COMPOSITION OF MATTER AND PROCESS OF MAKING SAME. AUGUSTUS E. MAZE, Orange, N. J. Filed Sept. 14, 1926. Serial No. 135,487. 1 Claim. (Cl. 260—3.)

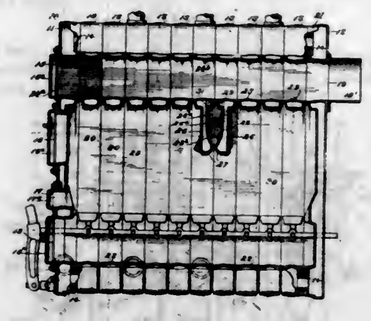
The resinous body formed by the interaction of one molecule of diacetone alcohol and three molecules of formaldehyde in the presence of an alkali.

1,683,836. BOILER. ANDRÉ M. MERTZANOFF, New York, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 5, 1925. Serial No. 60,098. 14 Claims. (Cl. 122—225.)



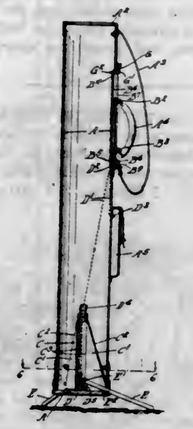
1. In a heating apparatus of the character described, means for supplying secondary air thereto comprising a water-backed duct arranged across the apparatus above and adjacent to the rear of the fuel bed and composed of separate, spaced, depending water-backed members communicating at their ends and upper intermediate portions with the water spaces of the boiler; said duct having its lower opposing wall portions tapering inwardly towards each other to form therebetween a relatively narrow, longitudinal discharge opening, substantially as specified.

1,683,837. BOILER. ANDRÉ M. MERTZANOFF, New York, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 5, 1925. Serial No. 60,099. 7 Claims. (Cl. 122—225.)



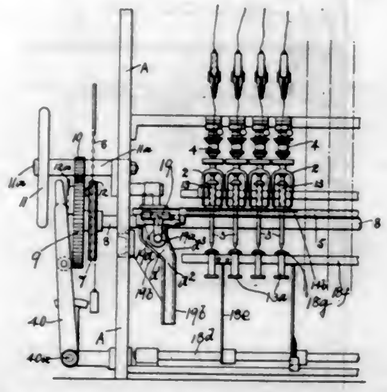
1. A boiler of the character described comprising front, back, and intermediate sections communicatively connected, certain of said intermediate sections each having a depending water containing member communicating with the water spaces of the boiler and arranged parallel in spaced relation to form therebetween a transverse duct having a constricted discharge opening at its base, and horizontal partitions dividing the end portions of said duct to form upper passages open at the outer ends thereof for conducting air to a point intermediate the ends of said duct and discharging the same into the lower portions thereof, substantially as specified.

1,683,838. GOLF BAG. FRANK H. MOONEY, Chicago, Ill. Filed May 2, 1927. Serial No. 188,185. 9 Claims. (Cl. 150—1.5.)



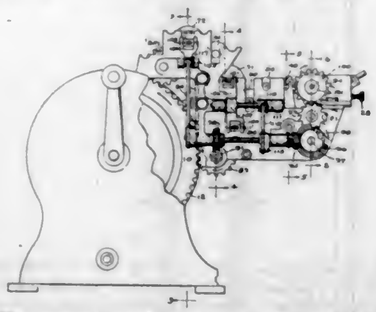
1. The combination with a golf bag and carrying means therefor, of a ground engaging support at the lower end thereof, said support including a vertically movable member and a guide therefor, and a plurality of legs pivoted to said vertical member, the bag being apertured to permit the projection of said legs, a flexible element secured to said vertical member, and a connection between said flexible element and the carrying means, whereby the support is automatically moved to inoperative position when the carrying means is in use.

1,683,839. DOFFING APPARATUS FOR SPINNING, DOUBLING, TWISTING, AND LIKE MACHINES. SAMUEL MOORHOUSE, Leeds, England, assignor to Fairbairn-Lawson Combe Barbour Limited, Leeds, England. Filed June 29, 1927, Serial No. 202,334, and in Great Britain July 6, 1926. 7 Claims. (Cl. 118—18.)



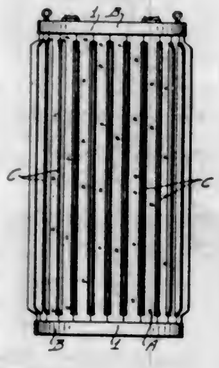
1. In doffing apparatus for spinning and like machines, bobbins arranged to take over the spindles of said machines, said spindles, a lifter plate for raising and lowering the bobbins upon the spindles, an oscillating shaft for transmitting motion to said lifter plate, connections from said shaft to said lifter plate, cam mechanism for automatically operating the lifter plate during the process of building, coupling means for connecting hand operated devices to said shaft, said hand operated devices, bifurcated members for laying hold of the bobbins when supported by the lifter plate, a rail supporting said bifurcated members, a shaft and connections therefrom to support and operate said rail, lever devices for connecting said shaft to cam mechanism, a cam device for operating said levers to cause the bifurcated members to lay hold of the bobbins and to recede with said bobbins, cam mechanism for removing coils of yarn from off the spindles when the bobbins have been discharged therefrom, and means for operating said cam devices.

1,683,840. INKING ATTACHMENT FOR PRINTING MACHINES. LAWRENCE H. MORSE, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 5, 1926. Serial No. 146,338. 7 Claims. (Cl. 101—351.)



1. The combination with a rotary printing drum, of several form rolls adapted to coact therewith and a corresponding number of distributor rolls coacting with said form rolls respectively, a fountain roll, mechanism for transferring ink therefrom jointly to two of said distributor rolls, and means for transferring ink from one of said distributor rolls to another of said distributor rolls.

1,683,841. RIBBED OR CORRUGATED SHEET-METAL MEMBER. JAMES J. MULLEN and FRANCIS M. STAMBAUGH, St. Louis, Mo.; said Stambaugh assignor to said Mullen. Filed Jan. 7, 1927. Serial No. 159,587. 4 Claims. (Cl. 220—72.)



1. A sheet metal member having a side wall provided with laterally projecting ribs, or hollow corrugations, formed by folded or bent portions of the plate from which said receptacle is constructed, end closures for said corrugations formed by integral portions of said plate, and a rim located beyond one end of said corrugations and formed by abutting end sections of said plate that merge into the portions of the side wall located between said corrugations.

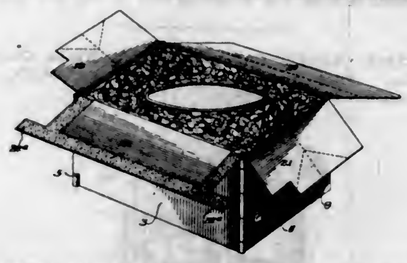
1,683,842. METHOD OF FORMING RIBBED OR CORRUGATED SHEET-METAL MEMBERS. JAMES J. MULLEN and FRANCIS M. STAMBAUGH, St. Louis, Mo.; said Stambaugh assignor to said Mullen. Filed Jan. 7, 1927. Serial No. 159,588. 11 Claims. (Cl. 113—116.)



1. A method of forming a ribbed or corrugated member, characterized by forming a notch in one edge of a plate, folding or bending the portion of the plate that is in longitudinal alignment with the inner end of said notch in such a way as to form a corrugation or hollow rib on the plate and also simultaneously cause the side edges of said notch to move into substantially abutting relationship while being retained in their original plane, and closing the end of said corrugation by an integral portion of said plate.

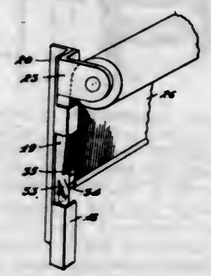
1,683,843. METHOD OF AND MEANS FOR PACKAGING MERCHANDISE FOR SHIPMENT. DANIEL NELSON, Oak Park, Ill., assignor to Marshall Field & Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 6, 1925. Serial No. 20,926. 2 Claims. (Cl. 206—46.)

1. A shipping package comprising an envelope of flexible material, which offers substantially no resistance to forces imparted transversely thereto, an article of merchandise within the same, and molded packing material supporting and positioning the article within the envelope; said packing material consisting of a moldable mass of resilient sub-divided material molded in situ to conform to the space between the walls of the envelope and the enclosed article and to provide a package having a predetermined regular outer surface and standing under initial compression, and the envelope having continuous closed walls, maintaining the form and compression in



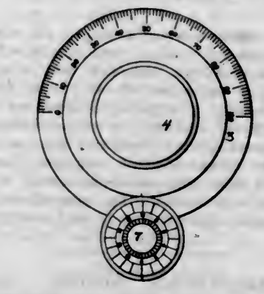
the molded packing material and standing under tension induced by the expansive force of the molded packing material.

1,683,844. WINDOW SHADE. FRANK A. NEVEU, Los Angeles, Calif. Filed Feb. 11, 1926. Serial No. 87,536. 1 Claim. (Cl. 156—26.)



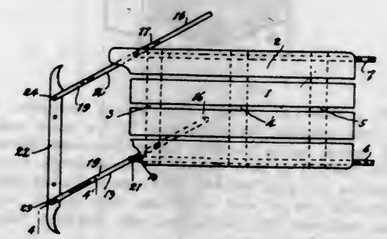
As a new article of manufacture, a combined guide and controlling element for curtains consisting of a strip of sheet metal having a portion of its width bent into a substantially U-shaped channel in cross-section and having a series of aligned inwardly extending tongues struck up from one of the side walls of said channel, said tongues being inclined toward the same end of said strip, there being a clear space between the ends of said tongues and the opposite side of said strip.

1,683,845. VERNIER DIAL FOR RADIO ADJUSTMENTS. ADOLPH PETELER, Freeport, N. Y., assignor to Thomas Howe, White Plains, N. Y. Filed June 12, 1922. Serial No. 567,857. 6 Claims. (Cl. 74—7.)



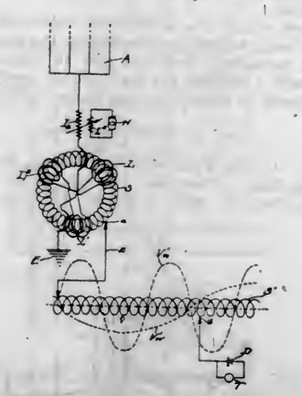
1. The combination with a main indicator of a vernier attachment comprising in combination a housing, a shaft rotatably mounted therein, a vernier indicator secured to said shaft upon the exterior of said housing, a lever within the housing pivoted upon said shaft, a driving wheel pivoted in said lever and engaging with said shaft to drive the same, said driving wheel being adapted to be moved into and out of driving relation with the main indicator by turning said lever upon its pivot, a spring tending to force said driving wheel against said main indicator and means for holding said driving wheel out of engagement with said main indicator against the bias of said spring.

1,683,846. SLEIGH. WILLIAM J. ROBERTSON, Winnipeg, Manitoba, Canada. Filed Jan. 5, 1926. Serial No. 79,383. 4 Claims. (Cl. 280—21.)



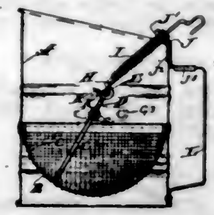
1. A sleigh comprising a seat, a pair of similar, parallel, rear runners permanently secured to the seat and provided with forward extension arms, a pair of similar steering runners, each steering runner being pivotally connected to the forward ends of the extension arms and having a rearwardly extending runner extension normally underlying the extension arms and a steering bar pivotally connecting the forward ends of the steering runners and causing them to turn in parallelism.

1,683,847. ELECTROMAGNETIC WAVE RECEIVING SYSTEM. OSCAR C. ROOS, Rockland, Me. Filed Oct. 6, 1921. Serial No. 505,785. 18 Claims. (Cl. 250—20.)



1. An electromagnetic-wave receiving system comprising in combination means for converting abrupt or impulsive electrical forces into persistent periodic vibrations of predetermined frequency, said means having its most pronounced natural rate of vibration different from that of the waves the energy of which is to be received, an oscillation detector, a slow-speed circuit having its electromagnetic constants continuously and uniformly distributed and being constructed and arranged to permit the development therein of standing waves without appreciable attenuation, said slow-speed circuit having one of its natural rates of vibration equal to one of the natural rates of vibration of said means, means electrically associating said slow-speed circuit with said means and means electrically associating said detector with said slow-speed circuit.

1,683,848. SIFTER. JOHN SHARP, Cleveland, Ohio. Filed Jan. 25, 1927. Serial No. 163,321. 9 Claims. (Cl. 209—282.)



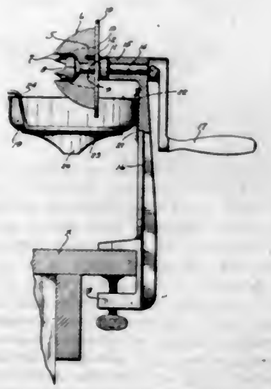
1. In a sifter, the combination with a container, having a semi-spherical sieve adjacent to its lower end, of spring beater arms movable backwards and forwards over the surface of said sieve, a common crank connecting member for said beaters, said member being pivoted diametrically across said container, and means located in the container for oscillating said cranked member and attached spring beaters.

1,683,849. PROCESS OF IMPREGNATING FABRIC WITH SUBSTANTIALLY PERMANENT FRAGRANCE AND THE PRODUCT. HARRY MORTIMER SPECHT, Pelham, N. Y. Filed Sept. 1, 1925. Serial No. 53,957. 6 Claims. (Cl. 91—68.)

1. The process of impregnating a fabric with a substantially permanent fragrant odor comprising coating the back of said fabric with a solution of a compound of suitable fragrant gums, drying said solution and further impregnating the face of said fabric with a combined solution of volatile and substantially permanent fragrant odorant adapted to blend with the fragrance of said back coating.

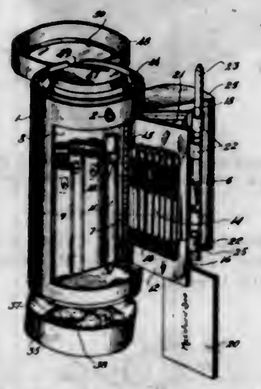
6. A new article of manufacture consisting of a pile fabric having a flexible gum coating on the back of a substantially permanent fragrance and an impregnation of the pile with a volatile and substantially permanent fragrance adapted to blend with that of the back coating.

1,683,850. JUICE EXTRACTOR. CARL J. ULRICH, Minneapolis, Minn. Filed Mar. 5, 1925. Serial No. 13,360. Renewed July 16, 1927. 1 Claim. (Cl. 146—3.)



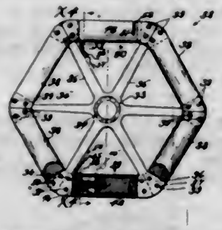
A conical reamer for extracting juices from citrous fruit and having an axial trunnion seat extending completely therethrough, said reamer having at its base a separate face plate provided with a trunnion extending into said trunnion seat, said reamer being held against rotation in respect to the face plate.

1,683,851. VANITY CASE. WALTER T. WELLS, Canton, Ohio. Filed Nov. 4, 1925. Serial No. 66,874. 4 Claims. (Cl. 206—38.)



3. A vanity case comprising a cylindric body having a semi-cylindric cut-out portion intermediate its ends, a semi-cylindric cigarette compartment accessible through said cut-out, a semi-cylindric door hinged to the body at said cut-out portion, a coin compartment hinged to one end of the cylindric body and a removable tray in the coin compartment forming a false bottom in the coin compartment.

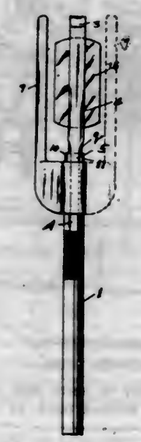
1,683,852. SIGNAL SWITCH FOR VEHICLES. SIMON PETER WIEGNER, CLAUDE W. DAVIDSON, and HENRY R. GORDON, Los Angeles, Calif. Filed Aug. 23, 1924. Serial No. 733,808. 2 Claims. (Cl. 200—59.)



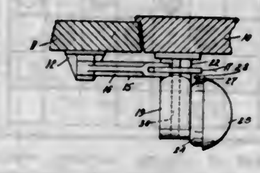
1. A vehicle steering wheel having a rim comprising a plurality of segments, one of said segments formed in two parts, one restricted segmental part being received within a bore in the other of said parts and forming therewith a cavity; a cylindrical insulated hand grip mounted on said rim segments; a contact element on said restricted segment part; a contact ring on said hand grip adapted to engage the first mentioned contact upon rotation of said hand grip and means carried by the bored segmental part and adapted for engagement with the hand grip to limit the rotation of the said grip.

1,683,853. RAZOR-BLADE HOLDER. WILLIAM J. WHITE, San Francisco, Calif., assignor of one-half to William H. Gilbert and one-half to Veryl G. Foft, San Francisco, Calif. Filed Feb. 17, 1926. Serial No. 88,724. 3 Claims. (Cl. 51—218.)

1. A razor blade holder comprising a tubular handle, a bar extending therefrom at one end, said bar being bent over at its end to form a clamp, a flat spring held in said clamp and adapted to curve outwardly from said bar in its free position, a slot in said handle to receive said spring, a sleeve on said handle, a slot in said sleeve, a guard bar on said sleeve and oppositely placed notches adapted to receive said spring on the inside of said sleeve at right angles to said guard bar.



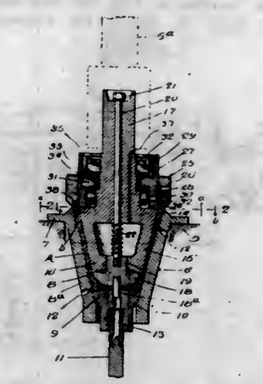
1,683,854. COMBINED DOOR FASTENER AND ALARM. ARNOLD ZUKOR, New York, N. Y. Filed June 13, 1927. Serial No. 198,449. 2 Claims. (Cl. 116—14.)



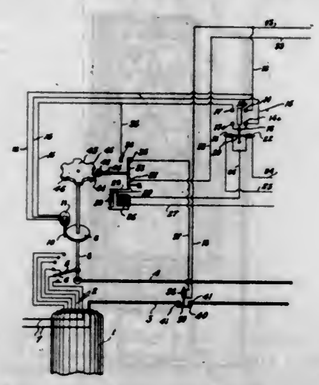
1. The combination with a door frame and a door hinged thereto, of a latch bolt pivoted to said door adjacent its free vertical edge, said latch bolt being composed of two pivotally connected sections, and a bracket fixed to said door frame having a longitudinal slot terminating adjacent the inner face of said door frame in a ledge on which the two sections of said latch bolt are adapted to rest, the outer one of said latch sections being adapted to enter said slot when the door is partially opened, said bracket being furthermore provided with a longitudinal recess into which the outer end of the inner section of said latch bolt is adapted to enter when the outer section of said latch bolt is disengaged from said ledge, the outer end of said recess forming a stop against which the outer end of the inner latch bolt section is adapted to abut, thereby preventing further opening of the door.

1,683,855. POTTERY-FORMING DIE. JOHN ANDRONOWICZ, Chicago, Ill., assignor of one-half to Bruno Bikin, Chicago, Ill. Filed Feb. 16, 1926. Serial No. 88,552. 4 Claims. (Cl. 25—26.)

1. The combination with a reciprocatory and rotative male pottery forming die and its stem, and a female pottery forming die cooperating therewith in the formation of pottery ware, of an edge trimming knife having an annular cutting edge arranged to cooperate with said female die in trimming the edge portion of the article formed by the dies, and a sleeve rotatively mounted on the stem of said male die, said knife being adjustably secured on said sleeve.



1,683,856. AUTOMATIC CONTROL DEVICE. THADDEUS F. BAILY, Alliance, Ohio. Filed Aug. 20, 1926. Serial No. 130,522. 8 Claims. (Cl. 10—22.)

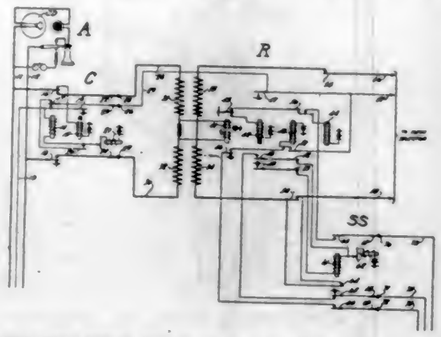


1. In combination with a transformer, a high tension circuit leading to the transformer and means for varying the voltage from the transformer, a control device for operating said voltage varying means and means in said control device to break the high tension circuit before the voltage varying means is operated.

1,683,857. AUTOMATIC TELEPHONE SYSTEM. JOHN I. BELLAMY, Brookfield, and JOHN E. GARDNER, Chicago, Ill., assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 25, 1923, Serial No. 659,304. Renewed June 20, 1927. 20 Claims. (Cl. 179—18.)

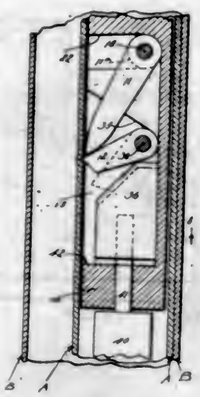
1. In a telephone system, a trunk, means for extending a calling line to said trunk, a call director, means for automatically connecting said director to said trunk responsive to said extension of the calling line, means in

said director for registering the digits in the desired number as they are called, means for translating certain of said digits into a set of code digits, sending means in said director for retransmitting series of impulses over said trunk in accordance with the code digits and the untranslated digits to extend the connection to the



called line, means for starting said sending means upon the registration of the last digit to be translated, and means for disconnecting the director and for restoring it to common use responsive to said sending means catching up with said registering means at any point in the sending operation.

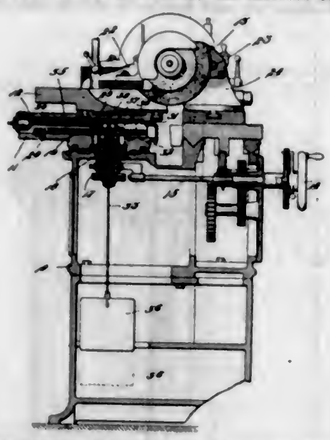
1,683,858. CASING PERFORATOR. MILLARD SUMTER BLACK, Huntington Park, Calif. Filed Jan. 9, 1925. Serial No. 1,441. 13 Claims. (Cl. 81—193.)



1. A device of the character described including a body, two individually mounted cutters carried by the body, and means whereby one cutter is operated by the other.

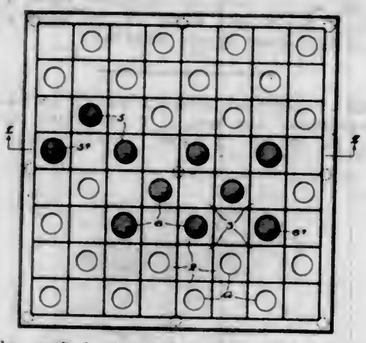
1,683,859. GRINDING MACHINE. FRANCIS P. BROWN, Providence, R. I., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 23, 1927. Serial No. 177,653. 7 Claims. (Cl. 51—165.)

7. In a grinding machine, a work support, a hollow shaft, a bed plate swingelly mounted about said shaft as an axis, a wheel stand slide having a grinding wheel mounted thereon, a rack carried by said slide, a pinion gear on said hollow shaft engaging said rack, means for rotating said hollow shaft to adjust said grinding wheel towards and from said work support and radially of said axis, a nut carried by said slide and mounted for movement in a rectilinear path across the axis of said hollow shaft, a flexible chain connected to said nut and extending through said hollow shaft, a weight on said chain, means for moving said nut to points at opposite sides of the axis of said shaft whereby the effective tension of



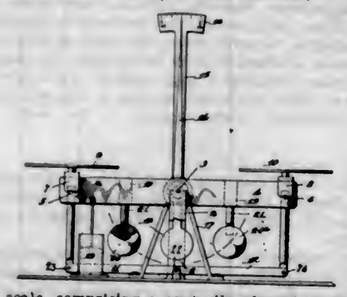
said weight may tend to move said grinding wheel relative to the surface worked upon as desired.

1,683,860. GAME. THOMAS E. CAHILL, Ardmore, Pa. Filed Nov. 26, 1927. Serial No. 235,885. 2 Claims. (Cl. 273—113.)



1. The method of playing checkers, which consists in first rolling sets of players into layer-space regions, without regard to regularity of arrangement, and then playing with said players according to the well-known rules governing checkers, using disc or lozenge players upon a board having an unbroken surface.

1,683,861. COUNTER SCALE. HUGH M. CAMERON, New York, N. Y., assignor to Elder & Robinson, a Copartnership, Chicago, Ill., consisting of Earl B. Elder, R. E. Robinson, and A. W. Robinson. Filed May 6, 1924. Serial No. 711,313. 8 Claims. (Cl. 265—54.)



1. A scale, comprising a centrally pivoted beam, a pair of pans carried by the beam and above the horizontal plane

of the pivot, one of said pans being on each side of the vertical plane of the pivotal point, a pair of weights rigidly carried by the beam one on each side of the vertical plane of the pivot and below the horizontal plane of the pivotal point.

1,683,862. RUBBER COMPOSITION. CHARLES H. CAMPBELL, Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1926. Serial No. 143,517. 2 Claims. (Cl. 106—23.)

1. A rubber composition comprising rubber having compounded with it soluble and diffusible cleavage products obtained by the hydrolytic decomposition of collagen, and which cleavage products are substantially short of aminoacids.

1,683,863. RUBBER COMPOSITION. CHARLES H. CAMPBELL, Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1926. Serial No. 143,518. 2 Claims. (Cl. 106—23.)

1. A rubber composition comprising rubber having compounded with it soluble and diffusible cleavage products obtained by the hydrolytic decomposition of keratin, and which cleavage products are substantially short of aminoacids.

1,683,864. RUBBER COMPOSITION AND PROCESS RELATING THERETO. CHARLES H. CAMPBELL, Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1926. Serial No. 143,519. 3 Claims. (Cl. 106—23.)

1. A rubber composition comprising rubber having compounded with it glue and soluble and diffusible cleavage products obtained by the hydrolytic decomposition of keratin, and which cleavage products are sustantially short of amino-acids.

1,683,865. TOY BOW. FREDERIC W. CHAMBERLAIN, Three Oaks, Mich., and ERNEST B. CHAMBERLAIN, New York, N. Y., assignors to The Warren Featherbone Co., Three Oaks, Mich., a Corporation of Michigan. Filed Dec. 3, 1927. Serial No. 237,372. 3 Claims. (Cl. 124—7.)



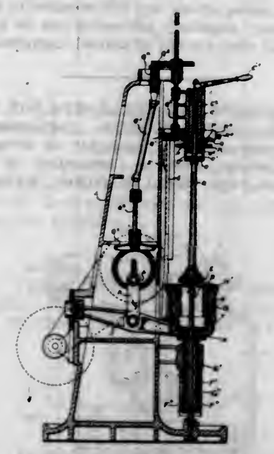
1. A bow constructed of two stout feather quills joined together at their larger ends.

1,683,866. TOOTH SCRUBBER. JERMAIN CHANDLER, Toledo, Ohio. Filed Feb. 23, 1926. Serial No. 90,001. 2 Claims. (Cl. 15—188.)



1. A tooth scrubber comprising a base, and a plurality of flexible prongs rising therefrom, each prong having a cylindrical body portion terminating at its free end in an edge, said prongs each having concave seats one on each side of said edge merging into said cylindrical portion.

1,683,867. METHOD OF TRUING GEARS. ALEXANDER W. COPLAND, Birmingham, Mich., and MAXWELL I. MATHEWSON, Providence, R. I., assignors to Detroit Trust Company, Detroit, Mich., a Corporation of Michigan. Continuation of application Serial No. 551,141, filed Apr. 10, 1922, and in Great Britain Sept. 14, 1926. This application filed Feb. 4, 1927. Serial No. 165,867. 16 Claims. (Cl. 51—278.)

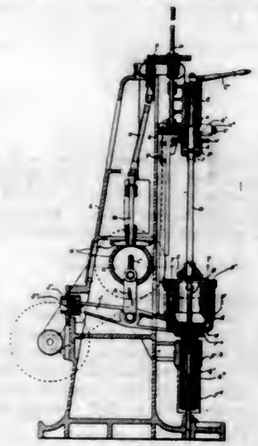


1. The method of grinding gears comprising registering the gear to be ground and a lap having a parallel tooth contour, axially reciprocating the one with respect to the other into and out of mutual engagement, maintaining substantially throughout the mutual overlapping relation of the two substantially uniform torque pressure per unit area of mutual engagement, and progressively changing the registration between the teeth of the lap and those of the gear.

1,683,868. MACHINE FOR TRUING GEARS. ALEXANDER W. COPLAND, Birmingham, Mich., and MAXWELL I. MATHEWSON, Providence, R. I., assignors to Detroit Trust Company, Detroit, Mich., a Corporation of Michigan. Continuation of application Serial No. 551,142, filed Apr. 10, 1922, and in Great Britain Sept. 14, 1926. This application filed Feb. 4, 1927. Serial No. 165,868. 13 Claims. (Cl. 51—52.)

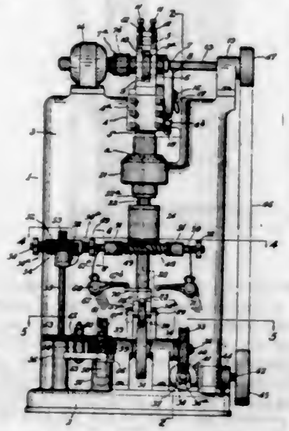
1. In a machine for lapping gears and the like, the combination of a lap having a plurality of circumferentially spaced teeth with contours parallel to those of the member to be ground; holders for supporting the lap and the member to be ground in axial alignment; means for axially

reciprocating the one in relation to the other with the teeth of the lap in abrasive contact with teeth of the member to be ground; and means for progressively chang-



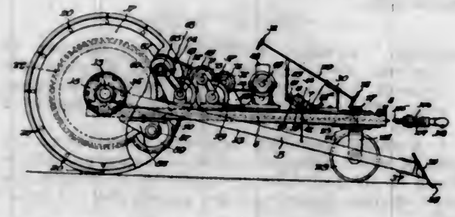
ing the registration of the lap and member to be ground by intermittently angularly advancing one in relation to the other while they are out of mutual engagement.

1,683,869. PROCESS AND APPARATUS FOR LAPPING GEARS AND OTHER OBJECTS. ALEXANDER W. COPLAND, Birmingham, Mich., assignor to Detroit Trust Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 26, 1926. Serial No. 90,949. 9 Claims. (Cl. 52—278.)



1. The method of lapping bodies having a circular series of regularly spaced teeth or projections with their intertooth spaces closed by surfaces transverse to the axis of said circular series, which method comprises forming a lap with surfaces complementary to the teeth surfaces to be lapped; supporting the toothed body and lap coaxially with their mutually complementary surfaces in abutting relation; causing a rapid vibratory axial movement of the body and lap relative to each other while maintaining the said abutting relationship between the complementary surfaces; meanwhile setting up a mutual torsional pressure between the teeth of the body and lap; and intermittently disengaging the teeth of the body and lap by relative axial movement and progressively indexing one angularly relative to the other about their common axis.

1,683,870. TRACTION APPARATUS. WILL ESPY CURTIS, Evanston, Ill. Filed June 19, 1922. Serial No. 569,479. 3 Claims. (Cl. 254—166.)



1. In a device of the character described, in combination, a chassis, supporting traction wheels for said chassis, a source of power on said chassis, an axle for said wheels, a revoluble shaft for driving said wheels, a hoisting drum concentric with said axle, a revoluble shaft for driving said drum, a gear train for driving said first mentioned revoluble shaft, a companion gear train for driving the other of said revoluble shafts, a counter-shaft, driven by the source of power and common to said other shafts, and clutch members mounted upon said counter-shaft for alternately or simultaneously engaging said gear trains for driving said shafts.

1,683,871. WATCH-JEWEL-SETTING POLISHER. HARRY CURTIS, Kemmerer, Wyo. Filed Mar. 25, 1927. Serial No. 178,342. 3 Claims. (Cl. 15—97.)

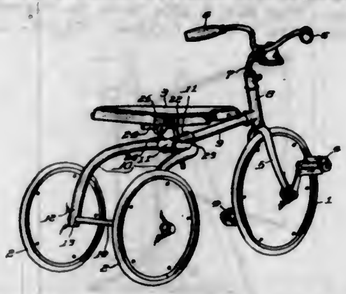


1. In a polisher of the class described, a stem, a handle on one end of the stem, a sleeve secured on the other end of the stem, a tapered pin formed on the outer end of the sleeve, an additional sleeve, the inner end of the bore thereof being tapered for frictionally receiving the tapered pin, and a polishing member carried by the outer end of the last mentioned sleeve.

1,683,872. CHILD'S VEHICLE. NATHAN H. DAVIS, Philadelphia, Pa., assignor to Keystone Lantern Company, a Corporation of New Jersey. Filed Apr. 30, 1925. Serial No. 27,042. 2 Claims. (Cl. 208—113.)

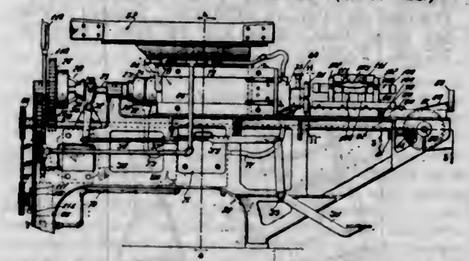
1. A child's vehicle of the character described, comprising a front wheel mounted for steering and provided with pedals, a tubular reach, a separate, tubular rear fork, rear wheels carried by the rear fork, a coupling connecting the rear fork and the reach and located substantially midway between the front and rear wheels, and a seat adjustably mounted in said coupling and supported thereby between said front and rear wheels, the sides of the rear fork being inclined rearwardly and downwardly between the coupling

and the axis of the rear wheels, and the reach and rear fork being of a length to support the rear wheels in rearwardly spaced relation to the front wheel to provide an un-



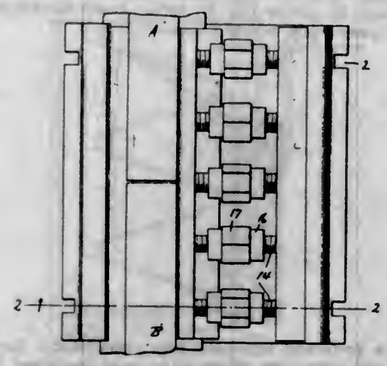
obstructed leg space therebetween to permit the vehicle to be propelled from the seat either by the pedals or by running the feet over the ground as in paddling.

1,683,873. BUTTER-PRINT MACHINE. CHARLES DOERING and HENRY H. DOERING, Chicago, Ill. Filed Jan. 28, 1924. Serial No. 688,937. 7 Claims. (Cl. 33—14.)



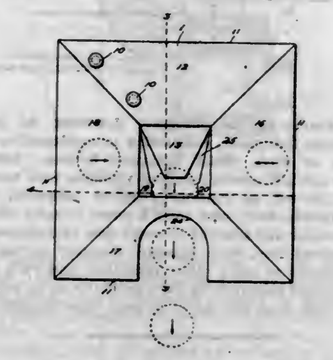
1. In a butter working and print machine, movable means for receiving the moulded butter, a counterbalanced frame disposed transversely of the path of the butter and pivotally secured at one side so as to swing vertically upward, cutting wires removably secured to said frame, and means pivoted to swing vertically in the same direction as said frame, said means being provided with grooves adapted to receive the cutting wires when the frame is swung upwardly and to strip the butter from said wires.

1,683,874. RAIL JOINT. RAY NORMAN DOODY, Caribou, Me. Filed Nov. 17, 1927. Serial No. 233,944. 2 Claims. (Cl. 238—263.)



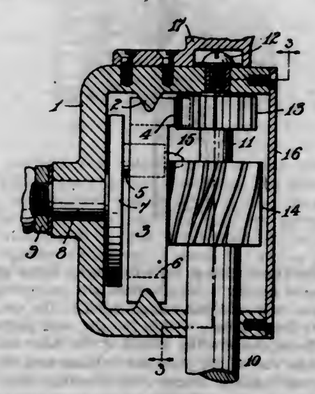
1. In a rail joint securing structure, a base plate, upstanding flanges at the opposed longitudinal edges of said plate, a clamp plate adapted to be disposed between the rail and one flange of the base plate, a clamp plate at the opposite side of the rail, a movable elongated bar adapted to engage the inner side of the opposed longitudinal flange, and expansion means interposed between the second mentioned clamp plate and the elongated bar, whereby the clamp plate will be caused to tightly engage the opposed side of the rail ends, when the same is actuated.

1,683,875. GOLF-PRACTICING DEVICE. CHARLES HUGH DUFFY and EUGENE HUGH DUFFY, Miami, Fla. Filed Oct. 17, 1927. Serial No. 226,678. 8 Claims. (Cl. 273—36.)



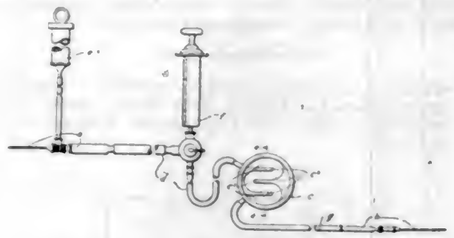
7. As an article of manufacture of the character described, a pyramidal structure of sheet material shaped to form a "cup" at the top of the pyramidal structure, one of the faces of the pyramidal structure being provided with an opening, and means within the said "cup" to deliver a ball from said "cup" through the said opening in the said face of the pyramidal structure.

1,683,876. VALVE GRINDER AND MECHANICAL MOVEMENT. WILLIAM E. DUTHIE, Indianapolis, Ind. Filed Oct. 22, 1926. Serial No. 143,366. 4 Claims. (Cl. 74—14.)



1. In a device of the character described, the combination with a shaft having a pinion thereon, of a reciprocating rack meshing with said pinion, a crank member for reciprocating said rack, a helical gear mounted on said shaft and an extension on said crank member engaging said helical gear during a portion of the movement of said crank member for rotating the shaft independently of the rack and gear connection.

1,683,877. MEANS FOR TREATING BLOOD-STREAM INFECTIONS. LESTER A. EDBLOM and EMMET K. KNOTT, Portland, Oreg. Filed Mar. 3, 1927. Serial No. 172,358. 11 Claims. (Cl. 174—177.)



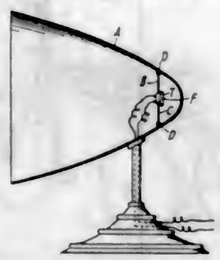
1. Apparatus of the character described for treating blood stream infections, comprising in combination with a generator of ultra violet radiation between 1800—4000 A. U., an airtight conduit having veni-puncture needles at the ends thereof, an exposure chamber connected in said conduit, intermediate such ends, a pump element connected to said conduit and adapted to cause flow therethrough at a predetermined rate, such exposure chamber having a portion permeable to ultra violet radiation, and such portion being arranged relatively to such generator as to permit the rays directed from the latter to pass therethrough.

1,683,878. HAMMER HANDLE. WILLIAM EDWARDS, ALTAVILLE, Calif. Filed Apr. 9, 1926. Serial No. 100,962. 1 Claim. (Cl. 306—33.)



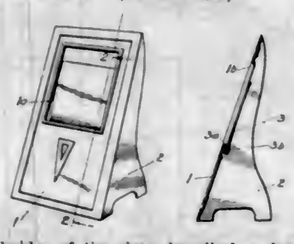
The combination with a head having a flared eye, of a wooden handle having a longitudinal slit extending thereinto from one end, said end being seated in the eye, a reinforcing plate fitted snugly within the slit, said plate having roughened faces, cooperating means at the inner end of the slit and in one end of the plate for holding said end of the plate anchored against displacement within the slit, an adhesive on the roughened faces of the plate and the walls of the slit, there being spaced longitudinal slits in that end of the plate seated in the eye, said slits being disposed adjacent the respective edges of the plate, and wedges seated within the respective slits extending transversely of the plate and handle for holding one end portion of the handle and plate expanded into engagement with the flared walls of the eye, said plate constituting means for reinforcing that portion of the handle outside of the eye and adjacent the head.

1,683,879. LOUD SPEAKER. WOLFGANG FELIX EWALD, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Nov. 6, 1924, Serial No. 748,007, and in Germany Nov. 8, 1923. 6 Claims. (Cl. 181—27.)



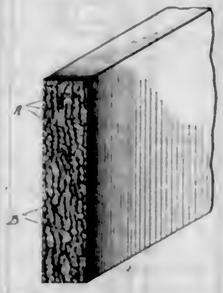
1. A loud speaking telephone receiver comprising a reflector structure having an interior surface in the form of a paraboloid, a sound producing device positioned substantially at a focus thereof, and inter-connecting supporting means therebetween comprising an inelastic material.

1,683,880. HOLDER FOR PHOTOGRAPHS, CARDS, PLATES, OR SIMILAR ARTICLES. HERMAN P. FEST, San Diego, Calif. Filed Apr. 19, 1924. Serial No. 707,669. 2 Claims. (Cl. 40—154.)



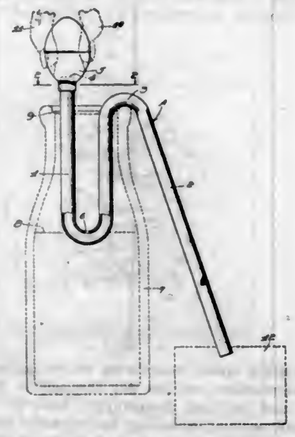
1. In a holder of the class described, a frame member provided with an opening therein, the portion of said frame member stamped out to form said opening being bent backwardly and downwardly and thence upwardly in spaced relation from said frame member below the lower edge of said opening and entending over a portion of said opening, the space between said downwardly bent portion and the one end of said upwardly bent portion forming a pocket below the lower edge of the opening of the frame member.

1,683,881. EXPANSION JOINT. ALBERT C. FISCHER, Chicago, Ill. Filed Aug. 21, 1926. Serial No. 130,681. 14 Claims. (Cl. 94—18.)



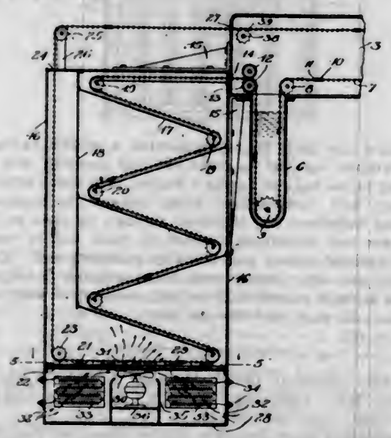
12. A preformed expansion joint comprising a loosely felted mat comprising substantially short fibres and substantially tough, tenuous rough surfaced fibres interlaced throughout the mat, said mat being permeated with a preponderance of bituminous material.

1,683,882. CREAM SEPARATOR. JOHN ALEXANDER FRISK, Chicago, Ill. Filed May 6, 1927. Serial No. 189,345. 1 Claim. (Cl. 137—20.)



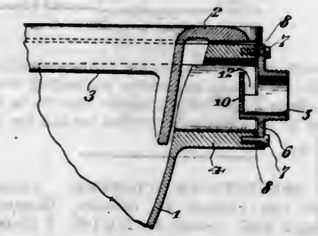
A device of the type described comprising a body portion formed of a single piece of hollow tubing and having a U-shaped portion and a substantially parallel outlet portion, said U-shaped portion having side portions connected by an arcuate-shaped lower portion, said arcuate-shaped lower portion having an opening through the top wall thereof, said outlet portion being joined to one of said side portions by an arcuate-shaped connecting portion, and a bulb disposed upon the end of the other side portion, said U-shaped portion being adapted to be disposed in a receptacle containing a liquid, said opening allowing a portion of the liquid in said receptacle to pass therethrough into said U-shaped portion, said bulb being adapted to force a portion of the liquid in said U-shaped portion into said outlet portion, the movement of the liquid in said outlet portion drawing the liquid in the receptacle above the opening, through the opening, through one side portion of said U-shaped portion, and through said outlet portion.

1,683,883. PHOTOGRAPHIC-PRINT-DRYING APPARATUS. JOHN S. GREENE, Rochester, N. Y., assignor to Photostat Corporation, a Corporation of New York. Filed May 12, 1923. Serial No. 638,644. 5 Claims. (Cl. 34—12.)



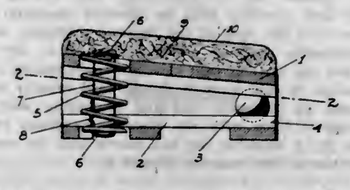
5. In a photographic print drier, the combination with a drying chamber having a plurality of slides therein arranged adjacent each other in staggered relation, of endless conveying means cooperating successively with each of said slides and engaging the print at a definite point for conveying the print progressively along first one slide then the other in reverse directions.

1,683,884. FLUSH-CONTROL MEANS FOR WATER-CLOSET HOPPERS. WILLIAM U. GRIFFITHS, Philadelphia, Pa. Filed May 17, 1927. Serial No. 191,948. 3 Claims. (Cl. 4—69.)



1. A water closet hopper provided at its upper rear side with a rearwardly extending tubular projection, the said projection having mounted thereon a nozzle which projects partly thereinto, which nozzle comprises a tubular section having a laterally and outwardly extending flange located about the middle of its length, means for securing the said flange to the outer end of the said tubular projection, and the inner end of the said tubular section of the nozzle terminating in a wall which extends at right angles to the axis of the said section, and the said section being provided with a transversely extending slot at its upper side in adjoining relation to the said wall.

1,683,885. RESILIENT AUTOMOBILE SEAT. CHARLES H. GUNN, San Francisco, Calif. Filed Apr. 14, 1926. Serial No. 101,897. 3 Claims. (Cl. 155—50.)

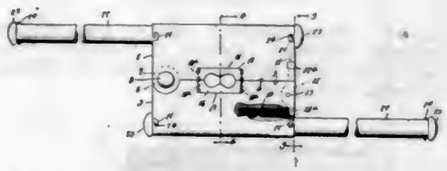


1. A resilient seat including upper and lower frames spaced apart, hinge means connecting the frames at the back, a compression spring between the frames at the front, horizontal bars narrower than the springs secured to the frames and against which the ends of the spring abut, a flexible strap passing inside the spring and around the bars, and take-up means between the ends of the strap.

1,683,886. MANUFACTURE OF STEEL. ROBERT ABBOTT HADFIELD, Westminster, England. Filed Nov. 20, 1922, Serial No. 602,293, and in Great Britain June 19, 1922. 16 Claims. (Cl. 75—22.5.)

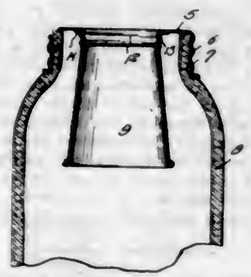
1. The method of producing flawless steel low in sulphur and phosphorus, said method consisting in heating molten refined base metal of the character herein referred to, in a basic electric furnace in the presence of deoxidant material and of basic slag forming material comprising lime, and subsequently subjecting the treated metal to the action of a deoxidizing and refining slag to reduce the percentage of sulphur and phosphorus in the metal to the desired low limits.

1,683,887. WIRE-SPLICING-SLEEVE WRENCH. FOREST D. HARR, Boulder, and JOHN FALLON, Fort Collins, Colo.; said Harr assignor to Guy O. Ritcheson, Pendleton, Oreg. Filed Feb. 18, 1926. Serial No. 89,131. 4 Claims. (Cl. 140—118.)



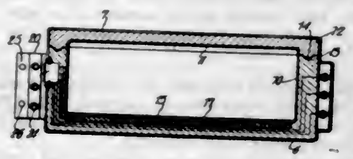
1. A wrench of the character set forth, comprising jaws, handle bars, and means adjustably connecting the handle bars to the jaws to permit the handle bars to be extended in the same or in opposite directions beyond the jaws.

1,683,888. RECEPTACLE CLOSURE. CHARLES D. HARRISON and PARREN D. LINDSEY, Hominy, Okla. Filed Aug. 2, 1927. Serial No. 210,145. 5 Claims. (Cl. 215—81.)



1. A device of the character described comprising a metallic closure cap for preserving jars having a flat top wall and provided with an annular marginal flange to secure it on the neck of the jar, and a tubular metallic fruit depressing member rigidly attached to the under side of the top wall of said closure cap in spaced concentric relation to said annular flange, said tubular member being open at its lower end and projecting well below said flange to form with the closure cap, when removed from the jar, a drinking cup and saucer unit for reception of a portion of the contents of said jar.

1,683,889. FOOD CONTAINER AND HEATER. WILLIAM G. HAYNE, Brooklyn, N. Y. Filed June 13, 1927. Serial No. 198,537. 6 Claims. (Cl. 219—35.)



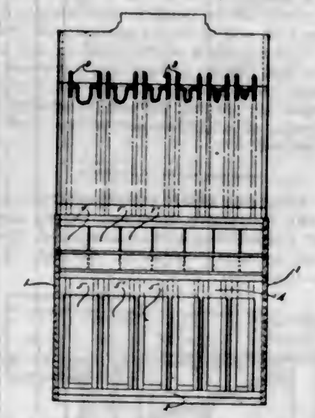
5. A plurality of containers adapted to be used in the delivery of food, each comprising an outer member, an inner member and a plurality of electric heating elements of different resistances disposed between said members and plug and socket connections between each of the containers whereby their heating elements can be connected in circuit.

1,683,890. TROLLING SPOON. HERBERT WILLIAM HEITMILLER, Seattle, Wash. Filed Mar. 2, 1927. Serial No. 172,056. 6 Claims. (Cl. 43—42.)



1. A trolling spoon comprising an elongated body having an intermediate section flat throughout the width of the body and inclined downwardly towards its forward end, a rear section extending horizontally from said intermediate section and bent to form upwardly diverging side portions, and a front section extending from said intermediate section at an upward incline and bent longitudinally to form downwardly diverging side portions.

1,683,891. CABINET. FREDERICK G. HODELL, Cleveland, Ohio, assignor to The Chain Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 12, 1927. Serial No. 174,832. 4 Claims. (Cl. 312—172.)

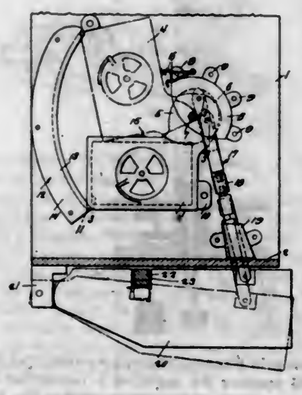


1. In a tire chain display apparatus, a cabinet having a compartment open at its front end and provided with an opening in the top and having a display rack above said top opening, said compartment being adapted to receive a shipping container slid thereinto through its open end as a drawer and containing a batch of chain laid in superposed parallel layers and laterally confining said layers as laid, and said display rack being adapted to support an end of chain extending from said container in said compartment through said top opening.

1,683,892. FIRING DOOR. ROBERT T. HORTON, Greenwood, Ind. Filed Feb. 18, 1927. Serial No. 169,302. 1 Claim. (Cl. 110—178.)

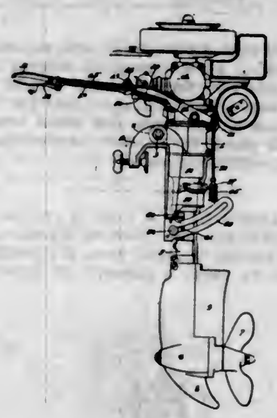
A swinging door structure of the character described, designed to overlie a wall opening, comprising a door body, a relatively large ear projecting upwardly from one upper

corner of said door and having an aperture formed therethrough on a line lying inwardly of and parallel with the adjacent end edge of the door, a pivot element extending through said aperture to support the door, a pull arm arranged at an inclination with respect to the said end edge



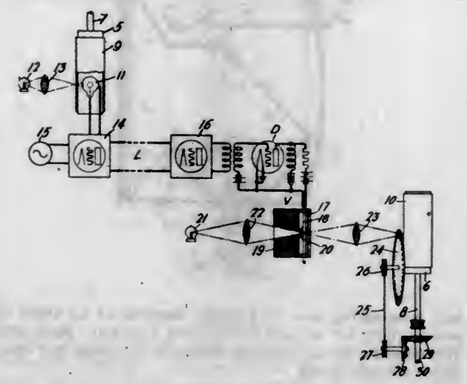
of the door and having one end pivotally connected to said ear in a plane above the pivot and on a line with the adjacent end edge of the door, and a foot operated lever, connected with the other end of said pull arm for the foot control of the door.

1,683,893. OUTBOARD MOTOR. FINN T. IRGENS, Jackson, Mich., assignor to Lockwood Ash Motor Co., Jackson, Mich., a Corporation of Michigan. Filed Dec. 14, 1925. Serial No. 75,278. 17 Claims. (Cl. 115—18.)



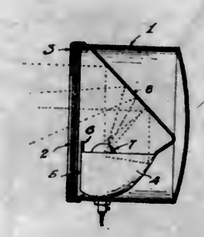
1. In an outboard motor for a boat wherein an engine is adapted to drive a propeller by a drive shaft co-extensive of a crank shaft of the engine, and wherein a drive shaft casing is supported from a boat bracket and adapted to swing rearwardly to avoid an obstacle:—a differential mechanism for constantly meshing gears in said casing, a clutch mechanism operatively arranged relative to said differential mechanism to afford normal forward boat drive for the propeller, and means adapted to simultaneously change the differential and clutch mechanism for backward boat drive for the propeller and fix said casing against a rearward swing relative to said boat bracket.

1,683,894. REPRODUCING PICTURES TRANSMITTED ELECTRICALLY. HERBERT E. IVES, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1924. Serial No. 733,464. 7 Claims. (Cl. 178—7.)



1. In a system for the transmission of pictures by electricity, means to produce picture currents, means for exposing varying portions of elemental areas of a record blank in accordance with said picture currents, and means comprising an interrupting device to stagger said elemental areas.

1,683,895. AUTOMOBILE LAMP. GEORGE F. JACOB, Evanston, Ill. Filed Mar. 17, 1927. Serial No. 176,134. 1 Claim. (Cl. 240—41.)

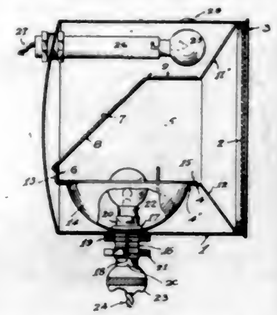


As an article of manufacture, a reflector unit formed from a single piece of metal comprising a portion of a segment of a hollow spherical body part of which is a straight wall paralleling its axis forming one of the reflecting portions of said body, and having an opening in its wall at said axis, said segment including an integral flat reflector portion extending from that edge thereof directly opposite the said straight wall and overhanging said opening, the said flat reflector portion and the said straight wall lying at opposite sides of the body.

1,683,896. HEAD LAMP FOR MOTOR VEHICLES. GEORGE F. JACOB, Evanston, Ill. Filed July 22, 1927. Serial No. 207,724. 2 Claims. (Cl. 240—41.)

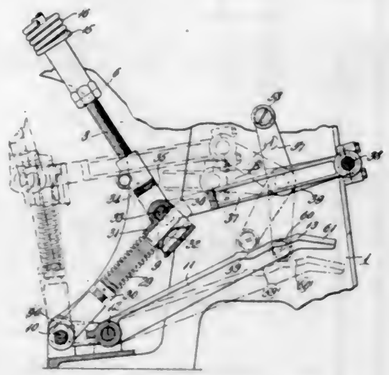
1. The combination with a casing for the head lamp of a motor car, and a flanged primary reflector and its lamp secured at the bottom of said casing arranged to direct light rays upwardly toward the top of said casing, of a secondary reflector structure of box-like form insertable in the casing including a bottom portion having an opening to receive the said primary reflector, the flange of the latter bearing upon said bottom at said opening securing said secondary reflector in place, parts of the bottom at dia-

metrically opposite sides of the opening adapted to rest upon the casing in lines paralleling the longitudinal line of said casing, thence extending away from said bottom forming opposite side portions for said secondary reflector



and terminating each in a flange disposed at an angle of substantially 45° to said bottom, and a reflector plate slidable beneath the flanges and facing at an angle the open front of said casing.

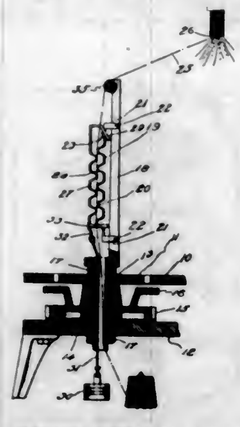
1,683,897. PRESSING MACHINE. GEORGE W. JOHNSON, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Oct. 9, 1925. Serial No. 61,502. 14 Claims. (Cl. 68—9.)



1. A pressing machine, comprising a work support, a swinging head lever carrying a cooperating pressing head, upper and lower toggle members connected to said head lever, operating means connected to the knuckle of said toggle members for straightening the same to close the press, operating means connected to the lower toggle member for elevating the same to apply power pressure, and means whereby an obstruction to the normal straightening movement of said toggle members prevents effective transmission through said toggle members of the lifting effect applied to the lower toggle member.

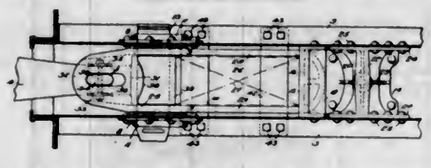
1,683,898. TENSIONING DEVICE FOR BRAIDING MACHINES. WILLIAM C. JOHNSON, Providence, R. I. Filed July 17, 1925. Serial No. 44,230. 8 Claims. (Cl. 96—3.)

1. In a braiding machine having a raceway plate with an opening therein for the passage of a warp thread, fixed warp guide post adjacent said opening and extending upward above said plate a substantial distance, a warp thread tensioning device operatively mounted on said post comprising a pair of members extending along the length of the thread to engage the same, and a weight



located below said plate and having a connection extending through said opening for applying a tensioning action to said members to more or less firmly engage the thread.

1,683,899. DRAFT RIGGING. BYERS W. KADEL, Baltimore, Md., assignor, by mesne assignments, to The Symington Company, a Corporation of Maryland. Filed May 24, 1924. Serial No. 715,645. 7 Claims. (Cl. 213—69.)



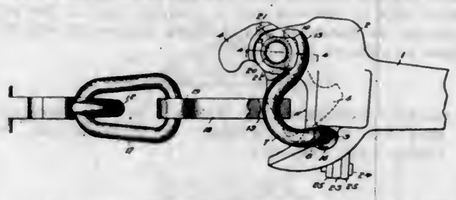
1. In a draft rigging for railway cars, the combination with cener sills, of a yoke interposed between the same, the arms of said yoke being arranged parallel with the planes of the webs of said sills, and means for connecting the forward ends of said arms, said means comprising a pair of slotted plates having their adjacent faces rearwardly and outwardly inclined.

1,683,900. SAFETY DEVICE FOR BLASTING OR EXPLOSIVE CARTRIDGES. EDMUND KAROLLUS, Vienna, Austria. Filed July 26, 1927, Serial No. 208,598, and in Austria Feb. 24, 1925. 6 Claims. (Cl. 102—11.)



1. An attachment for blasting or explosive cartridges comprising a substantially solid plug and members mounted thereon for extracting the plug from the borehole, the said members being formed to engage with the end of an extracting tool.

1,683,901. CAR-COUPLING MECHANISM. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 13, 1925. Serial No. 62,263. 10 Claims. (Cl. 213—112.)



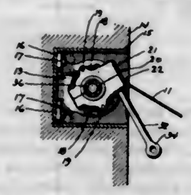
1. Car coupling mechanism comprising a coupler head, a knuckle rotatably mounted on said head, and a lock for said knuckle, in combination with means adapted to connect said coupler when the knuckle of the latter is in open position to a coupling device of a different type, said means including a member pivotally mounted on said head in spaced relation to the longitudinal axis of the latter so as to rotate on a substantially vertical axis, and means movably connected to said pivoted member for connecting the latter to the said coupling device of different type, said coupler head being provided with means for limiting forward rotation of said pivoted member.

1,683,902. POPPET-VALVE SELF-CORRECTING MEANS. HARRY R. KIESSIG, San Diego, Calif. Filed Dec. 14, 1926. Serial No. 154,702. 8 Claims. (Cl. 123—188.)



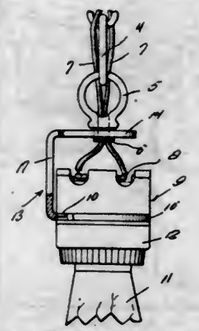
1. In combination with a poppet valve having a stem and a spring surrounding said stem, a member mounted upon said stem and having a depression in its face, said member receiving the end thrust of said spring; and means seated within and held in position by said depression for separably retaining said member upon said stem, said means having non-rotative engagement with the valve stem and with said member.

1,683,903. ADJUSTABLE AWNING FIXTURE. SIGMUND KIRSCHBERG, San Francisco, Calif. Filed Feb. 9, 1927. Serial No. 166,934. 4 Claims. (Cl. 156—44.)



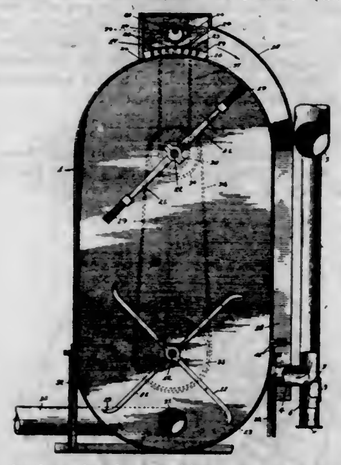
1. A device of the character described, comprising a bracket formed with a bolting portion and a plate extending at right angles thereto, a gear case pivotally mounted upon said plate independently of other means and adapted to swing in a plane parallel thereto, an awning roll extending into said gear case out of contact with said bracket, a worm gear mounted upon the roll within the case and adapted to drive the same, a worm pinion within the case and meshing with the worm gear, a shaft carrying the pinion journaled in and extending from the case, and means for adjustably setting the gear case with relation to the bracket to dispose the pinion shaft in a desired position.

1,683,904. SUSPENSION-CHAIN COUPLING. PHILLIP J. KNOBLOCK, Passaic, N. J. Filed Aug. 19, 1927. Serial No. 214,701. 1 Claim. (Cl. 240—78.)



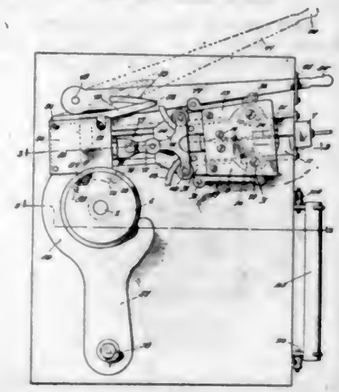
In a structure of the class described, in combination, a suspension chain, a ring carried by the chain, said ring being provided with a screw threaded neck, an electric fixture including a socket composed of separable sections, a coupling including an arm having a screw threaded hole threadedly receiving said neck, and also having a part interposed and clamped between the sections of said socket, said last named part being in the form of an annulus provided with a notch, and one of the sections of said socket being provided with a nib receivable in said notch.

1,683,905. FEATHER-CLEANING MACHINE. ROBERT W. KROBITZSCH, San Francisco, Calif., assignor to Sunset Feather Company, San Francisco, Calif. Filed June 16, 1926. Serial No. 116,410. 14 Claims. (Cl. 34—44.)



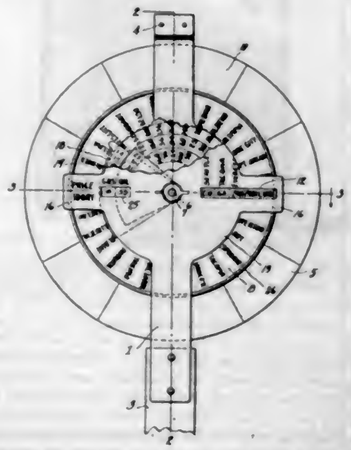
1. A feather cleaning machine comprising a chamber; a beating element mounted within the lower portion of the chamber; means for introducing feathers to be cleaned into the chamber; suction means connected to an opening formed in the top of the chamber to carry away dust and dirt separated from the feathers; a screen covering said opening; means mounted within the upper portion of the chamber for cleaning the inner side of screen to prevent the lodging of feathers therein; means mounted adjacent the outer side of the screen and operating simultaneously with the inner cleaning means for displacing feathers not removed by said inner cleaning means; and means for withdrawing the feathers from the machine.

1,683,906. WIRE-DRAWING MECHANISM. PATRICK J. MAHONEY, Sharon, Pa. Filed Aug. 27, 1925. Serial No. 52,886. 10 Claims. (Cl. 205—16.)



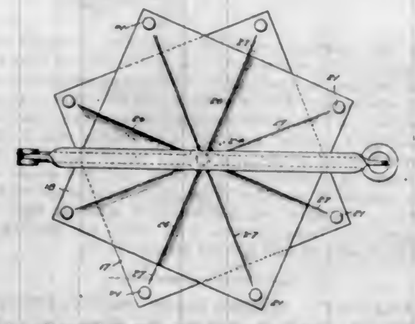
1. Wire drawing mechanism, embodying a head mounted for reciprocation, coacting gripping members carried by the said head, a member supported upon the head to move therewith and adapted to receive a movement independently thereof, means upon the head operable with relation to the gripping members to effect mutual coaction thereof to grip the wire, angle levers upon the said member, operative connection between the angle levers and the actuating means upon the head, the said levers having arcuate fingers, a draw head supported for movement with relation to the last mentioned member, and rollers upon the draw head for coaction with the said fingers to actuate the angle levers and thereby actuate the actuating means for the gripping members to effect mutual coaction thereof to grip the wire, when the draw head is moved in one direction, movement of the draw head in the opposite direction serving to render the actuating means inactive, coaction of the said rollers with the said fingers of the angle levers serving to connect the draw head with the last mentioned member to effect reciprocation of the first mentioned head when the draw head is reciprocated.

1,683,907. INDICATING DEVICE. JOHN E. MANN, Snohomish, Wash. Filed Dec. 27, 1926. Serial No. 157,183. 1 Claim. (Cl. 40—70.)



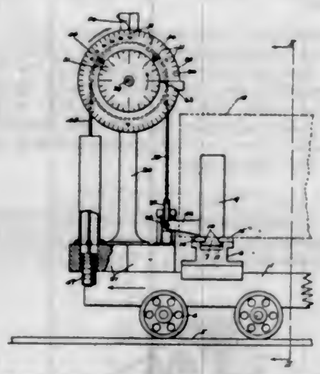
The combination with a supporting post, of an indicating device comprising spaced standards fixed at their lower ends to opposite sides of the post and joined together at their upper ends, a pivot bolt extended between the standards and disks rotatable on the pin between the standards; said standards having circularly enlarged portions concentric with respect to the pin which are provided with radially directed slots through which matter on the disks may be observed and a clamping nut on the pin whereby the standards may be drawn together to hold the disks at adjusted positions.

1,683,908. THERMOSTAT. PERRY S. MARTIN, Harrisonburg, Va. Filed Nov. 2, 1923. Serial No. 672,444. 8 Claims. (Cl. 297—12.)



1. An all-metal thermostat comprising three broad rectangular plates secured together at their corners the central plate having a lower co-efficient of expansion than the outside plates, the diagonals of the rectangles crossing each other at the center substantially at a right angle.

1,683,909. SAWYER'S INDICATOR FOR SAWMILL LOG CARRIAGES. FERN C. MAVIS and GUY B. SAMPAIR, Tacoma, Wash. Filed Aug. 19, 1926. Serial No. 130,334. 13 Claims. (Cl. 33—147.)

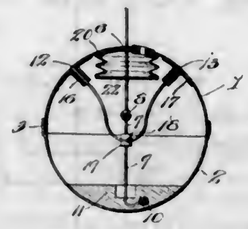


1. A sawyer's indicator for saw mill log carriages, having in combination a dial plate, a pointer carried in operative propinquity to the dial plate, a movable bed plate knee mounted on the carriage and means operatively connecting the knee to said dial for registering movement of the knee from a predetermined point.

1,683,910. COMBINED SOUNDING FIGURE TOY AND RETURN BALL. WILLIAM S. MINNIX, Washington, D. C. Filed Feb. 18, 1927. Serial No. 169,244. 4 Claims. (Cl. 46—40.)

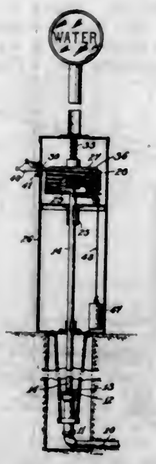
1. A toy of the return ball type including a hollow head having apertures therein, an elastic cord passed through an opening in the ball and having one end anchored within

the head, an invisible element within the head having feature simulating ends mounted for movement through said apertures, and means connecting said element to the



cord whereby the ends of the element are projected through the apertures to visible exterior position as the cord is stretched.

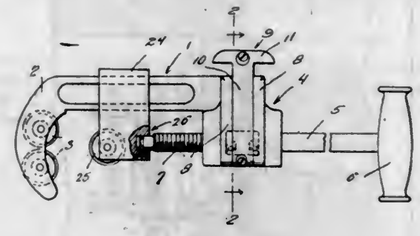
1,683,911. WATER SUPPLY FOR AUTOMOBILE RADIATORS. JOSEPH F. MORRIS, West Lafayette, Ind. Filed Mar. 25, 1926. Serial No. 97,214. 5 Claims. (Cl. 299—79.)



1. A liquid dispensing apparatus comprising a supply pipe, a flexible delivery pipe, a drum upon which said flexible pipe is wound, a rotating connection between the supply pipe and delivery pipe to permit rotation of the drum, means dependent upon drum rotation for controlling liquid delivery to the flexible delivery pipe, means for draining said supply pipe controlled by the rotation of said drum and means dependent upon drum rotation for controlling the reverse outflow from the flexible delivery pipe said means comprising a normally closed delivery nozzle and means for automatically opening said delivery nozzle when the drainage means is in active position.

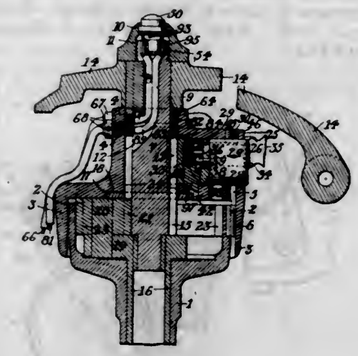
1,683,912. PIPE CUTTER. CHARLIE CARY NEBLETT, Norfolk, Va. Filed Feb. 19, 1927. Serial No. 169,489. 4 Claims. (Cl. 81192.)

1. In a tool of the class described, a shank having a jaw at one end provided with cutting means and having a head at its opposite end, said head being formed with a passage disposed in parallelism with said shank, a handle passing through said passage, a slide mounted on said shank, a cutter carried by said slide and cooperative with the first named cutting means, said handle being swivelly connected with said slide, a frame slidably



mounted upon said head, a pair of complemental relatively movable grips associated with the head and passage and engageable with said shank, and an operating connection between the frame and the grips, whereby to release the grips to facilitate adjustment of said slides.

1,683,913. VEHICLE LOCK AND SIGNALING DEVICE. ARTHUR E. PAIGE, Philadelphia, Pa. Original application filed Jan. 26, 1924, Serial No. 688,819. Divided and this application filed Dec. 29, 1924. Serial No. 758,712. 6 Claims. (Cl. 200—59.)

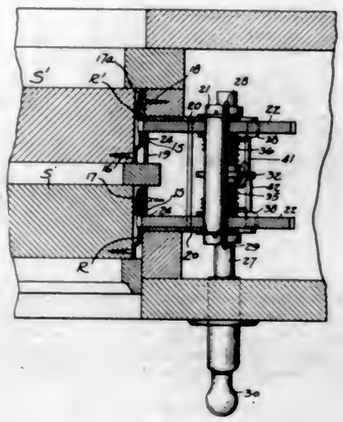


1. A vehicle steering wheel shaft for steering mechanism of the planetary gear type; having a screw thread at one end, sun gear teeth, terminating adjacent the other end and extending toward said screw thread; and having a spline key slot extending radially to the axis of said shaft and from the screw threaded end thereof and terminating between two of said gear teeth; constructed and arranged to form a seat for an electric conductor, held in position by said spline key; an electric conductor extending in said slot; and a spline key in said slot securing said conductor in position.

1,683,914. WINDOW-OPERATING MECHANISM. FRED JOHN PFIFFER, Los Angeles, Calif. Filed June 21, 1926. Serial No. 117,442. 14 Claims. (Cl. 268—132.)

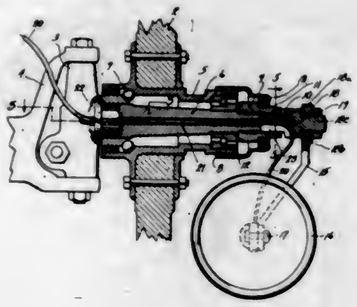
1. A window operating mechanism comprising two gear and rack means for elevating and lowering the two sliding sashes of a window, manually operable means com-

mon to both of said means for actuating either means independently of the other, and locking means for each of the gear and rack means normally acting to lock both



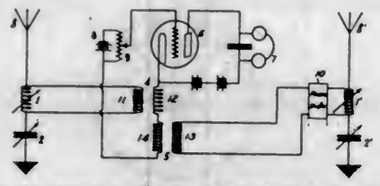
of said means and singly releasable by the manually operable means to permit actuation of the respective gear and rack means.

1,683,915. SPOTLIGHT-MOUNTING DEVICE. JOSEPH E. PRINCE and JAMES E. SCHOOLEY, Seattle, Wash. Filed Aug. 9, 1926. Serial No. 128,194. 2 Claims. (Cl. 240—8.12.)



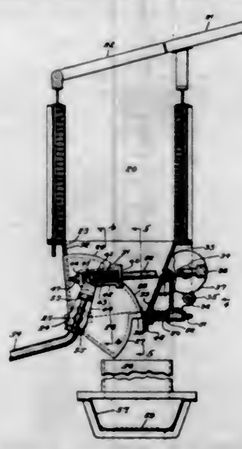
2. In a vehicle of the character described, a steering wheel spindle, a wheel revolnble on the spindle provided with a hub cap having an opening therein alined with the spindle, a nut threaded onto the outer end of the spindle for retaining the wheel and provided with a tubular extension projecting through the hub cap opening, a shank threaded into the said extension against the end of the spindle to serve as a lock for the nut; said shank having a wrench head integral therewith intermediate its ends whereby it may be threaded and tightened in the extension and having a threaded outer end, a lamp mounting bracket mounted on said outer end, a nut threaded onto said end to clamp the bracket in place against the wrench head and a spot light mounted by the bracket; said spindle being provided with a longitudinal channel and said shank having a laterally opening slot communicating therewith through which a circuit wire may be extended to the lamp.

1,683,916. INTERFERENCE-REDUCING MEANS FOR RADIO RECEIVING APPARATUS. RICHARD HOWLAND RANGER, Brooklyn, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Dec. 18, 1922. Serial No. 607,476. 10 Claims. (Cl. 250—20.)



1. In the reception of radio signals with a plurality of aerials, a common thermionic oscillation-responsive element having a control electrode and means for impressing upon said control electrode oscillations received on said aerials, the method of decreasing interference which consists in maintaining upon such control electrode a bias potential of such magnitude as to maintain said oscillation-responsive device normally inoperative by an amount slightly less than the sum of signal potentials impressed thereon from each of said aerials when such potentials are all substantially in phase.

1,683,917. APPARATUS FOR HANDLING ASHES AND OTHER MATERIALS. PETER H. RAUN, Frederick, Md., assignor to The Frederick Engineering Company, Frederick, Md., a Corporation of Maryland. Filed Jan. 10, 1923. Serial No. 611,769. 4 Claims. (Cl. 83—53.)

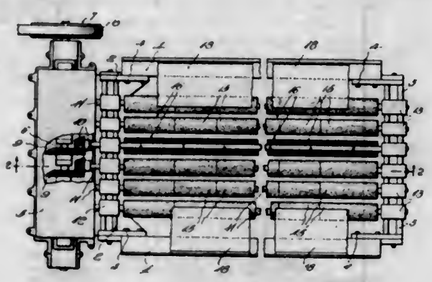


1. In a crusher mechanism, the combination with a frame, of a crusher pivotally mounted therein on an axis off center from the center line of said frame, the operative portion of said crusher comprising a plurality of alternately positioned concentric and eccentric curved surfaces, a plate pivotally mounted in said frame and a spring for yieldably supported said plate at a predetermined distance from said crusher in cooperative relation to each of said curved surfaces.

1,683,918. SEPARATING OR CLASSIFYING MACHINE. WILLIAM A. RIDDELL, Frederick, Md., assignor to The Frederick Iron & Steel Company, Frederick, Md., a Corporation of Maryland. Filed Feb. 11, 1926. Serial No. 87,656. 5 Claims. (Cl. 209—107.)

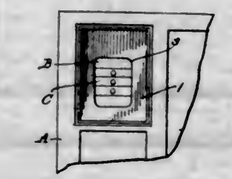
1. A separating or classifying machine comprising in combination a frame, a plurality of rotatable shaft members journaled in said frame and extending longitudinally

therein in spaced relationship, sleeve members having irregularly shaped surfaces and a plurality of wear-resisting tubular members having a plurality of independent



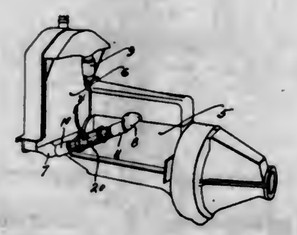
aligned sections positioned over said sleeve members for directly engaging the material which is deposited upon the classifying machine.

1,683,919. SHIELD FOR REFRIGERATING UNITS. RUDOLPH A. RIEK, Rhinelander, Wis. Filed Mar. 28, 1927. Serial No. 179,052. 5 Claims. (Cl. 62—89.)



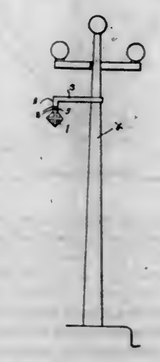
1. A shield for refrigerating units in refrigerator casings including a one-piece sheet of porcelained metal bent to provide an intermediate or shield portion and wings at the sides of said portion, there being an opening in the intermediate or shield portion for the passage of the ice tray of a refrigerating unit.

1,683,920. WATER HEATER FOR INTERNAL-COMBUSTION ENGINES. JENS E. ROHNE, Minneapolis, Minn., assignor to Even J. Rohne, Minneapolis, Minn. Filed June 21, 1926. Serial No. 117,376. 1 Claim. (Cl. 219—38.)



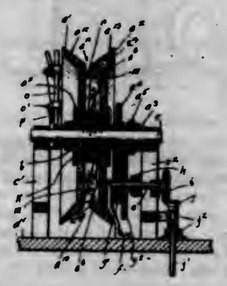
An electrical heater of the kind described comprising a coupling tube, a cylindrical heating element constructed as an entirety and telescoped onto the intermediate portion of said tube, a relatively short outer cylindrical tube surrounding said cylindrical heating element, and reducing collars telescoped with the ends of said outer tube and having reduced portions closely engaging the inner and relatively long tube, said heating element having contact pins projecting through said outer tube, the said parts being assembled as a self-contained unit adapted to be applied substantially as described.

1,683,921. STREET SIGN. JAMES G. ROSS, Seattle, Wash., assignor of forty per cent to Elsie Guyer, Seattle, Wash. Filed July 27, 1927. Serial No. 208,839. 2 Claims. (Cl. 40—145.)



1. In a device of the character described, a support including a depending arm, a sign plate having a neck bent intermediate its length to provide an offset upper portion having a shoulder at its lower end, and a tongue struck from said arm and passed through an opening in the offset upper portion of said neck to releasably retain the neck and arm in overlapped relation to each other with the lower end of the arm bearing against said shoulder.

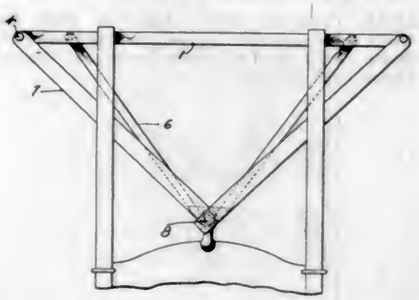
1,683,922. HAULING-IN DEVICE. CARL RUSK, Astoria, Oreg. Filed May 4, 1925. Serial No. 27,803. 3 Claims. (Cl. 64—40.)



1. In an apparatus of the character described, a shaft, a driven cable-drum rotatably mounted on said shaft, said drum consisting of two sides respectively provided with cable retaining flanges spaced to provide a cable receiving circumferential slot between them, said sides formed to provide an interior central chamber between them, a series of radially disposed clamping levers completely housed within said drum, a cam fast on said shaft within said central chamber with which cam said clamping levers are operatively connected, the interior faces of said sides being provided with means for supporting the cable portion entering said slot in position for being clamped by

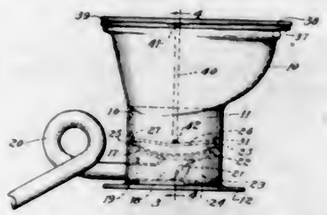
said clamping levers, and a lever fast on said shaft exterior of the drum, whereby partially to rotate said cam and thus set the action of the clamping levers relatively to a selected circumferential portion of the drum.

1,683,923. RADIUS ROD FOR MOTOR VEHICLES. LELAND M. H. SCHUMAN, Savannah, Ga. Filed May 7, 1925. Serial No. 28,766. 1 Claim. (Cl. 267—66.)



In a motor vehicle having a front axle formed with a yoke at either end adapted to receive a wheel assembly and provided with a pair of standard radius rods secured to the lower side of the axle and inwardly from the extremities thereof; a pair of divergent auxiliary radius rods respectively extending from a point in common with the standard radius rods to the extremities of the axle and to the upper side of the spindle yoke thereof, said rods being secured to the extremities of the axle by means of a spindle bolt adapted to receive and support the wheel assembly.

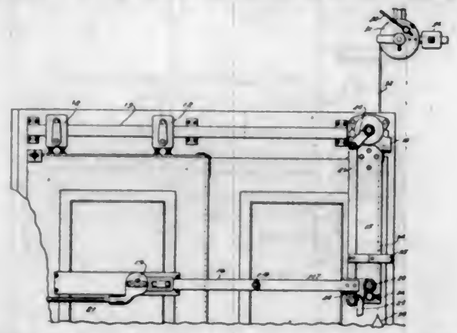
1,683,924. BOAT WATER-CLOSET. CARL SCHWARZ, Rostock, Germany, and HUGO SCHWARZ, Chicago, Ill. Filed Jan. 9, 1928, Serial No. 245,375, and in Germany Apr. 20, 1927. 16 Claims. (Cl. 4—90.)



1. A toilet embodying a bowl, a valved outlet therefor, a plunger, there being an opening through the plunger, a closure for the opening, means for reciprocating the plunger, and interengaging means on the plunger and said closure and operating automatically at predetermined times in the cycle of operation of the plunger for locking the said closure with respect to the plunger for movement with the plunger and to close the said opening therein and for releasing the closure to permit the latter to swing with respect to said plunger to uncover the opening in the plunger.

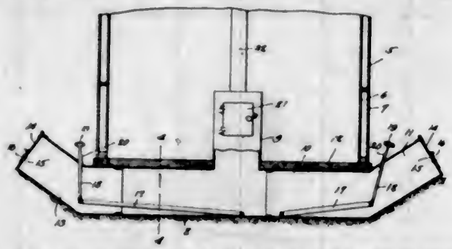
1,683,925. ELEVATOR-CONTROL APPARATUS. HAROLD W. SHONNARD, Upper Montclair, N. J., assignor to Elevator Supplies Company, Inc., Hoboken, N. J., a Corporation of New Jersey. Original application filed Feb. 9, 1926, Serial No. 86,986. Divided and this application filed Oct. 19, 1927. Serial No. 227,173. 2 Claims. (Cl. 187—31.)

1. In an elevator system, an electric switch adapted to control the operation of the car, a wheel, adjustable means connecting said wheel and switch, a weighted cable on said wheel having one end fastened thereto, means at the various floors of the elevator shaft adapted to operate the wheel and switch through said cable, and automatic means



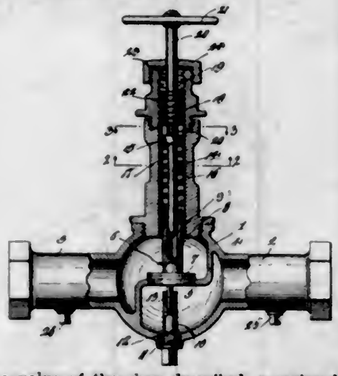
for moving the wheel and switch into safety position comprising a counterweight removably and adjustably mounted on said wheel.

1,683,926. CHICKEN BROODER. AGNES SJOSTROM, Cherokee, Iowa. Filed Jan. 31, 1928. Serial No. 250,801. 5 Claims. (Cl. 126—58.)



1. A brooder including a housing, a tubular heater under the housing and under the floor of the housing, inclined end portions forming a part of the heater, the inclined end portions having exposed outer extremities, closures for normally closing the outer extremities, grates in the heater on which the fuel is supported, and a chimney communicating with the heater for carrying fumes from the heater.

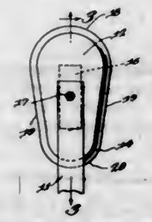
1,683,927. VALVE. JAMES O. SMITH, Kiefer, Okla., assignor of one-half to Lincoln E. Harshbarger, Kiefer, Okla. Filed Aug. 15, 1927. Serial No. 213,110. 3 Claims. (Cl. 251—145.)



2. In a valve of the class described, a casing having a valve seat therein, a valve coacting with the seat and having a hollow stem, the bore of the stem being closed at a

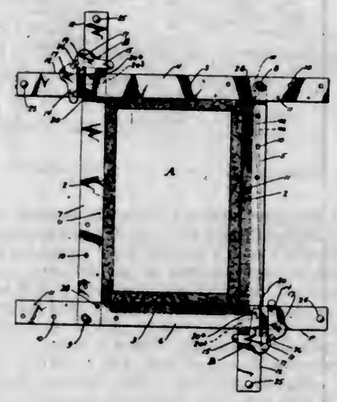
point above the head of the valve, an adjusting stem engaging at one end within the bore of the valve stem, means for adjusting the said adjusting stem longitudinally with respect to the axis of the valve stem and operable to effect engagement of the said end of the adjusting stem with the inner end of the bore of the valve stem to hold the valve positively to its seat, and a spring coacting with the adjusting stem and with the valve stem for yieldably holding the valve to its sent.

1,683,928. EAR GUARD. CORNELIUS M. SMYTH, Chicago, Ill. Filed Feb. 6, 1926, Serial No. 86,617. Renewed Feb. 8, 1928. 3 Claims. (Cl. 132—45.)



1. An ear protector of the class described including a connecting band bent to provide opposite arms normally disposed toward each other, and ear guards connected to the outer ends of the arms and including side walls formed of resilient material.

1,683,929. COLUMN CLAMP. EDWARD LEE SOULÉ, Berkeley, Calif. Filed Feb. 14, 1927. Serial No. 167,927. 7 Claims. (Cl. 144—291.)



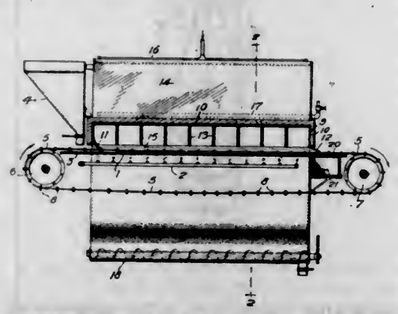
1. A clamp of the character described comprising a pair of bars, a pivotal connection at one end, and each bar being perforated adjacent the pivotal end and said perforations being so positioned that the bars will assume a position at right angles with relation to each other when the perforations register and means insertable through the perforated bars and normally maintaining the bars at right angles with relation to each other.

1,683,930. AIR-LIFT PUMP. HORACE M. STAGGS, Dallas, Tex. Filed June 30, 1927. Serial No. 202,555. 3 Claims. (Cl. 103—234.)



1. An air lift comprising a well casing, a regulator valve disposed in the casing, tubing connected to opposite sides of the valve, a packer disposed below the valve, an air delivery pipe extending downwardly from the valve in the tubing, a passage extending from the outer surface of the valve to the pipe, a closure member in said passage, means for operating said closure member, and means permitting the passage of fluid fom one tubing section to the other.

1,683,931. SUBLIMING APPARATUS. HERBERT G. STONE, Bristol, Tenn. Filed June 2, 1922. Serial No. 565,448. 8 Claims. (Cl. 23—264.)

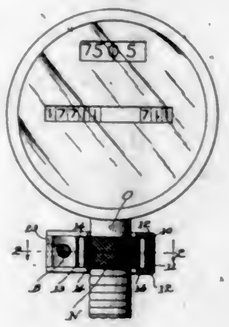


1. In a subliming apparatus, a plate-like heating member having a low lateral dam thereon, conveying and distributing means passing longitudinally thereover, regulable heating means therefor, a vapor chamber above the heating member and a condensation chamber in free lateral communication with the vapor chamber above the dam.

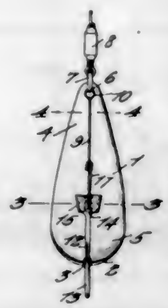
1,683,932. COMBINED LOCKING DEVICE AND SEAL. ARTHUR D. SUMMERS, Los Angeles, Calif., assignor to Speedometer Lock-Seal Company, Los Angeles, Calif. Filed Aug. 31, 1927. Serial No. 216,713. 8 Claims. (Cl. 70—122.)

1. A device of the character described comprising means adapted to be applied to a coupling nut of a speedometer shaft housing and having means by which the first means

is adapted to be supported against displacement on the nut in enclosing relation to the latter, means by which the first means is adapted to be locked on the nut, and means adapted to be interposed between the first means and the nut by which constriction and rotation of the first means will be rendered ineffective to rotate the nut, whereby unscrewing of the nut will be positively prevented.

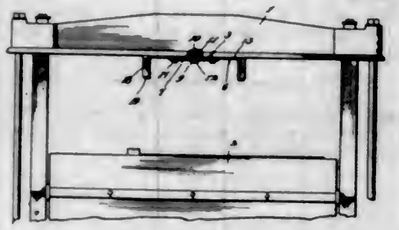


1,683,933. ARTIFICIAL BAIT. TADATAKA TESHIMA, Portland, Oreg. Filed June 1, 1927. Serial No. 195,846. 1 Claim. (Cl. 43—45.)



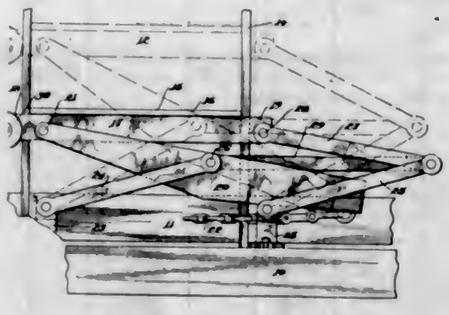
In combination with a spoon, a line connection at one end thereof, a notch formed at the opposite end thereof, a hook-receiving pocket secured to the under surface of the spoon, comprising a metal clip having its free ends bent inwardly toward each other and the edges thereof inclined to form a tapered inlet opening for the hook and a bevelled depression formed in a flange secured within the metal clip, said depression being in line with the tapered opening of the clip, said pocket being adapted to receive one end of the hook through the tapered opening in the clip and held in the depression by the inwardly bent ends of the latter with the shank of the hook disposed in said notch, and a connector between the hook and line connection, said connector having a length exceeding the distance between the line connection and hook when the latter is in the pocket and terminally formed to provide a loop with which the hook may be removably engaged.

1,683,934. CUTTING DIE. WILLIAM D. TIMMONS, Coshocton, Ohio. Filed Apr. 23, 1926. Serial No. 104,174. 3 Claims. (Cl. 164—24.)



1. A cutting die comprising a supporting plate, means for supporting the plate for rotative reversal, and blades having heads adjustably mounted upon the said plate, the lower edges of the blades constituting cutting edges and being oppositely curved.

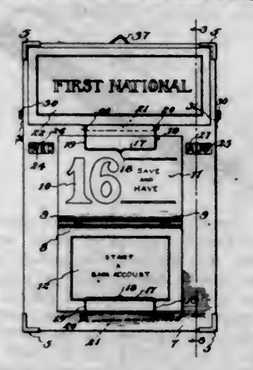
1,683,935. FOLLOWER-OPERATING MECHANISM FOR HAY PRESSES. LANCE J. TOFFELMIER, San Leandro, and CHARLES MILLER, Oakland, Calif., assignors to Junior Monarch Hay Press Company, San Leandro, Calif., a Corporation of California. Filed May 18, 1926. Serial No. 109,832. 2 Claims. (Cl. 100—3.)



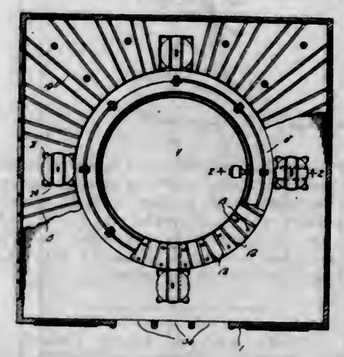
1. In a hay press having a vertically disposed chamber, a follower guided therein for vertical reciprocation, a pair of downwardly inclined parallel arms connected at their upper ends to opposite ends of the follower, a pair of parallel inclined links inclined oppositely to said arms and connected at their lower ends to the frame of the press and connected at their upper ends to said arms, a connection between said links whereby they will operate in unison, and an extension on one of said arms which may be oscillated to vertically reciprocate the follower through the medium of said arms and links, and means for adjusting the connection between the lower end of one of said links and the frame of the press to permit leveling of the follower.

1,683,936. CALENDAR. ALBERT E. WELSH, Lewiston, Idaho. Filed Sept. 29, 1927. Serial No. 222,817. 2 Claims. (Cl. 40—116.)

1. A calendar comprising a frame including strips defining a vertically extending channel having side walls and upper and lower end walls, a facing sheet carried by said frame and having an opening communicating with said channel, a roller extending transversely in said channel and having a stem journaled in the side walls and projecting from one side of the frame, a turning head carried by said stem, a pawl carried by said frame and engaging said head to yieldably resist turning of said roller, a ribbon wound upon said roller and having characters thereon displayed through the opening in said facing, a weight for the free end of said ribbon, and a guide for said ribbon extending behind the same in the channel in crossed relation to said opening.

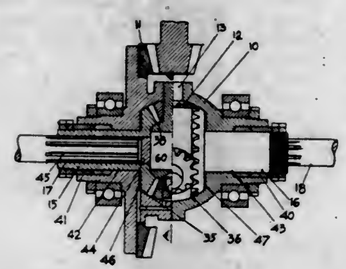


1,683,937. METHOD AND CONSTRUCTION FOR STORING MOTOR VEHICLES. EDWIN H. WHITE, New York, N. Y. Filed Mar. 18, 1927. Serial No. 176,306. 2 Claims. (Cl. 214—16.1.)



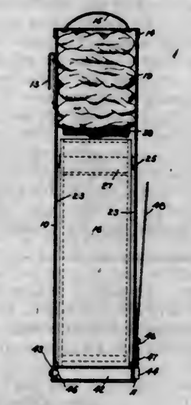
1. In a vehicle handling and storing structure, in combination, a building including a floor having a rigid central section of disk-like configuration, a rigid marginal section surrounding and disposed in a plane with said central section, said marginal section being spaced from the central section to provide an annular opening between the edges of said sections, said marginal section being provided with individual pairs of radial grooves forming vehicle runways, said runways being circumferentially spaced apart, a turn table mounted for rotation in said annular opening and disposed in a plane with said rigid floor sections and provided with circumferential grooves for reception of the vehicle wheels, an elevator including a travelling frame provided with an annular track having a depression formed therein, and a rotatably mounted platform disposed above said track and having rollers on its bottom movable on the track and receivable in said depression, said platform being provided in its top with grooves adapted to aline with the grooves in said turn table said depression being placed so that the grooves on the platform can be alined with those on the turn table.

1,683,938. DIFFERENTIAL MECHANISM. ERNEST WILDHABER and JOSEPH GSTYR, Rochester, N. Y. Filed Apr. 9, 1925. Serial No. 21,809. 4 Claims. (Cl. 74—100.)



1. A differential mechanism for self driven vehicles, comprising a driving member and two coaxial driven members, means to transmit motion from the driving member to said driven members, said means comprising planetary gears disposed to turn on their axes in exact proportion to the relative turning motion between said two driven members, means to effect fluid pressure through the mesh of said gears, and additional means operated by said fluid pressure to brake said relative motion.

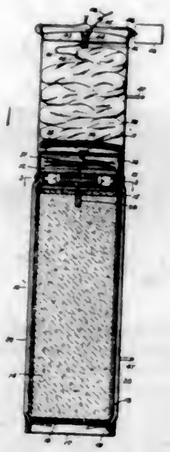
1,683,939. AEROPLANE FLARE OR SIGNAL. SAMUEL WILEY, Metuchen, N. J. Filed June 30, 1924. Serial No. 723,371. 7 Claims. (Cl. 102—24.)



1. A flare embodying a light case, an illuminant carried by the case, an apertured block within the case above the illuminant, a plug inserted in the block and spaced from the sides thereof to form a chamber, said plug formed with recesses and a communicating central passage, friction primers carried by the plug, means for firing the primers, means interposed between the illuminant and the block to protect the upper surface of the illuminant from the flame of the primers, and means for relaying the flame to the lower surface of the illuminant.

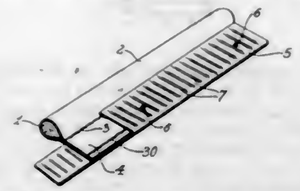
4. A releasing mechanism for flares, embodying a container, a flare within the container, a closure for the release end of the container, a spring band encircling the container and supported thereby, means carried by the band and extending through the container and the closure to hold the closure in position, means for maintaining the spring band in holding position, and means for removing the aforesaid means to enable the band to move to releasing position.

1,683,940. ILLUMINATING AERO BOMB OR FLARE. SAMUEL WILEY, Metuchen, N. J. Filed July 17, 1924. Serial No. 726,537. 10 Claims. (Cl. 102—24.1.)



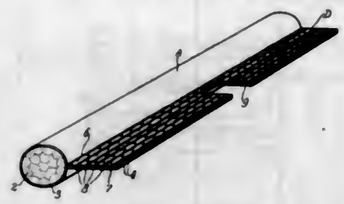
1. A flare embodying a light case, a parachute container, a partition block, means for securing the case and the container to the partition block, an illuminating composition carried in the light case, a parachute carried in the container, a folded cable for attaching the parachute to the block, a tubular member mounted transversely in the block, said tubular member formed with a centrally disposed apertured dividing wall, strikers having collars and overlapping ends reciprocably mounted in the tubular member, springs confined between the collars and dividing wall, plugs closing the ends of the tubular member, primers disposed in the plugs, quick-matches positioned on the outside of the light case and introduced into the case above and below the illuminating composition, a wire insertable through the overlapping ends of the strikers to hold the strikers against the tension of their springs, said wire being secured to the folded cable and adapted to be withdrawn from the strikers when the cable is drawn taut, a closure for the container, a frangible cord connecting the closure and the parachute and adapted to withdraw the parachute when the closure is removed, and a fusible seal for closing the light case.

1,683,941. GASKET. EDWARD J. WIRFS, St. Louis, Mo., assignor to E. J. Wirfs Organization, Incorporated, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 12, 1925. Serial No. 62,176. 4 Claims. (Cl. 20—69.)



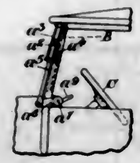
1. A gasket comprising, a roll of soft fibrous material, an envelope of flexible waterproof fabric enclosing said roll and having its free edges extended to provide a tacking lap, an inside line of stitches passing through the fabric plies along said roll and adapted to confine the same in order to provide a tight but yielding packing, and a flexible metal strip united with and extending along over said tacking lap and said line of stitches adapted to reinforce the same, said strip extending transversely of the lap on the underside, to the confining line of stitches so as to permit free movement of said roll when the gasket is in place.

1,683,942. GASKET. EDWARD J. WIRFS, Jr., Glendale, Mo., assignor to E. J. Wirfs Organization, Incorporated, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 8, 1926. Serial No. 147,077. 4 Claims. (Cl. 20—69.)



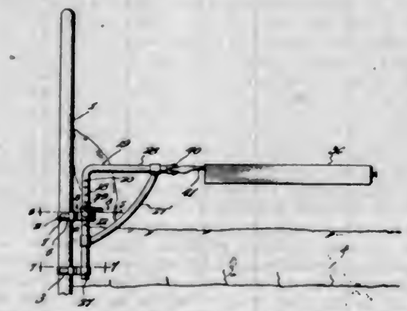
1. A gasket comprising, a roll of soft fibrous material, an envelope of flexible waterproof fabric enclosing said roll and having its free edges extended to provide a tacking lap, an inside line of stitches passing through the fabric plies along said roll and adapted to confine the same in order to provide a tight but yielding packing, a line of stitches passing through the fabric plies along the outer edge of the tacking lap in order to close the same, and means extending continuously along and securing the fabric plies closely together between the lines of stitches therethrough adapted to transversely and longitudinally reinforce the tacking lap and hold the same against buckling.

1,683,943. WIPING DEVICE FOR WIND SCREENS, WINDOWS, AND THE LIKE. JOHN WILLIAM ALLEN, Burnley, England. Filed Aug. 31, 1927, Serial No. 216,734, and in Great Britain Sept. 6, 1926. 1 Claim. (Cl. 15—251.)



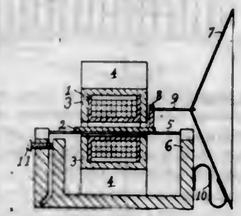
A wiper for windows comprising a wiper member extending across a window, means for guiding said member along the surface of the window, a shaft mounted for rotation parallel with said member, a plurality of arms secured to the shaft, and links connecting said arms and member, said arms working in planes at right angles to the plane of movement of the wiper.

1,683,944. TRAY. JOHN L. BALCH, Potlatch, Idaho. Filed Mar. 23, 1927. Serial No. 177,737. 2 Claims. (Cl. 45—82.)



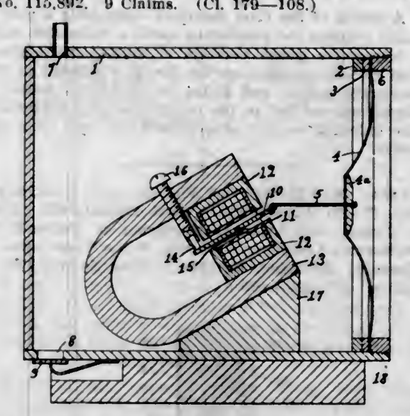
1. A device of the class described, comprising a pair of clamps for attachment to a post, and provided, respectively, with a bearing and collar, a tray supporting bracket including a vertical arm having recesses therein, said arm being rotatably engaged in the bearing and collar, a sleeve slidably adjustable on the arm, and having a web carried thereby, handles pivotally carried by the web and having projections adapted to extend through the sleeve for engaging selective recesses, said sleeve being adapted to rest upon said bearing, as and for the purpose set forth.

1,683,945. TELEPHONE RECEIVER. NATHANIEL BALDWIN, East Mill Creek, Utah. Filed Oct. 31, 1925. Serial No. 66,037. 7 Claims. (Cl. 179—119.)



5. An acoustic instrument comprising a non-helical ferrous armature, an acoustic element, means operatively connecting said armature with said acoustic element, and tension members supporting said armature and constituting a virtual fulcrum for said armature.

1,683,946. LOUD SPEAKER. NATHANIEL BALDWIN, East Mill Creek, Utah. Filed June 14, 1926. Serial No. 115,892. 9 Claims. (Cl. 179—108.)



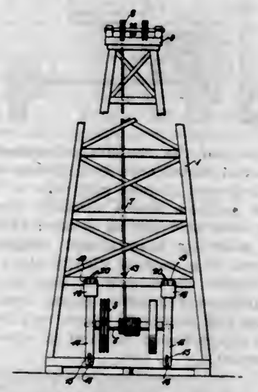
9. A loud speaker comprising a sound producing element, an electrically operated armature, and a link flexibly connected to said armature to transmit the vibration of said armature to said sound producing element, said link being disposed to said armature at an obtuse angle.

1,683,947. BRUSH FOR CLEANING ARTIFICIAL DENTURES. MARTIN J. BARCHFELD, Pittsburgh, Pa. Filed Apr. 25, 1928. Serial No. 272,800. 1 Claim. (Cl. 15—206.)



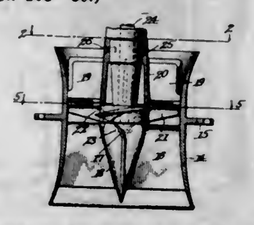
A brush for cleaning artificial dentures comprising a handle, a pair of parallel brush members consisting of bristle holders, each secured at one end to the handle and at the opposite end to the other of the bristle holders, and bristles extending radially in all directions from the bristle holders, said bristle holders being each bent at right angles at points intermediate of their ends to form straight intermediate longitudinal portions and inner and outer arms, the inner arms off-setting the handle from the straight intermediate longitudinal portions, the bristles at the inner sides of the intermediate longitudinal portions and the inner and outer arms being normally in contact, the portion of the brush members connecting the outer terminal arms being of a length less than the width of the space between the teeth at opposite sides of a plate to permit the end of the brush to move freely between the teeth and the flanges of the plate for cleaning the latter.

1,683,948. SHOCK ABSORBER FOR DRILLING RIGS. JOSEPH BECKER, Shelby, Mont., assignor, by direct and mesne assignments, of twenty-five per cent to John Nisbet and twenty-five per cent to Harry C. Woodward, Shelby, Mont. Filed Apr. 28, 1927. Serial No. 187,252. 8 Claims. (Cl. 255—7.)



1. An improved drilling rig comprising in combination a derrick, a drilling cable, a bull wheel shaft upon which the cable is adapted to be coiled, means for alternately tightening and slacking the drilling cable and means comprising independent yieldable bearings for the bull wheel shaft for absorbing shocks imparted thereto incident to the slacking of the drilling cable.

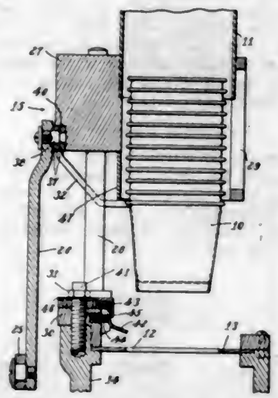
1,683,949. BRINE CIRCULATOR. JOHN G. BERGDOLL, York, Pa., assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa., a Corporation of Delaware. Filed May 20, 1927. Serial No. 193,025. 6 Claims. (Cl. 103—89.)



1. In a circulator, the combination of a housing comprising in one piece a flow directing and diffusing tube having curved diffusing vanes adjacent one end thereof, said vanes merging adjacent the longitudinal axis of the tube into a stream line hub; a plurality of guide vanes removably mounted in the other end of said tube and having a central shaft sustaining hub, there being an interval between the diffusing vanes and the guide vanes;

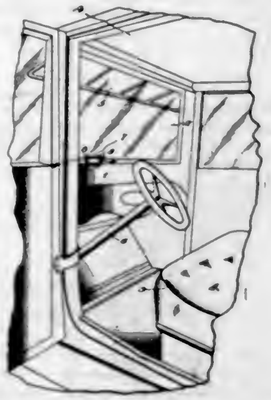
a propeller mounted in said interval and having a central hub which with the other two hubs completes a stream line body; and a rotatable shaft on which said propeller is mounted.

1,683,950. CUP DISPENSER. FRED L. BORCHERT, Rockford, Ill. Filed Oct. 22, 1926. Serial No. 143,340. 18 Claims. (Cl. 312—44.)



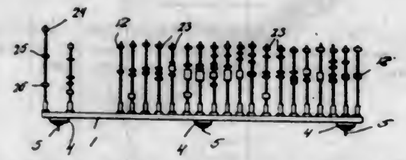
1. In a device of the character described, means to contain a stack of nested cups in a column, a support to receive cups dispensed thereto, said cups to be dispensed one at a time, gripping means normally supporting said column by its lowermost cup in elevated relation to said support, and means to operate said gripping means to lower the column to a position slightly above the support and to then release the column so that the same drops onto the support, said gripping means being thereupon operated by the last mentioned means to grip the column by the second to the lowest cup and to raise the column from said support.

1,683,951. TRAFFIC-SIGNAL OBSERVER. WILLARD C. BUTTRON, Albany, N. Y. Filed Apr. 27, 1927. Serial No. 186,999. 2 Claims. (Cl. 88—1.)



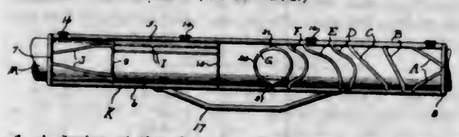
1. A traffic signal viewing device comprising an elongated prism, caps fitted tightly upon the ends of said prism, and mounting arms rigid with said caps extending downwardly therefrom and having their lower end portions curved forwardly and adapted to be firmly secured to the instrument board of a vehicle in front of the driver's seat of the vehicle whereby the prism will be supported in a horizontal position slightly above the lower edge of the windshield of the vehicle and a reflection of a traffic signal in advance of and above the vehicle may be viewed in the prism by the driver of the vehicle.

1,683,952. PHANTOGRAPH. WILSON K. CADMAN, Eureka, Kans. Filed May 17, 1926. Serial No. 109,659. 5 Claims. (Cl. 35—16.)



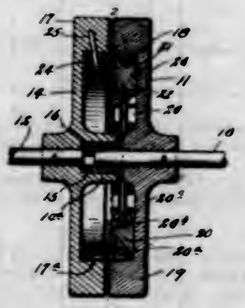
1. A device for illustrating geological data, consisting of means for suspending objects representing the data in space in a predetermined relation with a predetermined plane in accordance with a predetermined scale for each of three dimensions to form a model thereof.

1,683,953. MULTIPLE TEMPLATE. THOMAS B. CARR, Midwest, Wyo. Filed Apr. 22, 1927. Serial No. 185,847. 10 Claims. (Cl. 33—174.)



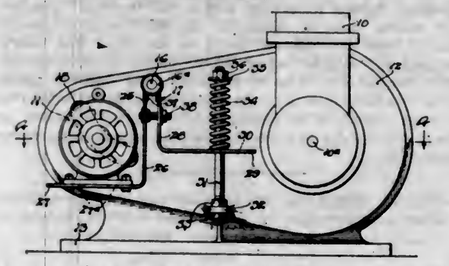
1. A device of the class described comprising a pair of template sections for positioning about a cylindrical body, and cooperative gauge members of unlike configurations carried by each template section for the producing of cuts for accurate end to end fitting of cylindrical bodies or producing an end cut to the cylindrical body conforming to the external surface of a cylindrical body of a like diameter.

1,683,954. MULTIPLE FLYWHEEL AND CENTRIFUGAL CLUTCHING MECHANISM THEREFOR. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey-Morse Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 30, 1924. Serial No. 746,776. 9 Claims. (Cl. 192—105.)



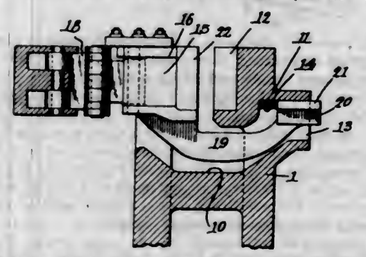
1. A fly wheel comprising in combination a fly wheel driving member provided with an inwardly presented concentrically disposed face, a driven fly wheel member, a friction band carried by said driven member and disposed in correlation with the concentrically arranged face of said driving fly wheel member, and centrifugally operable means carried by said driving fly wheel member and adapted to bear against said friction band and force it into operative engagement with the face of said driving member.

1,683,955. BELT DRIVE FOR REFRIGERATING MACHINES. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey-Morse Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 3, 1926. Serial No. 99,502. 4 Claims. (Cl. 74—43.)



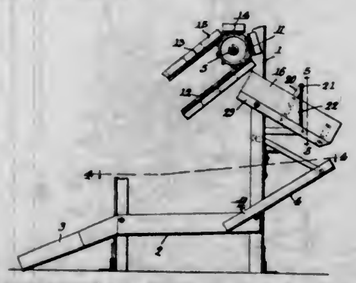
1. In a domestic refrigerating apparatus, the combination of a driven shaft, a pulley fixed on said shaft, a motor including a shaft, a pulley fixed on the latter and provided on its periphery with a series of spaced radial projections, a belt operating over said pulley and provided in its length with a series of apertures for receiving the radial projections of said motor pulley and a housing for enclosing pulleys and said belt, said housing being provided in one of its walls with openings for receiving said shafts.

1,683,956. GRIPPING SLIDE FOR FORGING MACHINES. WILLIAM L. CLOUSE, Tiffin, Ohio, assignor to The National Machinery Co., Tiffin, Ohio. Filed June 8, 1926. Serial No. 114,509. 4 Claims. (Cl. 10—22.)



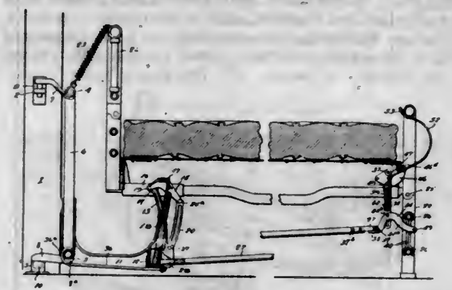
1. In a machine of the class described the combination with a bed, a heading slide, and a gripping die, of a gripping slide, an extension upon the slide projecting under the gripping die, and a bearing carried by the extension, said bearing being above the level of the extension.

1,683,957. DELIVERING MECHANISM FOR BOLT-TRIMMING MACHINES. WILLIAM L. CLOUSE, Tiffin, Ohio, assignor to The National Machinery Co., Tiffin, Ohio. Filed Nov. 13, 1926. Serial No. 148,289. 3 Claims. (Cl. 209—97.)



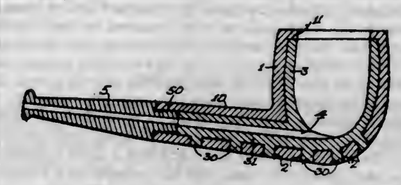
1. A separator for bolt trimming machines including an inclined longitudinally slotted trough, and a row of inert scrap retarding members within the trough and having free lower ends for free swinging movement from pressure therengainst by moving bolts.

1,683,958. FOLDING BED. FRED CONHAIM and LOUIS SWENINGSON, Cleveland, Ohio, assignors, by direct and mesne assignments, to Conhaim Patents Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 14, 1922. Serial No. 552,649. 18 Claims. (Cl. 5—320.)



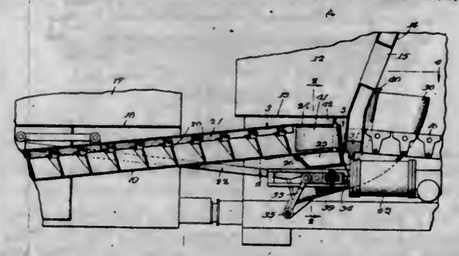
1. The combination, with a bed and means supporting the same for movement about a horizontal axis, the swinging end of the bed being provided with a pivoted lower section, of a thrust member pivoted at one end adjacent to such axis and pivotally connected at its opposite end to such lower section, a mattress-clamping arm pivotally supported intermediate of its ends from the swinging end portion of said bed, a lever connected directly to said thrust member and having a portion adapted to engage said mattress-clamping arm, and a fulcrum for said lever movably supported by the swinging end of said bed.

1,683,959. PIPE. JOHN T. COYNE, Tacoma, Wash. Filed Mar. 16, 1927. Serial No. 175,701. 1 Claim. (Cl. 131—12.)



A pipe comprising an integral enclosing shell consisting of bowl and stem sections and provided with an inwardly extending flange about the bowl mouth and holes extending through the bottom of bowl and stem, and a lining of material molded in place within said bowl and filling the holes in the bottom thereof.

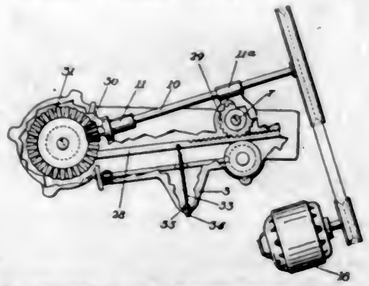
1,683,960. LOCOMOTIVE STOKER. DAVID F. CRAWFORD, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Aug. 9, 1926. Serial No. 127,983. 6 Claims. (Cl. 110—101.)



5. In a locomotive stoker, in combination, a hopper adapted to be located centrally below the cab deck, means for delivering fuel to the hopper, a pair of chutes leading laterally and downwardly from the hopper, a grate, a tubular conduit receiving from each chute and extending

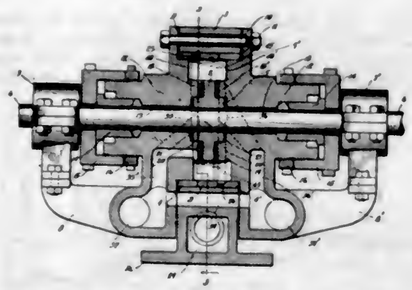
upwardly through the grate to a point above the normal level of the fire-bed thereon, means for forcing the fuel through each tubular conduit, and means for scattering the fuel as it issues from each conduit.

1,683,961. COMBINED DRIVING MECHANISM FOR WASHING MACHINES AND WRINGERS. HARRY J. CRINER, Burlington, Iowa, assignor to L. V. Kokes and E. L. Vogeltanz, Ord, Nebr. Filed Dec. 27, 1926. Serial No. 157,291. 4 Claims. (Cl. 74—14.)



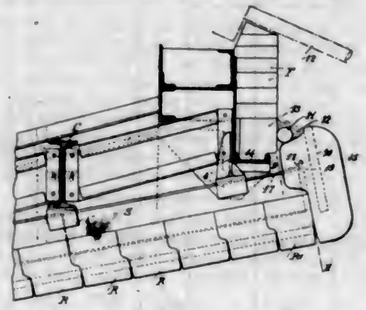
1. A combined driving mechanism for a washer and wringer comprising a tub, a housing, a drive shaft mounted thereon having one end extending into the housing and fitted with a pinion, a bevel gear mounted within the housing in mesh with the pinion, a crank pin united to the bevel gear, a vertical drive shaft mounted in the housing and extending into the tub of the washer, a spur gear mounted within the housing upon the lower end of the vertical drive shaft, a rackbar having one end pivotally mounted upon the crank pin and its opposite end mounted adjacent the spur gear, a tension spring having one end connected to the rackbar and its opposite end secured to the housing and adapted to normally hold the rackbar out of engagement with the spur gear, a cam mounted in the housing adjacent the toothed end of the rackbar and having a curved face adapted to force the rackbar into engagement with the spur gear when in one position and to permit the rackbar to be drawn away from the spur gear when in its opposite position, a manually operable shift lever extending upwardly through the housing, a rocking lever pivoted within the housing having upon one end a bead adapted to engage and operate the cam, and its opposite end united to the lower end of the manually operable shift lever.

1,683,962. PUMP. WILLIAM F. CROWN, Aberdeen, Wash., assignor of one-fourth to Victor E. Hansen, Hoquiam, Wash., and one-eighth to Harry H. Wilt, Cosmopolis, Wash. Filed Feb. 23, 1927. Serial No. 170,351. 2 Claims. (Cl. 103—139.)



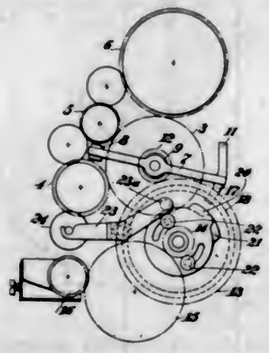
1. A pump of the character described comprising a cylindrical casing, a rotor disc revolubly fitted therein, cover plates fitted over the ends of the casing and having hub portions extended inwardly into close contact with the rotor and providing annular chambers at opposite sides of the rotor disc, said casing having a circumferentially extending outlet from each chamber, said outlets being located at diametrically opposite points, each of said cover plates being provided with an inlet that opens into the chamber at that side circumferentially of the hub portion of the plate, said inlets being located diametrically opposite the outlets of their respective chambers, said cover plates having cam surfaces formed to extend within the annular chambers and which, through extent of the inlet ports, gradually recede from the opposite faces of the rotor and which, through the angular extent of the outlet ports, gradually draw toward the faces of the rotor, and impeller plates slidably mounted in the rotor with their ends extended into annular chambers at opposite sides thereof to serve as pump pistons for the drawing in and expelling of water therefrom.

1,683,963. FURNACE ARCH. CAMILLE DUQUENNE, Paris, France. Filed Apr. 14, 1924, Serial No. 706,543, and in France Apr. 27, 1923. 4 Claims. (Cl. 110—99.)



2. In a roof for furnaces, a metal framework, a plurality of supports suspended therefrom, successive aligned sections of flanged beams carried by said supports, a plurality of refractory blocks suspended from said beams, and pivoted end blocks loosely suspended from the ends of said beams, whereby said end blocks may pivot upon their point of suspension in accordance with expansion and contraction of the beams and adjacent blocks, said end blocks bearing at one face upon the last refractory block of the roof with the joint between the end block and the fixed wall of the furnace being formed by cylindrical sections of refractory material adapted to roll loosely in the angle of the joint between said wall and block.

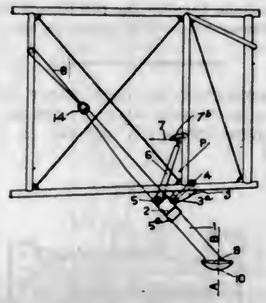
1,683,964. LINE-BY-LINE TYPEWRITING MACHINE. ARNOLD AUGUST EGLI, Klein Guemmenen, Switzerland, assignor, by mesne assignments, to Chocolat Tobler Holding Co. Aktiengesellschaft, Schaffhausen, Switzerland. Filed Oct. 18, 1924, Serial No. 744,381, and in Germany Oct. 25, 1923. 17 Claims. (Cl. 101—361.)



1. In a printing machine of the character described, an ink trough, an ink distributing device, a constant drive for keeping the said distributing device in continuous motion,

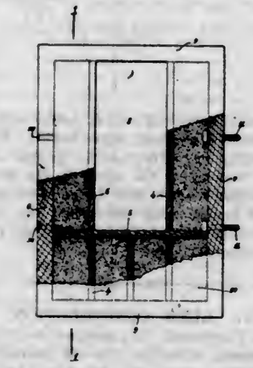
a vibrating ink supplying device supplying ink from the said trough to the said distributing device, a printing device, adapted to be thrown on by the operator for each printing operation for printing a line, and to be thrown off automatically after each printing operation of a line, and intermittent driving means for putting the said vibrating device in motion for a uniform period of time, only for each said irregularly occurring printing operation for the purpose of supplying for each printing operation an equal quantity of ink from the ink trough to the distributing device.

1,683,965. TAIL SHAFT FOR AIRCRAFT. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands, assignor to Atlantic Aircraft Corporation, Hasbrouck Heights, N. J., a Corporation of New Jersey. Filed May 5, 1925, Serial No. 28,078, and in the Netherlands May 5, 1924. 12 Claims. (Cl. 244—2.)



1. A tail-skid for aircraft cardanically suspended from the fuselage in an axially inclined position, means for connecting one end of said skid to said fuselage to yield in every direction, cam surfaces at the lower end of said skid and means for rotating said skid on its longitudinal axis to function one or the other of said surfaces to effect a lateral movement of the fuselage.

1,683,966. PORTABLE BUILDING. FRIGYES FÖRSTER, Budapest, Hungary. Filed Apr. 23, 1925, Serial No. 25,202, and in Hungary May 22, 1924. 2 Claims. (Cl. 20—2.)

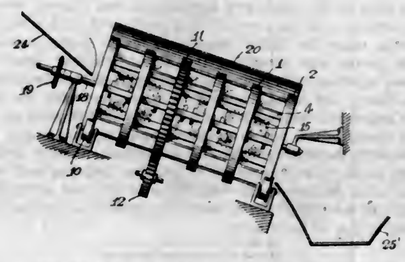


1. A wall unit for portable houses of the knock down type comprising a wooden box frame, metal sheathing completely enclosing said frame, insulating material in the interstices between the members of said frame, and means socketed in the marginal frame members for detachably connecting said unit to adjacent units.

1,683,967. METHOD OF INCREASING THE EFFICIENCY OF ZEOLITES IN THE TREATMENT OF WATER. WOLCOTT C. FOSTER, Rutherford, N. J., and ARTHUR S. GARRETT, Drexel Hill, Pa. Filed Jan. 17, 1924. Serial No. 686,934. 5 Claims. (Cl. 210—24.)

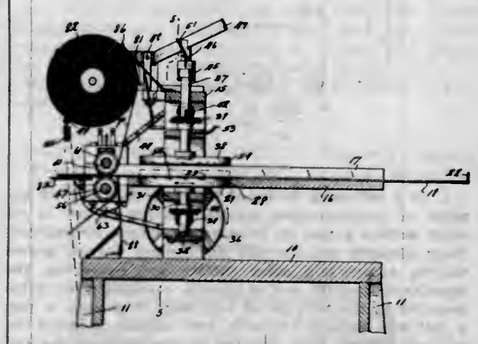
1. In water softening, the process of treating raw waters having low initial alkalinity which consists in treating the raw water with a salt which is alkaline in solution until a predetermined standard of alkalinity is reached and is subsequently filtering it through zeolite while the water still has increased alkalinity.

1,683,968. MACHINE FOR REMOVING SCALES FROM FISH. ERNEST A. GALLISON, Watertown, Mass., assignor to Bay State Fishing Company, Boston, Mass., a Corporation of Maine. Filed Feb. 19, 1927. Serial No. 169,625. 9 Claims. (Cl. 17—5.)



1. A fish scaling machine comprising a rotatable skeletonized drum, a series of internal ribs about the periphery of said skeleton drum, said ribs being spaced from each other at a distance of the order of a transverse dimension of a fish of the character to be scaled, a central brush element arranged substantially concentrically in relation to said ribs, and means for providing relative rotation between the drum and brush element.

1,683,969. MACHINE FOR PASTING BATTERY GRIDS. EDWARD A. GARLOCK, Baltimore, Md. Filed Mar. 4, 1926, Serial No. 92,286. Renewed July 17, 1928. 27 Claims. (Cl. 226—39.)



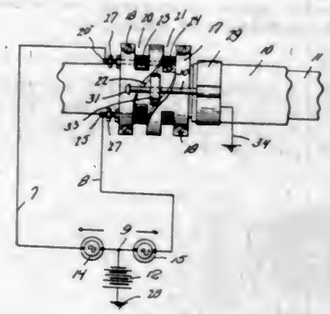
1. A battery grid pasting machine including two opposed imperforate disks, the confronting faces of the disks being provided with grooves opening upon the circumferential face of the disk, means for rotating the disks in opposite directions, and means for feeding a battery grid between said disks.

16. A machine for pasting battery grids including upper and lower disks having their confronting faces grooved, means for simultaneously rotating said disks in opposite directions, manually operable means for shifting one of said disks toward the other disk while rotating, a table

within which the fixed disk is mounted, a platen cut out to receive the battery plate and reciprocable over the face of the table to carry the battery plate into position between said disks and out of such position, manually controlled power actuated means for shifting the platen to carry the grid into position between said disks and then return the platen to its initial position, means for gripping the battery grid when in position between the disks and ejecting said grid comprising opposed rollers of yielding material, means for feeding two sheets of paper between said rollers and on each side of said grid comprising two paper rolls, the sheets of paper thereon being guided into position between said rolls.

22. A battery grid pasting machine comprising a table, a lower distributor mounted on the table with its upper face flush therewith, an upper distributor, power operated means for rotating said distributors in opposite directions, manually controlled means for shifting the upper distributor toward the lower distributor, a platen movable over the face of the table and having one end thereof recessed to receive a major portion of a grid, said grid being supported upon the table, upper and lower racks carried by said platen and extending in advance thereof, upper and lower ejecting rolls mounted in advance of the distributors, the lower roll being disposed in alignment with the table, the upper roll having a shaft and movable toward or from the lower roll, a pinion mounted upon the shaft and movable with the shaft into or out of engagement with either of said racks, power operated means for rotating said ejecting rolls, and manually controlled means for shifting the shaft of the upper roll to carry the pinion into engagement with either of said racks.

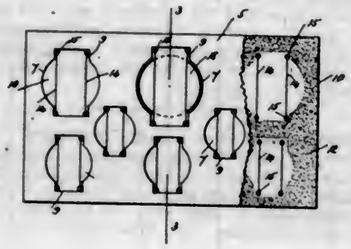
1,683,970. DIRECTION-INDICATING SWITCH MECHANISM. JOHN GEYER and JOSEPH SWITZER, Michigan City, Ind. Filed Jan. 11, 1927. Serial No. 160,480. 3 Claims. (Cl. 200—59.)



1. In a switching device of the class described, an annulus of non-conducting material having formed in its outer surface a pair of transversely spaced circumferentially disposed grooves and an inclined branch groove angling across said outer surface and connecting the opposite ends of the pair of grooves, conducting the strips mounted in the bottoms of said pair of grooves, a pin, a follower element rotatable and slidably mounted on said pin and extending into the grooves, said annulus and said pin adapted to be mounted on members one of which is rotatable with respect to the other whereby the follower element will engage either of the strips of conducting material for closing the circuits.

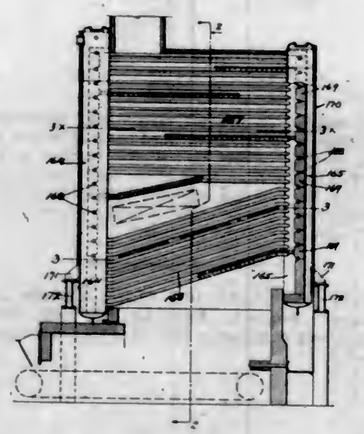
1,683,971. COIN CARD. GUST HARMOUTH, Yale, Okla. Filed June 6, 1927. Serial No. 196,755. 1 Claim. (Cl. 229—92.9.)

A coin card, comprising a relatively stiff card having substantially circular openings provided with offset recesses having parallel sides, and a relatively thin back sheet secured to one side of the card and provided with parallel slots arranged in pairs, each pair of slots being



arranged to extend between the recesses of the opening to which it pertains at a right angle to the sides of the recesses.

1,683,972. STEEPLED RADIANT-HEAT STEAM BOILER. CHARLES GILBERT HAWLEY, Chicago, Ill. Filed Mar. 12, 1924. Serial No. 698,728. 5 Claims. (Cl. 122—235.)

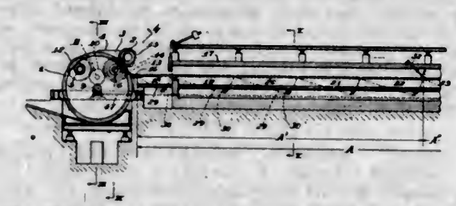


1. The herein described steam boiler unit, comprising a pair of vertical steam and water headers, in combination with a plurality of verti-planular groups of steam and water tubes connecting the upper parts of said headers and perpendicular thereto, and, fewer verti-planular groups of water and steam tubes connecting the lower parts of said headers and inclined in relation to the same and the first mentioned tubes.

1,683,973. LEER CONSTRUCTION. HERMAN S. HEICHERT, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed July 29, 1926. Serial No. 125,670. 18 Claims. (Cl. 49—3.)

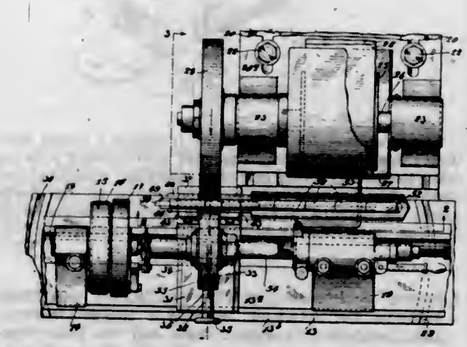
1. The combination with apparatus for intermittently rolling sheets of glass, of a roller leer comprising a high speed section which receives the sheets from the rolling apparatus, and a slow speed section following the high speed section, means for driving the rolls of the slow

speed section at a relatively low rate of peripheral speed, means for driving the rolls of the high speed section either at a rate of speed corresponding to that of the rolls in



the slow speed section, or at a much higher rate of speed, and means for shifting said rolls of the high speed section from one of said speeds to the other.

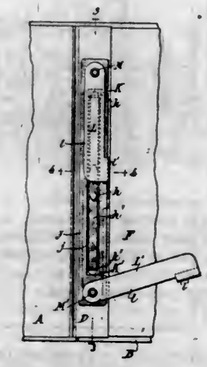
1,683,974. GRINDING APPARATUS. LEWIS R. HEIM, Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 8, 1921. Serial No. 443,390. 21 Claims. (Cl. 51—103.)



1. In apparatus of the general nature of that herein described, in combination, a grinding wheel adapted to be rotated at a relatively high speed, means for rotatably supporting and driving said grinding wheel, means adapted normally to detachably support a cylindrical work piece for rotation about a predetermined axis and to rotate said work piece relatively slowly while said grinding wheel performs a grinding operation thereon, a regulating wheel detachably supported in said work supporting and rotating means and rotated by the latter relatively slowly and in a direction to present an operative surface adjacent that of the grinding wheel traveling in a direction opposite from the direction of travel of the operative surface of said grinding wheel, thereby to form with said grinding wheel a grinding throat for receiving work of round section, and means for supporting work of round section in the grinding throat formed by and between said adjacent oppositely-moving surfaces of said two wheels, whereby said regulating wheel controls the rotation of said work of round section in said grinding throat while the grinding wheel performs a grinding operation thereon.

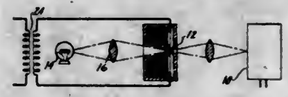
1,683,975. LOOSE-LEAF BINDER. HENRY STANLEY HORN, South Orange, N. J., assignor to W. C. Horn, Bro. & Co., Newark, N. J., a Corporation of New Jersey. Filed July 23, 1927. Serial No. 207,925. 5 Claims. (Cl. 129—25.)

1. A loose leaf binder or the like comprising a pair of connected members adapted to clamp filed papers therebetween, a flexible tongue carried by one of the members, a guard plate carried by the other member, said guard plate having a slot to receive the flexible tongue and a latching member pivotally carried by the guard plate having a part adapted to engage over the face of the



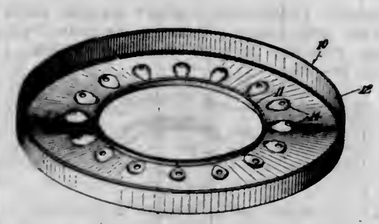
guard plate and a part to engage under the face thereof to hold the tongue against displacement after it is bent down over the guard plate, said engaging parts of the latching member being at all times out of engagement with the filed papers.

1,683,976. TRANSMISSION OF PICTURES BY ELECTRICITY. HERBERT E. IVES, Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Mar. 2, 1925. Serial No. 12,694. 7 Claims. (Cl. 178—7.)



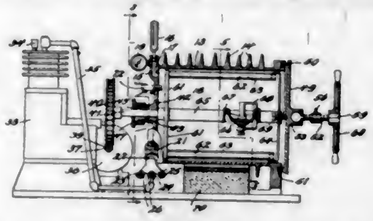
1. In a picture transmission system, a light source, a recording element, a source of alternating current, a light valve for controlling the light from said source falling upon said recording element, said light valve comprising a single string shutter element, and means for applying said alternating current to said valve to vibrate said string in the direction of movement of said recording element.

1,683,977. PROTECTIVE DEVICE. HENRY A. KEINER, Kew Gardens, N. Y. Filed Sept. 21, 1927. Serial No. 220,936. 2 Claims. (Cl. 126—215.)



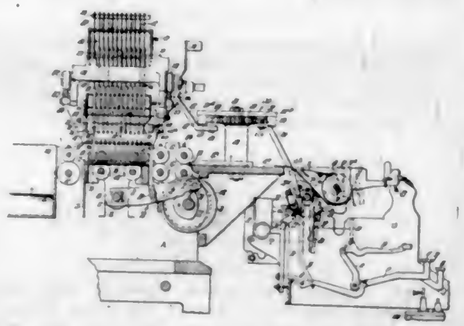
1. A device of the character described comprising a convex annular member having its inner and outer edges bent parallel to its axis, a plurality of projections upset from said member and terminating in apertures having their inner edges of greater height than their outer edges.

1,683,978. APPARATUS FOR PRODUCING DENTURES. MILTON M. KOHN, New York, N. Y. Filed July 3, 1924. Serial No. 724,155. 4 Claims. (Cl. 18—6.)



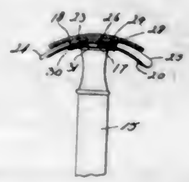
1. A device comprising a casing, a closure for said casing, means for heating said casing, an element adapted for rotation in said casing and extending longitudinally thereof, a tube for holding work adapted to fit over said element, a bearing for said tube in said closure and means for rotating said element and tube.

1,683,979. COMBINED TYPEWRITING AND CARD-PERFORATING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 7, 1925. Serial No. 48,723. 39 Claims. (Cl. 164—112.)



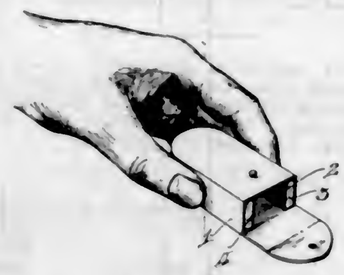
1. The combination with a set of keys or operators, of a typewriter mechanism controlled thereby and including a carriage, a perforating mechanism also controlled by said keys and also including a carriage, a driving train of mechanism mechanically connecting said carriages for simultaneous letter feed and return movements, and a single letter-feeding mechanism controlled by said keys for controlling both carriages.

1,683,980. COMBINED SAFETY RAZOR, HAIR TRIMMER, AND COMB. BERNARD KWARTIN, Philadelphia, Pa. Filed Nov. 20, 1926. Serial No. 149,593. 7 Claims. (Cl. 30—12.)



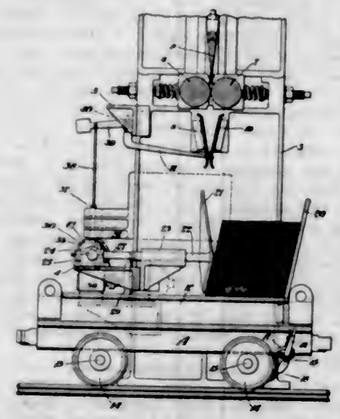
1. In a combined safety razor and hair-trimmer, in combination, a clamp of transversely curved cross section, a transversely curved guard of a transverse width greater than that of said clamp such that when said clamp and guard are assembled certain edges of the latter project beyond corresponding edges of the former, a handle for clamping said clamp and guard in assembled relation, and a multiple-edged blade arranged to be disposed either between said clamp and said guard for use as a razor, or between said handle and said guard for use as a hair-trimmer, the said edges of said clamp, in the latter instance, operating respectively as fulcrums for the cutting edges of said blade.

1,683,981. MAGNETIC SHARPENER FOR RAZOR BLADES. THOMAS G. LOVEGROVE, Philadelphia, Pa., assignor to Clara S. Lovegrove, Philadelphia, Pa. Filed July 21, 1925. Serial No. 44,906. 3 Claims. (Cl. 175—265.)



2. A sharpener for razor blades including a casing having an opening, a U-shaped magnet in the casing with its poles disposed at either side of the opening, a blade holder slidable through the opening, and means on the blade holder for holding a razor blade against transverse or longitudinal movement relatively to the blade holder.

1,683,982. APPARATUS FOR PACKING DOUBLED SHEETS AND PLATES. ARTHUR R. MCARTHUR, Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 26, 1927. Serial No. 194,514. 3 Claims. (Cl. 153—28.)



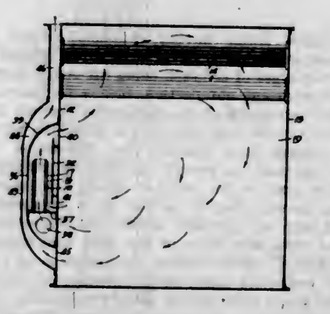
1. A doubling apparatus for sheets and plates comprising, in combination, a housing having a passageway through its lower end through which a wheeled carrier is adapted to pass, a wheeled carrier adapted to be located in said passageway, said carrier being provided with an upright head at one end to support the doubled sheets or plates delivered onto said carrier, a doubling mechanism mounted on said housing, means for receiving and guiding the doubled sheets or plates onto said carrier, a packing head reciprocably mounted on said housing, said head being adapted to be withdrawn to permit each of the doubled sheets or plates to be delivered onto said carrier and to be moved toward and engage said doubled sheets or plates after they are delivered onto said carrier, power means for reciprocating said head, and means controlled by the doubled sheets or plates as they are being delivered to said carrier for controlling the operation of said head, said head having a constant stroke and being adapted to move said carrier forwardly a distance substantially equal to the thickness of the doubled sheets or plates so as to position said carrier to receive the next doubled sheet or plate.

1,683,983. WEAVING. RONALD CRAWFORD MCILROY, Lewiston, Me., assignor to Columbia Woolen Company, a Corporation of Maine. Filed May 9, 1927. Serial No. 189,794. 2 Claims. (Cl. 139—335.)



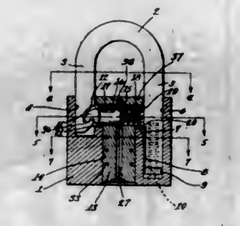
1. A series of cards for use in a Jacquard loom composed of a plurality of groups of cards each group representing one character of a series of characters, and each group being laced together in such a manner as to be interchangeable as a unit in said series relatively to the other groups.

1,683,984. DRYING SYSTEM. HARRY V. MOONEY, Seattle, Wash., and WILLIAM WESLEY HICKS, San Francisco, Calif. Filed May 3, 1926. Serial No. 106,202. 5 Claims. (Cl. 34—19.)



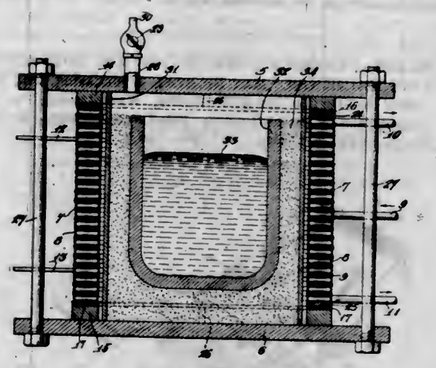
1. A drying system comprising a chamber within which articles to be dried are adapted to be placed, a source of heat associated with said chamber, means forming a flue for convection currents of air associated with said source of heat, said flue communicating with said chamber at vertically spaced points whereby the air within the chamber is circulated into contact with the articles to be dried, an intake passage communicating with said flue near the lower end of the same for introducing fresh quantities of air into the system at atmospheric pressure, and a second flue in heat absorbing relationship with said source of heat, said second flue receiving air from the lower portion of the chamber and discharging the same from the system.

1,683,985. PADLOCK. JAMES A. MUZZIO, Cleveland, Ohio, assignor to Rosa S. Muzzio, Cleveland, Ohio. Filed Jan. 2, 1923. Serial No. 610,201. 6 Claims. (Cl. 70—108.)



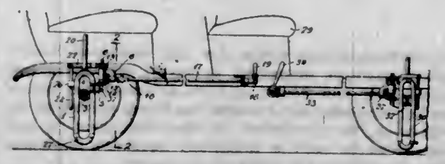
1. A padlock, comprising a body portion, a shackle movably mounted thereon, a rotatable plug, and a locking bolt rotatable with and slidably mounted on said plug for movement radially thereto, said bolt being adapted to be moved to release position by rotation of said plug.

1,683,986. INDUCTION PRESSURE OR VACUUM FURNACE. EDWIN F. NORTHRUP, near Princeton, N. J., assignor to Ajax Electrothermic Corporation, Trenton, N. J., a Corporation of New Jersey. Filed Aug. 1, 1925. Serial No. 47,594. 16 Claims. (Cl. 266—15.)



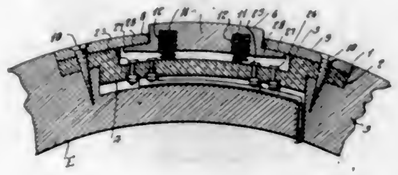
1. A furnace having top and bottom walls and an inductor side wall all vacuum-sealing against air passage, the inductor side wall comprising the sealing part of the side of the enclosure.

1,683,987. MOUNTED AUTOMOBILE JACK. GEORGE PULLETS, New York, N. Y. Filed Sept. 6, 1927. Serial No. 217,692. 7 Claims. (Cl. 254—86.)



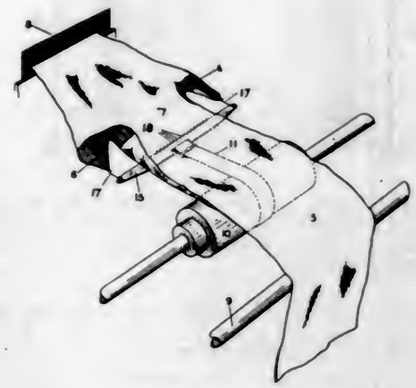
1. An automobile jack mounted on the chassis of a car, and comprising a slotted supporting frame mounted on and slidable over the axle of an automobile, a bracket fixed to the chassis and supporting a lifting screw attached to the said frame, an internally threaded sleeve adapted to engage the said screw, and means for turning the said sleeve to produce a vertical movement of the said screw.

1,683,988. DIRECTION-INDICATOR SWITCH FOR AUTOMOBILES. WALTER J. READING, Easton, Pa. Filed Oct. 29, 1926. Serial No. 144,988. 1 Claim. (Cl. 200—59.)



In a signal control device, a steering wheel having a recess therein, a hollow base of insulating material mounted in said recess, a plurality of pairs of contacts carried by and spaced along the base, a circuit closing plate having a flange extending into the hollow of the base, the inner face of the flange being beveled, recesses in said plate resilient means in the recesses between the base and the plate normally holding the latter in spaced relation with respect to the contacts, an arcuate keeper plate secured over the base and having an opening through which the outer portion of the circuit closing plate extends and confining the flange within the hollow of the base, and fastening means for securing the closing plate and the base to the steering wheel.

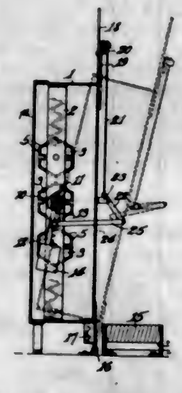
1,683,989. TENSION-TAKE-UP DEVICE FOR KNITTING MACHINES. MAX RICHTER, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Feb. 3, 1928. Serial No. 251,495. 1 Claim. (Cl. 66—149.)



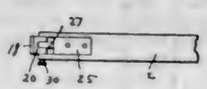
A tension take-up device for full fashioned hosiery knitting machines comprising a tension bar having heel tab engaging end hooks, and an intermediate row of empaling pins adapted to engage the instep portion of the fabric in a line determined by the engagement of said hooks so as to exert a practically equalized tensioning action throughout the width of the fabric.

1,683,990. MECHANICAL DISPLAY APPARATUS. ADOLPH M. SCHICK, Wheeling, W. Va. Filed Dec. 15, 1926. Serial No. 155,071. 2 Claims. (Cl. 40—51.)

1. In a display mechanism, a pivoted casing, rollers journaled within said casing, each roller having a plurality of inscription-bearing faces adapted to be successively exposed through the front of said casing, a ratchet carried by one of said rollers, a member pivoted upon a fixed part of the casing, a pawl carried by said member for operatively engaging said ratchet, a weight normally maintaining said member in a predetermined position relative to the casing, and electrical means whereby said casing may be rocked on its pivotal mounting relative to said weight for imparting rotary movement to said one roller, and gearing between said one roller and the other rollers whereby rotation of the former is simultaneously communicated to the latter.



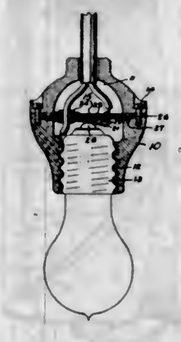
1,683,991. WINDOW-SASH CONSTRUCTION. LOUIS SCHUGERL, New Kensington, Pa., assignor of forty-eight per cent to Bruno Regali and John Regali, New Kensington, Pa. Filed Mar. 27, 1928. Serial No. 265,105. 3 Claims. (Cl. 20—49.)



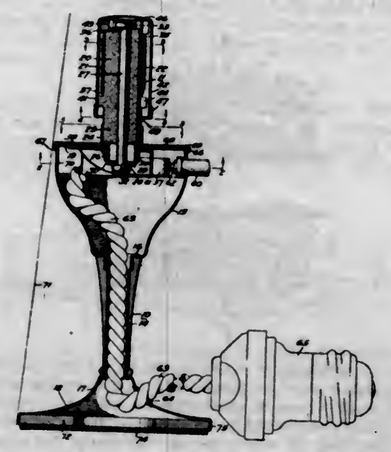
1. A window frame having channels formed in the sides thereof, a window sash for disposition in said frame, the outer side edges of the sash being cut out, a locking bar operable in each cut out portion, means for moving said locking bar outwardly of the respective channel for disposition beyond the side edge of the sash, the outwardly disposed locking bars adapted for disposition in the respective channels to permit the slidable movement of the window sash in the window frame, and means for permitting the swinging of the sash on a horizontal pivot when said bars are disposed within the respective channels in the outer side edges of the sash, said means comprising a pair of sleeves having their outer ends arranged within the respective channels in the sides of the window frame, the inner ends of the sleeves projecting through slots formed in the intermediate portions of the respective locking bars, and pintles secured at the inner ends to the opposite sides of the sash for revoluble disposition in the respective sleeves.

1,683,992. CIRCUIT INTERRUPTER AND SOCKET. MILTON H. SHOENBERG and LESTER SCHON, San Francisco, Calif.; said Schon assignor to said Shoenberg. Filed May 24, 1926. Serial No. 111,119. 9 Claims. (Cl. 200—115.5.)

5. A combined socket and circuit interrupter comprising a hollow casing, a threaded sleeve disposed in the lower end of the casing for receiving a light base, a metal disc disposed within said casing above said sleeve, a circuit interrupter mounted on said disc and offset from the center of the same, a spring strip mounted on the underside of said disc and insulated from the same, the end of said strip being adapted to be contacted by a lamp base inserted in the sleeve, said disc and strip forming the two terminals for the circuit interrupter, means for connecting a supply of current to said disc and sleeve whereby a light inserted in the sleeve will be connected in series with the interrupter element but may be further inserted to force the spring strip into contact with the disc to shunt out the circuit interrupter.

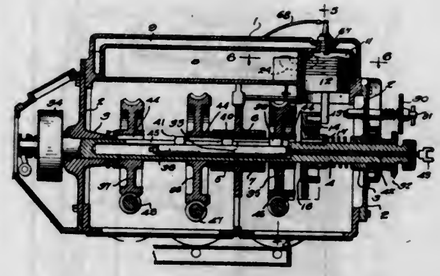


1,683,993. ELECTRICAL CIGAR LIGHTER. MILTON H. SHOENBERG and LESTER SCHON, San Francisco, Calif.; said Schon assignor to said Shoenberg. Filed Aug. 9, 1926. Serial No. 128,066. 2 Claims. (Cl. 219—32.)



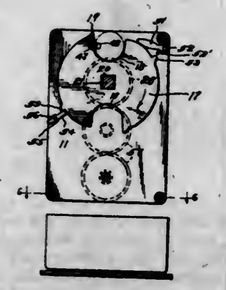
2. In a lighter of the class described, an elongated refractory core having parallel ribs spaced circumferentially about its periphery, a resistance wire wound upon said core, a cylindrical metal guard surrounding said core and wire and mounted upon the core, said guard having side walls lying adjacent to but spaced from said wires, said guard having its side walls perforated whereby air drawn thru any side of the guard will be heated by contact with said core and wire.

1,683,994. HYDROCARBON TURBINE ENGINE. WILLIAM G. SIMPSON, Ferndale, Mich. Filed Nov. 8, 1924. Serial No. 748,740. 1 Claim. (Cl. 60—41.)



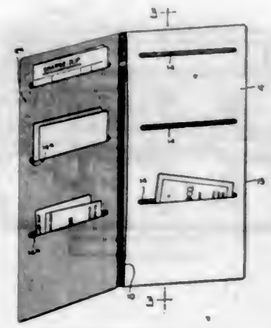
In the device of the character described, a main shaft, a cylinder arranged adjacent said shaft, a piston mounted in said cylinder and operatively connected to said shaft, a plurality of gears loosely mounted on said main shaft, auxiliary shafts carrying worm wheels meshing with said gears and adapted to drive said gears, means for connecting the desired one of said gears to said main shaft, a tank adapted to receive gases from said cylinder, and turbines mounted on said auxiliary shafts, said turbines being adapted to be connected to said tank to receive gases therefrom.

1,683,995. COIN-CONTROLLED DEVICE. GOODWIN B. SMITH, Philadelphia, Pa., assignor to The Junoform Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 27, 1921. Serial No. 464,770. 5 Claims. (Cl. 194—63.)



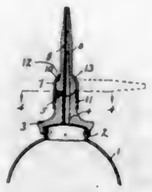
5. The combination of a flat rotary disk of uniform thickness, adapted to be exchanged for another disk suited for another size of coin, and having diametrically opposite coin receiving slots, so that when a coin drops from the slot positioned at the bottom of the disk the other slot will be at the top of the disk ready to receive the coin of the next customer, a fixed coin receiving aperture with which the slot at the top registers, separable supporting plates enclosing said disk and adapted to be attached to a vending mechanism; coin-collecting means in which coins dropping from the slot at the bottom of the disk are deposited, and means to arrest the disk at each half revolution, and for locking the disk which locking means are released by a coin in the upper slot.

1,683,996. FILING CONTAINER. WALTER A. SNOW, New York, N. Y. Filed Nov. 6, 1926. Serial No. 146,627. 3 Claims. (Cl. 129—20.)



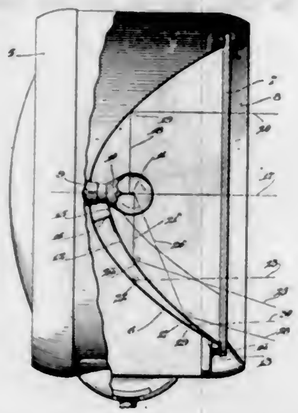
1. A container having oppositely disposed portions of sheet material secured to one another at all edges excepting one edge to provide a pocket having an opening at said one edge, one of said portions being provided with a slot extending approximately at right angles to said one edge and communicating freely and directly with the interior of said pocket.

1,683,997. OIL CAN. ANTON F. STRAFUS, Los Angeles, Calif., assignor of one-half to Luther R. McGarvin, Los Angeles, Calif. Filed Aug. 5, 1926. Serial No. 127,211. 1 Claim. (Cl. 221—56.)



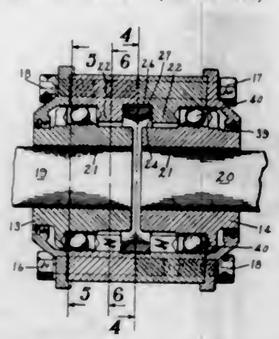
Closure means for an oil can having a discharge neck, comprising an integral member having a bore opening therethrough with one end of the integral member forming detachable engaging means adapted to engage the neck of the oil can and the opposite end of the integral member being recessed to form a semi-spherical concave-bearing seat surrounding the bore of the integral member, a spout having a spherical bearing member at its inner end with the bore of the spout opening through said spherical bearing member, the said spherical bearing member being adapted to fit snugly in the semi-spherical concave bearing seat, and a thimble adapted to be received over the spherical bearing member and forming a concave semi-spherical bearing seat adapted for snug engagement with the spherical bearing member, the integral closure member being formed with means for detachably engaging the thimble so as to retain the spherical bearing member in snug engagement in its semi-spherical concave bearing seats with the bores of the spout and integral closure member adapted for alinement or nonalinement by swinging the spout relative to the closure member, and the thimble having an arcuate slot for the projecting spout to permit said swinging of the spout.

1,683,998. HEADLIGHT. SEYMOUR SUITS, Philadelphia, Pa. Filed Apr. 6, 1927. Serial No. 181,372. 1 Claim. (Cl. 240—48.2.)



In a headlight having a paraboloidal reflector, a glass closure and a lamp, an antiglare device including a sub-reflector covering the lower portion of the reflector and of the same contour as the portion covered, a bracket attached to the upper portion of the sub-reflector for spacing it from the reflector, and a flange on the sub-reflector bolted to the closure adjacent its edge and disposed between it and the edge of the reflector.

1,683,999. FLEXIBLE SHAFT COUPLING. WILLIAM E. SYKES, Buffalo, N. Y. Filed June 7, 1926. Serial No. 114,173. 12 Claims. (Cl. 64—91.)
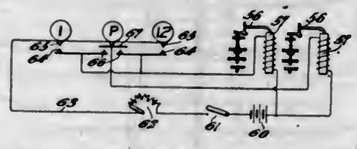


1. In a coupling for shafts or the like, a hollow casing and a hub member enclosed thereby, said casing having spaced apart depending lugs upon its internal periphery, said lugs having grooves in the side faces thereof extending inwardly from the outer end of said casing the greater part of the length thereof, the remaining portion of said lugs forming closure members for said grooves, said hub member having spaced apart outwardly extending lugs upon its periphery, said hub member lugs being adapted to enter the spaces between the lugs of said casing and having grooves in the side faces and open at the inner end thereof and extending outwardly from the inner end thereof the greater part of the length thereof, the remaining portions of said lugs forming closure members for said grooves, and a rotatable member interposed between the opposing sides of said lugs within the grooves therein.

1,684,000. MATCH. GEORGE A. TAYLOR, Boston, Mass. Filed Aug. 4, 1927. Serial No. 210,675. 9 Claims. (Cl. 44—44.)



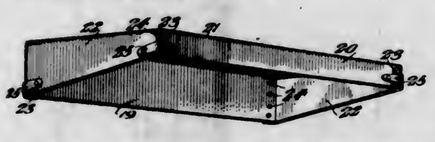
1. A match having a splint portion provided with a metallic reinforce.

1,684,001. ALPHABETICAL KEYBOARD PUNCH. ALFRED WEILAND, Neshanic, N. J.; HAROLD R. RUSSELL, Douglaston, N. Y.; and CHARLES A. METZGER, New Brunswick, N. J., assignors, by mesne assignments, to Remington-Rand Inc., New York, N. Y., a Corporation of Delaware. Filed July 28, 1925. Serial No. 46,583. 4 Claims. (Cl. 164—113.)



1. In a card perforating machine, the combination of a keyboard mounted on the machine, a punching mechanism including a plurality of rows of punches, each row corresponding to a column of a record card and having a less number of punches than there are keys on said keyboard, set-up bars for the respective punches, a selecting device arranged to travel across said set-up mechanism, automatic means for successively feeding cards to said punching mechanism, means actuated by any one of a group of said keys for causing said selecting device to set two set-up bars predetermined by the keys operated, and means actuated by any one of another group of keys for causing said selecting device to set one-set-up bar predetermined by the key operated.

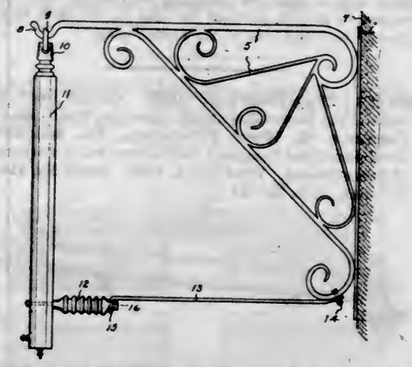
1,684,002. TOOL BOX FOR AUTOMOBILES. WILLIAM WALLACE WHITE, Kennett Square, Pa., assignor to Standard Fibre Company, Kennett Square, Pa., a Corporation of Delaware. Filed June 8, 1926. Serial No. 114,395. 2 Claims. (Cl. 206—16.)



1. In a tool box, in combination a receptacle portion consisting of a bottom and front, rear and side walls the front wall being appreciably higher than the rear wall and the top edges of the side walls inclining from the front to said rear wall, a longitudinally extended, vertical partition arranged at an inclination with respect to the said front and rear walls fixed at one end to an end wall of the box and having the other end thereof spaced from the opposite end wall of the box, means for securing said parts together, and a cover for said receptacle portion.

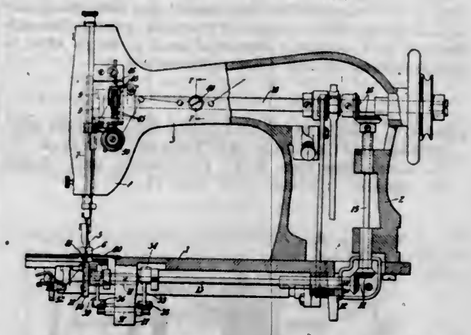
1,684,003. RADIOANTENNA. MCKAY WRIGHT, Seattle, Wash. Filed Sept. 16, 1926. Serial No. 135,836. 4 Claims. (Cl. 250—33.)

1. A radio receiving antenna embodying a piece of insulated copper pipe having relatively heavy walls and supported in insulated relation in a vertical position, a condenser disposed within the lower end of said pipe means in said pipe above said condenser for supporting the condenser and electrically connecting one terminal of the same to said pipe, an insulator member forming a closure for the bottom



end of said pipe and having a terminal post extending therethrough for connecting the other terminal of said condenser with a receiving instrument and another binding post connected directly with the bottom end of said pipe.

1,684,004. CHAIN-STITCH SEWING MACHINE. RUDOLPH BECKER, North Plainfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Sept. 27, 1926. Serial No. 137,863. 12 Claims. (Cl. 112—199.)



1. In a sewing machine, in combination, feeding mechanism, a reciprocating needle, a loop-taker adapted to seize and detain a needle-loop and to cooperate with the feeding mechanism to move the detained needle-loop out of the needle-path, and means separate from said loop-taker for passing a loop of under thread through the detained needle-loop for entry by the descending needle.

1,684,005. CIGARETTE HOLDER. CHARLES MORTON BELLAK, New York, N. Y. Filed June 2, 1927. Serial No. 195,887. 4 Claims. (Cl. 131—10.)



1. A cigarette holder having a cigarette receiving slotted shell arranged within the cigarette receiving end of the holder formed separately from said cigarette holder and fitted with an ejector device comprising a portion extending to the outside of the holder through the front face of the

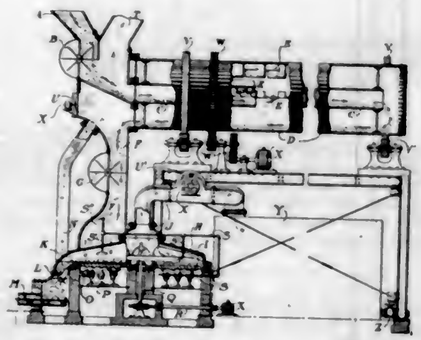
tip of the cigarette holder and formed to support the holder when laid upon a surface such as a table, the body of said ejector device being positioned between said slotted shell and the inner surface of the forward end of the cigarette holder, and a cigarette engaging portion of said ejector arranged to project through the slot in the shell into the cigarette receiving bore of the slotted shell.

1,684,006. TREATMENT OF ORES. QUINCY BENT, Bethlehem, Pa.; EDWIN BARNHART, Sparrows Point, Md.; and FREDERICK W. WOOD, Philadelphia, Pa., assignors to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Oct. 4, 1920. Serial No. 414,705. 7 Claims. (Cl. 75—73.)



1. A process for rendering wet ores of plastic character suitable for a subsequent furnacing operation which consists in, feeding the ore into the cool end of an internally and longitudinally ribbed rotary kiln, whereby the plastic ore mass may be divided into a plurality of integral masses disposed longitudinally of the kiln, said kiln having its axis inclined to the horizontal and being rotated so as to carry the masses to a point at which they may become gravimetrically detached and fall downwardly and forwardly in the kiln, causing said detached masses to be individually carried upward and dropped forwardly in the kiln by the continued rotation of the latter, whereby the ore may be formed into masses of the size desired and submitting said masses during their downward tumbling passage through the kiln to a moderate degree of heat so as to effect a partial removal of their contained moisture.

1,684,007. METHOD OF TREATING OIL SHALES AND OTHER BITUMINOUS MATERIALS. WILLIAM W. BLAISDELL, New York, N. Y. Filed May 3, 1923. Serial No. 636,410. 1 Claim. (Cl. 202—16.)



The method of treating shale or other bituminous material, which consists in initially preheating the material to a point somewhat below the point at which the hydrocarbon vapors are formed and in subsequently superheating the material to the point at which said hydrocarbon vapors are formed, the preheating and superheating steps being carried out in separate chambers, and the heat of the exhaust gases from the superheating chamber being used to heat the material in the preheating chamber, in passing the material from the preheating to the superheating chamber, in preventing the escape of vapor during such passage, in reducing the temperature of the heat of the exhaust gases preliminary to its delivery to the pre-heated chamber by introducing atmospheric air in the gases, in mechanically agitating the material in the preheater chamber during treatment, in removing the spent material from the superheater chamber, and in condensing the hydrocarbon vapors.

1,684,008. ROD RACK. JOHN G. BOUSLOG, Anaheim, Calif. Filed Nov. 1, 1924. Serial No. 747,260. 10 Claims. (Cl. 211—115.)



1. Suspension means for sucker rods having coupling collars comprising a support having a recess, a retaining member, and a flexible connection between the support and retaining member, the recess of the support being adapted for lateral reception of a sucker rod with the walls of the recess engaged by the coupling coller of the sucker rod so as to support the rod against longitudinal displacement independently of the retaining member, and the retaining member being adapted to be removably received around a sucker rod supported in the recess so as to prevent transverse displacement of the rod.

1,684,009. ANTENNA. HAROLD M. BROWN, Elmhurst, Ill. Filed May 29, 1926. Serial No. 112,508. 3 Claims. (Cl. 250—33.)



1. A radio antenna comprising a staff with a bore, and insulated wire continuously wound around said staff to

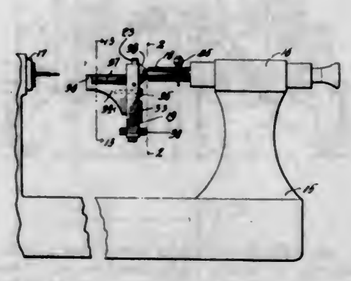
chiefly cover the same and partly extending through the walls thereof and through said bore to one end of the staff and being arranged for connection with a radio receiving wire.

1,684,010. RAILWAY-CAR CONSTRUCTION. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 18, 1925. Serial No. 31,144. 5 Claims. (Cl. 105—14.)



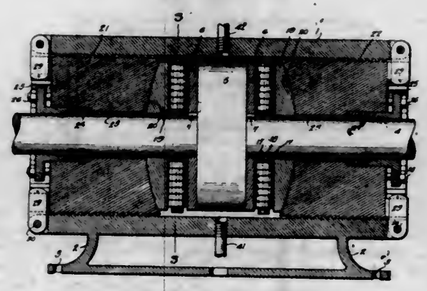
1. In a car wall element including a panel of sheet metal, said panel being strengthened within its margins by embossments defining intelligible indicatory characters and a rectangular embossment disposed outwardly of said first named embossments, said rectangular embossment being disposed inwardly of the edges of the sheets and provided with extensions adapted to continue the reinforcement beyond the main portion of said rectangular embossment.

1,684,011. FILING FIXTURE. ALBERT J. CICHON, San Antonio, Tex. Filed Apr. 7, 1925. Serial No. 21,416. 2 Claims. (Cl. 82—34.)



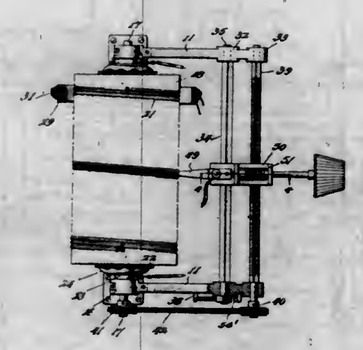
1. A file supporting attachment for lathes comprising a supporting member, means carried by the member for attachment to the tail stock of the lathe and arranged to support the said supporting member in vertical position and in a plane at right angles to the axis of the tail stock, a plate mounted upon the said supporting member for vertical adjustment thereon, a screw vertically mounted upon the plate and having threaded engagement with the supporting member whereby to effect vertical adjustment of the plate in the rotative adjustment of the the screw, brackets extending forwardly in spaced relation to each other from the face of the plate, and rollers rotatably mounted in horizontal position at the upper sides of the brackets to support a file.

1,684,012. THRUST BEARING. ROBERT L. DENNISON, New York, N. Y. Filed Dec. 17, 1924. Serial No. 756,573. 3 Claims. (Cl. 308—234.)



1. A thrust bearing comprising an outer frame adapted to surround a shaft, a revolving member keyed to said shaft, a bearing cage arranged adjacent said member, a stationary member surrounding said shaft and arranged on the opposite side of said bearing cage, a filler member adjustably mounted in said frame on the opposite side of said stationary member, said frame being internally threaded, said filler member being provided with external threads adapted to engage said internal threads to permit adjustment of said filler member, the outer face of said filler member being provided with a plurality of pairs of spaced projections forming grooves therebetween, and said onter frame being provided with hinged locking members adapted to be received in said grooves.

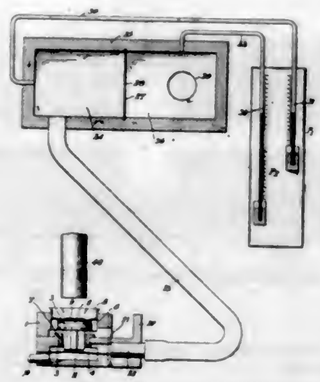
1,684,013. VARIABLE INDUCTANCE. JAMES C. DE PUE, San Antonio, Tex., assignor of one-half to Charles A. Meyer, San Antonio, Tex. Filed Oct. 14, 1926. Serial No. 141,570. 7 Claims. (Cl. 171—119.)



1. A variable inductance including a rotatable coil, a contact to coact therewith and movable laterally to follow the turns of said coil, means for feeding the contact

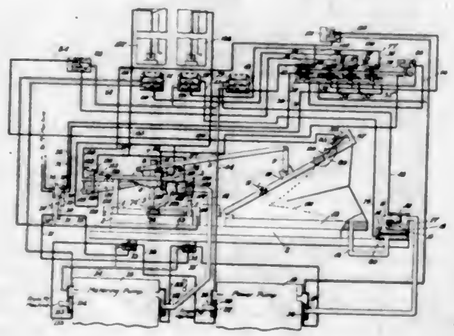
laterally, and means for actuating said feeding means and rotating the coil in timed relation to each other, said contact being releasable from its feeding means and slidable longitudinally of the coil to effect quick adjustment of the contact.

1,684,014. METHOD OF ADJUSTING VALVE THROW. BOYD DUDLEY, Jr., Syracuse, N. Y., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed July 10, 1924. Serial No. 725,312. 4 Claims. (Cl. 73—151.)



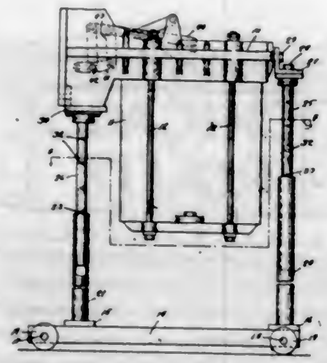
1. The method of adjusting valve throw which includes comparing the flow of fluid through a port controlled by said valve with the flow of the same fluid through an orifice of fixed area and adjusting the effective opening between said port and valve to cause the flow through said port and said orifice to assume a predetermined relationship.

1,684,015. APPARATUS FOR ADJUSTING VALVE THROW. BOYD DUDLEY, Jr., Syracuse, N. Y., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed July 10, 1924, Serial No. 725,313. Renewed Mar. 20, 1928. 16 Claims. (Cl. 73—151.)



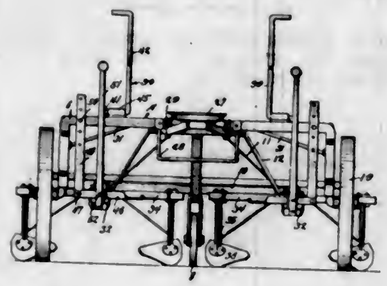
1. In a machine for adjusting valve throw in pneumatic valve actions, in combination, a press, means to actuate said press, and means controlled by the rate of flow of air through said valve action for controlling said actuating means.

1,684,016. ELECTRIC SWITCH. WILLIAM N. DUNN, Medford, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Masschusetts. Filed Nov. 16, 1922. Serial No. 601,256. 9 Claims. (Cl. 200—150.)



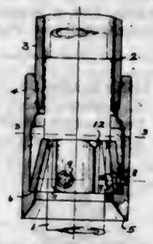
3. An electric switch having a switch frame provided with depending guide-extensions, and a carriage disposed beneath said frame having upwardly-extended tubular guide-members in which said guide-extensions are slidably received.

1,684,017. POTATO HILLER. JOSEPH E. DURKPO, Presque Isle, Me. Filed Mar. 5, 1927. Serial No. 173,114. 3 Claims. (Cl. 97—237.)



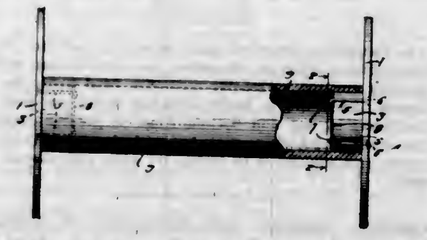
1. An agricultural implement comprising a main frame, longitudinally extending implement beams connected at their forward terminals to the frame for swinging movement in a horizontal and in a vertical plane, transverse implement beams secured to the longitudinal beams, blades connected with said transverse beams, foot pedals arranged on opposite sides of the frame rockably connected with the frame at their outer ends and with the beams at a point intermediate their ends, whereby upon downward movement of the pedals, the blades will be urged into contact with the ground.

1,684,018. PIPE PULLER. CHARLES R. EDWARDS, Houston, Tex. Filed Jan. 17, 1921, Serial No. 437,970. Renewed Jan. 30, 1928. 16 Claims. (Cl. 294—90.)



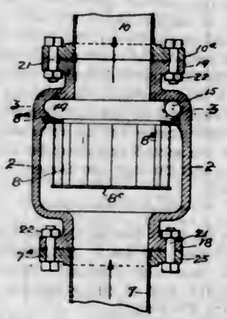
14. An overshot pipe puller including a casing and having a pipe engaging dog pivoted therein near its lower end and having an upper free end movable radially and circumferentially relative to the casing.

1,684,019. SPOOL. PRESTON J. FARLEY, Califon, N. J. Filed Sept. 14, 1927. Serial No. 219,506. 2 Claims. (Cl. 242—124.)



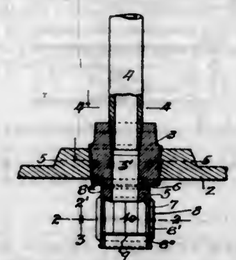
1. A spool of the type described, comprising a tubular barrel, a pair of heads mounted on each end of the barrel, these heads comprising a disc and a stub cylinder, nails driven through the disc and in contact with the outer surface of the stub cylinder, a metal ring resting on the free end of the stub cylinder, the nails having their ends bent to engage over the aforesaid metal ring to securely hold the stub cylinder to the disc.

1,684,020. CENTRIFUGAL FIXTURE. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1925. Serial No. 27,833. 4 Claims. (Cl. 183—87.)



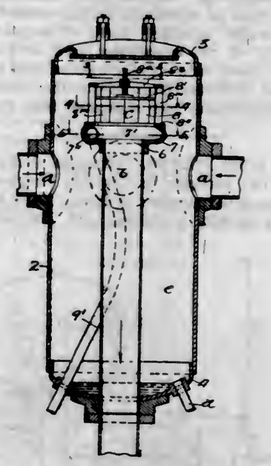
1. A centrifugal fluid purifying device, comprising, in combination, a casing, a hollow ring member therein and an internally smaller coaxial tuyère ring portion secured within said casing in the process of casting the casing, and adapted to whirlingly direct the fluid into and through said member, said hollow member having a still smaller central outlet axially remote from said tuyère portion and also having a peripheral discharge nozzle.

1,684,021. SEPARATOR. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1925. Serial No. 27,843. 3 Claims. (Cl. 183—87.)



1. A reducer plug adapted to receive the offtake from a drum or conduit and containing an axial outlet passage, the inner end of said plug being reduced in diameter and shouldered concentrically with said axial passage, in combination with a tangentially tuyèred barrel having one end attached to and partially closed by the reduced shouldered end of said plug, the external diameter of said barrel being slightly less than the diameter of the body of said plug, and the inner diameter of said barrel being so much greater than that of the said passage as to present an annular abutment, and, a disc-like member closing the free end of said barrel.

1,684,022. RECEIVER SEPARATOR. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1925. Serial No. 27,848. 2 Claims. (Cl. 183—82.)

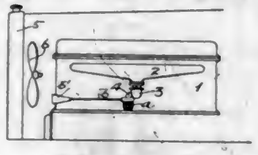


1. The herein described separator comprising a vertical drum having an inlet in its upper part, in combination with an outlet pipe leading from the upper part of the drum, a volumetrically adjustable and self-contained centrifugal separating unit fixed on the top of said pipe and forming the avenue through which the fluid must pass to reach said pipe.

1,684,023. AUTOMOBILE AIR CLEANER. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1925. Serial No. 27,855. 3 Claims. (Cl. 183—83.)

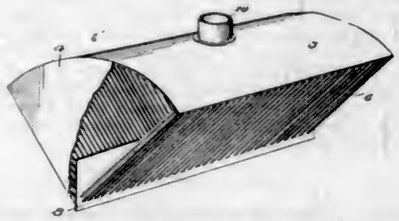
1. An air cleaner for internal combustion automotive engines, and the like, comprising a centrifugal dust sepa-

rator for association with the engine intake, and having at one end a tangential peripheral dust outlet, in combination with means for maintaining an auxiliary movement



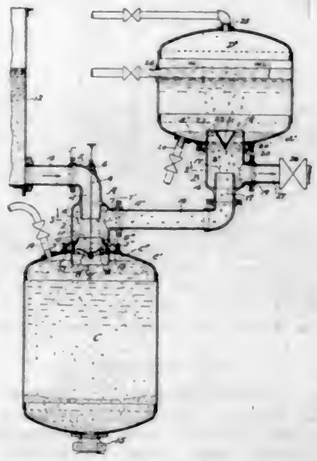
of an ejector fluid first into said end of the separator and thence into said outlet and in the direction of the dust discharge.

1,684,024. STEAM PURIFIER. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 4, 1925. Serial No. 73,278. 2 Claims. (Cl. 122—491.)



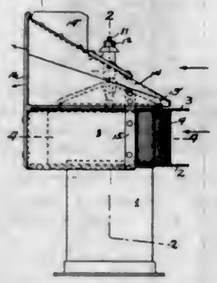
1. An apparatus of the class described comprising, in combination, a top, a purified fluid conduit leading from said top, downwardly inclined sides composed each of a plurality of rows of outwardly facing channel members, a central vertically arranged plate or member extending longitudinally of the apparatus, said channel members having their lower ends opening against said plate for discharging and directing downwardly the water and other impurities which have been separated from the fluid.

1,684,025. LINE FILTER. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 9, 1926. Serial No. 93,462. 4 Claims. (Cl. 210—51.)



1. The improvement herein described, comprising a generally cylindrical and longitudinally extended head, closed at one end and open at the other, in combination with a direction pipe substantially coaxial with said head and extending inward through the closed end thereof, an outlet extending from the side of said head, laterally opposite the inner end of said pipe, and, a flange upon the exterior of said head, for its attachment to a drum or pocket.

1,684,026. ROOF VENTILATOR. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 6, 1927. Serial No. 238,041. 2 Claims. (Cl. 98—68.)



1. The herein described draft inducing ventilator device comprising a tubular extension, in combination with a multiply tuyèred barrel-like structure fixed upon the top thereof, containing a larger opening in its top and distinguished by top and bottom rings of greater diameter than itself, and a pressure air box enclosing one side of said tuyère and supported to swing its open end toward the wind.

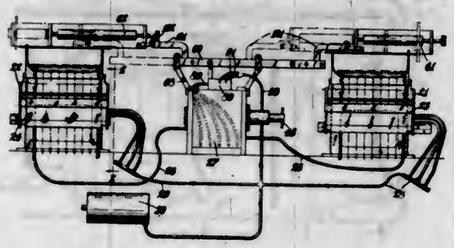
1,684,027. SCREEN FOR WINDOWS OF AUTOMOBILES. LAURA B. HINMAN, Syracuse, N. Y. Filed Aug. 5, 1927. Serial No. 210,977. 1 Claim. (Cl. 150—14.)



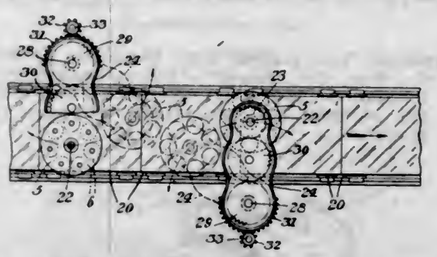
An automobile screen, including a screen covered frame having an opening, a second frame in the opening having a U-channel facing outwardly and receiving the edges of the screen covering which define said opening therein, the top side of the frame having spaced extensions which are bent downwardly to engage the outer side of the channel and are then rolled upwardly and inwardly to engage said downwardly bent part of the extension to form a plurality of loops, a door for the opening having a frame formed of U-channels which face inwardly, a covering for the door having its edges received in the last named channels, the top side of the door frame having cut-away parts to receive the loops of the second frame, and a pintle extending through the loops and through the channel of the top side of the door frame.

1,684,028. CODING AND DECODING APPARATUS AND CODE-CHANGING DEVICE THEREFOR. SIDNEY HOLE, Albourne, Hassocks, England. Filed Mar. 4, 1927, Serial No. 172,916, and in Great Britain Mar. 5, 1926. 45 Claims. (Cl. 178—22.)

1. In coding or decoding apparatus of the character described, the combination of a set of character-producing sign-keys, a second set of sign-keys which is a duplicate of the first set, a code-changing device comprising a plurality of transmission members arranged face-to-face, whereof at least two are movable one in relation to an adjacent one, and each said transmission member has a plurality of transmission points, one for each key of a said set of sign-keys, at least one of which movable transmission members situated between two others has a set of transmission points on one face connected in a "mixed" order with a second set on an opposite face, operative means passing through said transmission members by way of said transmission points and connecting the keys in pairs, one of one set to one of the other set, which transmission points on one face of one member are arranged to register simultaneously with those on an opposed face of an adjacent member and are so spaced that when one member is stepped one space relatively to another each transmission point of one member will be advanced to the preceding one of an adjacent member, so that the pairs of keys will be changed, and automatic means comprising a plurality of code-changing control members operatively allotted each to one of the movable transmission members, and adapted to be moved step-by-step by the operation of one set of keys and thereby move each its allotted transmission member.

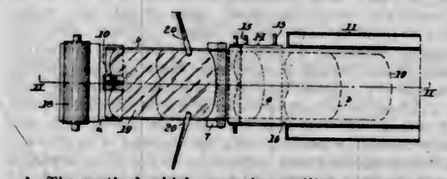


1,684,029. METHOD AND APPARATUS FOR POLISHING GLASS. GEORGE E. HOWARD, Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 11, 1926. Serial No. 154,254. 6 Claims. (Cl. 51—278.)



1. The method of polishing sheet glass, which comprises advancing a sheet of glass beneath a polishing unit composed of a rotatable head upon which a series of freely rotatable polishing pads are disposed concentrically to the axis of the head, and traveling said head transversely of the path of movement of the glass a distance not materially less than one-half the diameter of the head.

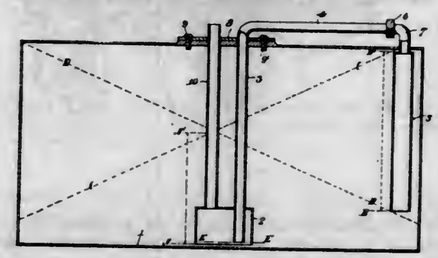
1,684,030. METHOD OF AND APPARATUS FOR FORMING PLATE GLASS. GEORGE E. HOWARD, Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 27, 1926. Serial No. 157,027. 9 Claims. (Cl. 49—33.)



1. The method which comprises rolling a plate of glass upon a table while the latter is stationary, and advancing the plate into a lehr, with its first formed portion foremost, at a rate of speed dependent upon the rate at which the sheet was rolled.

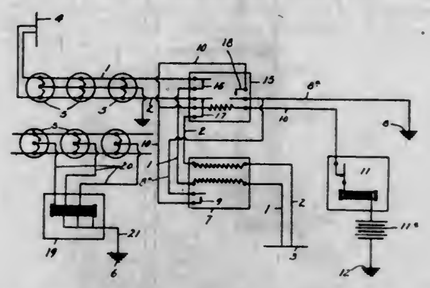
4. Sheet glass handling apparatus comprising a table having a removable segmental portion at one edge thereof, members for advancing the sheet, and means for moving said members into engagement with the glass when said segmental portion is removed.

1,684,031. AIR-SUPPLY SYSTEM. OSCAR L. INGRAM, Walla Walla, Wash. Filed Mar. 12, 1926. Serial No. 94,283. 2 Claims. (Cl. 73—54.)



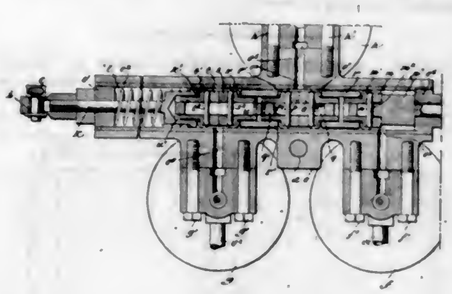
1. In combination with a liquid fuel tank, a pressure gauge air-bell mounted in the tank and having an opening communicating with the liquid at the depth to be gauged; a secondary air-bell mounted in the tank, the secondary air-bell having an opening in the lower end thereof; said air-bells being spaced apart horizontally and materially distant one from the other whereby slopping about of fuel in the tank may uncover the opening in the secondary air-bell and cause a difference in the pressure exerted in said air-bells; a pipe line connecting said air-bells and opening into the pressure gauge air-bell near the bottom thereof, whereby air will pass from the secondary air-bell into the air-bell for the pressure gauge when the slopping of the liquid in the tank causes a greater pressure to be exerted in the secondary air-bell than is exerted in the air-bell for the pressure gauge.

1,684,032. ALARM SYSTEM. RODOLPHE EMILE JORDON, Chicoutimi, Quebec, Canada. Filed May 6, 1926. Serial No. 107,023. 2 Claims. (Cl. 179—5.)



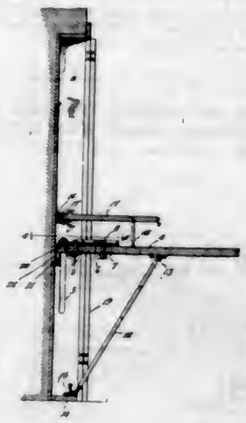
1. A signaling system comprising a tranamitting circuit, a local transmitting apparatus connected to said circuit, an alarm apparatus adapted to ground either limb of said circuit, a differential relay in said circuit, a signaling circuit controlled by said relay and including an annunciator, means including a relay in said signaling circuit for opening both limbs of said transmitting circuit, and means including a shunt to said signaling circuit closed by said last mentioned relay for retaining said signaling circuit closed independently of said differential relay.

1,684,033. CONTROL MEANS FOR THROTTLE VALVES AND THE LIKE. LYMAN C. JOSEPHS, Jr., Allentown, Pa., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 25, 1925. Serial No. 11,617. 4 Claims. (Cl. 121—38.)



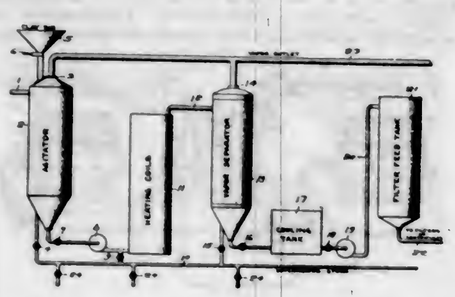
1. A pneumatic controlling device including an air cylinder, a plurality of movable piston sections each mounted slidably therein, a fixed abutment at one end of the cylinder to limit the movement of the piston sections in one direction, lost motion connections between the piston sections including hollow portions in each piston, pins mounted across the hollow portions and a link with slots to engage the pins, and means for moving the sections additively.

1,684,034. IRONING BOARD. JACOB KALAYJIAN, Pasadena, Calif. Filed Oct. 13, 1927. Serial No. 225,945. 1 Claim. (Cl. 68—10.)



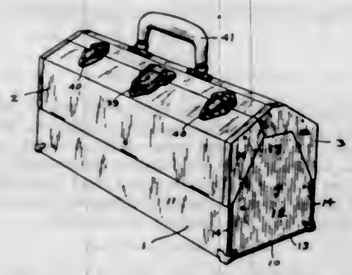
A device of the class described comprising a cabinet having grooves in its side frames, a plate having a cross bar carried thereby, the ends thereof slidably engaging the grooves, an ironing board having its rear end pivotally connected to the plate for movement in a horizontal plane, a cross bar fixed in the cabinet and having a recess formed therein, an extension carried by the ironing board, said extension being adapted for passage through the recess, whereby when the board is swung in a horizontal plane the extension will engage the upper surface of the second named cross bar, as and for the purpose set forth.

1,684,035. ART OF DECOLORIZING, CLARIFYING, AND PURIFYING PETROLEUM OILS. HAROLD LESTER KAUFFMAN and IRWIN ARTHUR CLARK, Parco, Wyo., assignors, by mesne assignments, to Harold L. Kauffman. Filed Nov. 28, 1924. Serial No. 752,697. 3 Claims. (Cl. 196—147.)



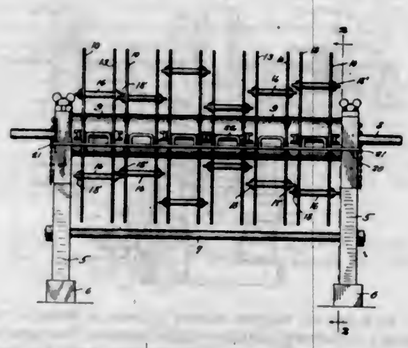
1. An improved process of decolorizing, clarifying and purifying petroleum oils by the use of untreated finely divided clays and similar filtering materials which consists in admixing with the oil such finely ground filtering material by agitating the mixture with superheated steam, passing the oil and clay mixture through a suitable heating device along with superheated steam slowly and without heating the mixture to a temperature in excess of the boiling point of the oil being treated, steaming down the hot oil and clay mixture to a temperature somewhat in excess of the boiling point of water, further cooling the mixture to the desired temperature for separating the spent filtering material from the oil and then separating the spent filtering material from the oil.

1,684,036. CANTILEVER KIT. HOWARD L. KENNEDY, Van Wert, Ohio, assignor to Kennedy Manufacturing Company, Van Wert, Ohio, a Corporation of Ohio. Filed Mar. 10, 1927. Serial No. 174,157. 8 Claims. (Cl. 206—16.)



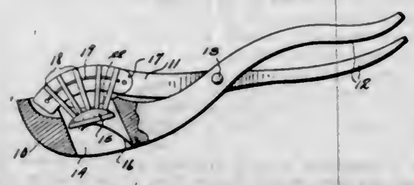
1. In a sheet metal carrying case, in combination, a substantially rectangular box having end walls and side walls, said end walls extending substantially to the top of said case and above the upper edges of said side walls, means carried by said box to support a tray above the bottom of said box, a tray supported on said supporting means, covers hinged to said side walls and cooperating to completely enclose said case, linkage connecting said box and tray, and linkage connecting said tray and one of said covers, whereby said tray may be moved into outwardly extending position upon the opening of said cover, and vice versa, said tray supporting means being arranged to support said tray when said one cover is in either closed or open position.

1,684,037. WIRE REEL. ELMER E. LEEDY, Newark, Ohio. Filed Feb. 25, 1927. Serial No. 170,940. 1 Claim. (Cl. 242—77.)



In a device of the character described, end members, a supporting shaft extending through the end members, a plurality of reels mounted on the shaft, each reel including a hub section, a disk-like member formed integral adjacent to one end of the hub, the opposite end of the hub being reduced defining a circular extension, a removable disk positioned over the extension, means extending through the last mentioned disk and into the hub for securing the last mentioned disk to the hub, said disks having elongated openings, pins having reduced threaded end portions fitted in the elongated openings and adjustable throughout the lengths of the openings, said pins providing supports for wire wound on the reels, and winged nuts on the threaded extensions of the pins for securing the pins to the disks at predetermined points throughout the lengths of the elongated openings.

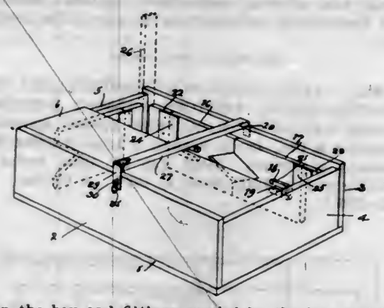
1,684,038. GOLF-BALL MARKER. CLYDE R. LONG, Smethport, Pa. Filed Sept. 15, 1927. Serial No. 219,759. 5 Claims. (Cl. 101—41.)



1. A golf ball marker including opposed jaws adapted to be manually shiftable toward or from each other, said jaws being concavely curved upon their inside faces to conform to the curvature of a golf ball, one of said jaws carrying printing members projecting inward and arranged in an arcuate curve, the other of said jaws having an inking pad disposed below the surface of the jaw and with which said type will contact when the jaws are closed.

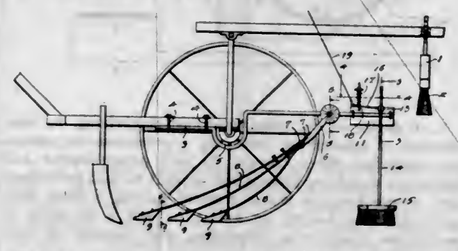
1,684,039. COMBINATION LUGGAGE CARRIER, TABLE, AND BENCH. GEORGE O. MACKIE, JOHN S. MACKIE, and JAMES C. MACKIE, Winnipeg, Manitoba, Canada. Filed June 15, 1926, Serial No. 116,236, and in Canada Apr. 30, 1926. 2 Claims. (Cl. 190—12.)

1. In combination, a luggage carrier comprising a substantially rectangular luggage box, similar cover sections detachably secured to the box, transversely extending blocks permanently secured to the inner faces of the covers adjacent the ends thereof, a brace bar hinged to each cover section and extending lengthwise between the blocks and adapted to take an extended position at right angles to the cover, pairs of removable legs normally stored



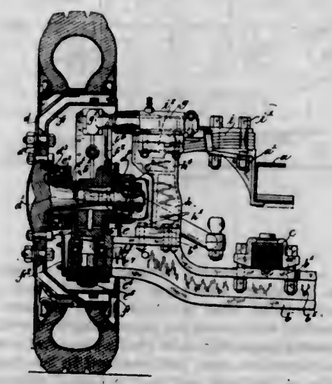
within the box and fittings carried by the legs and brace bars whereby a pair of legs can be detachably secured to each removed cover to form a bench.

1,684,040. WEEVIL DESTROYER. ZOLECTUS T. MANN, Caviness, Tex. Filed Oct. 8, 1927. Serial No. 224,929. 1 Claim. (Cl. 43—138.)



In a weevil destroying device a bar, an arm adjustably connected with the bar and provided with a plurality of ledges, springs resting upon the ledges of the arm, said springs being of different lengths and different strength, and crusher plates carried at the free ends of the springs.

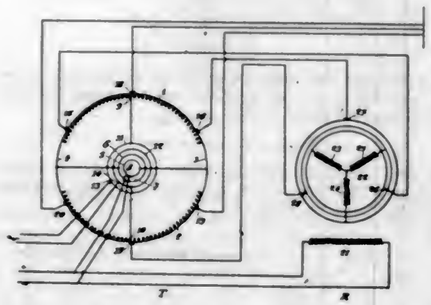
1,684,041. VEHICLE-SPRING CONSTRUCTION. ALFRED F. MASURY, New York, and ERVING R. GURNEY, Beechhurst, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 23, 1924. Serial No. 745,291. 3 Claims. (Cl. 267—41.)



1. In combination with the chassis frame wheel and spring suspension of a motor vehicle, an axle supported on the wheel below the center thereof and formed rigidly

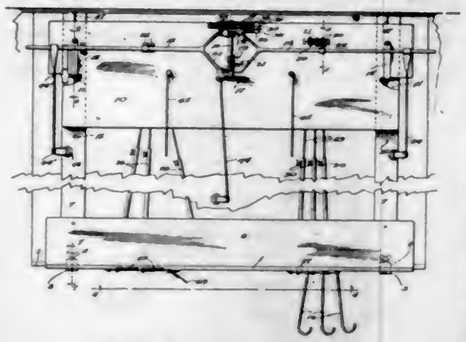
with a housing disposed above the center of the wheel, a resilient element secured to the frame forwardly of the axle and extending rearwardly and outwardly to enter the housing, and yielding non-metallic material contained within the housing and engaging the end of the resilient element.

1,684,042. APPARATUS FOR CONTROLLING THE POSITIONING OF DEVICES FROM A DISTANCE. NICOLAS EMILIEN METHLIN, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France. Filed May 20, 1924, Serial No. 714,755, and in Italy Mar. 4, 1924. 8 Claims. (Cl. 172—239.)



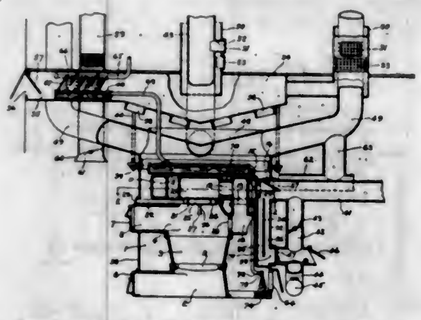
3. A device of the class described comprising, in combination, a transmitter including a potentiometer, means for supplying direct current to said potentiometer and means for supplying alternating current to said potentiometer, a synchronous motor receiver having a fixed magnetic core and having an armature, and a plurality of conductors operatively connecting said receiver to said transmitter.

1,684,043. LEAF TURNER. GUSTAVE E. MEYER, New Meadows, Idaho. Filed Apr. 16, 1926. Serial No. 102,547. 2 Claims. (Cl. 84—493.)



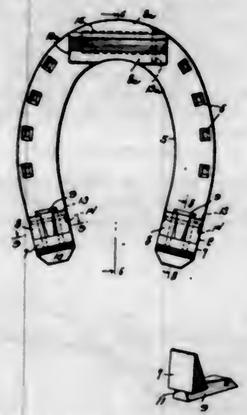
1. In a leaf turner, the combination of a leaf-supporting base, an upper frame bar supported above the said base, leaf-turning arms pivotally mounted upon the upper frame bar, and means for controlling said arms including forwardly projecting rock shafts operatively connected with the respective arms and mounted in bearings on the under side of the base and each provided with stop lugs arranged at the inner ends of the bearings and adapted to impinge against the base whereby to prevent endwise movement and limit the rocking movement of the shaft.

1,684,044. HOT-AIR HEATING SYSTEM. LOUIS SKELDING, Vancouver, British Columbia, Canada. Filed Apr. 5, 1927. Serial No. 181,164. 7 Claims. (Cl. 126—99.)



1. In a hot air furnace having a dome, a radiator comprising a cylindrical chamber supported upon the dome and communicating with an annular chamber having a smoke outlet, and separate means of communication between the dome and the cylindrical chamber and between the dome and the annular passage.

1,684,045. HORSESHOE. WILLIAM F. SLAGLE, Putneyville, Pa. Filed Nov. 1, 1926. Serial No. 145,616. 1 Claim. (Cl. 168—35.)



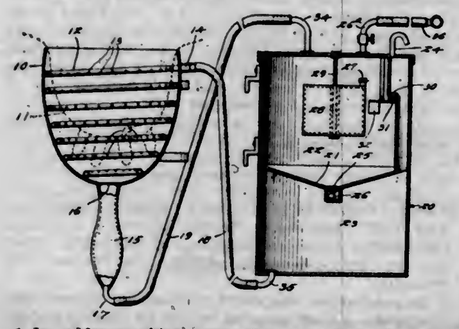
In a horseshoe, a body provided upon its under side at one end with spaced flanges flush at their outer sides with the portion of the body upon which they are formed, and a flange extending transversely between the rear ends of the first-mentioned flanges and having its outer side flush with the rear end of the portion of the body upon which the flanges are formed, the under sides of the flanges occupying a common plane parallel to the under side of the body, the opposing sides of the first-mentioned flanges occupying planes diverging upwardly in the direction of the under side of the body, the inner side of the second-mentioned flange occupying a plane perpendicular to the under side of the body, and a calk comprising a body having downwardly converging inclined front and rear sides and a flat upper side, and a shank integral with the calk body at the upper side of the body, the shank having a straight rear end perpendicular to the plane of the upper side of the body of the calk and spaced inwardly from the forward side of said body to provide a shoulder portion, the said shank of the calk having its opposite sides beveled and occupying upwardly diverging planes, the said shank being fitted between the first-mentioned flanges upon the body of the horseshoe with the rear end of the shank abutting against the inner face of the second-mentioned flange and with the upper side of the calk body resting in contact with the under sides of the first and second mentioned flanges, the said shank of the calk projecting beyond the forward side of the calk body and having a beveled end inclined upwardly and rearwardly with respect to the under side of the body of the horseshoe and terminating at its lower portion flush with the forward ends of the first-mentioned flanges upon the horseshoe body, the under side of the shank of the calk being inclined upwardly and forwardly from the forward face of the calk body to the said beveled end of the shank, the said shank and the first-mentioned flanges near their forward ends being provided with registering openings, and a securing element secured through said openings.

1,684,046. BABY PANTS. MAUD EVELNN SMITH, El Reno, Okla. Filed Sept. 28, 1926. Serial No. 138,255. 1 Claim. (Cl. 128—284.)



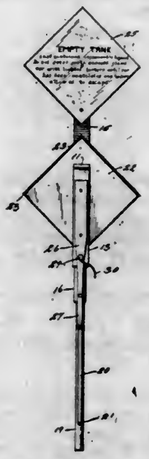
Baby pants comprising a blank of moisture-proof material formed with opposed side recesses intermediate its depth and adapted to be folded transversely to form front and rear sections of its end portions and define leg openings, strips of fabric secured along the ends of said blank and projecting therefrom longitudinally of the blank and constituting a porous waist-band when the blank is folded, strips of fabric secured along the side portions of the blank in overlying relation thereto between the recesses and ends of the blank and overlapping the ends of the waist-band forming strips and constituting reinforcements for the sides of the blank, binding strips for the margins of the recesses and sides of the end portions of the blank overlapping the reinforcing strips and ends of the waist-band forming strips, protecting strips extending along and secured to the waist-band forming strips in overlying relation thereto for the major portion of the depths thereof with their ends overlapping the reinforcing strips and their upper edge portions constituting pockets along the waist-band, elastic in said pockets, and means to releasably connect the side portion of the garment above the leg openings when in use.

1,684,047. DAIRY UTENSIL. DETLEF W. STOVEN, Park City, Utah. Filed Aug. 2, 1927. Serial No. 210,207. 7 Claims. (Cl. 119—1.)



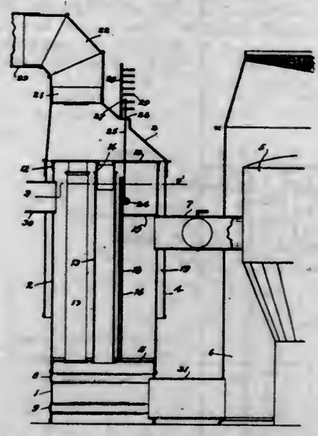
1. In udder washing apparatus, a casing adapted to engage against and seal to an udder adjacent the body of the animal, a water receptacle communicating with the casing, suction operated means likewise communicating with the casing for causing a circulation of water through the water receptacle and casing and means within the casing for directing water circulating therethrough against an udder contained therein.

1,684,048. TANK-CAR PLACARD. WILLIAM A. TAYLOR and COLUMBUS M. GIDLEY, Borger, Tex. Filed Nov. 3, 1927. Serial No. 230,824. 7 Claims. (Cl. 40—62.)



1. A placard supporting device for tank cars comprising a bracket, a shield mounted upon the bracket, a placard mounted upon the bracket above the shield and unobscured thereby, and a placard mounted upon the bracket for sliding movement from a position behind the shield to a position in front of and obscuring the second named placard.

1,684,049. HEAT ECONOMIZER. JAMES C. WILSON, Winnipeg, Manitoba, Canada. Filed Mar. 28, 1927. Serial No. 179,140. 2 Claims. (Cl. 257—167.)



1. A heat economizer comprising a cylindrical casing, a stationary lower head carried by the casing, a removable upper head enclosing the upper end of the casing, a vertically adjustable damper within the casing, a horizontal baffle wall extending between the damper and the adjacent wall of the casing, said damper and baffle wall dividing the interior of the casing into two compartments, sets of tele-

scoping tubes carried by the heads and extending through one of the compartments and having their lower ends communicating with atmospheric air, a demountable hood at the upper end of the casing, a hot air pipe leading from the hood, a flue pipe opening to the second compartment of the casing and a flue pipe leading from the tube containing compartment of the casing.

1,684,050. BUILDING BLOCK. HARRY F. ADAMS, Greenport, N. Y. Filed Oct. 31, 1923. Serial No. 672,011. 1 Claim. (Cl. 72—38.)



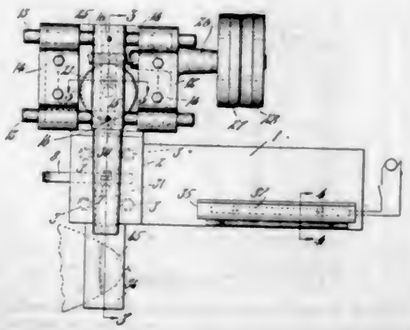
A building block having a tongue and groove on opposite sides thereof, and in corresponding positions to register with a groove and tongue on adjacent blocks, the tongue and groove being of dovetail shape, the narrow part of the groove being wide enough to pass the narrow part of the tongue.

1,684,051. SPACER. FRANCIS WILLIAM ANDERSON, Seattle, Wash. Filed Mar. 2, 1927. Serial No. 172,109. 2 Claims. (Cl. 72—76.)



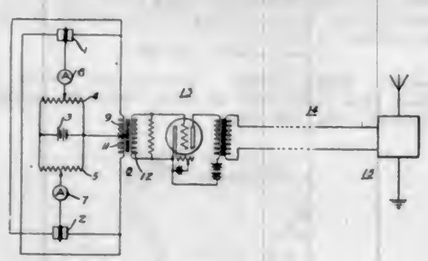
1. A spacer of the character described comprising a rod formed with transverse hooks arranged at opposite ends thereof and running in the same direction and with a bend in the proximity of one of the hooks adapted to cooperate with said hook in holding a transverse element against endwise motion.

1,684,052. APPARATUS FOR ASSEMBLING STIFFENERS IN SHOE UPPERS. WILLIAM H. BAYNARD, Boston, Mass., assignor to Harry H. Beckwith, Brookline, Mass. Filed Mar. 13, 1924. Serial No. 698,830. 5 Claims. (Cl. 12—51.)



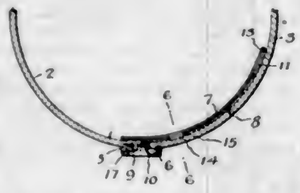
1. An apparatus of the class described comprising a vertically movable table, means normally holding said table elevated, means for depressing said table, a stationary platform adjacent to said table at the level of its depressed position, and a pressure member above said table at a fixed distance from the level of said platform and cooperating with said table to press material therebetween when said table is in elevated position.

1,684,053. MICROPHONE SYSTEM. GEORGE E. BLIZIOTIS, Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 22, 1924. Serial No. 687,727. 3 Claims. (Cl. 179—1.)



1. In combination, a plurality of differential microphones cumulatively connected to a translating device, a voltage source having a terminal thereof connected to said translating device, resistors connected in shunt to said voltage source, and a variable connection from an intermediate electrode of each of said microphones to one of said resistors, whereby the response characteristics of said microphones may be adjusted.

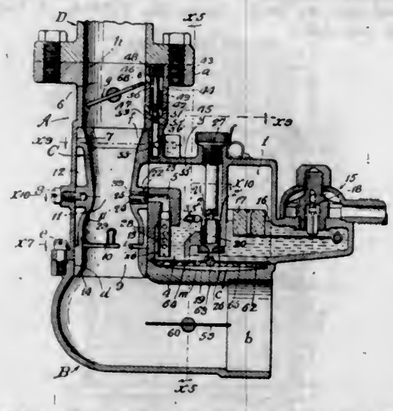
1,684,054. WRIST-STRAP DEVICE. ADOLPH BULOVA, New York, N. Y., assignor to Bulova Watch Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 20, 1926. Serial No. 96,294. 6 Claims. (Cl. 24—71.)



1. A wrist-strap device comprising, in connection with two wrist-watch strap members, two long, thin, flexible, curved leaves formed to lie folded face to face in superposed relation, a hinge connecting said leaves at one end of each, connections on the other ends of said leaves to receive the ends of said strap members, the relations being such that in the folding of the leaves the outer leaf carries one of the strap members over on top of the leaves, the leaves lying covered beneath said strap member, one of said leaves having a low fastening projection on its face inwardly of the edges, and the other leaf having a recess to receive said projection.

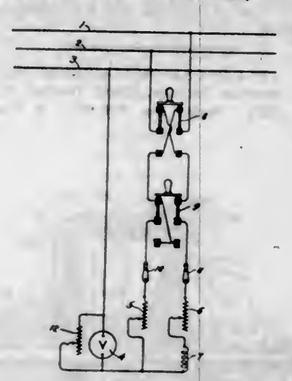
1,684,055. CARBURETOR. ROY F. ENSIGN, South Pasadena, Calif., assignor to Ensign Carburetor Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 30, 1923. Serial No. 677,649. 4 Claims. (Cl. 261—41.)

1. In a carburetor comprising a fuel supply chamber, and an air intake, a shaft mounted in said air intake; a choke valve mounted upon said shaft; a fuel orifice; means to deliver fuel from said fuel supply chamber through said orifice to the air stream; means to equalize the depression caused by air resistance which would otherwise add to the flow of fuel through said fuel orifice; and means controlled



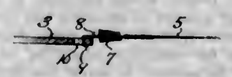
by operation of the choke valve to destroy the effect of the equalizer means to cause an increased flow of fuel through the fuel orifice during starting operation.

1,684,056. ELECTRICAL MEASURING INSTRUMENT. ROBERT DAVID EVANS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 10, 1924. Serial No. 736,842. 4 Claims. (Cl. 172—245.)



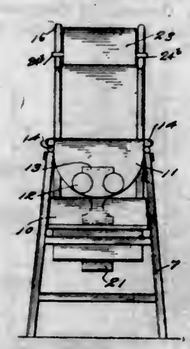
1. An instrument comprising an electroresponsive device, a plurality of impedances associated therewith, and means including a switch for so altering the connection of said impedances to said device that the operation of said device indicates the ratios of said impedances.

1,684,057. TENSIONING DEVICE FOR METAL STRINGS FOR MUSICAL INSTRUMENTS. JOHN J. FISHER, Milwaukee, Wis., assignor of one-half to Theodore Wittemann, Milwaukee, Wis. Filed Feb. 9, 1924. Serial No. 691,551. 1 Claim. (Cl. 84—297.)



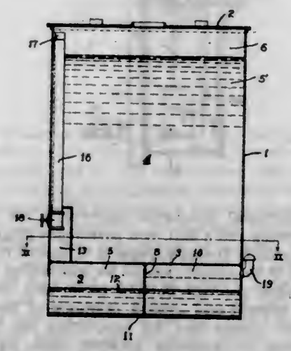
A device for attaching the end of a metal string to a musical instrument comprising a helical spring, a hook formed at one end for attachment to the musical instrument, and a hook formed at the opposite end for receiving the string, the coils of said spring gradually increasing in size from the string receiving end toward the attaching end of the spring, whereby the coils of the spring are smallest adjacent the string receiving end and are largest towards the hook.

1,684,058. COMBINED BABY'S HIGH CHAIR AND COT. ARTHUR T. GOODING, London, England. Filed Oct. 11, 1923. Serial No. 667,968. 1 Claim. (Cl. 155—44.)



A convertible chair comprising a base structure, a seat of flexible material secured at its ends to the upper opposite side portions of the base structure, a foot rest hingedly mounted at the forward portion of the base structure, a back pivoted to the base structure near the level of the lowermost portion of the seat, said back being detachably secured to the base structure at a point above and to the rear of the pivotal connection between the back and base structure, a lip secured to a portion of the back projecting below the point where said back is pivoted and adapted to engage the foot rest to elevate the same and to aid in holding the back in approximately a horizontal position, said seat having a flexible front wall provided with a recess at its lower intermediate portion, and a flap secured to the front wall between the ends of the recess and forming leg openings at the opposite ends of the recess.

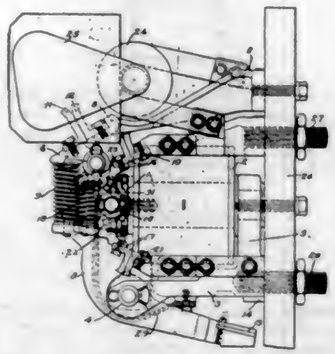
1,684,059. TANK STRUCTURE. LELAND H. HILL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 4, 1922. Serial No. 592,256. 4 Claims. (Cl. 220—85.)



1. A tank comprising a main portion containing an expansible fluid, a supplementary portion adapted to contain a liquid for sealing the contents of said main portion from

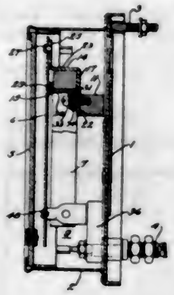
the atmosphere, means for establishing communication between said main and said supplementary portions whereby a change in the volume of the fluid contained in said main portion will cause a change in the level of the liquid contained in said supplementary portion, deoxidizing means for the fluid content of said tank, and a receptacle adapted to contain said deoxidizing means.

1,684,060. MAGNETIC SWITCH. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 1, 1923. Serial No. 622,048. 5 Claims. (Cl. 200—104.)



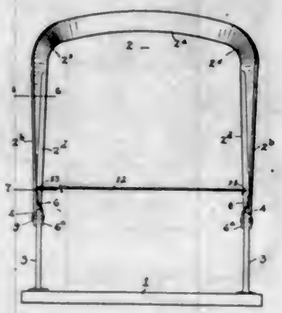
1. A contactor comprising a movable and a stationary contact member and operating means therefor, a pair of oppositely-extending auxiliary stationary members, and a pair of auxiliary members pivotally mounted solely on the movable member for bridging the auxiliary stationary members.

1,684,061. ELECTRICAL MEASURING INSTRUMENT. PAUL KAZISEL, Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1923. Serial No. 638,621. 6 Claims. (Cl. 171—34.)



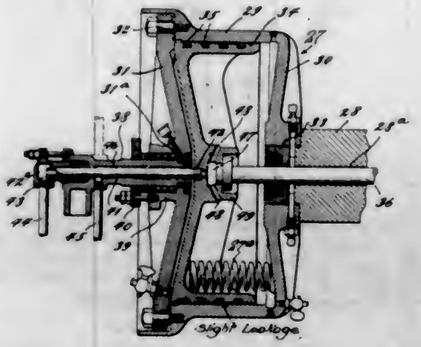
1. In an electrical measuring instrument, the combination with a casing and a dial, of a permanent magnet of inverted substantially U-shape disposed in spaced relation to the rear wall of the casing, means for suspending the magnet by its upper central portion comprising means for limiting the upward and inward positions of the magnet relative to the casing and for supporting the dial, and separate means co-operating between each leg of the magnet and the casing for positioning the magnet relative to said suspension means and to the casing and for supporting the dial.

1,684,062. BACK FOR AUTOMOBILE SEATS AND THE LIKE. SAGITO J. LEACH and ALFRED C. EBERLE, Ashtabula, Ohio, assignors to The Ashtabula Bow Socket Company, Ashtabula, Ohio, a Corporation of Ohio. Filed Dec. 22, 1924. Serial No. 757,374. 3 Claims. (Cl. 155—195.)



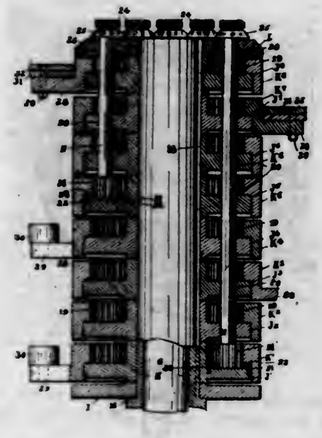
1. As an article of manufacture, a back frame member for a seat of the type described, said member being fashioned from a unitary flat piece of sheet metal of greater width than thickness and comprising a transversely extending top and two depending side arms continuous therewith and of substantially uniform thickness, and having a longitudinally extending portion lying in a plane approximately parallel with that of said top and a contiguous angularly related portion.

1,684,063. FLUID-PRESSURE-OPERATED DEVICE. THOMAS SPENCER MILLER, South Orange, N. J. Filed Aug. 1, 1924. Serial No. 729,462. 9 Claims. (Cl. 121—38.)



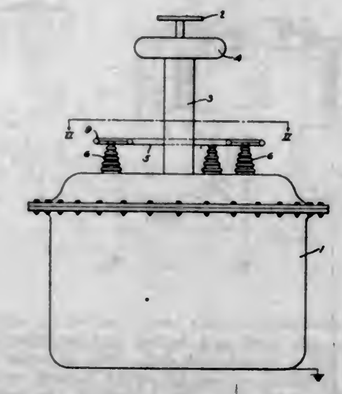
1. In combination, a fluid pressure operated device comprising a cylinder and piston, the piston being constructed and arranged to permit steam normally to leak past the same in sufficient amount to maintain the cylinder heated, a control therefor located in a space occupied by the operator, means for normally admitting to the cylinder steam sufficient in amount to warm the same but insufficient to operate said device, and means for conducting the steam leaking past said piston to a point remote from the space occupied by the operator.

1,684,064. TIMING MECHANISM. WILLIAM J. MILLER, Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed May 29, 1924. Serial No. 716,835. 20 Claims. (Cl. 74—1.)



18. In a timing device, the combination of a rotary support, a member rotatably mounted for adjustment on said support and fixable thereon, and a contact element carried by said member and adjustable circumferentially thereof.

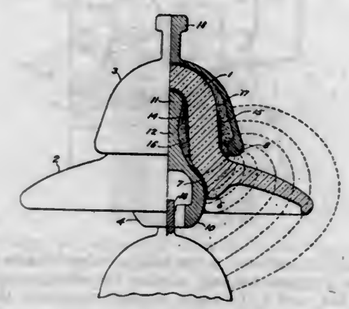
1,684,065. ELECTRICAL MEASURING INSTRUMENT. DOUGLAS F. MINER, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1924. Serial No. 711,552. 8 Claims. (Cl. 171—95.)



1. A measuring system comprising a sectional condenser element, and means connected to said element adapted to indicate both the maximum and effective values of the applied voltage.

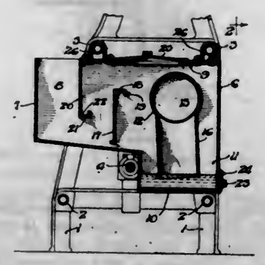
1,684,066. INSULATOR. DOUGLAS F. MINER, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1924. Serial No. 739,257. 4 Claims. (Cl. 173—318.)

4. An insulator comprising a cap having conducting side surfaces, conducting closed-end surfaces of gradual curvature and an open-end perimeter of substantially torus shape having a relatively great radius, the surfaces of said torus being conducting and merging gradually into said side surfaces, a pin element having a conducting-surface shank portion opposite said closed-end and side surfaces shaped to uniformly distribute the electrostatic field between the shank and said cap surfaces, a connector element for cooperation with the outer end of the pin, one



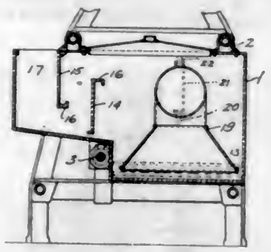
of said elements having an enlarged substantially spherical conducting-surface portion to widely distribute the field between the sphere and the torus, and an insulating member having a hollow head portion in said cap and over said shank and a petticoat portion projecting laterally outwardly between said sphere and said torus, the surfaces of said insulating member being shaped as substantially equi-potential and flow-line surfaces in the electrostatic field as determined by the surfaces of the cap and pin.

1,684,067. DUST COLLECTOR. JOHN C. MOON, St. Louis, Mo. Filed Feb. 17, 1926. Serial No. 88,815. 4 Claims. (Cl. 183—24.)



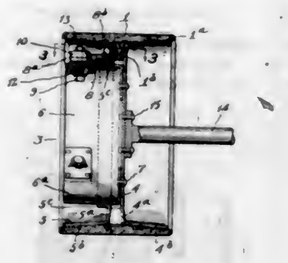
2. In a dust collector, a closed box having an opening in one side of its top and an inlet pipe extending through said box from end to end and located near the opposite side of the box, a water holding depression in the bottom of said box beneath said pipe, a conduit on said pipe leading into said depression, an upright longitudinal baffle spaced slightly from the bottom of said box and having a horizontal top flange below the top of the box and extending toward said pipe, a second upright longitudinal baffle between said first mentioned baffle and said top opening extending downwardly from the top of said box and having a horizontal lower flange above the bottom of the box and extending toward said first mentioned baffle, each of said flanges having a return bend on its longitudinal edge for trapping water in air striking against said flanges.

1,684,068. DUST COLLECTOR. JOHN C. MOON, St. Louis, Mo. Filed Apr. 8, 1927. Serial No. 182,106. 4 Claims. (Cl. 261—121.)



1. In a dust collector, a box having an opening in one of its walls, a closure for said opening, air inlets in the walls of said box, and a discharge member removable through said opening and adapted to be detachably connected to either one of said inlets and to lead therefrom to the dust receiving lower portion of said box.

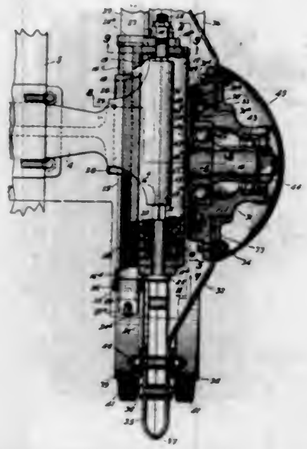
1,684,069. BELT DRIVING MECHANISM. GORDON R. PENNINGTON, Cleveland, Ohio. Filed Apr. 18, 1922, Serial No. 555,135. Renewed Dec. 16, 1927. 7 Claims. (Cl. 74—21.)



1. In a friction drive mechanism, the combination of an endless belt having inner, outer and lateral surfaces and a wheel structure over which the belt passes, said wheel structure comprising a pair of co-axial relatively turnable rim sections disposed side by side and having treads arranged to engage the inner surface of the belt and lateral surfaces arranged to engage opposite lateral surfaces of the belt, and means on said rim sections adjacent the belt-engaging surfaces thereof adapted when the rim sections turn circumferentially in relation to each other to force said sections together axially and grip the belt between their said lateral surfaces.

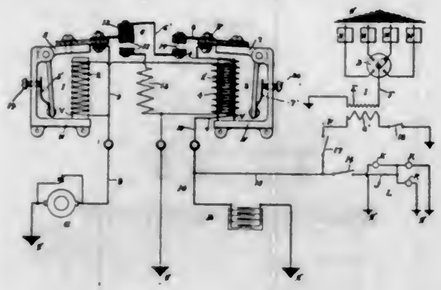
1,684,070. MOTOR VEHICLE. GORDON R. PENNINGTON, Cleveland, Ohio. Filed May 29, 1922. Serial No. 564,304. 4 Claims. (Cl. 305—9.)

4. In an endless track vehicle, the combination of an endless track, a pair of wheels around which the track passes, an axle structure for one of said wheels comprising a support fixed in relation to the vehicle frame, a stub axle slidably mounted on said support for adjustment toward and from the other wheel, and means for securing the stub axle in adjusted position comprising a resilient



member adapted to yield when the tension in the track exceeds a certain value so as to permit said axle to move toward the other wheel.

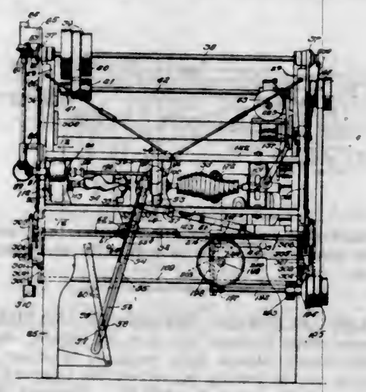
1,684,071. ELECTRIC-CIRCUIT CONTROL SYSTEM. JOHN R. PRICE, Charlottesville, Va. Filed Dec. 1, 1922. Serial No. 604,351. 8 Claims. (Cl. 290—50.)



1. The combination with a load, a battery for supplying current to said load, said battery and generator being normally out of circuit with each other, of means automatically operative to close the circuit through said generator and battery when the voltage of the generator exceeds that of the battery, means automatically operative to open said circuit when the battery is fully charged, a resistance coil, and means automatically operative on the opening of said circuit to close a circuit through said generator and resistance coil.

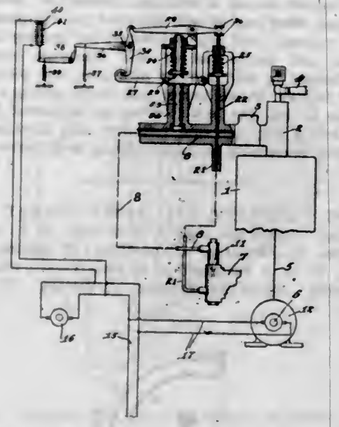
1,684,072. LATHE. CHARLES E. REED, McHenry Township, McHenry County, Ill. Filed July 7, 1923. Serial No. 650,194. 14 Claims. (Cl. 142—15.)

1. In a last lathe, the combination of a support, a driving shaft journaled on said support, a swing frame pivoted to swing about the axis of said shaft, work and pattern rotating means carried by the swing frame, a driving element carried by said driving shaft, a driven element fixed to said support, a universal joint centered in the axis



of said shaft and driven by said driven element, and means for driving said rotating means through said universal joint.

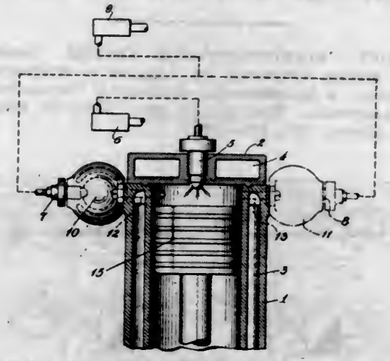
1,684,073. ELECTRICAL POWER EQUIPMENT. MAX ROTTER, Milwaukee, Wis., assignor to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo., a Corporation of Missouri. Filed Nov. 15, 1924. Serial No. 750,188. 7 Claims. (Cl. 290—7.)



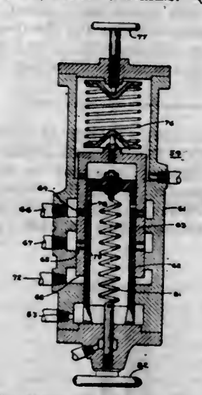
2. The combination of an internal combustion engine of the fuel injection type, its fuel pump, a dynamo connected to the engine and arranged to alternately act as a motor to drive the engine and as a generator driven by the engine, and a charging device to deliver the initial charge of fuel to a cylinder at the beginning of the fuel operation of the engine.

1,684,074. INJECTION DEVICE FOR INTERNAL-COMBUSTION ENGINES. ERNST SCHAEREN, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed May 19, 1925, Serial No. 31,259, and in Switzerland June 11, 1924. 3 Claims. (Cl. 123—33.)

1. In an injection type engine the combination with the main fuel injection means, of a hot-blast chamber in relatively restricted communication with and arranged to deliver substantially tangentially of the combustion space, and means for injecting into said hot-blast chamber supplementary fuel separately from the main fuel, whereby combustion of the supplementary fuel therein projects a turbulence-creating hot-blast into the combustion space.

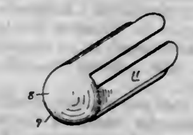


1,684,075. HYDRAULIC TRANSMISSION SYSTEM. ANTHONY F. SCHWENDNER, Essington, and JOHN S. MYERS, Philadelphia, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1924, Serial No. 736,660. Renewed July 21, 1927. 9 Claims. (Cl. 137—158.)



1. In a fluid-pressure transformer device, the combination of a chamber, a sleeve disposed within the chamber, said sleeve having ports adapted to communicate with a source of fluid under pressure, a second sleeve having ports adapted to communicate with the ports of the first sleeve, means associated with the second sleeve for permitting the accumulation of a predetermined fluid pressure in response to the movements of the first sleeve, and means for actuating said first sleeve.

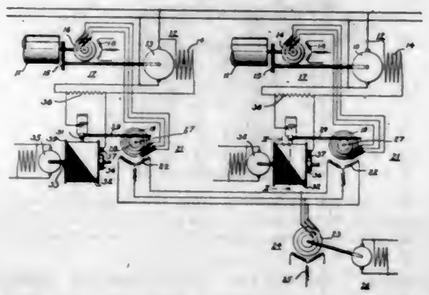
1,684,076. DIGIT GUARD. JOHN MORGAN SMITH, Chihuahua, Mexico. Filed June 2, 1926. Serial No. 113,114. 2 Claims. (Cl. 128—87.)



1. In a dressing for a digit, a stiffening member formed of relatively hard pliable material comprising a cap portion arranged to be positioned at the end of the digit to

present a concavity in opposed relation thereto, and laterally spaced tongue portions extending from said cap portion to lie longitudinally along the digit.

1,684,077. SPEED-REGULATOR SYSTEM. STEPHEN A. STAEGE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 12, 1921. Serial No. 460,838. 11 Claims. (Cl. 172—293.)



1. In a regulator system, the combination comprising a plurality of rotating members, a frequency changer operated by each of said members, an auxiliary frequency-changer, and means for controlling the speed of each rotating member, said means being jointly controlled by the auxiliary frequency changer and the frequency changer associated with each rotating member and including a circuit interrupter comprising a co-operating brush and commutator device.

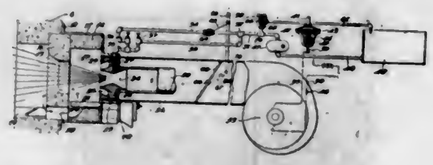
1,684,078. ARRANGEMENT FOR AVOIDING REFLECTIONS OF SOUND INSIDE BUILDINGS. GEORG VON ARCO, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed June 25, 1924, Serial No. 722,423, and in Germany July 25, 1923. 4 Claims. (Cl. 181—30.)



1. An acoustic wall comprising a supporting layer and a coating of flaky sound absorbing material having suitable binding material carried by said layer.

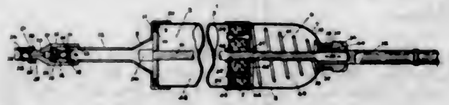
1,684,079. LIQUID-FUEL BURNER AND CONTROL MECHANISM THEREFOR. RAYMOND E. WHITE, Chicago, Ill., assignor to Winslow Safety High Pressure Boiler Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 14, 1921. Serial No. 522,350. 5 Claims. (Cl. 158—28.)

1. In a liquid fuel burner, the combination of a mixing chamber, means for supplying liquid fuel thereto, a primary air passageway for supplying the requisite volume of air to said mixing chamber for supporting combustion during a relatively low stage of firing, a secondary air passageway for supplying a supplementary volume of air to said mixing chamber during an advanced stage of firing, a throttle controlling the air flow through said secondary air passageway, valve means for supplementing the supply



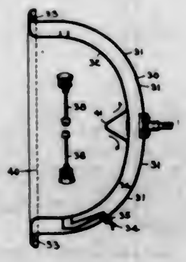
of liquid fuel to said mixing chamber, and actuating means co-operating with said throttle and said valve means.

1,684,080. AUTOMATIC GREASE GUN AND THE LIKE. OSCAR ZERK, Chicago, Ill., now, by judicial change of name, Oscar Ulysses Zerk, assignor, by mesne assignments, to The Bassick Manufacturing Company. Filed July 5, 1923, Serial No. 649,702. Renewed Mar. 12, 1928. 5 Claims. (Cl. 221—47.3.)



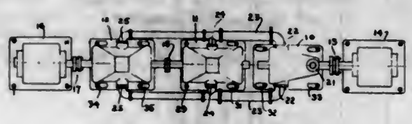
5. A lubricant compressor comprising a lubricant containing barrel having a discharge conduit at one end, a cap at the other end of said barrel, a central plunger extending through said cap and barrel for forcing the contents of said barrel out of said discharge conduit, a spring housed in said cap for returning said plunger, an annular follower in said barrel, said barrel having a turned-in flange at its rear end forming an abutment for said spring and a stop for said follower, said discharge conduit being removable to permit filling said barrel.

1,684,081. THERAPY AND INFRA-RED-RAY LAMP. HERBERT SHERWOOD AKERS, Montvale, N. J., assignor to The Kny-Scheerer Corporation of America, New York, N. Y., a Corporation of New York. Filed June 26, 1926. Serial No. 118,682. 6 Claims. (Cl. 174—177.)



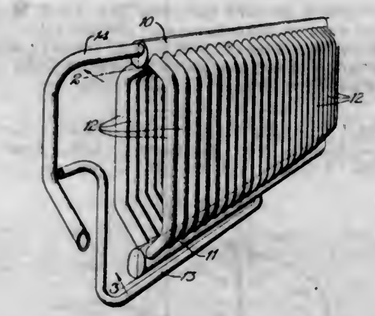
3. In an infra-red ray lamp the combination of electrical heat elements maintaining a low temperature, a deflecting means having a central pyramidal element and an arcuate reflector adapted to diffuse the largest possible amount of long heat waves and means for securing said lamp in any desired position in a vertical plane and a horizontal plane.

1,684,082. POWER PLANT. ROBERT C. ALLEN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 24, 1925. Serial No. 58,375. 6 Claims. (Cl. 60—70.)



6. In a power plant, the combination of a single flow high pressure turbine element, two double flow low pressure turbine elements disposed in end-to-end relation with respect to each other and with respect to the high pressure turbine element, all of said turbine elements having their axes located in substantially a common vertical plane, receiver piping extending longitudinally from each side of the axes of the turbine elements and rigidly connecting the high pressure turbine element with the respective low presure turbine elements, said receiver piping providing communication between the exhaust connection of the high pressure turbine element and the inlets of the low pressure turbine elements, one end of one turbine element being fixed and the remaining end of that turbine element, as well as both ends of all the other turbine elements, being movable longitudinally, an electrical generator directly connected to and driven by the high pressure turbine element, and a second electrical generator directly connected and driven by the two low pressure turbine elements.

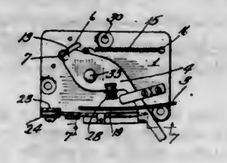
1,684,083. REFRIGERATING COIL. SAMUEL C. BLOOM, Chicago, Ill. Filed June 2, 1927. Serial No. 196,093. 9 Claims. (Cl. 62—126.)



1. A refrigerating coil comprising; an upper suction header; a lower liquid header; a plurality of circulating pipes joining said headers; a dry pipe connected to the suction header; a liquid distributing header in the liquid header provided with a plurality of outlets; and a liquid feed pipe connected to said liquid distributing header.

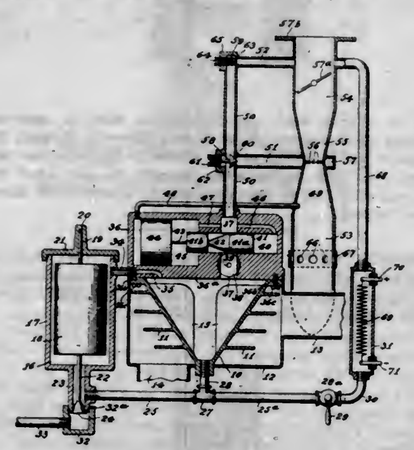
1,684,084. AUTOMATIC STOP FOR ELECTRICALLY-DRIVEN PHONOGRAPHS. JOSEF BRANDSTETTER, Chicago, Ill. Filed Nov. 5, 1927. Serial No. 231,305. 7 Claims. (Cl. 192—119.)

1. An attachment for a phonograph driven by an electric motor and including a tone arm: automatic stop including a switch, a pivoted lever controlling the switch and having the movable contact member of the switch mounted on the lever, spring means continuously tending to move the lever in a switch-opening direction, and a pivoted detent member having an arm disposed in the path of the tone arm and having a detent portion normally engaging the said lever to hold the latter in its switch-



closing position, the said detent portion being moved out of its said lever-holding position when the tone arm engages the impact portion.

1,684,085. CARBURETOR. JOHN J. CRAIN, Waterbury, Conn. Filed May 15, 1923. Serial No. 639,097. 10 Claims. (Cl. 123—133.)



1. In a carburetor for an internal-combustion engine, a heated chamber for vaporizing a pool of liquid fuel, means for mixing the fuel vapor with a supply of air, and an automatic pressure-operated mechanism for maintaining a constant ratio of fuel to air, and means controlled by the vapor pressure in the engine intake for varying the level of said liquid fuel in the chamber in accordance with the demand for fuel from the engine.

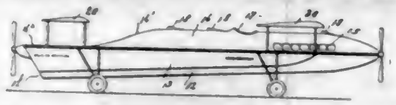
1,684,086. WATERPROOFING PASTE. GERALD B. DYDE, Portland, Oreg. Filed Sept. 16, 1926. Serial No. 136,001. 1 Claim. (Cl. 134—15.)

A water-proofing paste consisting of approximately one gallon of boiled linseed oil, one pint of turpentine, one pound of Burgundy pitch and one pound of yellow beeswax.

1,684,087. AEROPLANE. JOSEPH CARL ELGER, Pittsfield, Mass. Filed Dec. 20, 1927. Serial No. 241,294. 2 Claims. (Cl. 244—30.)

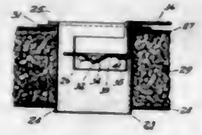
1. In an aeroplane, a fuselage or body formed of a flat piece of rigid material provided with a number of longitudinally extending tubular flutes spaced apart and projecting below the surface, the spaces between said flutes forming tunnels or channels, said flutes being made to gradually increase in depth toward the rear, the central flute being provided with a hood and serving as a compartment or gondola, while the lateral flutes and chan-

nels serve to stabilize the plane in flight, preventing lateral tipping, assuring safe landing and promoting the forward



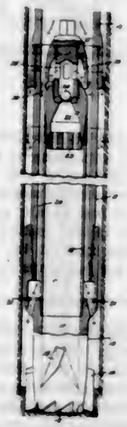
propulsion of the aeroplane as well as gliding, the partition of the air below the plane surface by single arrowlike walls or by hollow tubes as shown in the drawings.

1,684,088. RANGE VENT. FRANK F. FORSHEE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 9, 1927. Serial No. 218,435. 10 Claims. (Cl. 126—292.)



4. In a oven vent, the combination with an open-end tubular shell, a pivot pin extending laterally through the walls of the shell and a disk pivotally supported on said pivot pin, of a semi-annular member in said shell for turning said disk on the pivot pin by a peripheral movement thereof.

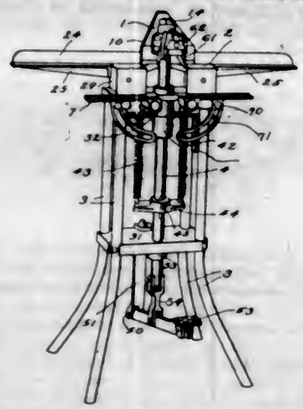
1,684,089. CORING DEVICE. REID B. GRAINGER, Redondo Beach, Calif., assignor to Elliott Core Drilling Company, a Corporation of California. Filed June 1, 1927. Serial No. 195,638. 8 Claims. (Cl. 255—72.)



1. In combination, a core drill having an inner and outer barrel forming a passage therebetween for circulating fluid, a valve at the upper end of the inner barrel, and means for forming an annular discharge outlet for said valve, discharging into the circulating fluid passage.

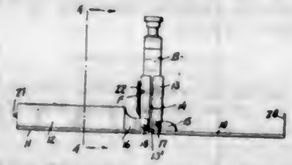
1,684,090. MITER JACK AND COPING CUTTER. WILLIAM H. GREENFIELD, Seattle, Wash. Filed May 4, 1926. Serial No. 106,777. 15 Claims. (Cl. 144—217.)

1. In a miter jack, the combination with a supporting frame having a laterally-disposed work table, of a vertical guide carried by said frame below the work table, a miter head vertically movable relative to said table, and normally



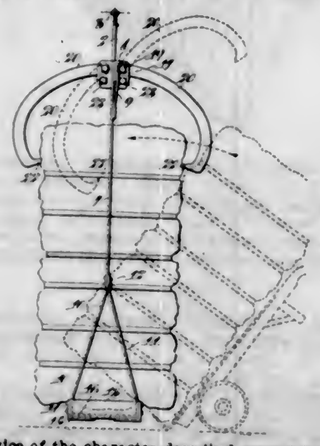
thereabove, and a rod vertically reciprocable in said guide, said rod being secured in said head to form the sole support and guide thereof.

1,684,091. BOX. LOUIS WILLIAM HALK, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 16, 1927. Serial No. 219,002. 3 Claims. (Cl. 132—79.)



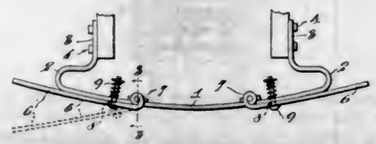
1. In a box, a lid and a body, said lid and body lying in one plane when the box is in an open position, holding ears on each side of said lid and body at right angles to said lid and the bottom of said body and a rectangular holder for a series of toilet articles secured to said holding ears.

1,684,092. TRAVELING-CONVEYER TRAY. EDWARD HANAK, Houston, Tex. Filed Sept. 1, 1927. Serial No. 216,972. 9 Claims. (Cl. 204—67.)



1. A device of the character described comprising a support bar, means to mount the bar on a conveyer, end standards carried by the bar, a tray carried by the standards, and means independent of said mounting means carried by the bar to engage an article mounted on the tray and secure it against inadvertent displacement.

1,684,093. AUTOMOBILE BUMPER. WILLIAM E. HART, San Jose, Calif. Original application filed Oct. 7, 1927, Serial No. 224,662, Patent No. 1,670,963, dated May 22, 1928. Divided and this application filed Mar. 24, 1928. Serial No. 264,383. 3 Claims. (Cl. 293—55.)



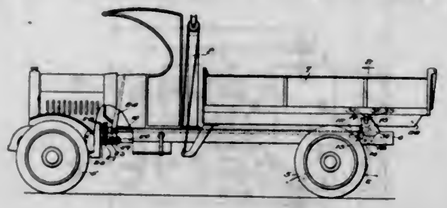
1. In bumpers, a transverse resilient bar bent at its ends to form resilient end loops and mounting arms adapted to be secured to suitable supports, a yieldable bumper extending laterally beyond each end loop and pivoted to the transverse bar inwardly of the loop, and spring connections to hold each yieldable bumper member against the transverse bar to cooperate therewith in absorbing shocks in certain directions but permitting said yieldable bumper members to yield and move away from the transverse bar when engaged in other directions.

1,684,094. ICE CREAM AND METHOD OF MAKING SAME. JAMES ROBINSON HATMAKER, Paris, France. Filed Sept. 20, 1927. Serial No. 220,850. 5 Claims. (Cl. 99—11.)

1. The process of making ice-cream mixtures which consists in drying a suitable portion of a given quantity of natural whole milk and in incorporating the dry solids obtained integrally therefrom with the remaining portion of such milk and in adding thereto suitable quantities of cream, sugar and stabilizing and flavoring materials, substantially as described.

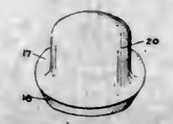
5. Ice-cream mixtures containing approximately 62 per cent of water and being composed to the extent of approximately 57⅛ per cent by weight of natural whole milk, the remainder of the milk solids and of the water of the mixtures (amounting approximately to a total of 26½ per cent) being obtained integrally from natural whole milk and from cream, the remaining 16 per cent of the mixtures being made up principally of sugar.

1,684,095. DUMPING VEHICLE. HERMAN C. HEATON, Chicago, Ill. Filed Dec. 7, 1925. Serial No. 73,546. 9 Claims. (Cl. 298—1.)



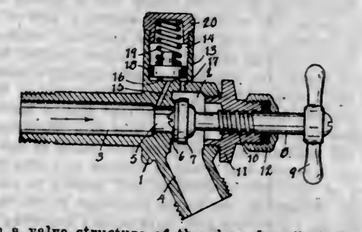
1. In a vehicle of the class described, the combination of a vehicle frame, a dumping body having relatively fixed pivotal support upon said frame and adapted for tilting movement thereon, said body normally having a generally horizontal position and being tiltable therefrom, and means for vibrating the body, said vibrating means permitting movement of the body into and out of tilted position and being cooperable with the body upon completion of the tilting movement thereof to vibrate same after tilting and independently of said frame and augment the tilting of the body in dislodging and discharging the contents therefrom, said vibrating means being inoperative until the body has reached tilted position.

1,684,096. CAP NUT. JAMES W. HUGHES, Philadelphia, Pa. Filed Dec. 27, 1927. Serial No. 242,758. 4 Claims. (Cl. 85—35.)



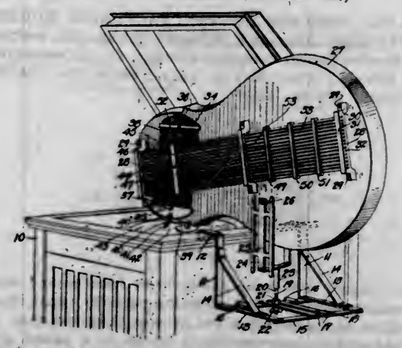
4. A cap nut provided with an external wrench engaging surface of a continuously curved contour having major and minor axes.

1,684,097. COMBINED DRAIN COCK AND RELIEF VALVE. HERBERT S. HUMPHREY, Kalamazoo, Mich., assignor to Ruud Manufacturing Company, Kalamazoo, Mich. Filed Sept. 8, 1927. Serial No. 218,225. 3 Claims. (Cl. 277—54.)



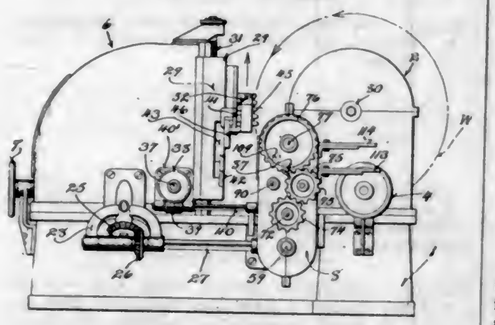
1. In a valve structure of the class described, the combination of a casing having a main valve chamber provided with an inlet port and a relief valve chamber disposed at the side of said main valve chamber and having an inlet port opening centrally to said relief valve chamber and communicating with the inlet port of said main valve chamber, said relief valve chamber having a discharge port opening to said main valve chamber, said ports being surrounded by raised annular valve seats, a main valve coacting with said main valve chamber port and provided with a threaded stem in alignment with said inlet port, a relief valve coacting with said relief valve port, a spring acting to hold said relief valve to its seat, and means for adjusting said spring.

1,684,098. SOUND-REPRODUCING MECHANISM. EBBT U. IWWERKS, Kansas City, Mo. Filed June 18, 1926. Serial No. 116,898. 10 Claims. (Cl. 274—25.)



1. A sound reproducing device comprising a sound box, a stylus supporting member, and a plurality of sets of rigid, elongated vibratory members mounted on said sound box, one of said sets being secured to the stylus supporting member and the other set being connected with said first set.

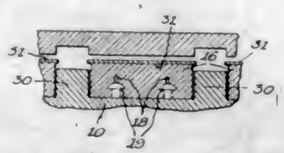
1,684,099. GEAR-CUTTING MACHINE. FRANK W. JURY, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 1, 1926. Serial No. 112,979. 11 Claims. (Cl. 90—9.)



1. A gear cutting machine for cutting double helical gears, comprising a pair of crank shafts having cranks thereon, means for rotating said shafts, a pair of angularly set guides, a pair of cutter carrying members directly operated from said cranks, cutters carried by said members, means for supporting and rotating a blank adjacent said cutter, gearing transmitting motion to said blank rotating means, and intermittent motion mechanism interposed between said gearing and said blank rotating means for intermittently rotating said blank in one direction only, whereby said blank is rotated in a step by step manner as said cutters oscillate and rotates in the same direction throughout the entire operation of the machine in producing a complete gear, said cutters executing only a single cut on each successive tooth completely around the blank until the entire gear is formed.

10. A gear cutting machine for cutting double helical gears comprising work carrying means adapted to drive and index said work, a gear train for operating said work driving means and comprising intermittent motion mechanism for indexing the work, a pair of reciprocatory cutters, a pair of cranks for driving said cutters, gearing connecting said cranks and said gear train for imparting motion to said gear train, a sliding plate carrying said cutters, means for advancing said plate, gearing for compounding the advancing motion of said plate with the indexing motion of said gear train, said gear train having one set of gears determining the number of teeth cut in the work and having a second set of gears determining the pitch of such teeth.

1,684,100. PROCESS OF MANUFACTURING RUBBER ARTICLES. RICHARD F. KINSLEY, Chicago, Ill., assignor to Dryden Rubber Company, Chicago, Ill., a Corporation of Illinois. Filed May 9, 1924. Serial No. 714,195. 1 Claim. (Cl. 18—59.)



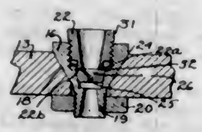
The process of forming rubber heels from ground waste vulcanized rubber including forming partially cured blanks therefrom of smaller area but greater thickness than the finished article, inserting these blanks in a mould placing a layer of rubber material thereon of greater plasticity and lesser elasticity than that of the blank and subjecting the whole to heat and pressure to produce the finished article.

1,684,101. INDICATING MECHANISM. JOSEPH LAWSON, Great St. Helens, London, England, assignor to Asiatic Petroleum Company, Limited, St. Helens Court, London, England. Filed Jan. 3, 1928, Serial No. 244,340, and in Great Britain Sept. 24, 1926. 12 Claims. (Cl. 235—94.)



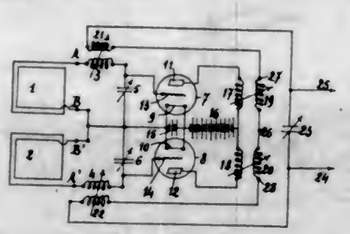
9. In an indicating mechanism, the combination of a setting indicator comprising an indicator drum, energy storing means within said drum energized by manual actuation of said setting indicator, release escapement means for said drum, a delivery indicator comprising a drum operated by said energy storing means upon actuation of said escapement means.

1,684,102. WIRE-DRAWING APPARATUS. BENNO B. LEUSTIG and JOSEPH D. PETSCHE, Cleveland, Ohio. Filed Nov. 9, 1925. Serial No. 67,774. 2 Claims. (Cl. 205—25.)



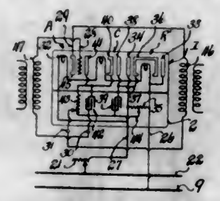
1. In a device of the character described, the combination of a support, a holder mounted in the support in the form of a sleeve having a tapered exterior occupying a tapered opening of the support and having a threaded portion projecting beyond the support, a nut screwed onto said threaded portion to clamp the holder in the support, said holder having a die cavity, a button die in said cavity, the holder having an enlarged recess beyond the cavity internally threaded, and a nut screwed into such internal thread and bearing against the end of the button die.

1,684,103. ELIMINATION OF WIRELESS PARASITIC CURRENTS. LUCIEN LEVY, Paris, France. Filed Nov. 24, 1924, Serial No. 751,907, and in France Nov. 30, 1923. 9 Claims. (Cl. 250—20.)



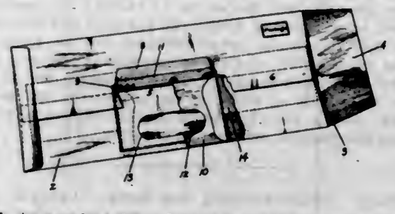
1. An antiparasitic system of wireless telephonic and telegraphic transmission comprising two receiving circuits symmetrically distuned with respect to the waves to be received, means for symmetrically amplifying the energy from said circuits, a third circuit and means to oppose the amplified energies in said third circuit at radio frequencies.

1,684,104. ELECTRON-DISCHARGE DEVICE. ARISTOTE MAVROGENIS, Milwaukee, Wis. Filed Feb. 21, 1927. Serial No. 169,876. 4 Claims. (Cl. 250—27.5.)



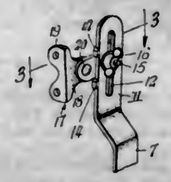
1. A unitary electron discharge device including an evacuated vessel, an audion mounted within said vessel and having a plate, a cathode and an interposed grid, a rectifier mounted within said vessel for supplying energy to said audion, means carried by and forming a unitary portion of said device for impressing a negative voltage on said grid with reference to the cathode of said audion, and means for smoothing out the pulsations in the energy supplied by said rectifier.

1,684,105. ENVELOPE. OSCAR J. OLM, Minneapolis, Minn., assignor to Northwestern Paper Goods Company, St. Paul, Minn., a Corporation of Minnesota. Filed Oct. 24, 1921. Serial No. 510,067. 17 Claims. (Cl. 229—72.)



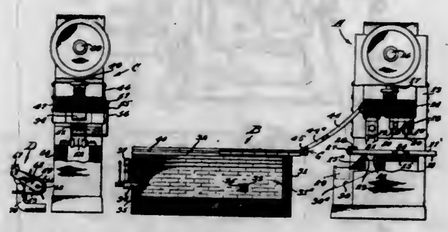
17. An envelope formed from a single piece of material having substantially equal side walls, a slit in one of said walls located in a region substantially removed from the edges of said wall, and a flap formed on said wall adjacent to the slit adapted to be sealed to said wall over the slit.

1,684,106. ADJUSTABLE BACK REST FOR CHAIRS. PERCY W. OLSON, St. Paul, Minn., assignor to William S. Ferris, Elkhart, Ind., trading as The Domore Chair Company. Filed Feb. 18, 1927. Serial No. 169,179. 2 Claims. (Cl. 155—157.)



1. An adjustable back rest for chairs including a side arm having a longitudinal slot in one end thereof, a plate associated with each arm end and having parts to engage an edge of the arm end to hold the plate at a right angle thereto, means passing through said plate and slotted arm end to adjustably secure said plate thereto and a member pivoted to said plate and to which a back rest member is attached.

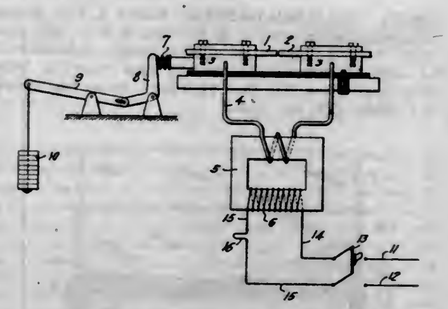
1,684,107. MEANS FOR AND METHOD OF FORMING TIE-PLATES. MELVIN OVESTRUD, Stillwater, Minn., assignor to Twin City Forge & Foundry Company, Stillwater, Minn., a Corporation of Minnesota. Filed Apr. 29, 1925. Serial No. 26,671. 8 Claims. (Cl. 29—34.)



1. Means for forming tie-plates of the character described from a steel blank comprising an elongated body plate formed with a flange longitudinally thereof, said means including a press for punching spike holes in the body of said blank and shearing the blank transversely to sever punched sections therefrom, a furnace adapted to slidably receive a train of tie-plate sections and heat the flanges thereof, a second press for bending the heated flanges of the respective sections into jaw forming relation, said furnace constituting the conveying medium between said first and second presses, and means actuated by said first press for propelling tie-plate sections through said furnace.

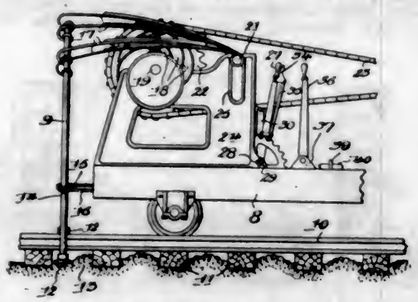
7. A tie plate forming machine comprising a punch press including a bed and a ram for punching and shearing tie plate sections, a furnace positioned in proximity to said press having a guide along the upper portion thereof for guiding tie plate sections during the passage of the same along said furnace, said guideway being arranged to convey the tie plates in the same direction as the movement of said tie plates across said punch press bed, a feeder bar hingedly connected at one end to said ram and slidably mounted at its other end along said guideway, said feeder bar being adapted to simultaneously move the tie plates mounted on said guide way along said furnace upon reciprocation of said ram.

1,684,108. ELECTRIC WELDING. GEORGE H. PHELPS, Warehouse Point, Conn., assignor to Thomas E. Murray, Brooklyn, N. Y. Filed Oct. 22, 1921. Serial No. 509,459. 2 Claims. (Cl. 219—4.)



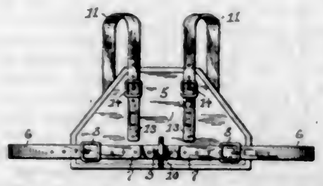
1. A high speed electric welding apparatus including in combination means for pressing the parts together and means for passing a welding current between them to weld their faces directly to each other and a circuit breaker in the welding circuit adapted to break the circuit immediately upon the current's reaching normal amperage.

1,684,109. TRACK-TAMPING MACHINE. ERNEST E. PETERSON, South Hibbing, Minn. Filed May 31, 1927. Serial No. 195,282. 10 Claims. (Cl. 104—12.)



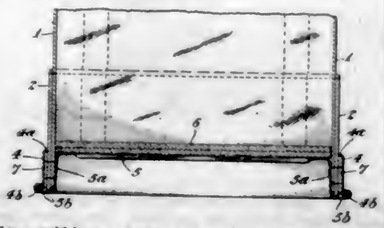
1. In a machine for tamping a railway road bed between ties, adapted to be mounted on a railway car, a power driven shaft on said car, a series of pivoted arms projecting substantially horizontally from an end of said car, means operatively connecting said arms to said shaft for imparting oscillating movement to said arms and a series of tamping members severally connected to said arms and extending downward therefrom beyond the end of said car, said members being arranged to be actuated thereby to tamp the road bed between ties of the track.

1,684,110. BABY HARNESS. ALBERT STEVENSON PICKLES, Providence, R. I. Filed Aug. 8, 1927. Serial No. 211,438. 2 Claims. (Cl. 155—189.)



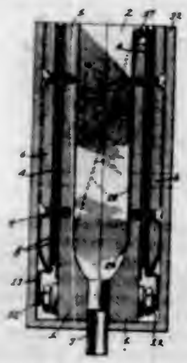
1. A baby harness having a back pad, a waist strap adjustably secured to the back pad, shoulder straps fixed to the waist strap and adjustably secured to the back pad, a breast strap slidable on the shoulder straps, means for adjustably securing the waist strap to the back pad and means for adjustably securing the shoulder straps to the back pad.

1,684,111. GOLF-BAG BOTTOM. HENRY V. RAU, Brooklyn, N. Y., assignor to A. G. Spalding & Bros. Inc., New York, N. Y., a Corporation of New Jersey. Continuation of application Serial No. 36,915, filed June 13, 1925. This application filed Dec. 17, 1925. Serial No. 75,942. 5 Claims. (Cl. 150—1.5.)



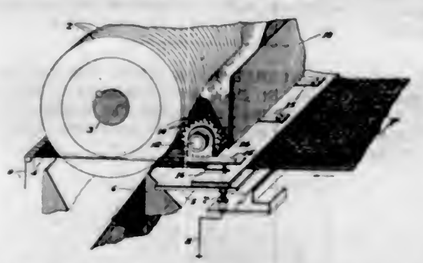
1. In a golf bag, a body, a shoulder formed on said body, a member secured to an end of said body and formed of two parts held together by a spun seam, said member being attached to the bag by having a part engaging the shoulder on the body.

1,684,112. PREHEATER FOR TYPE AND LEAD CASTING MACHINES. RICHARD J. ROBERTS, San Francisco, Calif. Filed Sept. 24, 1927. Serial No. 221,745. 6 Claims. (Cl. 219—19.)



6. A preheater for lead and slug casting machines comprising a pair of cast iron blocks secured together and having matching recesses formed in their adjacent faces to form a chamber arranged to receive pigs of casting metal; a pair of metal plates secured upon opposite outer faces of the blocks; electrical heating units mounted between the plates and the blocks, said units being arranged to be connected to a source of electrical energy for heating the chamber; a cut out switch connected between the units and the source of energy; an automatic control lever mounted within the chamber and arranged to be held in cut out circuit breaking position by metal within the chamber; and means actuated by the lever and the cut out switch for automatically breaking the circuit when the supply of metal to the chamber is not maintained; and a heat insulating casing substantially enclosing the chamber and heating elements.

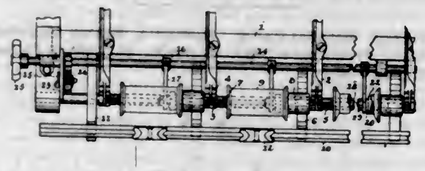
1,684,113. PILE-CUTTING MACHINE. CHARLES ANDREW ROBINSON, Lowell, Mass., assignor to Merrimack Man'f'g Co., Lowell, Mass., a Corporation of Massachusetts. Filed Feb. 7, 1927. Serial No. 166,306. 5 Claims. (Cl. 26—10.)



1. In a machine for cutting the threads of fabrics to form a pile thereon, the combination with a cutter and a guide therefor adapted to enter the fabric between the body portion thereof and the pile forming threads, of a toothed contact disk, and means for supporting said disk in cooperative relationship to said guide.

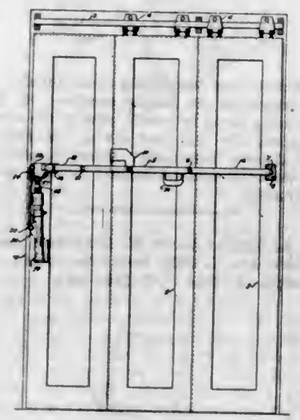
1,684,114. WINDING MACHINE. CHRISTIAN L. SAAL, Paterson, N. J., assignor of one-fourth to William Laessig, Paterson, N. J. Filed Apr. 29, 1927. Serial No. 187,585. 5 Claims. (Cl. 242—39.)

1. In combination, a frame, rotary driving means therein having its axis substantially horizontal, the frame having means for supporting the cores of the packages to be formed in contacting relation to but so as to be movable from the driving means, a row of ejector devices arranged to be engaged by the peripheries of the wound



masses of the respective packages in the winding thereof and on such engagement shift the packages away from the driving means, and a common support for all the ejectors adjustable in the frame to move the ejector simultaneously toward or from the packages.

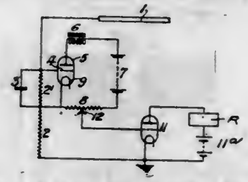
1,684,115. CLOSURE OPERATOR FOR SLIDING DOORS. HAROLD W. SHONNARD, Upper Montclair, N. J., assignor to Elevator Supplies Company, a Corporation of New Jersey. Filed May 6, 1927. Serial No. 189,290. 9 Claims. (Cl. 268—52.)



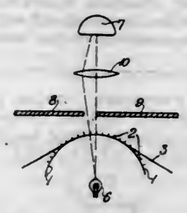
1. In a door operating structure for horizontally sliding doors, means for closing said door comprising a power unit, a lever connecting said power unit with the door, a pivot bearing about which said lever turns while said door is opening or closing, a supporting lug for said power unit, manual means for opening said door against the resistance of said power unit, and means for relatively disposing said pivot bearing and said supporting lug so as to cause the resistance offered by said power unit to increase continuously from a minimum value at the initiation of the opening movement to a maximum toward the end of the opening movement.

1,684,116. CABLE TELEGRAPHY AND THE LIKE. WILLOUGHBY STATHAM SMITH, Benchams, Newton Poppleford, and NORMAN WILLIAM MCLACHLAN, London, England. Filed Dec. 27, 1927, Serial No. 242,808, and in Great Britain Aug. 23, 1926. 12 Claims. (Cl. 178—63.)

1. In a cable telegraph or the like receiver, the combination of an impedance located in the common path of signal currents and low frequency disturbances, said impedance comprising a plurality of sections whose reactances at a given frequency are different, and means for applying to a receiving device a compensating voltage change of opposite effect to a voltage change applied thereto by a disturbance, said means comprising thermionic means associated on the input side with one of said sections and on the ouput side with said receiving device.

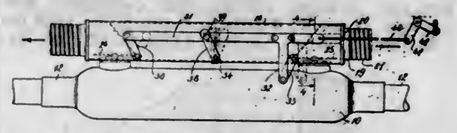


1,684,117. TELEGRAPH SYSTEM AND CIRCUIT ARRANGEMENT THEREFOR. WILLOUGHBY STATHAM SMITH, Newton Poppleford, and NORMAN WILLIAM MCLACHLAN and WILLIAM GORDON REED JACOB, London, England. Filed Jan. 21, 1928, Serial No. 248,462, and in Great Britain Sept. 21, 1926. 12 Claims. (Cl. 178—17.)



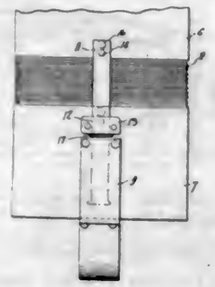
1. A telegraph transmitter comprising in combination means for radiating light, light sensitive means in the path of said light, means located between said light radiating means and said light sensitive means for interrupting said light, telegraph tape associated with said interruption means for permitting or preventing light from falling upon said light sensitive means in accordance with the signals punched upon said tape, and adjustable means for limiting the period during which light may fall upon said light sensitive means.

1,684,118. AUTOMOBILE HEATER. SAMUEL A. SNELL, Detroit, Mich., assignor to Frederick C. Matthaei, Detroit, Mich. Filed July 3, 1926. Serial No. 120,500. 7 Claims. (Cl. 257—241.)



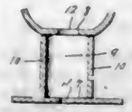
6. A heating device which comprises the combination of a heating element through which a hot medium may be passed, a passage in the element through which air may be led to be heated by the hot medium, a tube disposed adjacent the element, a pipe leading from one end of the tube to a delivery point, an air intake at the oposite end of the tube, connections leading from the tube near opposite ends thereof to opposite ends of the air passage in the heating element, dampers pivotally mounted within the tube one near each connection, each damper including a pair of plates and being movable to a position in which one plate closes the connection while the tube is left open, and to a second position in which the other plate closes the tube while the connection is left open, linkage connecting the dampers to cause them to move in unison from one position to the other, and means for moving the dampers from one position to another.

1,684,119. ACCORDION-LOCKING MEANS. FRANK UMBIACO, New York, N. Y. Filed Mar. 8, 1927. Serial No. 173,658. 2 Claims. (Cl. 84—376.)



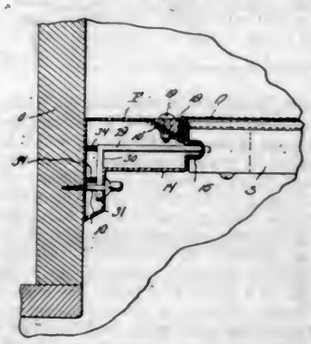
1. In an accordion provided with bellows intermediate its sections, a guide plate provided with a slot therein secured to one of the sections, a movable locking plate passing through the said slot and provided with an opening near one end thereof, a stud in the other section passing through the said opening for releasably maintaining the locking-plate in locking position therewith and a stop on the locking-plate to limit the movement thereof in locking direction.

1,684,120. WIRE FASTENER. GEORGE F. VOIGHT, Oakland, Calif., assignor to Economy Products Corporation, a Corporation of California. Filed Jan. 16, 1926. Serial No. 81,710. 8 Claims. (Cl. 72—120.)



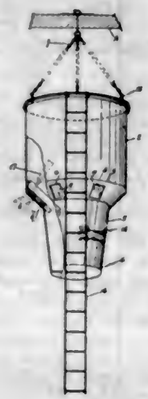
2. In a wire fastener of the character described, a strip of sheet metal having opposite ends struck over flat ways to the same side, thereby forming a base plate, a lath supporting plate and an intermediate portion, said lath supporting plate having a plurality of lath retaining extensions extending upwardly and a cooperating nail projecting through said plates between said extensions, said nail having a head adapted to engage and bind a lath wire on said lath supporting plate between one of said extensions and the body of said nail.

1,684,121. SCREEN DEVICE FOR CASEMENT WINDOWS. AMOS W. WENTZELL, Salem, N. J. Filed Oct. 30, 1926. Serial No. 145,238. 2 Claims. (Cl. 156—14.)



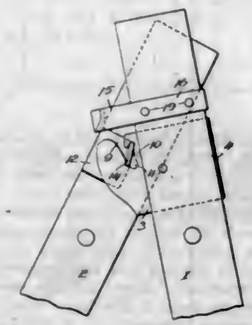
2. In a window screen frame structure of the class described, a frame member comprising a hollow side rail provided with a hollow tenon extending inwardly and longitudinally of said frame, a lateral hollow flange on one side of the rail, said rail having a recess exteriorly of the frame, and a bar in the recess for holding a portion of mesh sheet in the recess besides reinforcing the hollow rail.

1,684,122. GUARD CAGE. EDWARD A. BAKER, Mansfield, Ohio. Filed Aug. 6, 1927. Serial No. 211,199. 8 Claims. (Cl. 89—36.)



7. In a guard cage comprising three tubular members, means for connecting the tubular members, the intermediate member being flared to permit viewing the area beneath and surrounding the cage and having openings provided therein and slidable transparent closure members movably secured to the intermediate member to close or partially close the openings.

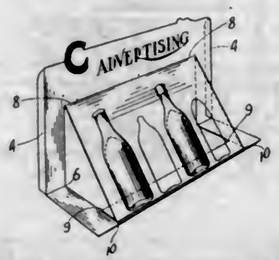
1,684,123. LADDER. DAVID W. BOARDMAN, Los Angeles, Calif. Filed Jan. 7, 1926, Serial No. 79,863. Renewed Feb. 16, 1928. 1 Claim. (Cl. 228—25.)



In combination with a pair of ladder sections, of cooperating means associated with the upper ends thereof to provide a hinge whereby the ladder sections are adapted to form an A-type ladder, said means further acting as a lock to prevent the accidental collapsing of the A-type ladder, the aforementioned means comprising a plate secured on the inner face of each side rail of one of the ladder sections, the forward portion of the plate projecting beyond the forward edge of the respective side rail and being provided with a diagonally disposed slot which extends downwardly from the upper forward edge of the plate, the forward portion of the plate being further provided with an additional diagonally rearwardly disposed slot, the same

being disposed at an angle with respect to the aforementioned diagonal slot and communicating therewith, the lower rear portion of the last mentioned slot being wider than the upper portion thereof, the respective sides of the slots being cut away at the juncture of said slots to provide a relatively wide entrance to the last mentioned diagonally disposed slot, an additional plate secured to the inner face of each of the side rails of the complementary ladder section, an obliquely disposed pintle extending laterally from said last mentioned plate, said pintle adapted to pass through the first mentioned diagonal slot when the ladder sections are arranged in a predetermined manner, the ladder sections being further locked in A-type formation when the pintle is disposed in the last mentioned diagonal slots in a predetermined manner.

1,684,124. DISPLAY STAND. JOSEPH EDWIN BURGESS, Astoria, N. Y., assignor to The United States Printing & Lithograph Company, Brooklyn, N. Y., a Corporation of Ohio. Filed Oct. 1, 1927. Serial No. 223,367. 1 Claim. (Cl. 211—157.)



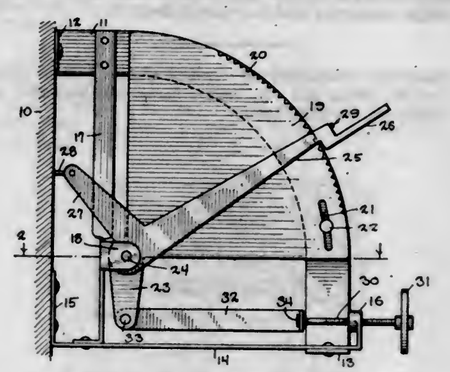
A display stand formed of a single sheet cut in parallel vertical lines spaced from the sides and substantially parallel therewith, and said vertical cut lines terminating at the same distance from the top and bottom respectively of the sheet and connected at their upper ends, at their lower ends and between their upper and lower ends by foldable transverse lines parallel to each other, and the portions of the sheet outside said vertical cut lines being formed with transverse foldable lines in the same line, between and parallel to the upper and lower foldable lines of the medial cut out portion so that when the side portions are bent on their transverse foldable lines, the upper portions thereof will stand upright and the lower portions thereof will lie in the horizontal plane and the medial cut out portion when bent on its upper, lower, and medial transverse lines will extend on an inclination from its upper transverse line to its medial transverse line, and the lower part of the cut out portion, between its medial and lower transverse lines, will rest upon the lower part of the sheet below said lower foldable line.

1,684,125. ATOMIZABLE MOBILE FUEL PRODUCT. ARTHUR W. BURWELL, Niagara Falls, N. Y., assignor to Alox Chemical Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 2, 1927. Serial No. 172,214. 8 Claims. (Cl. 44—8.)

1. Process which comprises producing a petroleum soluble, non-aqueous mobile colloidal gel from a normally liquid petroleum hydrocarbon mixture and suspending in said non-aqueous mobile colloidal gel finely divided solid fuel.

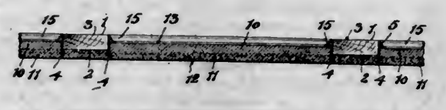
1,684,126. FUEL-CONTROL MECHANISM FOR INTERNAL-COMBUSTION ENGINES. EDWARD L. CORMAN, Upland, Calif. Filed Nov. 20, 1926. Serial No. 149,728. 1 Claim. (Cl. 74—39.)

A control mechanism for operating the throttle valve of internal combustion engines comprising a support for attachment to an instrument board, a plate pivotally mounted on the support for swinging movement, a control lever pivotally mounted upon the plate and having an extension arm connected to the throttle extension rod, the said lever being adjustable independently of the plate and embodying



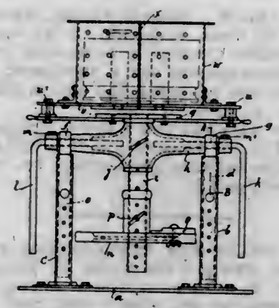
locking means for engagement therewith, and an auxiliary control mechanism operatively connected with the plate and adjustable to swing the plate and control lever simultaneously to permit accurate adjustment of the throttle valve.

1,684,127. BUILDING CONSTRUCTION. JOHN E. DE BAUN, Saddle River, N. J. Filed June 21, 1927. Serial No. 200,411. 5 Claims. (Cl. 72—46.)



1. In a building construction, a wall formed of a plurality of spaced studs, metal stanchions secured to the edges of said studs, said stanchions being provided with a plurality of L-shaped slots, L-shaped lathing extending through said slots and supported by the stanchions, and plastic covering placed over and surrounding said lathing.

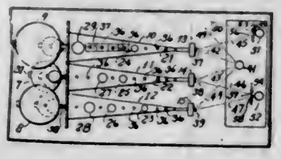
1,684,128. DEVICE FOR BRINGING AND HOLDING HEAVY WELDING PIECES IN A SUITABLE POSITION DURING THE WELDING PROCESS. EMIL OSKAR EDELMANN, Elberfeld, Germany. Filed Aug. 18, 1926, Serial No. 129,976, and in Germany Aug. 20, 1925. 4 Claims. (Cl. 248—5.)



1. A device for the purpose described comprising a foundation plate, spaced apart hollow supports, tubular members adjustable in said supports and terminating in tubular

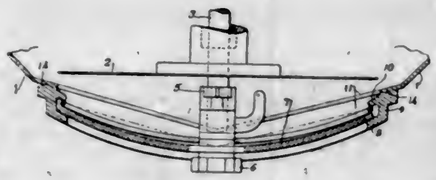
portions forming clamping devices, a hollow shaft selectively rotatable in said clamping devices and rigid with a cross-shaped middle portion, right angled curved arms received in the ends of said hollow shaft, a vertically disposed shaft extended through said cross portion, and a counter weight carried by said last named shaft.

1,684,129. PHONODYNE. EDWIN HOPKINS, New York, N. Y. Filed Mar. 18, 1922. Serial No. 544,928. 19 Claims. (Cl. 179—100.1.)



1. The process of sound recording which comprises transforming the air waves into vibrations in another medium, in selecting from such vibrations a plurality of stages and in recording each of said stages independently.

1,684,130. GASOLINE PUMP. EARL E. EICKMEYER, Dayton, Ohio, assignor to The Dayton Pump & Mfg. Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 13, 1927. Serial No. 183,422. 1 Claim. (Cl. 116—129.)



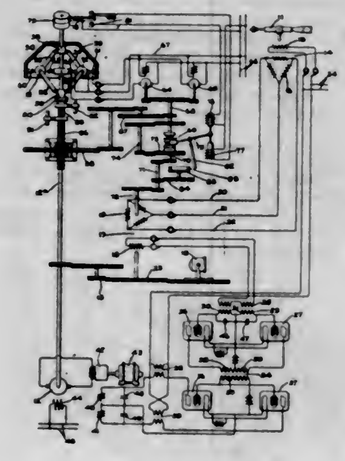
An article of manufacture for use in connection with gasoline dispensing pumps consisting of an angular bezel plate, a frame member mounted thereon, means to retain a glass in said frame member and a glass mounted therein having a vertical face transversely curved.

1,684,131. ALLOY. RUSSELL FRANKS, Elmhurst, and BURNHAM E. FIELD, Douglaston, N. Y., assignors to Haynes Stellite Company, a Corporation of Indiana. Original application filed Jan. 8, 1925, Serial No. 1,305. Divided and this application filed Mar. 5, 1926. Serial No. 92,584. 3 Claims. (Cl. 75—1.)

1. An alloy containing from 3 to 5% aluminum, 3.5 to 6% silicon, 5 to 12% tungsten, 6 to 12% titanium, boron in substantial and effective amounts up to 1%, the balance being principally nickel.

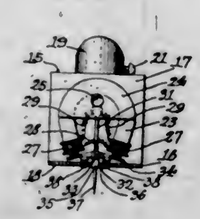
1,684,132. MEANS FOR REPRODUCING POSITION. EDWARD M. HEWLETT and WALDO W. WILLARD, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Nov. 30, 1925. Serial No. 72,201. 26 Claims. (Cl. 172—239.)

3. Means for driving an object into positional agreement with a controlling object, comprising a driving motor for said driven object, control means for said motor operated by said objects to cause said motor to drive the driven object into positional agreement with the controlling object, and auxiliary means responsive to the movement of said driven object for actuating said control means to anticipitate the final position of said driven object so as to bring said driven object to rest in positional agreement with said controlling object without overrunning.



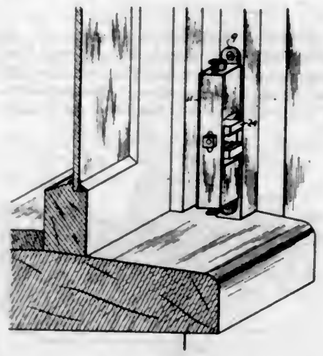
6. Means for driving an object into positional agreement with a controlling object, comprising a driving motor for said driven object, control means for said motor actuated by said objects to cause said motor to drive the driven object into positional agreement with the controlling object, and auxiliary means responsive to the movement of said driven object for actuating said control means to anticipitate the final position of said driven object so as to bring said driven object to rest in positional agreement with said controlling object without overrunning.

1,684,133. REPRODUCER. HILDA M. LARSON, Tacoma, Wash. Filed Apr. 16, 1927. Serial No. 184,368. 3 Claims. (Cl. 179—100.1.)



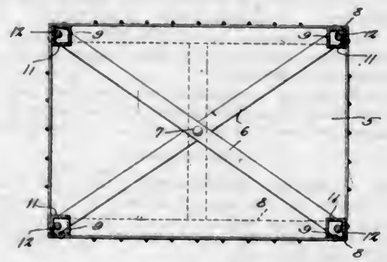
1. In a device of the class described, a sleeve provided with an abutment, an angle bracket comprising main and auxiliary flanges, a magnet disposed against the main flange, a retainer cooperating with the magnet, a securing element passing through the retainer, the main flange and the magnet, and engaging the abutment, coils on the poles of the magnet, an armature pivoted intermediate its ends and cooperating with the poles of the magnet, and means carried by the auxiliary flange for limiting the movement of the armature, the armature being supplied with a needle holder.

1,684,134. STORM-WINDOW FASTENER. CHARLES LE MESURIER, Campbellton, New Brunswick, Canada. Filed Mar. 7, 1927. Serial No. 173,370. 6 Claims. (Cl. 292—32.)



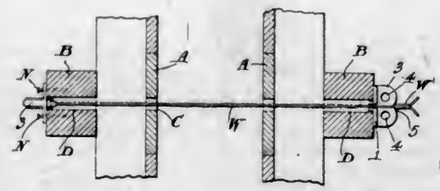
1. In a fastener of the class described, a casing, jaws mounted centrally of said casing and slidably therein, guiding means to direct the jaws in either opened or closed position, and pressure means back of said jaws to maintain them under tension.

1,684,135. KNOCK-DOWN COOP. JAMES H. LIPSCOMB, Bokchito, Okla. Filed Sept. 23, 1927. Serial No. 221,527. 2 Claims. (Cl. 220—6.)



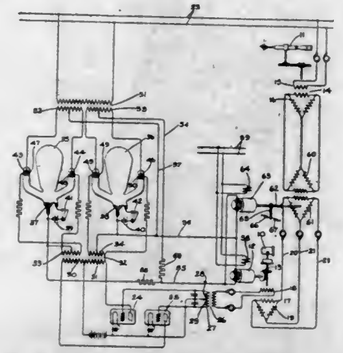
1. A shipping crate for shipping live stock including a bottom section, side and end sections, the side and end sections being formed of wire mesh material, said side end sections including vertical end angle bars arranged with their open sides disposed outwardly, bolts extending through the sections for holding the sections together, the angle bars at the ends of the sections defining housings, and a cover constructed of wire mesh material for closing the upper portion of the crate.

1,684,136. TIE LUG. JAMES A. LYNCH, Los Angeles, Calif. Filed Jan. 9, 1928. Serial No. 245,437. 6 Claims. (Cl. 25—131.)



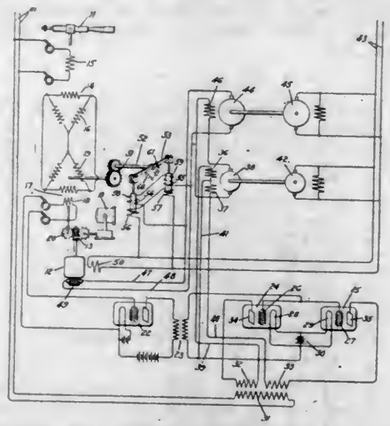
4. The combination with a form member having an opening therein, of a tie wire extending through the opening, a tie lug having a base provided with slots extending therein from the periphery thereof, a wing extending from the base between the slots, said wire being looped over the wing and having opposed portions seated in the slots, there being an aperture in the wing for the reception of a turning tool, and fastening means extending through one of the slots into the form member for holding the lug against rotation.

1,684,137. MEANS FOR REPRODUCING POSITION. ALBERT H. MITTAG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 30, 1925, Serial No. 72,177. Renewed Jan. 26, 1928. 9 Claims. (Cl. 172—239.)



1. Means for driving an object in accordance with the movements of a controlling object, comprising a driving motor for said driven object, means comprising a vapor electric device for supplying current to said motor, and means responsive to the movements of said controlling object for controlling said vapor electric device so as to cause said motor to drive said driven object into positional agreement with said controlling object.

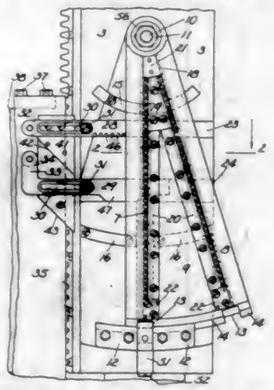
1,684,138. MEANS FOR REPRODUCING POSITION. SAMUEL P. NIXDORFF, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York Filed Sept. 29, 1925, Serial No. 59,409. Renewed Jan. 26, 1928. 13 Claims. (Cl. 172—239.)



2. Means for driving an object into positional agreement with a remote controlling object, comprising an electric driving motor for said driven object, control means for said motor actuated by said object to cause said motor to drive the driven object into positional agreement with

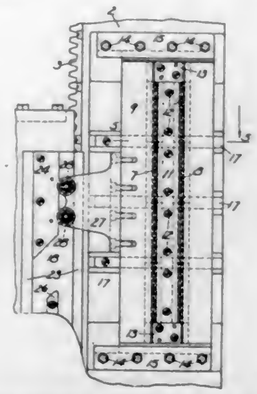
the controlling object, and electrical means responsive to the energization of said motor acting upon said control means so as to reduce the speed of said motor to prevent overrunning.

1,684,139. BROACH MECHANISM. JOHN OAKLEY and HIRAM D. CROFT, Springfield, Mass., assignors to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Filed Apr. 2, 1927. Serial No. 180,380. 8 Claims. (Cl. 90—33.)



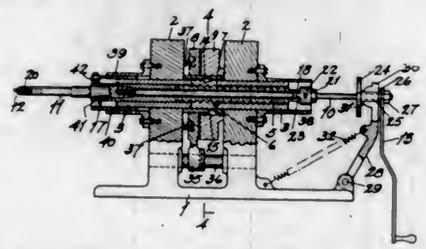
3. The combination, in mechanism of the class described, with a reciprocating member provided with a horizontal pivot, of a holder mounted to swing in a vertical plane of said pivot, said holder being for lengthwise radial broaches, and capable of independent movement relative to said member, means automatically to change the position of said holder, each time said member approaches either end of its travel, to locate one of said broaches vertically in cutting position and the other in angular relation thereto, and then to locate the second broach vertically in cutting position and the first broach in angular relation thereto, and means automatically to lock said holder when disposed with either broach in vertical position, and to release the same after the cut has been made.

1,684,140. BROACH MECHANISM. JULIAN L. PERKINS, West Springfield, and HIRAM D. CROFT, Springfield, Mass., assignors to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1927. Serial No. 181,841. 9 Claims. (Cl. 90—33.)



2. The combination, in mechanism of the class described, with a reciprocating member having a flat face, of a holder, for parallel broaches, mounted for independent lateral movement on said face, and means automatically to shift the position of said holder, each time said member approaches either end of its travel, whereby said broaches are alternately positioned in the cutting field.

1,684,141. FEED MECHANISM. JULIAN L. PERKINS, West Springfield, and HIRAM D. CROFT, Springfield, Mass., assignors to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Filed June 11, 1927. Serial No. 198,186. 15 Claims. (Cl. 90—56.)



1. In feed mechanism of the class described, a rotary member provided with work-carrying means, means to cause said member to move longitudinally when rotated, and yielding means to apply pressure to said member in the direction of its axis without preventing the rotation of the member whenever sufficient force is applied thereto.

1,684,142. PROCESS OF PREPARING PHENOL-FORMALDEHYDE CONDENSATION PRODUCTS. GRIGORI PETROFF, Moscow, Russia, and PETER SHESTAKOFF, Paris, France. Filed Dec. 30, 1925. Serial No. 78,485. 6 Claims. (Cl. 260—4.)

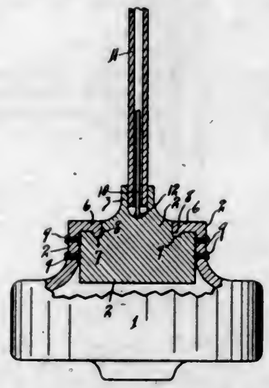
1. In the process of preparing condensation products of phenols with formaldehyde, the step which comprises carrying out the process in the presence of powdered metals.

1,684,143. DENTAL INSTRUMENT. OSCAR H. PIEPER and CHARLES R. METZLER, Rochester, N. Y., assignors to Oscar H. Pieper and Alphonse F. Pieper, Rochester, N. Y. Filed Dec. 16, 1926. Serial No. 155,149. 9 Claims. (Cl. 174—89.)



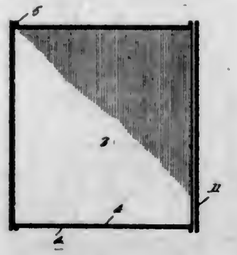
1. In a dental instrument, the combination of a body part and a tip, said body part comprising a central contact and terminal rod, a contact and conductor sleeve concentric with said rod, insulating material supporting said conductor members and insulating them from each other, said conductor sleeve at its outer end forming a terminal socket, said tip comprising a body part having plug engagement in said socket and a terminal sleeve for said tip for receiving the end of said conductor rod, and a heat generating member connected to said tip frame and sleeve, the outer end of said body part conductor sleeve and rod being adapted for connection with circuit terminals.

1,684,144. CEILING-FAN HANGER. BRUCE C. RETTIG, Fort Worth, Tex. Filed Aug. 27, 1926. Serial No. 131,928. 2 Claims. (Cl. 248—30.)



1. A fan hanger comprising a motor casing having inwardly projecting lugs on the upper end thereof, a head having vertical grooves in the periphery thereof and seats in the upper surface thereof and cavities in the bottom parts of said seats, tips on the bottom parts of said lugs occupying said cavities, and set screws for securing said head in said casing.
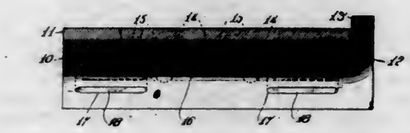
1,684,145. REFRIGERATOR LINING AND METHOD OF MAKING. RUDOLPH A. RIEK, Rhinelander, Wis. Filed June 10, 1924. Serial No. 719,204. 3 Claims. (Cl. 113—116.)



1. The method of assembling sheets of metal which consists in bending a metal sheet to provide flanges along two opposed edges, bending the sheet of metal along lines extending transversely of the flanges, thereby to provide three angularly disposed walls with the flanges extending continuously along opposed free edges thereof and extending outwardly from the walls, thereafter applying flat sheets of metal to the outer faces of the flanges, the edges of said sheets being substantially flush with the free edges of the flanges and said sheets being supported in planes substantially parallel with the planes occupied by the flanges, joining the marginal portions of said sheets to the flanges by spot welding, and finally producing a continuous unbroken weld between each flat sheet and the flanges contacted thereby, thereby to produce a continuous sealed joint extending from one end to the other of the flange and along three edges of the applied sheet.

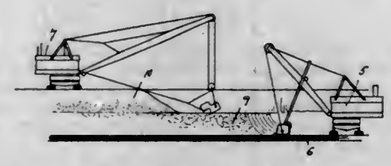
2. A sheet metal lining structure for refrigerators including a single sheet of metal, parallel flanges extending from one end to the other of said sheet at opposed sides thereof, the said sheet being bent transversely along lines extending across the flanges to provide a back and opposed side walls, each flange occupying a plane at right angles to the plane occupied by the back and side walls and being extended outwardly from said walls and from the angles formed thereby, and flat metal sheets bearing upon the outer faces of the flanges at the respective sides of the bent sheet, said flat sheets being parallel with the planes occupied by the flanges and being joined to said flanges by continuous unbroken welds extending throughout the width and length of the flanges and past the angles formed by the bent sheet, thereby providing unbroken sealed connections between the sheets.

1,684,146. RAILWAY JOURNAL BEARING. CHARLES TREscott RIPLEY, Chicago, Ill., assignor to S. & T. Metal Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1925. Serial No. 77,476. 2 Claims. (Cl. 308—242.)



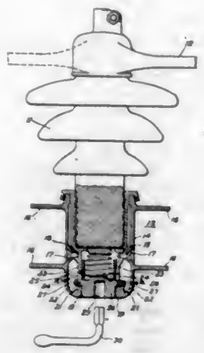
1. A journal bearing the body of which is composed of an anti-friction metal alloy of sufficient tensile strength at normal temperatures to withstand the stresses on the bearing and which has a a surface portion shaped for contact with the journal of uniform composition with the rest of said body, in combination with a cover plate composed of metal having a higher melting point than the anti-friction metal body, the bearing face of said anti-friction metal body being recessed and the recess filled with a material of a lubricating character having a melting point approximately the same as the melting point of the anti-friction metal whereby in case the anti-friction metal body melts, the journal will be coated with said lubricating material to prevent freezing of the anti-friction metal to the journal.

1,684,147. METHOD OF STRIPPING. WILLIAM C. ROBERTS, Duquoin, Ill.; Flossie Roberts executrix of said William C. Roberts, deceased. Filed Dec. 17, 1926. Serial No. 155,540. 1 Claim. (Cl. 37—195.)



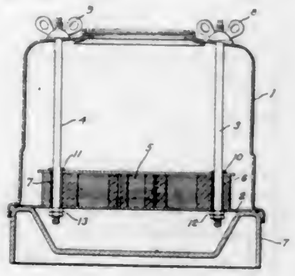
The improved method of stripping overburden which consists first, in removing the top soft portion of the overburden by excavating along the wall of a pit in a direction substantially parallel to said wall and simultaneously sloping said wall upwardly and outwardly to prevent cave-ins; second, in removing the lower hard portion of the overburden by excavating in a direction substantially parallel to the wall of said pit.

1,684,148. DISCONNECTING SWITCH. FRITZ RONNEBERGER, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 16, 1927, Serial No. 168,572, and in Germany Feb. 19, 1926. 11 Claims. (Cl. 200—42.)



1. In combination, an insulator, an electrical device cooperating therewith, and a support for the insulator comprising an outer socket member having a stop member formed thereon, an inner socket member having a slot formed therein, and a locking means cooperating with the socket members and comprising an arm extending through the slot into engagement with the stop member.

1,684,149. WATTHOUR METER. ARGYLE R. RUTTER, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1926. Serial No. 149,319. 8 Claims. (Cl. 171—264.)



6. In combination in a meter, a magnetizable core, means for producing an alternating flux in said core, and a current path comprising a cover and supporting structure, the alternating flux in said core linking said path, of means for reducing the magnitude of the current induced in said path by said flux.

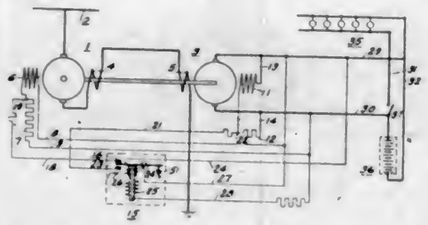
1,684,150. ADJUSTABLE-LENGTH TIE. MAX SCHACHTER, New York, N. Y. Filed Mar. 26, 1927. Serial No. 178,522. 1 Claim. (Cl. 2—155.)

An adjustable tie comprising two separable sections, one of said sections having an open loop at one end and the corresponding end of the second section being overlapped on itself and provided with an open pocket adapted to receive the end of a pointed instrument therein whereby it may be inserted with said instrument within the open loop of the first mentioned section for



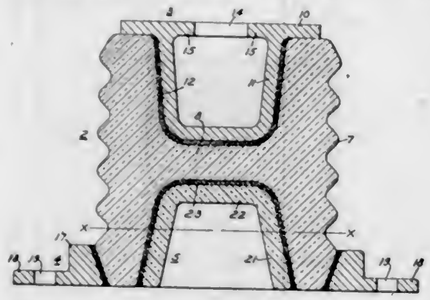
adjustment relative thereto and a separable, outside fastening element for connecting the two interconnected sections when adjusted.

1,684,151. VOLTAGE REGULATOR. WALTER SCHAELCHLIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 28, 1926. Serial No. 84,304. 9 Claims. (Cl. 171—229.)



1. In a regulator system, a motor, a generator driven thereby, a field winding for said motor and a field winding for said generator, and means actuated in accordance with the generator voltage for short-circuiting said field windings.

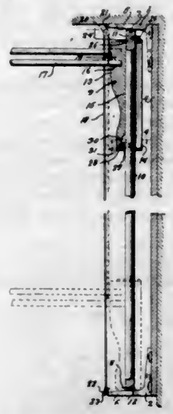
1,684,152. INSULATOR. WALTER H. SCHRAMM, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 10, 1927. Serial No. 174,131. 5 Claims. (Cl. 173—318.)



1. An insulator subject to cantilever load comprising an insulating member having a cupped base end and means for reinforcing the same against normal load fracture including a cupped insulating member in said end.

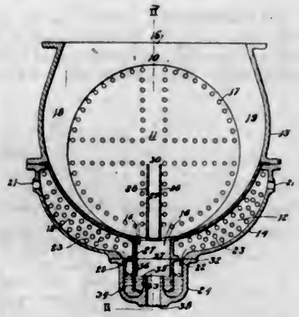
1,684,153. CLOTHES-DRYING RACK. CHARLES FRANKLIN SMITH, Tacoma, Wash. Filed Apr. 25, 1927. Serial No. 186,442. 1 Claim. (Cl. 211—101.)

In a clothes drying rack, upper and lower bracket members comprising attaching portions adapting them to be secured to a support, the said bracket members including outstanding arms, studs projecting from the under and upper sides of the arms of the upper and lower brackets respectively, a standard extending vertically between the said arms of the bracket members and having socketed ends engaging said studs, a head having a channel in its rear side, the head being slidably assembled with said standard with the wall of the channel fitting the standard, whereby the head may be vertically adjusted, plates secured to the upper and lower ends of the said head and provided with alined openings



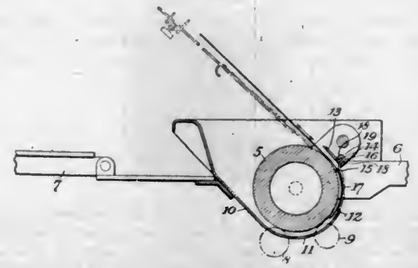
through which the standard extends, the plates constituting means for maintaining the head in slidable engagement with the standard, anti-friction rollers mounted upon the plate at the upper end of the head and engaging the rear side of the standard, anti-friction rollers mounted upon the plate at the lower end of the head and engaging the forward side of the standard, clothes supporting arms extending radially from the head, and means connected with the head and adjustable to elevate and lower the same along the standard.

1,684,154. CONDENSER. JOHN H. SMITH, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 3, 1923. Serial No. 622,574. 11 Claims. (Cl. 257—43.)



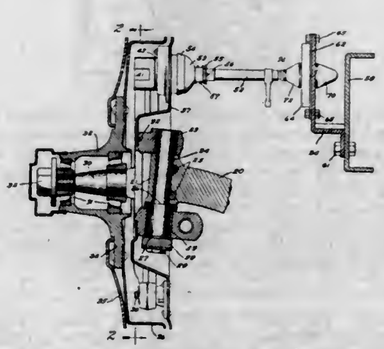
1. In a surface condenser, a condensing chamber having a region of relatively low pressure and temperature and a region of relatively higher pressure and temperature, a hot well having a condensate outlet, an air cooling chamber isolated from the condensing chamber and communicating only with the region of low pressure and temperature in the condenser and water seal means between the air cooling chamber and the condensate outlet.

1,684,155. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 16, 1926. Serial No. 102,420. 5 Claims. (Cl. 197—128.)



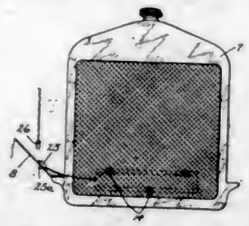
1. In a fan-fold typewriting machine, the combination with a platen, a front paper-table extending above the platen at the delivery side thereof, a rear paper-table having a paper-guide extending around the under portion of the platen and ending at the front below the printing line thereof, and feed-rolls for feeding a fan-fold web inserted at the rear side of the platen in a forward direction, and for feeding the same rearwardly together with a front-inserted independent work-sheet wider than the fan-fold web positioned between the plies of a set of forms of the fan-fold web, while the forms are fed to an accessible position above the front of the platen with a portion of the wide work-sheet extending beyond the side of the fan-fold web, of means for guiding said extending portion of the work-sheet during the rearward feeding of the fan-fold web by said feed-rolls together with said work-sheet consisting of one or more fingers extending from a position adjacent the lower edge of the front paper-table downwardly between the paper-guide and the platen, so that the edge of the extending portion of the work-sheet will not contact with the edge of the paper-guide during the downward movement of the sheet into said paper-guide.

1,684,156. BRAKE. EDWIN G. SPRUNG, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Nov. 12, 1928. Serial No. 147,975. 20 Claims. (Cl. 188—194.)



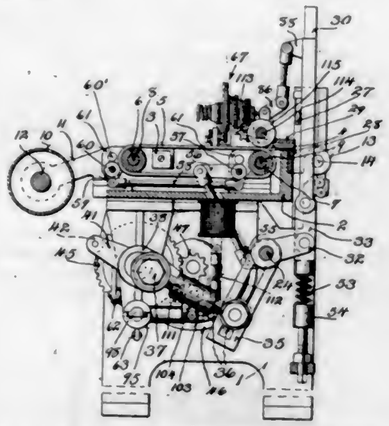
2. In combination with a vehicle brake associated with a steering wheel and a chassis frame, a mounting for supporting an end of a brake operating part, said mounting comprising a casing, and a formed rubber member secured therein, said casing being supported by said frame and having an opening to allow said end of said brake operating part to be carried by said rubber member

1,684,157. MOTOR HEATER. LAURENCE B. STERLING, Minneapolis, Minn., assignor to George H. Sterling, Minneapolis, Minn. Filed May 31, 1924. Serial No. 716,954. 1 Claim. (Cl. 219—38.)



An electric heater for automobile motors comprising a relatively shallow trough-like casing having upturned longitudinal edges and an upturned lateral edge at one end thereof, a pad of dielectric material cemented to the bottom of said casing fitting snugly with in said upturned sides, a heating element embedded within said pad and forming a core thereof, a block of insulating material disposed within said casing at the end opposite said upturned end, terminals carried by said block and a cover of sheet material enclosing said pad and block.

1,684,158. RUBBER-STRIP-CUTTING MACHINE. CLIFTON O. STROM and HERBERT M. NELSON, Jr., Racine, Wis., assignors to Nelson Bros. and Strom, Racine, Wis. Filed Mar. 14, 1927. Serial No. 175,125. 6 Claims. (Cl. 164—48.)

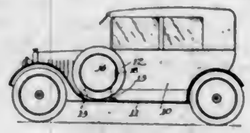


1. In a machine for cutting a sheet of material into lengths, the combination of feeding means, cutting means, and registering means driven directly by the material while it is being fed for controlling the cutting means and the feeding means, said registering means including an automatically reset registering member and an adjustable stop for controlling the starting point to which the registering member is automatically reset, whereby the machine may be set to cut sheets of any predetermined length.

1,684,159. PROCESS OF REFINING OILS. SIJBREN TIJMSTRA, Madison County, Ill., assignor to Roxana Petroleum Corporation, a Corporation of Virginia. Filed Dec. 6, 1926. Serial No. 153,044. 3 Claims. (Cl. 196—33.)

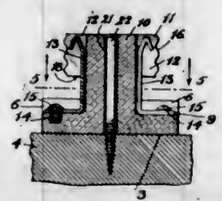
1. The process of treating oils which consists in adding thereto a doctor solution and then adding to said treated oil a water solution of a polysulphide capable of releasing free sulphur for precipitating the lead compounds from the oil.

1,684,160. COMBINATION SPARE-TIRE AND ACCESSORY CARRIER. HERBERT R. TINKER, Lankershim, Calif., assignor of one-half to Stephen M. White, San Francisco, Calif. Filed Apr. 22, 1924. Serial No. 708,177. 7 Claims. (Cl. 224—29.)



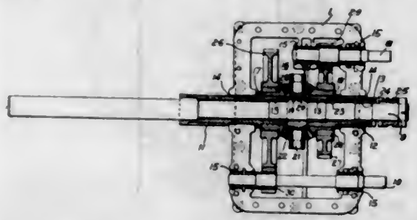
7. In a device of the character described, a closed hollow storage drum having a door, a plurality of independent rim supports projecting from the periphery thereof, some of said supports having portions adjustable radially to and from rim releasing positions, and mechanism housed wholly within said drum and connected through the periphery of said drum with a plurality of said portions for the simultaneous actuation thereof to and from said positions.

1,684,161. ELECTRICAL OUTLET. SYDNEY M. TRAUBITZ, New York, N. Y. Filed Nov. 16, 1927. Serial No. 233,602. 5 Claims. (Cl. 173—338.)



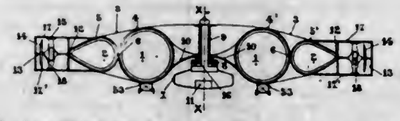
1. An electric outlet comprising a body portion having an opening extending through it for receiving securing means, a flat base on said body portion having a grooved upper face, spring contact fingers secured in and extending out of several of said grooves, an integrally formed slotted projection extending from said base, said projection having an enlarged threaded head, and an internally threaded cap adapted to be received on said head and cover the upper face of the base and the contact fingers thereon.

1,684,162. TRANSMISSION. WILLIAM E. TRUMPLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 26, 1925. Serial No. 11,723. 2 Claims. (Cl. 74—34.)



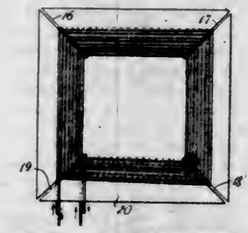
1. A transmission system comprising a casing, a plurality of shafts disposed in parallel alinement therein, a pair of sun gear-wheels loosely mounted on one of said shafts, a planetary gear-wheel secured to said shaft, spur gear-wheels mounted on said sun gear-wheels, spur pinions mounted on the others of said shafts in cooperative engagement with said spur gear-wheels, and a clutch member on said shafts for engaging one of said sun gear-wheels.

1,684,163. FLYING MACHINE. PAUL VALENTIN, Paris, France, assignor to René Dreux, Paris, France. Filed July 22, 1924, Serial No. 727,520, and in France July 26, 1923. 7 Claims. (Cl. 244—15.)



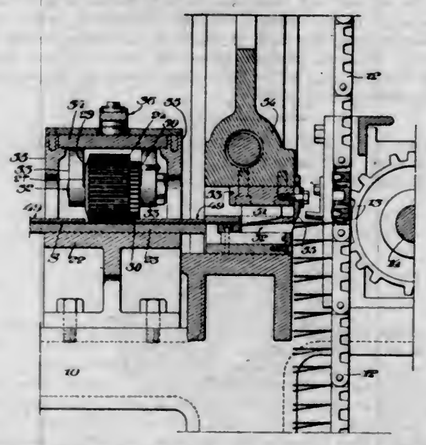
1. A machine for aerial navigation, comprising, a main body and a helicopter screw, the main body being externally in the form of a permanent biconvex lenticular rim, and being adapted to be filled with a gas lighter than air, and wing surfaces arranged upon the periphery of the main body to form the helicopter screw.

1,684,164. RADIORECEPTION. PAUL G. WEILLER, East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 23, 1924. Serial No. 708,341. 5 Claims. (Cl. 175—359.)



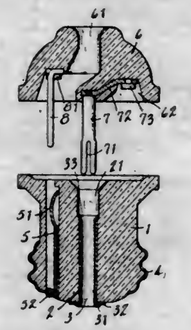
1. A combined inductance for the grid and plate circuits of a vacuum tube receiver comprising a frame having a plurality of radial slots therein, a wire wound on said frame beginning at the center and alternating from one side of the frame to the other at each slot, a second winding begun simultaneously with said first winding and from the same point but on the opposite side of said frame and continuing with said first mentioned winding but always on the opposite side of said frame.

1,684,165. MACHINE FOR MAKING MATCHES FROM SHEET MATERIAL. CHARLES F. WRIGHT, Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 9, 1927. Serial No. 218,383. 8 Claims. (Cl. 144—51.)



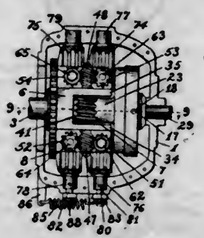
1. The combination with means for feeding sheet match stock, of a revoluble cutter having its axis of rotation longitudinally of the path of the stock and having a series of spaced apart peripheral blades parallel to said axis, and means for effecting cooperative relative movement between the said cutter and the stock, transversely of the latter, whereby the blades operate consecutively to incise the stock in parallel longitudinal splint lines.

1,684,166. PLUG FOR ELECTRIC-LIGHT SOCKETS. HARRY A. AUSTIN, Kalamazoo, Mich. Filed May 20, 1926. Serial No. 110,426. 3 Claims. (Cl. 173—343.)



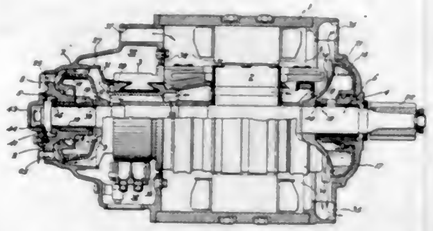
1. In a separable plug, the combination of a screw portion of insulating material having a central metallic contact tube disposed in a central bore therein, a suitable contact means at its outer end and expanded into an enlargement at its inner end adapted to retain the said tube and to guide a contact pin, a lateral electric contact spring with convex portion disposed in a lateral recess and a screw contact covering connected thereto, a detachable portion of said plug composed of the insulation block 6, a central pilot contact pin secured in the same and provided with suitable electric connections, and a contact finger shorter than the pilot contact pin disposed in a suitable recess and positioned to enter and coact with the lateral spring contact of the said screw portion of said plug, after the pilot pin has been inserted as specified.

1,684,167. SPEED-CHANGING MECHANISM. ROBERT B. BEAUCHAMP, East Cleveland, Ohio. Filed Sept. 30, 1925. Serial No. 59,548. 7 Claims. (Cl. 74—34.)



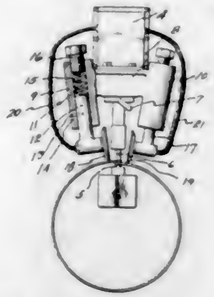
1. In a speed changing mechanism, the combination of a driving member, a gear rotatable with the driving member, means rotatably mounted upon the driving member, idler-gears carried by said means and engaging said gear, means for imparting the motion of the idler-gears to the driven member, a worm-wheel fixed to the first mentioned means, a worm supported by the driving member in engagement with said worm-wheel, a finger-gear consisting of a head carrying a plurality of pins for causing rotation of the worm, a ring-gear adapted to be engaged by said pins of the finger-gear for causing rotation of the finger-gear, and means for manually actuating the ring-gear to cause it to change the speed of rotation of said finger-gear, substantially as described.

1,684,168. ROTARY OILER AND VENTILATION. CLAUDE BETHEL, Wilkinsburg, and FREDERICK W. MCCLOSKEY, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 12, 1926. Serial No. 101,355. 10 Claims. (Cl. 172—36.)



4. In a railway motor having a stator and a rotor, said rotor having a commutator member at one end and a pinion at the other end, the combination including a bearing for rotatably supporting the shaft at each end of the stator, said rotor having longitudinal ventilating passage-ways extending beneath said commutator member, the bearing housing having a ventilating opening outside of the bearing at the commutator end, baffle means surrounding said last-mentioned bearing for isolating the space surrounding said commutator member from the ventilating air entering through said ventilating opening and passing through said passageways beneath said commutator member, an oil reservoir for said bearing at the commutator end, and means for causing a cooling fluid to flow past said oil reservoir into said passageways beneath said commutator member.

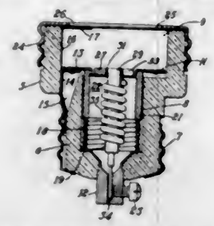
1,684,169. APPARATUS FOR LAP-WELDING. JULIUS R. BRUECKNER and HOMER L. CLARK, Bay City, Mich., assignors to Gibb Welding Machines Company, Bay City, Mich., a Corporation of Michigan. Filed Mar. 26, 1925. Serial No. 18,856. 3 Claims. (Cl. 219—4.)



1. In apparatus for lap welding, an anvil across which the overlapped metal edges may be continuously moved, an electrode on each side of the anvil, yieldable means holding the electrodes in contact with the surface of the metal opposite the anvil on each side of the lap, an automatic hammer positioned between the electrodes and over the anvil and lapped edges, and means for passing the current between the electrodes to heat the joint during the hammering process.

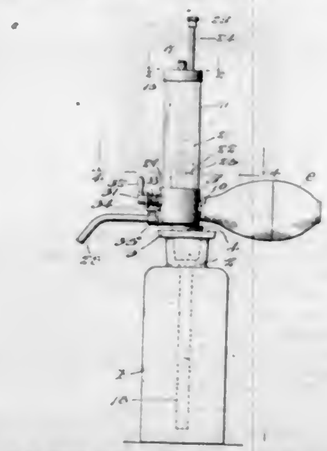
1,684,170. THERMAL PLUG CUT-OUT. EARL K. CLARK, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 2, 1927. Serial No. 180,465. 4 Claims. Cl. 200—123.)

1. A composite thermal-responsive refill for a circuit cut-out comprising a pair of separable members joined by fusible metal, one of which constitutes a terminal member and the other a tubular heat-storing member, and a heating conductor connected, at one end, to the tubular



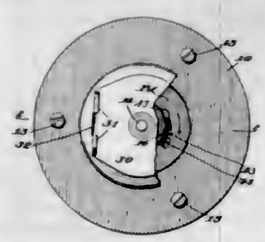
member and wound about the exterior thereof and having its free end extending through the tubular member and constituting a terminal member.

1,684,171. LIQUID-DISPENSING DEVICE. JOHN H. DAVIS, Boston, Mass. Filed Mar. 25, 1927. Serial No. 178,241. 7 Claims. (Cl. 221—95.)



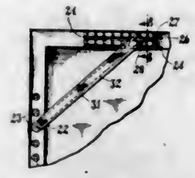
5. In a liquid dispensing device of the pneumatic type the combination with a bottle, a stopper for supporting the device in said bottle and a head supported on the stopper, of a vessel having a discharge chamber and supported in the head, a variable measuring device for predetermining the bulk of liquid, a regulating device to stop or hold the variable measuring device at any position desired, and valve controlled means for dispensing the predetermined bulk.

1,684,172. INTERMITTENT BALL CLUTCH. JAMES M. DAYTON, Torrington, Conn. Filed June 3, 1927. Serial No. 196,320. 6 Claims. (Cl. 192—12.)



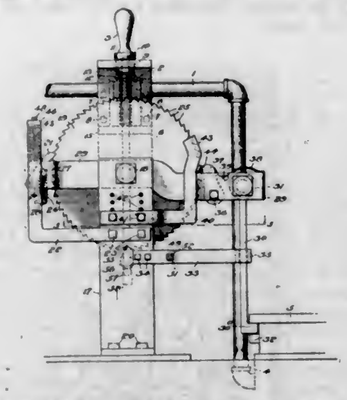
1. In an intermittent clutch, a movable member including a cylindrical core, a bearing to support said core for rotation, two annular clutch plates having inclined notches at their inner peripheries, said peripheries fitting said core and being alined thereby, all of said notches being inclined in the same direction, a clutch ball and spring in each of said notches, means to hold one of said clutch plates, and a second movable member operatively connected to the other of said clutch plate.

1,684,173. REMOVABLE CARD-TABLE COVER. MARCUS DIAMOND, SAMUEL DIAMOND, and JACOB DIAMOND, New York, N. Y. Filed Aug. 1, 1927. Serial No. 209,846. 2 Claims. (Cl. 45—68.3.)



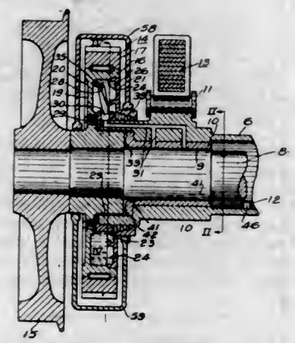
1. A removable cover for card tables comprising a cover member, binding members attached to the edge portions of said cover member, a channel member mounted on one of the binding members of said cover member, spaced rods in said channel member, a hook element disposed in the groove of said channel member and having an extension, a strap comprising a fabric covering and a sheet lead lining rotatively mounted at one end on said extension, snap fastener elements attached to the other end of said strap, and snap fastener elements attached to the binding member of the adjacent edge of said cover member adapted to accommodate the snap fastener element of said strap, said hook element being adapted to be selectively engaged on the rods of said channel member for suitably positioning one end of said strap and said first mentioned snap fastener being adapted to be selectively engaged on any desired snap fastener of said adjacent binding member for suitably positioning the opposite end of said strap.

1,684,174. MOLD-JARRING DEVICE. JOSEPH R. DUNBECK, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed Nov. 9, 1925. Serial No. 68,018. 10 Claims. (Cl. 192—139.)



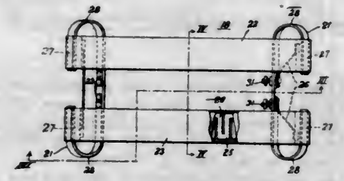
3. The combination with a fluid pressure actuated jolting device, of a valve controlling the supply of fluid pressure thereto, resilient means for normally retaining said valve closed, manual means for opening said valve, means for retaining said valve open, a ratchet wheel pivotally mounted adjacent said valve, means allowing turning of said wheel in only one direction, a lever pivoted adjacent said wheel, means mounted on said lever and adapted to engage said ratchet wheel and turn it in the allowed direction when the lever is moved in said direction, and slide over said ratchet wheel when the lever is moved in the opposite direction, a portion on said ratchet wheel engageable with the retaining means to release said means after a predetermined movement of the ratchet wheel and a connection between the jolting device and lever for effecting movement of the ratchet wheel by oscillation of the lever.

1,684,175. ROTARY OILER. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 21, 1927. Serial No. 169,711. 6 Claims. (Cl. 105—113.)



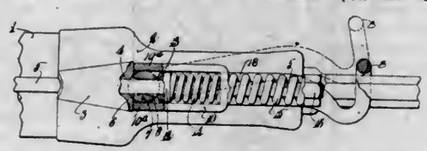
1. An axle-mounted-vehicle-motor structure comprising a driving wheel, an axle therefor, an axle bearing, a driving motor mounted on said axle and a rotary oiler for said axle bearing.

1,684,176. WAFFLE-IRON HEATING ELEMENT. FRANK F. FORSHEE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 10, 1925. Serial No. 61,696. 7 Claims. (Cl. 219—19.)



4. In a cooking device, the combination with a container and a baking member associated therewith, of a heating unit located in the container and comprising a plurality of thermally-conductive sheathed members having resilient laterally-extending end portions, and resilient supporting members secured thereto and effective to maintain the heating means in intimate contact with, and in proper operative relation to, said baking member.

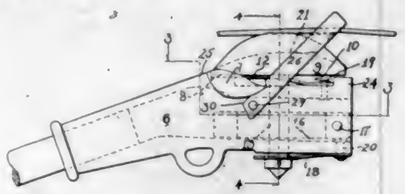
1,684,177. TOOL RETAINER. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 15, 1922. Serial No. 607,036. 13 Claims. (Cl. 121—32.)



1. In a tool retainer, a pair of tension members adapted to hold the parts of a drill assembled, a retainer yoke pivoted on said members, springs surrounding said members and adapted when placed in compression to hold

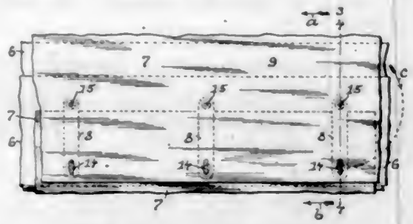
said retainer member in position, a yoke extending on opposite sides of said springs and also carried on said members, heavier springs overlying said members, and means for placing said springs under compression.

1,684,178. TROLLEY. CLARENCE A. GOUTY, Bushnell, Ill. Filed Oct. 12, 1925. Serial No. 62,085. 5 Claims. (Cl. 191—59.1.)



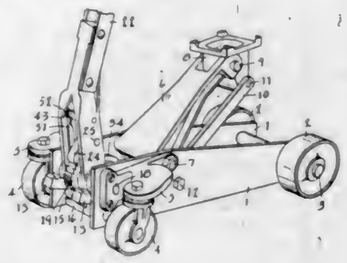
1. A trolley comprising a harp, having in its upper part a depression adapted to receive the forward end of an oscillative shoe and a depression adapted to receive a contact plate; said harp having also upwardly and laterally extending members effective to limit lateral movement of the forward part of the shoe; and a shoe above the upper surface of the harp and having its forward part located between the upwardly extending lateral members of the harp.

1,684,179. ROLL ROOFING. ALBERT ABBE GRISWOLD, Providence, R. I. Filed Dec. 3, 1926. Serial No. 152,492. 1 Claim. (Cl. 108—33.)



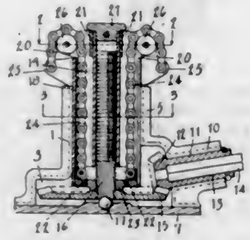
In roll roofing construction, a flat elongated metal roll roofing fastener having a rivet slot in one end and a nail hole in the other end, a rivet through the rivet slot in the fastener and extending into the roll roofing and a nail through the nail hole in the fastener into a roof, whereby the roll roofing is secured to the roof and expansion and contraction of the roll roofing or the roof boards is compensated for, by the slot in the fastener.

1,684,180. LIFTING JACK. ARTHUR C. HOPKINS, Niles, Mich., assignor to National Standard Company, Niles, Mich. Filed Apr. 9, 1927. Serial No. 182,313. 12 Claims. (Cl. 254—2.)



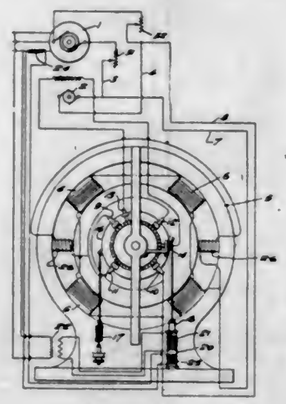
12. In a lifting jack, the combination of a frame, a lifting member, a ratchet wheel operatively connected to said lifting member, an actuating lever, a lifting pawl pivotally mounted on said actuating lever to coact with said ratchet wheel, a holding pawl pivotally mounted on said frame to coact with said ratchet wheel, a reversing member mounted on said actuating lever to coact with said holding pawl, a reversing rod slidably mounted on said actuating lever, a spring acting to hold said reversing member normally in inoperative position, and operating connections for said reversing rod and lifting pawl and said reversing rod and reversing member whereby the pawls are alternately disengaged by successive actuations of said reversing rod.

1,684,181. LIFTING JACK. ARTHUR C. HOPKINS, Niles, Mich., assignor to National Standard Company, Niles, Mich. Filed May 18, 1927. Serial No. 192,269. 10 Claims. (Cl. 254—148.)



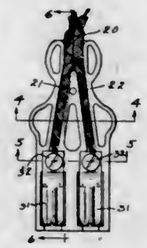
6. In a lifting jack, the combination with a standard, of a lifting member telescoping therein and comprising telescopingly associated sections, a screw with which the inner of said sections is telescopingly associated, the outer section having threaded engagement with said screw, and a cable connected to the inner lifting member and to said standard, the outer lifting member being provided with a thrust member over which said cable is passed.

1,684,182. AUTOMATIC VOLTAGE CONTROL. GROVER C. HUBBLE, Bonners Ferry, Idaho. Filed Mar. 17, 1926, Serial No. 95,443. Renewed Feb. 1, 1928. 15 Claims. (Cl. 171—221.)



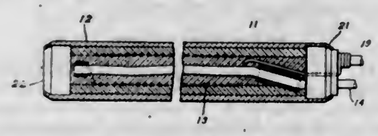
1. In combination, an alternator, a direct current field exciter generator for said alternator, a control motor electrically driven from the exciter, said control motor being capable of supplying the field energizing current for said exciter, and means whereby the output of the control motor generator will be regulated by the output voltage of the alternator.

1,684,183. ELECTRIC PLUG. WILLIAM ILE, Little Falls, N. J., assignor to Ilcite Electric Manufacturing Corporation, Tuckahoe, N. Y., a Corporation of New York. Filed Mar. 19, 1925. Serial No. 16,607. 2 Claims. (Cl. 173—332.)



1. A device of the character described comprising a pair of sections cooperating to form a housing, each section being formed with a hollow protuberance at one end of substantially hemispherical form connected by a neck with the body portion, there being projecting shoulders at opposite sides of the body and some distance from the opposite end, whereby when said sections are placed facing each other a spherical knob is obtained, separated by said neck and shoulders from the terminal portion of the device, there being passageways in the body leading from said terminal portions to a single passageway extending axially through the knob.

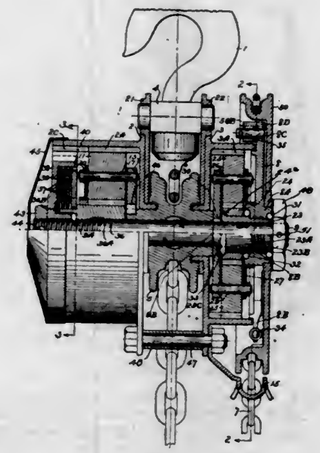
1,684,184. METHOD OF MAKING HEATER UNITS. WILLIAM R. KING, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 1, 1927. Serial No. 165,126. 2 Claims. (Cl. 201—64.)



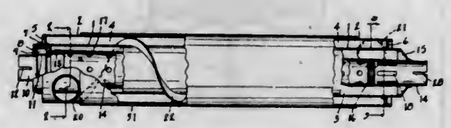
1. The method of making a tubular heating unit which comprises winding a resistor wire into helical form, locating within the helix a terminal rod one end of which is electrically connected to the corresponding end of the resistor wire, locating on the terminal rod and within the helix an open helix of a strip of metallic magnesium, locating an open helix of a strip of metallic magnesium around said helix, placing the helix, terminal rod and two helices of magnesium loosely within a tubular metal casing, and then subjecting the parts thus assembled to the action of high pressure steam in a container to expansively oxidize the metallic magnesium into a crystalline mass of electric insulating material.

1,684,185. HOISTING BLOCK. JOHN W. KITTREDGE, Akron, Ohio. Filed Mar. 11, 1926. Serial No. 93,952. 26 Claims. (Cl. 254—171.)

1. In a hoisting block, the combination of a driving wheel, a drive shaft, a drive connection from the driving wheel to the drive shaft, a driven wheel, a brake, a planetary gear train comprising a central gear, a planet gear member, a carrier, and an annular gear, and a screw connection in the said brake between the drive shaft and the central gear whereby backward rotation of the central gear sets the brake and backward rotation of the drive shaft releases the brake.

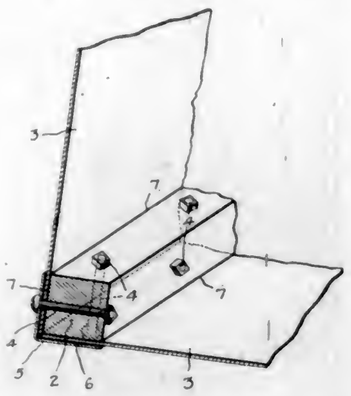


1,684,186. COMBINED MUFFLER AND HEATER. WALTER A. KYSOR, Allegan, Mich. Filed Mar. 7, 1927. Serial No. 173,491. 2 Claims. (Cl. 257—16.)



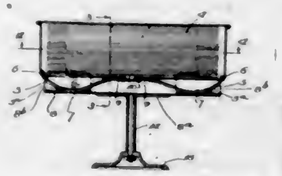
1. In a device of the class described, the combination of concentrically disposed inner and outer tubular walls providing a central elongated gas chamber and a surrounding air chamber, said air chamber having inlet and outlet openings at the respective ends thereof, front and rear supporting collars for said outer wall closing the ends of said air chamber, one of said supporting collars being disconnected from one of said walls permitting relative movement of said walls due to unequal expansion, a coupling member removably secured within the front end of the inner wall and provided with an inwardly projecting flange, a rearwardly tapered discharge pipe disposed centrally within said gas chamber with its front end slidably engaging the projecting flange from said coupling member, thus permitting relative movement of the inner wall and discharge pipe due to unequal expansion, said discharge pipe having a partition spaced from its rear end, with a plurality of discharge orifices around it in front of said partition and a plurality of exhaust openings at the rear of said partition, and a conical end head for said gas chamber tightly fixed to the rear of said inner wall and to said discharge pipe at the rear of its discharge openings, said discharge pipe projecting beyond said rear head to provide a coupling member.

1,684,187. CONSTRUCTION FOR AIRPLANE FLOATS. GROVER LOENING, New York, N. Y. Filed Oct. 21, 1927. Serial No. 227,733. 1 Claim. (Cl. 244—31.)



Construction for airplane floats comprising the combination of wood frame members, an outer metal skin, bolts for securing said metal skin to said frame members, and said skin being entirely separated from said frame members by a layer of protecting material.

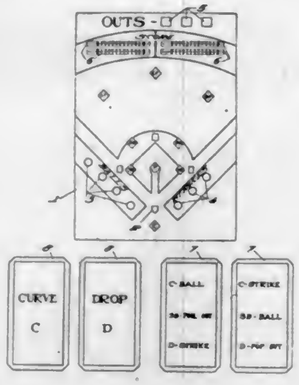
1,684,188. DISPENSING CONTAINERS. SAMUEL A. MERRIN, Chicago, Ill., assignor, by mesne assignments, to Marathon Paper Mills Company, Rothschild, Wis., a Corporation of Wisconsin. Filed Aug. 23, 1926. Serial No. 130,856. 9 Claims. (Cl. 312—61.)



1. A dispenser comprising a box like structure having a top wall formed with a delivery opening and a bottom consisting of two members hinged respectively to opposite vertical walls of the box and extending toward each other, the free ends of said members being adapted to swing upwardly toward the delivery opening, and said members having downwardly extending parts between their hinges and said free ends on which the weight of the dispenser is carried.

1,684,189. BASEBALL GAME. ALBERT MEYER, Chicago, Ill. Filed May 8, 1926. Serial No. 107,689. Renewed Feb. 10, 1928. 1 Claim. (Cl. 273—93.)

In a base ball game, a game board representing a base ball playing field comprising the diamond and score spaces, certain of said score spaces being located adjacent the home plate and receiving indicia denoting the individual plays as made, the remaining score spaces being located in the outfield and receiving indicia denoting the cumulative results of the indicia of the home plate score spaces, markers adapted for movement over the diamond, playing cards comprising separate packs, the cards of said packs having inscriptions on their faces, the cards of two of said packs being adapted to be turned face up, one card at a time, alternately; the inscription upon the exposed faces of the cards of one pack being readable through reference to the exposed faces of the other pack, and a third pack of cards adapted for optional play by one of the contending parties to the game, the exposed card inscriptions determining the movements of the markers over the board and the score indicia, substantially as set forth.

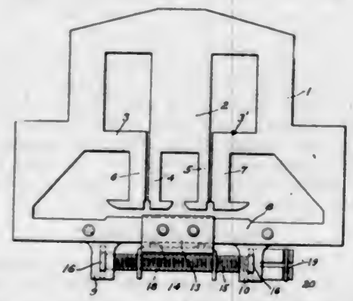


1,684,190. DEVICE FOR HOLDING TOILET-PAPER ROLLS. CHARLES MOSER, Los Angeles, Calif. Filed Oct. 2, 1926. Serial No. 139,073. 3 Claims. (Cl. 242—55.2.)



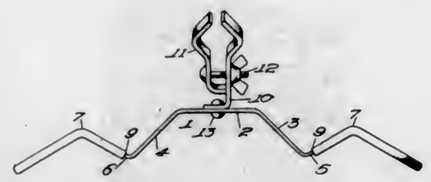
2. A device of the class described comprising a metal bracket adapted to be secured to a support, a tubular spindle secured to said bracket for supporting a roll of paper thereon, and a spring controlled flange pivotally secured to the free end of said spindle.

1,684,191. ELECTRICAL MEASURING INSTRUMENT. WALTER G. MYLIUS, Wilkinsburg, Pa., and CHARLES M. HOEFTMAN, Newark, N. J., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 17, 1927. Serial No. 176,078. 8 Claims. (Cl. 171—264.)



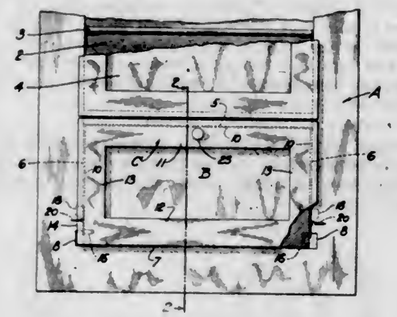
3. A light-load adjusting device for electric meters comprising a core member having extensions therefrom, a movable carrier, a conducting plate of substantially U-shape secured to said movable carrier and adapted to frictionally engage the core member, and means for adjustably mounting the movable carrier on the said extensions.

1,684,192. PUTTER ATTACHMENT. STEFFEN P. NEMETH, Chicago, Ill., assignor, by mesne assignments, of one-half to Bert Coates Nemeth, Chicago, Ill. Filed Aug. 25, 1926, Serial No. 131,443. Renewed Apr. 25, 1928. 6 Claims. (Cl. 273—35.)



1. In a putter attachment, an angular bar, a link adjustably connected to said bar, and a bracket pivotally connected to said link.

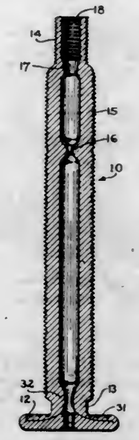
1,684,193. COMBINATION SHELF AND DROP DOOR. WILLIAM A. NOACK, Oakland, Calif., assignor to Concealo Fixture Company, Inc., a Corporation of Nevada. Filed May 21, 1924. Serial No. 714,861. 3 Claims. (Cl. 312—189.)



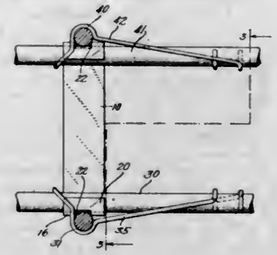
1. The combination with a cabinet having a door opening formed therein, said opening being enlarged at each side at the bottom of the opening, a door forming a closure for the opening and fitting all of the opening except the enlarged lower side portions, a projecting molding surrounding the door and overlapping the sides of the door opening and the upper end thereof, the outer edge of said molding fitting the bottom of the door opening and the enlarged sides thereof, a pair of pivots adjacent the enlarged lower side portions of the door opening, said pivots permitting the lower portion of the door to swing into the enlarged lower portion of the door opening, and means for stopping swinging movement of the door and for supporting the door when it reaches a horizontal position.

1,684,194. METHOD OF MAKING TIRE-VALVE STEMS AND THE LIKE. ERASTUS G. OAKLEY, Southport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn. Filed Mar. 12, 1923. Serial No. 624,532. 15 Claims. (Cl. 29—157.)

1. The process of making a valve stem or like article, which comprises folding over a wall of a blank in the form of a piece of tubular stock of uniform diameter throughout its length adjacent one end thereof to form a flat disk-like head and simultaneously flowing the metal of the blank inwardly adjacent the head to form a thickened wall, while limiting the movement of the metal into the bore of the blank to preserve the opening therethrough.



1,684,195. REENFORCEMENT FOR CONCRETE STRUCTURES. RUSSELL C. OLMSTED, Hudson Heights, N. J. Filed Nov. 23, 1926. Serial No. 150,195. 8 Claims. (Cl. 94—8.)



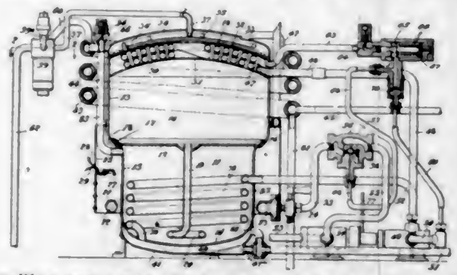
7. A concrete reenforcing structure comprising a spacer element, a reenforcing element receiving loop provided at one end thereof, an outwardly disposed notch formed in said loop, an outer reenforcing element mounted in said notch, an inner reenforcing element positioned in said loop, and means for securing the outer reenforcing element in said notch and securing the inner reenforcing element in said loop.

1,684,196. REFRIGERATING APPARATUS. STUART OTTO, Scranton, Pa., assignor to Iceless Automatic Refrigerator Company, a Corporation of Delaware. Filed Dec. 5, 1923. Serial No. 678,572. 15 Claims. (Cl. 62—118.)

4. A boiler-absorber for refrigerating apparatus including a vessel having an upper distillation chamber, a lower absorption chamber, communication means from the lower part of one chamber to the lower part of the other, a water jacket for cooling the top wall of the upper chamber, and a separate water jacket for cooling the bottom wall of the lower chamber.

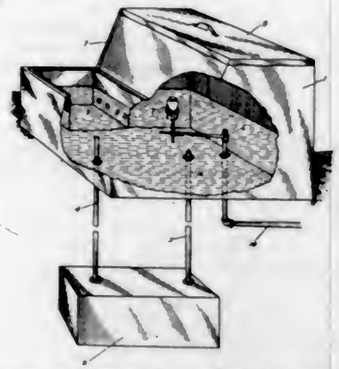
13. A refrigerating apparatus, including a boiler-absorber, a heater, a controlling means for the supply of heating medium to said heater, an emergency outlet conduit leading from said boiler-absorber, a rupture disk

in said conduit for permitting escape of refrigerant gas through said conduit when the pressure exceeds a predetermined pressure, and means operable to close said con-



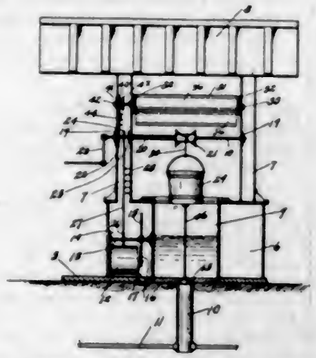
trolling means when the gas pressure in said conduit in advance of said rupture disk reaches a second, but lower predetermined limit.

1,684,197. SYSTEM FOR PREVENTING LIQUIDS FROM FREEZING. EVERETT C. PETSCH, Pleasant Dale, Nebr. Filed May 1, 1923. Serial No. 635,996. 5 Claims. (Cl. 119—73.)



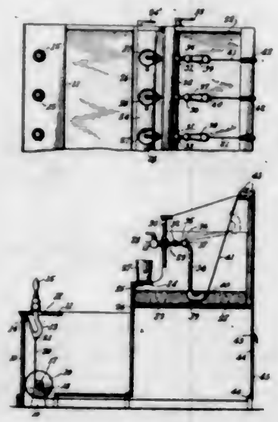
1. A stock tank which is partially submerged beneath the surface of the earth, means for supplying said tank with water and for maintaining the water within the tank at a constant level, a water reservoir positioned in the subsoil beneath the front line, and a thermo-siphon connection between said reservoir and said tank.

1,684,198. DISPLAY DEVICE. WALTER PETTIT, Clare, Mich. Filed July 23, 1926. Serial No. 124,456. 7 Claims. (Cl. 40—126.)



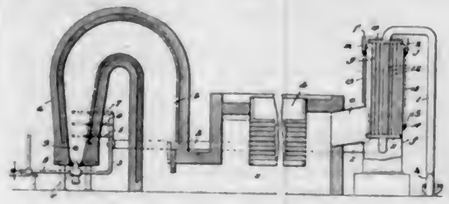
1. In a machine of the character described, the combination with a housing having a source of water supply, of a pair of hollow supports, a transversely disposed shaft and sleeve, a drum mounted thereon and a bucket hung therefrom, a crank, a jointed manikin connected thereto, means for driving said shaft and means for intermittently driving said sleeve.

1,684,199. AMUSEMENT RACING DEVICE. HARRY PITT, Elizabeth, N. J. Filed Aug. 5, 1927. Serial No. 210,988. 8 Claims. (Cl. 273—86.)



1. An amusement racing device comprising a tank receptive of a liquid, a plurality of scoops above said tank, a tap in said tank for each of said scoops, tubular connections having ball-and-socket joints between said scoops and said taps, and individual means to raise said scoops above said taps permitting the liquid therein to flow out of said taps.

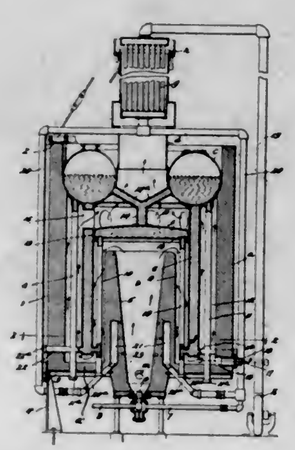
1,684,200. APPARATUS FOR BURNING FINE FUEL IN SUSPENSION. JAMES POLLOCK, New York, N. Y. Filed Sept. 13, 1926. Serial No. 135,222. 3 Claims. (Cl. 110—28.)



1. In an apparatus for burning fine fuel in suspension, a furnace chamber, a relatively low stack and passageways connecting the top of the chamber with the lower part of the stack, an air heater in the stack having a hollow head extending over the stack and spaced from the same, leaving an annular gap for the escape of gases, an annular damper slidable vertically upon the stack for varying the width of said gap, and means for blowing air through the heater into the furnace chamber.

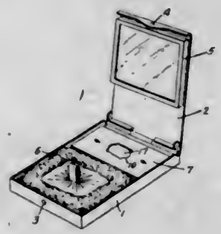
1,684,201. BOILER FOR UTILIZING FINE COAL. JAMES POLLOCK, New York, N. Y. Filed Feb. 26, 1927. Serial No. 171,241. 4 Claims. (Cl. 122—332.)

4. In a steam boiler, a furnace chamber open at the top and having an upwardly flaring inner surface, an outer wall spaced from the chamber, a base connecting said wall with said chamber, an annular steam drum above the chamber, an annular container extending from the drum downwardly around the chamber and spaced therefrom and also from said base, a header secured to the inner wall of the container and extending over the



chamber, said header and container adapted to direct the gases from said chamber downwardly, thence under the container, and thence upwardly between the container and the outer wall, and sight openings arranged in said outer wall adjacent the bottom of the container.

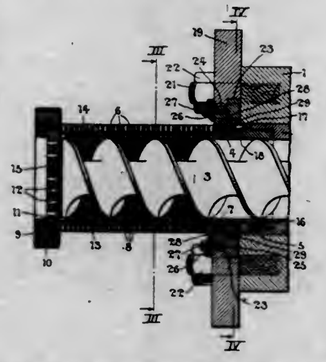
1,684,202. VANITY CASE. HYACINTHE ALPHONSE POVEL, Paris, France. Filed Jan. 6, 1927, Serial No. 159,254, and in France Dec. 1, 1926. 6 Claims. (Cl. 132—83.)



6. In a vanity case, a powder box therein and a powder puff in juxtaposition to said box, said box having a lateral discharge opening facing said powder puff, a resilient member associated with said powder box for discharging powder through said opening by pressure applied against said resilient member and a cover for said case for closing the same and for applying pressure against said powder puff to cause it to expand whereby it will close said discharge opening.

1,684,203. STRAINER HEAD FOR TUBING MACHINES. VERNON ROYLE, Paterson, N. J. Filed Dec. 26, 1919. Serial No. 347,569. 34 Claims. (Cl. 146—174.)

32. A device of the character described comprising, a tubular element composed of inner and outer perforated members, a perforated end member for said element, means for removably securing the end member to the outer member, said outer member being provided at its rear end with lateral projections, which said projections are adapted to be moved into and out of engagement with projections on the tubing machine for bringing the outer member and end member into and out of operative position with respect to the machine.

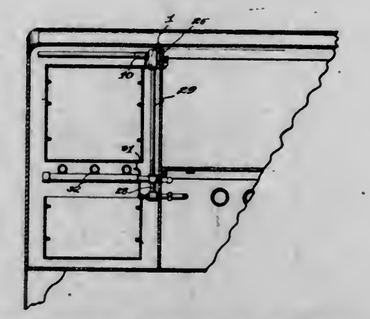


1,684,204. METHOD OF CONSTRUCTING BALLAST RESISTANCES. SAMUEL RUTTENBERG, Brooklyn, N. Y., assignor to Samuel Ruttenberg and Meyer Nathan Leibowitz, New York, N. Y. Filed May 3, 1926. Serial No. 106,291. 5 Claims. (Cl. 153—64.)



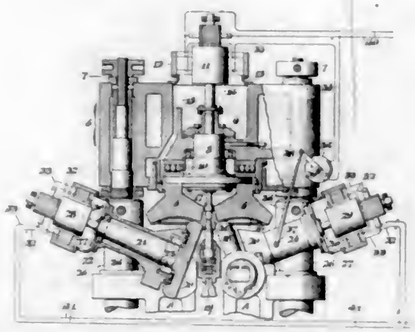
1. The method of winding resistance wire on a form of substantially flat shape having serrated edges with the coils of said wire supported in said serrations, but otherwise spaced from the form, which consists in supporting said form within a core with its serrated edges projecting from the sides thereof, and winding said wire on said core between the serrations on the side edges of the form.

1,684,205. HEAT-CONTROL DEVICE FOR OVENS. ALVIN G. SHERMAN, GEORGE SMITH, and GEORGE H. RAMIO, Detroit, and CYRIEL A. ROOSE, Grosse Pointe Farms, Mich., assignors to the Detroit Vapor Stove Co., Detroit, Mich., a Corporation of Michigan. Filed May 19, 1926. Serial No. 110,085. 12 Claims. (Cl. 236—15.)



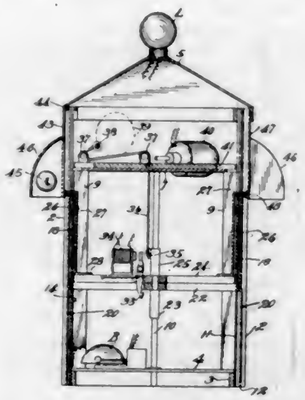
1. A heat control device for ovens, or similar structures, comprising in combination a heat control unit secured to the interior of the oven, the oven having an opening adjacent said heat control unit and a shield on the exterior of the oven readily removable to permit access to said heat control unit.

1,684,206. MEANS FOR ROLLING THIN SECTIONS. JOHN W. SMITH, Philadelphia, Pa. Filed Mar. 14, 1927. Serial No. 175,335. 8 Claims. (Cl. 80—16.)



1. In a rolling mill embodying a rotary forming die and co-operative rolling means movable radially of the forming die, the combination of means with automatic control to positively drive the forming die and the rolling means at synchronized surface speed in different cooperative positions assumed incidental to the rolling operation.

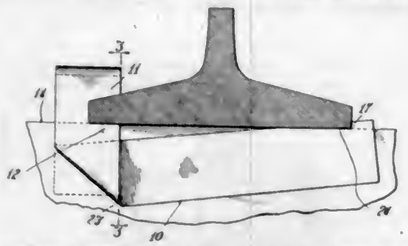
1,684,207. TRAFFIC SIGNAL. CLARENCE D. SMYTH, Rox, Nev., and GUY M. ROBEY, Los Angeles, Calif. Filed July 15, 1924. Serial No. 726,139. 12 Claims. (Cl. 177—337.)



1. A traffic signal including a housing having fixed walls with outer traffic sign faces, a set of slidable traffic sign plates operative to cover and uncover the relative fixed sign faces; means to conceal the plates in one position in the housing, said fixed walls having also "Fire" indicia, movable curtains lying over the said indicia, and means for moving the plates alone and for moving them and the curtains together to cover the traffic signals and disclose the "Fire" indicia.

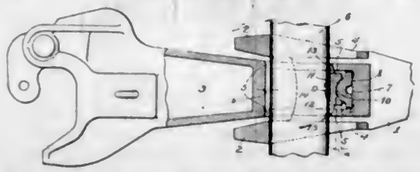
1,684,208. RAIL ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed June 9, 1927. Serial No. 197,602. 17 Claims. (Cl. 238—330.)

1. A rail anchor made from a flat metal strip of substantially uniform width formed along one margin with a rail base receiving recess and bent upon itself to provide a jaw portion adapted to be driven into gripping engagement with the rail base flange at one side of the rail and



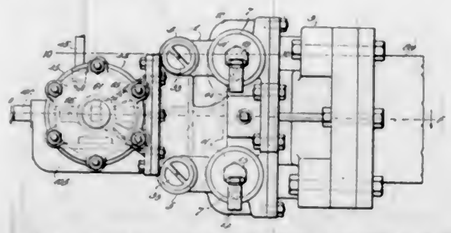
formed with means for engagement with the base flange at the other side of the rail to lock the jaw portion of the anchor in its gripping position on the rail.

1,684,209. COUPLER SHANK AND YOKE CONNECTION. JOHN CLIFFORD WHITRIDGE and GEORGE T. JOHNSON, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Jan. 28, 1927. Serial No. 164,303. 5 Claims. (Cl. 213—69.)



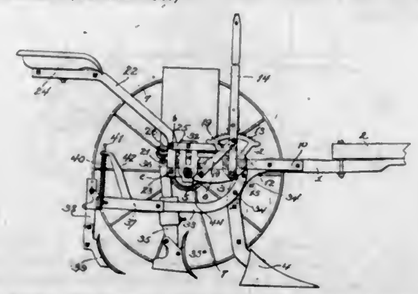
1. The combination of a slotted coupler shank, a slotted yoke, and a key inserted therethrough, said shank provided with a vertically extending horizontally convex bearing surface at the rear of the slots therein, and an equalizer between the key and said surface having a concave rear face seating on the bearing surface.

1,684,210. MOTOR. NORMAN EDLOW WOODS, Paterson, N. J.; Lelia P. Woods administratrix of said Norman Edlow Woods, deceased. Filed Nov. 5, 1923. Serial No. 672,905. 13 Claims. (Cl. 121—41.)



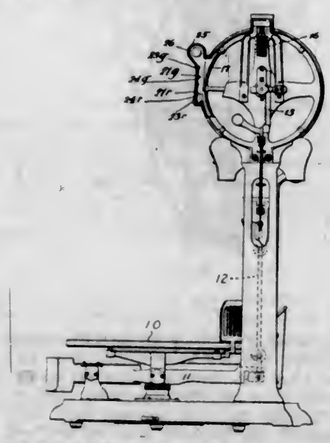
1. In a motor, a housing, a driven shaft disposed axially of the housing, cylinders and pistons disposed in working pairs on opposite sides of said shaft, the cylinders of each pair communicating with a crank chamber therebetween, transmission shafts on opposite sides of and in gear with the driven shaft and in alinement with the crank chambers and extending thereinto, connections in the crank chambers between the pairs of pistons and the transmission shafts for transmitting the rectilinear motion of the former into curvilinear motion of the latter, duplex valve devices, one for each pair of cylinders, controlling the supply of fluid pressure to and its exhaust from the respective pairs of cylinders, a throttle valve device controlling the supply of fluid pressure to and exhaust from said duplex valve devices, a slidable, non-rotatable rod coupled to the throttle valve, and a sleeve slidable with the rod and rotatable with the driven shaft, said sleeve being operatively coupled to the rod in the rotation of the shaft for controlling said throttle valve to cut off the supply of fluid pressure to the motor upon a predetermined number of revolutions of said shaft.

1,684,211. PLANTER. HERMAN E. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Oct. 2, 1925. Serial No. 60,058. 10 Claims. (Cl. 111—60.)



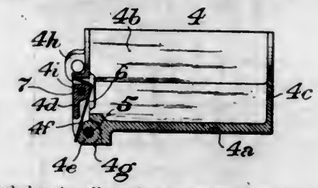
1. In a planter, the combination with a wheeled axle, a beam, a connection between the wheeled axle and beam, a furrow opener carried by said beam, bars secured to and extending rearwardly therefrom, a seed sprout or boot and coverers carried by said bars, means for raising and lowering said beam and the devices carried thereby, a seed can, a horizontal gear for the feed mechanism of said seed can, a vertical gear mounted on the axle and slidable thereon, said vertical gear having a beveled portion, an adjustable plate carried by one of said bars for cooperation with the beveled portion of the vertical gear to move the latter out of mesh with the horizontal gear when the beam and the devices carried thereby are raised, and means for moving the vertical gear into mesh with the horizontal gear when the beam and said bars together with the devices carried thereby are lowered.

1,684,212. INDICATING CHART AND MEANS FOR VIEWING THE SAME. CHRISTIAN BERGER, Brooklyn, N. Y., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Apr. 28, 1921. Serial No. 465,177. 11 Claims. (Cl. 88—1.)



1. In a weighing scale, a chart and means for displacing the same in accordance with an applied load, a plurality of differently colored sets of numbers thereon, said sets being each arranged in concurrently ascending arithmetical progressions with their zero points offset by a certain amount, a pair of color filters on the same side of said chart each filter rendering visible one set of numbers and rendering the other set invisible, and reading lines associated with each said filter spaced apart by the distance of the zero offsets whereby correlated numbers based upon the same weight may be concurrently read by the operator.

1,684,213. LOCOMOTIVE-DRIVING-BOX CELLAR. JAMES G. BLUNT, Schenectady, N. Y. Filed May 14, 1926. Serial No. 109,059. 1 Claim. (Cl. 308—83.)



In a lubricant cellar, for axle boxes, the combination of a receptacle, having one end open, and a hinge lug at said end, the lug having a plurality of cam faces; a lid for closing the open end of the receptacle, comprising a hinge lug, and two hinge recesses, one disposed above the other; a pintle connecting the hinge lugs; and a plate spring, having an intermediate portion bearing on the inner side of the lid, a bottom portion projecting through the lower recess in the lid, and bearing on one of the cam faces of the hinge lug, and a top portion projecting into the upper recess in the lid, and locking the spring in position.

1,684,214. RECEPTACLE CLOSURE. FREDERICK C. CLEMENT, Philadelphia, Pa. Filed Feb. 5, 1926. Serial No. 86,119. 3 Claims. (Cl. 215—52.)



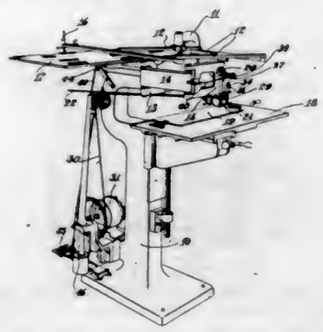
1. A receptacle closure comprising a longitudinally-divided tubular body member of springy material, a grasp member, and a resilient member medially connected coaxially of the grasp member having opposed complementary-shaped free arms that are rigidly secured to the body member at its top, whereby freedom for gradual increasing resistivity to contraction is afforded the body member when engaging the wall of the receptacle opening.

1,684,215. NUT. HARRY W. CONNELL, Baldwinsville, N. Y. Filed Mar. 18, 1925. Serial No. 16,312. 2 Claims. (Cl. 85—32.)



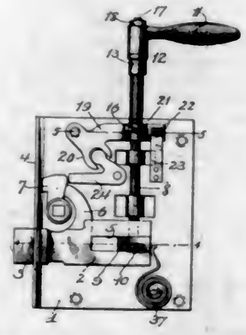
1. A nut having a wrench engaging portion and an extension formed integral therewith and at the outer end thereof and upon which a wrench may freely rotate and a pin passing through said extension to prevent the removal of the wrench over said extension.

1,684,216. ENGRAVING MACHINE. WILLIAM J. DONOVAN, Sag Harbor, N. Y., assignor to Engravers & Printers Machinery Company, Inc., Sag Harbor, N. Y., a Corporation of New York. Filed Oct. 27, 1924. Serial No. 746,031. 12 Claims. (Cl. 90—13.1.)



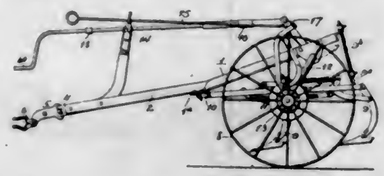
1. An engraving machine embodying therein a pantographic lever system, a work head actuated thereby, a tracing stylus carried by said lever system, a pattern support in operative relation to said stylus, a work table in operative relation to said work head, a tool carried by said work head, means having a normal tendency to move said work head from, and maintain it out of, the operative relation to work upon said work table, means whereby said work head may be moved toward said work table, a stop member projecting towards said tool to a position closely adjacent and above the working point thereof, whereby downward movement of said work head will be arrested by engagement of said stop member with a plate or sheet upon said work table, and thus ensure uniformity in the depth of cut made by said tool irrespective of surface irregularities in a plate or sheet upon said work table and means operative upon said stop member and acted upon both by the means for moving the work head toward and the means for moving the work head from said work table whereby said work head and said stop member will be simultaneously actuated through the same mechanism and to the same extent.

1,684,217. LATCH. JOHN B. FREYSINGER, New Britain, Conn., assignor to North & Judd Manufacturing Company, New Britain, Conn. Filed Sept. 21, 1925. Serial No. 57,716. 6 Claims. (Cl. 292—169.)



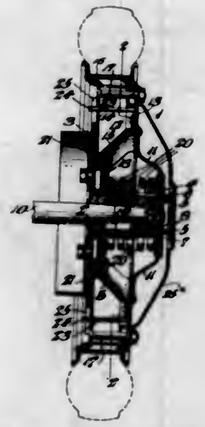
1. In a door latch, the combination of a latch-bolt, a vertical rotatable spindle for moving the bolt, a roll-back by which the bolt may be moved, a locking element having one end arranged to abut the roll-back whereby to prevent movement thereof, an operating angle lever provided with a fork at one end having sliding engagement with the locking element, and means carried by the spindle and engaged with the opposite end of the operating lever to set the same.

1,684,218. CULTIVATOR. ARTHUR D. GALLAGHER, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Original application filed July 23, 1924, Serial No. 727,743. Divided and this application filed Oct. 7, 1925. Serial No. 61,111. 3 Claims. (Cl. 97—243.)



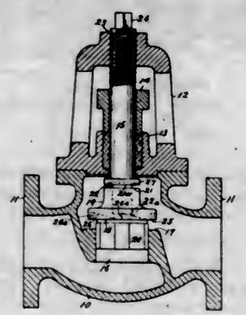
1. In a cultivator, the combination with a frame, a crank-axle supporting the rear portions of the frame, and carrying wheels, of an arm rigid with the intermediate cranked portion of the crank-axle and extending angularly therefrom, a standard rigid with the frame in advance of the axle, a sleeve pivotally supported by said standard, an internally threaded screw member connected to said arm, a screw shaft passing freely through said pivoted sleeve and cooperating with said threaded screw member to effect depth adjustment by raising or lowering the cranked portion of the axle, means for raising or lowering the frame, and a stop on said screw shaft to engage the pivoted sleeve and limit rearward movement of the shaft when the frame is actuated by said frame raising and lowering means.

1,684,219. RESILIENT WHEEL. HUGO C. GIBSON, Philadelphia, Pa. Filed Jan. 24, 1927. Serial No. 162,994. 4 Claims. (Cl. 152—44.)



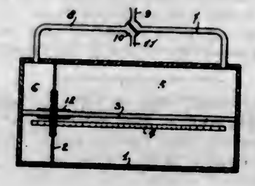
1. In a road wheel, a hub body having a fixed flange and a removable flange, a hollow wheel having wheel plates of ring form united by a substantially cylindrical band at their outer edges and by a radially corrugated bowl at their inner edges slidably mounted between said flanges, a radially corrugated disc mounted upon the hub body and within the radially corrugated bowl and having splines coacting with the hub body, the corrugations of the disc by coaction with those of the bowl permitting the axis of the hollow wheel with its bowl to become eccentric to the axis of the hub and the wheel to rotate in relation to the hub, such rotation being limited by the construction to less than the width of any one corrugation, and a spring interposed between the radially corrugated disc and the removable hub flange.

1,684,220. CHECK VALVE. JOHN L. GIBSON, Brooklyn, N. Y. Filed Dec. 16, 1925. Serial No. 75,768. 4 Claims. (Cl. 251—129.)



1. In a check valve, a valve seat having a discharge passage, a valve movable with respect to said seat and having a face adapted to engage the latter and close said passage, and one or more pockets formed in said valve face in opposite relation to said seat and adapted to be closed thereby, the said pockets having a bottom wall inwardly inclined from the face of said valve.

1,684,221. RESPIRATION GYMNASTIC APPARATUS. HENRI GOUGNARD, Ahin-lez-Huy, Belgium, assignor to Société Belge des Produits Rationnels, Societe Anonyme, Ahin-lez-Huy, Belgium, a Company. Filed Mar. 16, 1927, Serial No. 175,905, and in Belgium Mar. 18, 1926. 3 Claims. (Cl. 73—112.)



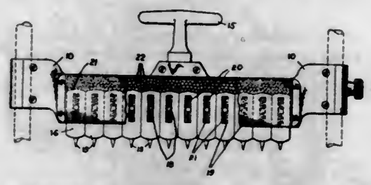
1. In a respiration apparatus, a transparent airtight cylinder having an interior longitudinal rod, a plate fitted to the interior of said cylinder and slidable upon said rod, a scale on said cylinder to indicate the position of said plate, inlet pipes communicating with the interior of said chamber near its ends and on either side of said plate, a third pipe and a cock connecting each of said inlet pipes alternately with said third pipe and with the atmosphere.

1,684,222. METHOD OF PRESERVING WOOD AND WOOD PRESERVATIVE. GILBERT GUNN, Pollokshaws, Scotland. Filed June 2, 1926, Serial No. 113,327, and in Great Britain Mar. 26, 1926. 9 Claims. (Cl. 99—12.)

1. As a new wood preservative, a slightly acid aqueous solution of a soluble chromate and a soluble copper salt.

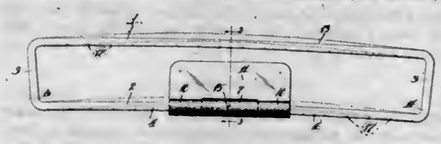
8. In the preservation of wood, the process which comprises treating wood with a slightly acid aqueous solution containing potassium dichromate and copper sulfate and their products of reaction, the proportion of potassium dichromate being greater than corresponds molecularly to the copper sulfate.

1,684,223. MEAT CLAMP. JOSEPH HOPKINSON, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed May 11, 1926. Serial No. 108,330. 15 Claims. (Cl. 146—217.)



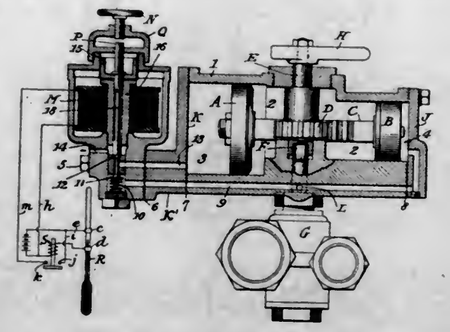
1. A clamping bar comprising a movable supporting structure and a plurality of clamping elements movably supported thereon for individual and independent movements in the line of movement of the supporting structure.

1,684,224. ADJUSTABLE DRAFTING INSTRUMENT. WALTER E. HOWDEN, Edwardsville, Ill. Filed Apr. 12, 1924. Serial No. 705,987. 4 Claims. (Cl. 33—177.)



1. A drafting instrument made from a length of resilient material bent into an oblong shape having the ends of the material length disposed on one side of the oblong, and drawing means connected to the ends of the material length for flexing a portion of the material length.

1,684,225. VALVE ENGINE FOR STEAM HEATING. LEE P. HYNES, Albany, N. Y., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y., a Corporation of New York. Filed Feb. 16, 1922. Serial No. 536,876. 13 Claims. (Cl. 236—84.)

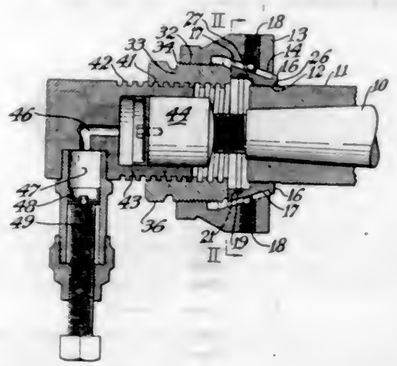


1. A fluid pressure valve engine comprising a rotatable shaft provided with valve stem engaging means, a reciprocably mounted operating member engaging said shaft, fluid pressure means for actuating said operating member, and a single magnetically controlled valve controlling said fluid pressure means.

1,684,226. WHEEL PULLER. DAVID CLEVELAND JOHNSON, Carbon Hill, Ala. Filed Feb. 2, 1928. Serial No. 251,438. 7 Claims. (Cl. 29—86.)

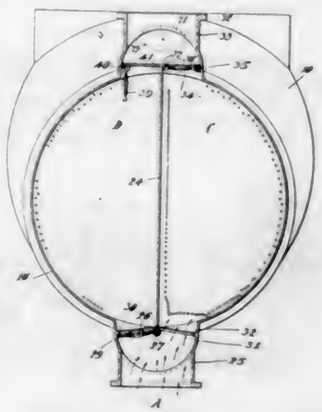
1. A wheel puller comprising an outer sleeve member having its inner surface bored to form a frustum of a cone, a plurality of internally threaded segmental hub engag-

ing members fitting within the outer sleeve, an inner sleeve member screwed into the outer sleeve member and bearing against the segmental members, said inner sleeve member



being internally threaded, and means screwed into the inner sleeve member and bearing against the wheel axle to exert a pulling force on the hub.

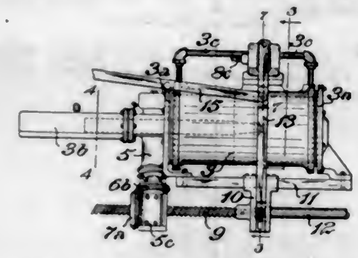
1,684,227. CONDENSER. EINAR A. JOHNSEN, Mountain Lakes, N. J., assignor to Engineering Development Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Jan. 6, 1927. Serial No. 159,274. 19 Claims. (Cl. 257—43.)



1. In a surface condenser, a shell, a plurality of tubes therein, and means in the condenser for reversing the direction of the flow of a cooling medium through the said tubes.

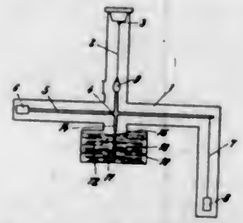
1,684,228. STEAM-ENGINE VALVE REVERSING GEAR. JULIUS KINDERVATER, New York, N. Y. Filed July 19, 1923. Serial No. 652,542. 4 Claims. (Cl. 121—41.)

1. In a valve cut-off and reversing gear, a fluid pressure cylinder, a piston fitted to traverse therein, means for admitting motive fluid to the cylinder, a piston rod secured to the piston and having a rack on one of its sides, a gear shaft journalled transversely to the line of traverse of the piston, a pinion on said shaft engaging the rack of the piston rod, a nut rotatably mounted, gears transmitting rotary motion from the gear shaft to said nut, a reversing screw engaging said nut, and a cross-head actuated by said reversing screw and operatively connected to the valve; said fluid admission means comprising an operating valve for controlling the supply and exhaust



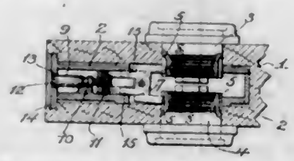
of motive fluid to and from the fluid pressure cylinder, a link between said operating valve and the cross-head, and a control rod operatively connected to said link.

1,684,229. MEASURING INSTRUMENT. JOHANN KOENIGSBERGER, Freiburg, Germany. Filed July 21, 1926, Serial No. 123,988, and in Germany Aug. 10, 1925. 4 Claims. (Cl. 265—68.)



3. In a liquid damping arrangement for measuring instruments, in particular for torsion balances, a damping device proper consisting of a plurality of discs suspended in the damping liquid, a short thin wire bearing said damping device and suspended from the suspended moving element of the instrument, said wire passing through the centre of the surface of the damping liquid.

1,684,230. SECURING OR CLAMPING MEANS FOR LOCK CYLINDERS. JOSEPH S. LACH, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Nov. 14, 1925. Serial No. 69,034. 1 Claim. (Cl. 70—46.)

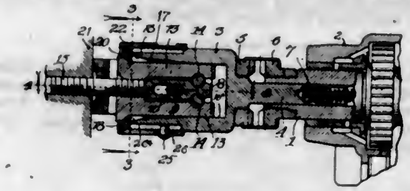


Means for securing lock cylinders comprising a yoke having open sides, a dog pivoted in the inner end of the yoke and constructed at its inner end to engage the lock cylinders, fingers projecting from the outer end of the dog between the top and bottom of the yoke and arranged to extend through the open sides of the yoke as the dog moves pivotally, and means for securing and adjusting the yoke.

1,684,231. STUD DRIVER. AXEL LEVEDAHL, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 20, 1925. Serial No. 24,697. 7 Claims. (Cl. 81—53.)

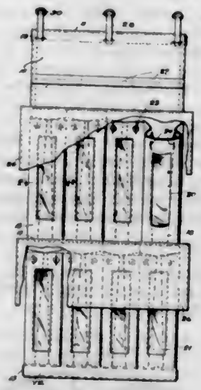
1. In a stud driver, the combination with a socketed body member, of a holder slidably retained in said socket

and having longitudinal slots and a cross-slot at the front end thereof, stud engaging jaws fulcrumed on the holder in the longitudinal slots with the outer ends of the jaws in the cross-slot, and coacting cam surfaces on the jaws



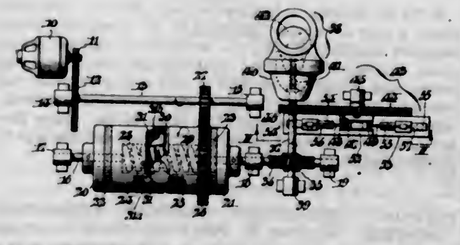
and body member, respectively, for engaging the jaws with and allowing the same to be released from a stud on sliding the outer end of the holder into and out of said socket.

1,684,232. SHOE AND LOCKER BAG. MAX LEVIT, Shenandoah, Pa. Filed Nov. 19, 1927. Serial No. 234,527. 7 Claims. (Cl. 150—52.)



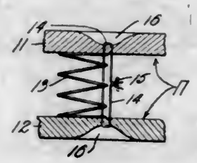
1. A shoe or locker bag comprising a backing sheet, pockets formed therewith and each comprising two plies of material stitched to said backing sheet and having a front cut-out portion, and transparent material inserted between said plies and closing said cut-out portion.

1,684,233. DIFFERENTIAL RELEASE TRANSMISSION. HARRY A. LEWIS, Norristown, Pa. Filed July 16, 1927. Serial No. 206,204. 9 Claims. (Cl. 192—142.)



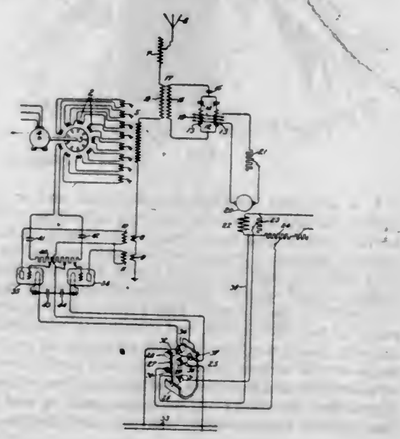
5. A differential release transmission comprising a motor, a transmission shaft with spaced abutments thereon, and a pair of loosely-mounted clutch members in the interval on the shaft, said clutch members having opposing wedge teeth interlapping with liberal circumferential clearance to permit lost motion and thereby enable the motor to pick up speed incidental to reversals in driving one of the clutch members before taking the load of the transmission shaft.

1,684,234. SPRING-CUSHION CONSTRUCTION. MORRIS LIPPS, New York, N. Y. Filed Aug. 2, 1924, Serial No. 729,700. Renewed Feb. 8, 1928. 4 Claims. (Cl. 5—351.)



1. In a spring cushion construction, cover members, coil spring members bearing at their ends against the inner surfaces of the cover members, and a cord loop passing through the cover members and surrounding one side of the coil spring member for holding the spring in position.

1,684,235. AUTOMATIC ANTENNA REGULATOR. JOSEPH E. LOVE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 12, 1925. Serial No. 75,112. 10 Claims. (Cl. 250—17.)

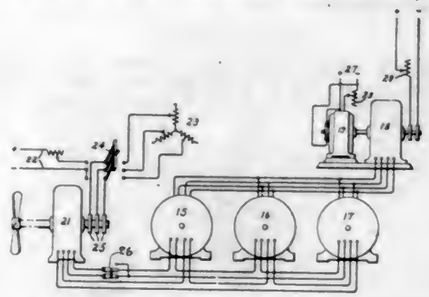


1. In combination, an antenna, a saturated core regulator associated with the antenna, said regulator including a regulating winding, a source of direct current connected to said winding, and means controlled by variations in the impedance of the antenna for varying the current supplied from said source to said regulating winding.

1,684,236. SYSTEM OF ELECTRIC SHIP PROPULSION. CAMPBELL MACMILLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 14, 1923. Serial No. 624,988. 6 Claims. (Cl. 172—8.)

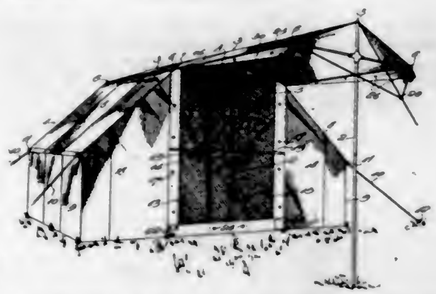
1. A system of ship propulsion comprising a polyphase propeller motor, a plurality of polyphase alternating current generators independently driven by prime movers subject to variations in speed and driving torque, and means for connecting each of the phase windings of said motor in

series with a corresponding phase winding of each of said generators whereby fluctuations of power generation in each prime mover may be absorbed directly by the main



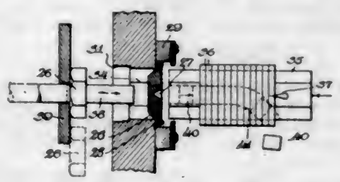
motor and propeller in such manner as to avoid interference with the steady production of power by the remaining generators.

1,684,237. TENT. HERBERT BAYNE MARBURY, Atlanta, Ga. Filed Apr. 8, 1927. Serial No. 182,047. 15 Claims. (Cl. 135—4.)



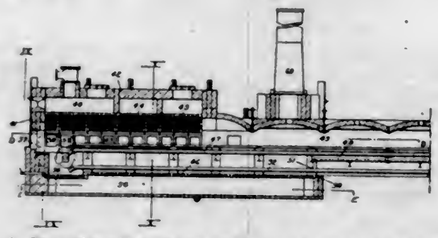
4. A tent body including a roof portion and an end wall portion having an entrance opening extending to the roof portion, supporting posts adapted to engage each end of the roof portion, a guard cloth suitably secured to the end wall adjacent said opening adapted to extend across the bottom of said opening and having its other end detachably connected to the opposite wall portion, screen netting secured to the roof portion and detachably connected to the end and guard portions to effect screening of said opening and a closure section secured to the roof portion, and adapted when extended to form a continuation thereof, means for supporting the closure in extended position and through said closure exert tension upon the roof portion.

1,684,238. METHOD OF MAKING NUTS. PAUL H. MCCAIN, Chicago, Ill., assignor to Economy Screw Corporation, Chicago, Ill., a Corporation of Illinois. Filed Mar. 17, 1924. Serial No. 699,769. 2 Claims. (Cl. 10—86.)



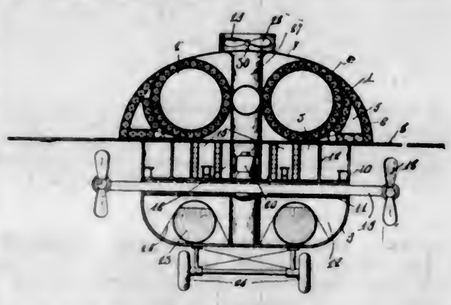
1. The method of making a nut which consists in subjecting a blank to pressure to shape one face thereof and form a flange upon the edge thereof, positioning said blank upon a die by means of said flange, exerting a pressing force throughout an annular region upon said blank to force said blank into said die to remove said flange and to shape the side walls of said nut, and exerting an opposing force to the region within said annular region to pierce said blank while said blank is disposed within said die.

1,684,239. GLASS LEER. WILLIAM A. MORTON, Pittsburgh, Pa., assignor to The Amsler-Morton Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1925. Serial No. 15,507. 7 Claims. (Cl. 49—47.)



1. In a glass leer of the muffle type having an endless conveyor for carrying wares therethrough, and in which the muffle overhangs the forward end of the conveyor, said leer having passages for the circulation of gases around the sides and under the bottom of the muffle, other passages at the sides of the forward end of the muffle for heating the portion of the muffle overhanging and in advance of the conveyor, and a surface over and in close proximity to which the forward end of the return portion of the conveyor moves, and a circulating passage under said surface through which gases passing through the said passages at the forward end of the muffle to heat the conveyor.

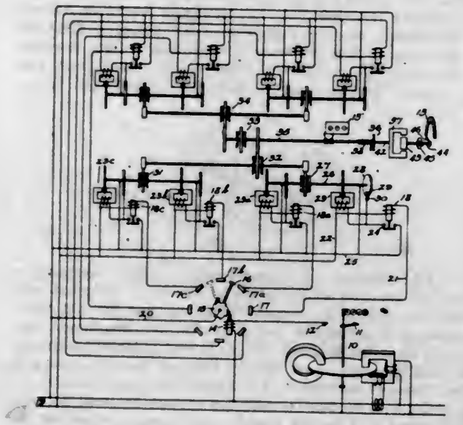
1,684,240. AERONAUTICS. JOSEPH E. PIGEON, Hollywood, Calif. Filed July 12, 1927. Serial No. 205,211. 4 Claims. (Cl. 244—7.)



3. In an airship, a horizontal longitudinally extending plane, a pair of tubular lighter than air sustaining bodies mounted longitudinally on the intermediate portion of the plane, a semi-circular roof covering the said sustaining bodies, and a fuselage secured to and suspended from the intermediate portion of the plane and extending in a longitudinal position thereunder, the sides of the plane projecting laterally beyond the sides of the roof and fuselage to provide longitudinal stabilizing wings.

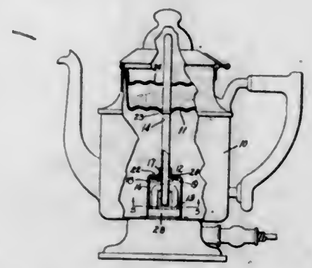
1,684,241. TELEMETRIC IMPULSE SUMMATION SYSTEM. WILLIAM H. PRATT and DAVID R. PRICE, Lynn, Mass., assignors to General Electric Company, a Corporation of New York. Filed Nov. 16, 1926. Serial No. 148,911. 14 Claims. (Cl. 177—351.)

2. Apparatus for producing an indication in response to electric impulses and proportional to the average impulse rate comprising an impulse responsive relay, differential means for producing rotary motion proportional to the sum of a plurality of separate rotary motions, driving means for said differential mechanism, means responsive to the operation of said relay for causing said driving means to consecutively impart a plurality of predeter-



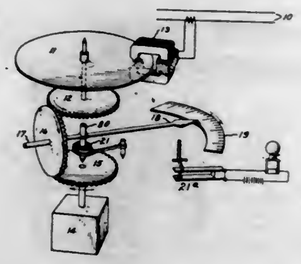
mined individual rotary motions, each of appreciable duration as compared to the duration of an impulse, to said differential mechanism at as many different driving points in response to consecutive impulses, and means driven by said differential mechanism for converting irregular rotary motion into a steady deflection proportional to the average rotary motion rate.

1,684,242. PERCOLATOR. CHARLES P. RANDOLPH, Oak Park, Ill., assignor to Edison Electric Appliance Company, Chicago, Ill., a Corporation of New York. Filed Dec. 13, 1926. Serial No. 154,357. 6 Claims. (Cl. 53—3.)



1. A percolator comprising a vessel, an electric heating unit secured to the bottom of said vessel so as to project upward into the interior thereof, a cap member set over said heating unit so as to form a heating space, said cap member being provided with an inlet orifice at the top, a tube secured to said cap member and extending through the top of said cap member into said heating space, and a valve in said heating space mounted on said tube arranged to be lifted to close said inlet orifice to prevent discharge of liquid therethrough from said heating chamber.

1,684,243. MEASURING DEVICE. THEODORE A. RICH, East Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 25, 1926. Serial No. 118,583. 10 Claims. (Cl. 171—95.)



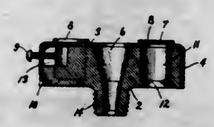
2. A measuring device comprising a rotating induced member and a stationary inducting member for producing a variable flux cutting said induced member, means for driving said induced member, and resilient means through which the induced member is driven for measuring the torque between said members.

1,684,244. CARTON. BESS E. RICHARDSON, Los Angeles, Calif. Filed Nov. 29, 1926. Serial No. 151,474. 5 Claims. (Cl. 229—8.)



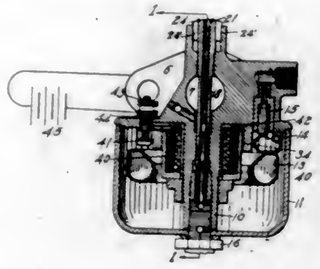
1. A carton cut from a single blank of material comprising a main support formed in the shape of a human figure, and a receptacle associated with said support in simulation of a burden carried by said figure.

1,684,245. CEILING BOX. WILLIAM T. RUETE, New York, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 17, 1923. Serial No. 669,189. 3 Claims. (Cl. 247—15.)



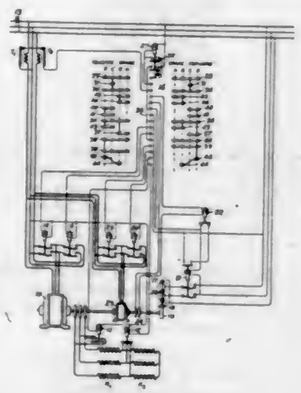
3. A ceiling box comprising a sheet metal outer portion consisting of integral bottom and peripheral side wall, said bottom having plugged conduit holes therein and said side wall having tapped screw holes therein, an oblong cast metal inner portion provided with apertures therein in alignment with the conduit holes of said outer portion and recesses extending from said apertures to the ends thereof in alignment with said screw holes, and means for securing said inner portion in fixed relation to said outer portion.

1,684,246. CARBURETOR. JOHN S. SALVA, Latonia, Ky., assignor to The Salva Carbureter Company, Covington, Ky., a Corporation of Kentucky. Filed Feb. 8, 1926. Serial No. 86,825. 3 Claims. (Cl. 261—12.)



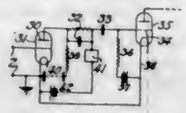
1. In a carburetor comprising a mixing chamber, a float chamber, a standpipe central of the float chamber, a tubular needle valve in the standpipe and central thereof, a heater drum surrounding the standpipe, a helical passage provided in the drum, and passages in the standpipe so provided that they communicate with the passage in the drum in such manner that the mixture is compelled to pass from the float chamber through the helical passage on its way to the mixing chamber.

1,684,247. MOTOR-CONTROL SYSTEM. CARL SCHIEBELER, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed June 20, 1927, Serial No. 200,092, and in Germany July 1, 1926. 2 Claims. (Cl. 172—179.)



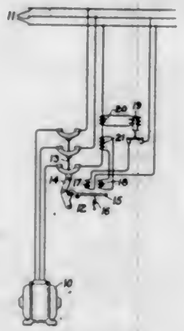
1. The combination of an alternating current motor, an electromagnetic brake therefor, switch mechanism for establishing power connections to release the brake and effect motoring operation of the motor in each direction, said switch mechanism being operable to establish reverse power braking connections for the motor after motoring operation in each direction, an auxiliary motor mechanically connected to be driven by the first motor and connected under the control of said switch mechanism for phase rotation in a direction corresponding to motoring operations of the first motor during both the motoring and reverse power braking of the motor in each direction, and an electro-responsive switch connected under the control of said switch mechanism to be operated responsively to the voltage induced in the rotor windings of the auxiliary motor when the reverse power braking torque of the first motor brings the same substantially to rest for controlling said electro-magnetic brake to maintain the first motor at rest.

1,684,248. CABLE TELEGRAPHY AND THE LIKE AND CIRCUIT THEREFOR. WILLOUGHBY STATHAM SMITH, Benchams, Newton Poppleford, and NORMAN WILLIAM MCLACHLAN and WILLIAM GORDON REED JACOB, London, England. Filed Feb. 23, 1928, Serial No. 256,402, and in Great Britain Aug. 19, 1926. 6 Claims. (Cl. 178—70.)



1. An electron tube amplification system including a pair of electron tubes each having grid, filament and plate electfodes, an output circuit for one of said tubes including a source of potential and an impedance connected in series between the plate and filament electrodes of said tube, an input circuit disposed between the grid and filament electrodes of a succeeding electron tube, an impedance, a conductive coupling system disposed between said input and output circuits, and means connected between said impedance conductive coupling system and a point in the output circuit of said first mentioned tube comprising an independent source of potential and an impedance for selectively compensating for the effects of the source of potential in said output circuit upon the grid of said succeeding tube.

1,684,249. AUTOMATIC CIRCUIT CONTROLLER. ALEXANDER R. STEVENSON, Jr., Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 9, 1925. Serial No. 7,801. 5 Claims. (Cl. 175—294.)



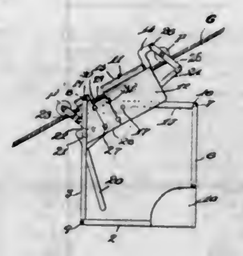
1. An automatic circuit interrupter comprising a movable switch member biased to the circuit opening position, electroresponsive means for holding the member in the circuit closing position, current responsive means arranged to be energized responsively to the current in the circuit controlled by the interrupter for effecting the release of said switch member responsively to predetermined current conditions in the controlled circuit, and electroresponsive means for independently maintaining the switch member in the circuit closing position when the current in the controlled circuit exceeds the safe interrupting capacity of the interrupter.

1,684,250. ROCKING-HORSE TOY. GILBERT H. TEGELBERG, Inglewood, Calif. Filed Nov. 1, 1926. Serial No. 145,566. 5 Claims. (Cl. 208—42.)



1. A rocking horse toy comprising in combination, a longitudinal frame having a pivotally connected crossbar, a wheel mounted on the rear end of the frame for free rotary movement in one direction, wheels on the crossbar one at each end thereof, a slat hingedly connected to the frame adjacent the crossbar, a saddle mounted on the slat, and a spring connecting the slat and the frame.

1,684,251. SAFETY CARRIAGE FOR DERRICKS. CHARLES E. THOMAS, Long Beach, Calif. Filed Feb. 24, 1927. Serial No. 170,661. 7 Claims. (Cl. 227—12.)



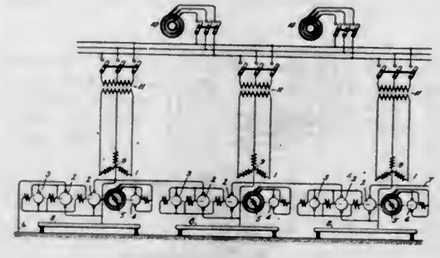
1. A safety carriage comprising in combination a chassis, means for suspending the same from a guy rope, said means comprising pulleys mounted on said chassis, a frame pivoted to said chassis, a brake on said chassis adapted to bear against said guy rope, and means for causing said pulleys to release their engagement with said guy rope.

1,684,252. DENTAL INSTRUMENT. GEORGE W. TODD, Omaha, Nebr., assignor to Rhena Todd, Omaha, Nebr. Filed Apr. 16, 1927. Serial No. 184,288. 4 Claims. (Cl. 32—10.)



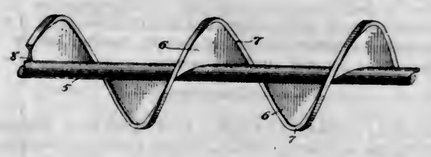
1. In a dental instrument, a pair of pivotally connected handles providing a jaw and a second jaw at their distal ends, the first named jaw having a concaved inner surface and a convergent terminal, a saw-blade mounted on the second jaw, the parts being of such proportion that said convergent terminal will normally be disposed in a plane between the ends of the saw-blade.

1,684,253. DYNAMO-ELECTRIC MACHINE. FRANK P. WHITAKER, Rugby, England, assignor to General Electric Company, a Corporation of New York. Filed July 27, 1925, Serial No. 46,281, and in Great Britain July 31, 1924. 4 Claims. (Cl. 172—239.)



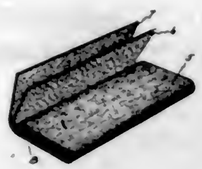
1. In a high voltage direct current system, a plurality of motor generator sets, each motor generator set comprising a motor and a generator, the generators of said sets being connected in series, base plates on which said motor generator sets are mounted, means for insulating said base plates from ground, and means for electrically connecting the stator winding of the motor and the armature winding of the generator of each motor generator set to the base plate on which it is mounted.

1,684,254. ENDLESS SPIRAL CONVEYER. JOSEPH OSWELL BAILEY, Atlanta, Ga. Filed Apr. 26, 1927. Serial No. 186,791. 4 Claims. (Cl. 198—213.)



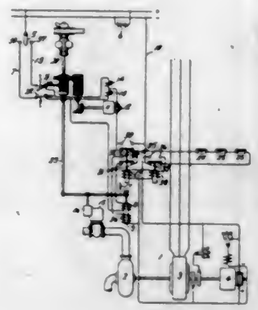
1. An endless conveyer comprising a shaft, a continuous spiral blade member helically mounted on and secured to the shaft, said blade having its inner and outer edges thickened.

1,684,255. MAGNETIC WEDGE. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 8, 1926. Serial No. 86,694. 2 Claims. (Cl. 171—252.)



1. A dynamo-electric machine comprising a core structure having slots therein, a winding in the slots, and means for closing the slots comprising rolls of magnetic cloth having between the convolutions thereof a roll of fabric impregnated with a resinous condensation product.

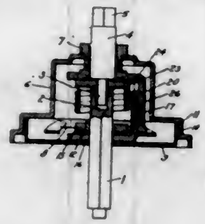
1,684,256. CONTROL SYSTEM. ELMER F. BLISS, Alplaus, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 14, 1924. Serial No. 732,079. 9 Claims. (Cl. 290—7.)



1. In combination, an automatic station comprising a source of current and automatic control means therefor, a remote control station, a control circuit connecting said stations, an auxiliary source of current switching means at said remote control station for controlling the energization of said control circuit from said auxiliary source of current, electroresponsive means at said automatic station connected to said control circuit and arranged, when energized, to effect the operation of said automatic control means to start said automatic station and maintain it in operation, and means responsive to a predetermined condition of said automatic station for disconnecting said electroresponsive means from said auxiliary source and for completing another energizing circuit therefor which is independent of said auxiliary source.

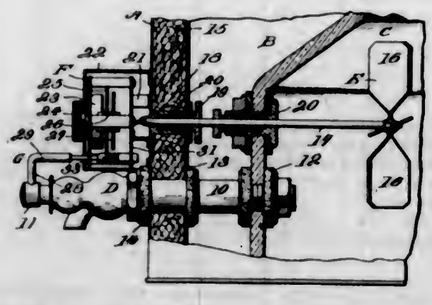
1,684,257. SNAP-SWITCH MOVEMENT. RICHARD BOELTER and ERNST BARTZ, Berlin, Germany, assignors to General Electric Company, a New York Corporation. Filed June 19, 1925, Serial No. 38,362, and in Germany Nov. 7, 1924. 2 Claims. (Cl. 74—14.)

1. A double snap movement for rotary switches comprising spaced stop lugs, flexible stop arms connected to the movable member of the switch and adapted to engage opposite sides of the respective stop lugs, a spring associated with said stop arms, and a rotary actuator having spaced crank legs engaging said spring and said stop arms



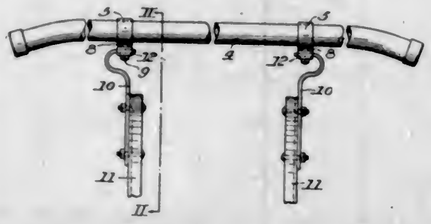
and adapted to tension said spring and thereafter deflect one or other of said stop arms from the instant lug according to its direction of rotation.

1,684,258. DISPENSING APPARATUS. ATWOOD L. BOGGS, Stoughton, Mass. Filed Sept. 13, 1926. Serial No. 135,106. 4 Claims. (Cl. 225—21.)



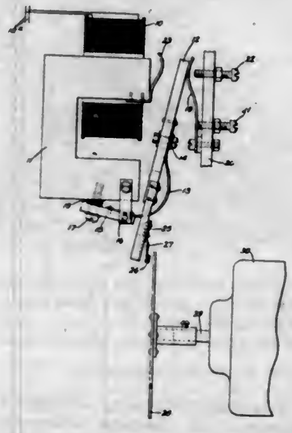
3. An apparatus for dispensing liquids comprising a container for the liquid, a draw-off valve, an agitator mounted upon a horizontal shaft and connected to a motor, a lock member carried by the valve and in engagement with the motor for locking the motor against running when the valve is in closed position.

1,684,259. AUTOMOBILE BUMPER. FREDERICK G. BAEMER, Pittsburgh, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 19, 1928. Serial No. 271,143. 14 Claims. (Cl. 293—55.)



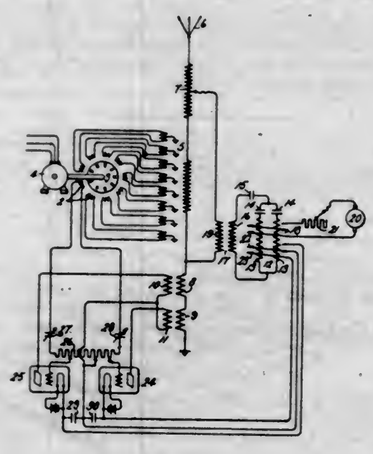
1. Bumper structure comprising a bumper bar, a riser therefor, a support for the riser, means for connecting the outer end of the riser to the said bar, and means for connecting an inner portion of the riser to the support, the inner end of the riser partially embracing said support.

1,684,260. VIBRATORY DEVICE. HAROLD W. BROWN and ALLEN E. BAILEY, Jr., Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed July 28, 1925. Serial No. 46,686. 8 Claims. (Cl. 175—338.)



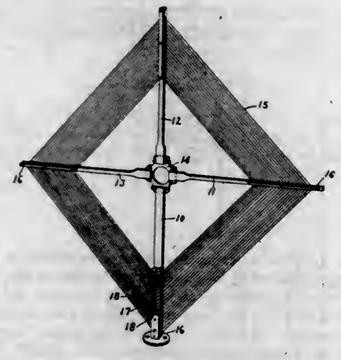
1. A vibratory device comprising a magnet coil arranged to be energized intermittently, an armature movable toward and away from said coil from one position to another, and means for causing said armature to periodically occupy its position remote from said coil when the coil is energized whereby the frequency of vibration of said armature is reduced.

1,684,261. AUTOMATIC ANTENNA REGULATOR. WILLIAM W. BROWN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 29, 1925. Serial No. 78,202. 13 Claims. (Cl. 250—40.)



1. In combination, an antenna, means for maintaining the tuning of the antenna substantially constant, said means including a saturated core regulator and means for energizing said regulator in response to variations in said antenna tuning.

1,684,262. ANTENNA. REGINALD CHARLES CLINKER, Bilton, near Rugby, England, assignor to General Electric Company, a Corporation of New York. Filed Feb. 13, 1924, Serial No. 692,463, and in Great Britain Feb. 28, 1923. 12 Claims. (Cl. 250—33.)



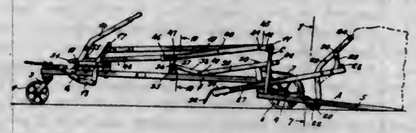
4. A loop antenna frame construction which comprises a plate, a plurality of antenna supporting arms radiating from said plate and pivoted thereto, and means on the arms adapted to automatically lock the arms to the plate when the arms are moved to normal expanded position.

1,684,263. HOT-CATHODE DEVICE. WILLIAM D. COOLIDGE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 17, 1924. Serial No. 738,246. 8 Claims. (Cl. 250—35.)



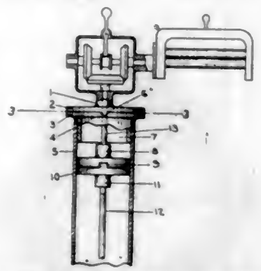
1. An electrical discharge device containing a cathode which is constructed to permit operation at a temperature of electron emission together with a material having a higher electron emissivity than said cathode and being capable of varying the electron emission at the cathode, the provision of means within the device for limiting the space current therein to a predetermined value for a given impressed voltage.

1,684,264. PUSH OFF FOR SWEEP RAKES. JOSEPH H. COPE, Denver, Colo. Filed Feb. 27, 1926. Serial No. 91,053. 9 Claims. (Cl. 56—395.)



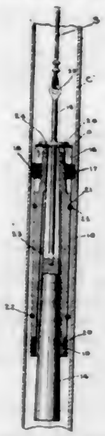
1. A sweep rake comprising, in combination, a frame, a rake head tiltably connected to the frame, means for tilting the rake head with respect to the frame, a push off frame having its lower end pivotally connected with the rake head, a push off bar having one end pivotally connected with the push off frame between the pivot point and the free end, the free end of said bar having means for engaging the ground, and means for raising the free end of the bar out of engagement with the ground when the rake head is tilted in one direction.

1,684,265. CONTROLLING MECHANISM FOR WRINGERS AND OTHER MACHINERY. HARRY J. CRINER, Clarinda, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa. Filed Mar. 5, 1925. Serial No. 13,402. 3 Claims. (Cl. 68—32.)



2. An automatic wringer release comprising a driving mechanism, operating mechanism connected to the wringer rolls, a disengageable clutch coupling between the driving mechanism and the wringer roll operating mechanism, and means secured adjacent the roll operating mechanism adapted to automatically disengage the clutch coupling when the wringer rolls are accidentally stopped by becoming clogged with an excess thickness of material fed thereto.

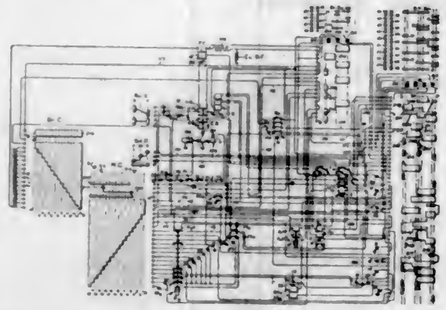
1,684,266. BRIDGING PLUG. RALPH D. FISHER and EDWIN M. REARDON, Long Beach, Calif. Filed Aug. 24, 1927. Serial No. 215,100. 7 Claims. (Cl. 166—13.)



1. A bridging plug comprising means forming a plurality of segments of a cylinder, a mandrel capable of being moved upwardly within the segments to separate them, means attached to the mandrel for lowering the device within a well casing, said means being detachable after the segments have been expanded, so as to be capable of being removed from the well casing, leaving the plug therein, and slips carried by said segments engageable upon the casing, some of the slips being designed to prevent upward movement of the plug within the casing, and others being designed to prevent downward movement of the plug within the casing.

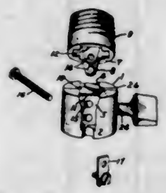
1,684,267. MOTOR CONTROLLER. WILLIAM S. H. HAMILTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 10, 1925. Serial No. 74,576. 26 Claims. (Cl. 172—179.)

1. The combination with a plurality of electric motors adapted for operation in a plurality of speed relations, of means for controlling the speed relation in which the motors are to operate, and independently operable means for controlling the operating speeds of the motors and



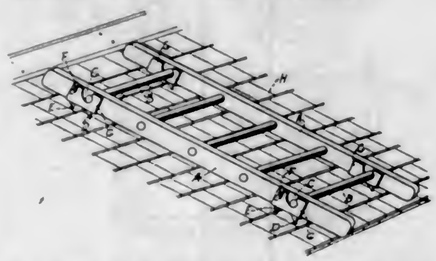
arranged to cooperate with said first means for controlling the interconnection of the motors in a lower speed relation without interrupting the continuity of motor torque when the motors are operating in a higher speed relation.

1,684,268. INCANDESCENT-LAMP SOCKET. DAVID HAYS, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1924. Serial No. 747,405. 4 Claims. (Cl. 173—351.)



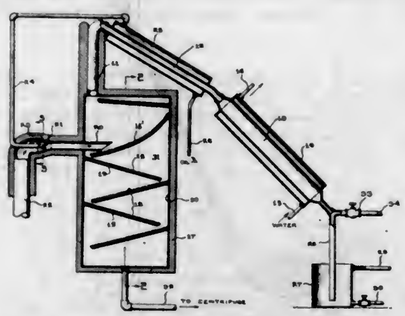
1. A lamp socket comprising an insulating base having a transverse aperture therein and shouldered lips adjacent said aperture, a screw shell contact having holding ears at one end thereof extending over and beneath said lips and engaging opposite sides of said base, a binding post for said shell contact, and a screw passing through said base, said ears and said binding post and serving to retain them in fixed assembled relation.

1,684,269. FASTENING DEVICE FOR LADDERS. GEORGE J. HEBNER, Rochester, N. Y. Filed Mar. 19, 1927. Serial No. 176,794. 1 Claim. (Cl. 228—60.)



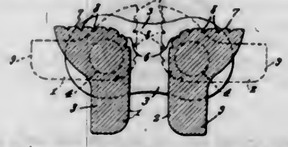
In a device of the character described, in combination with a ladder having side rails and rounds, a substantially U-shaped body member having cut-out portions in its sides thereby to embrace a side rail of the ladder and a round thereof to prevent relative movement of the ladder and body member, and an auxiliary attaching means for preventing such relative movement comprising a thumb screw operative between said body member and rail, said body member having projections on its under side for engaging a roof.

1,684,270. OIL RECLAIMER. ARNOLD L. HENNY, Portland, Oreg. Filed Aug. 12, 1925. Serial No. 49,848. 3 Claims. (Cl. 196—16.)



1. An oil purification apparatus of the distillation type comprising the combination of a casing having an inlet nozzle, a hot vapor supply pipe in communication with said inlet nozzle, an oil supply pipe having a spray tip at its delivery end opening into said vapor supply pipe, and an upwardly curved baffle plate having its lower end immediately adjacent, approximately tangential to and below the axis of said nozzle.

1,684,271. BELT FASTENER. MACK B. HENRY and ARNOLD L. CADENHEAD, Norphlet, Ark. Filed July 8, 1927. Serial No. 204,333. 1 Claim. (Cl. 24—31.)



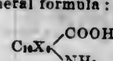
A belt fastener of the character described comprising cam members, pivot pins therefor, links pivotally receiving said pivot pins and securing said cam members for cooperative association, longitudinally toothed cam faces included in said cam members and being provided with arcuate portions merging into straight portions and reduced finger engaging portions formed with said cam members.

1,684,272. DINAPHTHYL-DICARBOXYLIC ACID AND PROCESS OF MAKING SAME. RICHARD HERZ, Frankfort-on-the-Main, and WERNER ZERWECK, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 23, 1926, Serial No. 118,081, and in Germany July 2, 1925. 8 Claims. (Cl. 260—108.)

1. A new process for manufacturing dinaphthyl-dicarboxylic acids of the general formula:

$$(C_{10}X_6)_2(COOH)_2,$$

wherein the X's stand for hydrogen atoms of which one or more may be replaced by a monovalent substituent, consisting in treating the diazocompounds of aminonaphthoic acids of the general formula:

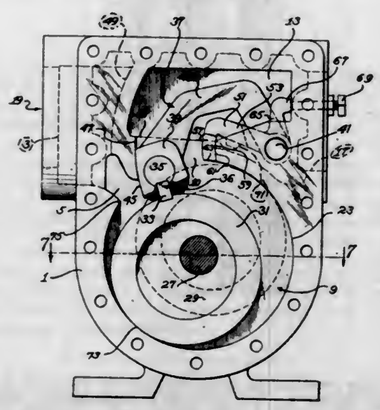


wherein the X's stand for hydrogen atoms, of which one or more may be replaced by a monovalent substituent, with a reducing agent.

1,684,273. MANUFACTURE OF CHLORIDES OF AROMATIC ORTHO-HYDROXY-CARBOXYLIC ACIDS. ERIC BERKELEY HIGGINS, Brentford, England, assignor of one-half to British Synthetics Limited, Manchester, England, a Company of Great Britain. Filed Mar. 31, 1927, Serial No. 180,069, and in Great Britain July 20, 1926. 6 Claims. (Cl. 260—123.)

3. The process for making 2:3 hydroxynaphthoyl chloride which consists in mechanically grinding together an inorganic salt of 2:3 hydroxynaphthoic acid and thionyl chloride.

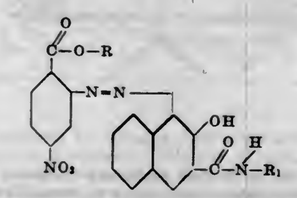
1,684,274. ROTARY PUMP. SHERWOOD HINDS, St. Louis, Mo., assignor to St. Louis Pump & Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed May 26, 1924, Serial No. 715,849. Renewed Feb. 11, 1928. 8 Claims. (Cl. 103—132.)



1. A pump comprising a casing having intake and discharge chambers and a cylinder, a drive shaft in the cylinder, an eccentric on the drive shaft, a strap on the eccentric, the strap having a close fit within the cylinder whereby rotation of the shaft causes the strap to force fluid ahead of the strap and to draw fluid in behind the strap, the cylinder having an opening, a rocker mounted in the casing, a link connecting the rocker and strap and serving as a seal between the intake and discharge chambers, and an oscillating check valve mounted coaxially with the rocker and forced against the strap by pressure of fluid in the discharge chamber when the grazing point of strap against cylinder reaches the incomplete portion of the cylinder.

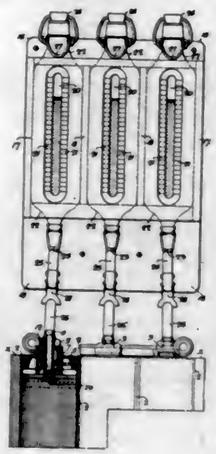
1,684,275. AZO DYE AND PROCESS FOR PREPARING THE SAME. ERWIN HOFFA and ERICH FISCHER, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed July 27, 1926, Serial No. 125,326, and in Germany Aug. 1, 1925. 6 Claims. (Cl. 260—95.)

3. As new products, the azo dyes of the following composition



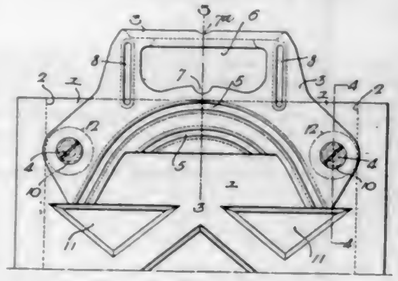
wherein R represents the residue of an aliphatic or aromatic alcohol, R_1=hydrogen, an alkyl-, aryl- or aralkyl-residue.

1,684,276. MEANS FOR REPLENISHING ELECTROLYTIC CELLS. WALTER E. HOLLAND, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 23, 1920. Serial No. 398,457. 5 Claims. (Cl. 137—68.)



1. The combination of an electrolytic cell; and a barometric device for maintaining a substantially constant liquid level therein, including a filling tube having an outlet smaller than will allow passage of the filling liquid when said tube is connected as for use but without external liquid adjacent said outlet.

1,684,277. BATTERY-REENFORCING HANDLE. WALTER E. HOLLAND, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 1, 1921. Serial No. 519,169. 6 Claims. (Cl. 16—125.)



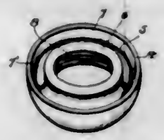
1. A handle for battery containers consisting of a substantially flat body of sheet material formed with a projecting rib having its ends directed downwardly; said rib being adapted to engage with the surface of the container with which the handle is used.

1,684,278. GOLF CLUB. ARCHIBALD B. HORNE, Springfield, Mass. Filed Dec. 14, 1927. Serial No. 239,908. 6 Claims. (Cl. 273—80.)



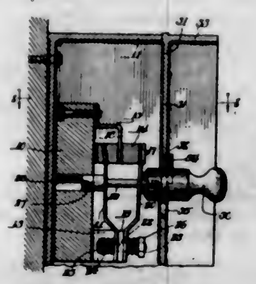
1. A golf club comprising a tubular shaft member, a head to which the shaft is attached, means located within the shaft and connected at its opposite ends to the shaft for preventing the flying off of the head in the event of the breaking of the shaft.

1,684,279. INSECT GUARD FOR FURNITURE. VONNIE D. HUMPHREY, Bishopville, S. C. Filed May 7, 1927. Serial No. 189,655. 8 Claims. (Cl. 43—109.)



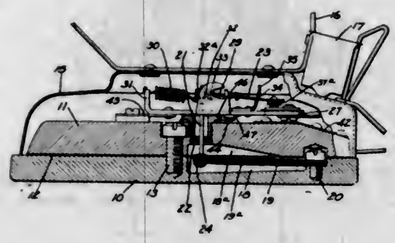
1. An insect guard for the purpose set forth comprising an automatically adjustable body portion in the form of an annulus possessing a clamping characteristic for connection to the leg of an article of furniture, said body formed with an annular trough opening at the top thereof, and said body formed on its inner face with spaced annular ribs.

1,684,280. ELECTRIC SWITCH. DON F. JONES, Beloit, Wis. Filed June 14, 1926. Serial No. 115,711. 7 Claims. (Cl. 200—6.)



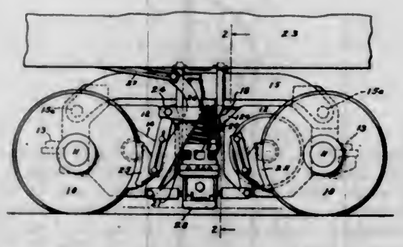
1. An electric switch comprising, in combination, a base, three circuit terminals mounted on said base, each of said terminals having a contact surface in spaced relation from and substantially parallel to said base, two of said terminals being mounted on said base so that their contact surfaces are positioned one ahead of the other, a pair of contact members movably mounted on said third terminal and extending therefrom in the same general direction, a spring cooperating with each of said contact members for holding said members in a predetermined position with respect to said terminal, said contact surfaces of each of said two first mentioned terminals being arranged to be selectively engaged by said contact members.

1,684,281. TEMPERATURE REGULATOR FOR ELECTRIC HEATERS. WILLIAM D. KELLY, Western Springs, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed Mar. 21, 1925. Serial No. 17,395. 1 Claim. (Cl. 200—139.)



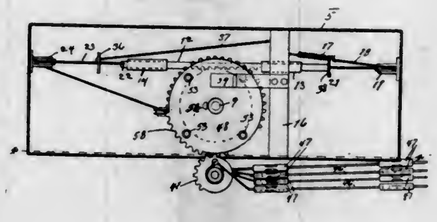
A temperature regulator for electric heaters comprising a movably mounted support, a switch arm pivotally mounted on said support, a helical spring having one end connected to said support, a link connecting the other end of said spring with said switch arm, a thermostat, and a connection between said thermostat and the junction between said spring and said link whereby said switch arm is snapped from one position to another by said thermostat to maintain a predetermined temperature, and means for adjusting said support to change the temperature setting.

1,684,282. RAILWAY TRUCK. OLE K. KJOLSETH, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 31, 1927. Serial No. 195,249. 12 Claims. (Cl. 105—139.)



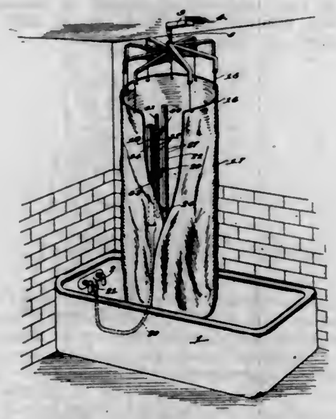
1. A locomotive or car truck comprising wheels and axles, an equalizer supported by said axles, a bolster, a spring seat below said equalizer, means for supporting said spring seat on said equalizer, said supoprting means engaging said bolster for maintaining said spring seat in alignment with said bolster, and a spring for supporting said bolster on said spring seat.

1,684,283. MUSIC-LEAF TURNER. WILHO E. LAHTI, Windsor, Calif. Filed Oct. 3, 1927. Serial No. 223,689. 1 Claim. (Cl. 84—515.)



In a music leaf turner, a box-like structure, a shaft positioned within said structure, a floating gear positioned on said shaft, a ratchet secured to said shaft, a rack engaging said floating gear and adapted to actuate said gear, a dog carried by said gear and engaging said rachet, a plurality of spaced discs secured to said shaft, teeth formed upon a portion of the periphery of each of said discs, a second shaft positioned parallel to said first mentioned shaft, mutilated gears positioned on said second mentioned shaft, and adapted to be engaged by the teeth of said first mentioned discs, arms carried by said mutilated gears and means for intermittently actuating said rack bar, said means including a tension device secured to one end of said rack bar for maintaining said rack bar in its normal position, and a cable extending to a remote point.

1,684,284. BATH-CURTAIN SUPPORT. HARRY MADISON, Council Bluffs, Iowa. Filed Nov. 9, 1926. Serial No. 147,281. 3 Claims. (Cl. 4—152.)



1. In a support for curtains, a pivot element depending from an elevated support, a plurality of supporting arms having vertical openings in their inner end portions through which said pivot element extends, said arms being swingable about the axis of said pivot element, and braces staying said arms to said pivot element and maintaining said arms substantially horizontal.

1,684,285. BOTTLE-CAP RECEIVER. JOHN HENRY MCDONALD, Hamberg, N. Dak. Filed Aug. 30, 1926. Serial No. 132,531. 2 Claims. (Cl. 65—46.)

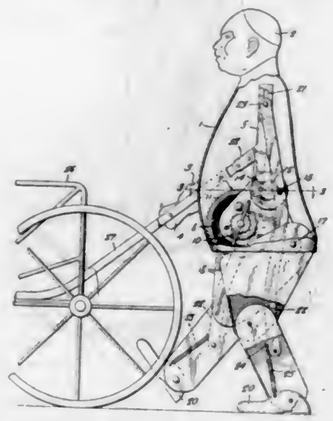


1. A receptacle for receiving bottle closures from a remover, comprising a body part and a spring controlled hinge part at the upper end of the body part for permitting a bottle to be engaged with a remover.

1,684,286. METHOD OF WEIGHTING SILK AND THE PRODUCT THEREOF. ROBERT J. O'BRIEN, Jr., Belleville, N. J., assignor to Collway Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed Dec. 16, 1924. Serial No. 756,365. 5 Claims. (Cl. 8—13.)

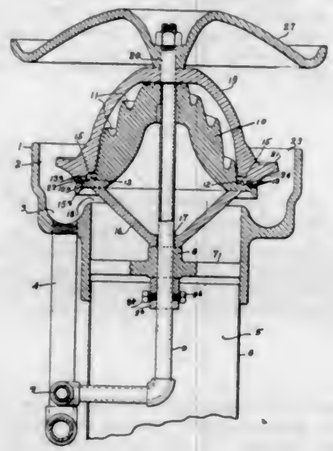
1. The method of treating silk which consists in weighting the same applying to silk threads rubber in solution the rubber at the time of application being in a colloidal state.

1,684,287. FIGURE TOY. ALEXANDER E. PALUCK, Belfield, N. Dak., assignor of one-half to Stanislaus J. Cieslewics, Wibaux, Mont. Filed July 15, 1927. Serial No. 206,067. 3 Claims. (Cl. 46—45.)



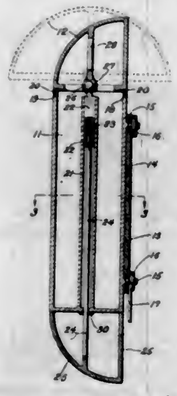
1. A toy of the character described coprprising a body including shoulders and a head, jointed legs pivotally secured to said body, feet pivotally secured to the legs, a frame in said body, parallel arranged uprights included in said frame and having their upper ends bent upon themselves and secured to the shoulders, plates formed with said uprights, a spring motor secured between said plates, levers mounted for reciprocation and connected with said uprights and the legs, means operated by said spring motor to reciprocate said levers for moving said legs, and springs having their end convolutions secured to the lower ends of the levers and feet respectively for moving the feet upon the movement of said legs.

1,684,288. OIL BURNER. RAYMOND H. SMITH and CLEM B. MEYERS, Richmond, Ind. Filed Oct. 23, 1926. Serial No. 143,582. 7 Claims. (Cl. 158—91.)



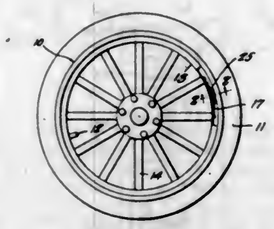
1. An oil burner comprising a casing whose upper end forms a mixing chamber, an oil supply pipe extending upwardly through the casing, a deflector within the casing to direct incoming air into the mixing chamber, an oil distributer at the upper end of the oil supply pipe fashioned with a continuous inclined spiral channel terminating at its base in a circular groove, a plurality of projections having staggered openings between them for the flow of the oil in fine streams into the mixing chamber and a dome-shaped shield extending over the distributer.

1,684,289. WATERPROOF CONTAINER. WARREN A. RAMSAY, Jersey City, N. J. Filed Nov. 19, 1926. Serial No. 149,413. 2 Claims. (Cl. 220—38.)



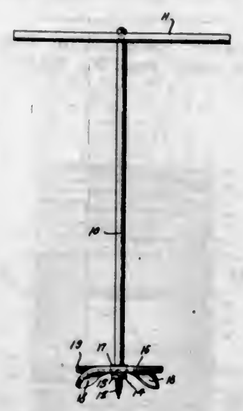
1. A watertight container comprising a hollow body open at its top, a sleeve rising from the bottom of said body, a block slidable within said sleeve, a rod extending through said sleeve and threaded to said block, said rod having a member fixed thereon for engagement with the bottom of said body, a cover for sealing engagement with the open end of said body, a bail provided on the top end of said block and a shank depending from said cover and having a socket on the free end thereof for the reception of said bail.

1,684,290. BALANCING MEANS FOR VEHICLE WHEELS. WILLIAM J. STARLING, Chicago, Ill. Filed Oct. 18, 1926. Serial No. 142,334. 4 Claims. (Cl. 301—5.)



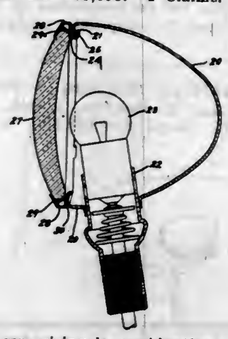
2. A balancing device including a base weight member, a top weight member, and means connecting the top member to the base member permitting relative adjustment between said top member and said base member.

1,684,291. AUGER. FRANK SUMMERS, Memphis, Tenn., assignor of one-half to Leopold Urbancic, Memphis, Tenn. Filed June 2, 1927. Serial No. 196,054. 1 Claim. (Cl. 255—70.)



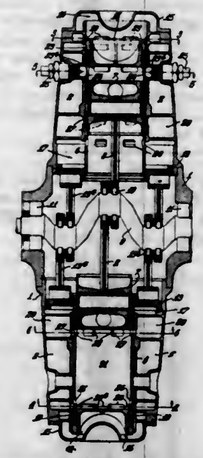
A post hole digger comprising a handle member provided with a spirally threaded end portion, a propeller blade carried by the handle member immediately above the spirally threaded end and which is helically pitched and curvilinear to dispose the extremities thereof downwardly toward the earth in order that the earth may be readily broken up about the course pursued by the aforementioned end, a disk member mounted upon the handle, said disk having portions removed upon diametrically opposite sides thereof, depending portions upon the disk being extended to greater depths than the ends of said propeller, and an upstanding flange portion provided upon the marginal edges of the disk and depending portions to prevent displacement of the earth deposited upon the disk and from injuring the side walls of the post hole.

1,684,292. ELECTRIC LAMP. EDWARD TURNQUIST, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Feb. 3, 1927. Serial No. 165,698. 4 Claims. (Cl. 240—41.)



1. A lamp, comprising in combination, a lamp body; a rim secured to said lamp body; a lens engaged by said rim; and a contractible molding having one portion engaging the lens and another portion engaging the lamp body and rim, said latter molding portion exerting pressure upon the rim to force it into pressing engagement with the lens and in turn force the lens against the first mentioned portion of the molding when said molding is contracted.

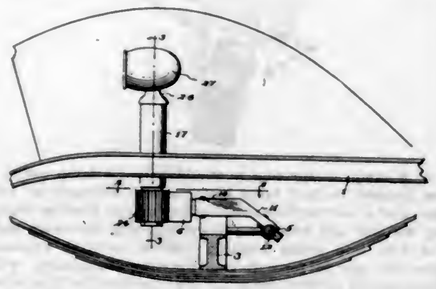
1,684,293. INTERNAL-COMBUSTION ENGINE. WILLIAM ALLAN, Dundee, Scotland. Filed Mar. 3, 1927, Serial No. 172,445, and in Great Britain Oct. 6, 1926. 2 Claims. (Cl. 123—50.)



1. In a two stroke cycle internal combustion engine the combination of a crank shaft, a crank case, a stationary cylinder radial to the shaft, having its bore enlarged at the inner end to form a compression chamber, and having also a compression chamber at the outer end, a piston cylinder slidable in said stationary cylinder, having a pumping member working in said inner compression chamber, and having a head at its outer end, a piston in said piston cylinder, and means connecting said piston cylinder and said piston respectively to said shaft, for imparting rotation to said shaft by reciprocation in opposite directions, said stationary cylinder having transfer ducts, and said cylinders having ports controlled by movements of said piston cylinder and piston respectively, whereby while said piston cylinder is moving towards said shaft air is admitted to said inner compression chamber and combustible mixture is admitted to the outer compression

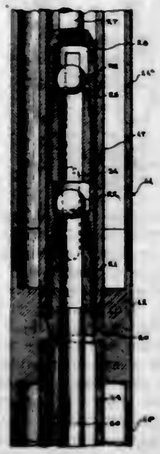
chamber, and while said piston cylinder is moving towards said outer compression chamber said mixture and said air are compressed, and ports are opened for exhaust from the space between said piston and the head of said piston cylinder, and the compressed air is admitted to said space, and then the compressed mixture is admitted to said space.

1,684,294. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES. WILLIAM H. BABCOCK, Groton, Conn. Filed June 16, 1927. Serial No. 199,336. 1 Claim. (Cl. 240—62.)



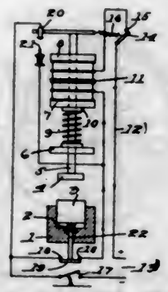
In a device of the class described, comprising in combination, the tie rod of an automobile, arms connected to the tie rod and having sockets therein, a bar having rack teeth, said bar having extensions carried thereby and engageable in the sockets of the arms, springs in the sockets engaged with the extensions, bolts carried by the extensions and slidably engaged with the arms, casings supported by the automobile, shafts rotatable in the casings and having spindles carried thereby which extend below the casings, gears fixed to the spindles, pedestals fixed to the upper ends of the shafts and rotatable therewith, headlights upon the pedestals, said gears being adapted to mesh with the rack teeth of the bar, whereby rotary movement is imparted to the shafts upon movement of the tie rod and bar.

1,684,295. COMBINATION WORKING BARREL AND SAND TRAP. ELTON L. BOYD and JAMES T. JOHNSON, Healdton, Okla. Filed Oct. 18, 1927. Serial No. 226,893. 5 Claims. (Cl. 103—179.)



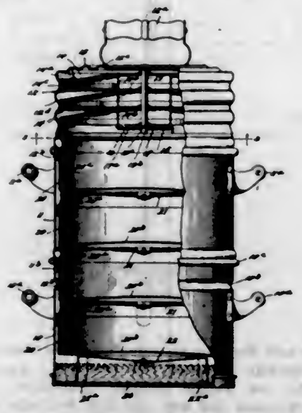
1. Apparatus for the purpose indicated comprising concentric tubular members of which the intervening space between the two constitutes a sand trap, a working valve operating in the inner tubular member, a bodily movable standing valve of which the body portion in one position closes openings of communication between said sand trap and the interior of the inner tubular member, and operative connections between the working valve and the body portion of the standing valve to effect movement of said body portion only when the stroke of the standing valve exceeds its normal stroke.

1,684,296. PRESSING OR PUNCHING MACHINE. GREGORY BRODSKY, Worcester, Mass. Filed Dec. 16, 1925. Serial No. 75,855. 5 Claims. (Cl. 192—134.)



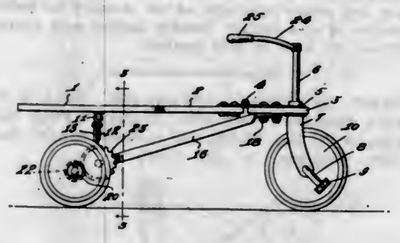
1. In a machine of the class described, a safety device comprising relatively movable members, one of which is yieldable with respect to the other, an electromagnet for causing one of said members to approach the other, means for energizing said magnet to cause the approach of said members, means for automatically deenergizing said magnet upon the depression of the yieldable member, and means for automatically reenergizing said magnet when said members reach a predetermined relative position.

1,684,297. COOKER. ELMER E. CARY, Hollywood, Calif. Filed Feb. 16, 1927. Serial No. 168,761. 10 Claims. (Cl. 53—2.)



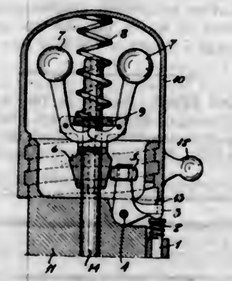
1. A steam cooking utensil including in combination, a boiler section, and a condenser section adapted to form a closure for the boiler, said condenser section comprising a casing, a plurality of separate and independent condenser plates arranged in said casing one above the other, a bracket secured beneath each of said plates and resting on top of the plate below, whereby the plates are spaced apart, a rod secured to said casing and extending downwardly through each of said plates and said brackets, and means for detachably securing said plates to said rod.

1,684,298. CHILD'S VEHICLE. ROBERT W. CASH, Hannibal, Mo. Filed June 20, 1927. Serial No. 200,110. 4 Claims. (Cl. 208—38.)



1. A child's vehicle of the character described comprising a platform including a body portion and a separate part which is hingedly secured to the body portion, steering means for said vehicle, a front wheel included in said steering means, a crank draft, means connecting said crank shaft to the body portion of the platform, rear wheels for said vehicle, and a gear connection between one of said rear wheels and said crank shaft.

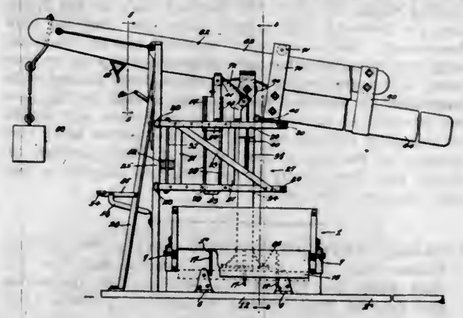
1,684,299. STARTING AND CONTROLLING DEVICE FOR INTERNAL-COMBUSTION MOTORS. BROR ALGOR DE WAERN, Stockholm, Sweden, assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden, a Corporation. Filed Dec. 18, 1924, Serial No. 756,851, and in Sweden May 13, 1924. 4 Claims. (Cl. 103—28.)



1. An arrangement in internal combustion motors for pumping fuel to effect starting and adjustment of the pump governor, including in combination, a support, a spring mounted pump plunger on said support, a stroke regulating member for the plunger, a spring controlled governor coacting with the regulating member and manually operable means arranged about the governor and adjustably engaged with the support so that when adjusted thereon it will actuate the regulating member and thereby the plunger and will in addition effect an adjustment of the spring controlled governor.

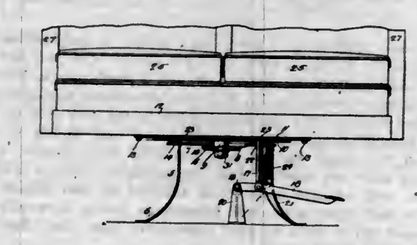
1,684,300. TOBACCO-BALING PRESS. ABE WEST, St. Cloud, Minn. Filed Jan. 8, 1927. Serial No. 159,860. 8 Claims. (Cl. 100—4.)

1. A baling press comprising a box, a carrier, means for supporting the carrier for movement into operative position over the box and into inoperative position laterally beyond the box, means for releasably securing the carrier in the first of said positions, a plunger mounted on the carrier, a plunger operating lever adapted when in



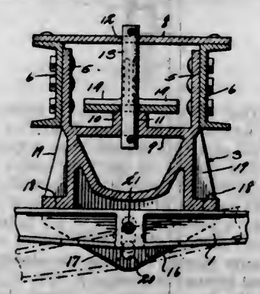
one position to render said means ineffective and means for moving the carrier into the second of said positions when said second means is rendered ineffective.

1,684,301. CAR SEAT. WALTER S. ADAMS, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1927. Serial No. 179,858. 2 Claims. (Cl. 155—96.)



1. The combination in a seat, of a pedestal having a slotted platform, said platform having an annular rail thereon; a seat plate mounted on the rail and having a depending pivot pin extending through the slot in the platform; a double-ended locking plate on the pivot pin; lugs on the underside of the platform between which either end of the locking plate is located when the seat structure is in its normal position; and means for locking the seat plate against lateral movement.

1,684,302. BOLSTER. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Oct. 25, 1927. Serial No. 228,675. 3 Claims. (Cl. 280—111.)



1. In an implement of the character described, frame bars, a front axle, and a bolster adapted to support the forward end of the frame bars upon and above said axle,

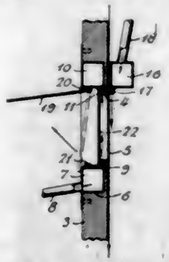
central aisle, an upper deck having a similar aisle, and said bolster being formed with a forwardly inclined face plate provided at its side portions with rearwardly extending wings to which the forward ends of the frame bars are fastened, said bolster being also provided with downwardly projecting skirt portions spaced longitudinally one from the other and embracing the axle between them, said skirt portions being respectively formed with longitudinally disposed slots, a pin carried by the axle and movable at its ends freely in said slots, and means for retaining said pin in said slots, the bolster being also provided at the ends of and joining the skirt portions together with downwardly facing shoulders adapted to rest upon the top of the axle.

1,684,303. AUTOMOTIVE BUS. RUFUS W. BAILEY, Kansas City, Mo. Original application filed Dec. 15, 1924, Serial No. 755,901. Divided and this application filed July 24, 1925. Serial No. 45,772. 1 Claim. (Cl. 296—28.)



A coach comprising a lower deck having a longitudinal central aisle, an upper deck having a similar aisle, an exit at the right rear of the lower deck, and a penthouse in continuous open communication with the lower deck, having its entrance substantially opposite and facing the deck exit, the floor thereof being raised, a penthouse exit facing the rear of the coach having a self-closing door therein, a winding staircase leading from the penthouse exit to said central aisle of said upper deck adapted to lead passengers to said upper deck, said passengers facing forwardly into said upper aisle as said passengers take their final step on said upper deck.

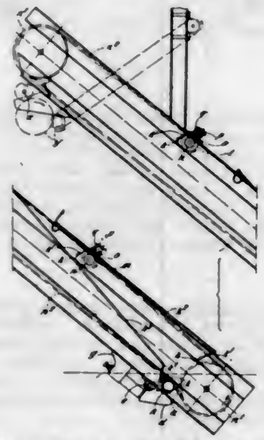
1,684,304. COOLING AND FIRE-PREVENTION APPARATUS FOR MOTION-PICTURE PROJECTORS. BORIS J. BERO, New York, N. Y. Filed Sept. 2, 1927. Serial No. 217,034. 4 Claims. (Cl. 88—17.)



1. In a motion picture projector, a device having an aperture past which a film passes, means on one side of said aperture for passing a current of air adjacent the film on the same side thereof as the light source of the projector, suction means for causing said current of air to pass over the entire surface of the film exposed to the light source, whereby a protective layer of air is interposed between the entire surface of the film exposed to the action of the light source thereby to reduce the absorption of heat by the film, and means for passing a current of air on the other side of the film whereby to remove heat absorbed by the film.

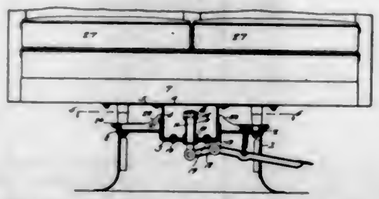
3. In a motion picture projector, a film trap having an aperture past which a film passes, means on one side of said aperture for blowing a current of air across said film, suction means for said current of air on the opposite side of said aperture, a shutter for said aperture movable by gravity to closing position, a transparent partition cooperating with said film to form a chamber for said passage of air, and means externally of the chamber for deflecting a portion of said current directly against said shutter to maintain the same in open position.

1,684,305. SCREENING APPARATUS. FRANCIS WHITWELL BRACKETT, Colchester, England. Filed May 1, 1926, Serial No. 106,058, and in Great Britain Dec. 28, 1925. 6 Claims. (Cl. 209—307.)



1. A screen of the kind described comprising a lower grooved drum, an upper grooved drum, a continuous rope wound in the grooves of the two drums and at least one guide roller having peripheral grooves alternately of different depth and of which the shallow grooves are each adapted to engage a length of the said rope.

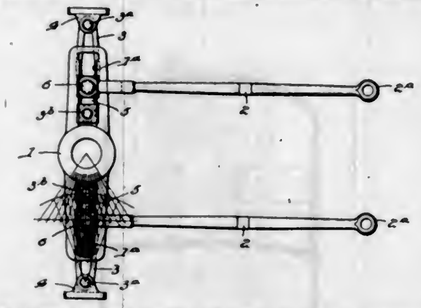
1,684,306. CAR SEAT, JAMES A. BROOKS, Kirklyn, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1927. Serial No. 179,857. 5 Claims. (Cl. 155—96.)



1. The combination in a car seat, of a pedestal; a platform secured thereto and having a depressed portion forming a centre bearing and having an annular rail depressed at certain points; a centre plate having a portion extending into the centre bearing and resting thereon; legs on the centre bearing arranged to travel on the annular rail and to normally rest in the depressed portions; means for raising the centre plate to allow it to be turned; and a seat structure secured to the centre plate.

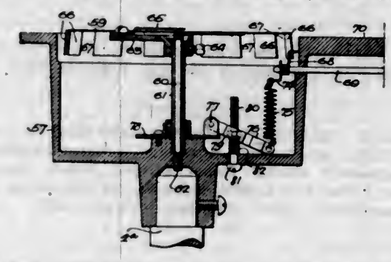
1,684,307. SHIP'S STEERING GEAR. ANDREW MAURICE BUTTERFIELD, Bath, Me. Filed Jan. 30, 1928. Serial No. 250,620. 4 Claims. (Cl. 114—144.)

3. The combination, with a rudder post, of a horizontal arm carried thereby having a lengthwise guideway, a member slidable in said guideway, a link disposed parallel to said arm when the parts are in neutral position and having its outer end articulated to a fixed pivot beyond the end of said arm, and its inner end articulated to the inner end



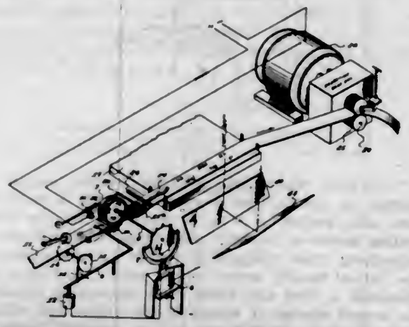
of said member, and a push and pull rod pivotally connected to said member between its point of pivotal connection to the link and the fixed pivot of the link.

1,684,308. STOP MOTION FOR KNITTING MACHINES. FRANK CRAWFORD, Sr., New Brunswick, N. J., assignor to The Crawford Manufacturing Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Dec. 7, 1923. Serial No. 679,185. 7 Claims. (Cl. 66—160.)



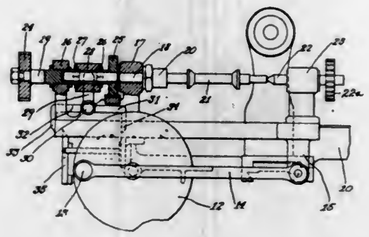
1. The combination in a stop motion, of a casing; arms radiating from the casing; a rod carried by each arm, each rod having a finger at the outer end over which the thread passes; an arm at the inner end of each rod; trip mechanism common to all of the rods and adapted to be directly operated by any one thereof; and means for independently adjusting the tension of each rod.

1,684,309. METHOD OF AND MEANS FOR FEEDING TAPE AND PROJECTING DATA THEREFROM. ROBERT F. DIEKES, Jamaica, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Apr. 28, 1926. Serial No. 105,333. 59 Claims. (Cl. 88—24.)



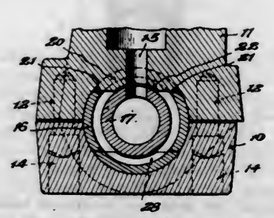
7. In combination, a recording device adapted to eject a tape therefrom with an intermittent motion, a support, means to feed said tape across said support with a continuous motion, and means starting and stopping said continuous feed with a gradual acceleration and gradual retardation.

1,684,310. MACHINE FOR FORMING HELICAL CHANNELS. WILLIAM EISENBERG, Evansville, Ind. Filed June 28, 1927. Serial No. 202,065. 2 Claims. (Cl. 90—29.)



1. A machine for cutting helical channels comprising a reciprocating table, means for reciprocating said table, a rotatable turn table beside the first-named table extending angularly to the path of travel of the turn table, said turn table being mounted stationary, a dove-tailed rail on said turntable, a carriage slidable on said rail, said carriage being movable with the table, a spindle on said first-named table, a split cane rotatably mounted loosely on said spindle, a gear rigid with the cone, said gear being adapted to be releasably locked to said spindle at intervals, a collar engaging said gear for locking the latter to the spindle, and means pivotally connected to said carriage for rotating the spindle a part of a revolution when said carriage and table is simultaneously reciprocated.

1,684,311. LOCK HOUSING. CHARLES N. FAIRCHILD, Milford, Conn., assignor to Fairchild Lock Corporation, New York, N. Y., a Corporation of Delaware. Filed July 27, 1925. Serial No. 46,369. 8 Claims. (Cl. 70—90.)

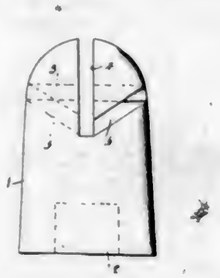


7. A lock housing recessed to receive a cylindrical steering post and having a bore to receive a bolt adapted to lock the steering tube to the casing, characterized by the provision of a transverse guide integral with the housing, extending laterally through the steering post casing, surrounding the bolt to support the bolt between the tube and casing, said guide transmitting side thrusts from the end of the locking bolt direct to the side walls of the lock housing.

1,684,312. ELECTRICAL INSULATOR. JOHN J. FISCHER, Marion, Ind., and WARREN R. PAYNE, Denoya, Okla. Filed Jan. 19, 1926. Serial No. 82,310. 1 Claim. (Cl. 173—316.)

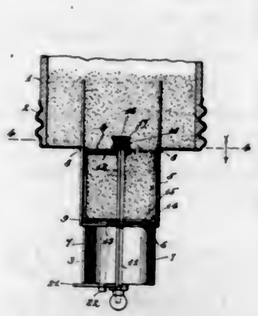
An insulator having a diametrical wire receiving opening, an axial slot arranged at right angles to the opening and

extending out through opposite sides of the insulator, said slot extending from the outer end of the insulator to a point inwardly beyond the opening, and slots arranged at



opposite sides of the first named slot and extending inwardly and laterally in opposite directions from the ends of said opening to the inner ends of the slot.

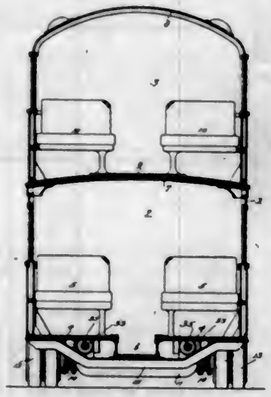
1,684,313. MEASURING AND DISPENSING DEVICE. RONALD V. GRAHAM, Yonkers, N. Y. Filed Mar. 8, 1927. Serial No. 173,698. 3 Claims. (Cl. 221—113.)



1. A device of the character described, including a casing having an opening in its bottom and having longitudinal slots in the side wall thereof, a U-frame having extensions thereon mounted to move in the slots and having longitudinal side members covering the slots, a partition supported by and movable with said frame having an opening therein, a shaft mounted centrally in the casing, shutters on said shaft oppositely disposed and alternately controlling said openings, and means for turning the shaft.

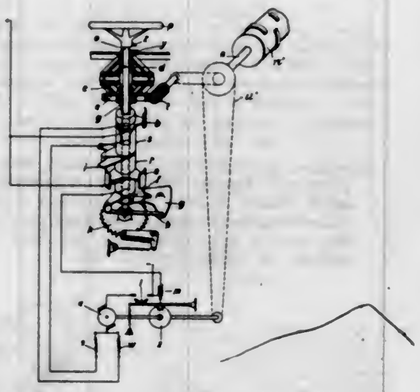
1,684,314. DRIVING MECHANISM FOR VEHICLES. CHARLES O. GUERNSEY, Philadelphia, Pa. Original application filed Nov. 3, 1924, Serial No. 747,645. Divided and this application filed Mar. 3, 1927. Serial No. 172,362. 4 Claims. (Cl. 180—57.)

1. The combination in a vehicle, of a body portion having a floor; spaced seat structures mounted on the floor at each side of the car; a depressed longitudinal aisle in the floor and between the seats; a depressed axle extending under the depressed aisle; and driving mechanism disposed on each side of said aisle and connected to said



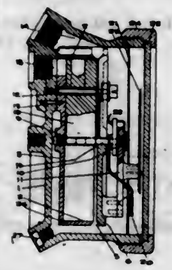
axle, said mechanism being positioned above the floor of said aisle and beneath the seat structure body portion.

1,684,315. ELECTRIC CONTROL APPARATUS. ARNOLD HALLER, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Filed Jan. 3, 1928, Serial No. 244,328, and in Germany, Dec. 11, 1926. 2 Claims. (Cl. 172—239.)



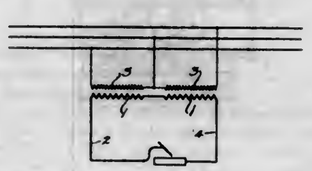
1. Electric control apparatus for traction motors comprising, in combination, a control handle, a motor-operated main switching drum, a control switch for the operating motor of the said main drum, a differential gear comprising three systems of wheels and interconnecting the control handle, motor control switch, and main drum aforesaid, a fork and roller lever mechanism connecting the second system of wheels of the differential with the motor control switch, and a slack coupling device connecting the aforesaid control switch with the field reversing switch of the motor operating the main drum.

1,684,316. FLUID-FLOW METER. WILLIAM WILSON HAMILL, Birmingham, England. Filed Oct. 12, 1922, Serial No. 594,205, and in Great Britain Oct. 28, 1921. 3 Claims. (Cl. 73—167.)



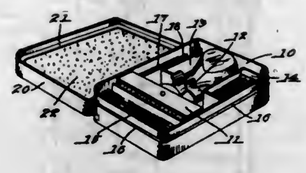
1. A flow meter, comprising a substantially cylindrical casing having a wall at its rear end and its forward end open and provided with an outlet at its upper portion, a substantially cylindrical member of smaller external contour than the interior of said casing, said cylindrical member having its rear end closed and its forward end open, the rear end of said member being detachably secured to the rear wall of said casing in substantially concentric relation with the latter, a cover plate for the forward end of said member, spaced from the latter to afford a passage for fluid from said member to the space between said member and the interior of said casing, said member and cover forming a supply chamber, a spindle extending through said cover and having its rear end journalled in the rear end of said member at approximately the center of said rear end, a journal for the forward end of said spindle carried by said cover, a vane in said supply chamber secured to said spindle, said vane being throughout its length of substantially the same width as the depth of said supply chamber and subject throughout its extent to the flow of fluid through said supply chamber, a partition extending from the axis of said supply chamber to the side wall of the latter, said vane in its normal position being in close proximity to said partition, said casing having an inlet opening and said cylindrical member having an inlet opening registering with that of the casing for admitting fluid into said chamber between said partition and said vane, means for returning said vane to normal position, a dial and a pointer associated with the front face of said cover and said vane, said dial and pointer being relatively movable during the movement of said vane, and transparent means detachably closing the forward end of said casing.

1,684,317. ARC WELDING SYSTEM. JOHANNES FRANS KAREL HARMS, Amsterdam, Netherlands, assignor to Jonkheer Meester Doctor Jelle Roelof Clifford Kocq van Breugel, Driebergen, Netherlands. Filed Feb. 24, 1927, Serial No. 170,584, and in the Netherlands, Feb. 11, 1927. 3 Claims. (Cl. 219—8.)



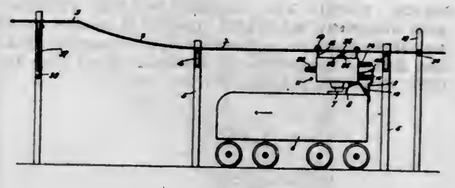
1. An alternating current arc welding apparatus, comprising a plurality of transformers, each of said transformers having a primary winding and a secondary winding, said primary winding of each transformer being adapted to be connected across each phase of a poly phase alternating current source of supply, said secondary windings being in series with each other, and a work circuit connected to said secondary windings.

1,684,318. STAMP BOX. CARL C. HARRIS, Orange, Mass. Filed June 18, 1926. Serial No. 116,998. 4 Claims. (Cl. 91—54.5.)



1. As an article of manufacture, a stamp box comprising a box proper having a cover of a different depth pivoted thereto on a horizontal axis and reaching down when open to the bottom of the box, whereby the cover and box will rest on the same horizontal surface when open, and a stamp pad located in the cover, the cover overlapping the top of the box part way down when closed.

1,684,319. LOCOMOTIVE-TENDER-TANK FEEDER. SIMON HEIDEN, Detroit, Mich. Filed Mar. 22, 1927. Serial No. 177,443. 2 Claims. (Cl. 214—43.)

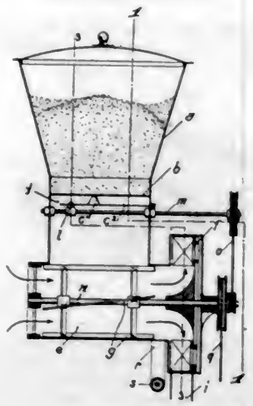


1. In a structure of the class described, a suspension rail, a water supply pipe located alongside of the rail and having a control valve, operating means for said control valve including an extension, a storage tank supported from said rail and movable along the rail, a float in said tank, a stem carried by said float, and curved fingers extending at right angles from said stem and adapted for cooperation with the extension on the operating means for said valve.

1,684,320. APPARATUS FOR FEEDING POWDERED FUEL TO A FURNACE. EWALD HERMSDORF, Brunswick, Germany. Filed Oct. 11, 1924. Serial No. 743,125, and in Germany Oct. 17, 1923. 3 Claims. (Cl. 302—37.)

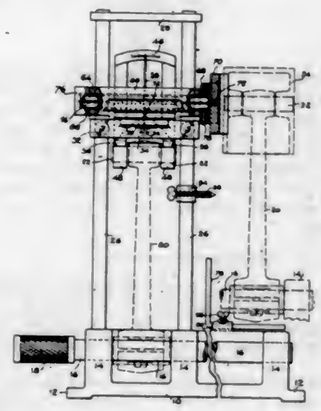
1. An apparatus for supplying powdered fuel to a furnace, comprising a cylindrical horizontal conduit having its discharge end adapted to be connected with the furnace, means for supplying powdered fuel to said conduit throughout the length thereof and at a right-angle to the axis of said conduit, a rotary shaft extending through the conduit and having a fan mounted thereon for producing a current of air lengthwise of and through the conduit and at a right-angle to the axis of the conduit toward the furnace, and wings supported by said shaft at a distance therefrom and extending throughout the length of

the conduit, the outer edges of said wings moving in proximity to the inner wall of said conduit and forming helices for mixing the air passing through the conduit parallel to the axis of the conduit with the powdered fuel supplied to said conduit in a direction transversely of the



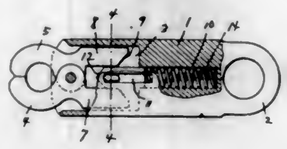
air current, the wings raising into said current of air the particles of fuel from the lower portion of the conduit and at the same time moving the heavier particles of fuel in the direction of the air current toward the discharge end of the conduit.

1,684,321. PISTON AND CONNECTING ROD TESTING AND ALIGNING MACHINE. GEORGE E. HOLTON, Jackson, Mich., assignor to Hinckley-Myers Company, Jackson, Mich., a Corporation of Michigan. Filed June 14, 1926. Serial No. 115,854. (Cl. 33—180.)



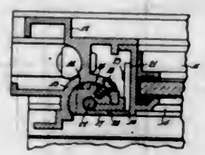
1. In a connecting rod testing and aligning machine, a support for the bearing at one end of the rod a pair of indicating devices, means supporting said indicating devices in operative position with respect to said support, said indicating devices adapted to individually contact the wrist pin of a rod mounted upon said support, each indicating device being angularly adjustable upon said supporting means with respect to the axis of said support and with respect to the other device.

1,684,322. SNAP HOOK. MARTIN ITJEN, Skagway, Territory of Alaska. Filed Apr. 11, 1928. Serial No. 269,160. 1 claim. (Cl. 24—238.)



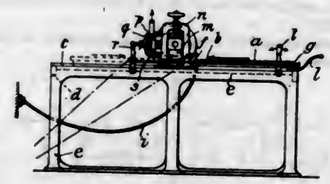
In a snap hook, a solid body formed at its rear end with an attaching eye, the forward end of the body being formed with a rearwardly extending socket that terminates at the intermediate portion of the body, a pair of complementary jaw members pivotally secured at their inner ends in the outer end portion of the socket, said jaws projecting beyond the forward end of the body, an inwardly extending leg formed on the inner end of each jaw, the inner end of each leg being bevelled, a plunger slidable in the rear portion of the socket, the solid body being provided with a longitudinally extending cavity in the rear portion thereof which communicates with the rear end of the socket, said plunger being also slidable in the cavity, the forward edge of the plunger being bevelled to cooperate with the bevelled inner ends of the legs, a reduced pin formed on the rear end of the plunger and disposed within said cavity, expansible coil spring arranged within the cavity, the rear end of said spring engaging the rear end of the cavity, the forward end of said spring encircling the reduced pins and engaging the rear end of the plunger for normally urging the same forwardly into the socket for disposition between the legs to maintain the jaws in a closed position, said body being formed with a slot in one side for communication with the cavity and the socket, and a handle forming member carried by the sliding plunger and projecting through said slot to facilitate the manual rearward movement of the plunger in said cavity and out of engagement from between said legs whereby the jaws are disposed in such a position as to be capable of separation.

1,684,323. WEATHERPROOF CONCEALED HINGE AND JAMB CONSTRUCTION. JERRY KUBELKA, Ridgewood, N. Y. Filed Dec. 19, 1927. Serial No. 241,116. 6 Claims. (Cl. 189—69.)



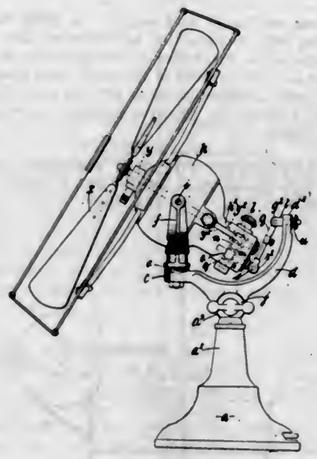
1. A casement and closure hinge construction, comprising pintles fastened to the closure, and a part fastened to the casement in which the pintles turn, the pintles being enclosed by portions respectively on the casement and closure.

1,684,324. REGISTER SHEET FOR PRINTING PRESSES AND THE LIKE. CARL LINGNER, Dessau in Anhalt, Germany, assignor to Hofbuchdruckerei von C. Dunnhaupt G. m. b. H., Dessau, Germany. Filed May 16, 1927, Serial No. 191,839, and in Germany Nov. 24, 1925. 5 Claims. (Cl. 41—25.5.)



5. A method of preparing register-sheets for printing presses and the like, consisting in making an impression in the press, which is as sharp as possible and has much shading, on a sheet of paper containing a magnetizable substance, such as iron or nickel dust, stretching the sheet face down on a magnetic flat plate, grinding off the raised places on the back of the sheet by means of a rotating roller, and thereupon treating the weak places by spraying on an adhesive and hardening the same, as and for the purpose set forth.

1,684,325. AUTOMATICALLY-OSCILLATING ELECTRIC FAN. JAMES FRASER LISTER and HORACE WILL SMALLWOOD, Birmingham, England. Filed May 20, 1927, Serial No. 192,985, and in Great Britain June 7, 1926. 2 Claims. (Cl. 230—273.)



1. A support comprising a pedestal, a member mounted on said pedestal and having a pair of arms one of which extends laterally from said pedestal, a second member mounted to oscillate on said laterally extending arm on an axis in a plane common to said arms and said pedestal, said second member having a pair of arms between which a casing may be mounted to rock on an axis at substantially a right angle to the axis of oscillation of said second member, the other of said first-mentioned arms having means for connection thereto of means for rocking a casing mounted between the arms of said second member and for oscillating said second member on its axis.

1,684,326. SKI HANDLE. ANDREW E. MARTINSON, New York, N. Y. Filed Dec. 10, 1927. Serial No. 239,193. 4 Claims. (Cl. 208—184.)

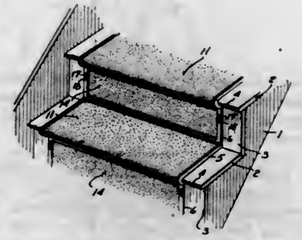


1. A ski provided with a body, a foot clamping strap connected with said body intermediate the ends, and a substantially arc-shaped handle carried by said body but looped over said strap, said handle being of a height to be grasped by the hands of the person using the ski.

1,684,327. VAT DYESTUFF FROM DIANTHRAQUINONYLAMINE-PHENANTHRENEQUINONE. WALTER MIEG and ALBERT JOB, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 28, 1926, Serial No. 119,197, and in Germany June 25, 1925. 7 Claims. (Cl. 260—46.)

1. In processes of making carbazolated dianthraquinonylamino-phenanthrenequinonylenes the step comprising treating dianthraquinonylamino-phenanthrenequinonylenes with carbazol ring forming condensing agents.

1,684,328. STAIR-COVERING APPARATUS. CHARLES M. MOLINELLI, New York, N. Y. Filed May 9, 1928. Serial No. 276,380. 1 Claim. (Cl. 20—79.)

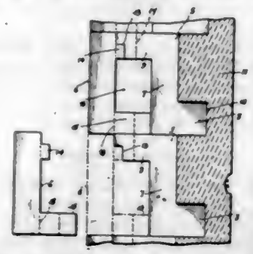


A device of the character described, including a rectangular frame adapted to be positioned on the tread of a stairway, said frame having its forward portion curved rearwardly and adapted to project over and under the nose of the tread, the members of said frame having grooves in their inner faces, floor covering sections having beads thereon movable in said grooves, frames adapted to be positioned against the risers of the stairway, floor covering sections supported by said last mentioned frames, and movable pins mounted in the riser frames nad adapted to be forced upwardly under the nose portions of the tread.

1,684,329. AIR-COOLED BLOCK FOR LINING WALLS. GUSTAV RAU, Kansas City, Mo. Filed Apr. 29, 1926. Serial No. 105,434. 1 Claim. (Cl. 72—41.)

Air cooled blocks for service as components of a lining or belt for and combined with a furnace wall, each block comprising a vertical body member with an upper terminal inwardly projecting extension and a lower terminal outwardly projecting extension, both extensions being at planes at right angles to the vertical body member, and the upper extension having a lower angular inwardly opening corner recess continuing fully over the width of the extension, and a removable and replaceable nose member having a vertical body and a lower outwardly projecting extension which terminally abuts against the inner side

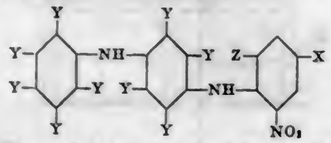
of the lower portion of the vertical body of the first named member with the bottom thereof flush with the bottom of the said outward extension of first named member, the upper terminal of the body of the nose member having a flange fitting in and flush with the recess of the inner terminal of the upper inwardly projecting extension of said first named member, the upper inwardly projecting extension of the first named member and the lower outwardly



projecting extension of the nose forming a central flue continuing uniformly transversely through the complete block, and the upper inwardly projecting extension of the first named member and the outwardly projecting extension of the nose respectively having a pair of spaced vertical flues opening in to said central flue, whereby when a number of the complete blocks are assembled the said vertical flues become continuous through all the blocks and communicate with the horizontal flues of the blocks.

1,684,330. WATER-SOLUBLE DYESTUFF AND PROCESS OF PRODUCING SAME. OTTO SIEBERT, Dessau, KARL THIESS, Hochst-on-the-Main, BERNHARD SCHÖNER, Wolfen, near Bitterfeld, ROBERT SCHMIDLIN, Hochst-on-the-Main, WALTHER BENADE, Dessau, and BERNHARD DEICKE, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 17, 1926, Serial No. 116,706, and in Germany May 5, 1923. 6 Claims. (Cl. 260—129.)

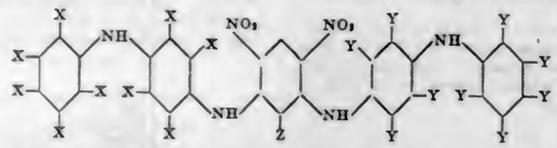
1. As new products water-soluble dyestuffs of the general formula:



wherein X represents hydrogen or the sulfonic acid group, Z hydrogen or the nitro group, and Y the hydrogen-, nitro-, alkyl-, or sulfonic acid group.

1,684,331. POLYARYLAMINE DYESTUFF AND PROCESS OF PRODUCING THE SAME. KARL THIESS, BERNHARD DEICKE, and ROBERT SCHMIDLIN, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed May 10, 1926, Serial No. 108,111, and in Germany May 22, 1925. 8 Claims. (Cl. 260—128.)

7. As new products, dyestuffs of the general formula:

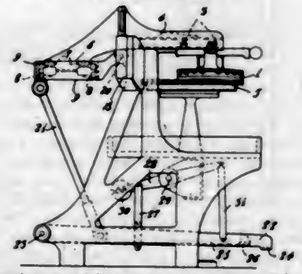


wherein at least one symmetrical X—Y pair represents sulfonic acid groups, the other symmetrical X—Y pairs represent hydrogen or a monovalent substituent and Z represents hydrogen or methyl.

1,684,332. METHOD OF PRODUCING GLASS. MAX THOMAS, Weisswasser, Oberlausitz, Germany, assignor to Patent-Treuhand-Gesellschaft für Elektrische Gluhlampen m. b. H., Berlin, Germany. Filed June 26, 1926, Serial No. 118,796, and in Germany Aug. 1, 1925. 4 Claims. (Cl. 106—12.)

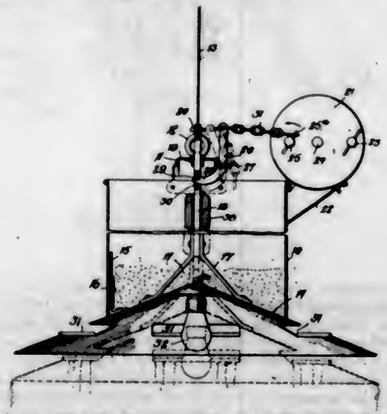
1. The process of producing a glass for insulating purposes, which comprises melting a glass batch substantially free of alkali metal and containing silica, an alkali earth metal oxide and an iron oxide sufficient to act as a flux, and maintaining the oxide in its oxidized condition.

1,684,333. IRONING MACHINE. HERMANUS FRANCISCUS TOL, The Hague, Netherlands, assignor to Naamlooze Vennootschap: machinefabriek "Reinveld," Delft, Netherlands, a Corporation of Netherlands. Filed Feb. 10, 1927, Serial No. 167,246, and in the Netherlands July 21, 1926. 5 Claims. (Cl. 68—9.)



1. An ironing machine comprising a stationary table; a reciprocatory iron-support; a mechanism for imparting a reciprocating motion to said support; a guide member parallel to the table along which said support may travel pivotally mounted in the frame of the machine so as to swing around an axis parallel to the table; and means for moving said guide member so as to lift the iron from the table and to control the effective pressure between the iron and the table.

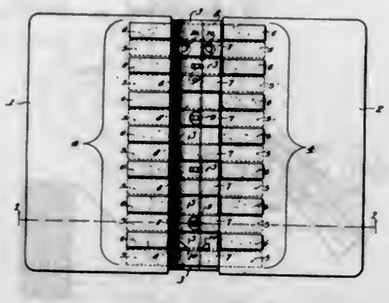
1,684,334. AUTOMATIC POULTRY FEEDER. ROBERT F. TOOPE, New Haven, Conn. Filed Apr. 7, 1927. Serial No. 181,757. 1 Claim. (Cl. 161—10.)



In a poultry feeder comprising a cylindrical feed hopper, a movable conical bottom therefor consituting a distributor plate for the fed, a bracket secured to the inner face of the bottom adjacent the apex thereof; a rod rigidly connected with the upper end of the bracket, a cross bar at the upper end of the hopper and provided with a

sleeved central opening through which said rod is adapted to have a limited sliding movement, said rod having a slot therethrough below said cross bar, a time-controlled lever detent normally positioned in said slot for holding the rod in elevated position to maintain the bottom in closed position, a lamp switch supported on the hopper from the cross-bar, a weight slidably mounted on said rod, a lamp suspended beneath the center of the conical bottom plate, an ear projecting from the aforesaid weight, a pull chain connecting said ear with the said lamp switch, said weight held in inactive position by said bracket and adapted to light said lamp through said switch upon release of the rod by the said time-controlled detent.

1,684,335. COVER FOR BOOKS, BINDERS, AND THE LIKE. PAUL O. UNGER, Syracuse, N. Y., assignor to McMillan Book Company, Syracuse, N. Y., a Corporation of New York. Filed Dec. 13, 1924. Serial No. 755,734. 10 Claims. (Cl. 281—29.)



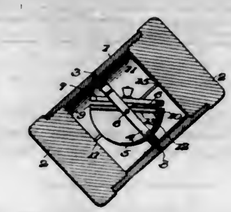
1. A cover for books and binders, comprising a back member; two cover-boards; and hinges connecting said cover-boards and back member, said hinges being formed of flexible material having a series of separated bands passing across the outer face of the back member in a direction transverse thereto and a second series of bands similarly passing across the inner face of said back member, the portions of the flexible material lying beyond the longitudinal boundaries of the back member being secured to the cover-boards in any convenient manner.

1,684,336. MEDICINAL SOAP. HANS HOFFMÜLLER VON KORNATZKI, Ziegenhagen, Post Reetz, Germany. Filed Aug. 7, 1926, Serial No. 127,971, and in Germany Aug. 26, 1925. 1 Claim. (Cl. 87—16.)

A soap for therapeutic purposes consisting of 6 parts by weight of a soap mixture obtained from fatty oils and caustic soda, one part of 95% alcohol, 1 part of freshly prepared rectified amber oil, and 0.2 part succinic acid.

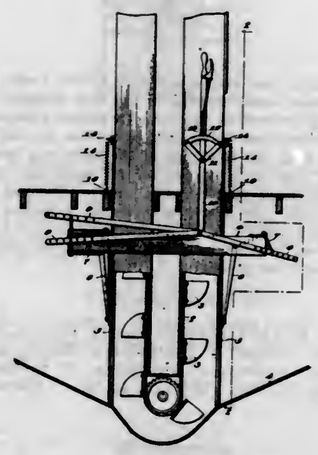
1,684,337. INSTRUMENT FOR SURVEYING BORE HOLES. LAWRENCE BOYNTON WRIGHT, ARTHUR BRAKLEY YATES, and ART AMMON LEASE, Lead, S. Dak. Filed June 25, 1925. Serial No. 39,608. 4 Claims. (Cl. 234—1.)

2. In an instrument of the character described, a casing, a body having a face, a magnetic needle pivoted on the face of the body, means for suspending the body in the casing so that the face is maintained in a horizontal position irrespective of the inclination of the casing, a film mounted on the face of the body, means for impressing on the film the representation of a needle and comprising a radioactive substance applied to the underside of the needle, a film arranged within the casing, said



body having an angular groove, radioactive substance in the groove of the body for impressing upon the film a representation indicative of the relative position of the body to the casing, and means for orienting the films.

1,684,338. GRAIN-BIN FEED. OLE F. APLIN, Culbertson, Mont. Filed Feb. 26, 1927. Serial No. 171,319. 3 Claims. (Cl. 198—207.)

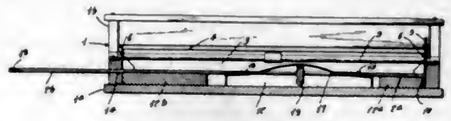


1. In combination a pair of parallel grain elevator legs each of which having a vertically movable slide, crank shafts journalled adjacent each leg, each of which have operative connection with one of the slides, a manually adjustable lever, and longitudinally shiftabl elevers connected with the manually adjustable lever and having operative connection with the crank shafts whereby to actuate the slides upon movement of the manually actuated lever.

1,684,339. PEDOGRAPH AND METATARSAL-PAD LOCATOR. JOSEPH L. BARTH, Bismarck, N. Dak. Filed July 22, 1926. Serial No. 124,229. 5 Claims. (Cl. 282—1.)

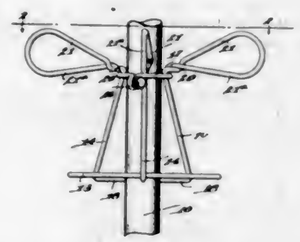
1. A device of the character set forth, including a plate upon which the foot is adapted to be placed and embodying

sections adjustable relatively to provide an opening in the plate in registration with the arch of the foot, a



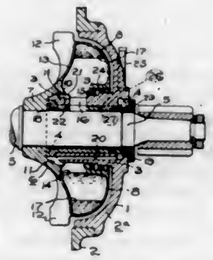
flexible plate located below said first plate, and means for bowing the flexible plate upwardly through the opening and into contact with the arch of the foot.

1,684,340. DISPLAY STAND. RAYMOND O. BERKE, Albuquerque, N. Mex. Filed Apr. 17, 1928. Serial No. 270,734. 4 Claims. (Cl. 211—112.)



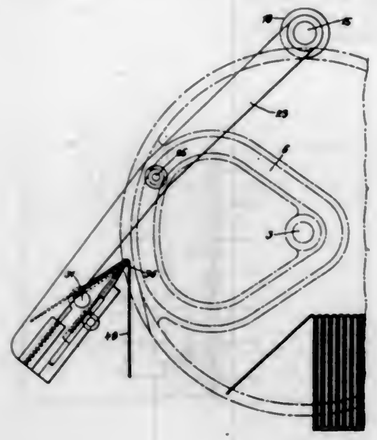
3. A display rack unit comprising a wire frame having a base member, arms secured to the base member, a supporting ring secured to the arms in spaced relation with the base member and being split to provide for the expansion of the ring, the free ends of the split ring being provided with eyes in close contact for clamping the split ring on the fixed support, and article clamping means extending from the arms, said article clamping means forming continuation of the upper end of an arm and having a rear portion provided with a hook adapted to engage around the extension.

1,684,341. ROTARY OILER. CLAUDE BETHEL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 24, 1925. Serial No. 45,748. 8 Claims. (Cl. 308—117.)



8. The combination with a stationary bearing, of a rotary oiler therefor comprising a rotating part having an oil-storing chamber, said chamber being sufficiently large to hold all of the oil, without overflowing, at standstill, said oil being thrown to the outer portion of said chamber by centrifugal force during rotation, means for supplying oil from said chamber to said bearing, and means for passing all or a part of the oil drained from said bearing back into said bearing without first being returned to the main body of lubricating oil in the outer portion of said chamber.

1,684,342. SADDLE FOR THE TABLES OF THREAD-STITCHING MACHINES. ULRICH BISCHOF, Horgen, Switzerland, assignor, by mesne assignments, to Smyth Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 7, 1925, Serial No. 13,809, and in Switzerland Nov. 20, 1924. 5 Claims. (Cl. 112—21.)



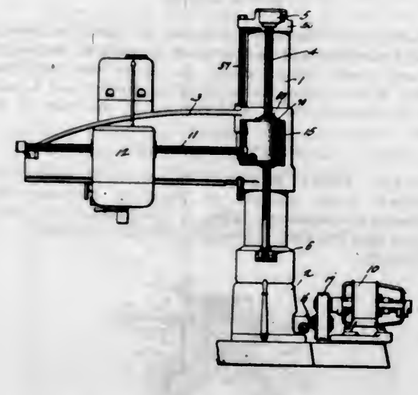
1. A table-saddle for thread-bookstitching machines, including a single plate having a wedge shaped upper supporting edge of about 35° and provided with grooves for housing puncturing needles and with a sloping surface below the supporting edge on the side having the said grooves to lead away the thread loops outwardly to prevent pinching in of the thread loops, the said table-saddle being carried by swinging arms fixed to a horizontal shaft located over the saddle.

1,684,343. IGNITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES. MICHELANGELO MARIA CARBELLINO, Turin, Italy. Filed June 28, 1927, Serial No. 202,029, and in Great Britain July 21, 1926. 2 Claims. (Cl. 171—252.)



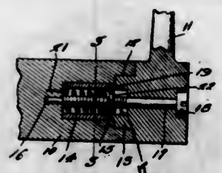
1. A multi-polar ignition magneto for internal combustion engines comprising a rotor having a laminated iron core, a single winding on the core forming a coil, laminated pole shoes on the ends of the core having a number of teeth equal to half the number of sparks to be produced at each revolution, and laminated bars of the same length as the rotor arranged between each two teeth and constituting a cylindrical cage for the coil whereby the flux alternately closes within and without the coil, always in the same direction through the magnet.

1,684,344. TRANSMISSION FOR RADIAL DRILL ARMS, ELEVATING MECHANISM, AND DRILL SPINDLES. JACK C. CARLTON, Cincinnati, Ohio, assignor to The Carlton Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 9, 1926. Serial No. 80,318. 9 Claims. (Cl. 77—28.)



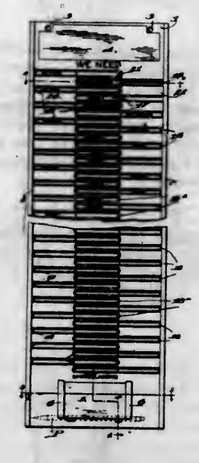
2. A radial drill including a column, an arm translatable on the column, a transmission casing upon the arm having two meshed bevel gears independently journalled therein adapted for connection respectively with a column shaft, and an arm shaft, arm raising mechanism connected with one of the gears, said casing having openings in its walls one in axial alignment with and in opposition to each gear for permitting a corresponding shaft to traverse the casing and be connected with or disconnected from a corresponding gear, to alternately constitute either gear a driver.

1,684,345. SAFETY APPLIANCE FOR TOOLS. MELCHOR CENTENO V., Chicago, Ill. Filed June 13, 1925. Serial No. 36,894. 1 Claim. (Cl. 145—50.)



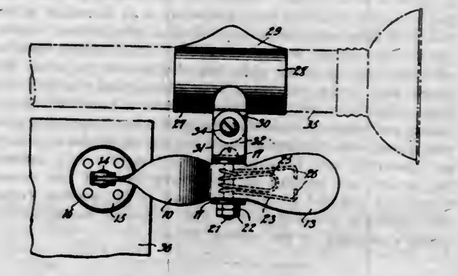
In a tool, the combination of a pair of rotatable parts, one of said parts having a recess therein, co-acting teeth on said parts, a shaft freely extending through one of said parts and journalled in the other of said parts, a head provided on the outer end of said shaft and counter-sunk in said first mentioned part, said head having a kerf therein, screw threads provided on said shaft for a portion of its length, a collar co-acting with said screw threads and disposed within said recess, and a contractile spring encircling said shaft, one end of said spring being fixed to the end wall of said recess and the other end fixed to said collar whereby rotation of said shaft will cause said collar to be adjusted longitudinally thereon to regulate the tension of said spring to hold the co-acting teeth in engagement against a predetermined turning force when applied to either of said parts.

1,684,346. INDICATOR OR PROMPTER FOR HOUSEHOLD OR OTHER PURPOSES. JOSEPH DE BRACHT, Altoona, Pa., assignor of one-half to Paul Epright, Altoona, Pa. Filed Jan. 10, 1928. Serial No. 245,768. 3 Claims. (Cl. 116—135.)



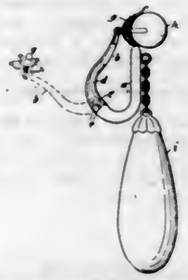
1. A device of the class described comprising a base having a plurality of guides, said guides extending alternately in opposite directions and having a portion thereof arranged parallel and one above the other, indicia carrying slides mounted to travel in said guides, and means for manipulating said slides.

1,684,347. HOLDER. ADNA S. DOBBS, New Brunswick, N. J. Filed Apr. 9, 1927. Serial No. 182,487. 3 Claims. (Cl. 248—20.)



1. A holder comprising a pair of spring actuated clamping members, a pivot connecting said clamping members together for coaction, a clamp, and means between the pivot and the clamp allowing the clamp to have universal movement.

1,684,348. EARRING WITH CLAMPING BOW. HEINRICH FETZER, Pforzheim, Germany. Filed Feb. 2, 1927, Serial No. 165,388, and in Germany May 1, 1926. 1 Claim. (Cl. 63—14.)



A clamping earring, comprising in combination, a clamping bow composed of a stationary element and of a movable element, a spring-controlled hinge connecting said movable bow element to the said stationary bow element, a clamping plate rigidly fixed on the free end of said stationary bow element, a rivet in the free end of said movable bow element, and a cup-shaped clamping plate loosely mounted on said rivet.

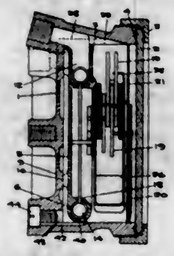
1,684,349. WINDOW SCREEN. ERNEST P. GARNER, Charlotte, N. C. Filed Jan. 22, 1926. Serial No. 83,120. 1 Claim. (Cl. 156—14.)



The combination in a window screen, adapted to extend full length of the outer side of a window frame and be movably suspended at its upper extremity from the frame, a wood screen frame covered on the outside with wire gauze which is drawn taut and secured at its edges to the wood of the screen frame to effect a longitudinal curvature of the latter frame, channeled metal strips fixed in all directions over the side, top and bottom edges of the gauze, said strips extending over and beyond the side and upper edge of and applied to the outer side of the screen frame and adapted to cover the joints between the screen frame and window frame when the screen frame is closed, an upwardly and forwardly inclined metal strip extending below and secured to the lower edge of the screen frame and adapted to engage the sill of the window frame and having a yielding action, and fastening means at the lower extremity of the screen frame.

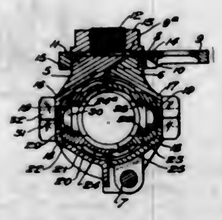
1,684,350. ROTARY-TYPE FLOW METER. WILLIAM WILSON HAMILL, Birmingham, England. Filed Oct. 12, 1922, Serial No. 594,204, and in Great Britain Oct. 26, 1921. 5 Claims. (Cl. 73—37.)

1. Apparatus of the character described, comprising a casing, a pair of separate circular, channelled members, secured together in said casing with their channels in opposed relation and their inner perimeters spaced apart, and together forming a continuous curved fluid channel, said casing having an inlet and an outlet communicating with said channel, said outlet being above said inlet and connected to said channel at one side of the latter, a rotor



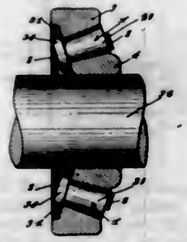
extending into the space between the inner perimeters of said members and having vanes movable in said channel and closely fitting within the latter, and indicating means in said casing actuated by said rotor and located on the opposite side of said channel to the inlet of the latter.

1,684,351. DRILL BOXING. LESTER C. HARDSOCG, Ottumwa, Iowa, assignor to Hardsocg Manufacturing Company, Ottumwa, Iowa, a Corporation of Iowa. Filed May 18, 1925. Serial No. 31,196. 4 Claims. (Cl. 255—46.)



1. In a drill boxing of the class specified, the combination with hinged casing sections, of linings having inner screw-threaded sides disposed within the casing sections, and removable fastening means inserted through the centers of the linings and casing sections, the outer sides of the linings and the inner portions of the casing sections having interfitting structural features through which the fastening means extend to prevent longitudinal shifting movement of the linings relatively to the casing sections.
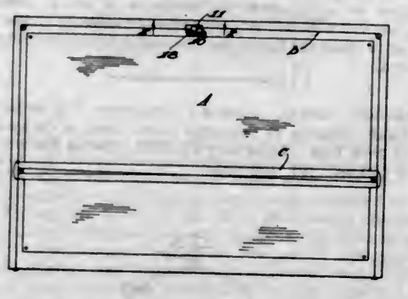
1,684,352. ANTIFRICTION BEARING. OTTO HENKELMAN, Canton, Ohio. Filed Aug. 18, 1925, Serial No. 51,021. Renewed July 1, 1927. 2 Claims. (Cl. 308—215.)



1. In an anti-friction bearing the combination with a bearing roller formed of a body portion tapered throughout and gradually increasing in diameter from its inner

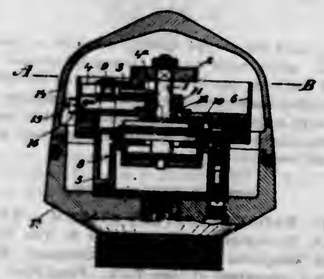
to its outer end and a circular head of greater diameter than and having the central part of its forward face formed integral concentrically with the smaller end of said body portion, said body portion in lengthwise section from its point of joinder with said head extending continuous in the same plane throughout, that portion of said head projecting from said body portion providing an annular flange having its forward face inclining rearwardly from said body portion, of an annular bearing element having a bevelled outer side face of the same length as said body portion and upon which the latter is seated, said element further having the outer part of its rear end formed to provide a rearwardly extending annular abutment of semi-circular cross section at any point throughout thereof to provide a curved contacting surface positioned between the inner and outer faces of said body portion, said contacting surface bearing against the forward face of said flange in close proximity to the point of joinder of the disc with said body portion, and said element further having the inner part of its rear end arranged forwardly throughout with respect to said contacting surface and of a concave cross section to provide a lubricant reservoir.

1,684,353. DRAWING-BOARD ATTACHMENT. ALFRED P. JACOB, New York, N. Y. Filed Mar. 4, 1927. Serial No. 172,899. 4 Claims. (Cl. 24—71.2.)



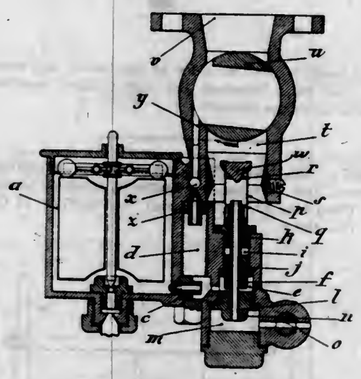
1. A cable tensioning device for drawing boards comprising a base having an opening therein, and a winding stem having a cable receiving kerf therein and frictionally engageable with the walls of said opening, and means for varying the degree of friction between the winding stem and the walls of said opening.

1,684,354. MECHANICAL TIME FUSE WITH CLOCKWORK. PAUL LIEBERGELD, Bad Thal, Germany. Filed Oct. 6, 1927, Serial No. 224,425, and in Germany Oct. 8, 1926. 4 Claims. (Cl. 102—36.)



1. A mechanical time-fuse with clock-work and with a ring for determining the fusing time rotatable with regard to the fuse-casing and having an aperture for releasing the fuse, comprising in combination with a main axle of the clockwork a pointer rigidly fixed on the main axle of said clockwork, a spring-controlled pointer-pin shiftably mounted in said pointer so that, when at the predetermined moment, it arrives at the aperture of said time-determining ring, it projects through this aperture and liberates the fuse-mechanism.

1,684,355. CARBURETOR. FRANK LIOUD, St. Etienne, France. Filed Apr. 21, 1924, Serial No. 708,012, and in France Oct. 24, 1923. 1 Claim. (Cl. 261—18.)

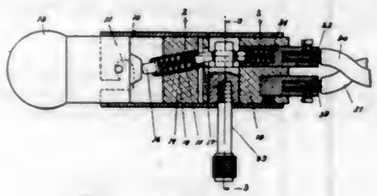


A carburetor for two liquids, a lower, an intermediate and an upper chamber separated from one another the lower chamber being in communication with the bottom of a central air admission tube and provided with a valve for regulating the admission of air thereto, the intermediate chamber being in communication with the inner of two vertical annular liquid supply tubes and with a well adapted to hold a reserve of light liquid fuel fed through a submerged calibrated nozzle feeding in response to the suction of the engine acting in said well, said well communicating through a calibrated orifice with a conduit in connection with the suction pipe of the engine which pipe is provided with a suitable throttle, the upper of said chambers being in communication with the outer of said annular liquid supply tubes and fed with a second and different liquid, the delivery mouth of the inner annular tube being at a higher level than the delivery mouth of the outer annular tube so as to ensure the preponderance of the supply of light fuel during low speeds and an increase in the proportion of the second liquid at high speeds of the engine, the said mouths being freely enclosed in a cylindrical chamber situated on the axis of said suction pipe of the carburetor and provided with air admission orifices at the level of said second mouth and with mixture outlets above said mouths and opposite a depending conical member at the upper end of said chamber and adapted to deflect the flow of the mixture so that it flows through said mixture outlets perpendicular to the axis of said choke tube, all substantially as herein described.

1,684,356. ELECTRIC-LAMP SOCKET. LEO MAYER, Boston, Mass., assignor to Henry Cole Company, Boston, Mass. Filed Nov. 18, 1927. Serial No. 234,204. 2 Claims. (Cl. 173—350.)

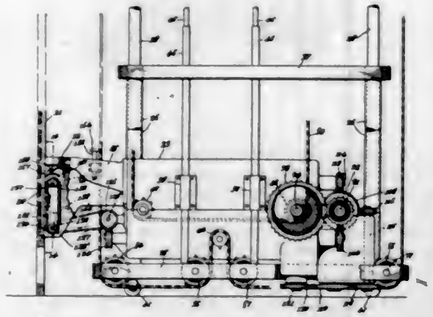
1. A lamp socket of the class described comprising a casing having means at one end thereof to receive a lamp; a plug fixedly secured in the casing and having a tubular member secured therein, said member being arranged angularly in respect to the axis of said casing, a terminal plug fixedly secured in the other end thereof, and having a tubular member secured therein, a revolving switch mem-

ber arranged between the said tubular members comprising a rectangular insulating block, having an opening therein, which carries a metallic contact member, whose two ends



are bent against the two sides of the block, and means to rotate said block between the two tubular members to make and break the circuit.

1,684,357. PLASTERING MACHINE. FITZHUGH S. MIOTON, New Orleans, and LOUIS H. GUERIN, Covington, La. Filed May 19, 1927. Serial No. 192,677. 11 Claims. (Cl. 72—130.)



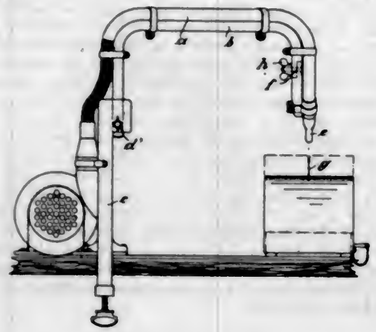
3. A plastering machine comprising a frame, a carriage movably mounted thereon, and an applicator moving with said carriage and composed of an endless conveyor, flat slats carried by said conveyor for smoothing the plaster in place, and means for driving said conveyor.

1,684,358. DEMOUNTABLE BRUSH. LEONCIO LOPEZ MOSQUERA, Buenos Aires, Argentina. Filed Feb. 2, 1926. Serial No. 85,557. 2 Claims. (Cl. 15—133.)



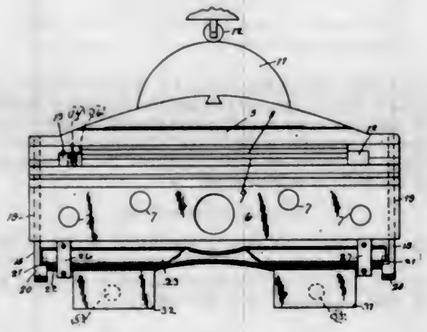
1. A paint brush of the character described, including in combination a tubular handle having one end opened and threaded interiorly and exteriorly, a bristle carrying head adjustably engaged with the threaded inner portion of the handle, a sleeve-like bridle surrounding the bristles and having the inner portion enlarged and threaded for adjustable engagement with the external threads on the handle, and the head being adjustable independently of the bridle so as to provide for the wearing action at the outer ends of the bristles carried thereby substantially as and for the purposes set forth.

1,684,359. FUR TESTING AND CUTTING DEVICE. ERNST MÜLLER, Berlin, Germany. Filed Nov. 7, 1927. Serial No. 231,583. 1 Claim. (Cl. 149—24.)



In a fur testing and cutting device of the character described, an air nozzle, a flexible pipe connected to said nozzle, a U-shaped arm supporting the pipe and holding the nozzle along one of its members, said latter member being jointed so as to allow the nozzle to be set at different angles, and a socket holding the other member of the arm so as to allow the latter and the nozzle to be vertically adjusted.

1,684,360. MOLD. JOSEPH C. NORWOOD, San Francisco, Calif., assignor to Intertype Corporation, a Corporation of New York. Filed July 16, 1927. Serial No. 206,222. 3 Claims. (Cl. 199—55.)

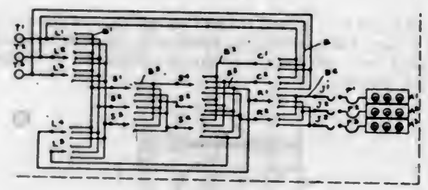


1. In a mold for a type casting machine, a lower mold section, an upper mold section, liners interposed between said mold sections, one of said liners being movable longitudinally with respect to the upper mold section and immovable with respect to said lower mold section, and means for maintaining said liner in intimate contact with said upper mold section.

1,684,361. RADIO RECEIVING SYSTEM. WINFRED T. POWELL, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 14, 1925. Serial No. 69,132. 5 Claims. (Cl. 179—2.)

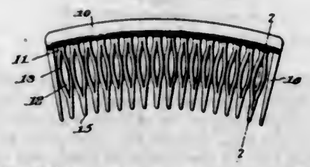
1. In an automatic telephone system, a calling line, a called station, a discriminating trunk associated with said called station, means controlled over said calling line in

series for thereafter extending said discriminating trunk to said calling line, and means including said discriminating trunk for disabling the usual busy test feature of said



called line whereby a connection is extended to said calling line over a simplex circuit including said calling line in multiple.

1,684,362. HAIR RETAINER OR COMB. LESTER THORNDIKE SAWYER, Fitchburg, Mass. Filed July 24, 1926. Serial No. 124,659. 2 Claims. (Cl. 132—20.)



1. A hair retainer comprising an elongated back, and a plurality of relatively small teeth mounted closely adjacent thereon, all of said teeth having closed smooth points and certain of said teeth having relatively large elongated openings throughout the major portion of their length and having relatively thin resilient side portions, the sides of adjacent teeth being normally in substantial engagement with each other, and said resilient side portions being yieldable to permit insertion of hair between said teeth and to grip and retain the hair thus inserted.

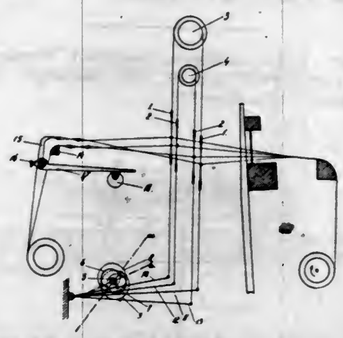
1,684,363. LEAD-SHEATHED TELEPHONE CABLE. EUGEN SCHÜRER, Cologne-Mulheim, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Filed Nov. 26, 1927, Serial No. 235,891, and in Germany Nov. 27, 1926. 1 Claim. (Cl. 173—266.)



A telephone cable comprising in combination a core containing electric conductors and electrically conducting covers on the said conductors, a lead sheath for the said core and a wrapping of muslin band having metallic threads running through it between the core and the lead sheath, as and for the purpose set forth.

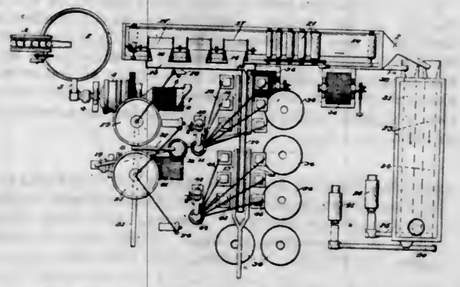
1,684,364. METHOD FOR WEAVING TEXTILE FABRICS. GERRIT JAN SECKEL, Enschede, Netherlands. Filed July 2, 1925, Serial No. 41,184, and in the Netherlands May 19, 1925. 6 Claims. (Cl. 139—79.)

1. In the process of weaving textile fabrics which comprises passing more than two warp threads through the same slit of the reed, the method of preventing reediness which consists in controlling the tension of the warp threads within each slit of the reed at the moment at



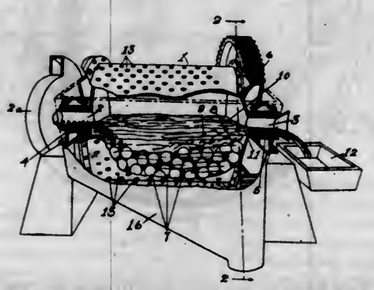
which the weft thread is beaten up so that the threads immediately adjacent the wires of the reeds are less tensioned than the interjacent threads.

1,684,365. PROCESS OF TREATING ASBESTOS ORE. SAMUEL H. DOLBEAR, New York, N. Y., assignor to Selective Treatment Company Limited, Montreal, Canada, a Corporation of Quebec. Filed June 5, 1924, Serial No. 717,385, and in Canada Sept. 20, 1923. 42 Claims. (Cl. 209—2.)



1. The method of treating asbestos ore which consists in reducing and separating the same in pencil-like form from associated rock.

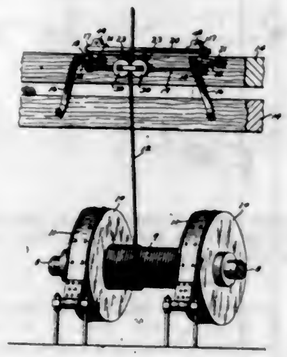
1,684,366. METHOD OF TREATING ASBESTOS ORES. SAMUEL HOOD DOLBEAR, San Francisco, Calif., assignor to Selective Treatment Company Limited, Montreal, Canada, a Corporation of Quebec. Filed June 3, 1924, Serial No. 717,556, and in Canada Nov. 11, 1922. 9 Claims. (Cl. 209—2.)



1. The method of concentrating asbestos ore which consists in subjecting the ore to under-water treatment, loosening the asbestos and at the same time preserving its

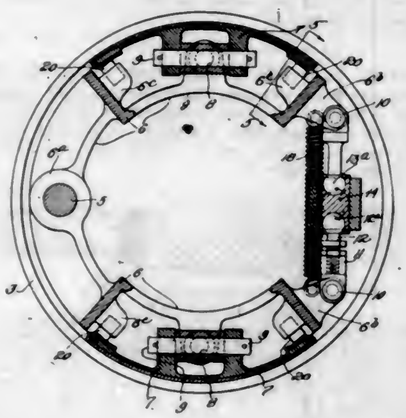
natural length, causing the loosened asbestos to pass into a body of water adjacent the comminuting-zone, and maintaining the loosened asbestos in a state of suspension in said body of water until overflowed.

1,684,367. LINE CONTROL. WALTER L. FOSTER, Whittier, Calif. Filed Apr. 23, 1923. Serial No. 633,891. 19 Claims. (Cl. 242—157.)



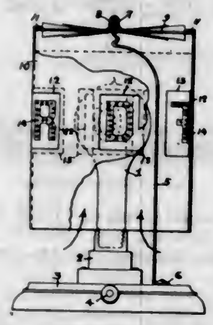
1. In combination with a drum and a line to be reeled thereon, a line control comprising a frame resiliently mounted to rock in a plane parallel with the axis of said drum and substantially perpendicular to said line, a carriage mounted on said frame to slide axially of said drum, means to resist the sliding of said carriage in either direction, and guide means on said carriage for the passage of the line.

1,684,368. BRAKE FOR GYRATORY CENTRIFUGALS. EUGENE ROBERTS, Salt Lake City, Utah, assignor to The Western States Machine Company, Salt Lake City, Utah, a Corporation of Utah. Filed Apr. 6, 1923. Serial No. 630,239. 4 Claims. (Cl. 188—78.)



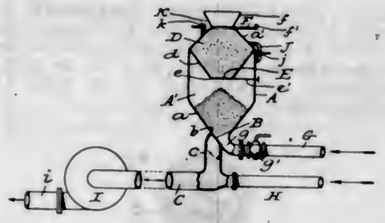
1. In a brake for gyratory centrifugals, the combination of a brake pulley secured to the gyratory basket shaft and oscillating therewith, a pair of brake arms pivotally mounted interiorly of said pulley, the fulcrumed ends and the free ends of said brake arms being supported against downward movement, and means for expanding said brake arms by horizontal thrust into engagement with the surrounding pulley, substantially as described.

1,684,369. SCINTILLATING SIGN. ARTHUR W. SIEVERS, Valparaiso, Ind., assignor to Noah S. Amstutz. Filed Jan. 24, 1924. Serial No. 688,315. 6 Claims. (Cl. 40—40.)



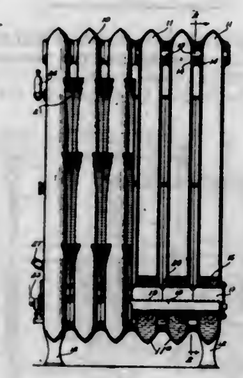
1. In scintillating sign, a source of illumination, an enclosing cylinder supported for rotation above the source of light, means attached to the cylinder adapted to automatically rotate the same through air currents set in motion by the radiant heat of the source of light, and light transmitting advertising media secured to openings in the wall of the cylinder, said media comprising relatively large translucent areas and a plurality of small openings therethrough adapted to produce scintillations as the cylinder is rotated.

1,684,370. ART OF TRANSPORTING MIXED MATERIALS. KARL R. SCHUSTER, Hopatcong, N. J. Filed Sept. 18, 1925. Serial No. 57,238. 17 Claims. (Cl. 83—73.)



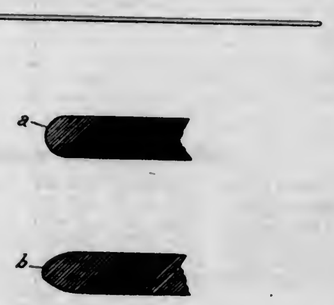
1. In the art of mixing and transporting materials such as concrete, the method which consists in accumulating within a chamber the materials to constitute a charge to be mixed; feeding said charge to a second chamber; blowing compressed air upwardly within the second chamber and exposing the components of the mass consituting the charge to the upward flowing air for effecting the admixture of the materials within the second chamber; accumulating the inflowing air above the mass composing said charge concurrently with the admixture of such charge; dislodging the mixed charge from the second chamber by gravity of the charge and by pressure exerted upon the charge by the air accumulated above the charge; feeding the dislodged mixed mass constituting the charge into a conduit, and transporting the mixed charge within said conduit.

1,684,371. GAS-HEATED STEAM RADIATOR. JAMES FRANCIS FIRTH, New York, N. Y. Filed May 10, 1927. Serial No. 190,308. 2 Claims. (Cl. 237—17.)



1. A gas heated steam radiator comprising a plurality of spaced and connected sections adapted to contain water in their lower portions, a transversely extending burner chamber in the lower part of the radiator and so located therein that it will be surrounded by water, a gas burner in the chamber, said chamber having openings in the top between the radiator sections for the passage of the products of combustion, and baffles extending upwardly and forwardly from the chamber adjacent the openings therein between the radiator sections for directing the products of combustion passing through said openings.

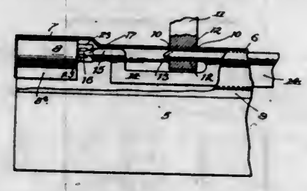
1,684,372. METALLIC PLAYING CARD. MAX MAENNLEIN, Vienna, Austria. Filed Sept. 12, 1927, Serial No. 219,131, and in Austria Apr. 26, 1927. 1 Claim. (Cl. 273—152.)



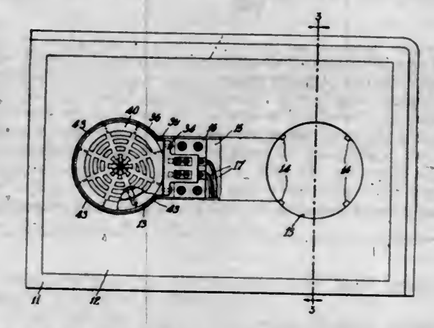
A playing card comprising a thin body of flexible and springy light aluminium alloy having rounded edges, and having such a weight that it has substantially no rebound when falling flat upon a flat surface.

1,684,373. LOOSE-LEAF BINDER. JOHN L. MCMILLAN, Syracuse, N. Y. Filed Dec. 24, 1925. Serial No. 77,565. 6 Claims. (Cl. 129—24.)

1. In a loose leaf binder of the character described, the combination of a housing having a hollow longitudinal edge of substantially cylindrical cross section enlarged at one end to receive a lock, and provided at intervals with openings in said cylindrical edge for the introduction of leaf-carrying links; links provided with transverse openings near their ends to receive pintles; a pintle-bearing slide longitudinally movable in the housing; a lock mounted in the enlarged end of the housing; and means for connecting and disconnecting the pintle slide and the lock, to prevent longitudinal movement of said slide.

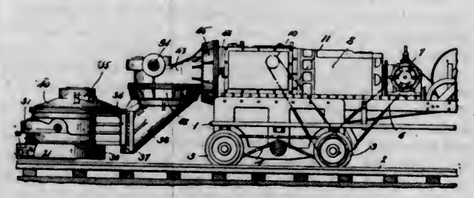


1,684,374. ELECTRIC HOT PLATE. WILLIAM G. NORDLING, Newark, N. J. Filed Dec. 26, 1925. Serial No. 77,681. 9 Claims. (Cl. 219—37.)



1. An electric hot plate, comprising an openly supported electric heating member including a heating element, a metallic top plate with solid portion entirely covering the heating element and having intermediate openings through which heated air may be delivered from the heating element, and a reflector member beneath said heating element.

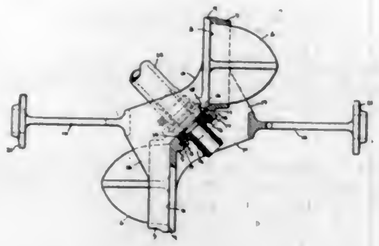
1,684,375. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 13, 1924, Serial No. 699,119. Renewed June 29, 1927. 64 Claims. (Cl. 262—28.)



1. In a wheeled mining apparatus, in combination, guiding means, a support movable longitudinally thereof, self contained power operated support wheel driving mechanism for effecting opposite rectilinear movements of said support at a cutting speed, cutting mechanism including a cutter bar, a support to which said bar is pivotally connected for swinging movement, said second mentioned support being pivotally connected to said first mentioned support for movement about an axis parallel to the axis of swing of said cutter bar, a motor driven power shaft

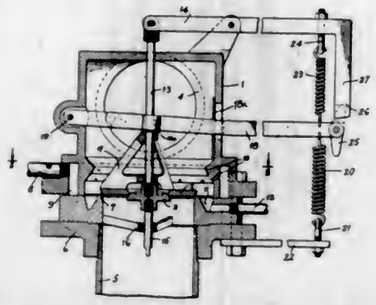
journaled on said first mentioned support rotatable on an axis which remains at all times in a vertical plane parallel to the direction of said guiding means, and driving connections between said shaft and said cutting mechanism.

1,684,376. AUTOMATIC TRAIN-PIPE-CONNECTER HEAD. JOSEPH ROBINSON, New York, N. Y. Filed Apr. 2, 1921, Serial No. 458,119. Renewed Oct. 22, 1926. 10 Claims. (Cl. 285—58.)



1. An automatic train pipe connecter head, comprising in combination, a perforated stem connected with the head at one end and having at the other end a flange, a pair of guides positioned one in advance of the other on opposite sides of the longitudinal axis of said stem, the base of each of the guides being disposed in a plane at substantially a right angle to said axis, a perforated portion extending diagonally across said axis and joining said guides, a fluid conduit mounted in said perforation and extending therethrough and suitably locked therein to conduct a fluid diagonally through said head, and a horizontally extending web projecting across said conduit and joining said guides and said stem.

1,684,377. PRESSURE AND VACUUM RELIEF VALVE. JAMES L. GRAY, Port Arthur, Tex., assignor of one-fourth to E. Bruce, Goose Creek, Tex. Filed Jan. 13, 1925. Serial No. 2,128. 5 Claims. (Cl. 277—45.)



1. A combined pressure and vacuum relief mechanism comprising a pressure relief valve, a vacuum relief valve positioned in the face of said first valve and oppositely disposed with respect thereto, means for maintaining said second valve in open position for gradual release of pressure while maintaining said first valve in closed position, and means for automatically releasing said first valve upon development of sudden pressure.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 374—No. 3. TUESDAY, SEPTEMBER 18, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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Reissues	3—No.	17,084 to No.	17,086, inclusive.
Designs	29—No.	76,338 to No.	76,366, inclusive.
Patents	700—No.	1,684,378 to No.	1,685,077 inclusive.
Total	1,133		

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,555,634, S. Cohen, Variable condenser, decided August 10, 1928, claims 1, 2, 4, 5, 7, and 8.

Pat. 1,568,182, J. Primrose, Oil still, decided July 6, 1928, claims 3, 4, 5, and 10 to 15, inclusive.

Pat. 1,574,710, C. C. Spreen, Cover, decided August 11, 1928, claim 1.

Pat. 1,578,802, E. M. Clark, Progenesis of petroleum, decided August 7, 1928, claim 8.

Final decisions in interferences have been rendered against the following trade-marks:

T. M. 130,533, Fresh citrus fruits—namely, oranges, grapefruit, and tangerines—Lake Reedy Packing Company, Frostproof, Fla. Registered April 27, 1920. Decided August 29, 1928.

T. M. 209,688, Wall board and plaster lath, Buttress Manufacturing Co., Los Angeles, Calif. Registered March 2, 1926. Decided August 10, 1928.

APPLICATIONS.

PRELIMINARY AMENDMENT.

Additional Claims.

U. S. PATENT OFFICE, *Washington, Aug. 18, 1928.*

My attention has just been called to an application filed with 64 claims and a filing fee of $64.00, as required by statute. Six days after the application was filed the applicant presented an amendment adding 84 additional claims, without the extra fee of $1.00 per additional claim, as would have been required by the statute had the claims been presented six days earlier. In cases in which claims in excess of the number corresponding to the filing fee are presented before the first official action on the case, the Examiners will place the amendment in the file and enter it on the file wrapper, but will defer action on the claims presented in the amendment. In his first action the Examiner should act on the claims originally presented and for which the appropriate fee was paid. If, after the official action is made, the applicant believes that any of the claims presented by the amendment are patentable, he can have them entered and considered in the next action, but only by specifically pointing out wherein the claims presented in the amendment are patentable over the references cited by the Examiner.

THOMAS E. ROBERTSON,
Commissioner.

Condition of Applications Under Examination at Close of Business September 7, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 112,495; Trade-Mark Division, 1,340. Oldest new case, Nov. 9, 1927; oldest amended, Nov. 10, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	†Jan. 18	†Jan. 23	1,576
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	†Jan. 16	†Jan. 27	1,701
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Dec. 21	†Jan. 14	1,579
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Nov. 14	Nov. 19	1,637
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Dec. 3	Dec. 3	1,598
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Dec. 16	Dec. 22	2,018
105	7. JARBOE, C. G., Optics; Photography	Nov. 26	Nov. 26	1,986
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	†Feb. 9	†Feb. 6	1,689
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Mar. 15	†Mar. 12	1,723
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Dec. 16	†Jan. 13	1,842
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Feb. 2	†Feb. 1	984
380	12. PIERCE, P. P., Machine Elements	†Jan. 14	†Jan. 5	2,015
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Jan. 13	Dec. 14	1,479
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Dec. 6	Dec. 14	1,246
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 10	†Jan. 5	2,483
242*	16. SPENCER, C. J., Telegraphy; Telephony	†Feb. 14	†Jan. 23	1,156
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Dec. 8	†Jan. 5	1,516
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 12	Dec. 17	1,627
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	†Jan. 6	Dec. 29	1,939
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Mar. 16	†Mar. 13	1,600
212	21. THURBUR, W. L., Textiles; Cloth Finishing	Dec. 22	†Feb. 1	1,088
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Dec. 8	Dec. 16	1,625
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Nov. 16	Nov. 12	1,131
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 29	Dec. 10	1,501
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 24	†Feb. 25	1,685
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Dec. 21	†Jan. 3	1,212
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Jan. 28	†Jan. 31	1,438
225	28. BENSON, A. R., Internal-Combustion Engines	Dec. 8	Dec. 8	2,013
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	†Jan. 14	†Jan. 5	1,187
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 11	†Mar. 1	1,456
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Dec. 29	†Jan. 4	2,170
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Dec. 12	Dec. 10	2,207
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Apr. 4	†Apr. 2	1,951
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Nov. 18	Nov. 25	1,461
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	†Feb. 29	†Mar. 22	1,701
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Feb. 14	†Feb. 4	2,035
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 6	†Jan. 20	2,212
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Feb. 6	†Jan. 31	1,575
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 10	Nov. 17	1,908
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Dec. 16	Dec. 5	2,078
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	†Jan. 4	†Jan. 30	1,451
223*	42. CUTTINO, H. O., Electric Signaling	Dec. 5	Dec. 29	1,666
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	†Jan. 6	†Feb. 3	2,193
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	†Jan. 5	†Jan. 10	2,138
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Dec. 8	Dec. 10	2,477
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Nov. 21	Nov. 21	1,891
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	†Jan. 5	†Jan. 12	2,067
212*	48. ROEPKE, O. B., Electricity, General Applications	†Jan. 16	†Jan. 9	1,880
230	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Nov. 30	†Jan. 14	1,561
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	†Jan. 7	†Jan. 10	2,578
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Dec. 23	Dec. 23	2,259
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	†Jan. 10	†Jan. 11	2,206
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	†Jan. 11	†Jan. 4	1,786
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Dec. 14	Dec. 23	2,385
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Dec. 15	Dec. 17	914
	{Designs	†July 16	†Aug. 1	645
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Nov. 9	Nov. 10	2,632
257*	57. NICOLSON, G. D. G, Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	†Jan. 1	†Jan. 14	1,206
270*	58. DOWELL, E. F., Abrading; Typewriting	Nov. 11	Nov. 21	1,484
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	Nov. 26	Dec. 1	2,461
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Nov. 19	Dec. 8	1,642
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Nov. 12	Nov. 25	2,156
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	Dec. 3	Dec. 9	2,717
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	†Aug. 10	†Aug. 22	1,619
	{Labels and Prints	†Aug. 4	†Aug. 24	221

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

HAYDE *v.* BOYNTON.

No. 2,986. Decided May 7, 1928.

INTERFERENCE—PRIORITY.

Priority awarded to H. on the ground that he was the first to conceive the invention and that B. derived his knowledge thereof from him.

APPEAL from Patent Office. Reversed.

Mr. A. V. Cushman and *Mr. W. H. Cloud* for Hayde.

Mr. A. E. Dowell, Mr. F. S. Lyon, and *Mr. L. S. Lyon* for Boynton.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of an Assistant Commissioner of Patents awarding priority to the party Boynton.

The two counts of the interference read as follows:

1. A concrete block or structure, consisting of cement, and an aggregate of vesicular material free from laminations or planes of cleavage resulting from subjecting suitable earthy material containing compounds capable of evolving gases to sufficient heat to incipiently fuse the material and generate gases therein which expand the material and render it vesicular; as and for the purpose set forth.

2. As an article of manufacture, a crushed cellular cement aggregate comprising expanded argillaceous material free from laminations or planes of cleavage.

In the spring of 1913 Hayde, who theretofore had been in the building and contracting business and who had made experiments with cinder concrete, turned his attention to the production of light aggregate, and subsequently engaged in the brick-making business. He testified that in 1913, through the use of a blowtorch and two crucibles, he burned a small quantity of clay or shale into a lightweight, cellular product, a considerable portion of which would float. In August or September, 1914, the evidence discloses that he burned some lightweight aggregate material at the Ocean Shore Iron Works in San Francisco and sent some of it to his nephew, George Hayde, at Kansas City, Mo., where he formerly lived and to which place he returned late in 1915. The letter, dated October 7, 1914, accompanying this material is in evidence as Exhibit 8, and the material sent is also in evidence as Exhibits 9, 10, and 11. The Examiner of Interferences found that Exhibit 8 clearly discloses the use of light, burned clay material in concrete, and that the sample exhibits of the material are light, that some of them will float in water, and that they do not show laminations. Therefore, he ruled that these exhibits and the testimony concerning them constituted a reduction to practice of count 2 and disclosure of count 1 as of October 7, 1914.

After his return to Kansas City, Hayde took charge of the brick plant of the Flannigan-Zeller Brick Company, and did nothing further with his invention until the fall of 1916, when he produced a quantity of burned shale and burned clay of the light expanded type. In the winter of 1917 he rigged up a rotary kiln on the plant site of the Flannigan-Zeller Brick Company in Kansas City and burned a considerable amount of material. On January 29, 1914, Hayde wrote a patent attorney concerning his invention, and considerable correspondence ensued, which is in evidence. This attorney died and the correspondence was taken up with another attorney, who on July 3, 1917, filed an application for patent, and Patent No. 1,255,878 issued to Hayde on February 12, 1918.

In the specification it is stated—

> My invention relates to the manufacture of brick, tile terra cotta, and like molded articles for building, paving and other purposes, from a raw material the basis of which is clay, shale, or similar argillaceous material. * * * It is to be understood that my invention includes such variations and modifications of the preferred procedure hereinafter referred to in detail and at length as will be obvious to those skilled in the art to which my invention relates. * * * The basic raw material will, during or after the mining operation in which it is removed from the original deposit, be broken up so as to pass through a screen having about a four inch mesh, the large lumps being rejected, or broken into finer particles before being used, in order to facilitate the working of my process. * * * The breaking up or spontaneous disintegration of the material is prevented as much as possible during the cooling thereof so that when the same is crushed the stronger and tougher portion will go through the crusher in as large lumps as the construction of the crusher will permit, while the weaker and more friable portion of the mass will be broken into finer pieces (dependent upon the toughness of various portions of the material), whereby particles ranging in size from the coarsest which may pass through the crusher to an impalpable dust will be produced at a single crushing operation.

This patent carried no claims of the scope of those in issue.

During the pendency of his application for patent, Hayde formed an association with a Mr. Appo for the purpose of exploiting burned clay products, the name of the company being The Haydite Products Company.

In February, 1918, Boynton entered the employ of the concrete-ship section of the United States Shipping Board Emergency Fleet Corporation in Washington, D. C. He was an engineer, and his immediate superior was Chief Engineer R. J. Wig.

Entertaining the view that his aggregate might be useful to the Government in the construction of concrete ships, Hayde, through the Haydite Products Company, addressed a communication dated February 18, 1918, to the director of the Department of Concrete Ship Construction, U. S. Emergency Fleet Corporation, Washington, D. C., offering the use of his patented invention to the Government, without charge, and inclosed "a small sample of Haydite concrete." After stating the results of the Kansas City testing laboratory, the communication continues—

> As applied to concrete ship construction, the lighter weight of Haydite concrete as compared with the ordinary sand and stone concrete, entirely overcomes Admiral Taylor's objection in this respect. In reasonably rich mixes Haydite concrete will successfully meet all strength requirements. * * * Obviously, we shall be glad to place all of our data at your disposal and, further, we shall be very glad to supply you with such quantities of Haydite *as will enable the Bureau of Standards to test it in every respect and to your entire satisfaction.*

On March 6th following, the letter offering the use of Haydite was acknowledged by the Shipping Board, the letter being signed by R. J. Wig as chief engineer, and initialed by "CWB," who it is admitted was Carl W. Boynton, the appellee. In this letter, written by Mr. Boynton, it is stated—

> We are quite interested in burnt clay as a concrete aggregate in connection with boat construction and anticipate that this material can be developed to a point where it will give us the required strength at the same time reducing the weight of concrete materially. The Bureau of Standards, at our suggestion has requested you to forward 500 lbs. of your Haydite for tests.

The 500 lbs. of Haydite requested was sent the Bureau of Standards, and its receipt acknowledged. On July 3, 1918, over the signature of Mr. Boynton as chief inspecting engineer, the report of the tests made at the Bureau of Standards of the material sent was furnished to the Haydite Company, with a further statement that—

> as soon as the missing 28 day results are reported by the Bureau of Standards, they will be forwarded to you for your information.

On October 4, 1918, the results of the 28-day tests were sent, with the request that the Haydite Company would—

> consider this information as confidential and not for publication or other publicity.

Under date of June 20, 1918, Richardson, an engineer in the concrete-ship section, wrote Appo that—

> the 28-day test of your shale Haydite gave over 4000 lbs. and was considered satisfactory. Your clay Haydite, which I found had not been tested, I had made up the last day I was there. All of this floated on water and I presume was a select lot.

Hayde also introduced in evidence, as his Exhibit 31, a certified copy of pages of the Engineering News-Record of the issue of July 11, 1918, containing an abstract of a paper delivered by "Messrs. Wig and Hollister at Meeting of American Concrete Institute." In the article it is stated that concrete for concrete ships "must have a compressive strength of at least 4000 lbs., per square inch at 28 days, and a minimum weight;" that—

> The commercial future of the concrete ships is in large measure dependent upon obtaining a light-weight concrete. Investigations are quite promising. *The strength and weight of one of these mixtures which meets our requirements* is as follows: One part cement, to one part special fused clay below ¼ inch size to two parts same aggregate between ¼ and ½ in. size, had a compressive strength of 3380 lb. per square inch at seven days and 4350 lb. per square inch at 28 days. It weighed 106 lb. per cubic foot in a saturated condition.

These specifications are the same as those given in the report of the Bureau of Standards on the tests of the Haydite sent by the Haydite Company, and, as observed by the Examiner of Interferences,

> The conclusion is irresistible that the figures used by Wig and Hollister in their paper before the American Concrete Institute prior to July 11, 1918, with regard to the satisfactory concrete made with "fused clay" were taken from Government reports on concrete made with Haydite.

In May of 1918 Mr. Appo had an interview with Mr. Boynton at the office of the Shipping Board, the interview having been arranged through Mr. Davis of the Bureau of Standards. Mr. Wig was present for a time. The test of Haydite that had been made by the Bureau of Standards were under discussion, and Appo explained to Boynton the process of burning Haydite, and a rough sketch was made of the burning kiln that Hayde then was using. Boynton expressed the opinion that the process was contrary to all known burning processes and "was entirely outside of his knowledge of burning material and burning processes." Finally, Appo suggested that Boynton delegate some representative of the Shipping Board to go to Kansas City, where material would be burned in the presence of this representative, and that it would be found "on test that it approximated the material that we had originally sent to the Bureau of Standards." This suggestion was adopted by Boynton, and Richardson was sent to Kansas City. On May 26, 1918, Richardson made a detailed report to his superior, Boynton. In this report he said,

> Some of the clay came through the cylinder a light cinder and a good deal of it was not burned to a cinder and was heavy. Some of this was put back and went thru a second time with no appreciable improvement. Mr. Hayde thought it would have given better results if it had been disintegrated or broken up finer.

In our view of the case, it is unnecessary further to consider the evidence for Hayde.

The interference originally involved applications of Willard D. Richardson and H. P. Brown (employees under Boynton in the Shipping Board), Croll, Boynton, and Larson. Subsequently Hayde was made a party. All of these parties but Hayde and Boynton have been eliminated. As originally declared, the interference involved but a single count, which contained no limitation that the aggregate should be "free from laminations or planes of cleavage."

The case came before the Law Examiner on a motion by Croll to substitute Croll's claim 1 for the issue, and a motion by Boynton to amend the issue. Both motions were denied by the Law Examiner, who, being of the view that the claim as drawn was anticipated by the patent to Senn, No. 930,801, required the insertion of the words "free from laminations or planes of cleavage", and suggested the addition of a second count not limited to a concrete block. Both Boynton and Croll appealed to the Board of Examiners in Chief, who sustained the Law Examiner, and the issue was amended accordingly.

After an unsuccessful effort to have his patent reissue with claims to a process and an aggregate, Hayde filed the application in issue as "a continuation in part" of his patent, and was made a party to this interference. Thereupon, Boynton moved to dissolve, on the ground that Hayde's application did not disclose the invention. In disposing of the motion, the Law Examiner said, in part—

> It is evident that the raw material employed by Hayde may be laminated, since shale is a laminated material. The issue does not call for an unlaminated raw material and count 2 is satisfied, so far as freedom from laminations is concerned, if the final product prior to crushing is unlaminated. It is immaterial that Hayde did not describe his burned product as free from laminations, if as a matter of fact it is in that condition. It would appear that raw material of a character which will produce the cellular structure described and claimed by Hayde will when broken up and heated to the necessary extent to produce incipient fusion result in an unlaminated material. There is no reason to confine the size of the broken pieces to a relatively large size or such as will pass a four inch mesh and Hayde's specification avoids restriction to any definite size.

The case then was considered by the Examiner of Interferences, who found that the earliest date could be awarded Boynton for conception and reduction to practice was early in July, 1918, and that Hayde had established conception and reduction to practice prior to that date.

The Board of Examiners in Chief found that there was no disclosure by Hayde of a material free from laminations or planes of cleavage, and awarded priority to Boynton, although he had introduced no evidence of conception or reduction to practice earlier than July, 1918. The Assistant Commissioner affirmed the Board.

We are of the view that the decisions of the Board and the Assistant Commissioner are based upon a misconception of the evidence and the real meaning of the counts of the issue. It will be remembered that before Hayde became a party to the interference, Boynton had objected to the insertion in the counts of the words "free from laminations or planes of cleavage." The Law Examiner found that Hayde's

> burned material is crushed and conforms to the requirement of count 2, which calls for a crushed cellular cement aggregate comprising expanded argillaceous material free from laminations or planes of cleavage,

and that—

> the aggregate disclosed by Hayde when used in the ordinary method of making concrete will produce the concrete block or structure of count 1, and Hayde obviously contemplates such use of his aggregate.

In other words, it was the view of the Law Examiner that these counts as finally drawn meant that the crushed aggregate should be free from laminations or planes of cleavage. We agree with this view. Crushed aggregate and cement are used to make the concrete block of the first count, and if that aggregate is free from laminations or planes of cleavage, the block will possess the requisite strength, and such was the real object of the limitation. That Hayde had a conception of the use of his crushed aggregate and cement in ship construction conclusively appears from his communication to the Fleet Corporation, and whatever information he possessed concerning the subject was either directly or indirectly imparted to Boynton. The small sample which he inclosed with his original communication inspired a request by Boynton for the 500 lbs., which was sent for the express purpose of exhaustive tests. What was the purpose of these tests? Obviously, to determine whether the material could be used in ship construction, and the result of those tests demonstrated that it could. It is strange, indeed, that if laminations or planes of cleavage appeared in the mixture the Bureau of Standards did not discover it. No such question was raised by Boynton until long afterwards, for the obvious reason that there was nothing upon which to base it.

The Examiner of Interferences has carefully and impartially reviewed the evidence, and we are in accord with his reasoning and conclusion. We are fully convinced that Boynton derived his knowledge of the invention from Hayde, and that Hayde is entitled to the award of priority.

The decision is reversed.

Reversed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,018,502 (*a*), Just & Hanaman, Manufacture of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, C. C. A., 3d Cir., Doc. 3514, *Desmond Incandescent Lamp Co. et al.* v. *General Electric Co.* Grant of preliminary injunction, affirmed July 16, 1928. Doc. 3770, *Sunray Lamp Co., Inc., et al.* v. *General Electric Co.* Decree as above. Doc. 3701, *Republic Electric Co., Inc., et al.* v. *General Electric Co.* Grant of preliminary injunction affirmed as to one defendant, reversed as to the other, July 16, 1928.

1,018,502 (*b*), Just & Hanaman, Manufacture of incandescent electric lamps, C. C. A., 3d Cir., Doc. 3769, *Atlas Specialty Co. et al.* v. *General Electric Co.* Grant of preliminary injunction affirmed July 16, 1928.

1,082,405, C. E. Cleveland, Lumber trimmer; 1,267,130, Skeith & Burrows, Power lifting mechanism for saw trimmers, D. C. Oreg. (Portland), Doc. E 8749, *Allis-Chalmers Mfg. Co. et al.* v. *Southeast Portland Lumber Co. et al.* Decree for plaintiffs July 3, 1928.

1,089,315, A. A. Brown, Waistband lining for trousers; 1,126,379, same, Trousers, filed July 19, 1928, D. C., S. D. Ohio, W. Div., Doc. E 550, *Brown Method Co., Inc.*, v. *The Becker Tailoring Co.*

1,125,476, G. Claude, System of illuminating by luminescent tubes; 1,191,495, same, Method for separating neon from gases with which it is mixed, C. C. A., 2d Cir., Doc. 9960–1, *Claude Neon Lights, Inc.*, v. *E. Machlett & Son.* Patent 1,125,476 held valid and infringed as to claim 1, decree so modified (notice dated July 16, 1928).

1,126,379. (See 1,089,315.)

1,127,446, F. B. Johnston, Scaffolding device, D. C., W. D. N. Y., Doc. 1284–G, *American Safety Device Co., Inc.*, v. *M. Iuppa & Maggio Co., Inc.* Consent decree July 7, 1928.

1,127,660, J. H. McMichael, Method of and apparatus for transporting granular and plastic building material, C. C. A., 2d Cir., Doc. 9732, *Concrete Mixing & Conveying Co.* v. *Powers-Kennedy Contracting Corp. et al.* Affirmed (notice dated July 17, 1928).

1,142,361, G. Ornstein, Process of antisepticizing water, filed Apr. 2, 1928, D. C. Conn. (New Haven), Doc. 1953, *Electro Bleaching Gas Co. et al.* v. *The Village Water Co.* Doc. 1954, *Electro Bleaching Gas Co. et al.* v. *Scovill Mfg. Co.*

1,146,294, J. P. Williams, Contact mechanism for electric alarm system, appeal filed July 14, 1928, C. C. A., 2d Cir., Doc. 10107, *Duplex Electric Co.* v. *Padua Hold-Up Alarm Corp.*

1,146,938, H. Hubbell, Attachment-plug receptacle, filed June 20, 1928, D. C. Conn. (New Haven), Doc. 1960, *H. Hubbell, Inc.*, v. *Gaynor Electric Co., Inc.*

1,180,159. (See 1,018,502 (*a*).)

1,191,495. (See 1,125,476.)

1,195,076, P. C. Osteen, Camera, C. C. A., 2d Cir., Doc. 10001, *P. C. Osteen* v. *Ansco Photoproducts, Inc.* Reversed with directions to dismiss because of invalidity and noninfringement (notice dated July 17, 1928).

1,206,742, 1,206,743, J. S. Wheeler, Pipe-bending machine; 1,263,301, 1,462,673, 1,598,903, same, Bending machine; 1,326,999, Wallace & Fox, Work holder; 1,342,363, same, Gear clutch for bending machine, filed June 23, 1928, D. C., N. D. Calif. (San Francisco), Doc. E 2140, *J. S. Wheeler* v. *U. S. Pipe Bending Co. et al.*

1,206,743. (See 1,206,742.)

1,262,860, S. B. Smith, Incubator, C. C. A., 6th Cir., Doc. 4951, *The Buckeye Incubator Co. et al.* v. *J. A. Blum.* Affirmed June 30, 1928.

1,263,301. (See 1,206,742.)

1,267,130. (See 1,082,405.)

1,274,053, A. F. Jenkins, Cutting and welding torch, D. C., S. D. N. Y., Doc. E 38/112, *The Alexander Milburn Co.* v. *K-G Welding & Cutting Co.* Consent order of discontinuance July 13, 1928.

1,279,333. (See 1,422,759.)

1,307,733, A. V. Guilborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C., S. D. N. Y., Doc. E 45/284, *The Bassick Mfg. Co.* v. *Miller's Brass Fitting Co., Inc.* Patent held valid and infringed July 3, 1928. Same, filed July 13, 1928, D. C., N. D. Ohio, E. Div., Doc. 2619, *The Bassick Mfg. Co.* v. *P. J. Riley.* Same, filed June 28, 1928, D. C. Conn. (New Haven), Doc. 1961, *The Bassick Mfg. Co.* v. *The Hershey Metal Products Co.*

1,307,734. (See 1,307,733.)

1,310,698, H. Hill, Paper or similar cup, C. C. A., 2d Cir., Doc. 10048, *Tulip Cup Corp. et al.* v. *Ideal Cup Corp.* Reversed (notice dated July 17, 1928).

1,326,999. (See 1,206,742.)

1,338,829. (See 1,422,759.)

1,342,363. (See 1,206,742.)

1,353,161, R. C. Hoffman, Disk wheel, C. C. A., 6th Cir., Doc. 4803, *Motor Wheel Corp.* v. *R. C. Hoffman.* Affirmed June 30, 1928.

1,353,197, J. F. Werder, Grinding compound; 1,534,196, same, Abrasive compound, C. C. A., 6th Cir., Doc. 4839, *The Zip Mfg. Co.* v. *The Pep Mfg. Co.* Reversed as to Patent 1,353,197 and affirmed as to 1,534,196 June 30, 1928.

1,405,773, 1,438,229, Re. 15,502, W. M. Folberth, Windshield cleaner; 1,487,405, S. G. Skinner Suction motor for windshield cleaner; Re. 16,322, H. Hueber, Power-operated windshield cleaner, filed July 6, 1928, D. C. Conn. (New Haven), Doc. 1967, *Trico Products Corp.* v. *Nieland Mfg. Co., Inc.*

1,422,759, 1,437,939, H. M. Green, Pump; 1,547,117, same, Locked packing pump plunger; 1,279,333, same, Well-cleaning device; 1,338,829, same, Sand screen for pumps, D. C., S. D. Calif. (Los Angeles), Doc. E N–76–J, *C. M. O'Leary, jr., et al.* v. *Sure Lift Oil Pump Corp. et al.* Defendant granted motion to dismiss, citing 99 U. S. 547 and 185 U. S. 282.

1,437,939. (See 1,422,759.)

1,438,229. (See 1,405,773.)

1,447,090, J. E. Langsdorf, Necktie, D. C., N. D. Ohio, E. Div., Doc. 1166, *Franc-Strohmenger & Cowan, Inc.*, v. *B. Forchheimer.* Claim 5 held invalid, bill dismissed (notice dated July 20, 1928).

1,462,673. (See 1,206,742.)

1,487,405. (See 1,405,773.)

1,501,704. (See Re. 15,607.)

1,506,046, W. H. Bullock, Radio receiving system, filed July 12, 1928, D. C., S. D. N. Y., Doc. E 46/13, *W. H. Bullock et al.* v. *Haynes Griffin, Inc.*

1,509,674, M. E. Koehler, Consumer of flue impurities, C. C. A., 2d Cir., Doc. 10007, *Akme Flue, Inc.*, v. *Aluminite Flexible Flue Cap Co., Inc.* Reversed (notice dated July 17, 1928).

1,517,659, F. C. Warne, Disk harrows, filed Apr. 12, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–68–H, *The Roderick Lean Co.* v. *The Killefer Mfg. Co. et al.*

1,522,577, A. L. Connelly, Method of excavating, C. C. A., 6th Cir., Doc. 4826, *A. L. Connelly et al.* v. *L. W. Anderson et al.* Affirmed June 30, 1928.

1,530,200, Richardson & Coggeshall, System of wiring conduits for building construction, C. C. A., 2d Cir., Doc. 9980, *The Fibre Conduit Co.* v. *The Bankamerica Corp. et al.* Decree reversed in so far as it holds infringement and affirmed where noninfringement held (notice dated July 17, 1928).

1,534,196. (See 1,353,197.)

1,547,117. (See 1,422,759.)

1,553,198, H. Stern, Jewelry, appeal filed July 11, 1928, C. C. A., 2d Cir., Doc. 10105, *H. Stern* v. *M. Alpern.*

1,561,836, N. Q. Donnelly, Apron, filed June 8, 1928, D. C. Conn. (New Haven), Doc. 1959, *Donnelly Garment Co.* v. *Waterbury Apron & Underwear Co. et al.* Same, D. C., S. D. N. Y., Doc. E 45/1313, *Donnelly Garment Co.* v. *J. Bum et al.* Patent sustained and infringed July 13, 1928.

1,577,030, A. S. Howell, Intermittent-feed mechanism; 1,620,726, same, Motion-picture camera, filed July 10, 1928, D. C., S. D. Iowa (Davenport), Doc. 4101, *The Bell & Howell Co.* v. *Victor Animatograph Co.*

1,590,982, E. B. Morris, Farrowing house, appeal filed July 7, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 8252, *Western Silo Co., Ltd., et al.* v. *E. B. Morris et al.*

1,598,874, L. A. Phelan, Electrical apparatus, filed July 18, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2336, *Absolute Con-Tac-Tor Corp. et al.* v. *Crumblet Engineering Corp. et al.*

1,598,903. (See 1,206,742.)

1,601,575, L. C. Marshall, Piston packing, filed May 1, 1928, D. C. Conn. (New Haven), Doc. 1956, *The Simplex Piston Ring Co. of America, Inc.*, v. *The Replacement Parts Co.* Doc. 1957, *The Simplex Piston Ring Co. of America, Inc.*, v. *J. M. Washburn (Miracle Auto Parts Co.).*

1,609,165, 1,661,891, C. B. Gilmore, Hood latch, filed May 23, 1928, D. C. Conn. (New Haven), Doc. 1958, *Chicago Forging & Mfg. Co.* v. *The Bassick Co.*

1,620,726. (See 1,577,030.)

1,625,420, C. T. Patterson, Moisture guide for incubator, filed July 16, 1928, D. C. of N. D. (Fargo), Doc. 426, *C. T. Patterson et al.* v. *R. L. Gillis.*

1,646,086, R. G. Fleming, Ash stand, D. C. Conn. (New Haven), Doc. 1938, *Smokador Mfg. Co., Inc.*, v. *Tubular Products Co.* Dismissed July 18, 1928.

1,647,396, A. G. Decker, Rotary tool with key pocket, filed July 12, 1928, D. C., S. D. N. Y., Doc. E 46/17, *The Black & Decker Mfg. Co.* v. *Miller's Falls Co.*

1,659,496, Olshei & Heuber, Windshield wiper, filed July 19, 1928, D. C. Mass., Doc. E 2993, *Trico Products Corp.* v. *Apco Mossberg Corp.*

1,661,891. (See 1,609,165.)

1,666,809, W. J. Butler, Cigar lighter, filed July 6, 1928, D. C. Conn. (New Haven), Doc. 1966, *H. Lederer & Bro., Inc.*, v. *S. S. Kresge Co., Inc.*

1,669,937, W. Hertzberger, Mop mounting, filed July 14, 1928, D. C., S. D. N. Y., Doc. E 46/27, *W. Hertzberg* v. *Maxwell Brushes, Inc.*

Re. 15,502. (See 1,405,773.)

Re. 15,607, A. Vallot, Device for mounting headlights on motor cars; 1,501,704, O. H. Clark, Spot or search light assembly, C. C. A., 8th Cir. (St. Louis), Doc. 8248, *The Shot-Lite Corp. of America* v. *The Clymer Mfg. Co. et al.* Dismissed July 11, 1928.

Re. 16,322. (See 1,405,773.)

Des. 71,767, F. Schmidt, Goblet, filed July 17, 1928, D. C., S. D. N. Y., Doc. E 46/30, *F. O. Reimer Co., Inc.*, v. *J. Hirsch et al.* (*Hirsch-Malgood Co.*).

Des. 75,629, R. S. Knapp, Pocket lighter, filed July 6, 1928, D. C. Conn. (New Haven), Doc. 1968, *R. S. Knapp et al.* v. *The Beardsley Mfg. Co.*

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 18, 1928.

[VOL. 374. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 251,560. JEDDO-HIGHLAND COAL COMPANY, Jeddo, Pa. Filed July 6, 1927.



No claim is made to the exclusive use of any of the wording on said trade-mark.
For Coal.
Claims use since Apr. 1, 1927.

Ser. No. 269,534. J. M. MCCULLOUGH'S SONS CO., Cincinnati, Ohio. Filed July 13, 1928.

EdenPark

For Lawn-Grass Seed.
Claims use since June, 1923.

Ser. No. 269,535. J. M. MCCULLOUGH'S SONS CO., Cincinnati, Ohio. Filed July 13, 1928.

WASHINGTON PARK

For Lawn-Grass Seed.
Claims use since June, 1923.

Ser. No. 269,661. HUNT-RANKIN LEATHER CO., Boston, Mass. Filed July 16, 1928.

PERMALOID

For Leathers.
Claims use since Jan. 3, 1928.

Ser. No. 269,727. FLOATSTONE PRODUCTS COMPANY, Las Vegas, Nev. Filed July 17, 1928.

FLOATSTONE

For Diatomaceous Earth in the Natural State and in a Cleaned and Purified Condition for Various Uses in the Arts.
Claims use since June 23, 1928.

CLASS 2.

Receptacles.

Ser. No. 270,365. BRIGHTON MILLS, Allwood, N. J.; Shannon, Ga.; and Passaic, N. J. Filed July 31, 1928.

BRIGHTONET

For Netted Woven Cord Laundry Bags of Cotton.
Claims use since Oct. 15, 1927.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 245,218. REGINALD JOHN HOOTON HOPE, doing business as Hope, Hartope & Co., London, England. Filed Mar. 4, 1927.

"KOMPOSILL"

For Materials for Cleaning Surfaces of Furniture and of Motor Cars.
Claims use since May, 1926.

Ser. No. 246,317. VANIVA PRODUCTS COMPANY, INC., New York, N. Y. Filed Mar. 24, 1927.

VANIVA

For Shaving Creams Adapted for Use as a Stimulant and Conditioner of the Skin and as an Aid to Shaving the Beard from the Skin.
Claims use since Feb. 18, 1927.

Ser. No. 258,717. MORTIMER K. BRIGSTOCKE, Catskill, N. Y. Filed Dec. 10, 1927.

VEL-VO

For Nickel, Silver, Aluminum, and Glass Polish.
Claims use since about Oct. 1, 1920.

Ser. No. 261,800. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Feb. 17, 1928.



The drawing is shaded to show the colors dark blue, greenish blue, and gold, the solid black lines representing gold, the closely-arranged shade lines representing dark blue, and the widely-spaced shade lines representing greenish blue.
For Soaps Including Toilet Soaps, Shaving Sticks.
Claims use since May, 1927.

Ser. No. 266,706. ISADOR BARNETT, doing business as Barnett Janitor Supply Co., New York, N. Y. Filed May 21, 1928.



For Metal-Polishing Cream, Soap Powder for Grime and Dust, Scouring Powder, and Cleaning Powder for Grime, Rust, and Dirt, All for Household Cleansing.
Claims use since June 12, 1927.

Ser. No. 266,871. JUAN MANUEL GARCIA Y MIRANDA, Madrid, Spain. Filed May 23, 1928.



Applicant disclaims all of the wording appearing on the drawing.
For Soaps.
Claims use since 1927.

Ser. No. 267,286. M. O. WILKINS CORPORATION, New York, N. Y. Filed May 31, 1928.

KAL

For General Household Cleaning Preparation.
Claims use since Mar. 6, 1928.

Ser. No. 268,817. JAMES H. ROSENHEIM, doing business as Littlejim Co., Bluefield, W. Va. Filed June 28, 1928.

NOT A POLISH
Littlejim
CLEANER

The words "Not a Polish" and "Cleaner" are disclaimed apart from the other features of the mark shown in the drawing.
For Cleaning Preparation in Several Forms, Liquid, Paste, and Soap Form.
Claims use since June 1, 1928.

Ser. No. 268,898. THE WILBERT PRODUCTS CO., INC., New York, N. Y. Filed June 29, 1928.

DRY ZIT CLEANER

The words "Dry Cleaner" are disclaimed apart from the mark shown on the drawing.
For Dry-Cleaning Fluid for Removing Spots from Fabrics and Clothing.
Claims use since Apr. 16, 1928.

Ser. No. 269,067. THE ABBOTT FINISHING CORPORATION, Wakefield, Mass. Filed July 5, 1928.

PERI-GLO

For Preparations for Polishing or Softening Leather.
Claims use since June 16, 1928.

Ser. No. 269,142. PARKER-REGAN CORPORATION, San Francisco, Calif. Filed July 5, 1928.



For Chemically-Impregnated Polishing Dust Cloths.
Claims use since June 11, 1928.

Ser. No. 269,434. RALPH W. E. SOUTHWORTH, doing business as The Magic Swan Co., Tuckahoe, N. Y. Filed July 11, 1928.



The horizontally-lined shading indicates blue.
For Nonsaponaceous Liquid Dry Cleaner.
Claims use since June 16, 1928.

Ser. No. 269,686. THE PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed July 16, 1928.

Kwiksolv

The lining on the drawing is for purposes of shading and does not indicate color.
For Soap.
Claims use since Mar. 18, 1925.

Ser. No. 269,687. THE PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed July 16, 1928.

CRYSTAL BLANCO

For Soap.
Claims use since Apr. 6, 1921.

Ser. No. 270,384. MID-STATES CHEMICAL COMPANY, INC., St. Louis, Mo. Filed July 31, 1928.

BONOL

For Liquid Dry Cleaner.
Claims use since Apr. 2, 1928.

Ser. No. 270,615. ADOLPHUS H. STINES, West Asheville, N. C. Filed Aug. 4, 1928.

"Stine-O-Clene"

For Soap.
Claims use since July 14, 1928.

Ser. No. 270,747. HOWARD JOHNSON, doing business as Arima Soap Paste Co., Bethlehem Pa. Filed Aug. 8, 1928.

ARIMA SOAP PASTE

The words "Soap" and "Paste" are not claimed apart from the mark shown.
For Soap Paste.
Claims use since June 11, 1928.

Ser. No. 270,941. PERMANIZING STATIONS OF AMERICA, INC., Denver, Colo. Filed Aug. 13, 1928.

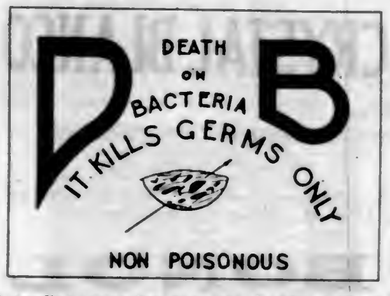
permanize

For Cleaner for Automobile Bodies, Painted, Varnished, and Other Surfaces.
Claims use since Dec. 1, 1926.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 249,266. LLEWELLYN GOODE DUGGAR, Hope Hull, Ala. Filed May 20, 1927.



All wording appearing upon the drawing with the exception of the letters "D B" is hereby disclaimed.
For Disinfectant.
Claims use since Feb. 20, 1927.

Ser. No. 250,935. MOURAT MOURATOGLOU, Weirton, W. Va. Filed June 22, 1927.



The portrait forming a feature of trade-mark is that of applicant. The words "Liniment for Rheumatism" are hereby disclaimed.
For Ointment for Rheumatism.
Claims use since June 19, 1927.

Ser. No. 261,533. SWINEX COMPANY, Cedar Rapids, Iowa. Filed Feb. 10, 1928.

SWINEX

For Hog Tonics and Appetizers.
Claims use since Apr. 15, 1925.

Ser. No. 261,803. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Feb. 17, 1928.



The drawing is shaded to show the colors dark blue, greenish blue, and gold, the solid black lines representing gold, the closely-arranged shade lines representing dark blue, and the widely-spaced shade lines representing greenish blue.
For Eau de Cologne Water, Perfumery, Hair Tonics, Shampoo, Pomade, Brilliantine, Cold Cream, Vanishing Cream, Rouge, Face Powder, Baby Powder, Shaving Lotion for Use After Shaving, Tooth Paste, Mouth Wash, Head Tonics, Ethereal Oils for Perfumes.
Claims use since May, 1927.

Ser. No. 262,266. DIONISIA SCOCOS, doing business as The Soterion Co., New York, N. Y. Filed Feb. 25, 1928.

SOTERION

For a Medicinal Preparation to be Applied Externally as an Ointment for the Relief of Rheumatic Pains in the Joints and Muscles, Also for Neuralgia.
Claims use since Jan. 1, 1928.

Ser. No. 263,296. WILSON-IMPERIAL COMPANY, Newark, N. J. Filed Mar. 16, 1928.

IMPERIAL

For Material for Dedyeing and Renovating Plush.
Claims use since Apr. 10, 1900.

Ser. No. 263,914. BAROUH HERMANOS, Habana, Cuba. Filed Mar. 29, 1928.

MERRY CHRISTMAS

For Perfumes, Toilet Powders, and Toilet Waters.
Claims use since about January, 1926.

Ser. No. 265,212. HALOSINE COMPANY, Philadelphia, Pa. Filed Apr. 21, 1928.

halosine

For Antiseptic Deodorant Prophylactic in Liquid and Powder Form, Scalp Tonic; Dentifrice, After-Shaving Lotion, and Talcum Powder.
Claims use since Mar. 20, 1928.

Ser. No. 266,231. THE WEINBERGER DRUG COMPANY, doing business as The Kotar Chemical Company, Cleveland, Ohio. Filed May 10, 1928.

KOTAR

For Nerve Tonic, Blood Purifier, Appetite Increaser, and General Body-Building Tonic.
Claims use since Jan. 1, 1926.

Ser. No. 266,450. MANUEL ALEXIADES, Madrid, Spain. Filed May 16, 1928.

Antibyxina Alex

For Preparation to be Used by Injection in Treating Phthisis, Catarrh, Bronchitis, Pneumonia, Pleurisy, Tuberculosis, and Congestion of the Respiratory Tracts.
Claims use since Dec. 5, 1925.

Ser. No. 266,763. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed May 21, 1928.





No claim is made to the representations of the labels per se. No claim is made to the printed matter other than the words "Mistol" and "Nujol." The drawing is lined for shading only. Applicant is the owner of registered Trade-Mark No. 153,889.
For Nose and Throat Spray.
Claims use since Apr. 9, 1928.

Ser. No. 267,707. JOHN J. HARRIS, doing business as No Equal Products Co., Chicago, Ill. Filed June 8, 1928.

NO EQUAL



No exclusive right is claimed to the words "No Equal" except for the association forming the trade-mark. The portrait shown is fanciful.
For Dentifrices, Dental Creams, Tooth Pastes, and Mouth Washes.
Claims use since Dec. 2, 1927.

Ser. No. 267,931. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1928.

Stibenyl

For a Medicinal Preparation for Tropical Disorders and Febrile Diseases of the Temperate Zones—Namely, Malaria, Sleeping Sickness, Bilharziasis, Leprosy, Venereal Granuloma, Encephalitis, and Multiple Sclerosis.
Claims use since Nov. 9, 1922.

Ser. No. 267,932. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1928.

Stibosan

For a Medicinal Preparation for Venereal and Tropical Diseases—Namely, Syphilis, Leishmaniasis, Kalaazar, Bilharziasis, Granuloma Venereum, Sleeping Sickness, Trypanosomiasis of Animals, Filariasis, Leprosy, Spirillosis, Epidemic Encephalitis, Multiple Sclerosis, and Malaria.
Claims use since Feb. 16, 1925.

Ser. No. 268,051. WADE H. MCCREE, doing business as McCree Products Company, Chicago, Ill. Filed June 14, 1928.



The words "Goosgrease Sav" are disclaimed apart from the mark shown. The portrait shown is merely fanciful.
For Healing Salves for External Application.
Claims use since Nov. 15, 1927.

Ser. No. 268,260. A/S SI-KO, Oslo, Norway. Filed June 19, 1928.



For Tooth Paste.
Claims use since Jan. 1, 1926.

Ser. No. 268,561. THE CHARLES H. PHILLIPS CHEMICAL COMPANY, Glenbrook, Conn., and New York, N. Y. Filed June 23, 1928. Under 10-year proviso.

THE CHAS. H. PHILLIPS CHEMICAL CO.

For Preparation of Magnesia.
Claims use since Mar. 7, 1885.

Ser. No. 268,797. GEORGE MCCLOSKEY, doing business as G. McC. Company, New Orleans, La. Filed June 28, 1928.


Got U Bug

No claim is made to the word "Bug" apart from the mark as shown.
For Insecticides.
Claims use since Mar. 1, 1928.

Ser. No. 268,895. UNIQUE MANUFACTURING CO., Tacony, Philadelphia, Pa. Filed June 29, 1928.



No claim is made to the exclusive use of the words "Pen Clean" alone and apart from the mark shown in the drawing, reserving, however, all common-law rights.
For Ink-Removing Fluid.
Claims use since Aug. 5, 1927.

Ser. No. 268,922. GODEFROY MANUFACTURING COMPANY, St. Louis, Mo. Filed June 30, 1928.

Peaudouce

For Skin Cream.
Claims use since about October, 1895.

Ser. No. 268,987. PHILIP MAROCHINI, doing business as Marochini Chemical Company, Chicago, Ill. Filed July 2, 1928.

LAYMOL



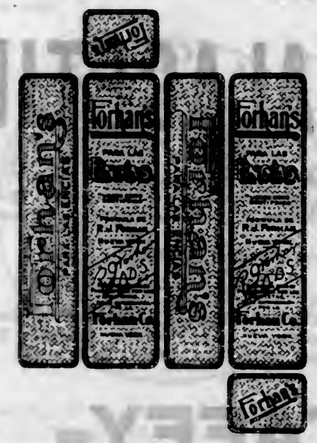
The portrait forming a feature of the trade-mark sought to be registered is fanciful.
For Hairdressing Preparation.
Claims use since Jan. 1, 1928.

Ser. No. 269,056. PNEUMO-PHTHYSINE CHEMICAL MANUFACTURING COMPANY, Chicago, Ill. Filed July 3, 1928.

NEUMOTISINA

For Pharmaceutical Products—Namely, Ethical Medicinal Preparation for Pneumonia, Bronchitis, Pleurisy, Phthisis, and Whooping Cough, and Other Pulmonary Ailments; Typhoid Fever and Other Febrile Toxemias.
Claims use since May 25, 1928.

Ser. No. 269,063. FORHAN COMPANY, New York, N. Y. Filed July 3, 1928.



The signature appearing on the drawing is a facsimile signature of Dr. R. J. Forhan, D. D. S., the president of the applicant corporation. The lining upon the drawing indicates the colors orange and red. Without waiver of its common-law rights the applicant disclaims the exclusive right to the representation of a carton and to all the wording appearing upon the drawing filed with the exception of the words "Forhans," "Forhan Co.," and "R. J. Forhan D. D. S."
For Pyorrhea Preparation and Dentifrice.
Claims use since Sept. 1, 1915.

Ser. No. 269,260. RUSSIA CEMENT COMPANY, doing business as The Rabalm Company, Gloucester, Mass. Filed July 7, 1928.

RABALM

For Healing Salves and Ointments, Liniments for the Treatment of Rheumatism, Lumbago, Neuralgia, and Kindred Ailments, Skin Lotions, Antiseptics, and Disinfectants.
Claims use since May 8, 1926.

Ser. No. 269,372. E. R. SQUIBB & SONS, New York, N. Y. Filed July 10, 1928.

Vitavose

For Vitaminous Dietary Supplement.
Claims use since May 19, 1927.

Ser. No. 269,617. THE VISCO CHEMICAL PRODUCTS COMPANY, Cleveland, Ohio. Filed July 14, 1928.

PIPE-flo

For Chemical for Opening and Cleansing Drains, Sinks, Washbowls, and the Like.
Claims use since June 1, 1928.

Ser. No. 269,641. O. W. DEAN, doing business as Korodyne Company, St. Joseph, Mich. Filed July 16, 1928.

Korodyne

For Preparation for the Treatment of Asthma.
Claims use since Nov. 1, 1927.

Ser. No. 269,650. M. M. FLERON & SON, INC., doing business as Bercy Laboratories, Trenton, N. J. Filed July 16, 1928.

BANDOL



For Hairdressing.
Claims use since June 28, 1928.

Ser. No. 269,669. ANTONIO LENTINO, doing business as Quinolive Company, Boston, Mass. Filed July 16, 1928.

QUINOLIVE

For Hair Tonic.
Claims use since Jan. 19, 1928.

Ser. No. 269,702. WELLER BROTHERS, Shamokin, Pa. Filed July 16, 1928.

CASTORLAX

For Laxative Gum.
Claims use since Jan. 1, 1926.

Ser. No. 269,941. CALIFORNIA REX SPRAY CO., Benicia, Calif. Filed July 21, 1928.

POI GRA

For Preparation for Destroying Rodents.
Claims use since about July 1, 1927.

Ser. No. 270,044. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 23, 1928.

LIPO-LUTIN

For Lipoidal Extract for the Treatment of Amenorrhea and Scanty Menstruation.
Claims use since Jan. 4, 1928.

Ser. No. 270,143. G. N. PAPPAS, doing business as Sterolic Salve Company, Atlanta, Ga. Filed July 25, 1928.

STEROLIC

For Salve for the Treatment of Itch, Piles, Burns, Cuts, and Eczema.
Claims use since May, 1925.

Ser. No. 270,210. SEYDEL-WOOLLEY COMPANY, Atlanta, Ga. Filed July 26, 1928.

SEYCO

For a Sizing Compound Used by Cotton Mills as a Cotton Softener.
Claims use since Jan. 1, 1924.

Ser. No. 270,484. HOLLINGS-SMITH CO., Orangeburg, N. Y. Filed Aug. 2, 1928.

SALACETIN

For Medicine for the Treatment of Pain, Fever, Fermentation, Lithemic Conditions, Rheumatism, Neuralgias, Grippe, Tonsilitis, Dysmenorrhea, Colic, Cramps, and Headache.
Claims use since Feb. 6, 1895.

Ser. No. 270,529. CHARLES F. AMPT, doing business as The Charles F. Ampt Company, Columbia Township, Hamilton County, Ohio. Filed Aug. 3, 1928.

TAFFY-LAX

The word "Taffy" being disclaimed apart from the mark shown in the drawing.
For Medicated Candy Used as a Gentle Cathartic.
Claims use on or about June 28, 1928.

Ser. No. 270,613. SILVER MOON COMPANY, INC., New Orleans, La. Filed Aug. 4, 1928.

Silver Moon

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since July 3, 1928.

Ser. No. 270,656. MAUDE H. SPANGLER, doing business as Star Spangler Mfg. Co., Birmingham, Ala. Filed Aug. 6, 1928.

STAR SPANGLER

For Reducing Cream.
Claims use since July 20, 1928.

Ser. No. 270,757. THE RESINOUS PRODUCTS AND CHEMICAL COMPANY, Philadelphia, Pa. Filed Aug. 8, 1928.

For Synthetic or Chemically-Prepared Resins.
Claims use since Jan. 15, 1927.

Ser. No. 270,773. DUANE MEREDITH, Wichita Falls, Tex. Filed Aug. 8, 1928.

Corpora Lutuitaria

For Serum for the Treatment of Tuberculosis.
Claims use since June 1, 1928.

Ser. No. 270,844. JOHN HEILAND CO., Chicago, Ill. Filed Aug. 10, 1928.

223072

For Medicine for the Treatment of Gonorrhea and Gleet.
Claims use since Apr. 4, 1907.

Ser. No. 270,845. JOHN HEILAND CO., Chicago, Ill. Filed Aug. 10, 1928.

223073

For Medicine for the Treatment of Gonorrhea, Gleet, Stricture, and Prostatic Diseases.
Claims use since Apr. 4, 1907.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 268,776. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn. Filed June 28, 1928.

PIPE-A-DOR

The word "Pipe" is disclaimed apart from the mark as shown in the drawing.
For Tobacco Containers, Tobacco-Pipe Holders, and Combination Tobacco Containers and Tobacco-Pipe Holders.
Claims use since about May 15, 1928.

Ser. No. 270,977. JOHN WILLIAM ROGOSKI, Los Angeles, Calif. Filed Aug. 13, 1928.

Cuyo Radiette

For Humidors.
Claims use since May 22, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 270,870. AMTORG TRADING CORPORATION, New York, N. Y. Filed Aug. 11, 1928.

PROMETEVS

For Matches.
Claims use since Aug. 1, 1928.

Ser. No. 270,871. AMTORG TRADING CORPORATION, New York, N. Y. Filed Aug. 11, 1928.

KREMALITE

For Matches.
Claims use since Aug. 1, 1928.

CLASS 10.

Fertilizers.

Ser. No. 267,960. INTERNATIONAL AGRICULTURAL CORPORATION, New York, N. Y. Filed June 13, 1928.

CARIBEE

For Fertilizers.
Claims use since Feb. 17, 1927.

CLASS 12.

Construction Materials.

Ser. No. 258,740. ROBERT L. FRINK, Lancaster, Ohio. Filed Dec. 10, 1927.

FRINKITE

For Refractories and Refractory Materials—Namely, Tank and Furnace Blocks, Either of Rectangular or Special Form, Such as Skewback Blocks and Port Blocks, and Powdered Material Comprising Sillimanite or Mullite for Making the Same.
Claims use since on or about July 1, 1927.

Ser. No. 265,864. THE VICTOR PARTING BEAD CO., INC., Reading, Pa. Filed May 3, 1928.

VICTOR

For Weather Strips, Screen Doors, and Complete Framed Fly Screens.
Claims use since 1921.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 263,513. REPCAL BRASS MFG. CO., Los Angeles, Calif. Filed Mar. 20, 1928.

Hushflush

For Toilet Fixtures, Valves, and Plumbing Supplies Comprising Metal Toilet Flush Valves, Handles, Flush Connections, Spud Couplings, Wall Flanges, Spud Reducers, Elbow Flush Connections, Valve Bumpers, and Open-Seat Bumpers.
Claims use since Nov. 1, 1925.

Ser. No. 269,783. HOOKLESS FASTENER COMPANY, Meadville, Pa. Filed July 18, 1928.

TALON SLIDE FASTENER

The words "Slide Fastener" and the representation of a fastener are disclaimed apart from the mark as shown in the drawing.
For Separable Fasteners of the Slider-Controlled Type.
Claims use since July 14, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 267,890. FRIED. KRUPP AKTIENGESELLSCHAFT, Essen-on-the-Ruhr, Germany. Filed June 12, 1928.

Widia

For Metallic Carbides and Their Alloys.
Claims use since Jan. 1, 1926.

Ser. No. 268,344. GENERAL ALLOYS COMPANY, Boston Mass. Filed June 20, 1928.

NI-CRO-AL

For Castings of Metal Alloys.
Claims use since Jan. 3, 1928.

Ser. No. 269,874. UNIVERSAL FOUNDRY CO., Oshkosh, Wis. Filed July 19, 1928.

UNIVERSAL UF

For Gray-Iron Castings for All Types of Motors and Machinery.
Claims use since May 1, 1928.

CLASS 15.

Oils and Greases.

Ser. No. 268,188. TEXAS PACIFIC COAL AND OIL COMPANY, Fort Worth, Tex. Filed June 16, 1928.

AERO ENGINE LUBRICATING OIL

ALL WEATHER AERO OIL

No registration rights are claimed in the words "Aero Engine Lubricating Oil" and "All Weather Aero Oil" except in association with the other features of the mark.
For Lubricating Oils.
Claims use since Apr. 1, 1928.

Ser. No. 268,718. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed June 26, 1928.

SUNSET

For Lubricating Oils, Waxes, and Greases.
Claims use since Sept. 1, 1914.

Ser. No. 268,748. QUAKER OIL COMPANY, INC., Plainfield, Ind. Filed June 27, 1928.

QUAKER OIL CO Plainfield, Ind.

Applicant disclaims the use of the words "Plainfield, Ind." apart from the mark shown in the drawing.
For Motor-Lubricating Oils, Gasoline, and Kerosene.
Claims use since January, 1918.

Ser. No. 268,850. DEARBORN CHEMICAL COMPANY, Chicago, Ill. Filed June 29, 1928.

Dearco

For Motor-Lubricating Oils.
Claims use since October, 1925.

Ser. No. 268,900. AIR-WAY MOTOR OIL COMPANY, Chicago, Ill. Filed June 30, 1928.

AIR-WAY

For Lubricating Oils and Greases.
Claims use since May 1, 1928.

Ser. No. 269,065. QUAKER OIL COMPANY, INC., Plainfield, Ind. Filed July 3, 1928.

QUAKER "A"

For Motor-Lubricating Oil.
Claims use since January, 1916.

Ser. No. 269,200. PARAGON OIL COMPANY, INC., Glendale, N. Y. Filed July 6, 1928.

PARACO

For Gasoline Motor-Lubricating Oils and Lubricating Oils and Greases.
Claims use since Dec. 15, 1927.

Ser. No. 269,203. PARAGON OIL COMPANY, INC., Glendale, N. Y. Filed July 6, 1928.

ParOyle

For Gasoline, Motor-Lubricating Oils, and Lubricating Oils and Lubricating Greases.
Claims use since Dec. 15, 1927.

Ser. No. 269,217. AMERICAN OIL CORPORATION, Jackson, Mich. Filed July 7, 1928.

SAVAPOWR

For Lubricating Oils, Lubricating Greases, and Lubricating Compounds.
Claims use since about Dec. 1, 1920.

Ser. No. 269,895. GENERAL PETROLEUM CORPORATION OF CALIFORNIA, San Francisco, Calif. Filed July 20, 1928.

VIOLET RAY

For Gasoline.
Claims use since June 20, 1928.

Ser. No. 270,306. SUN OIL COMPANY, Philadelphia, Pa. Filed July 28, 1928.

LXXXIX

For Lubricating Oil.
Claims use since on or about July 9, 1928.

Ser. No. 270,355. SKELLY OIL COMPANY, Tulsa, Okla. Filed July 30, 1928.

AROMAX

For Gasoline.
Claims use since July 1, 1928.

Ser. No. 270,385. MID-WEST OIL COMPANY, Kansas City, Kans. Filed July 31, 1928.

PENN-AERO

No registration rights are claimed in the word "Aero" except in association with the other features of the mark.
For Lubricating Oils.
Claims use since June 15, 1928.

Ser. No. 270,522. STERLING OIL COMPANY, Emlenton, Pa. Filed Aug. 2, 1928.

100 PURE
PENNSYLVANIA
OIL
Made from the highest grade crude oil in the world

No claim being made to the wording on the drawing apart from the mark as shown.
For Lubricating Oils, Illuminating Oils, Gasoline, Naphtha, and Lubricating Greases.
Claims use since May 1, 1924.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 234,380. CROWN PAINT & COLOR WORKS, Los Angeles, Calif. Filed July 10, 1926.

CALIFORNIA CROWN

For Dry, Paste, and Ready-Mixed Paints, Varnishes, Paint Enamels, Paint Pigment, Lacquers, Lead in Oil, Zinc in Oil, Linseed Oil, Turpentine, Varnish Stains, Oil Stains, Colors in Oil, Thinners, Fillers, Shellac, and Paint Oil.
Claims use since June 1, 1924.

Ser. No. 266,856. EDWARD EBACK, doing business as Eback Mfg. Co., Indianapolis, Ind. Filed May 23, 1928.

EBCO
Super Speed

For an Automobile Cleaning and Polishing Liquid.
Claims use since Jan. 1, 1928.

Ser. No. 269,188. GUSTAV GILBERT, doing business as Art Importing Co., Philadelphia, Pa. Filed July 6, 1928.

FOINET

For Artists' Oil Colors.
Claims use since September, 1926.

Ser. No. 270,431. MARTIN VARNISH COMPANY, Chicago, Ill. Filed Aug. 1, 1928.

PRESERVAR

For Varnishes.
Claims use since Apr. 15, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 270,377. L. HARRIS COMPANY, Pittsburgh, Pa. Filed July 31, 1928.

THE "BANK" 5¢ 5¢ OF PITTSBURGH

Applicant disclaims the use of the characters "5¢" and the words "Of Pittsburgh" apart from the mark shown in the drawing.
For Cigars and Stogies.
Claims use since January, 1926.

Ser. No. 270,725. ROTHENBERG & SCHLOSS CIGAR CO., Kansas City, Mo. Filed Aug. 7, 1928.

CHESTER ARMS

For Cigars.
Claims use since July 5, 1928.

Ser. No. 270,807. STARLIGHT & SON, New York, N. Y. Filed Aug. 9, 1928.

For Cigars.
Claims use since July 25, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 269,214. F. A. WHITNEY CARRIAGE COMPANY, Leominster, Mass. Filed July 6, 1928.

Fashioned by F. A. WHITNEY CARRIAGE CO. LEOMINSTER, MASS. *Whitney*

The lining on the drawing indicates a red color, which is the color preferably employed, but color in itself is not of the essence of the trade-mark. The specific geographical designation "Leominster, Mass." is disclaimed as such. Applicant disclaims the words "Fashioned by" apart from the association and relation in which they appear in the specimens and drawing.
For Light Vehicles—Namely, Baby Carriages Generically and Children's Carriages Generically.
Claims use since May 18, 1928.

Ser. No. 269,649. FAIRCHILD AVIATION CORPORATION, New York, N. Y. Filed July 16, 1928.

FAIRCHILD AERO

For Motor Boats.
Claims use since May 27, 1928.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 266,042. MAYFAIR TEXTILE CORPORATION, New York, N. Y. Filed May 24, 1928.

MAYTEX
PRACT / CLOTH

The word "Cloth" is disclaimed separate and apart from the mark as shown on the drawing.
For Table Cloths, Napkins, Scarfs, and Shelving Made of a Cotton Sheeting Coated with Pyroxylin and Embossed with Suitable Patterns.
Claims use since May 18, 1928.

CLASS 21.

Electrical Apparatus, Machines and Supplies.

Ser. No. 256,604. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn. Filed Oct. 26, 1927.

"FOURSOME"

For Multiple Electric Connecting Devices.
Claims use since about Oct. 24, 1927.

Ser. No. 261,748. FEDERAL DISTRIBUTING COMPANY, Newark, N. J. Filed Feb. 16, 1928.

Jewel

For Incandescent Lamps.
Claims use since Jan. 17, 1927.

Ser. No. 268,585. JOSEPH H. COHEN, doing business as The Perfection Motor Products Company, Bridgeport, Conn. Filed June 25, 1928.

RED HEAD

For Electric Cigar Lighters.
Claims use since about Apr. 15, 1928.

Ser. No. 268,710. SYLVANIA PRODUCTS COMPANY, Emporium, Pa. Filed June 26, 1928.



For Radio Electron Tubes and Electric Lamps.
Claims use since June 1, 1927.

Ser. No. 268,728. BAKERS SUPPLY & EQUIPMENT CO., St. Paul, Minn. Filed June 27, 1928.

Sunlite Electrik

The word "Electrik" is disclaimed apart from the mark shown in the drawing.
For Electric Bake Ovens.
Claims use since June 1, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 266,730. JOSEPH P. HAWKEY, Philadelphia, Pa. Filed May 21, 1928.

Magic Chalk

No claim is made to the word "Chalk" apart from the mark shown.
For Novelty Transfer Crayons.
Claims use since Apr. 1, 1918.

Ser. No. 269,787. IDEAL NOVELTY & TOY CO., Brooklyn, N. Y. Filed July 18, 1928.

Peter Pan

For Dolls.
Claims use since June 4, 1928.

Ser. No. 270,006. ADRIANO A. BISSIRI, doing business as B. C. Ree Co., Los Angeles, Calif. Filed July 23, 1928.

BLOPLANE

For Foldable Toy Aeroplanes Propelled from a Blowpipe.
Claims use since June 1, 1928.

Ser. No. 270,508. MILAN B. ROBERTS, Flint, Mich. Filed Aug. 2, 1928.

WINGDOWN

For Artificial Bait.
Claims use since August, 1923.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 267,853. PAUL MÜLLER, Solingen, Germany. Filed June 11, 1928.

MULCUTO

For Razors and Blades Therefor.
Claims use since Dec. 2, 1909.

Ser. No. 269,614. STICKELS & MAGNUSON AKTIEBOLAG, Stockholm, Sweden. Filed July 14, 1928.

STICK-TO

For Drill Chucks, Drills, Hammers, and Razor Blades.
Claims use since March, 1926.

Ser. No. 269,031. ALLEN AIR APPLIANCE COMPANY, INC., New York, N. Y. Filed July 21, 1928.

TRIPLE A

For Pneumatic Apparatus and Equipment—Namely, Blowers, Centrifugal and Rotary; Air Pumps, Vacuum and Pressure; Vacuum Cleaners, Portable and Stationary; Vacuum Drying Systems, Dust-Handling Systems, and Parts Thereof.
Claims use since July 1, 1928.

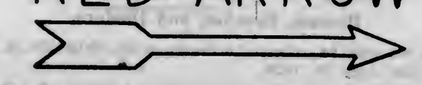
Ser. No. 270,710. GEORGE W. LUBOW, New York, N. Y. Filed Aug. 7, 1928.

Wanie

For Razor Blades.
Claims use since June 4, 1928.

Ser. No. 270,735. W. O. BARNES CO. INC., Detroit, Mich. Filed Aug. 8, 1928.

RED ARROW



For Saws.
Claims use since Feb. 5, 1927.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 268,595. FORD MOTOR COMPANY, Fordson, Mich. Filed June 25, 1928.

Ford

Applicant is owner of registrations No. 74,530, issued July 20, 1909; No. 74,765, issued Aug. 10, 1909; No. 101,934, issued Jan. 19, 1915; and No. 115,500, issued Feb. 20, 1917.
For Speedometers, Ammeters, and Parts of the Foregoing, and Motion-Picture Films.
Claims use since 1914 on films, since 1919 on ammeters and parts and accessories, and since Dec. 1, 1927, on speedometers.

Ser. No. 270,450. UNIVERSAL PICTURES CORPORATION, New York, N. Y. Filed Aug. 1, 1928.

OSWALD
THE LUCKY RABBIT

For Series of Animated Motion-Picture Cartoons.
Claims use since Sept. 5, 1927.

Ser. No. 270,658. WALTER D. WHITCOMB, Portland, Oreg. Filed Aug. 6, 1928.

CHART-A-GRAPH

For Mechanical Graphic Charts.
Claims use since July 1, 1928.

CLASS 27.

Horological Instruments.

Ser. No. 253,960. SIEMENS & HALSKE AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany. Filed Aug. 25, 1927.



For Electric Clocks and Parts Thereof and Watchmen's Time-Indicating Clocks for Watchmen's Control Installations.
Claims use since 1899.

Ser. No. 268,859. FEDERAL MAIL ORDER CORPORATION, New York, N. Y. Filed June 29, 1928.

ULTUS

For Watches, Watch Movements, Watchcases, and Parts Thereof.
Claims use since May 1, 1928.

Ser. No. 268,924. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Filed June 30, 1928.



For Alarm Clocks.
Claims use since June 14, 1927.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 263,810. LEO BABCHIN, New York, N. Y. Filed Mar. 27, 1928.



The picture of the woman is fanciful.
For Indestructible Pearl Necklaces and Strings of Pearls, and Novelty Jewelry, Which Consists of Sets of Matched Earrings, Necklaces, and Bar Pins, and the Like.
Claims use since September, 1927.

Ser. No. 268,686. EVANS CASE COMPANY, North Attleboro, Mass. Filed June 26, 1928.

LUCK-E-BOY

For Brooch Pins.
Claims use since June 20, 1928.

Ser. No. 268,962. BOLOTIN & SHEININ, Chicago, Ill. Filed July 2, 1928.



For Wedding Rings, Ring Mountings, and Diamond Rings.
Claims use since Jan. 1, 1925.

Ser. No. 269,208. SAKS & CO., New York, N. Y. Filed July 6, 1928.



For Silver Tableware, Silver Flatware, and Silver Hollow Ware.
Claims use since 1919.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 268,784. HANLON & GOODMAN CO., Belleville, N. J. Filed June 28, 1928.

TRU-LAY

For Paintbrushes, Varnish Brushes, Wall Brushes, Whitewash Brushes, Kalsomine Brushes, Artists' Brushes, Roof Brushes, Floor Brushes and Counter Dusters, Paste Brushes, Plasterers' Brushes, Billposters' Brushes, and Paper-Hangers' Brushes.
Claims use since about Apr. 19, 1928.

Ser. No. 269,993. E. R. SQUIBB & SONS, New York, N. Y. Filed July 21, 1928.

BEARD-TAMER

For Shaving Brushes.
Claims use since July 20, 1928.

Ser. No. 270,404. WHITING-ADAMS COMPANY, Boston, Mass. Filed July 31, 1928.

WANDO

For Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about July 6, 1928.

CLASS 31.

Filters and Refrigerators.

Ser. No. 269,770. KRISTOL-KOLD COMPANY, Detroit, Mich. Filed July 18, 1928.

"Kristol-Kold"

Applicant does not herein make any claim to the exclusive right to the use of the word "Kold" apart from the mark as shown in the drawing.
For Refrigerators and Refrigerating Apparatus.
Claims use since on or about July 10, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 270,106. CLARENCE M. ANDERSON, Oklahoma City, Okla. Filed July 25, 1928.

Kab-O-File

Applicant disclaims the descriptive word "File" apart from the trade-mark.
For Inclosures for Prescriptions and File Cabinets.
Claims use since June 2, 1927.

Ser. No. 270,534. BURTON-DIXIE CORPORATION, Chicago, Ill. Filed Aug. 3, 1928.

Luxease

For Metal Bed Springs.
Claims use since Aug. 11, 1920.

Ser. No. 270,630. ELLISON FURNITURE & CARPET CO., Fort Worth, Tex. Filed Aug. 6, 1928.

"BUY YOUR BED BY YOUR WEIGHT"

For Mattresses, Bed Springs, Cushions, and Pillows.
Claims use since May 1, 1927.

Ser. No. 270,635. HEXTER BROS., Cleveland, Ohio. Filed Aug. 6, 1928.

Greeteria

For Card-Display Rack.
Claims use since Feb. 1, 1928.

CLASS 33.

Glassware.

Ser. No. 269,521. FORD MOTOR COMPANY, Fordson, Mich. Filed July 13, 1928.

Ford

Applicant is owner of trade-mark registrations Nos. 74,530, 74,765, 98,655, 115,500, 119,956, and 125,702 for the word "Ford."
For Plate Glass and Lenses for Automobiles.
Claims use since Oct. 10, 1914.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 267,375. MINNEAPOLIS-HONEYWELL REGULATOR COMPANY, Wabash, Ind., and Minneapolis, Minn. Filed June 2, 1928.

VAPORTROL

For Limiting Device to Work in Conjunction with a Regulator to Limit the Pressure and Temperature in a Vapor Heating System.
Claims use since November, 1927.

Ser. No. 271,014. YARD-BOY INCINERATOR CO., Chicago, Ill. Filed Aug. 14, 1928.

YARD-BOY

For Incinerator.
Claims use since about July 1, 1927.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 268,438. THE B. F. GOODRICH COMPANY, New York, N. Y. Filed June 21, 1928.

AIRLINE

For Rubber Vehicle Tires.
Claims use since Sept. 20, 1926.

Ser. No. 270,693. WILLIAM DUNCAN, doing business as Python Grip Brake & Equipment Co., Los Angeles, Calif. Filed Aug. 7, 1928.



For Brake Lining.
Claims use since June 1, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 268,015. INTERNATIONAL MUSICAL CORPORATION, Hoboken, N. J. Filed June 14, 1928.

AUTO-BANJO

The word "Banjo" is disclaimed except as used in the trade-mark shown.
For Stringed Musical Instruments Having Cord-Selector Devices for Muting Certain Strings and Allowing Certain Other Strings to Sound When Plucked.
Claims use since on or about May 1, 1928.

Ser. No. 269,114. GRIGSBY-GRUNOW COMPANY, Chicago, Ill. Filed July 5, 1928.

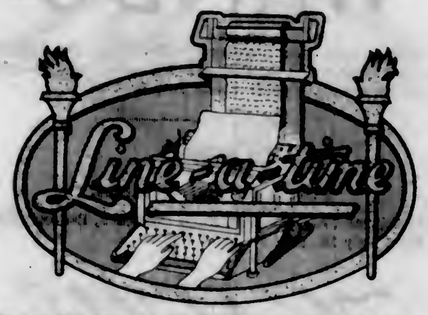
Majestic

For Phonographs and Phonograph Records.
Claims use since June 22, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 260,393. LINE-A-TIME MANUFACTURING COMPANY INCORPORATED, Rochester, N. Y. Filed Jan. 20, 1928.



The lining shown in the typewriter and copyholder portion of the mark represents the shading, the lining forming the background within the oval represents the color red, and the stippled portion of the mark represents gold. No claim is made to the representation of the article including the typewriter and copyholder illustrated apart from the mark as shown.
For Copyholders for Typewriters.
Claims use since Oct. 15, 1926.

Ser. No. 263,052. STANISLAW FLIS, AND MATEUSZ KASPRZAK, Gowanda, N. Y. Filed Mar. 12, 1928.

S.F.M.K.

For Envelopes.
Claims use since Jan. 1, 1928.

Ser. No. 266,429. JAPAN PAPER COMPANY, New York N. Y. Filed May 15, 1928.

SQUARE JP BRAND

Applicant hereby disclaims the monopoly of the word "Brand" apart from the mark as shown.
For Decorative Tissue Paper.
Claims use since May 11, 1928.

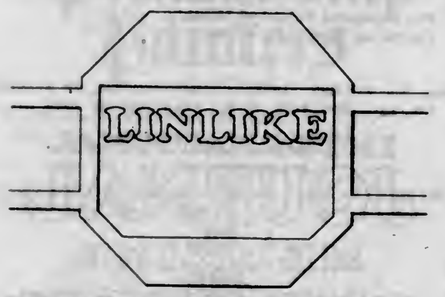
Ser. No. 266,639. ASSOCIATED PAPER COMPANY, Chicago, Ill. Filed May 19, 1928.



No claim is made to the representation of a roll of paper.
For Paper and Paper Products—Namely, Corrugated Cake Circles, Corrugated Paper, Crepe Paper, Doilies,

Correspondence Envelopes, Check Books, Lunch Waxed-Paper Napkins, Paper Towels, Pass Books, Sales Books, Tissue Towels, Shelf Paper, Wrapping Paper, Sign Cardboards, Gummed Tape, Toilet Paper, Tissue Paper, and Waxed Paper.
Claims use since June 7, 1927.

Ser. No. 266,713. CAPITAL PAPER COMPANY, Indianapolis, Ind. Filed May 21, 1928.



For Toilet Paper.
Claims use since Dec. 15, 1927.

Ser. No. 267,238. CAPITAL PAPER COMPANY, Indianapolis, Ind. Filed May 31, 1928.

HOLDTITE

For Wrapping Paper in Rolls, Parchment Paper in Sheets, Fancy Wrapping Paper.
Claims use since Feb. 3, 1924, on paper rolls; since May 10, 1926, on paper parchment sheets; and since Feb. 3, 1927, on fancy paper.

Ser. No. 268,525. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed June 23, 1928.



No exclusive rights to the words and numerals "Finest Satin Tissue 1500 Sheets 5 x 7 Albany, N. Y. U. S. A. Reg. U. S. Pat. Off." per se, is claimed.
For Toilet Paper.
Claims use since May 2, 1928.

Ser. No. 269,155. HUNLEY E. SEATON, doing business as Seaton Products Company, Los Angeles, Calif. Filed July 5, 1928.

PADOGRAPH

For Memorandum Pads, Combined Loose-Leaf Desk Pad and Calendar Holder, and Fillers for Same.
Claims use since May 1, 1928.

Ser. No. 270,463. CHARLES S. CLARK CO., New York, N. Y. Filed Aug. 2, 1928.

The HOSTESS

For Bridge-Prize Wrappings.
Claims use since Feb. 1, 1928.

Ser. No. 270,910. CLIFTON C. ANDREWS, Shaker Heights, Ohio. Filed Aug. 13, 1928.

LAMINART

For Temporary Covers and Binders.
Claims use since June 25, 1928.

Ser. No. 270,932. HAZEN PAPER CO., Holyoke, Mass. Filed Aug. 13, 1928.

PHANTOM

For Coated Book Papers, Coated Box Papers, Ledger Papers, Bond Papers, Book Papers, Wedding Papers, Cover Papers, and Wedding Bristols.
Claims use since June 11, 1927.

CLASS 38.

Prints and Publications.

Ser. No. 231,389. R. H. MACY & CO., INC., New York, N. Y. Filed May 10, 1926.

MACY'S DAILY NEWS-AD

For Subtitle to Newspaper Articles Which Appear Daily.
Claims use since Mar. 22, 1926.

Ser. No. 251,251. JOHN WANAMAKER NEW YORK, New York, N. Y. Filed June 28, 1927.



For Newspaper Column.
Claims use since June 13, 1927.

Ser. No. 261,377. B. NUGENT & BROTHER DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 8, 1928.

NUGENTS SAINT LOUIS SHOPPING BULLETIN

For Publication Issued from Time to Time, Not Less Than Once a Month.
Claims use since Jan. 28, 1928.

Ser. No. 267,549. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y. Filed June 6, 1928.

TELEVISION

For Publication Issued a Number of Times Each Year.
Claims use since Aug. 27, 1927.

Ser. No. 267,668. THE RED STAR NEWS COMPANY, New York, N. Y. Filed June 7, 1928.

DETECTIVE FICTION WEEKLY

No claim is made to the word "Weekly" apart from the mark shown by the drawing.
For Weekly Magazine.
Claims use since June 2, 1928.

Ser. No. 269,076. ASSOCIATION OF NEWSPAPER CLASSIFIED ADVERTISING MANAGERS, St. Louis, Mo. Filed July 5, 1928.

CLASSIFIED JOURNAL

For Monthly Publication.
Claims use since June, 1925.

Ser. No. 270,239. THE DICKENS FELLOWSHIP OF NEW YORK INC., New York, N. Y. Filed July 27, 1928.

The AMERICAN DICKENSIAN

For Periodical Publication.
Claims use since Dec. 1, 1920.

Ser. No. 270,262. ESTELLE ROBINSON, Arverne, N. Y. Filed July 27, 1928.

Flying Stories

For Magazine Published Monthly.
Claims use since Mar. 15, 1928.

Ser. No. 270,274. MILES W. ARK, Rochester, N. Y. Filed July 28, 1928.

RURAL DIGEST

For Magazine.
Claims use since July 21, 1928.

Ser. No. 270,312. THE AMERICAN MEDICAL PUBLISHING COMPANY, New York, N. Y. Filed July 30, 1928.

AMERICAN MEDICINE

For Periodical Published Monthly.
Claims use since Apr. 6, 1901.

Ser. No. 270,336. INTERNATIONAL JOURNAL OF SURGERY CO., INC., New York, N. Y. Filed July 30, 1928.

INTERNATIONAL JOURNAL OF MEDICINE AND SURGERY

For Periodical Published Monthly.
Claims use since July, 1923.

Ser. No. 270,437. NATIONAL USED CAR MARKET REPORT, INC., Chicago, Ill. Filed Aug. 1, 1928.

PACIFIC COAST RED BOOK

For Periodical Publications Issued Approximately Quarterly.
Claims use since July 16, 1928.

Ser. No. 270,452. THE AESTHETE, INC., Chicago, Ill. Filed Aug. 2, 1928.

ÆSTHETE MAGAZINE

For Monthly Magazine.
Claims use since on or about May 25, 1928.

Ser. No. 270,713. NEW YORK ZOOLOGICAL SOCIETY, New York, N. Y. Filed Aug. 7, 1928.

BULLETIN NEW YORK ZOOLOGICAL SOCIETY

For Periodical Publication.
Claims use since Feb. 8, 1928.

Ser. No. 270,715. THE A. N. PALMER COMPANY, New York, N. Y. Filed Aug. 7, 1928.

Palmer Penmanship Pointers

For Periodical Published Quarterly.
Claims use since 1908.

Ser. No. 270,716. THE A. N. PALMER COMPANY, New York, N. Y. Filed Aug. 7, 1928.

THE AMERICAN PENMAN

For Periodical Published Monthly.
Claims use since 1908.

CLASS 39.

Clothing.

Ser. No. 248,368. LÉVI STRAUSS & COMPANY, San Francisco, Calif. Filed May 3, 1927.

Levi's

For Overalls.
Claims use since Apr. 14, 1927.

Ser. No. 252,716. LA CROSSE GARMENT CO., La Crosse, Wis. Filed July 29, 1927.

Patsy Prim

For Women's House Dresses, Frocks, and Dresses.
Claims use since April, 1927.

Ser. No. 255,715. E. KINERK, Indianapolis, Ind. Filed Oct. 6, 1927.

RED ROBIN

For Hosiery.
Claims use since Aug. 29, 1927.

Ser. No. 256,374. RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed Oct. 20, 1927.

A RELIANCE PRODUCT YANK JUNIOR

The outline of the diamond is customarily printed in red and the remainder in blue. Applicant disclaims any legal right in the words "A" and "Product" apart from the mark shown.
For Boys' Blouses, Negligee and Work Shirts, and Play Suits.
Claims use since Oct. 3, 1927.

Ser. No. 258,100. SCHNEIDER BROS. MILLINERY CO., St. Louis, Mo. Filed Nov. 26, 1927.

Doris Hats

No claim is made to the word "Hats."
For Ladies' and Misses' Hats.
Claims use since Nov. 15, 1927.

Ser. No. 258,130. LA SOCIÉTÉ L. BLANCHARD & CIE., Paris, France. Filed Nov. 28, 1927.



Alice Marie

For Clothing for Women, Misses, and Girls—Namely, Dresses and Blouses, Underwear of Knitted, Netted, and Textile Fabrics, Petticoats, Vests, Chemises, Knickers, Camisoles, Scarves, Fichus, Coats, and Hats.
Claims use since July 30, 1927.

Ser. No. 261,561. FRENCH, SHRINER & URNER, Boston, Mass. Filed Feb. 11, 1928.

Twin-Grip

For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since May, 1925.

Ser. No. 263,209. FRANZ ENTRESS, Nurtingen, Germany. Filed Mar. 15, 1928. Under 10-year proviso.

Entress

For Hosiery; Men's, Women's, and Children's Gloves; Jackets, Union Suits, Drawers, and Vests for Men, Women, and Children; Shawls, Scarves, Abdominal Bands, Knee Warmers, Brassières, Petticoats, Bloomers, Chemises, Nightgowns, Pajamas, Negligees, Dress Slips, Corsets, Neckties, Suspenders, Sweaters, Knitted Dresses, Knitted Coats, and Knitted Caps for Women and Children; Knitted Undershirts, Knitted Mufflers, Knitted Hats and Bonnets for Women and Children; Knitted Bathing Suits, Dresses and Gowns for Women and Children; Coats and Caps for Men, Women, and Children; Bath Robes, Mittens, Leggings, and Aprons, all of Wool, Cotton, Silk, Rayon, Artificial Silk, or Combinations Thereof.
Claims use since 1872.

Ser. No. 263,654. THE L. T. JENNINGS COMPANY, INC., Saginaw, Mich. Filed Mar. 23, 1928.

"Le Monde"

For Foundation Garments—Namely, Corsets, Girdles, Brassières, Garments in Nature of Corsets and Commonly Known as Step-Ins, Combinations Made Up of a Girdle and Brassière United, and Bandeaux.
Claims use since Mar. 17, 1928.

Ser. No. 264,306. THE J. L. HUDSON COMPANY, Detroit, Mich. Filed Apr. 4, 1928.

GRACEHEEL

For Hosiery.
Claims use since Jan. 10, 1928.

Ser. No. 264,645. IRON KING OVERALL COMPANY, Baltimore, Md. Filed Apr. 10, 1928.

KING COTTON OVERALLS

The words "Cotton" and "Overalls" are disclaimed apart from the mark.
For Men's Overalls, Pants, Work Shirts, and One-Piece Work Suits.
Claims use since Mar. 30, 1928.

Ser. No. 264,646. IRON KING OVERALL COMPANY, Baltimore, Md. Filed Apr. 10, 1928.

IRON KING QUALITY talks

For Men's Overalls, Pants, Work Shirts, and One-Piece Work Suits.
Claims use since Oct. 10, 1908.

Ser. No. 267,444. R. M. GRINO, doing business as New Bloomfield Hosiery Mills, New Bloomfield, Pa. Filed June 4, 1928.

HOSE

The lining on the drawing is intended to represent shading only, no claim being made to the exclusive use of the word "Hose."
For Cotton Half Hose.
Claims use since June 1, 1918.

Ser. No. 267,774. THE KELLER KNITTING COMPANY, Cleveland, Ohio. Filed June 9, 1928.

SYMPHONIK

For Knitted Sweaters, Sweater Coats, and Jackets for Men, Women, and Children.
Claims use since May, 1928.

Ser. No. 267,970. LAZARE KLEIN COMPANY, San Francisco, Calif. Filed June 13, 1928.

Jane Dandy FROCKS

The word "Frocks" is disclaimed apart from the mark as shown in the drawing.
For Ladies' and Misses' Dresses.
Claims use since Jan. 1, 1928.

Ser. No. 268,206. BOYD-RICHARDSON COMPANY, St. Louis, Mo. Filed June 18, 1928.

CUSTOMAIRE

For Men's Dress and Negligee Shirts.
Claims use since May 9, 1928.

Ser. No. 268,216. MORRIS DORF, doing business as Dorf & Company, Baltimore, Md. Filed June 18, 1928.

KOOL-BROW

For Caps for Men and Boys.
Claims use since Sept. 1, 1927.

Ser. No. 268,538. FRENCHIE FROCKS, INC., San Francisco, Calif. Filed June 28, 1928.

Frenchie Frocks

No claim is made for the words "Frenchie Frocks" apart from the mark shown in the drawing.
For Ladies', Misses', and Children's Wash Frocks, Staple and Novelty Smocks, and Aprons.
Claims use since Nov. 28, 1927.

Ser. No. 268,874. LOUIS J. MALLAS, INC., New York, N. Y. Filed June 29, 1928.

SCHOOL DAY FASHIONS

The exclusive use of the word "Fashions" is disclaimed apart from the mark shown.
For Misses', Juniors', and Children's Dresses, Skirts for Outer Wear, Panties, Blouses, Coats, and Hats.
Claims use since May 1, 1928.

Ser. No. 268,945. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1928.

LUCKY STRIKE

For Men's and Boys' Negligee and Work Shirts.
Claims use since Aug. 25, 1927.

Ser. No. 268,946. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1928.

DOUBLE RINGER

For Men's and Boys' Negligee and Work Shirts.
Claims use since Aug. 26, 1927.

Ser. No. 268,947. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1928.

SIXFOOTER

For Men's and Boys' Negligee and Work Shirts.
Claims use since May 28, 1928.

Ser. No. 268,948. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1928.

DIXIE DAN



The picture of the man appearing on the drawing is fanciful.
For Men's and Boys' Negligee and Work Shirts.
Claims use since Oct. 30, 1926.

Ser. No. 268,950. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1928.

Nobbywear

For Men's and Boys' Negligee and Work Shirts.
Claims use since Aug. 16, 1927.

Ser. No. 268,951. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1928.

OL' FRIEND

For Men's and Boys' Negligee and Work Shirts.
Claims use since Nov. 13, 1924.

Ser. No. 268,952. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1928.

RABBIT'S FOOT

For Men's and Boys' Negligee and Work Shirts.
Claims use since Aug. 12, 1927.

Ser. No. 268,975. ELCO SHOE MANUFACTURERS, INC., Brooklyn, N. Y. Filed July 2, 1928.

FASHIONEESE ELCO

For Men's, Women's, and Children's Shoes of Leather or Fabric or of Combinations of Those Materials.
Claims use since December, 1925.

Ser. No. 269,153. ROTHSCHILD GREENFIELD CO., St. Louis, Mo. Filed July 5, 1928.

PARLY

For Men's and Boys' Outer Shirts—Namely, Dress and Negligee Shirts—Woven and Knitted of Cotton, Silk, and Wool and Combinations Thereof.
Claims use since Apr. 6, 1927.

Ser. No. 269,271. HORACE L. ALLEN MFG. CO., Nashville, Tenn. Filed July 9, 1928.

KAPTAIN KID

For Boys' and Men's Work, Dress, and Negligee Shirts.
Claims use since April, 1927.

Ser. No. 269,356. RAYMOND LAZARD, Paris, France. Filed July 10, 1928.



The word "Versailles" being disclaimed apart from the mark shown.
For Stockings for Men, Women, and Children.
Claims use since Jan. 11, 1928.

Ser. No. 269,536. MONNIG DRY GOODS COMPANY, Fort Worth, Tex. Filed July 13, 1928.

GOLDEN DAWN

For Women's, Misses', and Children's Dresses.
Claims use since June 28, 1928.

Ser. No. 269,740. NORMANDIN BROS. CO., Los Angeles, Calif. Filed July 17, 1928.

TENISET

For Women's, Misses', and Juniors' Dresses.
Claims use since June 21, 1928.

Ser. No. 269,754. THE WORCESTER KNITTING CO., Worcester, Mass. Filed July 17, 1928.

Sunplay

For Bathing Suits.
Claims use since June 20, 1928.

Ser. No. 269,776. JOSEPH ENGEL COMPANY, New York, N. Y. Filed July 18, 1928.

"BOBBROOKE"

For Ladies' and Misses' Coats, Suits, and Dresses.
Claims use since Jan. 1, 1928.

Ser. No. 269,842. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Filed July 19, 1928.



The picture is fanciful.
For Hosiery and Work Shirts.
Claims use since Oct. 1, 1927, on hosiery and since May 12, 1928, on work shirts.

Ser. No. 269,974. NEBEL KNITTING COMPANY, Charlotte, N. C. Filed July 21, 1928.

Billie Doo

For Hosiery.
Claims use since May 12, 1928.

Ser. No. 270,028. HUTH & JAMES SHOE MANUFACTURING COMPANY, Milwaukee, Wis. Filed July 23, 1928.



MODERN MISS

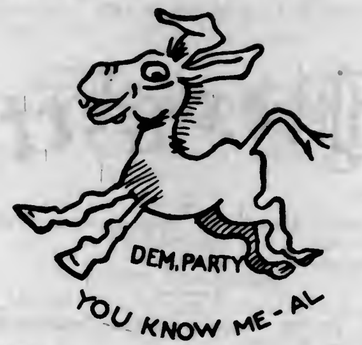
For Boots, Shoes, and Slippers of Leather, Fabric, or Combinations Thereof.
Claims use since Dec. 17, 1926.

Ser. No. 270,052. THE SELBY SHOE CO., Portsmouth, Ohio. Filed July 23, 1928.

de Lari

For Boots and Shoes Made of Leather and Textile Fabric.
Claims use since Feb. 1, 1928.

Ser. No. 270,227. CHARLES F. BERG, Portland, Oreg. Filed July 27, 1928.



For Hosiery.
Claims use since June 12, 1928.

Ser. No. 270,241. EMERSON SHOE MANUFACTURING COMPANY, Rockland, Mass. Filed July 27, 1928.

STYLECRAFT

Shoe Makers

No claim being made to the exclusive use of the words "Shoe Makers" except in combination with "Stylecraft" as shown in the drawing.
For Shoes of Leather and of Leather and Fabric Combinations.
Claims use since 1919.

Ser. No. 270,416. FINE AND LEVY, INC., New York, N. Y. Filed Aug. 1, 1928.

WHOOPEE!

For Children's Hats.
Claims use since May 26, 1928.

Ser. No. 270,424. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Aug. 1, 1928.

Britonian

For Men's Suits Consisting of Coat, Vest, and Trousers.
Claims use since July 20, 1928.

Ser. No. 270,602. NEW ENGLAND PANAMA HAT CO., INC., New York, N. Y. Filed Aug. 4, 1928.

Flex-Art

For Men's, Women's, and Children's Straw, Panama, and Felt Hats.
Claims use since Jan. 1, 1927.

Ser. No. 270,662. BADAGLIACCA INC., Paterson, N. J. Filed Aug. 6, 1928.

PED AGREE

Badagliacca Inc.

For Men's, Women's, and Children's Shoes Constructed of Leather.
Claims use since July 7, 1928.

Ser. No. 270,775. MISSY HAT CO., INC., New York, N. Y. Filed Aug. 8, 1928.

"CO-ED TAM"

The word "Tam" is disclaimed apart from the mark shown.
For Ladies' Hats, Children's and Misses' Hats and Tams.
Claims use since July, 1927.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 234,677. PRIMROSE NOVELTY CORPORATION, New York, N. Y. Filed July 17, 1926.

Primrose

For Devices Not Made of Precious Metal for Attaching and Supporting Shoe Buckles.
Claims use since November, 1925.

Ser. No. 259,690. JESSE OPPENHEIM, New York, N. Y. Filed Jan. 4, 1928.

SHUR-ON

For Hair Combs Made of Celluloid, and Hair Pieces.
Claims use since about Dec. 26, 1927.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 257,244. MANVILLE JENCKES COMPANY, Pawtucket, R. I. Filed Nov. 8, 1927.

VERBENA

For Voile in the Piece of Cotton, Silk, or Wool.
Claims use since Oct. 10, 1927.

Ser. No. 267,042. FRANK & COHEN SILK CORP., New York, N. Y. Filed May 26, 1928.

PORCELAIN

For Fabrics in the Piece of Silk, Artificial Silk, and Silk or Artificial-Silk Mixtures.
Claims use since Apr. 1, 1928.

Ser. No. 269,408. MAX HYMAN & CO., INC., New York, N. Y. Filed July 11, 1928.

M&HCo TWISTCASS

For Woolen Goods in the Piece.
Claims use since June 15, 1928.

Ser. No. 269,980. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y. Filed July 21, 1928.

ONOMAINE

For Silk Fabrics in the Piece.
Claims use since January, 1927.

Ser. No. 269,981. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y. Filed July 21, 1928.

ONDASOIE

For Silk Fabrics in the Piece.
Claims use since January, 1927.

Ser. No. 269,982. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y. Filed July 21, 1928.

ONONDA

For Silk Fabrics in the Piece.
Claims use since Apr. 15, 1928.

Ser. No. 270,190. EMILE H. KLUGE, West New York, N. J. Filed July 26, 1928.

CAMPAIGN POCHETTE

The term "Campaign" is disclaimed apart from the other features of the mark shown in the drawing.
For Political Novelty or Campaign Package Comprising an Open-Front Envelope Containing a Handkerchief Having a Photograph Thereon Exposed Through the Opening in the Envelope.
Claims use since June 1, 1928.

Ser. No. 270,302. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y. Filed July 28, 1928.

BICHETTE

For Silk Fabrics in the Piece.
Claims use since July 16, 1928.

Ser. No. 270,944. J. L. STIFEL & SONS, Wheeling, W. Va. Filed Aug. 13, 1928.

DOUBLE DUTY

For Cotton Piece Goods.
Claims use since about July 30, 1926.

Ser. No. 271,004. MOORESVILLE COTTON MILLS, Mooresville, N. C. Filed Aug. 14, 1928.

MOOR

For Turkish Towels.
Claims use since July 10, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 270,155. VARICK ELECTRIC MANUFACTURING CO., INC., New York, N. Y. Filed July 25, 1928.

Thermotex

For Electrically-Heated Pads for Therapeutic Uses.
Claims use since January, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 269,768. CITRUS PRODUCTS COMPANY, Chicago, Ill. Filed July 18, 1928.

Black Calf

For Noncereal, Maltless, Nonalcoholic Beverages and Compounds for Making the Same.
Claims use since July 1, 1928.

Ser. No. 270,679. DAVID RASCOFF, doing business as Hammer Beverages, Brooklyn, N. Y. Filed Aug. 6, 1928.

HAMMER'S

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Oct. 1, 1924.

Ser. No. 270,681. ERNEST J. TOWNSEND, East Lynn, Mass. Filed Aug. 6, 1928.

FOUR-BARKS

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Syrups and Concentrates for Making the Same.
Claims use since Apr. 5, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 217,427. TAYLOR & DREW, Philadelphia, Pa. Filed July 15, 1925.



No claim is made to the representation of a loaf of bread and the words "Whole Health Bread" apart from the mark shown in the drawing.

For Bread.

Claims use since about May 4, 1925.

Ser. No. 240,216. ROBBINS RUSSEL, Thermal, Calif. Filed Nov. 17, 1926.

AMERDES

For Fresh Citrus and Deciduous Fruits, Fresh Vegetables, Fresh Grapes, Nuts in Their Natural State; Fresh Melons—Namely, Cantaloupes; Dried Fruits, Dried Raisins; Dates Dried, Processed, Canned, Bottled, Packaged, and in Bulk; Canned and Bottled Fruits, Live Poultry, Live Hogs, Live Cattle, Live Sheep; Live Rabbits, and Live Goats.

Claims use since Oct. 5, 1926.

Ser. 240,217. ROBBINS RUSSEL, Thermal, Calif. Filed Nov. 17, 1926.



For Fresh Citrus and Deciduous Fruits, Fresh Vegetables, Fresh Grapes, Nuts in Their Natural State; Fresh Melons—Namely, Cantaloupes; Dried Fruits, Dried Raisins; Dates Dried, Processed, Canned, Bottled, Packaged, and in Bulk; Canned and Bottled Fruits, Live Poultry, Live Hogs, Live Cattle, Live Sheep, Live Rabbits, and Live Goats.

Claims use since Oct. 5, 1926.

Ser. No. 249,292. H. G. PRINCE & CO., Fruitvale, Calif. Filed May 20, 1927.

MOTHER'S BEST

For Canned Fruit.

Claims use since November, 1920.

Ser. No. 249,293. H. G. PRINCE & CO., Fruitvale, Calif. Filed May 20, 1927.



For Canned Fruit.

Claims use since November, 1920.

Ser. No. 251,328. FIORITA NUT COMPANY, St. Louis, Mo. Filed June 30, 1927.

FIORITA

For Fresh, Stuffed, and Candied Dates, and Toasted and Salted Nuts.

Claims use since August, 1925.

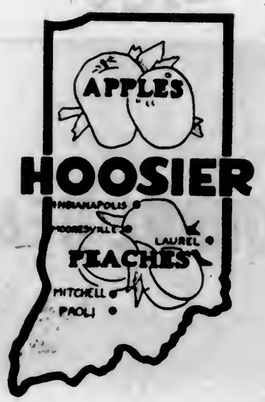
Ser. No. 259,080. RICHMOND-CHASE COMPANY, San Jose, Calif. Filed Dec. 17, 1927.

Pacific Tide

For Canned Fruits—Namely, Apricots, Cherries, Grapes, Peaches, Pears, Plums, Pineapple, Fruit Salad; Prepared Prunes in Syrup, and Tomato Purée.

Claims use since September, 1925.

Ser. No. 260,826. HOOSIER APPLE AND PEACH GROWERS, INC., Indianapolis, Ind. Filed Jan. 28, 1928.



No claim is herein made to exclusive use of the matter shown on the drawing other than the word "Hoosier" and the map except in the particular arrangement shown.

For Fresh Fruits, Particularly Apples and Peaches.

Claims use since Sept. 15, 1927.

Ser. No. 260,922. SUNRISE PACKING COMPANY, Fresno, Calif. Filed Jan. 30, 1928.

Pleasur

For Dried Fruits.

Claims use since Sept. 26, 1927.

Ser. No. 261,299. FEDERAL DATE AND FIG COMPANY, Detroit, Mich. Filed Feb. 6, 1928.

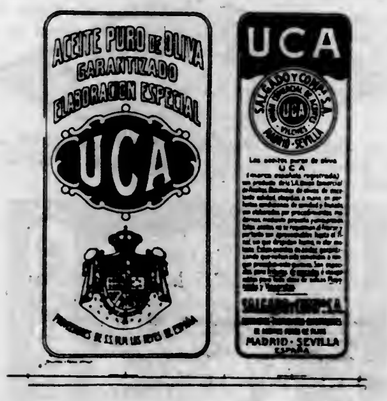
E-Ta-Fig

No claim is made to the exclusive right to the use of the descriptive name "Fig" apart from the name as shown in the drawing.

For Packages of Washed Dried Figs.

Claims use since approximately Apr. 1, 1926.

Ser. No. 261,723. SALGADO Y COMPANIA, S. A. UNION COMERCIAL DE ACEITES, Madrid, Sevilla, and Vilches, Spain. Filed Feb. 15, 1928.



With the exception of the expression "Uca" applicant disclaims all the reading matter apart from the mark as shown.

For Edible Oils of All Kinds.

Claims use since Nov. 10, 1927.

Ser. No. 262,487. THE RATH PACKING COMPANY, Waterloo, Iowa. Filed Mar. 1, 1928.

Raco

For Sausage, Bacon, and Ham.

Claims use since Nov. 15, 1924.

Ser. No. 264,753. DUNCAN MAY CANDY CO., INC., Montgomery, Ala. Filed Apr. 13, 1928.



No claim is made to the words "Egg Nog" apart from the other features of the mark shown.

For Stick Candy.

Claims use since Feb. 1, 1928.

Ser. No. 265,194. CAPITAL CITY BAKING CO., Harrisburg, Pa. Filed Apr. 21, 1928.

CAPITAL CREATIONS

"Made with a Mother's Care"

No registration rights are claimed in the words "Creations" and "Made with a Mother's Care" except in association with the other features of the mark.

For Cakes and Bread.

Claims use since Apr. 14, 1928.

Ser. No. 265,950. CIRCLE LUNCH CORPORATION OF AMERICA, Reno, Nev., and Los Angeles, Calif. Filed May 5, 1928.



No claim being made to the word "Lunch" apart from the rest of the mark shown. The horizontal section lining indicates the color blue, and the broken double angular section lining indicates the color orange.

For Baked Stuffs—Namely, Buns and Rolls and Sandwiches.

Claims use since Feb. 18, 1928.

Ser. No. 265,976. LILLIE MILL COMPANY, Franklin, Tenn. Filed May 5, 1928.

DE LUXE

For Wheat Flour.

Claims use since February, 1915.

Ser. No. 266,894. S. WALTER STAUFFER, doing business as Southern Farms Company, Walkersville, Md. Filed May 23, 1928.

AUNT *Lucy*

For Pork Products—Namely, Sausage.

Claims use since Feb. 27, 1928.

Ser. No. 266,978. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed May 25, 1928.

CHICOS

For Peanuts—Namely, Salted Peanuts.

Claims use since Feb. 15, 1928.

Ser. No. 267,232. BOOTH FISHERIES COMPANY, Chicago, Ill. Filed May 31, 1928.

SQUARE DEAL

For Canned Salmon.

Claims use since May 8, 1907.

Ser. No. 267,716. A. NONES & CO., New York, N. Y. Filed June 8, 1928.

AIRPACK

For Nuts—Namely, Salted and Roasted Cashews in Wholes, Halves, and Chips, and Also Shelled Walnuts as Wholes, Extra Halves, and Meats.

Claims use since 1926.

Ser. No. 267,989. PACIFIC TRADING CO. INC., San Francisco, Calif. Filed June 13, 1928.

SUYEHIRO

For Canned Fish—Namely, Fried Fish Cakes.

Claims use since 1926.

Ser. No. 267,992. PEPPERS FRUIT COMPANY, Los Angeles, Calif. Filed June 13, 1928.

RED MULE

For Fresh Citrus Fruits, Fresh Deciduous Fruits, Fresh Vegetables, Fresh Grapes, Fresh Melons.

Claims use since Mar. 29, 1926.

Ser. No. 268,202. AMERICAN FRUIT DISTRIBUTORS, INC., Jacksonville, Fla. Filed June 18, 1928.



The word "Brand" is hereby disclaimed apart from the other features of the mark shown in the drawing. In the drawing the sky portion of the background is lined for blue, the hills and shadows are lined for purple, trees and immediate foreground are lined for green, and the area between the green foreground and the hills adjacent the sky line are lined for yellow.

For Fresh Oranges and Grapefruit.

Claims use since Jan. 15, 1924.

Ser. No. 268,670. SIMON BITTERMAN, doing business as Jeru Artichoke Products Company, Denver, Colo. Filed June 26, 1928.

JERU ARTICHOKE FLAKES



Exclusive use of the words "Artichoke Flakes" and the representation of the goods are disclaimed apart from the mark as shown.

For Artichoke Flakes Put Up in Dried Form.

Claims use since Feb. 20, 1928.

Ser. No. 268,697. MCGAVIN'S BREAD, INC., Denver, Colo. Filed June 26, 1928.



The exclusive right to the words "Special Home Made" and "Bread" is disclaimed apart from the mark as shown. The lining in the drawing does not represent color. The lining on the labels is red, but a special color is not an essential feature of the mark.

For Bread.

Claims use since Apr. 15, 1928.

Ser. No. 268,739. LUSH'US PRODUCTS CO., Chicago, Ill. Filed June 27, 1928.



Applicant disclaims the word "Peas" and the word "Lush'us" apart from the other features of the mark as shown in the drawing.

For Canned Peas.

Claims use since June 15, 1928.

Ser. No. 269,165. H. L. WHITE, doing business as Stockton Malt Co., Stockton, Calif. Filed July 5, 1928.

NU-WAY

For Malt Syrup.

Claims use since Apr. 27, 1928.

Ser. No. 269,480. PABST CORPORATION, Milwaukee, Wis. Filed July 12, 1928.

BLACK LABEL

No claim is made to exclusive use of a black label.
For Malt Syrup.
Claims use since June 28, 1928.

Ser. No. 269,511. CHULA VISTA CITRUS ASSOCIATION, Chula Vista, Calif. Filed July 13, 1928.

IMP

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Mar. 1, 1917.

Ser. No. 269,582. EDWARD S. GOLDHILL, New York, N. Y. Filed July 14, 1928.

Colonial Donuts

No claim is made to the word "Donuts" apart from the mark as shown.
For Doughnuts.
Claims use since about June 20, 1928.

Ser. No. 269,592. LAWRENCEBURG ROLLER MILLS CO., Lawrenceburg, Ind. Filed July 14, 1928.

INDIANA QUEEN

For Wheat and Self-Rising Flour.
Claims use since June 20, 1928.

Ser. No. 269,674. WILLIAM T. MADDEN, doing business as Serv-U-Wel Bakery and Serv-U-Wel Markets, Zanesville, Ohio. Filed July 16, 1928.

SERV-U-WEL

For Coffee, Creamery Butter, and Bread.
Claims use since Apr. 15, 1927.

Ser. No. 269,780. LEE HAGAN, Atlanta, Ga. Filed July 18, 1928.



Pig'n Whistle
SANDWICH

The word "Sandwich" is disclaimed apart from the mark as shown on the drawing.
For Sandwiches.
Claims use since Mar. 1, 1928.

Ser. No. 269,851. IGNAZIO NUCCIO, doing business as Traiana Olive Oil Company, Cleveland, Ohio. Filed July 19, 1928.

TRAIANA



For Olive Oil.
Claims use since July 14, 1928.

Ser. No. 269,956. GUNTRATH-LORENZEN CO., Chicago, Ill. Filed July 21, 1928.

SHER-BO

For Dessert and Pudding Powder.
Claims use since June 20, 1928.

Ser. No. 270,186. IMPERIAL CANDY CO., Seattle, Wash. Filed July 26, 1928.

TRAVELOGUE

For Candy.
Claims use since June 1, 1928.

Ser. No. 270,294. M. J. HOLLOWAY & CO., Chicago, Ill. Filed July 28, 1928.

HOLLOWAY'S
BLACK COW

For Candy.
Claims use since Nov. 1, 1926.

Ser. No. 270,295. M. J. HOLLOWAY & CO., Chicago, Ill. Filed July 28, 1928.

HOLLOWAY'S

For Candy.
Claims use since Apr. 15, 1925.

Ser. No. 270,435. HELEN F. MONMONIER, Catonsville, Baltimore, Md. Filed Aug. 1, 1928.

O-M Y-O

For Biscuit Dough.
Claims use since July 21, 1928.

Ser. No. 270,500. PENICK & FORD, LTD., New York, N. Y. Filed Aug. 2, 1928.



For Molasses.
Claims use since February, 1907.

Ser. No. 270,570. E. J. BRACH & SONS, Chicago, Ill. Filed Aug. 4, 1928.

BROXIE

For Candy.
Claims use since Apr. 26, 1928.

Ser. No. 270,695. EM-IT-PRODUCTS COMPANY, Snyder, Tex. Filed Aug. 7, 1928.

"EM"

For Pickles.
Claims use since May 1, 1928.

Ser. No. 270,722. RIALTO ORANGE CO., Rialto, Calif. Filed Aug. 7, 1928.

Fancia

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Oct. 17, 1924.

Ser. No. 270,770. HUNT BROTHERS PACKING COMPANY, San Francisco, Calif. Filed Aug. 8, 1928.

RIPPLEBROOK

For Canned Fruits.
Claims use since on or about Oct. 1, 1927.

Ser. No. 270,796. KADIAK FISHERIES COMPANY, Seattle, Wash. Filed Aug. 9, 1928.

ZEST

For Canned Salmon.
Claims use since May 5, 1928.

Ser. No. 270,851. THE H. H. MEYER PACKING COMPANY, Cincinnati, Ohio. Filed Aug. 10, 1928.

"Partridge"



For Creamery Butter.
Claims use since 1876.

CLASS 48.

Malt Beverages and Liquors.

Ser. No. 269,724. FALLS CITY ICE & BEVERAGE COMPANY, Louisville, Ky. Filed July 17, 1928.

MALT-LIFE



TONIC

The words "Malt" and "Tonic" are disclaimed apart from the other features of the mark appearing in the drawing.
For Nonalcoholic, Cereal or Noncereal Malt Beverage Used as a Tonic.
Claims use since July 7, 1928.

Ser. No. 269,960. JACKSON BREWING COMPANY, New Orleans, La. Filed July 21, 1928.

SABANA

For Nonalcoholic Malt Cereal.
Claims use since Apr. 25, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 18, 1928.

246,822. AIR BLOWERS, CRUSHERS FOR ROCK ORE AND THE LIKE FOR BOTH LABORATORY AND INDUSTRIAL PURPOSES, AND CUPEL MACHINES FOR MOLDING CUPELS. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed February 24, 1928. Serial No. 262,157. PUBLISHED JULY 10, 1928. Class 23.

246,823. AIR BLOWERS, CRUSHERS FOR ROCK ORE AND THE LIKE FOR BOTH LABORATORY AND INDUSTRIAL PURPOSES, AND CUPEL MACHINES FOR MOLDING CUPELS. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed February 24, 1928. Serial No. 262,159. PUBLISHED JULY 10, 1928. Class 23.

246,824. SIEVES OF METAL AND WIRE CLOTH FOR TESTING AND LABORATORY USE, GRAPHITE CRUCIBLES (MELTING TYPE), AND ASSAY CLAY GOODS, PARTICULARLY ANNEALING CUPS, ASSAY CRUCIBLES AND COVERS THEREFOR, MUFFLES, ROASTING DISHES, AND SCORIFIERS. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed February 24, 1928. Serial No. 262,160. PUBLISHED JULY 10, 1928. Class 26.

246,825. CHEESE OF SWISS ORIGIN. O. ROTH & Co. A.-G. EXPORT IN SCHWEIZERKÄSE (EMMENTHALER), Uster, Switzerland.
Filed February 24, 1928. Serial No. 262,181. PUBLISHED JULY 10, 1928. Class 46.

246,826. JULIENNE POTATO STICKS. MANOR FOOD PRODUCTS COMPANY, Philadelphia, Pa.
Filed March 2, 1928. Serial No. 262,521. PUBLISHED JULY 10, 1928. Class 46.

246,827. WRENCHES AND SOCKET-WRENCH SETS. BONNEY FORGE & TOOL WORKS, Allentown, Pa.
Filed March 3, 1928. Serial No. 262,547. PUBLISHED JULY 10, 1928. Class 23.

246,828. VEGETABLE FAT. IDA KOSSOFF, New York, N. Y.
Filed March 3, 1928. Serial No. 262,568. PUBLISHED JULY 10, 1928. Class 46.

246,829. WEEKLY NEWSPAPER. AUGUST C. MEYER, doing business as Merchants' News Publishing Co., Albany, N. Y.
Filed March 3, 1928. Serial No. 262,573. PUBLISHED JULY 3, 1928. Class 38.

246,830. FLASH LIGHTS. BLAKE MANUFACTURING CO., Springfield, Mass.
Filed March 6, 1928. Serial No. 262,646. PUBLISHED JULY 3, 1928. Class 21.

246,831. METAL SHANKS FOR SHOES. FRANK G. DELBON, Brooklyn, N. Y.
Filed March 7, 1928. Serial No. 262,704. PUBLISHED JULY 3, 1928. Class 13.

246,832. FOLDABLE CARDBOARD CONTAINERS FOR MEN'S, WOMEN'S, AND CHILDREN'S WEARING APPAREL. ISAAC APPELBAUM, doing business as The Hangerette Company, New York, N. Y.
Filed March 8, 1928. Serial No. 262,786. PUBLISHED JULY 3, 1928. Class 2.

246,833. POLISHING CLOTHS IMPREGNATED WITH MILD ABRASIVES AS USED ON VARNISHED AND LACQUERED SURFACES. JOHN C. KOUGH, Jr., doing business as Kough Products Co., Midland Park, N. J.
Filed March 8, 1928. Serial No. 262,809. PUBLISHED JUNE 19, 1928. Class 4.

246,834. DOMESTIC REFRIGERATING MACHINES. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill.
Filed March 8, 1928. Serial No. 262,834. PUBLISHED JULY 3, 1928. Class 31.

246,835. TABLE KNIVES AND FORKS OF BASE METAL, POCKETKNIVES, KITCHEN KNIVES, INDUSTRIAL AND ARTISANS' KNIVES, TONGS, CHISELS, PLANE IRONS, SAWS, FILES, AXES, SCYTHES, SICKLES, SABRES, AND DAGGERS. HUGO HEBKENRATH, Merscheid, Germany.
Filed March 9, 1928. Serial No. 262,847. PUBLISHED JULY 10, 1928. Class 23.

246,836. COAL. LACKEY COAL COMPANY, Nashville, Tenn.
Filed March 9, 1928. Serial No. 262,855. PUBLISHED JUNE 26, 1928. Class 1.

246,837. TRADE JOURNALS PUBLISHED FROM TIME TO TIME. SERVEL, INC., Evansville, Ind.
Filed March 9, 1928. Serial No. 262,874. PUBLISHED JUNE 26, 1928. Class 38.

246,838. CIGARS, CIGARETTES, AND CUT TOBACCO. CIFUENTES, PEGO Y COMPAÑIA, Habana, Cuba.
Filed March 10, 1928. Serial No. 262,897. PUBLISHED JULY 10, 1928. Class 17.

246,839. CANDIES. THE RUBAY CANDY COMPANY, Cleveland, Ohio.
Filed March 10, 1928. Serial No. 262,936. PUBLISHED JULY 10, 1928. Class 46.

246,840. COFFEE AND TEA. FINEART FOODS, INC., Tuckahoe, N. Y.
Filed March 10, 1928. Serial No. 262,958. PUBLISHED JULY 3, 1928. Class 46.

246,841. ELECTRIC REFRIGERATORS. HANFORD PRODUCE COMPANY, Sioux City, Iowa.
Filed March 12, 1928. Serial No. 263,040. PUBLISHED JULY 10, 1928. Class 31.

246,842. CANNED GRAPEFRUIT. FLORIDA FRUIT CANNERS INC.; Frostproof, Fla.
Filed February 2, 1928. Serial No. 261,052. PUBLISHED JULY 3, 1928. Class 46.

246,843. MALT SYRUP. JACOB M. SILVER, doing business as Scotch Malt Company, Hartford, Conn.
Filed February 4, 1928. Serial No. 261,222. PUBLISHED JULY 3, 1928. Class 46.

246,844. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. KAPPA PHI KAPPA, Hanover, N. H.
Filed February 6, 1928. Serial No. 261,260. PUBLISHED JULY 3, 1928. Class 28.

246,845. FENCE WIRE, WIRE GAUZE FOR HOP AND VINE CULTIVATION, FENCE AND HEDGE WIRE, WIRE NETTING, BARBED WIRE, WIRE AND METAL FABRICS, WIRE NAILS, METAL CLIPS FOR SECURING WIRE AND WIRE GAUZE AND BRAID, SLIDING METAL LOOPS OR RINGS FOR SECURING WIRE AND WIRE GAUZE AND BRAID, RIVETS, AND SCREWS. VEREINIGTE STAHLWERKE AKTIENGESELLSCHAFT, Dusseldorf, Germany.
Filed February 6, 1928. Serial No. 261,293. PUBLISHED JULY 3, 1928. Class 13.

246,846. RAZOR BLADES. RUBIE BLADE CORPORATION, New York, N. Y.
Filed February 9, 1928. Serial No. 261,458. PUBLISHED JULY 3, 1928. Class 23.

246,847. BASE-METAL BOWLS, CANDY DISHES, AND JARS; DOOR KNOCKERS, FLOWER HOLDERS, MECHANICALLY-OPERATED GONGS, JARDINIÈRES, JARS, PLATTERS, TEA KETTLES, TEA SERVICE, TRAYS, VASES, AND WALL SHELF BRACKETS. I. SHAININ & Co., New York, N. Y.
Filed February 9, 1928. Serial No. 261,462. PUBLISHED JULY 3, 1928. Class 13.

246,848. CERTAIN NAMED CONSTRUCTION MATERIALS. THE AMBER SIZE & CHEMICAL CO., LTD., London, England.
Filed February 13, 1928. Serial No. 261,600. PUBLISHED JUNE 19, 1928. Class 12.

246,849. PRINTED PUBLICATION ISSUED WEEKLY OR MONTHLY. EDWIN J. RYAN, Chicago, Ill.
Filed February 13, 1928. Serial No. 261,652. PUBLISHED JULY 3, 1928. Class 38.

246,850. CANDY. THE BRADLEY, SMITH COMPANY, New Haven, Conn.
Filed February 14, 1928. Serial No. 261,665. PUBLISHED JULY 10, 1928. Class 46.

246,851. TABLE WATER AND FRUIT JUICES FOR BEVERAGE PURPOSES. W. J. HOWEY CO., Howey-in-the-Hills, Fla.
Filed February 14, 1928. Serial No. 261,674. PUBLISHED JULY 3, 1928. Class 45.

246,852. SCRAPERS FOR SCRAPING DIRT, SAND, GRAVEL, COAL, AND THE LIKE. GOODWIN GARST, doing business as Garst Manufacturing Co., Chicago, Ill.
Filed February 16, 1928. Serial No. 261,751. PUBLISHED JULY 3, 1928. Class 23.

246,853. FINGER RINGS, NAPKIN RINGS, PEARLS TO BE STRUNG OR STRINGS OF PEARLS, AND BELT BUCKLES MADE OF OR PLATED WITH PRECIOUS METAL. S. BUCHSBAUM & Co., Chicago, Ill.
Filed February 18, 1928. Serial No. 261,857. PUBLISHED JULY 3, 1928. Class 28.

246,854. CERTAIN NAMED TEXTILES. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed February 18, 1928. Serial No. 261,926. PUBLISHED JULY 3, 1928. Class 42.

246,855. COAL-HANDLING EQUIPMENT—NAMELY, COAL STOKERS. COMBUSTIONEER, INC., Chicago, Ill.
Filed February 20, 1928. Serial No. 261,943. PUBLISHED JULY 3, 1928. Class 34.

246,856. TRUNKS, SUCH AS WARDROBE TRUNKS, WARDROBE CASES, AUTOMOBILE TRUNKS, AND HAND LUGGAGE, SUCH AS TRAVELING BAGS, SUITCASES, HATBOXES, AND EMPTY LUNCH KITS. THE-DERCO TRUNK CO., Los Angeles, Calif.
Filed February 20, 1928. Serial No. 261,950. PUBLISHED JULY 3, 1928. Class 3.

246,857. DISTRIBUTOR AND OIL-PUMP GEARS. J. A. FISCHER COMPANY, Philadelphia, Pa.
Filed February 20, 1928. Serial No. 261,953. PUBLISHED JULY 3, 1928. Class 23.

246,858. MEN'S TOPCOATS AND OVERCOATS. HICKEY-FREEMAN CO., Rochester, N. Y.
Filed February 21, 1928. Serial No. 262,028. PUBLISHED JUNE 19, 1928. Class 39.

246,859. BRAKE-TESTING MACHINES. TAYLOR MANUFACTURING CORPORATION, Los Angeles, Calif.
Filed March 19, 1928. Serial No. 262,043. PUBLISHED JULY 10, 1928. Class 26.

246,860. BELTING MADE OF CANVAS, CANVAS AND RUBBER, AND RUBBER AND VARIOUS REENFORCING MATERIALS, SUCH AS METALLIC WIRES, TEXTILE FIBRES, AND THE LIKE. FERGUSON GEAR COMPANY, Gastonia, N. C.
Filed February 23, 1928. Serial No. 262,073. PUBLISHED JULY 3, 1928. Class 35.

246,861. GRADING MACHINES AND PARTS THEREOF, SUCH AS ARE USED FOR REMOVING EARTH FROM STREETS AND ROADWAYS. LITTLE RED WAGON MFG. CO., Omaha, Nebr.
Filed February 23, 1928. Serial No. 262,098. PUBLISHED JULY 10, 1928. Class 23.

246,862. PERFUME. JOHN L. LOMBARDO, doing business as J. L. Lombardo Co., Buffalo, N. Y.
Filed November 7, 1927. Serial No. 257,172. PUBLISHED DECEMBER 13, 1927. Class 6.

246,863. ELECTRIC LAMPS AND LANTERNS, ELECTRIC SEARCHLIGHTS, AND ELECTRIC SIGNS. PERKINS MARINE LAMP CORPORATION, Brooklyn, N. Y.
Filed April 4, 1928. Serial No. 264,325. PUBLISHED JULY 3, 1928. Class 21.

246,864. CERTAIN SMOKERS' ARTICLES. E. A. KLINE, doing business as E. A. Kline & Co., New York, N. Y.
Filed April 4, 1928. Serial No. 264,309. PUBLISHED JULY 10, 1928. Class 8.

246,865. SCORE-REGISTERING DEVICE FOR GOLF. THE GOLF SCORE WATCH COMPANY, INCORPORATED, Los Angeles, Calif.
Filed April 4, 1928. Serial No. 264,296. PUBLISHED JULY 10, 1928. Class 26.

246,866. ENVELOPES, LETTERHEADS, BILLHEADS, BLANK BOOKS, BLOTTERS, FOLDERS, AND PORTFOLIOS. GAW-O'HARA ENVELOPE COMPANY, Chicago, Ill.
Filed April 4, 1928. Serial No. 264,295. PUBLISHED JUNE 26, 1928. Class 37.

246,867. CERTAIN NAMED CONSTRUCTION MATERIALS. CORTRIM LUMBER COMPANY, Bristol, Tenn.
Filed April 4, 1928. Serial No. 264,290. PUBLISHED JUNE 26, 1928. Class 12.

246,868. WEEKLY MAGAZINE. TIME, INCORPORATED, New York, N. Y.
Filed April 3, 1928. Serial No. 264,266. PUBLISHED JUNE 19, 1928. Class 38.

246,869. REFRACTORY BRICKS AND BLOCKS AND REFRACTORY CEMENTS. MCLEOD & HENRY CO., Troy, N. Y.
Filed April 3, 1928. Serial No. 264,246. PUBLISHED JUNE 12, 1928. Class 12.

246,870. DOORS, WINDOWS, SASHES, AND TRIMS. GENERAL WOODCRAFT CO., INC., North Bergen, N. J.
Filed April 3, 1928. Serial No. 264,227. PUBLISHED JUNE 5, 1928. Class 12.

246,871. TILES AND FOUNDATION SHEETS. PORCELAIN TILE COMPANY, Chicago, Ill.
Filed April 2, 1928. Serial No. 264,196. PUBLISHED JUNE 5, 1928. Class 12.

246,872. VELOCIPEDES. THE COLSON COMPANY, Elyria, Ohio.
Filed April 2, 1928. Serial No. 264,144. PUBLISHED JULY 3, 1928. Class 22.

246,873. SALVE OINTMENT EMPLOYED IN THE TREATMENT OF PSORIASIS. ISAAC MASARSKY, doing business as Valley Laboratories, Spring Valley, N. Y.
Filed March 31, 1928. Serial No. 264,113. PUBLISHED JUNE 12, 1928. Class 6.

246,874. ASPHALT EMULSION FOR WATERPROOF COATINGS AND GENERAL USE. THE EMULSION PROCESS CORPORATION, Jersey City, N. J.
Filed March 30, 1928. Serial No. 264,027. PUBLISHED JUNE 26, 1928. Class 12.

246,875. ASPHALT COMPOUNDS. THE UNION PRODUCTS COMPANY, Cleveland, Ohio.
Filed March 29, 1928. Serial No. 263,985. PUBLISHED JUNE 26, 1928. Class 12.

246,876. BOTTLED OR CANNED TOMATO JUICE. KEMP BROTHERS PACKING CO., Frankfort, Ind.
Filed March 29, 1928. Serial No. 263,951. PUBLISHED JULY 3, 1928. Class 46.

246,877. TOILET PAPER, PAPER TOWELS, AND PAPER NAPKINS. HOBERG PAPER AND FIBRE COMPANY, Green Bay, Wis.
Filed March 29, 1928. Serial No. 263,946. PUBLISHED JUNE 19, 1928. Class 37.

246,878. LEAD PENCILS. EAGLE PENCIL COMPANY, New York, N. Y.
Filed March 29, 1928. Serial No. 263,937. PUBLISHED JUNE 19, 1928. Class 37.

246,879. REFRACTORY BLOCKS FOR FURNACES. CORHART REFRACTORIES COMPANY, Louisville, Ky.
Filed March 29, 1928. Serial No. 263,926. PUBLISHED JUNE 19, 1928. Class 12.

246,880. CERTAIN NAMED CONSTRUCTION MATERIALS. CONTINENTAL BUILDING SPECIALTIES, Los Angeles, Calif.
Filed March 29, 1928. Serial No. 263,925. PUBLISHED JUNE 19, 1928. Class 12.

246,881. PAPER DIAPERS. MONETTE COMPANY, Green Bay, Wis.
Filed March 28, 1928. Serial No. 263,881. PUBLISHED JUNE 19, 1928. Class 37.

246,882. COMPOSITION ROOFING IN ROLLS. THE CHATFIELD MANUFACTURING CORPORATION, Boston, Mass.
Filed March 28, 1928. Serial No. 263,858. PUBLISHED JUNE 5, 1928. Class 12.

246,883. FISH LURES. C. W. WYNN, Selma, Ala.
Filed April 1, 1927. Serial No. 246,800. PUBLISHED JULY 3, 1928. Class 22.

246,884. PERIODICAL, PAMPHLETS, DATA SHEETS, AND PRINTED BLANKS. LEFAX, Philadelphia, Pa.
Filed March 26, 1927. Serial No. 246,418. PUBLISHED JULY 3, 1928. Class 38.

246,885. COAL. A. S. NOWLIN & COMPANY, Lynchburg, Va.
Filed March 23, 1927. Serial No. 246,219. PUBLISHED MAY 24, 1927. Class 1.

246,886. OINTMENTS—NAMELY, COLD-SORE OINTMENT OR FEVER ICE, ROUGE AND LIP STICK, AND LIP STICK. LOUIS P. PHILIPPI, doing business as The Irvington Company, Cable, Wis.
Filed February 10, 1927. Serial No. 244,179. PUBLISHED JULY 12, 1927. Class 6.

246,887. SANITARY NAPKINS. SITROUX IMPORTING CO., INC., New York, N. Y., assignor to The Sterilek Company Inc., New York, N. Y., a Corporation of New York.
Filed February 9, 1927. Serial No. 244,113. PUBLISHED SEPTEMBER 13, 1927. Class 44.

246,888. NATURAL OR SYNTHETIC OILS, PHOTOGRAPHIC CHEMICALS, ETC. RHODIA CHEMICAL COMPANY, New York, N. Y.
Filed February 5, 1927. Serial No. 243,886. PUBLISHED MARCH 13, 1928. Class 6.

246,889. NATURAL OR SYNTHETIC OILS, PHOTOGRAPHIC CHEMICALS, ETC. RHODIA CHEMICAL COMPANY, New York, N. Y.
Filed February 5, 1927. Serial No. 243,885. PUBLISHED MARCH 13, 1928. Class 6.

246,890. OIL-WELL SPECIALTIES COMPRISING MUD FLUMES, VALVES FOR OIL-WELL SLUSH PUMPS, PISTONS, PUMPS, DRILL BITS, AND KEYS FOR CONNECTING RODS, SUCH AS USED IN OIL-WELL PRACTICE. HARRY L. LOWE, Los Angeles, Calif.
Filed January 22, 1927. Serial No. 243,225. PUBLISHED JULY 10, 1928. Class 23.

246,891. BREAD AND WHEAT BISCUIT FLOUR. CENTRAL MILLING CO. OF TENNESSEE, Memphis, Tenn., and Birmingham, Ala., assignor to Central Mills Corporation, Memphis, Tenn., a Corporation of Delaware.
Filed January 17, 1927. Serial No. 242,948. PUBLISHED JULY 3, 1928. Class 46.

246,892. LIQUID PREPARATION FOR THE TREATMENT OF PYORRHEA, VINCENT'S ANGINA, AND TRENCH MOUTH. THE CLINICAL LABORATORIES COMPANY, Cleveland, Ohio.
Filed January 3, 1927. Serial No. 242,281. PUBLISHED MAY 8, 1928. Class 6.

246,893. SOAPS, INCLUDING SHAVING STICKS. DIE EAU DE COLOGNE- & PARFÜMERIE-FABRIK. "GLOCKENGASSE NO. 4711" GEGENÜBER DER PFERDEPOST VON FERD. MÜLHENS, Cologne-on-the-Rhine, Germany.
Filed December 29, 1926. Serial No. 242,102. PUBLISHED JULY 3, 1928. Class 4.

246,894. SOAPS, INCLUDING TOILET SOAPS AND SHAVING STICKS. DIE EAU DE COLOGNE- & PARFÜMERIE-FABRIK "GLOCKENGASSE NO. 4711" GEGENÜBER DER PFERDEPOST VON FERD MÜLHENS, Cologne-on-the-Rhine, Germany.
Filed December 28, 1926. Serial No. 242,048. PUBLISHED JULY 3, 1928. Class 4.

246,895. CANDY. JAMES J. MATCHETT CO., New York, N. Y., assignor to John T. Matchett, Brooklyn, N. Y.
Filed April 27, 1928. Serial No. 265,487. PUBLISHED JULY 3, 1928. Class 46.

246,896. BATTERIES AND BATTERY PLATES. THE ARCO BATTERY & PLATE CO., Fort Wayne, Ind.
Filed April 30, 1928. Serial No. 265,608. PUBLISHED JULY 3, 1928. Class 21.

246,897. RAYON AND SILK PIECE GOODS. SUSQUEHANNA SILK MILLS, New York, N. Y.
Filed April 28, 1928. Serial No. 265,587. PUBLISHED JUNE 26, 1928. Class 42.

246,898. SOAP FLAKES. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed April 28, 1928. Serial No. 265,561. PUBLISHED JUNE 19, 1928. Class 4.

246,899. TYPEWRITTEN AND PRINTED LETTERS. NEW ERA LETTER CO. INC., New York, N. Y.
Filed April 28, 1928. Serial No. 265,557. PUBLISHED JUNE 26, 1928. Class 38.

246,900. MONTHLY MAGAZINE. FIGHT STORIES, INC., New York, N. Y.
Filed April 28, 1928. Serial No. 265,531. PUBLISHED JULY 3, 1928. Class 38.

246,901. IRONING TABLES. THE FEDERAL WASHBOARD COMPANY, Tiffin, Ohio.
Filed April 28, 1928. Serial No. 265,528. PUBLISHED JULY 3, 1928. Class 24.

246,902. PRINT, WRAPPING, WRITING, BOOK, AND TISSUE PAPER. CORNSTALK PRODUCTS COMPANY, INC., New York, N. Y.
Filed April 28, 1928. Serial No. 265,525. PUBLISHED JULY 3, 1928. Class 37.

246,903. MINERAL WATER. HOWARD A. ROWE, Omaha, Nebr.
Filed April 27, 1928. Serial No. 265,500. PUBLISHED JULY 3, 1928. Class 45.

246,904. CORRESPONDENCE-SCHOOL LESSONS PUBLISHED IN A SERIES. PRACTICAL DRAFTING INSTITUTE OF AMERICA, Chicago, Ill.
Filed April 27, 1928. Serial No. 265,498. PUBLISHED JUNE 26, 1928. Class 38.

246,905. MEAT AND PRESERVES, MORE ESPECIALLY HAM IN TINS. NAAMLOOZE VENNOOTSCHAP E. NOACK'S KONINKLIJKE FIJNE VLEESCHWAREN- EN CONSERVENFABRIEKEN, Amersfoort, Netherlands.
Filed November 15, 1927. Serial No. 257,593. PUBLISHED JULY 3, 1928. Class 46.

246,906. CONFECTIONS—NAMELY, ICE-CREAM CONFECTIONS. ESKIMO PIE CORPORATION, Louisville, Ky.
Filed November 23, 1927. Serial No. 257,974. PUBLISHED JULY 3, 1928. Class 46.

246,907. REEDS FOR THE SAXOPHONE AND CLARIONET. BUEGELEISEN & JACOBSON, New York, N. Y.
Filed November 23, 1927. Serial No. 257,964. PUBLISHED JUNE 26, 1928. Class 36.

246,908. FRESH APPLES. FREI BROS., Santa Rosa and Sebastopol, Calif.
Filed April 17, 1928. Serial No. 264,976. PUBLISHED JULY 3, 1928. Class 46.

246,909. FOOD PREPARATIONS—NAMELY, PICKLE PREPARATIONS DESIGNATED SWEET CHOW, SWEET RELISH, AND PIMIENTO RELISH. JAMES A. AICARDI & SONS INC., Boston, Mass.
Filed April 23, 1928. Serial No. 265,249. PUBLISHED JULY 3, 1928. Class 46.

246,910. RAYON YARNS AND THREADS. NYRAYCO IMPORTING & CONVERTING CORP., New York, N. Y.
Filed April 23, 1928. Serial No. 265,286. PUBLISHED JULY 3, 1928. Class 43.

246,911. WOOLEN BLANKETS. PENDLETON WOOLEN MILLS, Portland, Oreg.
Filed April 23, 1928. Serial No. 265,292. PUBLISHED JULY 3, 1928. Class 42.

246,912. ARTIFICIAL BAIT. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed April 24, 1928. Serial No. 265,329. PUBLISHED JULY 3, 1928. Class 22.

246,913. CANNED BERRIES—NAMELY, STRAWBERRIES AND RASPBERRIES; CANNED FRUITS—NAMELY, CHERRIES, PEARS, AND APPLES; CANNED VEGETABLES—NAMELY, PEAS, ASPARAGUS, AND BEANS. SALTER CANNING COMPANY, North Rose, N. Y.
Filed April 23, 1928. Serial No. 265,298. PUBLISHED JULY 10, 1928. Class 46.

246,914. CAKES, PARTICULARLY HONEY BUNS. BEATRICE LOWENSTEIN, New York, N. Y.
Filed April 24, 1928. Serial No. 265,338. PUBLISHED JULY 10, 1928. Class 46.

246,915. RUBBER HEELS, SOLES, AND TAPS. MONARCH RUBBER HEELS CO., INC., Baltimore, Md.
Filed April 25, 1928. Serial No. 265,394. PUBLISHED JUNE 12, 1928. Class 39.

246,916. FRICTION BLOCKS, EDGER PIN STOCK, SAW GRINDS, AUTOMOTIVE AND INDUSTRIAL BRAKE LININGS, AND ASBESTOS FRICTION DRIVE RINGS. FRICTION PRODUCTS COMPANY, Aberdeen, Wash.
Filed April 26, 1928. Serial No. 265,430. PUBLISHED JULY 3, 1928. Class 35.

246,917. CHEMICAL COMPOSITION FOR STOPPING RUNS IN HOSIERY. JOHN D. LIPPY, Jr., doing business as David Ellsworth Company, Washington, D. C.
Filed April 26, 1928. Serial No. 265,436. PUBLISHED JUNE 26, 1928. Class 6.

246,918. ABRASIVE GRINDING STONES. ERNEST P. MARS, doing business as Superior Products Company, Chicago, Ill.
Filed April 26, 1928. Serial No. 265,441. PUBLISHED JUNE 26, 1928. Class 4.

246,919. SERIES OF CARTOONS. LOWRY CARTOON CORPORATION, Chicago, Ill.
Filed April 27, 1928. Serial No. 265,485. PUBLISHED JULY 3, 1928. Class 38.

246,920. FRESH DECIDUOUS FRUITS. ROCKY HILL CORPORATION, Exeter, Calif.
Filed November 12, 1927. Serial No. 257,484. PUBLISHED JANUARY 17, 1928. Class 46.

246,921. NONALCOHOLIC CORDIALS AND BEVERAGES SOLD AS SOFT DRINKS. DAVIS & COMPANY, St. Louis, Mo.
Filed November 10, 1927. Serial No. 257,349. PUBLISHED JULY 10, 1928. Class 45.

246,922. BEATERS FOR CULINARY PURPOSES INCLUDING EGG BEATERS AND CREAM WHIPS. WHITE AND HALLOCK, INC., Muskegon, Mich.
Filed November 7, 1927. Serial No. 257,209. PUBLISHED JULY 3, 1928. Class 23.

246,923. MONTHLY PUBLICATION. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood Station, Cincinnati, Ohio.
Filed May 2, 1928. Serial No. 265,709. PUBLISHED JULY 3, 1928. Class 38.

246,924. PUBLICATION PUBLISHED QUARTERLY. THE AMERICAN ASSOCIATION OF UNIVERSITY INSTRUCTORS IN ACCOUNTING, Columbus, Ohio.
Filed May 2, 1928. Serial No. 265,767. PUBLISHED JUNE 26, 1928. Class 38.

246,925. CAKES. TOLLEY CAKE CORPORATION, New York, N. Y.
Filed May 1, 1928. Serial No. 265,740. PUBLISHED JULY 3, 1928. Class 46.

246,926. BELT DRESSING IN LIQUID AND STICK FORM. WEBB BELTING CO., Kansas City, Mo.
Filed April 30, 1928. Serial No. 265,708. PUBLISHED JULY 3, 1928. Class 4.

246,927. ELECTRIC MOTORS. THE TRIUMPH ELECTRIC CORPORATION, Cincinnati, Ohio.
Filed April 30, 1928. Serial No. 265,707. PUBLISHED JULY 3, 1928. Class 21.

246,928. READY-MIXED PAINTS, VARNISHES, FLOOR DRESSINGS, AND FILLERS. JOSEPH CHRISTOPHER SHEPARD, Wilmington, N. C.
Filed April 30, 1928. Serial No. 265,699. PUBLISHED JULY 3, 1928. Class 16.

246,929. METAL SHEARS. NATIONAL MACHINE TOOL COMPANY, Racine, Wis.
Filed April 30, 1928. Serial No. 265,676. PUBLISHED JULY 10, 1928. Class 23.

246,930. BOND PAPER. THE CARTER-RICE & CARPENTER PAPER CO., Denver, Colo.
Filed April 30, 1928. Serial No. 265,618. PUBLISHED JUNE 19, 1928. Class 37.

246,931. WHEAT FLOUR. THE KANSAS MILL & ELEVATOR COMPANY, Arkansas City, Kans.
Filed April 30, 1928. Serial No. 265,651. PUBLISHED JULY 3, 1928. Class 46.

246,932. BOND PAPER. THE CARTER-RICE & CARPENTIER PAPER CO., Denver, Colo.
Filed April 30, 1928. Serial No. 265,617. PUBLISHED JUNE 19, 1928. Class 37.

246,933. COFFEE SUBSTITUTE. CALIFORNIA FIG-CO COMPANY INC., Los Angeles, Calif.
Filed April 30, 1928. Serial No. 265,615. PUBLISHED JULY 10, 1928. Class 46.

246,934. WOMEN'S SHAWLS AND SCARFS. EDGAR C. HYMAN CO., New York, N. Y.
Filed April 19, 1928. Serial No. 265,108. PUBLISHED JUNE 12, 1928. Class 39.

246,935. HOSIERY. SHEERTEX HOSIERY COMPANY, Woodbury, N. J.
Filed April 20, 1928. Serial No. 265,170. PUBLISHED JUNE 12, 1928. Class 39.

246,936. HOSIERY. SHEERTEX HOSIERY COMPANY, Woodbury, N. J.
Filed April 20, 1928. Serial No. 265,171. PUBLISHED JUNE 12, 1928. Class 39.

246,937. PRESSURE CONTROL AND RELIEF VALVES FOR OIL AND SIMILAR TANKS. J. A. CAMPBELL, Long Beach, Calif.
Filed April 21, 1928. Serial No. 265,193. PUBLISHED JULY 3, 1928. Class 13.

246,938. TROUSERS. DAY'S TAILOR-D WEAR, INC., Tacoma, Wash.
Filed April 21, 1928. Serial No. 265,198. PUBLISHED JUNE 12, 1928. Class 39.

246,939. TOILET SOAPS AND SHAVING SOAPS. SOCIETE ANONYME DONGE, Courbevoie, France.
Filed May 11, 1928. Serial No. 266,280. PUBLISHED JUNE 19, 1928. Class 4.

246,940. APPLES IN THEIR NATURAL FRESH STATE. ELGIN HEIGHTS COMMUNITY, Elgin, Ill.
Filed May 12, 1928. Serial No. 266,305. PUBLISHED JULY 10, 1928. Class 46.

246,941. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. FORT DODGE BOTTLING WORKS, Fort Dodge, Iowa.
Filed May 12, 1928. Serial No. 266,315. PUBLISHED JULY 10, 1928. Class 45.

246,942. DISINFECTANTS. FRANK B. NOBREGA, doing business as Central Chemical Company, Kansas City, Mo.
Filed May 12, 1928. Serial No. 266,327. PUBLISHED JUNE 26, 1928. Class 6.

246,943. FRESH GRAPEFRUIT. THE HILLS BROTHERS COMPANY, New York, N. Y.
Filed May 12, 1928. Serial No. 266,320. PUBLISHED JULY 3, 1928. Class 46.

246,944. COVER PAPER, BRISTOL, AND CARDBOARD. THE BEVERIDGE PAPER COMPANY, Indianapolis, Ind.
Filed May 14, 1928. Serial No. 266,349. PUBLISHED JULY 3, 1928. Class 37.

246,945. PENCIL AND INK TABLETS, NOTEBOOKS, COMPOSITION BOOKS, DRAWING PAPER AND TABLETS, BLANK MUSIC BOOKS, SPELLING TABLETS, BLANK SPELLING BOOKS, AND THESIS AND EXAMINATION TABLETS. BLACKWELL WIELANDT COMPANY, St. Louis, Mo.
Filed May 14, 1928. Serial No. 266,350. PUBLISHED JUNE 19, 1928. Class 37.

246,946. COFFEE. R. S. GEHLERT & Co., Detroit, Mich.
Filed May 14, 1928. Serial No. 266,368. PUBLISHED JULY 3, 1928. Class 46.

246,947. MALT SYRUP. OHIO MALT PRODUCTS CO., Toledo, Ohio.
Filed May 14, 1928. Serial No. 266,395. PUBLISHED JULY 3, 1928. Class 46.

246,948. CEREAL FOOD PRODUCT. SCOTT H. PEAKY, doing business as Perky Products, Batavia, N. Y.
Filed May 14, 1928. Serial No. 266,398. PUBLISHED JULY 3, 1928. Class 46.

246,949. IMPLEMENTS FOR PUSHING PIPES THROUGH THE GROUND KNOWN AS PIPE PUSHERS, WINDMILLS AND REPAIR AND REPLACEMENT PARTS THEREOF, GARDEN-CULTIVATING IMPLEMENTS KNOWN AS GARDEN RAISERS, AND FEED GRINDERS. CHARLES D. AMMON, doing business as The Easy Manufacturing Co., Lincoln, Nebr.
Filed May 15, 1928. Serial No. 266,413. PUBLISHED JULY 10, 1928. Class 23.

246,950. WHEAT FLOUR. MONTANA FLOUR MILLS COMPANY, also doing business as Bozeman Milling Company, Great Falls, Mont.
Filed May 15, 1928. Serial No. 266,435. PUBLISHED JULY 3, 1928. Class 46.

246,951. TOWELS, TOWELING, AND WASH CLOTHS OF COTTON TERRY CLOTH. NATIONAL BELLAS HESS CO. INC., New York, N. Y.
Filed May 15, 1928. Serial No. 266,437. PUBLISHED JULY 10, 1928. Class 42.

246,952. POLISHING AND CLEANING PREPARATIONS FOR GLASS. RECKITT & SONS, LIMITED, Hull, England.
Filed May 15, 1928. Serial No. 266,440. PUBLISHED JULY 3, 1928. Class 4.

246,953. PERIODICAL PUBLICATION. THE CHAIN STORE PUBLISHING CORPORATION, New York, N. Y.
Filed May 17, 1928. Serial No. 266,516. PUBLISHED JULY 3, 1928. Class 38.

246,954. DRY CLEANER FOR ALL KINDS OF CLOTHS AND FABRICS AND A POLISHER AND CLEANER FOR POLISHED METALS. OLD MASTER LABORATORIES, INC., New York, N. Y.
Filed November 21, 1927. Serial No. 257,890. PUBLISHED JANUARY 17, 1928. Class 4.

246,955. SHAVING CREAM FOR USE BEFORE SHAVING, AND SOAP SHAMPOO. THE MENTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y.
Filed November 19, 1927. Serial No. 257,808. PUBLISHED JULY 3, 1928. Class 4.

246,956. LADIES' HATS. CATALINA HATS, INC., San Francisco, Calif.
Filed April 18, 1928. Serial No. 265,034. PUBLISHED JUNE 19, 1928. Class 39.

246,957. TIRE GAUGES. HANDY TIRE GAUGE MANUFACTURING COMPANY, Syracuse, N. Y.
Filed April 18, 1928. Serial No. 265,046. PUBLISHED JULY 3, 1928. Class 26.

246,958. FOOD FLAVORS. HARRISON M. LEVY, doing business as Zebest Products Co. of California, Los Angeles, Calif.
Filed April 18, 1928. Serial No. 265,048. PUBLISHED JULY 3, 1928. Class 46.

246,959. PERIODICAL PUBLISHED ANNUALLY. F. W. DODGE CORPORATION, New York, N. Y.
Filed April 19, 1928. Serial No. 265,095. PUBLISHED JUNE 26, 1928. Class 38.

246,960. PERIODICAL PUBLISHED ANNUALLY. F. W. DODGE CORPORATION, New York, N. Y.
Filed April 19, 1928. Serial No. 265,096. PUBLISHED JUNE 26, 1928. Class 38.

246,961. WASHING SOLUTION WITH INCIDENTAL BLEACHING PROPERTIES. THERESA MARIE MESSIER, doing business as A. R. Messier Co., Schenectady, N. Y.
Filed April 5, 1928. Serial No. 264,379. PUBLISHED JUNE 26, 1928. Class 4.

246,962. JAM. LIBERTY ORCHARDS COMPANY, Cashmere, Wash.
Filed September 7, 1927. Serial No. 254,463. PUBLISHED JULY 10, 1928. Class 46.

246,963. ASH TRAYS AND CIGAR AND CIGARETTE EXTINGUISHERS. REGINALD C. THOMAS, Brooklyn, N. Y.
Filed September 3, 1927. Serial No. 254,366. PUBLISHED JULY 10, 1928. Class 8.

246,964. CANNED PORK AND BEANS, CANNED BLACKBERRIES, CANNED FIGS, COMPOUND FIG AND CORN SYRUP, AND CANNED VEGETABLES—NAMELY, CANNED LIMA BEANS, CANNED STRINGLESS BEANS, CANNED MUSTARD GREENS, AND CANNED TURNIP GREENS. ORANGE PRODUCTS CO., Orange, Tex.
Filed September 7, 1927. Serial No. 254,470. PUBLISHED JULY 3, 1928. Class 46.

246,965. LEATHER SHOES. PIKES HIKES, INC., Chicago, Ill.
Filed September 21, 1927. Serial No. 255,027. PUBLISHED MAY 15, 1928. Class 39.

246,966. CIGARETTES. BATT BROTHERS, New York, N. Y.
Filed September 22, 1927. Serial No. 255,047. PUBLISHED JULY 3, 1928. Class 17.

246,967. NONREFRACTORY MELTING POTS FORMED OF CAST METAL. AMERICAN CAR AND FOUNDRY COMPANY, New York, N. Y.
Filed September 30, 1927. Serial No. 255,427. PUBLISHED NOVEMBER 29, 1927. Class 34.

246,968. CANDIES. MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed October 12, 1927. Serial No. 256,000. PUBLISHED JULY 3, 1928. Class 46.

246,969. COTTON DUCK IN THE PIECE. WILLIAM L. BARRELL CO. OF NEW YORK, INC., New York, N. Y.
Filed October 21, 1927. Serial No. 256,438. PUBLISHED JANUARY 31, 1928. Class 42.

246,970. TENTS, TARPAULINS, AND WAGON COVERS. W. F. CRAWFORD COMPANY, Waco, Tex.
Filed October 22, 1927. Serial No. 256,453. PUBLISHED MARCH 20, 1928. Class 50.

246,971. FRESH, SALT, AND PICKLED FISH. SAN JUAN FISHING & PACKING CO., Seattle, Wash.
Filed October 24, 1927. Serial No. 256,544. PUBLISHED JULY 3, 1928. Class 46.

246,972. ELECTRIC SADIRONS, ELECTRIC PERCOLATORS, ELECTRIC TOASTERS, ELECTRIC WAFFLE MOULDS, ELECTRIC STOVES, ELECTRIC GRIDDLES, ELECTRIC PLUGS, ELECTRIC CORD SETS, ELECTRIC PERCOLATOR SETS, AND ELECTRIC WAFFLE-MOULD SETS. MALDA ELECTRIC MANUFACTURING COMPANY, Chicago, Ill.
Filed November 2, 1927. Serial No. 256,951. PUBLISHED JULY 3, 1928. Class 21.

246,973. ELECTRIC SADIRONS, ELECTRIC PERCOLATORS, ELECTRIC TOASTERS, ELECTRIC WAFFLE MOULDS, ELECTRIC STOVES, ELECTRIC GRIDDLES, ELECTRIC PERCOLATOR SETS, ELECTRIC WAFFLE-MOULD SETS, ELECTRIC PLUGS, AND ELECTRIC CORD SETS. MALDA ELECTRIC MANUFACTURING COMPANY, Chicago, Ill.
Filed November 2, 1927. Serial No. 256,952. PUBLISHED JULY 3, 1928. Class 21.

246,974. CHEMICAL COMPOUND TO STRENGTHEN AND PRESERVE SILK AND PREVENT SHRINKAGE OF WOOLENS. JOSEPH A. WEIL, Evanston, Ill.
Filed November 16, 1927. Serial No. 257,647. PUBLISHED JUNE 19, 1928. Class 6.

246,975. FRESH VEGETABLES—NAMELY, TOMATOES. IMPERIAL PRODUCE COMPANY, Los Angeles, Calif.
Filed November 17, 1927. Serial No. 257,678. PUBLISHED JULY 10, 1928. Class 46.

246,976. VEHICLE TIRES OF RUBBER OR RUBBER AND FABRIC, INNER TUBES FOR VEHICLE TIRES, REPAIR PATCHES OF RUBBER AND RUBBER AND FABRIC. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 29, 1926. Serial No. 239,408. PUBLISHED JULY 3, 1928. Class 35.

246,977. CHEWING GUM. THE MINT GUM COMPANY, New York, N. Y.
Filed September 17, 1926. Serial No. 237,381. PUBLISHED NOVEMBER 2, 1926. Class 46.

246,978. CHEWING GUM. THE MINT GUM COMPANY, New York, N. Y.
Filed September 17, 1926. Serial No. 237,380. PUBLISHED NOVEMBER 2, 1926. Class 46.

246,979. PILE FABRICS IN THE PIECE. A. T. BAKER & CO. INC., Manayunk, Philadelphia, Pa.
Filed August 4, 1926. Serial No. 235,540. PUBLISHED JULY 3, 1928. Class 42.

246,980. MEDICINAL PREPARATIONS FOR THE TREATMENT OF CONSTIPATION, PLEURISY, CATARRH, NEURALGIA, RHEUMATISM, AND KIDNEY AND LIVER COMPLAINTS. THE BRADIGAN TABLET CONCERN, Jamestown, N. Y.
Filed July 30, 1926. Serial No. 235,360. PUBLISHED JULY 3, 1928. Class 6.

246,981. OIL BURNERS. GRANT OIL BURNER CORPORATION, New York, N. Y.
Filed April 23, 1926. Serial No. 230,623. PUBLISHED JULY 3, 1928. Class 34.

246,982. WASHING AND CLEANSING FLUID. B. R. M. COMPANY, Royal Oak, Mich., assignor to Rocco Brothers, Royal Oak, Mich.
Filed March 17, 1926. Serial No. 228,731. PUBLISHED JUNE 19, 1928. Class 4.

246,983. CONCENTRATED EXTRACTS AND SYRUPS FOR MAKING NONALCOHOLIC, MALTLESS BEVERAGES. F. B. CHAMBERLAIN COMPANY, East St. Louis, Ill., and St. Louis, Mo.
Filed May 20, 1925. Serial No. 214,586. PUBLISHED JANUARY 17, 1928. Class 45.

246,984. DRESSES. THE STYLE-RITE DRESS COMPANY, Cleveland, Ohio.
Filed October 28, 1927. Serial No. 256,749. PUBLISHED APRIL 10, 1928. Class 39.

246,985. CANNED CLAM CHOWDER. JOHN F. SEETH, Bellerose, N. Y.
Filed May 7, 1928. Serial No. 266,051. PUBLISHED JULY 10, 1928. Class 46.

246,986. MOPS AND MOP HEADS. W. A. BALLINGER, doing business as W. A. Ballinger & Co., San Francisco, Calif.
Filed May 7, 1928. Serial No. 266,013. PUBLISHED JULY 3, 1928. Class 29.

246,987. COMBINATION OF METALLIC OXIDES FOR USE IN THE COMPOUNDING OF RUBBER. E. M. & F. WALDO, INC., Muirkirk, Md.
Filed May 5, 1928. Serial No. 265,999. PUBLISHED JUNE 19, 1928. Class 6.

246,988. RAZOR BLADES. IRA J. SHAPIRO, New York, N. Y.
Filed May 5, 1928. Serial No. 265,988. PUBLISHED JULY 3, 1928. Class 23.

246,989. PUBLICATION ISSUED MONTHLY. ROBERT THOMAS HARDY, New York, N. Y.
Filed May 5, 1928. Serial No. 265,962. PUBLISHED JUNE 19, 1928. Class 38.

246,990. ELECTRIC TOASTERS. THE BEARDSLEY & WOLCOTT MFG. CO., Hartford, Conn.
Filed May 5, 1928. Serial No. 265,940. PUBLISHED JULY 3, 1928. Class 21.

246,991. LUBRICATING OILS. THE ZIP ABRASIVE COMPANY, Cleveland, Ohio.
Filed May 4, 1928. Serial No. 265,938. PUBLISHED JULY 3, 1928. Class 15.

246,992. SOLID ROUND BELT MANUFACTURED FROM IMPORTED LEATHER. WEBB BELTING CO., Kansas City, Mo.
Filed May 4, 1928. Serial No. 265,937. PUBLISHED JULY 3, 1928. Class 35.

246,993. EVAPORATED APPLES. STANDARD APPLE PRODUCTS INC., Hamlin, N. Y.
Filed May 4, 1928. Serial No. 265,935. PUBLISHED JULY 3, 1928. Class 46.

246,994. RADIOCABINETS, LOUD-SPEAKER CABINETS ALL DEVOID OF RADIO OR PHONOGRAPHIC APPARATUS; PHONOGRAPH CABINETS, STANDS, AND TABLES. SPLITDORF RADIO CORPORATION, Newark, N. J.
Filed May 4, 1928. Serial No. 265,934. PUBLISHED JULY 10, 1928. Class 32.

246,995. COTTON PIECE GOODS AND SHADE CLOTH. ALBERT D. SMITH & CO., New York, N. Y.
Filed May 4, 1928. Serial No. 265,932. PUBLISHED JULY 10, 1928. Class 42.

246,996. STEEL CABINETS AND CUPBOARDS, KITCHENETTE UNITS, AND METAL CABINETS AND CASES FOR HOSPITAL AND HOTEL USE. PROSTEEL COMPANY, Chicago, Ill.
Filed May 4, 1928. Serial No. 265,928. PUBLISHED JULY 3, 1928. Class 32.

246,997. HONEY. THE JOHN G. PATON COMPANY, INC., New York, N. Y.
Filed May 4, 1928. Serial No. 265,926. PUBLISHED JULY 3, 1928. Class 46.

246,998. COLOR CHARTS AND PAMPHLETS. AMERICAN WRITING PAPER COMPANY, INC., Holyoke, Mass.
Filed May 4, 1928. Serial No. 265,877. PUBLISHED JULY 3, 1928. Class 38.

246,999. SOAP. MART GUILD INCORPORATED, New York, N. Y.
Filed May 3, 1928. Serial No. 265,850. PUBLISHED JUNE 19, 1928. Class 4.

247,000. BIRD FOOD. WILLIAM MACK, doing business as Nu-Song Co., Dayton, Ohio.
Filed May 3, 1928. Serial No. 265,849. PUBLISHED JULY 10, 1928. Class 46.

247,001. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME, AND MINERAL WATERS, TABLE WATERS, AND SPRING WATERS. LEIGHTON H. KIRKPATRICK, Walsenburg, Colo.
Filed May 3, 1928. Serial No. 265,845. PUBLISHED JULY 10, 1928. Class 45.

247,002. SHORTENING CONSISTING OF BLENDED OR MIXED HARDENED OILS AND FATS FOR USE IN THE MAKING OF CAKES, PASTRIES, BREADS, AND OTHER FOOD PRODUCTS. MUSHER AND COMPANY, Washington, D. C.
Filed May 3, 1928. Serial No. 265,840. PUBLISHED JULY 3, 1928. Class 46.

247,003. BRIEF CASES AND SCHOOL BAGS OF LEATHER, CANVAS, AND OTHER COMPOSITIONS. REX LEATHER GOODS CORP., New York, N. Y.
Filed May 2, 1928. Serial No. 265,809. PUBLISHED JULY 10, 1928. Class 3.

247,004. BRIEF CASES AND SCHOOL BAGS OF LEATHER, CANVAS, AND OTHER COMPOSITIONS. REX LEATHER GOODS CORP., New York, N. Y.
Filed May 2, 1928. Serial No. 265,808. PUBLISHED JULY 10, 1928. Class 3.

247,005. WEEKLY MAGAZINE. THE JACOBSEN PUBLISHING COMPANY, Chicago, Ill.
Filed May 17, 1928. Serial No. 266,543. PUBLISHED JULY 3, 1928. Class 38.

247,006. COLORED ADVERTISING INSERTS FOR MAGAZINES. WALTER C. MCMILLAN INC., New York, N. Y.
Filed April 21, 1928. Serial No. 265,229. PUBLISHED JUNE 26, 1928. Class 38.

247,007. MALT SYRUP. SAM'L. STONE, doing business as The Stone Malt Co., Columbus, Ohio.
Filed April 13, 1928. Serial No. 264,783. PUBLISHED JUNE 19, 1928. Class 46.

247,008. STEEL. VULCAN CRUCIBLE STEEL CO., Aliquippa, Pa.
Filed April 13, 1928. Serial No. 264,785. PUBLISHED JULY 3, 1928. Class 14.

247,009. PIPE-CUTTING-OFF AND PIPE-THREADING TOOLS, PIPE WRENCHES, PIPE TONGS, PIPE VISES, AND PIPE STOCKS AND DIES. ARMSTRONG BROS. TOOL CO., Chicago, Ill.
Filed April 16, 1928. Serial No. 264,860. PUBLISHED JULY 10, 1928. Class 23.

247,010. TOY WAGONS. CLIFTON C. ALLES, Los Angeles, Calif.
Filed April 16, 1928. Serial No. 264,859. PUBLISHED JULY 3, 1928. Class 22.

247,011. DRIED FRUITS. GARCIA & MAGGINI COMPANY, San Francisco, Calif.
Filed April 16, 1928. Serial No. 264,876. PUBLISHED JUNE 19, 1928. Class 46.

247,012. WRITING AND COVER PAPER. BYRON WESTON COMPANY, Dalton, Mass.
Filed April 16, 1928. Serial No. 264,869. PUBLISHED JUNE 19, 1928. Class 37.

247,013. PREPARATION FOR CLEANING HANDS. JESSE LE ROY MCFAIL, doing business as McFail & Company, St. Louis, Mo.
Filed April 16, 1928. Serial No. 264,897. PUBLISHED JUNE 26, 1928. Class 4.

247,014. LUBRICATING OILS. SINCLAIR REFINING COMPANY, New York, N. Y.
Filed May 10, 1928. Serial No. 266,223. PUBLISHED JULY 3, 1928. Class 15.

247,015. NEWSPAPER COLUMNS. GEORGE WM. BROWN, Clinton, Iowa.
Filed May 11, 1928. Serial No. 266,238. PUBLISHED JULY 3, 1928. Class 38.

247,016. MONTHLY PUBLICATION. NATIONAL INDUSTRIAL CONFERENCE BOARD, INC., New York, N. Y.
Filed May 11, 1928. Serial No. 266,260. PUBLISHED JULY 3, 1928. Class 38.

247,017. SEMIMONTHLY PUBLICATION. NATIONAL INDUSTRIAL CONFERENCE BOARD, INC., New York, N. Y.
Filed May 11, 1928. Serial No. 266,261. PUBLISHED JULY 3, 1928. Class 38.

247,018. SODA WATER, ICE-CREAM SODA WATER, LEMON PHOSPHATE, PHOSPHATES IN OTHER FLAVORS, LEMONADE, AND THE SAME BEVERAGE IN OTHER FLAVORS. THE MIRROR, New York, N. Y.
Filed March 14, 1928. Serial No. 263,168. PUBLISHED JULY 10, 1928. Class 45.

247,019. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. TEAGUE-MCKEVETT COMPANY, Santa Paula, Calif.
Filed June 21, 1927. Serial No. 250,871. PUBLISHED JULY 10, 1928. Class 46.

247,020. SCHOOL WRITING BOOKS AND TABLETS. THE PAPER SUPPLY COMPANY, INC., Minneapolis, Minn.
Filed June 18, 1927. Serial No. 250,758. PUBLISHED JULY 3, 1928. Class 37.

247,021. CLEANING FLUID FOR CLEANING GLOVES, LACES, VELVETS, CHIFFONS, SILKS, CARPETS, CANVAS, SUÈDE, BUCKSKIN, AND KID GLOVES. ANNABELL H. BEGGS, doing business as H-O Chemical Company, Denver, Colo.
Filed May 16, 1927. Serial No. 249,039. PUBLISHED OCTOBER 25, 1927. Class 4.

247,022. INFANTS' CARRIAGE COVERS MADE OF TEXTILE. PARADISE KOVERITE CO., New York, N. Y.
Filed April 22, 1927. Serial No. 247,867. PUBLISHED JULY 3, 1928. Class 42.

247,023. RADIO VACUUM TUBES. GOLD SEAL ELECTRICAL COMPANY, INC., New York, N. Y.
Filed February 1, 1928. Serial No. 260,997. PUBLISHED JUNE 19, 1928. Class 21.

247,024. BRICK AND BUILDING TILE. ACME BRICK COMPANY, Fort Worth, Tex.
Filed April 23, 1928. Serial No. 265,248. PUBLISHED JUNE 26, 1928. Class 12.

247,025. READY-MIXED PAINT. LOUIS FOLLMAN, New York, N. Y.
Filed April 5, 1928. Serial No. 264,370. PUBLISHED JULY 3, 1928. Class 16.

247,026. TOILET SOAP. CHARLES A. CRARY, Wyoming, Cincinnati, Ohio.
Filed April 5, 1928. Serial No. 264,362. PUBLISHED JUNE 26, 1928. Class 4.

247,027. BOOKLETS PUBLISHED FROM TIME TO TIME. THE ASSOCIATION OF GRAY LINE OWNERS, Baltimore, Md.
Filed April 7, 1928. Serial No. 264,503. PUBLISHED JUNE 19, 1928. Class 38.

247,028. LADIES' GARTERS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 16, 1928. Serial No. 264,905. PUBLISHED JUNE 12, 1928. Class 39.

247,029. CONFECTION IN THE FORM OF LOOSELY-MIXED NUTS AND RAISINS. MARY PILLOW FRENCH, doing business as Contrary Mary Prod. Co., Greenwood, Miss.
Filed April 7, 1928. Serial No. 264,514. PUBLISHED JULY 10, 1928. Class 46.

247,030. LAMP REFLECTORS OF SILVERED GLASS INCLUDING SHOW-WINDOW REFLECTORS, CONE-LIGHTING REFLECTORS, SPOT AND FLOOD LIGHT REFLECTORS FOR STORES AND INDUSTRIAL PURPOSES, REFLECTORS FOR ILLUMINATION FOR PUBLIC PURPOSES, AND FITTINGS, HOLDERS, AND ADAPTORS FOR ALL SUCH REFLECTORS. PITTSBURGH REFLECTOR COMPANY, Pittsburgh, Pa.
Filed April 7, 1928. Serial No. 264,532. PUBLISHED JULY 3, 1928. Class 34.

247,031. DESKS, CHAIRS FOR HOUSEHOLD OR OFFICE USE, AND BOOK ENDS. THE MAJESTIC Co., Huntington, Ind.
Filed April 7, 1928. Serial No. 264,526. PUBLISHED JULY 10, 1928. Class 32.

247,032. HOLLOW TILE BUILDING BLOCKS. UNIVERSAL TILE CORPORATION OF AMERICA, Milledgeville, Ga.
Filed April 16, 1928. Serial No. 264,928. PUBLISHED JUNE 19, 1928. Class 12.

247,033. UMBRELLAS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 16, 1928. Serial No. 264,909. PUBLISHED JUNE 12, 1928. Class 41.

247,034. WRITING AND OTHER PAPER. TILESTON & HOLLINGSWORTH COMPANY, Boston, Mass.
Filed April 7, 1928. Serial No. 264,543. PUBLISHED JUNE 26, 1928. Class 37.

247,035. CANDIED FRUIT—NAMELY, GLACÉ PINEAPPLE. HAWAIIAN PACKING COMPANY, LTD., Hilo, Territory of Hawaii.
Filed Apr. 9, 1928. Serial No. 264,580. PUBLISHED JULY 10, 1928. Class 46.

247,036. CIGARS. JAMES H. CRANEY, doing business as George F. Madden & Co., Norwich, Conn.
Filed May 12, 1928. Serial No. 266,302. PUBLISHED JULY 10, 1928. Class 17.

247,037. PENCILS AND PENCIL CASES. BAILEY'S AGENCIES LIMITED, London, England.
Filed April 17, 1928. Serial No. 264,943. PUBLISHED JUNE 26, 1928. Class 37.

247,038. COFFEE. HALE-HALSELL COMPANY, McAlester, Okla.
Filed April 21, 1928. Serial No. 265,210. PUBLISHED JULY 3, 1928. Class 46.

247,039. MILL FEEDS. LAWRENCEBURG ROLLER MILLS Co., Lawrenceburg, Ind.
Filed April 21, 1928. Serial No. 265,218. PUBLISHED JULY 10, 1928. Class 46.

247,040. MISSES' AND LADIES' DRESSES AND COATS. BEST-EVER COSTUME Co. INC., New York, N. Y.
Filed April 17, 1928. Serial No. 264,958. PUBLISHED JUNE 19, 1928. Class 39.

247,041. LADIES', MISSES', AND CHILDREN'S DRESSES AND APRONS OF ALL KINDS MADE OF COTTON, SILK, WOOL, ARTIFICIAL SILK, RAYON, OR COMBINATIONS OF THESE FABRICS. ELY & WALKER DRY GOODS Co., St. Louis, Mo.
Filed April 17, 1928. Serial No. 264,973. PUBLISHED JUNE 19, 1928. Class 39.

247,042. WATCHES, WATCH MOVEMENTS, WATCH-CASES, AND PARTS OF WATCHES. FEDERAL MAIL ORDER CORPORATION, New York, N. Y.
Filed April 17, 1928. Serial No. 264,974. PUBLISHED JULY 3, 1928. Class 27.

247,043. MECHANICAL DEVICES FOR REWINDING RIBBONS. TYBON CORPORATION, Camden, N. J.
Filed April 7, 1928. Serial No. 264,545. PUBLISHED JULY 10, 1928. Class 23.

247,044. CANES, UMBRELLAS, AND PARASOLS. LIBERTY UMBRELLA COMPANY, New York, N. Y.
Filed April 9, 1928. Serial No. 264,590. PUBLISHED JUNE 5, 1928. Class 41.

247,045. SMOKING AND CHEWING TOBACCO. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C.
Filed April 11, 1928. Serial No. 264,669. PUBLISHED JULY 3, 1928. Class 17.

247,046. TRAFFIC MARKERS TO BE INSERTED IN PAVEMENTS AT STREET CROSSINGS. THE KILBORN & BISHOP Co., New Haven, Conn.
Filed April 11, 1928. Serial No. 264,688. PUBLISHED JULY 3, 1928. Class 14.

247,047. ENVELOPES. CURTIS 1000, INC., St. Paul, Minn.
Filed April 12, 1928. Serial No. 264,717. PUBLISHED JUNE 26, 1928. Class 37.

247,048. LAXATIVE PILLS. NATURE'S PRODUCTS COMPANY, Los Angeles, Calif.
Filed April 12, 1928. Serial No. 264,733. PUBLISHED MAY 29, 1928. Class 6.

247,049. CANNED FRUITS—NAMELY, CANNED GRAPEFRUIT AND CANNED PINEAPPLE. SCOVILLE & Co., INC., San Juan, P. R.
Filed April 12, 1928. Serial No. 264,737. PUBLISHED JULY 3, 1928. Class 46.

247,050. BATTERIES. ROGER G. LAPITE, doing business as Automotive Manufacturing Company, Kansas City, Mo.
Filed April 13, 1928. Serial No. 264,760. PUBLISHED JULY 3, 1928. Class 21.

247,051. FLAVORING EXTRACTS FOR FOODS; CANNED MEATS—NAMELY, SLICED BEEF BREAKFAST SAUSAGE, TRIPE, COOKED PORK BRAINS, COOKED CORNED BEEF, ROAST BEEF, VIENNA SAUSAGE, AND POTTED MEAT PRODUCTS; AND CATSUP. C. W. ZARING & Co., Jacksonville, Fla.
Filed July 25, 1927. Serial No. 252,539. PUBLISHED FEBRUARY 21, 1928. Class 46.

247,052. SYRUP TO BE USED AS AN INGREDIENT IN THE PREPARATION OF FROZEN CONFECTIONS. BESSIE NOLAND DAVIES, doing business as Shamrock Cordial Co., Austin, Tex.
Filed July 21, 1927. Serial No. 252,370. PUBLISHED JUNE 12, 1928. Class 46.

247,053. WHEAT FLOUR. GALVESTON MILLS, Gretna, Va.
Filed July 18, 1927. Serial No. 252,244. PUBLISHED JULY 10, 1928. Class 46.

247,054. CANNED DECIDUOUS FRUITS, CANNED VEGETABLES. JOHN ROTHSCHILD & Co. INC., San Francisco, Calif.
Filed July 14, 1927. Serial No. 252,066. PUBLISHED JULY 10, 1928. Class 46.

247,055. JUVENILE AND GENERAL BOOK LINE, BOTH POETRY AND PROSE, GIFT BOOKS, RECIPE BOOKS, AND RECIPE CALENDARS. THE BUZZA COMPANY, Minneapolis, Minn.
Filed July 5, 1927. Serial No. 251,484. PUBLISHED JUNE 19, 1928. Class 38.

247,056. PORTABLE HAND FIRE-EXTINGUISHING APPARATUS. GENERAL CARBONIC COMPANY, New York, N. Y., assignor to Fyre Freez Corporation, a Corporation of New York.
Filed July 2, 1927. Serial No. 251,438. PUBLISHED OCTOBER 25, 1927. Class 23.

247,057. COTTON, ARTIFICIAL SILK, AND WORSTED YARNS. BERNHARD ULMANN Co. INC., New York, N. Y.
Filed June 1, 1928. Serial No. 267,294. PUBLISHED JULY 10, 1928. Class 43.

247,058. CIGARS. PHILIPPINE TOBACCO Co., INC., New York, N. Y.
Filed May 29, 1928. Serial No. 267,206. PUBLISHED JULY 10, 1928. Class 17.

247,059. CIGARS. MINERVA CIGAR CORPORATION, INC., New York, N. Y.
Filed May 29, 1928. Serial No. 267,201. PUBLISHED JULY 10, 1928. Class 17.

247,060. SAFETY-RAZOR BLADES. LESTER WHITCUP, New York, N. Y.
Filed May 28, 1928. Serial No. 267,171. PUBLISHED JULY 10, 1928. Class 23.

247,061. CERTAIN SMOKERS' ARTICLES. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,156. PUBLISHED JULY 10, 1928. Class 8.

247,062. RAYON FABRICS IN THE PIECE. WILSON RAYON PRODUCTS CORPORATION, New York, N. Y.
Filed May 25, 1928. Serial No. 267,023. PUBLISHED JULY 10, 1928. Class 42.

247,063. FRESH GRAPES. E. A. COUTURE, Modesto, Calif.
Filed May 25, 1928. Serial No. 266,976. PUBLISHED JULY 10, 1928. Class 46.

247,064. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co., INC., New York, N. Y.
Filed May 25, 1928. Serial No. 266,970. PUBLISHED JULY 10, 1928. Class 42.

247,065. PILLOWS. CHAS. EMMERICH AND Co., Chicago, Ill.
Filed May 25, 1928. Serial No. 266,983. PUBLISHED JULY 10, 1928. Class 32.

247,066. EGGS. EIDINGER & HAGER, INC., New York, N. Y.
Filed May 25, 1928. Serial No. 266,982. PUBLISHED JULY 10, 1928. Class 46.

247,067. SILK, SILK AND RAYON, AND SILK AND WOOL MIXTURE PIECE GOODS. H. R. MALLINSON & Co. INC., New York, N. Y.
JULY 10, 1928. Class 42.
Filed May 24, 1928. Serial No. 266,941. PUBLISHED

247,068. MAGAZINE PUBLISHED MONTHLY. DOUBLEDAY, DORAN & COMPANY, INC., Garden City, N. Y.
Filed May 24, 1928. Serial No. 266,919. PUBLISHED JULY 3, 1928. Class 38.

247,069. HOUSE ORGAN ISSUED FROM TIME TO TIME. TOLEDO SCALE COMPANY, Jersey City, N. J., and Toledo, Ohio.
Filed May 7, 1928. Serial No. 266,058. PUBLISHED JULY 3, 1928. Class 38.

247,070. CLEANING FLUID FOR REMOVING STAINS AND GREASE. ELMER G. TURCOTTE, doing business as Premier Laboratories, Providence, R. I.
Filed May 7, 1928. Serial No. 266,061. PUBLISHED JUNE 26, 1928. Class 4.

247,071. CANNED VEGETABLES. FRIDAY CANNING CORPORATION, New Richmond, Wis.
Filed January 28, 1928. Serial No. 260,819. PUBLISHED JULY 10, 1928. Class 46.

247,072. MONTHLY MAGAZINE. THE MAYERS COMPANY, INCORPORATED, Los Angeles, Calif.
Filed January 25, 1928. Serial No. 260,645. PUBLISHED JUNE 26, 1928. Class 38.

247,073. CANNED CRANBERRY SAUCE. THE HILLS BROTHERS COMPANY, New York, N. Y.
Filed January 24, 1928. Serial No. 260,566. PUBLISHED JULY 10, 1928. Class 46.

247,074. TEXTILE MACHINES. OSCAR FREIHERR VON KOHORN ZU KORNEGG, doing business as Oscar Kohorn & Co., Vienna, Austria.
Filed January 23, 1928. Serial No. 260,543. PUBLISHED JULY 10, 1928. Class 23.

247,075. TEXTILES OF LINEN. A. S. HERRMANN, INC., New York, N. Y.
Filed January 20, 1928. Serial No. 260,384. PUBLISHED JULY 10, 1928. Class 42.

247,076. SATCHELS, HAND BAGS, TRAVELING BAGS, VALISES, TRUNKS, VANITY PACKAGES, HAT-BOXES, AND BRIEF CASES MADE FROM LEATHER. ANDRÉ PERUGIA, Paris, France.
Filed January 14, 1928. Serial No. 260,134. PUBLISHED JULY 3, 1928. Class 3.

247,077. MODIFIED CHECKER GAME. THOMAS E. CAHILL, doing business as The Checkeroll Company, Ardmore, Pa.
Filed January 12, 1928. Serial No. 259,994. PUBLISHED JULY 3, 1928. Class 22.

247,078. PAINTBRUSHES. POHLMEYER, INC., Wallington, N. J.
Filed January 9, 1928. Serial No. 259,871. PUBLISHED JULY 3, 1928. Class 29.

247,079. PURE OLIVE OIL. CARBONELL Y CA., Cordoba, Spain.
Filed January 9, 1928. Serial No. 259,842. PUBLISHED JULY 3, 1928. Class 46.

247,080. CAKES, ROLLS, BREAD, PIE, TOAST, AND DOUGHNUTS. HAPPINESS BAKERIES, INC., St. Paul, Minn.
Filed January 6, 1928. Serial No. 259,768. PUBLISHED APRIL 3, 1928. Class 46.

247,081. PRINTED LISTS OF HOUSEHOLD COMMODITIES. BB VIER AND CO., INC., New York, N. Y.
Filed January 5, 1928. Serial No. 259,709. PUBLISHED JULY 3, 1928. Class 38.

247,082. HOUSEHOLD CLEANSING PREPARATION. WILLIAM EARL BAUER, doing business as Bauer & Bauer, Norristown, Pa.
Filed January 5, 1928. Serial No. 259,707. PUBLISHED JULY 3, 1928. Class 4.

247,083. HOUSEHOLD CLEANSING PREPARATION. WILLIAM EARL BAUER, doing business as Bauer & Bauer, Norristown, Pa.
Filed January 5, 1928. Serial No. 259,706. PUBLISHED JULY 3, 1928. Class 4.

247,084. BLANK AND PARTIALLY-PRINTED CARDS AND FORMS FOR INDEXES, INDEXES CONSISTING OF BLANK OR PARTIALLY-PRINTED FORMS OR CARDS, INDEX GUIDE CARDS, AND SEPARATOR CARDS OF THE TYPE USED FOR PHONETIC INDEXES, AND FRAMES AND HOLDERS FOR INDEX CARDS. RAND KARDEX SERVICE CORPORATION, Tonawanda, N. Y., assignor to Remington Rand Business Service Corporation, New York, N. Y., a Corporation of Delaware.
Filed October 8, 1927. Serial No. 255,821. PUBLISHED JULY 3, 1928. Class 37.

247,085. NEUTRAL PASTE CLEANER FOR PAINTED, VARNISHED, AND ENAMELED SURFACES; MARBLE, TERRA COTTA, AND TILE CLEANER; METAL POLISH, AND METAL CLEANER. CLEAN SURFACE PRODUCTS COMPANY, Chicago, Ill.
Filed September 26, 1927. Serial No. 255,230. PUBLISHED DECEMBER 6, 1927. Class 4.

247,086. MEN'S AND BOYS' SUITS, TOPCOATS, AND OVERCOATS. J. W. SMITH & SONS, doing business as Smithson, New York, N. Y.
Filed April 17, 1928. Serial No. 265,021. PUBLISHED JUNE 19,1928. Class 39.

247,087. FOUNTAIN PENS. L. E. WATERMAN COMPANY, New York, N. Y.
Filed November 19, 1927. Serial No. 257,834. PUBLISHED JUNE 26, 1928. Class 37.

247,088. TRADING STAMPS. ROBERT E. GREGG, doing business as Cumback Currency Company, Fort Worth, Tex., assignor to Cumback Currency Company, Fort Worth, Tex., a Corporation of Delaware.
Filed November 21, 1927. Serial No. 257,869. PUBLISHED JUNE 19, 1928. Class 38.

247,089. CANDIES, CAKES, AND MAYONNAISE DRESSING. NEVITT AND GOODWIN, Washington, D. C.
Filed November 16, 1927. Serial No. 257,612. PUBLISHED JULY 3, 1928. Class 46.

247,090. A SEMIMONTHLY MAGAZINE. PAUL W. BROWN, St. Louis, Mo.
Filed August 18, 1927. Serial No. 253,677. PUBLISHED OCTOBER 25, 1927. Class 38.

247,091. CHEWING GUM AND CACHOUS. AMERICAN CHICLE COMPANY, Long Island City, N. Y.
Filed January 4, 1928. Serial No. 259,667. PUBLISHED JULY 3, 1928. Class 46.

247,092. CANNED VEGETABLES—NAMELY, ASPARAGUS, BEANS, BEAN SPROUTS, TOMATOES; CANNED FRUITS—NAMELY, CRAB APPLES, PEARS, AND PLUMS; NOODLES, CHINESE SAUCE, AND CHINESE BROWN SAUCE. VAN BUREN COUNTY CANNING COMPANY, Hartford, Mich.
Filed December 29, 1927. Serial No. 259,476. PUBLISHED JULY 3, 1928. Class 46.

247,093. ROAD BINDER. THE TRINIDAD LAKE PETROLEUM COMPANY, LIMITED, Trinidad, British West Indies, assignor to The Trinidad Lake Asphalt Operating Company, Limited, Trinidad, British West Indies, a Corporation of Trinidad, British West Indies.
Filed December 22, 1927. Serial No. 259,263. PUBLISHED JUNE 19, 1928. Class 12.

247,094. MARGARINE CONSISTING OF PURE COCOANUT FAT ONLY FOR COOKING PURPOSES. GEORG SCHICHT A. G., Aussig, Czechoslovakia.
Filed December 7, 1927. Serial No. 258,592. PUBLISHED JULY 3, 1928. Class 46.

247,095. CRIB BLANKETS AND CRIB SHEETS OF TEXTILE MATERIAL. PEPPERELL MANUFACTURING COMPANY, Boston, Mass.
Filed Nov. 30, 1927. Serial No. 258,235. PUBLISHED JULY 3, 1928. Class 42.

247,096. SELF-RISING FLOUR. THE CARR MILLING COMPANY, Hamilton, Ohio.
Filed November 29, 1927. Serial No. 258,162. PUBLISHED JULY 10, 1928. Class 46.

247,097. LADIES' AND MISSES' HATS. HARRY MILLER, Chicago, Ill.
Filed November 26, 1927. Serial No. 258,090. PUBLISHED JUNE 12, 1928. Class 39.

247,098. GRASS AND WEED CUTTERS. THE VILLAGE BLACKSMITH FOLKS, Watertown, Wis.
Filed November 25, 1927. Serial No. 258,052. PUBLISHED JULY 3, 1928. Class 23.

247,099. HOSIERY-MACHINE NEEDLES. LOUIS HIRSH, INC., Weehawken, N. J., and New York, N. Y.
Filed December 19, 1927. Serial No. 259,113. PUBLISHED JULY 3, 1928. Class 23.

247,100. CLEANING PREPARATION OF SOAP AND OTHER INGREDIENTS FOR USE ON SURFACES (EXCEPT AUTOMOBILE SURFACES) OF WOOD, PORCELAIN, STONE, AND LINOLEUM. THE MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa.
Filed December 16, 1927. Serial No. 259,011. PUBLISHED FEBRUARY 14, 1928. Class 4.

247,101. ELECTRIC SADIRONS, ELECTRIC PERCOLATORS, ELECTRIC TOASTERS, ELECTRIC WAFFLE MOULDS, ELECTRIC STOVES, ELECTRIC GRIDDLES, ELECTRIC PLUGS, ELECTRIC CORD SETS, ELECTRIC PERCOLATOR SETS, AND ELECTRIC WAFFLE-MOULD SETS. MALDA ELECTRIC MANUFACTURING COMPANY, Chicago, Ill.
Filed November 2, 1927. Serial No. 256,953. PUBLISHED JULY 3, 1928. Class 21.

247,102. ELECTRIC SADIRONS, ELECTRIC PERCOLATORS, ELECTRIC TOASTERS, ELECTRIC WAFFLE MOULDS, ELECTRIC STOVES, ELECTRIC GRIDDLES, ELECTRIC PLUGS, ELECTRIC CORD SETS, ELECTRIC PERCOLATOR SETS, ELECTRIC WAFFLE-MOULD SETS. MALDA ELECTRIC MANUFACTURING COMPANY, Chicago, Ill.
Filed November 2, 1927. Serial No. 256,954. PUBLISHED JULY 3, 1928. Class 21.

247,103. FLOUR-HANDLING MACHINERY, DOUGH-HANDLING MACHINERY, ETC. BAKER PERKINS COMPANY, INC., Saginaw, Mich.
Filed November 5, 1927. Serial No. 257,089. PUBLISHED JULY 10, 1928. Class 23.

247,104. CANNED VEGETABLES, CANNED DECIDUOUS FRUITS, CANNED BERRIES, OLIVES, RAISINS, PEANUT BUTTER, CANNED SOUPS, AND FISH, MACARONI, RICE, COFFEE, TEA, EVAPORATED MILK, PANCAKE FLOUR, CANDY, OLIVE OIL, MAYONNAISE DRESSING, CHILI SAUCE, HORSE-RADISH, MINCEMEAT, TABLE SYRUP, CHEESE, CANNED SAUERKRAUT, AND SAUERKRAUT JUICE. SQUIRE DINGEE COMPANY, Chicago, Ill.
Filed April 13, 1928. Serial No. 264,781. PUBLISHED JULY 3, 1928. Class 46.

247,105. ALUMINUM SILVER-CLEANING PLATES. ALUMINUM GOODS MANUFACTURING CO., Manitowoc, Wis.
Filed March 28, 1928. Serial No. 263,849. PUBLISHED JUNE 19, 1928. Class 4.

247,106. OPTICAL LENSES. TITMUS OPTICAL COMPANY, INC., Petersburg, Va.
Filed March 27, 1928. Serial No. 263,840. PUBLISHED JULY 10, 1928. Class 26.

247,107. RADIO CALL FINDER PUBLISHED FROM TIME TO TIME. VERNON T. BRAUNS, doing business as The Progress Press, Chicago, Ill.
Filed March 26, 1928. Serial No. 263,747. PUBLISHED JULY 3, 1928. Class 38.

247,108. METALLIC-COATED PAPER TO BE USED FOR WRAPPING AND DECORATIVE PURPOSES. THE TUTTLE PRESS COMPANY, Appleton, Wis.
Filed March 24, 1928. Serial No. 263,736. PUBLISHED JUNE 19, 1928. Class 37.

247,109. PNEUMATIC ROCK-HAMMER DRILLS, PNEUMATIC BRUSHING MACHINES, ETC. COMPAGNIE BELGE GOLIATH, Brussels, Belgium.
Filed March 23, 1928. Serial No. 263,643. PUBLISHED JULY 3, 1928. Class 23.

247,110. VEGETABLE RELISH COMPOSED OF TOMATOES, BROWN SUGAR, ONIONS, SWEET PEPPERS, VINEGAR, AND SALT. GRACE W. MARTIN, doing business at The Martin Company, Winter Garden, Fla.
Filed March 21, 1928. Serial No. 263,553. PUBLISHED JULY 10, 1928. Class 46.

247,111. MILLS FOR GRINDING OR PULVERIZING ALL KINDS OF HARD OR REFRACTORY MATERIALS. CONQUEST MILL ENGINEERING COMPANY, LIMITED, London, England.
Filed March 21, 1928. Serial No. 263,540. PUBLISHED JULY 3, 1928. Class 23.

247,112. MILLS FOR GRINDING OR PULVERIZING ALL KINDS OF HARD OR REFRACTORY MATERIALS. CONQUEST MILL ENGINEERING COMPANY, LIMITED, London, England.
Filed March 21, 1928. Serial No. 263,539. PUBLISHED JULY 3, 1928. Class 23.

247,113. WOOD DOORS. CADILLAC FLUSHLITE DOOR COMPANY, Cadillac, Mich.
Filed March 21, 1928. Serial No. 263,534. PUBLISHED JUNE 5, 1928. Class 12.

247,114. SOUND-DEADENING TILES OF SHEET METAL. C. F. BURGESS LABORATORIES, INC., Madison, Wis., and Chicago, Ill.
Filed March 21, 1928. Serial No. 263,533. PUBLISHED JUNE 12, 1928. Class 12.

247,115. CANDY, CANDIED POP CORN, BUTTERED POP CORN, SALTED PEANUTS, AND SALT-WATER TAFFY. PATSY'S CANDIES, INC., Colorado Springs, Colo.
Filed March 20, 1928. Serial No. 263,512. PUBLISHED JULY 3, 1928. Class 46.

247,116. FRESH CITRUS FRUITS — NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. CHULA VISTA CITRUS ASSOCIATION, also doing business as San Diego Fruit Company, Chula Vista, Calif.
Filed March 20, 1928. Serial No. 263,460. PUBLISHED JULY 10, 1928. Class 46.

247,117. PRUNE PASTE. CALIFORNIA PRUNE & APRICOT GROWERS ASSOCIATION, San Jose, Calif.
Filed March 20, 1928. Serial No. 263,457. PUBLISHED JULY 3, 1928. Class 46.

247,118. THERMO-SIPHON DISCHARGE FITTINGS FOR FLUID-HOLDING TANKS. THE SANDS MANUFACTURING COMPANY, Cleveland, Ohio.
Filed March 19, 1928. Serial No. 263,429. PUBLISHED JULY 3, 1928. Class 13.

247,119. UNTREATED WIPING-CLOTH MATERIAL IN THE PIECE OR BY THE BOLT. FRANK C. KIP, INC., Chicago, Ill.
Filed March 19, 1928. Serial No. 263,409. PUBLISHED JULY 3, 1928. Class 42.

247,120. CERTAIN NAMED PAINT PRODUCTS. OLD GOLD COMBINATION WHITE LEAD AND COLOR CORPORATION, New York, N. Y.
Filed March 17, 1928. Serial No. 263,336. PUBLISHED JULY 3, 1928. Class 16.

247,121. FOLDING DOORS AND PARTITIONS FOR THE ROOMS OF BUILDINGS. PAUL HORN, Fort Dodge, Iowa.
Filed March 17, 1928. Serial No. 263,320. PUBLISHED JUNE 12, 1928. Class 12.

247,122. TECHNICAL LINEN, PARTICULARLY TRACING CLOTH. W. J. PETERS & CIE., Cologne-Rodenkirchen, Germany.
Filed March 16, 1928. Serial No. 263,279. PUBLISHED JUNE 19, 1928. Class 37.

247,123. SODA WATER, ICE-CREAM SODA WATER, LEMON PHOSPHATE, PHOSPHATES IN OTHER FLAVORS, LEMONADE, AND THE SAME BEVERAGE IN OTHER FLAVORS. THE MIRROR, New York, N. Y.
Filed March 14, 1928. Serial No. 263,170. PUBLISHED JULY 10, 1928. Class 45.

247,124. INSTRUMENT FOR MASSAGING THE GUMS. PYRO-CHEX COMPANY, St. Louis, Mo.
Filed May 10, 1928. Serial No. 266,216. PUBLISHED JULY 3, 1928. Class 44.

247,125. NEWSPAPER SECTION. THE NEW YORK TIMES COMPANY, New York, N. Y.
Filed May 10, 1928. Serial No. 266,214. PUBLISHED JULY 3, 1928. Class 38.

247,126. MALT SYRUP. GEO. E. LINTHICUM, Baltimore, Md.
Filed May 10, 1928. Serial No. 266,207. PUBLISHED JULY 3, 1928. Class 46.

247,127. HAND RAKES AND HOES. ARTHUR F. KNOTT, Dinwiddie, Va.
Filed May 10, 1928. Serial No. 266,203. PUBLISHED JULY 3, 1928. Class 23.

247,128. COFFEE. HALE-HALSELL COMPANY, McAlester, Okla.
Filed May 10, 1928. Serial No. 266,200. PUBLISHED JULY 3, 1928. Class 46.

247,129. MONTHLY MAGAZINE. EDWARD THOMPSON COMPANY, Northport, N. Y.
Filed May 10, 1928. Serial No. 266,194. PUBLISHED JULY 3, 1928. Class 38.

247,130. MONTHLY MAGAZINE. JOHN PAUL DORLAND, INC., Philadelphia, Pa.
Filed May 10, 1928. Serial No. 266,193. PUBLISHED JULY 3, 1928. Class 38.

247,131. TEA. WILLIAM T. ABBOTT, doing business as William T. Abbott & Co., Boston, Mass.
Filed May 10, 1928. Serial No. 266,180. PUBLISHED JULY 3, 1928. Class 46.

247,132. BURLAP AND BURLAP COVERINGS FOR BALES OF BAGS OF SUCH MATERIAL. RICHARD C. HYLAND, doing business as Hyland Bag Company, San Francisco, Calif.
Filed May 9, 1928. Serial No. 266,171. PUBLISHED JULY 10, 1928. Class 42.

247,133. METAL ALLOY OF EXCEEDING HARDNESS. STODDY COMPANY, Whittier, Calif.
Filed May 9, 1928. Serial No. 266,153. PUBLISHED JULY 3, 1928. Class 14.

247,134. SHAVING SOAP. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed May 9, 1928. Serial No. 266,140. PUBLISHED JUNE 19, 1928. Class 4.

247,135. A CLEANING PREPARATION IN LIQUID FORM FOR HOUSEHOLD PURPOSES AND FOR OTHER CONDITIONS WHERE GREASE AND DIRT COLLECT. LANGDON CASKIN, doing business as The SaniBel Company, Devon, Pa.
Filed May 9, 1928. Serial No. 266,125. PUBLISHED JUNE 19, 1928. Class 4.

247,136. CLEANING LIQUID FOR CLEANING FABRICS, LEATHER, SHOES, TYPE, MACHINERY, AND METAL AND FOR REMOVING ADHESIVES AND GUM. BONIDE CHEMICAL CO., Utica, N. Y.
Filed May 9, 1928. Serial No. 266,121. PUBLISHED JUNE 19, 1928. Class 4.

247,137. VIGIL-LIGHT CUPS COMPOSED OF GLASS. WRIGHT MANUFACTURING COMPANY, INC., Philadelphia, Pa.
Filed May 8, 1928. Serial No. 266,113. PUBLISHED JULY 3, 1928. Class 33.

247,138. AUTOMOBILE TOP AND FABRIC DRESSING. STANDARD DRUG COMPANY, Los Angeles, Calif.
Filed May 8, 1928. Serial No. 266,108. PUBLISHED JUNE 26, 1928. Class 4.

247,139. FERTILIZING MATERIAL IN THE FORM OF BRIQUETTES WHICH WHEN SUBJECTED TO HEAT RELEASE GASES FOR THE FERTILIZATION OF PLANTS. ERICH REINAU, Berlin-Steglitz, Germany.
Filed May 8, 1928. Serial No. 266,099. PUBLISHED JULY 3, 1928. Class 10.

247,140. MONTHLY PUBLICATION. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed May 8, 1928. Serial No. 266,092. PUBLISHED JUNE 19, 1928. Class 38.

247,141. BLANKETS AND BED AND CRIB COVERINGS MADE OF COTTON OR WOOL OR A MIXTURE OF COTTON AND WOOL. PEPPERELL MANUFACTURING COMPANY, Boston, Mass.
Filed May 8, 1928. Serial No. 266,091. PUBLISHED JULY 3, 1928. Class 42.

247,142. SHIPS'-SHAFT-REVOLUTION INDICATORS. GEORGE WALKER, Boston, Mass.
Filed Feb. 25, 1928. Serial No. 262,274. PUBLISHED JULY 3, 1928. Class 26.

247,143. CANDY. THE GEORGE CLOSE CO., Cambridge, Mass.
Filed May 24, 1928. Serial No. 266,924. PUBLISHED JULY 10, 1928. Class 46.

247,144. MOTION-PICTURE FILMS, MOTION-PICTURE FILMS FOR USE IN CONNECTION WITH SYNCHRONIZED APPARATUS FOR SIMULTANEOUSLY REPRODUCING COORDINATED LIGHT AND SOUND EFFECT. FIRST NATIONAL PICTURES, INC., New York, N. Y.
Filed May 24, 1928. Serial No. 266,921. PUBLISHED JULY 10, 1928. Class 26.

247,145. CIGARS. CHARLES RICHTER, doing business as J. M. Anthony & Co., Providence, R. I.
Filed May 23, 1928. Serial No. 266,884. PUBLISHED JULY 10, 1928. Class 17.

247,146. SILK FABRICS IN THE PIECE. ONONDAGA SILK COMPANY, INC., Syracuse and New York, N. Y.
Filed May 23, 1928. Serial No. 266,877. PUBLISHED JULY 3, 1928. Class 42.

247,147. WHITE-FIBRE TWINE. HANOVER CORDAGE COMPANY, Hanover, Pa.
Filed May 22, 1928. Serial No. 266,807. PUBLISHED JULY 3, 1928. Class 7.

247,148. ITALIAN HANDMADE AND HANDLAID WRITING AND PRINTING PAPER. JAPAN PAPER COMPANY, New York, N. Y.
Filed May 23, 1928. Serial No. 266,860. PUBLISHED JULY 3, 1928. Class 37.

247,149. SIEVES OF METAL AND WIRE CLOTH FOR TESTING AND LABORATORY USE, GRAPHITE CRUCIBLES (MELTING TYPE), ASSAY CLAY GOODS, PARTICULARLY ANNEALING CUPS, ASSAY CRUCIBLES AND COVERS THEREFOR, MUFFLES, ROASTING DISHES, AND SCORIFIERS, FLOTATION MACHINES FOR LABORATORY USES, AND ORE-SAMPLING MACHINES. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed May 23, 1928. Serial No. 266,854. PUBLISHED JULY 3, 1928. Class 26.

247,150. VEGETABLE SHORTENING. TEXAS VEGETABLE OIL CO., San Antonio, Tex.
Filed May 22, 1928. Serial No. 266,840. PUBLISHED JULY 3, 1928. Class 46.

247,151. FRESH VEGETABLES. FRANK S. OKUTANI, Los Angeles, Calif.
Filed May 22, 1928. Serial No. 266,825. PUBLISHED JULY 3, 1928. Class 46.

247,152. BREAD. J. A. BROWN, Collinsville, Okla.
Filed May 22, 1928. Serial No. 266,788. PUBLISHED JULY 3, 1928. Class 46.

247,153. SCISSORS, SHEARS, AND RAZORS. J. A. HENCKELS, INC., New York, N. Y.
Filed May 21, 1928. Serial No. 266,781. PUBLISHED JULY 10, 1928. Class 28.

247,154. COFFEE. ALBERT EHLERS, INC., New York, N. Y.
Filed May 21, 1928. Serial No. 266,722. PUBLISHED JULY 3, 1928. Class 46.

247,155. COFFEE. ALBERT EHLERS, INC., New York, N. Y.
Filed May 21, 1928. Serial No. 266,721. PUBLISHED JULY 3, 1928. Class 46.

247,156. MOTION PICTURES REPRODUCED IN COPIES FOR SALE. WALTER E. DISNEY, Hollywood, Calif.
Filed May 21, 1928. Serial No. 266,717. PUBLISHED JULY 3, 1928. Class 26.

247,157. WAXED WRAPPING PAPER AND WAXED PAPER FOR LINING CARTONS AND BOXES. THE WARREN MANUFACTURING COMPANY, Riegelsville, N. J., and New York, N. Y.
Filed May 19, 1928. Serial No. 266,696. PUBLISHED JULY 3, 1928. Class 37.

247,158. EGGS, BUTTER, CHEESES, MILK, AND CREAM. THOMPSON'S DAIRY, Washington, D. C.
Filed May 19, 1928. Serial No. 266,692. PUBLISHED JULY 3, 1928. Class 46.

247,159. CANDY. ELGIN CHOCOLATE PRODUCTS CO. INC., Elgin, Ill.
Filed May 19, 1928. Serial No. 266,651. PUBLISHED JULY 10, 1928. Class 46.

247,160. WHEAT FLOUR. COMMANDER MILLING COMPANY, Minneapolis, Minn.
Filed May 19, 1928. Serial No. 266,648. PUBLISHED JULY 3, 1928. Class 46.

247,161. DISPLAY CABINET FOR GREETING CARDS. WILLIAM A. SWANSON, Dallas, Tex.
Filed May 18, 1928. Serial No. 266,630. PUBLISHED JULY 3, 1928. Class 32.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

247,162. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN HEILAND CO., Chicago, Ill. Filed Aug. 10, 1928. Serial No. 270,841.

HEILAND'S

For Cold Cream, Face Cream, Skin Lotion, Antiseptic Powder, Cough Syrup, and Roach Powder.
Claims use since Apr. 4, 1907.

247,163. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DARWIN & MILNER, INC., Cleveland, Ohio. Filed July 30, 1928. Serial No. 270,321.

DARWIN

For Tool Steel, Steel Bars, Steel Castings, and Steel Forgings.
Claims use since 1910.

247,164. (CLASS 17. TOBACCO PRODUCTS.) GRUMBINE-O'DONNELL CORP., Harrisonburg, Va. Filed June 27, 1928. Serial No. 268,732.

EL NIQUEL

For Cigars.
Claims use since May 15, 1927.

247,165. (CLASS 39. CLOTHING.) WIDE AWAKE SHIRT COMPANY, INC., Reading, Pa. Filed June 5, 1928. Serial No. 267,523.

Manly

For Dress, Negligee, and Work Shirts.
Claims use since 1915.

247,166. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. & J. LABORATORIES, Parkersburg, W. Va. Filed May 25, 1928. Serial No. 266,989.

Orange Root

For a General Tonic.
Claims use since June, 1927.

247,167. (CLASS 38. PRINTS AND PUBLICATIONS.) THE HOLLYWOOD ACADEMY TEACHING MOTION PICTURE PLAY WRITING, New York, N. Y. Filed Feb. 24, 1928. Serial No. 262,168.

THE HOLLYWOOD ACADEMY
TEACHING
MOTION PICTURE PLAY WRITING

For Correspondence Course Teaching Motion-Picture-Play Writing.
Claims use since July 27, 1927.

247,168. (CLASS 43. THREAD AND YARN.) JACOB SELIGSOHN, doing business as Advance Thread Co., New York, N. Y. Filed Dec. 7, 1927. Serial No. 258,594.

MAXWELL

"Good to the last yard"

For Thread.
Claims use since Aug. 1, 1927.

247,169. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLEARWATER LUMBER COMPANY, Clearwater, Fla. Filed Nov. 12, 1927. Serial No. 257,470.

INWALL

For Furniture Attached to Buildings—Namely, as Breakfast Nooks, Wall Seats, Telephone Seats, Bathroom Seats, Kitchen Tables, Boat Tables.
Claims use since July 19, 1926.

247,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REDLANDS SELECT GROVES, INC., Redlands, Calif. Filed Nov. 2, 1927. Serial No. 256,969.

SANTA FE

For Fresh Citrus Fruits.
Claims use since June 29, 1927.

247,171. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COLUMBIA MILLS, Los Angeles, Calif. Filed Sept. 21, 1927. Serial No. 254,995.

PUBLIC SERVICE

For Window-Shade Cloth.
Claims use since Jan. 1, 1927.

247,172. (CLASS 2. RECEPTACLES.) ALLEN C. SCOTT, doing business as Scott Manufacturing Company, Omaha, Nebr. Filed June 27, 1927. Serial No. 251,209.

TWIN

For Shipping Containers Made of Laminations of Canvas and Felt Insulation, Used for Shipping Ice-Cream Cans Containing Ice Cream.
Claims use since June 21, 1927.

247,173. (CLASS 39. CLOTHING.) I. MILLER AND SONS, INCORPORATED, Long Island City, N. Y. Filed Apr. 13, 1927. Serial No. 247,381.

A Grenada MODEL

For Women's and Girls' Shoes and Slippers Made of Leathers, Fabrics, Cloth, and Combinations of These Materials.
Claims use since Mar. 1, 1927.

247,174. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HIPP. DIDISHEIM CO., INC., New York, N. Y. Filed May 15, 1926. Serial No. 231,671.

SHOCKPRUF

For Watches, Watch Movements, and Parts of the Same.
Claims use since about April, 1926.

LABELS

REGISTERED SEPTEMBER 18, 1928.

34,581.—*Title:* BEECH-NUT BRAND CHEWING GUM, SPEARMINT. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published August 10, 1928.

34,582.—*Title:* BEECH-NUT BRAND CHEWING GUM, SPEARMINT. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published August 10, 1928.

34,583.—*Title:* BEECH-NUT "MINTS" CLOVE. For Candy. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published August 11, 1928.

34,584.—*Title:* ORIGINAL FREDERICK. For Malt Syrup. W. C. LEHNERT, Baltimore, Md. Published January 2, 1926.

34,585.—*Title:* J. B. IVEY & CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 10, 1928.

34,586.—*Title:* HELFAND SHOE CO., INC. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 14, 1928.

34,587.—*Title:* MILLER & RHOADS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 5, 1928.

34,588.—*Title:* BERKSHIRE FOOTWEAR CORP. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 26, 1928.

34,589.—*Title:* SILL'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 4, 1928.

34,590.—*Title:* PRINCESS BOOT SHOP. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 8, 1928.

34,591.—*Title:* STYLO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 26, 1928.

34,592.—*Title:* PARISIAN MODES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 21, 1928.

34,593.—*Title:* SMART SHOP. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 19, 1928.

34,594.—*Title:* COX BROTHERS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 16, 1928.

34,595.—*Title:* MIRROR SHOE STORES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 8, 1928.

34,596.—*Title:* STYLER. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 23, 1928.

34,597.—*Title:* THE PUSS IN BOOTS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 2, 1928.

34,598.—*Title:* TUFSOLE SHOE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 20, 1928.

34,599.—*Title:* MUHLFELDERS INC. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 12, 1928.

34,600.—*Title:* CHURCHWELLS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 11, 1928.

34,601.—*Title:* BEN LEWIS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 11, 1928.

34,602.—*Title:* STIX, BAER & FULLER. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 11, 1928.

34,603.—*Title:* SHERIDAN SQUARE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 13, 1928.

34,604.—*Title:* TO THE WISE SMOKER. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 14, 1928.

34,605.—*Title:* IT MAY SEEM STRANGE BUT ADULTS ARE BEGINNING TO TAKE CASTOR OIL. For Castor Oil. E. R. SQUIBB & SONS, New York, N. Y. Published August 1, 1928.

34,606.—*Title:* NAP VALLEY PALE DRY GINGER ALE. For Ginger Ale. ST. HELENA BOTTLING & COLD STORAGE COMPANY, St. Helena, Calif. Published August 1, 1928.

PRINTS

REGISTERED SEPTEMBER 18, 1928.

11,212.—*Title:* LITTLE ADVENTURERS! NEW, BETTER WAYS TO GUIDE THEM. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published August 10, 1928.

11,213.—*Title:* P. A.? YOU BET IT IS. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published July 26, 1928.

11,214.—*Title:* YOU'RE WHAT I CALL A FRIEND. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 30, 1928.

11,215.—*Title:* YOU CAN'T BEAT IT, MEN. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 16, 1928.

11,216.—*Title:* I'LL MAKE A PREDICTION. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 2, 1928.

11,217.—*Title:* IT'S TIME YOU GOT SQUARED AWAY. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 19, 1928.

11,218.—*Title:* ALL THE DAY THROUGH. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 5, 1928.

11,219.—*Title:* THEY TOLD ME TO TRY P. A. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 21, 1928.

11,220.—*Title:* TO ADMINISTER CASTOR OIL EASILY—USE SQUIBB'S—IT IS TASTELESS AND ODORLESS. For Castor Oil. E. R. SQUIBB & SONS, New York, N. Y. Published June 1, 1928.

11,221.—*Title:* SERVING A SCIENCE THAT SAFEGUARDS LIFE. For Bicarbonate of Soda, Epsom Salt, Tasteless Castor Oil, Milk of Magnesia. E. R. SQUIBB & SONS, New York, N. Y. Published August 1, 1928.

11,222.—*Title:* CLEANING YOUR TEETH SHOULD BE MORE THAN A HABIT. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published June 1, 1928.

11,223.—*Title:* EVERY YEAR 2,000,000 SICK-BEDS ARE OCCUPIED BECAUSE OF PREVENTABLE SICKNESS. For Bicarbonate of Soda, psom Salt, Milk of Magnesia, Castor Oil, Etc. E. R. SQUIBB & SONS, New York, N. Y. Published June 2, 1928.

11,224.—*Title:* TO ALL MEN WITH "HAIR-TRIGGER" SKINS A WORD ABOUT HYDROLYSIS. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb, New York, N. Y. Published June 3, 1928.

11,225.—*Title:* THIS GREAT NEW SHAVING CREAM SAVES YOUR SKIN. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb, New York, N. Y. Published June 10, 1928.

11,226.—*Title:* FIRST AID TO SMOKERS. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published June 23, 1928.

11,227.—*Title:* BREAKING IN. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published June 30, 1928.

11,228.—*Title:* ON THESE HOT DAYS PROTECT YOUR HEALTH. For Milk of Magnesia. E. R. SQUIBB & SONS, New York, N. Y. Published July 1, 1928.

11,229.—*Title:* NO NEED TO PUT UP WITH HYDROLYSIS. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb. Published May 20, 1928.

11,230.—*Title:* SIMPLE FACTS ABOUT CARING FOR YOUR TEETH AND GUMS. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published May 20, 1928.

11,231.—*Title:* YOU CAN CONTROL HYDROLYSIS—THAT ENEMY TO PLEASANT SHAVING. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published May 13, 1928.

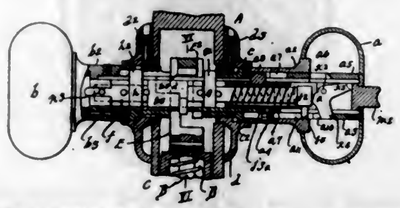
11,232.—*Title:* WHAT HAPPENS WHEN YOU CLEAN YOUR TEETH. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published May 26, 1928.

11,233.—*Title:* 5 YEARS OLD AND 52 TEETH. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 28, 1928.

REISSUES

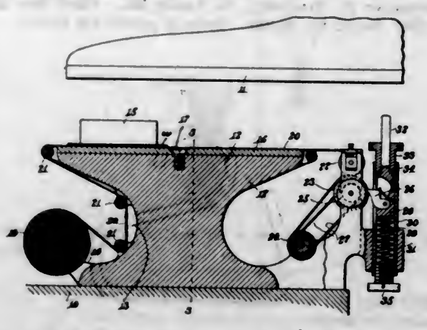
SEPTEMBER 18, 1928.

17,084. KNOB LOCK. LOUIS HUFFMAN, Toronto, Ontario, Canada, assignor to Schlage Lock Company, San Francisco, Calif., a Corporation of California. Filed Apr. 1, 1926. Serial No. 99,172. Original No. 1,393,021, dated Oct. 11, 1921, Serial No. 280,414, filed Mar. 8, 1919. 26 Claims. (Cl. 70—91.)



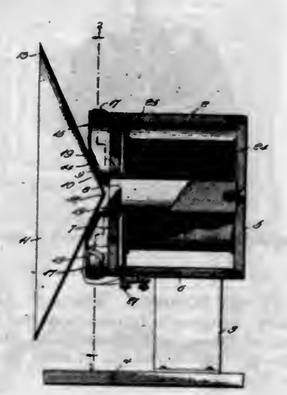
1. In an apparatus of the kind described, a knob spindle, a reciprocating part in said spindle adapted to lock the spindle at the one position of said part, a spring tending to force said reciprocating part to its unlocked position, a pawl adapted to engage said knob to hold said reciprocating part in its locked position, the engagement of said pawl and said knob being such that a turning of the knob shall release said engagement.

17,085. DIE PRESS. ALFRED J. THOMAS, Braintree, Mass., assignor, by mesne assignments, to Benjamin W. Freeman, Cincinnati, Ohio. Filed Oct. 21, 1926. Serial No. 143,308. Original No. 1,545,863, dated July 14, 1925, Serial No. 748,077, filed Nov. 6, 1924. 12 Claims. (Cl. 164—78.)



1. In a die press, the combination with a bed, of a weighted metal anvil freely movable on the bed, a strip of flexible material superimposed thereon, and means supported by said anvil for moving said strip over the surface thereof.

17,086. ELECTROMAGNETIC SOUND REPRODUCER. FREDERICK A. KOLSTER and SIGURD A. SOLLIE, Palo Alto, Calif., assignors to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Nov. 5, 1927. Serial No. 231,373. Original No. 1,637,119, dated July 26, 1927, Serial No. 161,824, filed Jan. 18, 1927. 7 Claims. (Cl. 179—115.)



1. An electromagnetic sound reproducer comprising an electromagnetic driver, a conical shaped sound reproducing diaphragm, a frame member surrounding the apex portion of said conical shaped sound reproducing diaphragm, and a flexible sheet of material secured at its edge to said frame member and extending along a portion of the convex side of said conical shaped sound reproducing diaphragm in a position intermediate the apex and peripheral edge thereof for suspending said conical shaped sound reproducing diaphragm for actuation by said electromagnetic driver.

DESIGNS

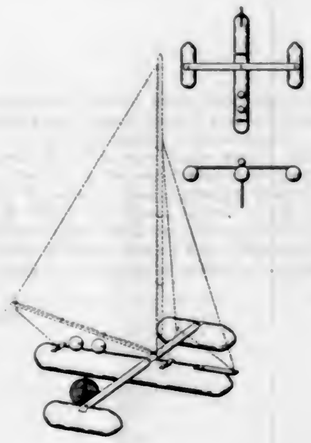
SEPTEMBER 18, 1928.

76,338. WALL POCKET. CHARLES APELT, Comfort, Tex. Filed Mar. 29, 1928. Serial No. 26,059. Term of patent 7 years.



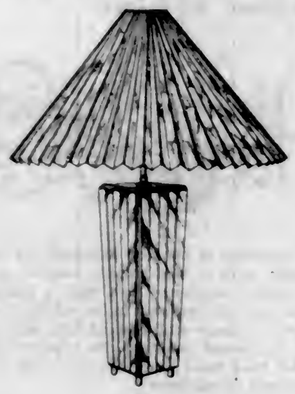
The ornamental design for a wall pocket, as shown.

76,339. TOY SEA SCOOTER. EDWIN V. BABBITT, Fairhaven, Mass., assignor to International Toy Corporation, New Bedford, Mass., a Corporation of Massachusetts. Filed June 8, 1926. Serial No. 17,989. Term of patent 14 years.



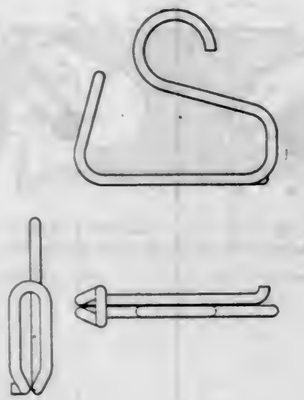
The ornamental design for a toy sea scooter substantially as shown.

76,340. LAMP. MARGUERITE A. BUCHWALTER, New York, N. Y. Filed June 22, 1928. Serial No. 27,229. Term of patent 3½ years.



The ornamental design for a lamp substantially as shown.

76,341. HANGER FOR TROUSERS AND CRAVATS. STERLING H. CAMPBELL, St. Louis, Mo. Filed May 25, 1928. Serial No. 26,861. Term of patent 3½ years.



The ornamental design for a hanger for trousers and cravats as shown.

76,342. TABLE SCARF. JOSEPH DERK, Doylestown, Pa., assignor to The Derk Manufacturing Company, Doylestown, Pa., a Corporation of Pennsylvania. Filed June 28, 1928. Serial No. 27,300. Term of patent 3½ years.



The ornamental design for a table scarf, as shown and described.

76,343. STOCKING. BARNETT D. GORDON, Boston, Mass. Filed Apr. 16, 1928. Serial No. 26,349. Term of patent 14 years.



The ornamental design for a stocking, as shown and described.

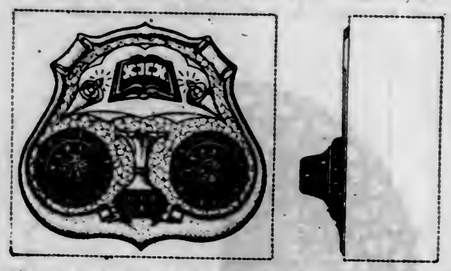
76,344. CLASP JAW FOR FUR SCARFS OR THE LIKE. WILLIAM GREENBERG, Bronx, N. Y., assignor of one-half to Emil Kaufman, Brooklyn, N. Y. Filed Apr. 19, 1928. Serial No. 26,386. Term of patent 14 years.





The ornamental design for a clasp jaw for fur scarfs or the like, as shown.

76,345. RADIO DIAL ESCUTCHEON PLATE. CHARLES P. HANSEN, Evan, Minn. Filed Mar. 5, 1928. Serial No. 25,674. Term of patent 14 years.



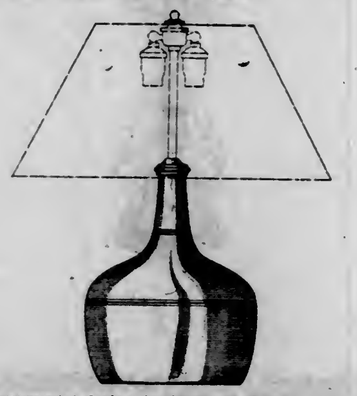
The ornamental design for a radiodial escutcheon plate, as shown.

76,346. RADIOCABINET OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 30, 1928. Serial No. 26,510. Term of patent 3½ years.



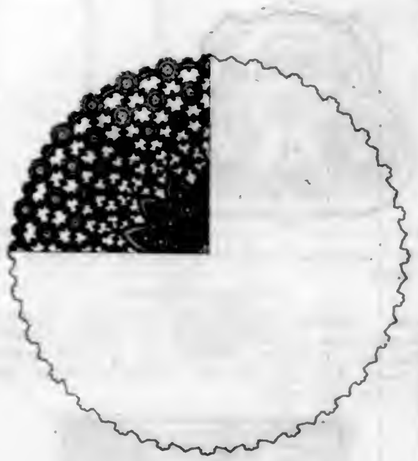
The ornamental design for a radio cabinet or similar article as shown.

76,347. LAMP. ALEXANDER R. KANNÉ, Brooklyn, N. Y., assignor to Kanné & Bessant, Inc., New York, N. Y., a Corporation of New York. Filed June 30, 1928. Serial No. 27,344. Term of patent 7 years.



The ornamental design for lamp, as shown.

76,348. DOILY. EDWARD KARFIOL, Brooklyn, N. Y. Filed Feb. 25, 1928. Serial No. 25,582. Term of patent 14 years.



The ornamental design for doily as shown and described.

76,349. ASH RECEPTACLE OR SIMILAR ARTICLE. ERNEST C. LEWIS, Meriden, Conn., assignor to The Tubular Products Company, Southington, Conn., a Corporation of Ohio. Filed June 14, 1928. Serial No. 27,120. Term of patent 14 years.



The ornamental design for an ash receptacle or similar article substantially as shown.

76,350. BOTTLE. JOHN H. LOVE, Pawhuska, and KIT C. LOVE, Muskogee, Okla. Filed June 16, 1928. Serial No. 27,171. Term of patent 7 years.



The ornamental design for a bottle, as shown.

76,351. CUPBOARD LATCH. FRED W. MCCORMICK, Grand Rapids, Mich. Filed Nov. 22, 1927. Serial No. 24,243. Term of patent 14 years.



The ornamental design for a cupboard latch, as shown.

76,352. VEHICLE BUMPER. WILLIAM R. MCGOWEN, McKees Rocks, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed May 26, 1928. Serial No. 26,865. Term of patent 14 years.



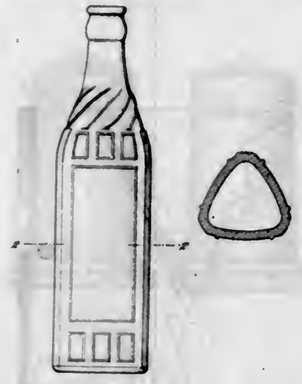
The ornamental design for a vehicle bumper, as shown.

76,353. VEHICLE BUMPER. WILLIAM R. MCGOWEN, McKees Rocks, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed May 14, 1928. Serial No. 26,666. Term of patent 14 years.



The ornamental design for a vehicle bumper, as shown.

76,354. BOTTLE OR SIMILAR ARTICLE OF MANUFACTURE. ROBERT A. REID, David City, Nebr. Filed July 10, 1928. Serial No. 27,442. Term of patent 7 years.



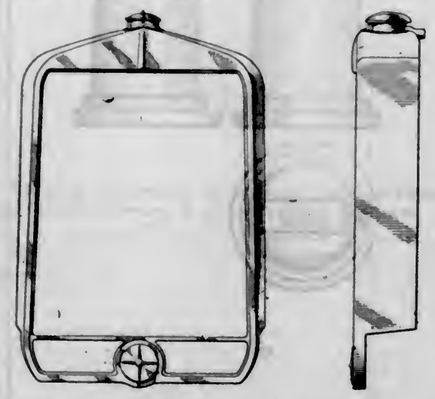
The ornamental design for a bottle or similar article of manufacture, as shown.

76,355. SHOE. THOMAS ROBERTS, Haverhill, Mass. Filed June 25, 1928. Serial No. 27,283. Term of patent 3½ years.



The ornamental design for a shoe as shown.

76,356. RADIATOR SHELL. ERNEST W. SEAHOLM and HARLEY J. EARL, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 27, 1927. Serial No. 23,229. Term of patent 14 years.



The ornamental design for a radiator shell as shown.

76,357. PEN STAND. BERNARD M. SHOEMAKER, Jamaica, N. Y., assignor to William Demuth & Company, New York, N. Y., a Corporation of New York. Filed Jan. 18, 1928. Serial No. 24,908. Term of patent 14 years.



The ornamental design for a pen stand as shown.

76,358. HANDLE FOR A SMOKING TABLE. WILLIAM J. SIMON, Brooklyn, N. Y., assignor to L. D. Bloch & Company, New York, N. Y., a Corporation of New York. Filed June 7, 1928. Serial No. 27,030. Term of patent 3½ years.



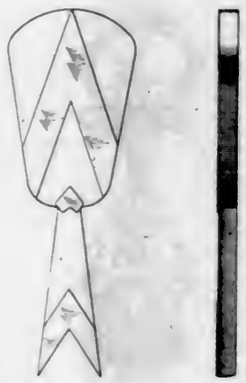
The ornamental design for a handle for a smoking table, substantially as shown.

76,359. DOLL. DOROTHY STENNARD, Palo Alto, Calif. Filed Dec. 12, 1927. Serial No. 24,444. Term of patent 3½ years.



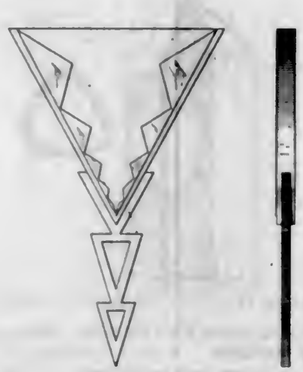
The ornamental design for a doll as shown.

76,360. MIRROR BACK OR SIMILAR ARTICLE. ELSA TENNHARDT, New York, N. Y., assignor to E. & J. Bass, Inc., a Corporation of New York. Filed May 23, 1928. Serial No. 26,831. Term of patent 3½ years.



The ornamental design for a mirror back, or similar article, substantially as shown and described.

76,361. MIRROR BACK OR SIMILAR ARTICLE. ELSA TENNHARDT, New York, N. Y., assignor to E. & J. Bass, Inc., a Corporation of New York. Filed May 23, 1928. Serial No. 26,832. Term of patent 3½ years.



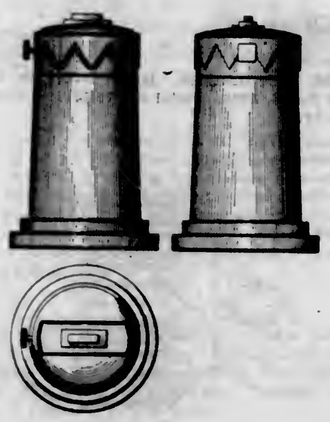
The ornamental design for a mirror back or similar article, substantially as shown and described.

76,362. CIGAR LIGHTER. ELSA TENNHARDT, New York, N. Y., assignor to Alfred Vester Sons Inc., Providence, R. I. Filed July 3, 1928. Serial No. 27,373. Term of patent 7 years.



The ornamental design for a cigar lighter as shown.

76,363. CIGAR LIGHTER. ELSA TENNHARDT, New York, N. Y., assignor to Alfred Vester Sons Inc., Providence, R. I. Filed July 3, 1928. Serial No. 27,374. Term of patent 7 years.



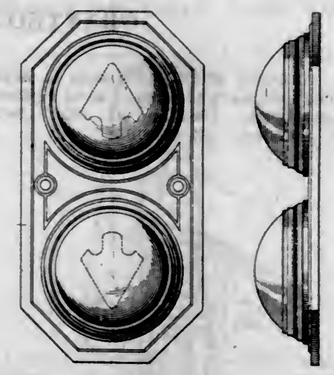
The ornamental design for a cigar-lighter as shown.

76,364. BOOSTER PLATE FOR AUTOMOBILE RADIATOR ORNAMENT OR SIMILAR ARTICLES. GRIFFIN P. TURNER and HULAH U. HUFF, Chattanooga, Tenn. Filed June 2, 1928. Serial No. 26,984. Term of patent 7 years.



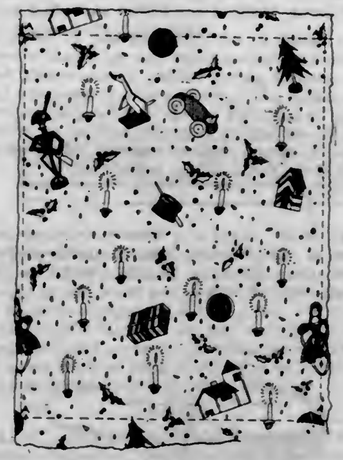
The ornamental design for a booster plate for automobile radiator ornament or similar articles, as shown.

76,365. ELEVATOR-SIGNAL PANEL. PAUL SCHUYLER VAN BLOEM, Great Neck, N. Y., assignor to Viking Products Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1927. Serial No. 24,644. Term of patent 7 years.



The ornamental design for an elevator signal panel, as shown.

76,366. BOX-WRAPPING PAPER. RUTH WILMOT, New York, N. Y., assignor to R. H. Macy & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 8, 1927. Serial No. 23,018. Term of patent 3½ years.

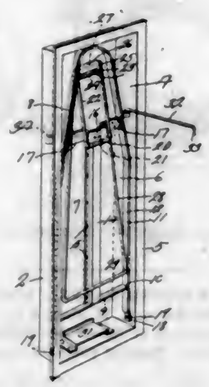


The ornamental design for a box wrapping paper, as shown and described.

PATENTS

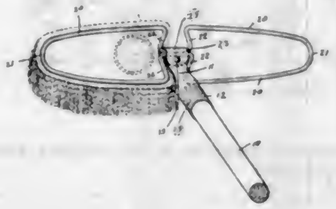
GRANTED SEPTEMBER 18, 1928.

1,684,378. IRONING BOARD. CHARLES L. ACKERMAN, Lima, Ohio, assignor to Lima Sheet Metal Products Company, Lima, Ohio. Filed Apr. 11, 1927. Serial No. 182,809. 2 Claims. (Cl. 68—10.)



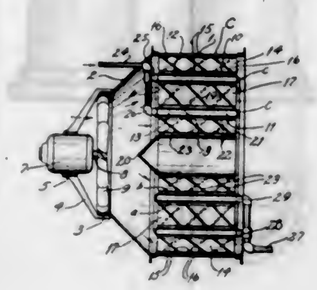
1. In a device of the kind described, a vertically disposed cabinet, an ironing board, one end of said board being hingedly mounted on the cabinet, a transversely disposed brace carried by said ironing board, a transversely disposed roll carried by said brace, a rectangular shaped link hingedly mounted at one end in said roll, and an approximately rectangularly shaped support hingedly connected to the other end of the rectangularly shaped link.

1,684,379. MOP. JESSE I. ANDERSON, Indianapolis, Ind., assignor to J. I. Holcomb Mfg. Co., Indianapolis, Ind., a Corporation. Filed Jan. 18, 1927. Serial No. 161,795. 3 Claims. (Cl. 15—229.)



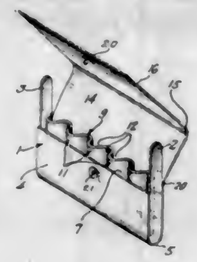
1. A mop frame including a wire arranged in two portions semi-elliptical in outline with the side portions as continuations of each other, the free ends of the sides extending inwardly therefrom towards each other, and lateral extensions thereof terminating adjacent each other and constituting a single pivot substantially in the plane of the elliptical frame for pivotally supporting the same.

1,684,380. AIR HEATER. HENRY BAETZ, St. Louis, Mo. Filed Jan. 6, 1926. Serial No. 79,541. 6 Claims. (Cl. 257—137.)



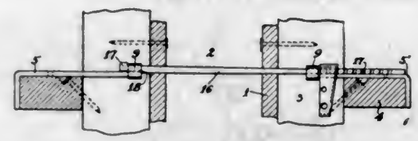
2. An air heater comprising a casing, a plurality of annular heating elements concentrically arranged within the casing, a plurality of radially disposed partitions between said heating elements forming a succession of air passages, said partitions being spaced from the heating elements to provide ducts leading from one passage to that next adjacent, means for moving air through said passages, and deflectors arranged in said passages to direct the air against the heating elements.

1,684,381. CIGARETTE CASE. JOHN F. BAHR, New York, N. Y. Filed Apr. 10, 1925. Serial No. 22,075. 2 Claims. (Cl. 206—41.)



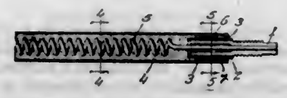
2. A cigarette holder consisting of a rigid box having relatively low front and rear walls and side walls extending above the front and rear walls which are of substantially the same width and height as the cigarettes which are adapted to be disposed in the box and from which their one ends lie exposed, a flexible cover connected to one of the low walls and having back, top and front portions so that when closed the cover will be supported and spaced by and will conform to the rigid sides of the box in order to protect the exposed ends of the cigarettes against mutilation.

1,684,382. WALL-FORM TIE STRUCTURE. WALTER E. BAUMBERGER, San Francisco, Calif. Filed Sept. 18, 1926. Serial No. 136,292. 6 Claims. (Cl. 25—131.)



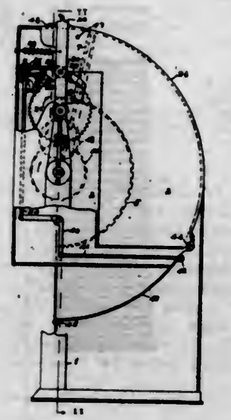
1. A knock-down holding device for wall forming moulds comprising a pair of anchor members, a connecting tie member detachably uniting the anchor members in adjustable relation, said connecting tie member being tapered toward one end provided with a lateral projection at one end for cooperation with one of the anchor members, and slotted at its opposite end for cooperation with the other anchored member.

1,684,383. ELECTRIC TERMINAL. JOSEF AMON, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 9, 1921, Serial No. 468,151. Renewed Mar. 23, 1925. 7 Claims. (Cl. 201—64.)



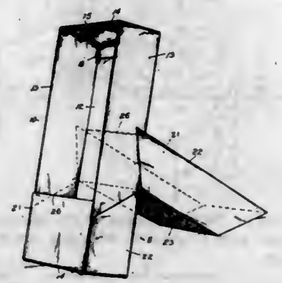
1. A terminal for electric heaters and the like, having tubular jackets, comprising a hollow conducting plug adapted to receive a connector, insulation surrounding the plug, and a compressible bushing arranged to rigidly fasten the plug to the jacket, the rigid fastening being effected by contraction of the jacket.

1,684,384. MAIL BOX. WILLIAM R. BANKSON, Pittsburgh, Pa. Filed Aug. 23, 1927. Serial No. 214,895. 7 Claims. (Cl. 232—17.)



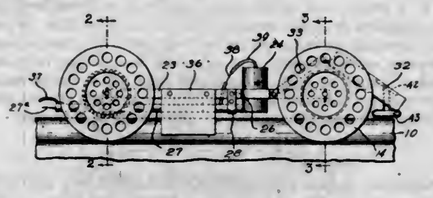
1. In a mail box of the character described, a mail receptacle provided with a mail inlet opening, a shiftable closure member for said mail inlet opening and normally closing the latter, a carrier plate mounted in said receptacle, and means actuated by the movement of said closure member for shifting said carrier plate to a predetermined position in said receptacle.

1,684,385. CARTON. HYMAN BATKIN, Brooklyn, N. Y. Filed Oct. 7, 1926. Serial No. 139,988. 3 Claims. (Cl. 206—44.)



3. A carton of the character described, comprising a container having side and end walls, and a cover therefor comprising a tubular member divided into two portions hinged together, the side walls of the hinged portion of the cover being of trapezoid shape, the base angles thereof at the hinged end projecting beyond the abutting ends of the top wall of the cover, whereby the hinged portion when folded on its hinge brings the said projecting base angles of the sides into a position overlying the sides of the container and the free end of the cover parallel with the supporting surface.

1,684,386. RAILWAY SIGNALING. ROBERT S. BLAIR, Stamford, Conn. Filed Apr. 5, 1924. Serial No. 704,370. 17 Claims. (Cl. 246—166.)

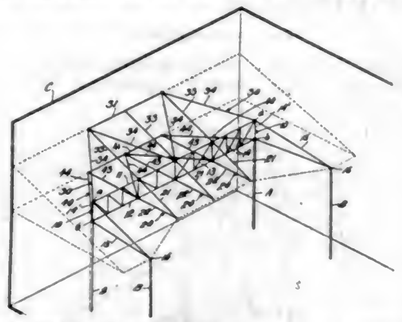


8. In a railway signal, in combination, a flanged wheel adapted to travel along a single rail, supporting means mounted on said wheel and adapted to follow the same with said wheel in engagement with the rail, a rearwardly discharging rocket mounted on said supporting means, and a signal mounted on said supporting means, the flanges of said wheel being of open construction to reduce the wind resistance thereon.

1,684,387. BUILDING CONSTRUCTION. ARTHUR L. BOBBS, Chappaqua, N. Y., assignor to Kenneth N. Woodward, trustee, Chappaqua, New Castle, N. Y. Filed Mar. 25, 1927. Serial No. 178,173. 6 Claims. (Cl. 20—1.12.)

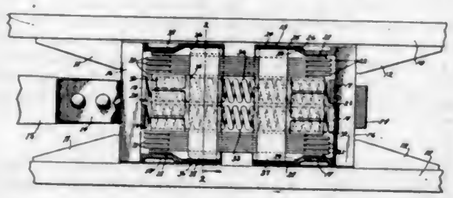
1. In building construction, the combination of a girder positioned with one of its cords directly above the other, supports for the ends of the girder, tapering balance trusses extending forward from the ends of the girder and having the rear ends of their upper and lower cords secured to the ends of the upper and lower cords of the girder, means for supporting the front ends of said balance trusses, a forwardly overhanging load carried by the intermediate portion of the girder, and means for applying the overturning moment of such load at the junctures of the girder and balance trusses, such means comprising two longitudinal trusses located behind the girder, one of which extends

between the rear ends of the upper cords of the balance trusses and has its front cord coincident with the upper cord of the girder, and the other of which extends between



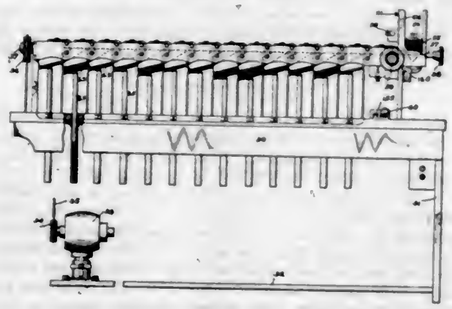
the rear ends of the lower cords of the balance trusses and has its front cord coincident with the lower cord of the main girder.

1,684,388. DRAFT GEAR. WALTER H. COTTON, Chicago, Ill., assignor to Union Draft Gear Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 23, 1925. Serial No. 17,612. 11 Claims. (Cl. 213—36.)



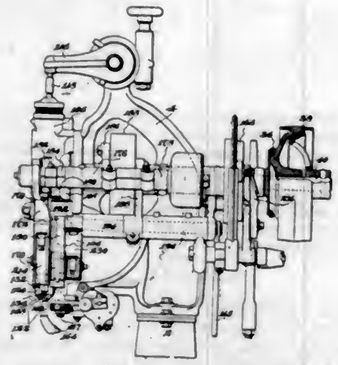
1. A draft gear comprising a pair of follower casings, intercalated friction elements within said casings, means for creating lateral pressure on said elements during compression of said gear, and separate means for releasing said pressure at each end of said gear after compresaion, said means comprising a plurality of springs within said casings extending substantially the length of said gear.

1,684,389. CARD FEEDING AND HANDLING DEVICE. EUGENE A. FORD, Scarsdale, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed June 1, 1925. Serial No. 34,077. 21 Claims. (Cl. 271—44.)



1. In a machine of the character described, in combination, a card magazine, a floating card throat, and automatic means to maintain said throat in alignment with the edge of the card about to be fed.

1,684,390. FASTENING-INSERTING MACHINE. GEORGE GODDU, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 6, 1920. Serial No. 394,091. 42 Claims. (Cl. 1—18.)



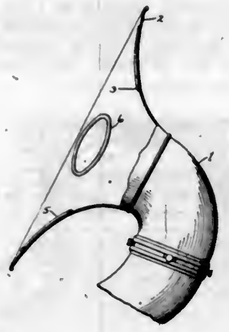
1. In a machine of the class described, a frame, a head mounted for to and fro movement on the frame, a fastening receiver carried by the head for movement between fastening receiving position and a position in the line of drive of the fastenings, mechanism for operating the head, means for supplying fastenings to the receiver, means for driving the fastenings, an awl, a carrier for the awl mounted on the frame for movement independently of the head, and means for operating the awl carrier.

1,684,391. CONTAINER FOR ANNEALING AND SIMILAR PURPOSES. J BIRCHARD GREEN, Chicago, Ill. Filed Jan. 26, 1927. Serial No. 163,581. 5 Claims. (Cl. 263—40.)



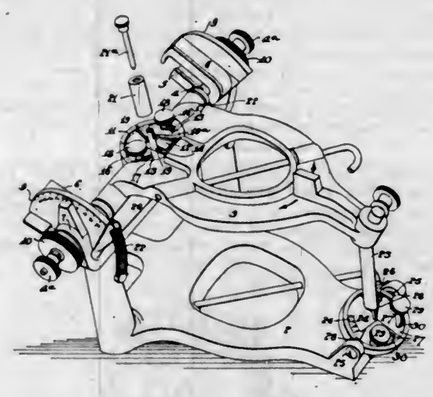
1. A container for annealing and similar purposes composed of one of more anchorage pieces, a skeleton framework, and a sheet covering, said container being elongated and said covering being corrugated in a direction transversely of the elongation.

1,684,392. HORN BELL. EDWARD J. GULICK, Elkhart, Ind. Filed Apr. 3, 1926. Serial No. 99,436. 10 Claims. (Cl. 84—387.)



5. In a bell for a wind musical instrument of the class described, a reinforcing means for said bell and comprising a strip of metal bent longitudinally and laterally thereof to conform to the curve of the bell and having its ends united to form an endless element, said reinforcing element being soldered to the face of the bell.

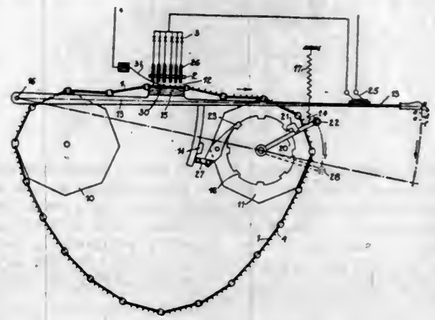
1,684,393. DENTAL ARTICULATOR. ALFRED GYSI, Zurich, Switzerland, assignor to The Dentists' Supply Company, a Corporation of New York. Filed Nov. 2, 1926. Serial No. 145,758. 8 Claims. (Cl. 32—1.)



1. In an articulator, the combination of two denture carrying frames having a relative pivotal connection whereby one may be adjusted relatively to the other, condyle guides between the frames, pivotal devices having an upright axis and separate from the condyle guides for causing one of the frames to oscillate relatively to the other, and means for putting the pivotal devices into and out of operative action, whereby when the normal pivotal action is put out of operation one of the frames may be given a protrusive movement relatively to the other frame.

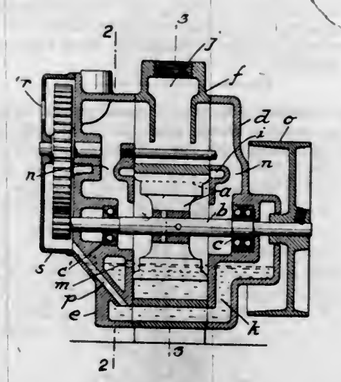
1,684,394. SIGN CONTROLLER. MAX HAASE, Buchschlag, Germany. Filed Feb. 10, 1927, Serial No. 167,187, and in Germany Dec. 24, 1925. 3 Claims. (Cl. 200—46.)

1. In an apparatus of the kind described, the combination with two rotatable drums of polygonal cross-section, of an endless chain composed of single elements hingedly connected together allowing for play between said elements, said elements being adapted to pass successively over said drums and provided with holes arranged in certain sequences, contact pins frictionally held in said holes, pivoted members, a plate carried by said members intermediate said drums, a system of lamp contacts disposed opposite said plate, a switch, means acting on said pivoted members to normally close said switch



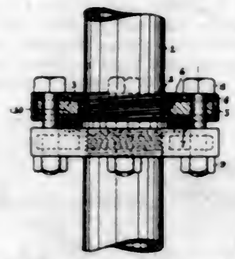
and move said plate toward said lamp contacts, and means adapted to be operated by said pivoted members to impart to one of said drums a partial rotation at any desired time intervals, the arrangement being such that upon the initial movement of said pivoted members to rotate one of said drums, said switch is opened, and said plate is withdrawn from said lamp contacts, so as to release the element supported by said plate.

1,684,395. VACUUM PUMP. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 30, 1926. Serial No. 151,659. 2 Claims. (Cl. 230—205.)



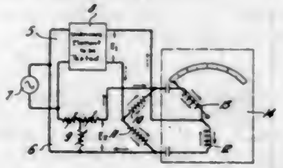
1. In a vacuum pump, the combination with a housing, a hollow rotor eccentrically disposed therein, slidable vanes extending into the hollow interior of the rotor and into the air space between rotor and housing, an oil reservoir in the housing, the housing being provided with an inlet and an outlet to said air space, and a discharge to atmosphere communicating with said outlet, of means providing a relatively unrestricted passage for air between the hollow interior of the rotor and said discharge, there being an opening between the oil reservoir and the hollow interior of the rotor allowing flow of oil from reservoir to rotor, said opening being relatively restricted to limit the flow of air therethrough relative to the flow of air between the hollow interior of the rotor and the discharge.

1,684,396. REENFORCED FLANGE. FLORENT HINNEKEN, Paterson, N. J. Filed Nov. 4, 1926. Serial No. 146,162. 1 Claim. (Cl. 285—137.)



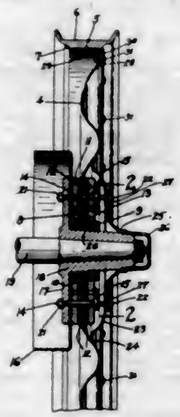
A peripherally threaded collet to have a screw-threaded engagement with and thus form a union-flange on one of two conductor parts to be joined comprising a metal annular core and a hard rubber annular shell and having holes for clamping devices extending substantially parallel with its axis and penetrating the core and shell, said shell completely encasing the core but leaving the metal of the core exposed within the holes.

1,684,397. ELECTRICAL TESTING. FRANCIS A. HUBBARD, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1924. Serial No. 758,978. 16 Claims. (Cl. 175—183.)



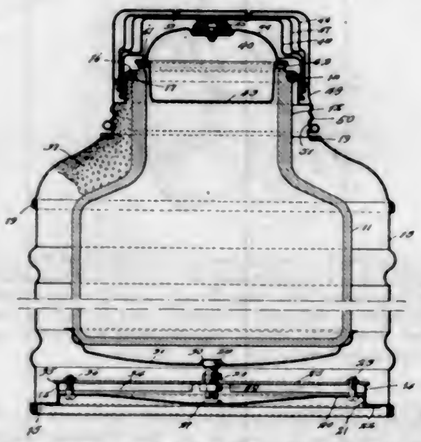
1. The method of comparing two voltages which comprises measuring the product of their vector sum, their vector difference, and the cosine of the angle between their sum and difference.

1,684,398. DISK WHEEL. CLARENCE S. JOHNSTON, Glendive, Mont. Filed Mar. 19, 1925. Serial No. 16,716. 6 Claims. (Cl. 301—9.)



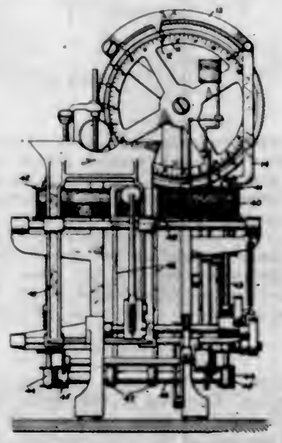
1. In a disk wheel, the combination with a peripherally flanged hub having a central bore, of a circular disk forming the body of the wheel, mounted thereon, annular clamping members also mounted on the hub to secure the disk thereto, flexible means interposed between the clamping members and the disk adapted to absorb vibration of the wheel when in motion, thereby to render it noiseless, and means for securing together said flexible means, clamping members and disk.

1,684,399. CONTAINER. JOSEPH F. LAMB and FRANK W. SCHADE, New Britain, Conn., assignors to Landers, Frary & Clark, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 21, 1925. Serial No. 17,169. 4 Claims. (Cl. 215—12.)



1. A container comprising a metal casing, a crock within the casing and spaced therefrom, the casing having a bottom opening capacitated for passage of the crock, the casing having an upright shouldered flange defining said opening, a supporting element seated on the edge of said flange, a yieldable seat for the crock supported from said supporting element, a heat-insulating filling material in the space between the crock and casing, a closure for the bottom opening having a shoulder embracing the shoulder of the flange, and screws removably securing the closure to said supporting element.

1,684,400. MULTICOLORED RIBBON-CONTROL DEVICE FOR TIME RECORDERS. CLINTON E. LARRABEE, Binghamton, N. Y., assignor to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed Jan. 20, 1925. Serial No. 3,574. 5 Claims. (Cl. 234—1.)

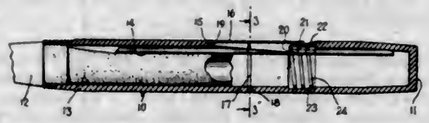


1. In a time recorder, in combination with a controlling member for controlling ribbon shifting operations, means for controlling the position of said member, said means including a time driven program wheel, a notched disk intermittently advanced under control of said program wheel, a star wheel rotatable with said notched disk, a follower cooperating with said star wheel and connections therefrom for controlling the position of the controlling member, and means for positively locking said notched disk and said cooperating star wheel against advance, or retraction after each advance thereof.

1,684,401. TEXTILE DYE. WINTHROP S. LAWRENCE, New York, N. Y. Filed Mar. 30, 1927. Serial No. 180,261. 2 Claims. (Cl. 8—6.)

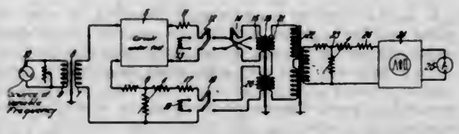
1. A textile dye containing a basic-dye-zinc-tannate lake, a thickening agent and a glycolic compound.

1,684,402. FOUNTAIN PEN. CLINTON E. MARSHALL, Brooklyn, N. Y. Filed Mar. 10, 1926. Serial No. 93,596. 5 Claims. (Cl. 120—46.)



1. In a pen of the class described, a lever pivotally mounted in the body of the pen, a finger piece at one end of the lever whereby the other end of said lever may be moved into the body of the pen, and means adjacent the finger piece end of the lever and cooperating therewith for retaining said lever in inoperative position and in parallel relation with reference to the wall of said pen body, said means comprising a coil spring mounted in the bore of said pen body and cooperating with a notched portion on said lever.

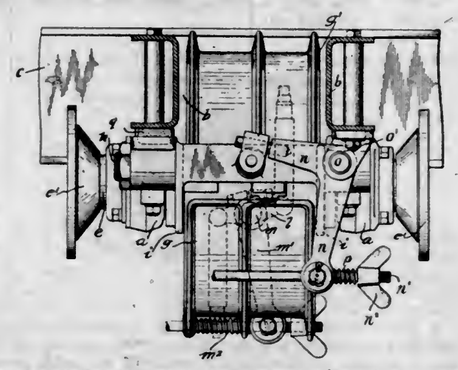
1,684,403. ELECTRICAL TESTING SYSTEM AND METHOD. WARREN P. MASON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 29, 1926. Serial No. 112,598. 10 Claims. (Cl. 179—175.)



10. The method of measuring the phase shift through an electrical element comprising first determining a quantity involving only amplitude relations between current transmitted from a source through the element and another current from the same source transmitted around said element, and the deriving therefrom the angle of phase shift through said element.

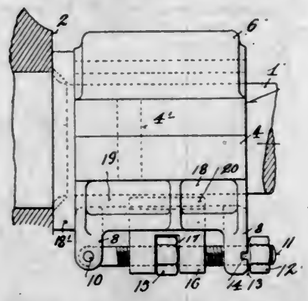
1,684,404. BRAKE MECHANISM. ALFRED F. MASURY and CHARLES FROESCH, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 23, 1924. Serial No. 715,297. 4 Claims. (Cl. 188—140.)

1. In combination, a propeller shaft, a brake drum mounted on said propeller shaft, a movable brake shoe anchor, a brake shoe for engagement with said brake drum and carried with said anchor, a vehicle wheel, a brake drum carried thereby, a brake shoe, means to apply said last named brake shoe to said last named brake drum, operative connections between said movable brake shoe



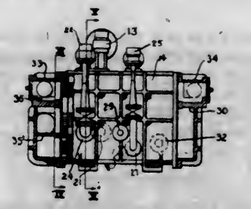
anchor and said means, and means to permit predetermined movement of the brake shoe anchor before the last named brake shoe is applied to the brake drum.

1,684,405. JOURNAL-BEARING CONSTRUCTION. JOHN S. MCWHIRTER, Southport, Conn. Filed Aug. 3, 1926. Serial No. 126,761. 3 Claims. (Cl. 308—237.)



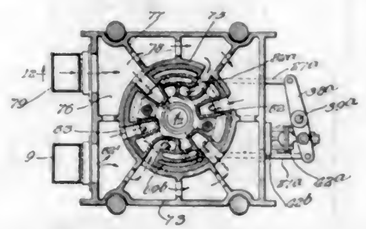
2. In a bearing construction, the combination with a bearing housing, of a lining for said housing having a slot therein, a wedge adapted to move in said slot, a threaded rod pivotally mounted on said housing and a nut on said rod adapted to engage said wedge to move it in said slot.

1,684,406. AIR-EJECTOR APPARATUS. DAVID W. R. MORGAN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 12, 1926. Serial No. 141,165. 17 Claims. (Cl. 257—24.)



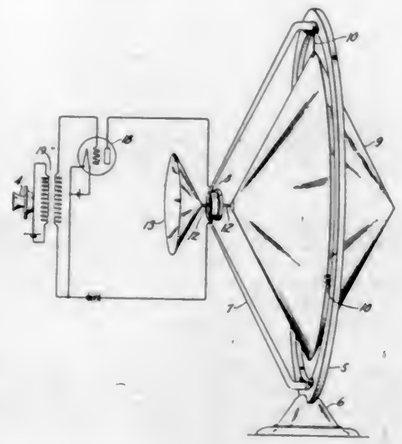
1. In a heat exchanger of the type described the combination of a shell, means dividing the shell into three adjacent chambers, water tubes in each chamber, and means for passing gaseous media through all of said chambers in series and upwardly through two of said chambers.

1,684,407. INTERNAL-COMBUSTION ENGINE. ERNEST NIBBS, New London, Conn., assignor to Electric Boat Company, Groton, Conn., a Corporation of New Jersey. Filed Nov. 1, 1926. Serial No. 145,386. 27 Claims. (Cl. 123—61.)



7. In combination with an internal combustion engine including a cylinder and a piston operating in the cylinder, a cylinder head having a series of air inlet ports of segmental shape extending therethrough from its outer face to its inner face and disposed radially of the head, the broader portion of the openings being toward the periphery of the head, and valve means for opening and closing said ports.

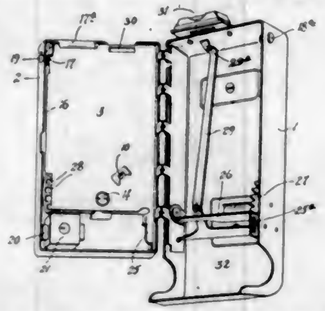
1,684,408. ACOUSTIC SYSTEM. ALEXANDER MCL. NICOLSON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 23, 1923. Serial No. 620,721. 9 Claims. (Cl. 181—31.)



1. In combination in a loud-speaking sound-reproducing device, a plurality of freely moving large direct-acting diaphragms having widely different resonance characteristics and arranged to project sound waves into the same region of the atmosphere, and means for operating said diaphragms simultaneously in response to a common source of sound-wave energy.

1,684,409. VENDING MACHINE. MATTHEW G. O'NEIL, Dallas, Tex., assignor, by mesne assignments, to Standard Vending Corporation, Wilmington, Del., a Corporation of Delaware. Filed Feb. 11, 1921. Serial No. 444,244. 4 Claims. (Cl. 194—85.)

1. A coin-controlled vending machine comprising a box for containing the articles to be vended, a tiltable tray mounted in the box for supporting the articles, a toothed segment connected therewith, a hinged cover for the box, and coin-controlled mechanism supported in the cover including a notched segment adapted to engage with the toothed segment to tilt the tray to deliver the articles from the machine.



1,684,410. SHELVING. ROY A. OSTRAM and CARL EDWARD FRYKDAHL, Duluth, Minn., assignors to Duluth Show Case Company, Duluth, Minn., a Corporation of Minnesota. Filed Mar. 30, 1927. Serial No. 179,461. 7 Claims. (Cl. 211—148.)



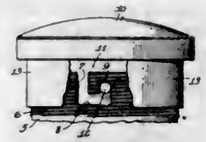
5. A store fixture comprising a plurality of rear uprights and lower posts, base boards connected to said uprights and said posts, upper and lower cross members connecting said uprights and said posts together, a longitudinal member mounted on said upper cross members, intermediate posts removably mounted on said top cross members and engaging said longitudinal member, a top mounted on said uprights and said intermediate posts and connected thereto, metal plates having a flange rabbeted in the base boards and arranged on the top and connected to the end posts.

1,684,411. WOOD-CHIPPING MACHINE. JOHN RAE, Ocean Falls, British Columbia, Canada. Filed May 15, 1926. Serial No. 109,404. 3 Claims. (Cl. 83—75.)



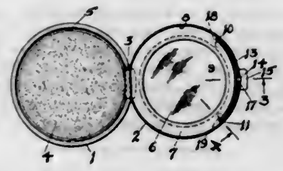
1. A chipper comprising a rotary knife-carrying disk; a triangular feed chute with a flat removable inclined top, the mouth of said chute being eccentric to the axis of said disk and projecting to just clear the knives of the latter; and a fixed knife disposed angularly to the horizontal plane and adapted to coact with the knives of said disk.

1,684,412. RADIATOR-CAP-LOCKING DEVICE. LEO A. REINER, Detroit, Mich. Filed May 13, 1925. Serial No. 29,969. 2 Claims. (Cl. 220—40.)



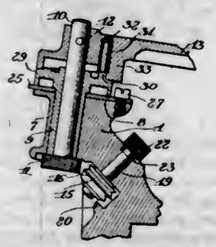
1. A radiator filling connection provided with a plurality of slots having return portions, a cap overlying said filling connection and having a neck to fit in the filling connection and cover said slots, outwardly extending studs carried by the neck of said cap and extending into the slots of said connection and adapted to engage in the return portions of said slots, and a ring screwed on said filling connection adapted to be shifted to cover said slots and engage under said cap to force said cap upwardly from said connection and hold said studs in the return portions of the connection slots.

1,684,413. SPRING CATCH FOR VANITY BOXES. PHILIP A. REUTTER, Waterbury, Conn., assignor to Scoville Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 21, 1928. Serial No. 279,416. 4 Claims. (Cl. 132—83.)



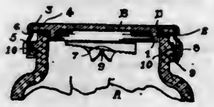
1. In a vanity case, a body, a cover, a hinge pivotally associating these parts, a toilet article in one of the parts, a bezel holding the article in place, shoulders formed on the bezel, and a spring strip having a catch for holding the body and cover together and a manual release, said strip having a part engaged beneath the bezel by which the strip is held in position, the ends of the strip lying between the shoulders of the bezel.

1,684,414. CAN-OPENING MACHINE. ADOLPH RYDQUIST, Rochester, N. Y. Filed Sept. 25, 1922. Serial No. 590,286. 5 Claims. (Cl. 30—3.)



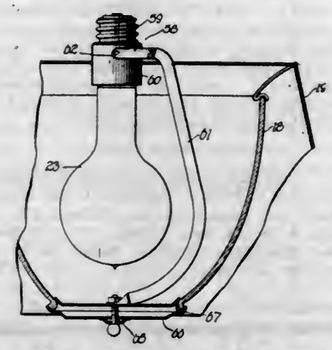
1. In a can opening machine, the combination with an anvil adapted to cooperate with the inner side of the can bead, of a detachable reversible rotary cutter having, in one position, a cutting edge adapted to travel peripherally of the bead in direct opposition to the anvil and, in the other position, a second cutting edge adapted to travel peripherally of the can just below the bead.

1,684,415. CONTAINER CLOSURE. FLAVIUS RANDOLPH SCHRIVER, Wilkinsburg Borough, Pa. Filed Mar. 5, 1927. Serial No. 173,025. 7 Claims. (Cl. 215—44.)



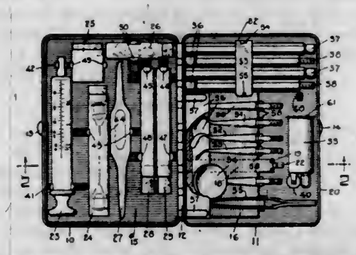
1. A container closure comprising a glass disk adapted to fit on the mouth of the container, and a metal clamping ring having a skirt arranged to engage the neck of the container and an inwardly extending annular flange, the disk being held within the clamping ring so that the closure may be applied to and removed from the container as a unitary structure, provision being made for relative rotative movement between the disk and the clamping ring.

1,684,416. LIGHTING FIXTURE. EDMUND O. SCHWEITZER, Chicago, Ill. Filed Feb. 18, 1921. Serial No. 446,199. 2 Claims. (Cl. 240—78.)



1. In combination, a combined plug and socket member, a supporting arm depending from said member and arched outwardly away from the same, said arm being pivoted at its upper end to the plug and socket member at diametrically opposite points thereof and the lower end of the arm being aligned with the plug and socket member, and a shade supported by the lower end of the arm and extending upwardly about the same and in concentric relation to the plug and socket member.

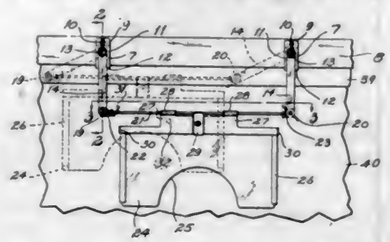
1,684,417. DENTIST'S KIT AND INSTRUMENT SUPPORT. HARRY A. SILBERMAN, Jersey City, N. J. Filed Apr. 28, 1925. Serial No. 26,360. 12 Claims. (Cl. 206—16.)



1. A dentist kit and instrument support comprising a pair of complemental compartment members, tray members in said compartments, said tray members including spring

finger clasps, struck up therefrom adapted to hold a plurality of dental instrumentalities in removable engagement, one of said tray members being arranged for pivotal movement in its respective compartment and including interchangeable instrument members, and a brace member adapted to hold said tray in an upright angular position whereby the assembly of said instrument members may be accomplished without hand contact therewith.

1,684,418. GLARE SHADE. WILLIAM A. SIMMONS, Eldon, Mo., assignor to Simmons Glare Shield Company, Eldon, Mo., a Corporation of Missouri. Filed Feb. 21, 1927. Serial No. 169,782. 5 Claims. (Cl. 296—97.)



2. A glare shade comprising a pair of brackets adapted to be secured to a frame in spaced apart horizontal alignment to each other, a link pivotally carried at one end by each of said brackets, a rod pivotally carried by said links at their lower ends, means for locking said rod and links against movement, a sheet of translucent material slidably carried by said rod, and means for holding said translucent material against accidental sliding.

1,684,419. CENTRIFUGAL CASTING MACHINE AND METHOD OF CASTING. MICHAEL C. SMOTZER, Coshocton, Ohio, and JOHN A. BYERS, Chicago, Ill., assignors to James B. Clow & Sons, Chicago, Ill., a Corporation of Illinois. Filed Sept. 13, 1926. Serial No. 134,971. 11 Claims. (Cl. 22—65.)



1. A method of casting cylindrical bodies centrifugally comprising accumulating molten metal in one portion of a distributor adapted to be disposed substantially horizontally within a mold form, until a predetermined quantity has been accumulated therein, thereafter accumulating molten metal in a successive portion of the distributor until a predetermined quantity has been received therein, and thereafter flowing the metal accumulated in the said portions from the distributor into the mold.

1,684,420. TIRE COVER. WILLIAM T. SUTHERLAND, Chicago, Ill. Filed Sept. 10, 1926. Serial No. 134,619. 6 Claims. (Cl. 150—54.)



1. A tire cover comprising a circular metal element transversely divided into sections of a segmental arc shape and pivotal hinges connecting the sections, each section in transverse cross section presenting an intermediate crown-like portion, and annular extensions from each edge curved to contact the curved side walls of the tire, the annular edge of one extension terminating in contact with the tire wall short of the point of widest transverse sectional width of the tire, the other extension being of greater width, the annular edge of which latter terminates in contact with the tire wall immediately adjacent the bead thereof.

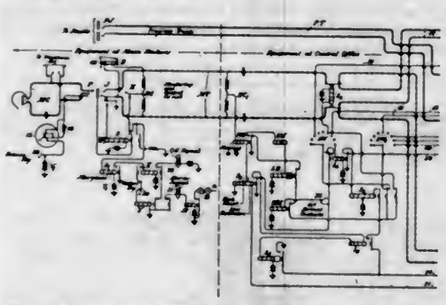
1,684,421. METHOD OF INCASING EDIBLES AND THE INCASED EDIBLES. WILLIS D. THOMPSON, Spokane, Wash., assignor of one-fourth to Carl H. Crawford, Spokane, Wash. Filed Nov. 22, 1922. Serial No. 602,669. 4 Claims. (Cl. 99—8.)



1. The herein-described method of providing a perishable edible body with a hermetical casing and affording the consumer a way of shattering the set casing, which consists, in wrapping the bight of a string about a central portion of a cold edible body and holding the string ends in the fingers, in dipping the cold edible body in a hot casing forming bath whereby the bight of the string will bond with the casing when set, in withdrawing the casing enclosed edible body by the free string ends whereby the edible body will be completely incased without sealing or "touching" the casing, the free string ends being later stressed by the consumer to shatter the set casing substantially mid-way of the latter, whereby the upper portion of the casing can be removed and the lower portion employed as a cup for holding the edible.

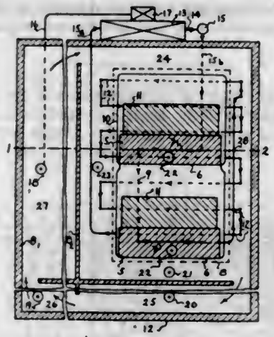
2. As an article of manufacture, an edible body, an integral casing enclosing said body and hermetically sealing the latter, and a subdividing string bonded to said casing and extending about the latter substantially midway of the ends of said casing for subsequently subdividing the latter, whereby one casing portion may be removed and the other used as a receptacle for the edible.

1,684,422. MONITORING AND CONTROLLING CIRCUITS FOR PROGRAM DISTRIBUTION. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 31, 1924. Serial No. 729,376. 12 Claims. (Cl. 179—170.)



1. In a signaling system, a transmission circuit extending between two stations, means to impress signals upon said circuit at one of said stations, an auxiliary monitoring circuit extending between said stations, an attendant's monitoring set at said first station, and means at said second station controllable by the attendant at said first station, to connect said monitoring circuit to the terminals of said first mentioned circuit at said second station to enable the attendant to monitor the transmission of signals from said first to said second station.

1,684,423. PROCESS AND APPARATUS FOR REFRIGERATION. GARDNER TUFTS VOORHEES, Boston, Mass. Filed Nov. 29, 1920. Serial No. 427,144. 11 Claims. (Cl. 62—170.)



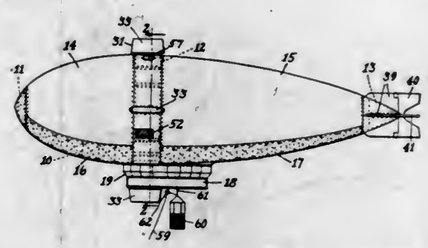
1. A process of cooling a storage space which consists of confining within said space a mass of water and a second mass of latent heat of fusion liquid having a lower freezing point than water in heat exchanging relation with each other, circulating a primary refrigerant in heat exchanging relation to the latent heat of fusion liquid until both liquid masses are all or partly frozen and then, when the refrigerant's circulation is stopped, preventing the all or partly frozen water from melting and maintaining the air within the storage space in a cold condition by the latent heat of said second all or partly frozen liquid.

1,684,424. VALVE MECHANISM. WILLIAM B. SMITH WHALEY, New York, CHARLES A. MULLER, Brooklyn, and CHARLES M. TURSKY, New York, N. Y., assignors, by direct and mesne assignments, of two-thirds to Whaley Engine Patents, Inc., New York, N. Y., a Corporation of Delaware, and one-third to said Muller. Filed Sept. 1, 1925. Serial No. 53,820. 20 Claims. (Cl. 123—188.)



1. In an internal combustion engine, a member having a valve port, a main air valve, an interrupter valve therefor, means for moving said valves relatively to said port to control the opening and closing thereof and for moving said interrupter valve relatively to said main valve to interrupt the flow of air through said port and main valve at a predetermined point in the engine cycle.

1,684,425. SEMIRIGID AIRSHIP. WELLINGTON B. WHEELER, El Segundo, Calif. Filed June 8, 1927. Serial No. 197,304. 5 Claims. (Cl. 244—10.)

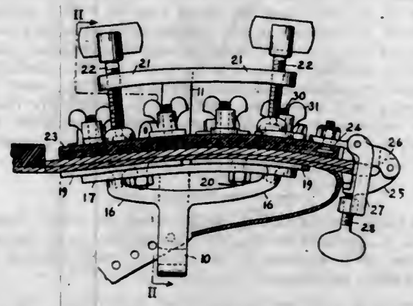


2. In an airship, of the dirigible type, a transverse ring compartment built into the body thereof, forwardly of its middle part; a blower mounted in said ring compartment with an engine adapted to drive it; a series of air conduits connected to said blower, said air conduits terminating in pivoted nozzles which project radially from said ring compartment and are bent so that their orifices extend at right angles to the axis of said conduits, and means for turning each of said nozzles about the axis of the conduit which it terminates.

1,684,426. METHOD OF TREATING PETROLEUM PRODUCTS. EVERETT RAYMOND WILES, Barnsdall, Okla. Filed Apr. 24, 1923. Serial No. 634,367. 1 Claim. (Cl. 196—20.)

The method of recovering amorphous paraffin of high melting point from petrolatum, which comprises treating the petrolatum with a mixed solvent consisting of approximately 35% of acetone and 65% of benzol, cooling the solution and separating the paraffin therefrom.

1,684,427. SOLE CLAMP. APCAR YOSGATT, Hoboken, N. J. Filed Jan. 7, 1927. Serial No. 159,562. 4 Claims. (Cl. 12—38.)

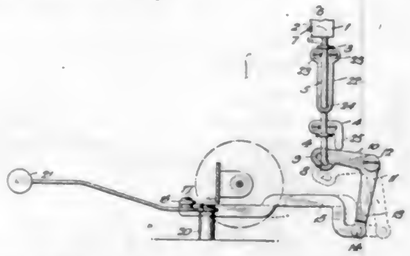


1. A sole clamp for pressing an outsole against a shoe bottom provided with a foot, and a plurality of pressure plates which are adjustably secured to the foot for bearing directly against the inner side of the shoe bottom.

1,684,428. BACK-SPACE MECHANISM. JOHN H. BARR, Ithaca, N. Y., assignor to Barr-Morse Corporation, a Corporation of New York. Filed Aug. 1, 1925. Serial No. 47,403. 18 Claims. (Cl. 197—91.)

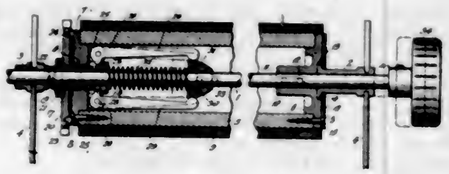
1. In a typewriting machine, a rack member movable with the carriage, a pawl mounted for sliding and rotary movement, a back space key, connections between said back space key and pawl for rotating said pawl into engagement with the teeth of said member, and then moving the pawl endwise to carry the carriage with it during

the one stroke of the key, and for rotating the pawl out of engagement with the teeth at the beginning of the return stroke and then moving the pawl endwise to its initial



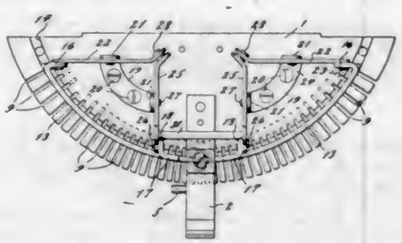
position while out of engagement with the teeth, and means frictionally engaging the pawl for yieldingly holding it in any of the positions in which it may be placed by said connections.

1,684,429. PLATEN-ADJUSTING MECHANISM. JOHN H. BARR, Ithaca, N. Y., assignor to Barr-Morse Corporation, a Corporation of New York. Filed Oct. 7, 1925. Serial No. 60,974. 18 Claims. (Cl. 197—123.)



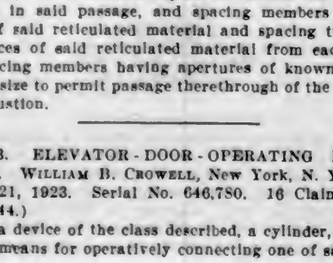
1. In platen adjusting mechanism, a platen shaft, spaced apart bearings supporting said shaft for endwise and rotary motion, a platen core disposed on said shaft between said bearings and coupled to said shaft in such a manner that the platen will always be rotated upon rotation of the shaft and the shaft may be shifted endwise without interruption of the driving connection between it and the core, a ratchet wheel, a sleeve slidable and rotatable on said shaft and mounting said ratchet wheel, and means controlled by endwise movement of the shaft for drawing said sleeve into said core to frictionally couple the ratchet wheel and core for concomitant rotation, and operable to cause a release of said sleeve when disconnection of the ratchet wheel and platen is desired.

1,684,430. UNIVERSAL BAR. JOHN H. BARR, Ithaca, N. Y., assignor to Barr-Morse Corporation, a Corporation of New York. Filed Dec. 5, 1925. Serial No. 73,338. 16 Claims. (Cl. 197—97.)



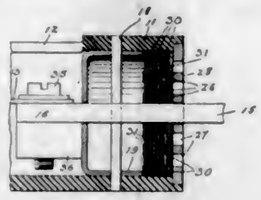
12. In a typewriting machine, a type bar support, a plurality of type bars arranged along the same and connected thereto for movement into printing position, a bar extending along said support in a position to be engaged and operated by any bar moving toward printing position, a plurality of substantially straight levers arranged substantially parallel to and adjacent the support and connected to one another and to at least three spaced points of said bar for insuring equal movements of all points of said bar independently of which type bar causes operation thereof.

1,684,431. PROCESS OF LETTERING ON STONE MONUMENTS AND OTHER HARD SUBSTANCES. JOSEPH H. BEHEE, Jr., Independence, Mo. Filed Sept. 25, 1926. Serial No. 137,804. 1 Claim. (Cl. 41—39.)



The process of lettering stone monuments consisting of applying on the face of the stone a composition having the consistency of gelatine and pressing therethrough outline forms of letters and withdrawing the same after the composition has stiffened and thereby leaving the face of the stone exposed corresponding to the outline forms of the letters and then applying a sand blast to countersink the outline forms of letters in the stone and then removing the composition from the face of the stone about the countersunk outline forms of the letters and apply thereto a sand blast and reduce the same to the plane of the countersunk outline of the letters to thereby form letters in relief on the face of the stone.

1,684,432. RENEWABLE FUSE. JOHN G. CLEMENS, Eggertsville, N. Y., assignor to Pierce Renewable Fuses, Inc., Buffalo, N. Y. Filed Oct. 1, 1926. Serial No. 138,978. 6 Claims. (Cl. 200—120.)

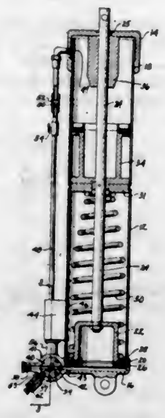


1. A fuse having a passage for products of combustion, a plurality of successive layers of reticulated metallic material in said passage, and spacing members between layers of said reticulated material and spacing two adjacent pieces of said reticulated material from each other, said spacing members having apertures of known and invariable size to permit passage therethrough of the products of combustion.

1,684,433. ELEVATOR-DOOR-OPERATING MECHANISM. WILLIAM B. CROWELL, New York, N. Y. Filed June 21, 1923. Serial No. 646,780. 16 Claims. (Cl. 121—44.)

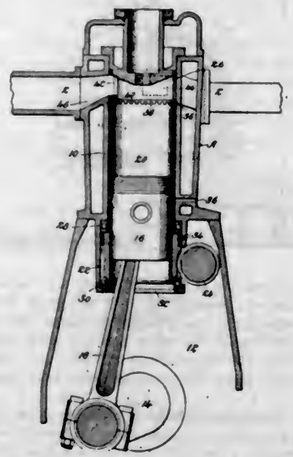
1. In a device of the class described, a cylinder, a piston therein, means for operatively connecting one of said parts

to a mechanism to be operated, means for admitting pressure fluid to operate said piston in one direction, spring means for opposing the said fluid pressure and for returning the piston when the said fluid pressure is released, a cup and plunger in the cylinder for cushioning the movements of said piston, a conduit connected to the lower



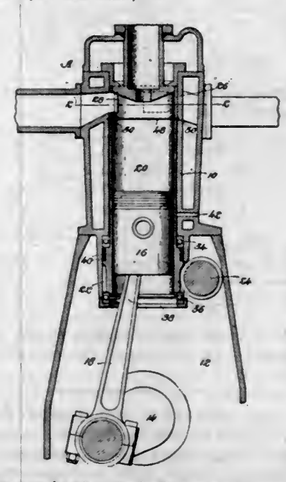
portion of the cylinder and adapted to conduct fluid to the cup and plunger to produce cushioning action during the pressure fluid operated stroke of the piston, means for releasing the fluid pressure on the piston, and means for entrapping a portion of the operating fluid to attain cushioning action during the return stroke of the piston.

1,684,434. INTERNAL-COMBUSTION ENGINE. DORSETT A. DAVISON, Richmond, Va. Filed Apr. 22, 1927. Serial No. 185,898. 12 Claims. (Cl. 123—80.)



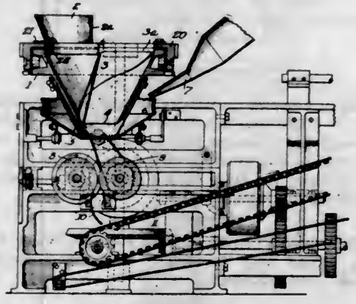
1. A valve mechanism including a split rotatable hollow cylindrical valve member, a rotatable hollow cylindrical liner for rotating said valve member, and a connection between said valve member and liner whereby the driving force of the liner is transmitted to the valve member only at the lead end of the latter as regards its direction of rotation.

1,684,435. INTERNAL-COMBUSTION ENGINE. DORSETT A. DAVISON, Richmond, Va. Original application filed Apr. 22, 1927, Serial No. 185,898. Divided and this application filed Apr. 22, 1927. Serial No. 185,899. 4 Claims. (Cl. 123—80.)



1. A valve mechanism including a split rotatable hollow cylindrical valve member, a rotatable hollow cylindrical liner for rotating said valve member, and a rigid connection between said valve member and liner of less circumferential extent than the distance around said valve member located at the lead end portion of said valve member as regards its direction of rotation.

1,684,436. SHEET-FORMING MACHINE. CHARLES E. DELLENBARGER, Philadelphia, Pa., assignor to Paul Carpenter, Glenview, Ill. Filed Sept. 23, 1920. Serial No. 412,239. 10 Claims. (Cl. 107—12.)

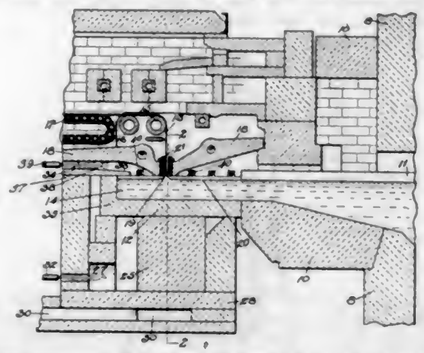


9. In a machine of the character described, in combination, a hopper and a mill, one of said elements being movable relatively to the other, about an axis, the hopper being provided with a passage from the inlet to the outlet thereof curved about said axis and an abutment adapted to guide the material into said passage, and an inclined surface by which the material is directed against said abutment.

1,684,437. SHEET-DRAWING APPARATUS. ENOCH T. FERNGREN, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 23, 1924. Serial No. 757,606. 13 Claims. (Cl. 49—17.)

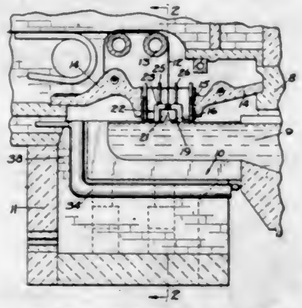
1. In sheet glass apparatus, means to draw a sheet of glass from a source of molten glass, including a sheet supplying meniscus, and heat absorbing means positioned on

both sides of the sheet and having a curved end whereby the said means can be placed relatively close to the sheet without interference to the sheet supplying meniscus, the



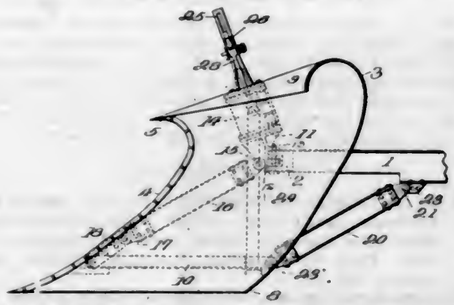
lower extremity of the heat absorbing means being a substantial distance from the base of the said sheet suplying meniscus.

1,684,438. PROCESS AND APPARATUS FOR MAINTAINING SHEET GLASS TO WIDTH. ENOCH T. FERNGREN, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 16, 1925. Serial No. 75,719. 14 Claims. (Cl. 49—17.)



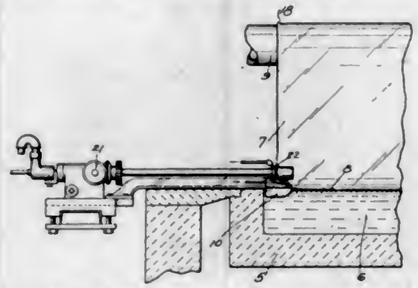
1. The process of drawing sheet glass from a pot, consisting in containing a mass of molten glass, forming a sheet supplying meniscus thereon, and producing adjoined glass areas having relative viscosities at the base of the meniscus edges, the glass having the lowest viscosity being adjacent the pot walls.

1,684,439. SNOWPLOW. HENRY FORT FLOWERS, Findlay, Ohio. Filed May 23, 1923. Serial No. 640,902. 3 Claims. (Cl. 37—30.)



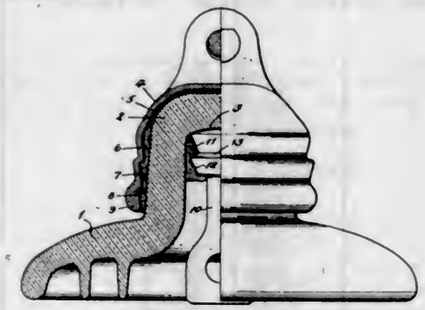
2. In a device of the class described, the combination with a supporting member of a vehicle, a snow plow, parallel links jointed to said plow and said member at the respective sides and front of the vehicle, a fluid pressure cylinder fixedly mounted on said member in the central plane of the vehicle and having a piston rod actuated therefrom, a crosshead pivoted on said rod, and links connecting the ends of said crosshead with the respective sides of said snow plow.

1,684,440. SHEET-GLASS-EDGE-FORMING MEANS. FRANK FRASER, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 5, 1925, Serial No. 35,062. Renewed Sept. 26, 1927. 10 Claims. (Cl. 49—17.)



1. In sheet glass apparatus, means for drawing a sheet from a mass of molten glass, stationary means arranged at the base of the sheet at its edges for retarding the movement of the glass entering the sheet edges, and rotatable means arranged above the said stationary means and closely adjacent thereto.

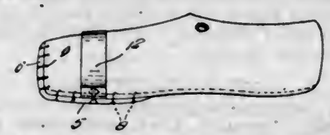
1,684,441. HIGH-TENSION INSULATOR. MINOR F. H. GOUVERNEUR, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Mar. 16, 1925. Serial No. 15,851. 4 Claims. (Cl. 173—318.)



1. In an insulator, a dielectric body and outer and inner metallic members secured thereto and each having a plurality of steps including conoidal surfaces, the angle of the conoidal surfaces of the outer member with respect to the vertical being substantially less than the angle of the conoidal surfaces of the inner member with respect to the vertical.

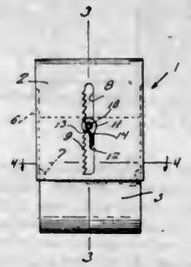
4. In an insulator, a body of dielectric material formed with an upstanding stem and further formed with a recess in its underside, a metallic cap secured upon the stem and a metallic pin secured within the recess, the cap having its lower portion formed with successive steps including conoidal surfaces connected by other conoidal surfaces normal thereto, and the pin being formed with a plurality of steps including conoidal surfaces connected by other conoidal surfaces normal thereto, the angle of the first named conoidal surfaces of the pin being a multiple of the angle of the first named conoidal surfaces of the cap when considered with respect to the vertical.

1,684,442. TAPPER AND PROTECTOR FOR TOE-DANCING SHOES. WILLIAM J. HANEY, North Vernon, Ind. Filed Sept. 22, 1927. Serial No. 221,320. 3 Claims. (Cl. 36—72.)



1. An attachment of the class described comprising an elongated plate slightly curved transversely and merging at one end in a right angularly extending toe plate, a split band having overlapping apertured ends and a bolt to extend through the apertures and through the elongated plate to secure the band thereto in different adjustments for fitting different size shoes.

1,684,443. BEDCLOTHES CLAMP. MARIE HARRIS, New York, N. Y., assignor of one-third to J. Boyd Burrowes, Washington, D. C., and one-third to Ernest Brayton, New York, N. Y. Filed Sept. 30, 1927. Serial No. 223,091. 1 Claim. (Cl. 24—72.5.)



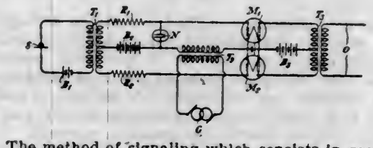
In a bed clothes clamp of the class described, a pair of complementary inner and outer plate-like sections having their inner opposed ends arranged in overlapped relations, the outer ends of the sections being bent to form opposed gripping jaws, inwardly extending ribs formed on the side edges of the outer section between which the inner plate like section is slidable, laterally extending ears formed on said ribs for maintaining the inner plate-like section in engagement with the inner face of the outer section, means for locking the complementary sections against sliding movement in one direction, said last mentioned means comprising a pawl and ratchet arrangement associated with said inner and outer plate like sections.

1,684,444. HOE WEEDER. ALFRED J. HAYDEN, Daytona Beach, Fla. Filed Aug. 29, 1927. Serial No. 216,237. 1 Claim. (Cl. 97—71.)



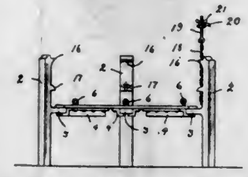
An improved hoe with a handle and a one piece hoe blade said blade having a series of relatively wide half-circle portions substantially at right angles to said handle on the lower edge, the side of said portions opposite to the side on which the handle is located being beveled to provide a sharp edge and with the side facing the handle plain, the spaces between said half-circle portions curving inwardly and upwardly to an apex point for gripping roots of weeds and the like, the depth of said half circle portions being such that the true character of the hoe, as such, is retained.

1,684,445. SIGNALING SYSTEM. RICHARD K. HONAMAN, Bloomfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 12, 1926. Serial No. 122,016. 13 Claims. (Cl. 179—171.)



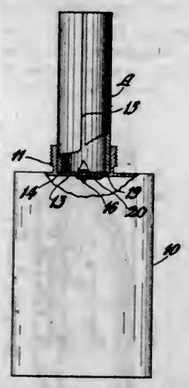
1. The method of signaling which consists in generating a high frequency wave, generating low frequency signals, modulating the high frequency wave by the low frequency signals when the magnitude of the low frequency signals wave when the magnitude of the low frequency signals drops below a predetermined value and freely transmitting the high frequency wave modulated by the low frequency signals when the magnitude of the low frequency signals rises beyond the predetermined value.

1,684,446. STAND. NEWTON R. INGLIS, Duluth, Minn. Filed Feb. 24, 1928. Serial No. 256,797. 3 Claims. (Cl. 144—288.)



1. A stand of the class described comprising a flat body portion, a plurality of upstanding body and rim supporting legs horizontally adjustably attached to the extremities of the body portion, and extending above and below same for the purpose described.

1,684,447. CAN-SPOUT-SEAL CUTTER. ALFRED JAESCHKE, Los Angeles, Calif. Filed Sept. 25, 1926. Serial No. 137,707. 2 Claims. (Cl. 30—3.)



1. In a device for cutting a metal can spout seal, a tube having one end adapted to rest upon the seal, said tube also having a longitudinal slot from end to end whereby said tube is adapted to have its entire perimeter shortened so as to frictionally and rotatably engage the interior of the spout, and a portion of the wall of the tube being

extended to form a dependent cutting element, said element being projected from the wall of the tube radially inwardly thereof and adapted to pierce said seal with a circular path when said tube is rotated whereby to leave an annular portion of the seal for the tube to rest upon while being rotated.

1,684,448. METHOD OF TREATING GARBAGE AND THE LIKE. REVERE P. KINKEL, Buffalo, N. Y. Filed Mar. 21, 1925. Serial No. 17,409. 9 Claims. (Cl. 23—119.)

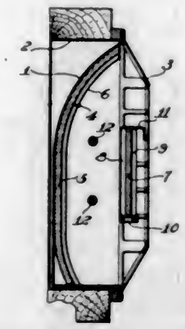
7. The hereindescribed method of treating garbage and similar material, consisting of subjecting the garbage to the drying action of a current of hot gases, recovering ammonia from said gases, burning the dried garbage, conducting the heat evolved during the burning to garbage which is being dried, to assist the drying thereof, and then using the residual heat in the ammonia recovery.

1,684,449. TENNIS RACKET. JACOB L. KLEINMAN, New York, N. Y. Filed July 31, 1926. Serial No. 126,210. 5 Claims. (Cl. 273—73.)



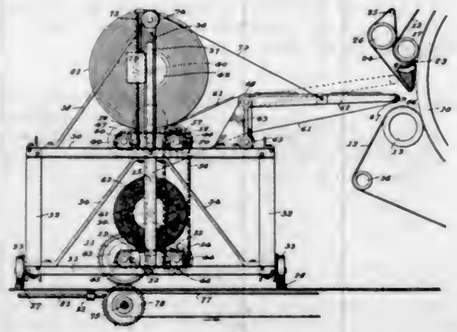
4. In a racket, a frame, a handle, a string tensioning device mounted in said frame, and removable means forming a part of said handle for operating said tensioning device.

1,684,450. ELECTRIC HEATER. JAMES H. KNAPP, Los Angeles, Calif., assignor to James H. Knapp Company, Los Angeles, Calif., a Corporation of California. Filed Aug. 27, 1926. Serial No. 131,899. 6 Claims. (Cl. 219—34.)



1. An electric heater comprising a casing having an open vertical front for lateral dissipation of heat, front and rear reflecting plates arranged in said casing, and an electric resistance element disposed between said plates, said plates forming a passage for upward flow of air between them, and the front reflecting plate being disposed between said resistance element and said open front of the casing to prevent direct radiation of heat from the resistance element through the front.

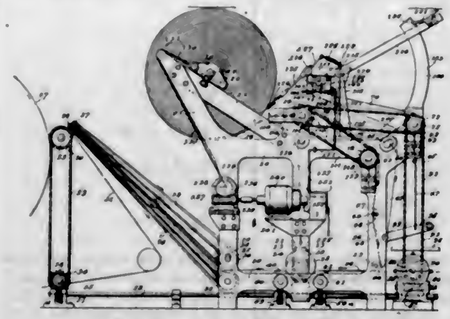
1,684,451. AUTOMATIC FEEDER FOR LAUNDRY MACHINERY. THOMAS L. LOWE, Devon, Conn., assignor to The Lowe Machinery Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 5, 1925. Serial No. 7,050. 36 Claims. (Cl. 68—9.)



1. In a machine of the character described, an apron adapted to have pieces of laundry placed thereon, a roll for receiving said apron with said pieces, whereby the diameter of the rolled apron increases as it is rolled on said roll, constant speed drive means for imparting variable angular and constant surface rotation to said roll and rolled apron in rolling and unrolling directions, said apron adapted to be unrolled in reverse direction to feed said pieces therefrom to an ironer or the like at uniform speed.

33. The method which comprises assembling articles to be ironed in close relationship, the parts of each article being arranged suitably for ironing, storing and conditioning the articles so assembled, and then feeding said articles to an ironing machine in the reverse order to their assembly and without disturbing their arrangement.

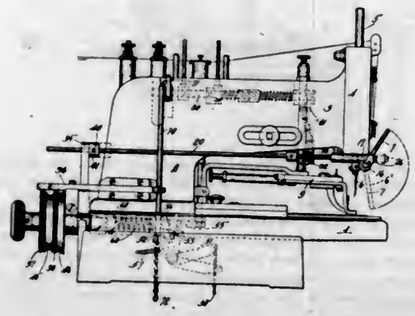
1,684,452. LAUNDRY-DISTRIBUTING APPARATUS. THOMAS L. LOWE, Devon, Conn., assignor to The Lowe Machinery Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 12, 1926. Serial No. 80,762. 33 Claims. (Cl. 68—9.)



1. In a machine of the character described, an apron, a pair of spaced rolls respectively connected to the ends

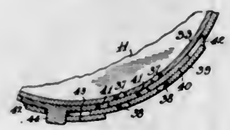
of said apron whereby the apron is adapted to be wound from one upon the other, drive means with which said rolls may have frictional driving engagement, and means for moving said respective rolls into spaced relation with said drive means whereby as one roll is rotated by its drive means, the other roll may be free of its drive means.

1,684,453. NEEDLE GUARD FOR SEWING MACHINES. ROBERT L. LYONS, Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Filed Jan. 9, 1925. Serial No. 1,431. 2 Claims. (Cl. 112—261.)



1. In a button sewing machine, a button clamp, means for moving said clamp into and out of button-presenting position, sewing instrumentalities including a needle, a needle guard movable to and from guarding position to protect the operator from flying pieces in case the needle breaks, and means actuated by said clamp moving means for moving said guard into and out of guarding position.

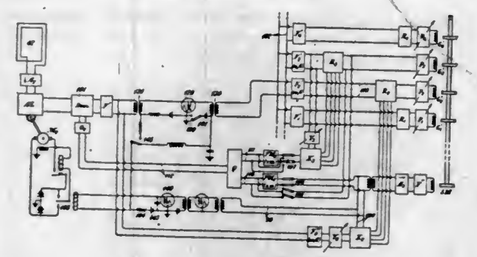
1,684,454. VANITY CASE. HARRY W. NOYES, West Haven, Conn., assignor of one-half to A. Graham Shields, New Haven, Conn. Filed Feb. 9, 1926. Serial No. 87,144. 29 Claims. (Cl. 132—83.)



1. In a vanity case; a body member; a powder compartment therein; powder ports through the walls thereof from the interior of the powder compartment to the exterior of the case; and a flexible diaphragm within the body member forming one wall of the powder compartment and a closure member for covering the ports.

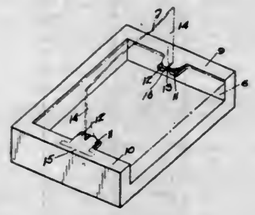
1,684,455. MULTIPLEX CARRIER-CURRENT SIGNALING. HARRY NYQUIST, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 13, 1926. Serial No. 108,939. 9 Claims. (Cl. 179—15.)

2. In a carrier current signal receiving system, a demodulator, a generator to supply current of carrier frequency to said demodulator, frequency controlling means for said generator, means to separate two components of different frequencies in the demodulator output, means to derive therefrom two currents that will be equal in frequency when and only when the said generator operates at the correct frequency, and means to compare said derived



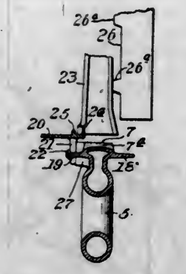
currents and by their departure from equality of frequency to make compensating adjustment through said frequency controlling means.

1,684,456. DRAW POT. JOSEPH A. REECE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 18, 1925. Serial No. 30,937. 12 Claims. (Cl. 49—17.)



1. In a sheet glass apparatus, a tank furnace containing a mass of molten glass, a draw-pot in open communication therewith, means for drawing a sheet from the glass in the pot, and slotted means carried by the sides of the pot, the slot therein being elongated in top plan and bulged at its center.

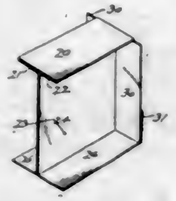
1,684,457. GAS BURNER. WILLIAM L. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio, a Corporation of Ohio. Filed Mar. 10, 1927. Serial No. 174,150. 1 Claim. (Cl. 126—92.)



Burner structure comprising a burner head having a plurality of orifices disposed longitudinally thereof, a fire tube support disposed above and to the front of the said orifices, a series of tongues extending from the rear edge of said support, each adapted to engage the lower edge of a burner tube to support the same, and each being of small
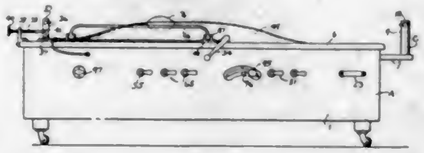
width relative to the internal diameters of the tubes, and a tube-supporting member disposed above and to the rear of the burner head, for preventing rearward tilting of fire tubes.

1,684,458. PARTITION FOR CONTAINERS. ARCHIBALD G. SMITH, Buffalo, N. Y. Filed Jan. 16, 1926. Serial No. 81,697. 6 Claims. (Cl. 229—15.)



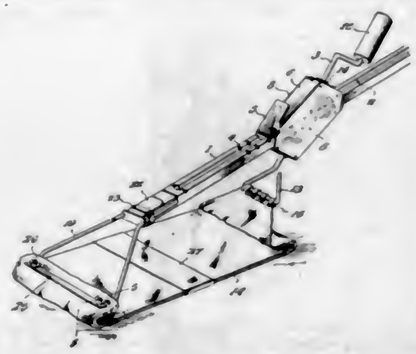
1. A partition for a container made of a single piece of sheet material folded upon itself intermediate its ends to provide an upright web portion and a top flange of double thickness of material, its free ends forming bottom flanges extending outwardly in opposite directions to the bottom of the web portion and adapted to rest against the bottom of the container.

1,684,459. TENSION AND PHYSIOTHERAPY TABLE. OLIVER P. SPILMAN, Houston, Tex. Filed Feb. 15, 1926. Serial No. 88,210. 9 Claims. (Cl. 128—71.)



5. A therapeutic device for use in the treatment of a patient, comprising a support, means at each end thereof to secure a patient on said support, means to exert tension between said securing means, a pneumatic cushion on said support, means to vary the pressure in different parts of said pneumatic cushion, and manually operated means to relieve said tension and deflate said cushion.

1,684,460. MOP. ROSS C. THOMPSON, Englewood, Colo. Filed June 10, 1927. Serial No. 197,920. 4 Claims. (Cl. 15—120.)



1. In a device of the character specified, a handle, a bail having end portions of its side members brought together against opposite sides of the handle and terminating in inner extensions which engage the handle, a clip having parts embracing the top and bottom of the handle and engaging the end thereof, the portion engaging the end of the handle projecting at the sides and notched to receive side portions of the bail, and a band encircling the clip and attaching ends of the bail to hold the same to the handle.

1,684,461. ELECTRICAL DEVICE. HARRY R. VAN DEVENTER, New York, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 1, 1922. Serial No. 604,395. 3 Claims. (Cl. 175—41.5.)



1. A variable condenser comprising a base, an element of electrically conductive material mounted on said base, a resilient element of electrically conductive material associated with the first element, but separated therefrom by a dielectric, said elements being retained in close proximity to each other at one point, said resilient element being divergent with respect to the first-named element from said point towards the end of said resilient element, a threaded shaft passing through said base, and a grooved nut upon said shaft, the resilient element having a bifurcated end to engage the grooved nut, so that upon turning the shaft, the grooved nut can move the resilient element into close relation to the first-named element progressively throughout its length.

1,684,462. MOUNTING FOR CUTTERS OF ROTARY WELL-DRILLING DISK BITS. WALTER T. WOODS, Long Beach, Calif., assignor to U. S. Tool Company, Long Beach, Calif., a Corporation of California. Filed Oct. 24, 1927. Serial No. 228,206. 6 Claims. (Cl. 255—71.)

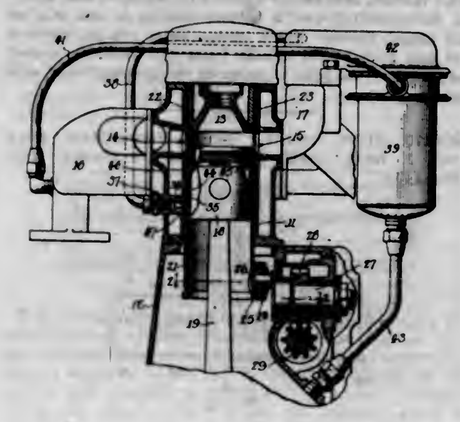


1. A rotary well drilling bit comprising a body, an opening through the body, a pin extending through said opening, a bushing mounted upon said pin, a disk cutter carried by said bushing, a washer between said disk cutter and body, said washer having a recess therein fitting the engaging end of the bushing.

1,684,463. LUBRICATION OF SINGLE-SLEEVE ENGINES. ARTHUR A. WOODWARD, Detroit, Mich., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich., a Corporation of California. Filed Dec. 29, 1926. Serial No. 157,675. 8 Claims. (Cl. 123—196.)

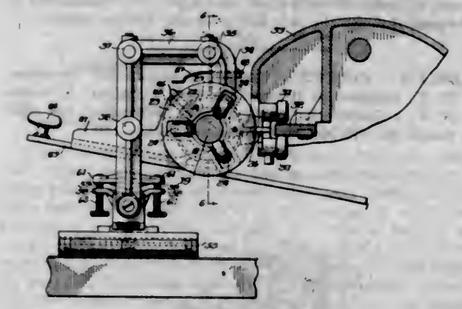
1. In an internal-combustion engine, the combination of an engine-cylinder having inlet and exhaust ports, a single

movable sleeve in said cylinder controlling said ports, a piston reciprocatory in said sleeve, means to lubricate said cylinder, sleeve and piston, and means to withdraw fluids



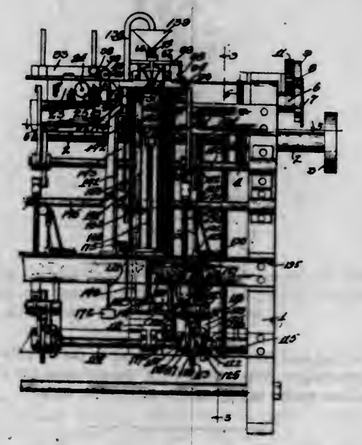
continuously from around said sleeve and intermittently from around said piston through the same cylinder port during the operation of the engine.

1,684,464. SANDING MACHINE. EARL R. YOUNG, Beloit, Wis., assignor to Yates-American Machine Company, Beloit, Wis., a Corporation of Delaware. Filed June 20, 1927. Serial No. 199,876. 2 Claims. (Cl. 51—141.)



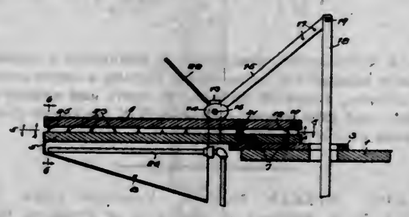
1. In a sanding-machine, the combination of a main-frame, a work-table reciprocatory thereon, a driven endless abradant-belt above said table, a stationary round shaft disposed lengthwise of said frame, a stationary bar arranged longitudinally of said frame, a sleeve slidable axially on said shaft and capable of turning around the axis of said shaft, a yoke in which said sleeve may turn, means to cause said sleeve and yoke to move lengthwise as a unit, means on said yoke cooperating with said bar preventing turning of the yoke but permitting its longitudinal travel, a standard on said yoke, a link hinged to said standard, an upright frame hinged to said link, an arm rigid with said sleeve hinged to said upright frame, an operating handle on said arm, and a pressure shoe mounted on the lower part of said upright frame, the mounting of said upright frame constituting a parallel-motion construction confining the position of said frame to a vertical relation.

1,684,465. SUNDAE-DISH-FORMING MACHINE. CESARE BARBIERI, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 6, 1924. Serial No. 748,009. 23 Claims. (Cl. 93—36.)



13. A receptacle forming machine comprising a driving mechanism, a plurality of receptacle forming units, and a plurality of independently controlled devices for each of said units to permit the devices of each of said units to be selectively connected with or disconnected from said driving mechanism independently of the operation of the remaining units.

1,684,466. ARTICLE-FORMING DEVICE. ROBERT BEARDSLEY, Chicago, Ill. Filed Apr. 4, 1927. Serial No. 180,925. 10 Claims. (Cl. 93—1.)

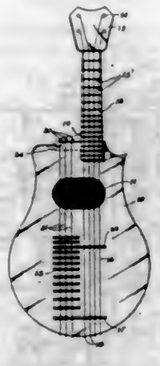


9. In a device of the kind described and in combination, a support, means mounted on said support for positioning one edge of a blank, a presser bar, means mounted upon said presser bar for positioning a second edge of said blank relative to said first mentioned edge, and means for producing relative movement between said support and presser bar to bring the positioned edges into contacting relation.

1,684,467. STRINGED MUSICAL INSTRUMENT. ALBERT BOOTHE, Colfax, Iowa. Filed Apr. 30, 1923. Serial No. 635,697. 4 Claims. (Cl. 84—263.)

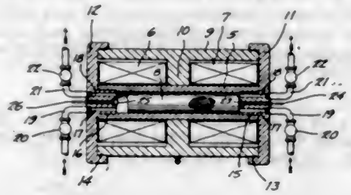
1. A stringed musical instrument of the guitar type comprising a body, a neck having a head, the neck being attached to and extending from the end of the body and to one side of the longitudinal center thereof, an auxiliary head which extends laterally from the neck to a point beyond the longitudinal center of the body, pegs for connecting strings to the heads and to the body of the instrument, a series of frets carried by the neck and body over which strings attached to the head on the neck pass, a series of frets attached to the body over which strings attached to the auxiliary head pass, a tail bridge common to both

sets of frets, a fret constituting one of the series for the strings which extend from the auxiliary head, said fret underlying the strings which overlie the neck, and a com-



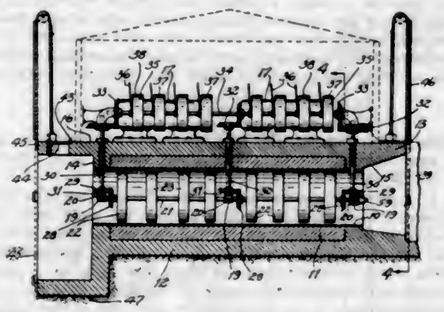
bined bridge and fret located adjacent to the auxiliary head and extending to constitute one of the series of the frets for the strings which engage the head on the neck.

1,684,468. PUMP. WARREN G. BROWN, Detroit, Mich. Filed Aug. 26, 1926. Serial No. 131,793. 2 Claims. (Cl. 230—55.)



1. A device of the class described comprising a cylinder, a piston adapted for reciprocation therein, a sleeve around the cylinder, a pair of coils in the sleeve and around the cylinder and caps secured on the ends of the sleeve closing the ends of the cylinder.

1,684,469. STREAM MOTOR. PASQUALE BUDA, New York, N. Y., assignor of one-fourth to Frederick Horowit, St. Louis, Mo. Filed Sept. 14, 1925. Serial No. 56,294. 2 Claims. (Cl. 170—130.)



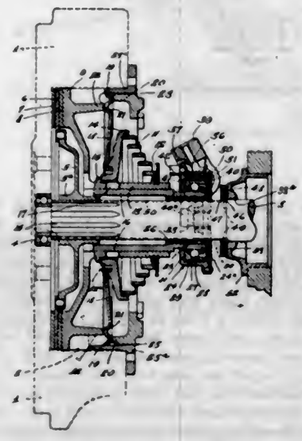
1. A stream motor comprising a cylindrical tunnel, a shaft extending longitudinally of its center, a second shaft located above said tunnel and parallel to the first mentioned shaft, driving means connecting both of said shafts whereby the same will rotate simultaneously, means carried by the first mentioned shaft and adapted to co-operate with water passing through said tunnel for placing said shaft in operation, means for regulating the passage of water through said tunnel whereby the speed of said motor can be controlled, and a by-pass located to one side of said tunnel through which excess water can be diverted past said tunnel, said by-pass being automatically opened and closed by the head of water at the in-take end of said tunnel.

1,684,470. SIGN. GEORGE P. BUTLER, Boston, Mass. Filed Oct. 1, 1926. Serial No. 139,002. 4 Claims. (Cl. 40—145.)



1. A sign comprising, in combination, a hollow post; two sign boards arranged one above the other at the top of the post, the lower board having on its top a vertically rising non-round head and on its bottom a depending cylindrical sleeve adapted to telescope the top of the post, and the upper board having on its bottom a depending socket, internally formed with many equal sides to receive the non-round head of the lower board; means securing said head and socket together; means for locking the lower board to the post and a stiffening and strengthening rod with a plug at its lower end housing said locking means; the said rod extending thence axially through the lower sign board and having connection with the said non-round head, whereby stresses upon said head are transmitted to the post through the said rod, plug and locking means.

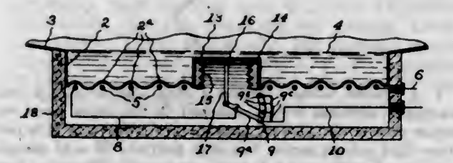
1,684,471. CLUTCH. GEORGE C. CARHART, Syracuse, N. Y., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Nov. 14, 1923. Serial No. 675,066. 9 Claims. (Cl. 192—110.)



1. In a clutch, the combination of a shaft, a member shiftable axially of the shaft, means for shifting said member, including a release bearing concentric with the shaft,

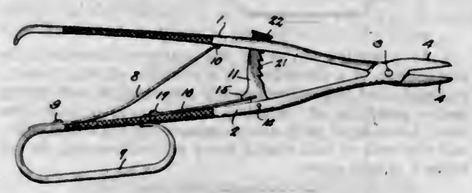
and an actuator, an oil casing enclosing said bearing, and supported thereby, the actuator comprising a yoke embracing the bearing and the casing, and having arms thrusting against the casing on diametrically opposite sides of the shaft, and the casing having fulcrum points thrusting against the bearing and located midway between the points of engagement of the yoke arms with the casing.

1,684,472. ELECTRIC HEATER. HARRY G. CATHCART, Cleveland, Ohio. Filed Mar. 23, 1925. Serial No. 17,550. 3 Claims. (Cl. 219—38.)



2. A heater of the character described, including a radiator casing, a quantity of volatile fluid therein, an electric resistance element for heating the fluid to vaporize the same, a chamber within the radiator and having an enclosing wall adapted to be moved by internal pressure within the chamber, fluid within the chamber which is slightly less volatile than the volatile fluid previously mentioned, a rheostat interposed in the circuit of the resistance element, and means actuated by the movements of the said movable wall of the chamber for operating the rheostat to control the current flowing through the resistance element.

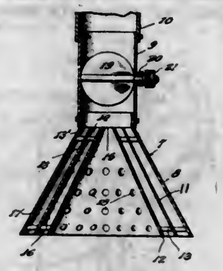
1,684,473. NEEDLE HOLDER. ULYSSES S. CHAPMAN, Carthage, Mo. Filed Jan. 2, 1926. Serial No. 79,009. 1 Claim. (Cl. 128—340.)



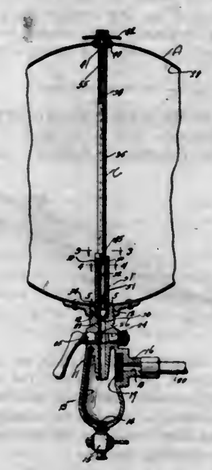
A tool of the class described, comprising pivotally connected first and second levers having jaws, the first lever being provided with a transverse opening, a ratchet latch extended through the opening and engageable with the first lever, a first spring engaging the latch to hold it in working position, a second spring engaging the first lever and tending to open the jaws, means for mounting the latch for swinging movement, means for securing the first spring, and means for securing the second spring; the tool being characterized by the fact that all three of the means specified are mounted on the second lever, thereby confining the hand work, in manufacture and assembly, to that lever; and the tool being further characterized by a button on the outer end of the latch and of larger area than the opening, whereby neither the direct thrust of the second spring against the first lever, nor the reaction of the first spring against the second lever, can swing the first lever clear of the latch.

1,684,474. COOLING AND VENTILATING DEVICE. FRANK L. CHATHAM, Orleans, Ind. Filed July 12, 1927. Serial No. 205,220. 1 Claim. (Cl. 98—40.)

The combination with a cabinet, of a branch pipe having communication therewith, distributors in communication with the branch pipe and including conical outer casings, conical deflectors mounted within the casing and spaced therefrom and from each other, the innermost deflector having a plurality of perforations formed therein, said casings and deflectors having open upper and lower ends, the openings in the upper ends being in communication with the branch pipe to permit air therefrom to pass between the casings and deflectors and through the perforations into the innermost deflector, and means for controlling the flow of air into the distributors.

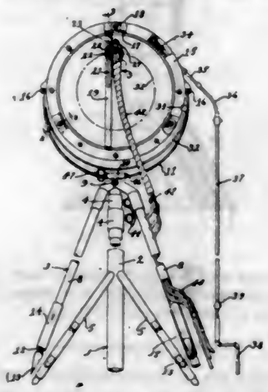


1,684,475. FUEL-TANK ATTACHMENT. JOHN H. COLLIER and EARL D. CHISUM, Altus, Okla.; said Chisum assignor to said Collier. Filed Feb. 21, 1927. Serial No. 169,917. 2 Claims. (Cl. 158—46.5.)



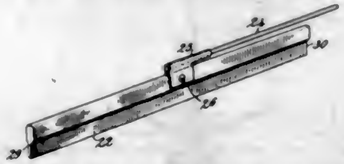
1. In a fuel tank attachment of the class described a tank having a compartment therein, the tank having an outlet opening in the bottom thereof, a tube extending from the outlet opening upwardly into the tank compartment having spaced upper and lower drain ports transversely therein, a rotatable tube bearing at its lower end in said first mentioned tube and extending vertically across the tank compartment and at the top of the tank compartment extending therethrough, the said last mentioned tube having upper and lower ports adapted to alternately register with the ports of the first mentioned tube, means to limit the amplitude of movement of the second mentioned tube with respect to the first mentioned tube, an air pressure check valve detachably supported in the top of the second mentioned tube, a detachable cap exteriorly of the tank for the second mentioned tube, a drain trap connected with the tank having a compartment therein below the tank and a passageway extending between the outlet opening of the tank and the trap compartment, a valve in said trap for closing said passageway, and an outlet conduit connected with said trap.

1,684,476. ROTARY ACETYLENE TORCH. FRANK J. CULLEN, Culver City, PETER E. BINDER, El Segundo, and CLARENCE C. HARSHMAN, Los Angeles, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Dec. 27, 1926. Serial No. 157,223. 15 Claims. (Cl. 266—23.)



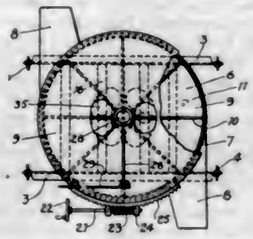
1. In a device for cutting an opening in a tank or the like, the combination of a supporting frame having means enabling the same to be set up near the wall of the tank, a guide frame carried by the supporting frame, a torch carried by the guide frame, and means for rotating the torch so as to move the same in a circle adjacent the face of the tank.

1,684,477. SQUEEGEE AND THE MOUNTING THEREOF. JOSEPH DEMAND, New York, N. Y. Filed Nov. 20, 1926. Serial No. 149,568. 3 Claims. (Cl. 15—255.)



1. A squeegee comprising a flexible metal bar of non-circular cross-sectional form, a protective sheath of relatively soft moisture-proof material enveloping said bar and covering all surfaces thereof including its ends, and a flexible lip extending from one of the margins of said sheath to form a cleaning element.

1,684,478. GRAIN-STOWAGE DEVICE. JOHN CROMIE DILL, Vancouver, British Columbia, Canada. Filed Apr. 7, 1926, Serial No. 100,388, and in Canada May 19, 1925. 3 Claims. (Cl. 198—128.)



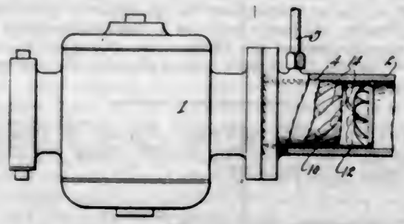
1. A grain stowing device comprising a distributor head having a circumferential outlet and a top inlet, a fan rotatable within said head and provided with a plurality of vanes between which the grain is delivered through the inlet, and means for changing the position of the inlet to vary the setting thereof with respect to the vanes of the fan.

1,684,479. SHINGLE HOLDER. CLARENCE R. ECKERT, Highwood, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed June 28, 1924. Serial No. 722,896. 9 Claims. (Cl. 108—8.)



1. A flexible shingle having a strip like holder of substantially uniform width attached to its edges near one corner of said shingle, said holder being provided with portions that extend across the edge portions of said shingle and also being provided with outwardly extending portions adapted to project under the edges of other shingles.

1,684,480. MIXING DEVICE FOR INTERNAL-COMBUSTION ENGINES. MARSHALL W. EVANS, Detroit, Mich. Filed Feb. 21, 1927. Serial No. 169,796. 5 Claims. (Cl. 48—180.)



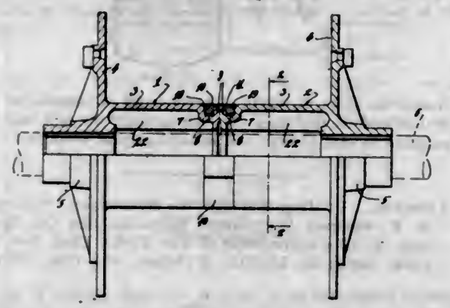
1. In a mixing device of the character described, the combination of a sleeve having a plurality of slots therein, a plurality of baffles transversely arranged in said sleeve, and a plurality of radiating blades on each baffle, the outer portions of said blades passing through said slots, and the ends of said blades being secured against the periphery of said sleeve.

1,684,481. BRUSH. LEO F. EXLEY, Johnson City, N. Y. Filed Dec. 16, 1926. Serial No. 155,314. 5 Claims. (Cl. 15—198.)



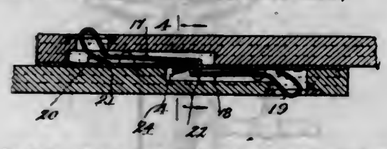
1. A brush comprising a rotatable shank, a carrier connected therewith, extending therefrom and bodily rotating therewith, a combined coupling and holding member connected to, extended therefrom and bodily rotating with the carrier, said member having a tapered outer part, a brush element supported by said member intermediate the ends thereof and coupled by said tapered part free of the carrier to bodily rotate with the member, a centering spindle slidably mounted in the shank, carrier and element and normally projecting beyond the brush element and a controlling spring within the shank for said spindle.

1,684,482. DRAW-WORKS DRUM AND METHOD OF LOCKING THE DRUMS AND FLANGE SECTIONS THEREOF. DAVID S. FAULKNER and EDWARD TIMBS, Los Angeles, Calif., assignors to The National Supply Company of Delaware, New York, N. Y., a Corporation of Delaware. Filed Oct. 19, 1927. Serial No. 227,136. 6 Claims. (Cl. 242—117.)



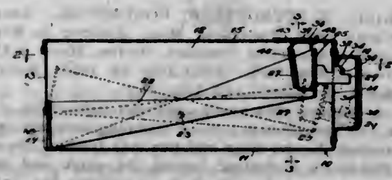
1. A rotary drawbacks drum having two drum and flange sections having annular flanges at their adjacent ends, a split ring mounted between said sections with the annular flanges extending into a channel formed in said split ring, and means for securing the split ring to said drum and flange sections at the surface of the drum.

1,684,483. JOINT FOR EXTENSION RULES. HERMAN GASSTROM, Mount Vernon, N. Y. Filed Apr. 1, 1927. Serial No. 180,200. 6 Claims. (Cl. 33—161.)



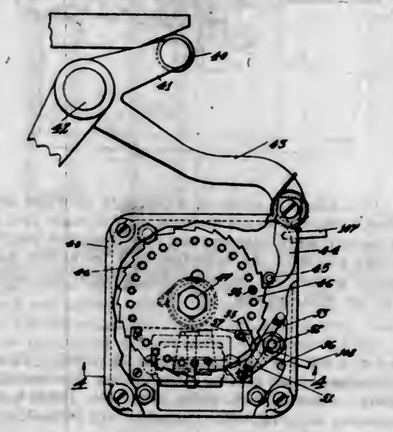
1. In an extension rule, a plurality of slidably held rule lengths in combination with cooperating joint sections secured on said lengths, said sections having plates, means for interlocking said sections in positive position including abutting edges extending across said section plates for limiting the relative positions of said sections in their locked position.

1,684,484. ANIMAL TRAP. AUGUSTINE H. GILKEY, Chicago, Ill. Filed Sept. 22, 1926. Serial No. 137,009. 10 Claims. (Cl. 43—61.)



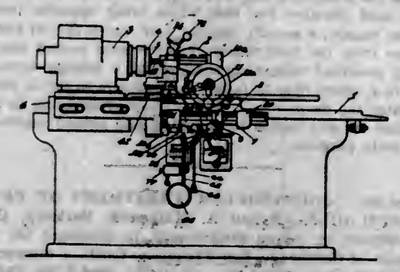
1. In an animal trap, the combination with an enclosure having an opening therein through which animals may enter the enclosure, of a closure member for said opening mounted to swing around a pivotal axis spaced from the opening, and bait holding means disposed on the other side of said pivotal axis and constrained to move with said closure means, said closure means being of sufficient weight to remain in its closed position when less than a predetermined weight of bait is held by the bait holding means.

1,684,485. GRINDING MACHINE. WALDO J. GUILD and FREDERICK H. GRIMSHAW, Worcester, Mass., assignors to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 26, 1926, Serial No. 124,954. Renewed Apr. 3, 1928. 15 Claims. (Cl. 125—11.)



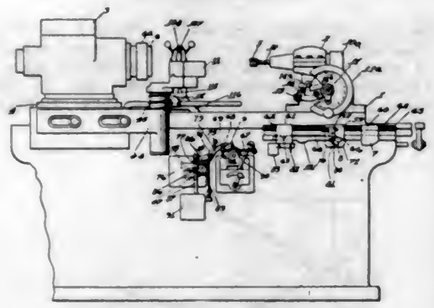
1. In a grinding machine, the combination with a grinding wheel, work holding means, and means for reciprocating one of said parts relative to the other, of a wheel dressing device, means for extending the amplitude of said reciprocation to dress said wheel by said dressing device, and means causing said dressing device to operate only periodically, upon the completion of the grinding of a predetermined plurality of work pieces by the machine.

1,684,486. GRINDING MACHINE. WALDO J. GUILD, Worcester, Mass., and LEWIS CLIFFORD KENYON, New York, N. Y., assignors to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 7, 1926, Serial No. 79,849. Renewed Apr. 3, 1928. 14 Claims. (Cl. 125—11.)



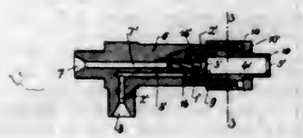
1. In an internal grinding machine, the combination with a grinding wheel, work holding means, and means for reciprocating one of said parts relative to the other, of a wheel dressing device, and automatic means for extending the amplitude of said reciprocation a plurality of times during the operation on a single work-piece, whereby to dress said wheel a plurality of times during said operation,

1,684,487. GRINDING MACHINE. RICHARD A. HEALD, CARLE J. HIGHBERG, and EDWARD M. TAYLOR, Worcester, Mass., assignors to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 11, 1926, Serial No. 108,379. Renewed Apr. 3, 1928. 12 Claims. (Cl. 125—11.)



1. In a grinding machine, a plurality of wheel dressing devices, hydraulic means automatically brought into action to severally move said devices into operative position at different stages in the reduction of a workpiece, and mechanical means also automatically brought into action to reposition said devices.

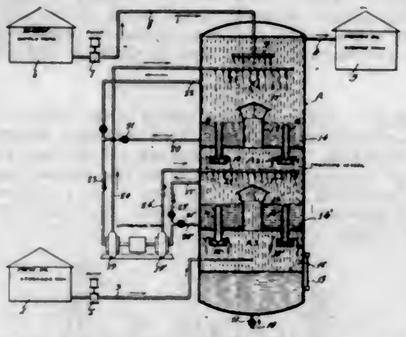
1,684,488. ATOMIZER FOR LIQUIDS. FRIEDRICH HABUSSER and RUDOLF BESTEHORN, Dortmund, Germany. Filed Sept. 9, 1924, Serial No. 736,713, and in Germany Sept. 13, 1923. 1 Claim. (Cl. 299—115.)



A device for atomizing heavy oils comprising a body portion having a gas inlet and an oil inlet; a nozzle in said body portion and arranged in said gas inlet, said nozzle having helical grooves therein to impart a rotary motion to the gas; a mixing chamber for the oil and gas in the body portion and provided with an opening having sharp edges for atomizing the drops of oil, said nozzle extending into said chamber and said edges being opposite the end of the nozzle; a second chamber into which the oil and gas issues from the first-named chamber, said second chamber being provided with a member having a passage terminating in a sharp edge to form an opening in order to further atomize the drops of oil, and said openings being in axial alignment; and means for securing said second chamber in the body portion.

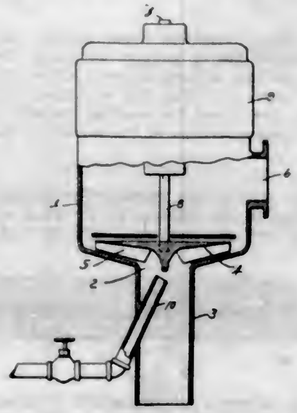
1,684,489. COUNTERFLOW TREATMENT OF PETROLEUM OILS. RALPH A. HALLORAN, Berkeley, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Dec. 19, 1923. Serial No. 681,472. 8 Claims. (Cl. 196—45.)

8. A continuous process of treating petroleum oils and with a liquid reagent substantially immiscible therewith comprising continuously supplying fresh oil into a treating vessel and continuously removing treated oil from such treating vessel, simultaneously continuously supplying fresh reagents to the treating vessel so as to cause the reagents to flow in a direction opposed to the flow of oil being treated, accumulating partially spent reagent within a portion of said treater and circulating said accumulated partially spent reagent counter-current to the oil being



treated so as to maintain a larger ratio of reagent to oil within said treater than the ratio of fresh reagent and oil supplied to said treater and removing spent reagent.

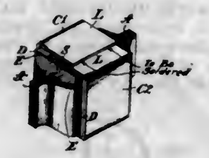
1,684,490. PUMP. NELSON H. HENDERSON, Syracuse, N. Y., assignor to Syracuse Industrial Gas Co., Syracuse, N. Y., a Corporation of New York. Filed Nov. 21, 1924. Serial No. 751,273. 6 Claims. (Cl. 103—113.)



1. In a centrifugal pump, a case, a rotor in the case, an unobstructed open inlet pipe arranged coaxially with the rotor and extending downwardly from the case, the case having an outlet above the rotor, a pipe arranged to discharge liquid upon the inlet side of the rotor directly against the rotor for the purpose of evacuating air from the unobstructed inlet pipe and thereby raising the water therein until it reaches the rotor and primes the pump.

1,684,491. ELECTROSTATIC CONDENSER. REGINALD HUNTER HOYT, Roslindale, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed June 14, 1926. Serial No. 115,863. 6 Claims. (Cl. 175—41.)

1. A clamped sheet-stack condenser comprising a foil-stack and two U-shaped metal clamping members extending around the end faces and two side faces of the stack, the foil-sheets projecting beyond the stack and beyond the clamping members from the remaining two opposite side faces of the stack; the intermediate portions of the U-shaped clamping members engaging the end faces of the stack; the end legs of the clamping members telescoping one another at those opposite side faces of the stack from which the foil-sheets do not project; and the ends of the outside end legs of the clamping members being soldered to the surfaces of the inside end legs; the intermediate



portions of the U-shaped clamping members being spaced apart in positions holding the stack under end-to-end compression, and said soldering holding said intermediate portions in their clamping relations to the end faces of the stack.

1,684,492. TONE POST. CHRISTIAN HULTGREN, Parish of Svinhult, Sweden. Filed Jan. 27, 1927, Serial No. 163,960, and in Sweden Feb. 18, 1926. 3 Claims. (Cl. 84—277.)



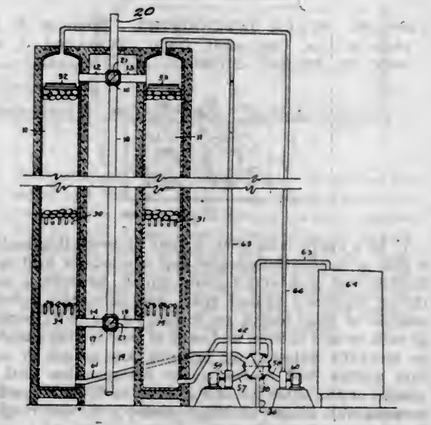
1. A tubular tone post adapted to be interposed between the front and rear walls of a violin and having a single notch provided at its upper edge, turned toward the "f" hole of said violin.

1,684,493. BRACKET CARRIER FOR WINDSHIELD DEFLECTORS. BERN JASSEN and HARRY JASSEN, Brooklyn, N. Y. Filed July 31, 1924. Serial No. 729,250. 8 Claims. (Cl. 296—84.)



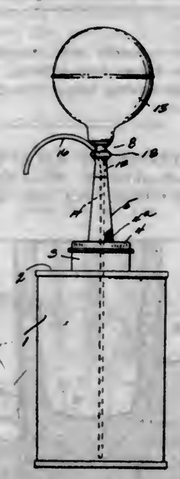
2. In a device of the character described, a side wind deflector, a pair of clamps adapted to engage opposite edges of the deflector, a cushion chamber fixedly connected with one of the clamp members, a plunger carried by the remaining clamp member slidably received within the cushion chamber, and resilient means within said chamber to draw the plunger into said chamber and hold the clamp members against the deflector.

1,684,494. APPARATUS FOR MAKING BISULPHITE LIQUOR. JACOB DARRE JENSSEN, New York, N. Y., assignor to G. D. Jenssen Company, New York, N. Y. Filed May 4, 1927, Serial No. 188,737, and in Canada Sept. 23, 1926. 7 Claims. (Cl. 23—260.)



1. In an apparatus for making bisulphite liquor, a circulation system comprising a plurality of towers having gas inlets and outlets and water and liquor inlets and outlets and piping from all of said inlets and outlets and from the water supply and to the atmosphere, four-way valves introduced in the gas connections having rotary deflecting plates adapted to reverse the direction of the circulation and indicators therefrom and a six-way valve having rotary deflecting plates and indicators therefrom and introduced in the liquid connections.

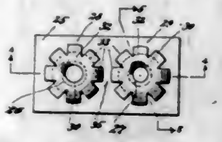
1,684,495. DISPENSING CONTAINER. ANDREW EDWARD KUNZL, Chicago, Ill., assignor to Churchill's, Incorporated, Chicago, Ill. Filed Feb. 16, 1928. Serial No. 254,731. 1 Claim. (Cl. 221—76.)



A dispensing container having a nozzle, said nozzle being provided with one element of a detachable connection at its mouth, a dispensing attachment having a hollow shank provided with an element of a detachable connection engageable with the said element on the nozzle, a thin walled tube in the shank extending through the nozzle

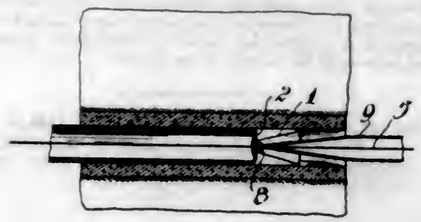
to a point adjacent the bottom of the container, said tube having a bent portion extending without the shank, a compressible bulb, and the upper end of said shank having an integral part to which said bulb is directly attached.

1,684,496. SPARK INTENSIFIER. WILLIAM F. LAUTENSCHLAGER, Cincinnati, Ohio. Filed Aug. 1, 1921. Serial No. 488,942. 2 Claims. (Cl. 175—183.)



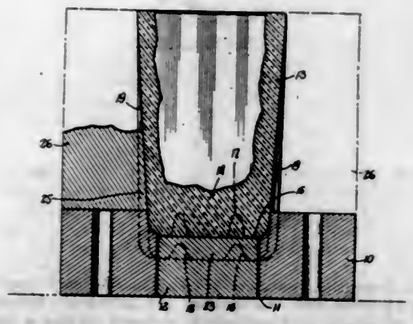
1. In a spark intensifier, a body of insulating material, a pair of duplicate rotatable and frictionally held eyelets therein and each eyelet being scored, whereby a plurality of uniformly spaced apart and outwardly extending tongues of equal length are formed on the outer periphery of each of said eyelets, and each of said eyelets adapted to be manually adjusted for bringing any tongue of one of said eyelets into spaced apart juxtaposition with any tongue of the other of said eyelets to form a spark gap between any tongue of either eyelet with any tongue of the juxtaposed eyelet.

1,684,497. COLLAPSIBLE CONDUIT CORE. HENRY E. LINDAS, Colorado Springs, Colo. Filed Apr. 7, 1926. Serial No. 100,267. 7 Claims. (Cl. 25—128.)



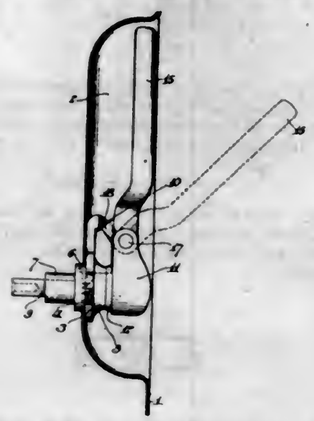
1. A collapsible conduit core, comprising inner and outer casings, the inner casing being inflatable and expansible, the outer casing being invertible and comparatively non-expansible.

1,684,498. MOLDED-GLASS RECEPTACLE. JOHN E. MARSDEN, Philadelphia, Pa. Filed Apr. 7, 1927. Serial No. 181,642. 3 Claims. (Cl. 206—2.)



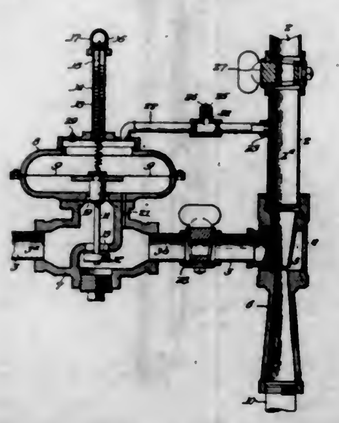
1. An article of molded glassware having an inner vertical partition therein leading upward from the bottom to the level of the top, and having a channel in the bottom surface of the bottom portion of the receptacle in the plane of said partition, whereby the mass of glassware at the bottom is accordingly reduced and distributed as to thickness.

1,684,499. LATCH-MECHANISM HANDLE. WILLIAM JOHN MAYER, Roxborough, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 13, 1927. Serial No. 160,859. 5 Claims. (Cl. 292—347.)



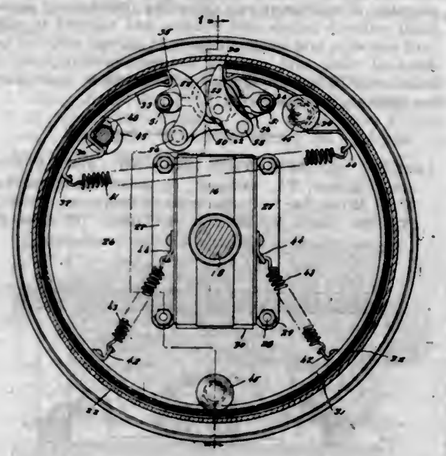
1. In a latch actuating mechanism, an escutcheon plate having an inclined surface thereon, a spindle oscillatably journalled in said escutcheon, a two part handle connected to said spindle, and means on one of said handle parts coacting with the said inclined surface to cause the part to move toward and away from the escutcheon during actuation of the latch bolt by the handle.

1,684,500. APPARATUS FOR PROPORTIONATELY MIXING FLUIDS. GARNET W. MCKEE, Rockford, Ill. Filed Feb. 2, 1924. Serial No. 690,333. 6 Claims. (Cl. 48—184.)



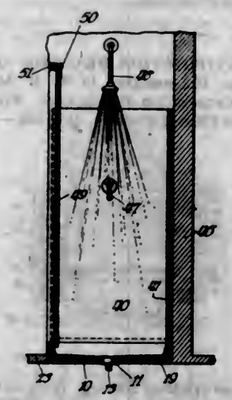
1. In an apparatus of the character described, the combination of an air supply pipe, a fuel supply pipe, a diaphragm governor interposed in said fuel supply pipe, a connection between said governor and said air supply pipe, and means comprising the combination of a restriction and an air vent open to the atmosphere for regulating the delivery of pressure from said air supply pipe to the governor.

1,684,501. BRAKE. EDWARD C. NEWCOMB, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Sept. 15, 1927. Serial No. 219,761. 8 Claims. (Cl. 188—78.)



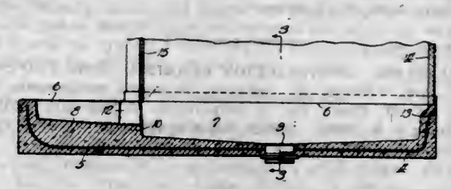
1. A brake mechanism comprising a rotatable drum, a braking element movable to engage said drum, and actuating means for said braking element comprising a pair of levers engageable therewith, a rotatable member mounted on one of said levers engaging a face of the other of said levers, and means for operating one of said levers.

1,684,502. SHOWER RECEPTOR. GUSTAF ALBIN NILSON, Glencoe, Ill. Filed July 19, 1926. Serial No. 123,374. 12 Claims. (Cl. 4—145.)



1. A self-contained unitary base plate structure for shower baths and the like comprising a pan shaped element made of cement-like material having a smoothed exposed face and having a drain opening, and having its floor portion sloping toward said drain opening, and having upwardly extending side portions adapted to accommodate upwardly extending wall portions thereon, said side portions having a surrounding flange extending upwardly outside said wall portions to direct the drippings therefrom inwardly along said side portions.

1,684,503. SHOWER RECEPTOR. GUSTAF ALBIN NILSON, Chicago, Ill. Filed Nov. 4, 1926. Serial No. 146,260. 7 Claims. (Cl. 4—145.)



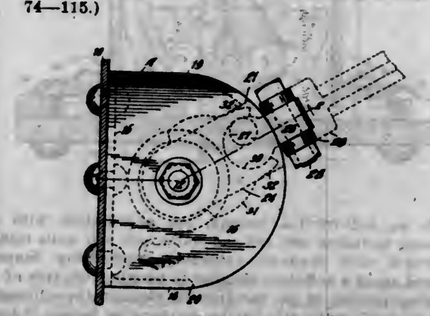
1. A self-contained unitary base-plate structure for shower baths and the like comprising a pan-shaped element having a drain opening and having its floor portion sloping toward said drain opening, said element having upwardly-extending side portions, and a pair of oppositely disposed upwardly-extending portions projecting inwardly from said side portions, the floor portion on one side of said inwardly-projecting portions being raised above the floor portion on the other side thereof.

1,684,504. SUBMERGED-CHANNEL INDUCTION FURNACE. EDWIN F. NORTHRUP, Princeton, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 1, 1925. Serial No. 47,593. 14 Claims. (Cl. 266—1.5.)



1. In an electric induction furnace of the submerged resistor type, a channel resistor unsymmetrical on opposite sides of the secondary having two end connections with the furnace staggered laterally of the winding, a transformer core threading the resistor and a transformer winding upon the core, the current in which exerts different pressures upon the two branches of the resistor at the same heights thereof and causes flow by reason of the lack of symmetry of the secondary.

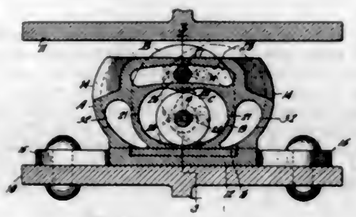
1,684,505. HAND BRAKE FOR RAILWAY CARS. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Mar. 6, 1922. Serial No. 541,314. 4 Claims. (Cl. 74—115.)



4. In a hand brake for railway cars, the combination with a brake staff; of means for rotating said staff in a direction to tighten the brakes, said means including a clutch

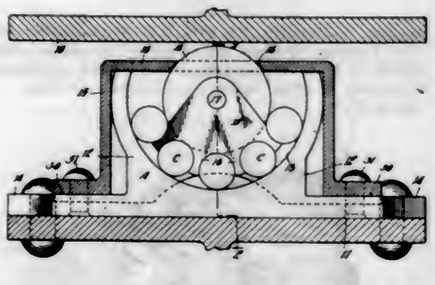
element and an operating lever mounted for swinging movement about the axis of said staff, said lever including a pivoted arm portion provided with an eccentric head coacting with said clutch element.

1,684,506. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed July 5, 1923. Serial No. 649,423. 6 Claims. (Cl. 308—226.)



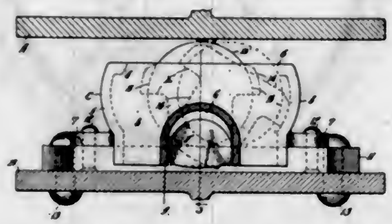
6. In an anti-friction bearing, the combination with a retainer; of an anti-friction element disposed in said retainer, said element having fixed spaced diametrically disposed eccentric projections at its end, said retainer being provided with a separate and independent guide slot for each of said projections, whereby one of said projections is prevented from entering the guide slot of the other, the opposite walls of each of said guide slots being spaced apart to permit a minimum of operative clearance for said projections, and said guide slots being curved in a path common with the path of movement of said projections during the movement of said anti-friction element to either side of central position, whereby said element is prevented from bodily shifting with reference to said retainer during rotation of said element, and maintained in assembled relation with said retainer.

1,684,507. ANTIFRICTION ROLLER BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Jan. 14, 1924. Serial No. 686,008. 1 Claim. (Cl. 308—226.)



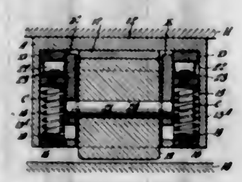
In an anti-friction bearing, the combination with a housing including side and end walls, said end walls being provided with inwardly extending overhanging flanges spaced apart a sufficient distance to permit projection of a bearing portion of an anti-friction element therethrough and said side walls also having overhanging flanges of less extent than the flanges on said end walls, said housing being open at the bottom and provided with outwardly extending lugs at each end; of a bearing member to which said lugs are adapted to be secured, said member being provided with a curved bearing surface projecting upwardly into said housing to provide a semi-circular raceway; a main anti-friction roller projecting outwardly from said housing between the flanges thereof, said roller being of a greater size than the opening between said flanges; and a plurality of smaller rollers extending transversely substantially entirely across said housing and adapted to roll on said raceway, said smaller rollers, in normal position, being disposed along said raceway circumferentially about said main roller to support the latter in relatively fixed position for rotation about its axis.

1,684,508. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Dec. 27, 1924. Serial No. 758,346. 4 Claims. (Cl. 308—226.)



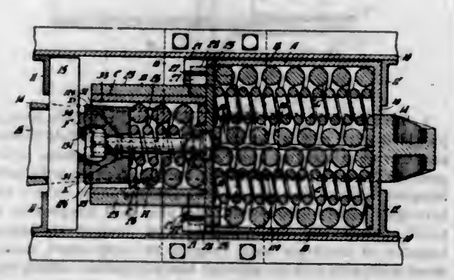
4. In an anti-friction bearing, the combination with a mounting adapted to be applied to a bolster or the like and having a bearing surface associated therewith; of a plain cylindrical roller adapted to move back and forth on said bearing surface; guide means associated with said mounting and being vertically arranged; an independent retaining device having counterweighted portions mounted in said guides and movably retained thereby, said device being disposed in supporting contact with the opposite sides of the curved surface of the roller above the center thereof to maintain the said roller in assembled relation with said mounting, said retaining device operating to center said roller when free from load.

1,684,509. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 5, 1926. Serial No. 86,159. 2 Claims. (Cl. 308—226.)



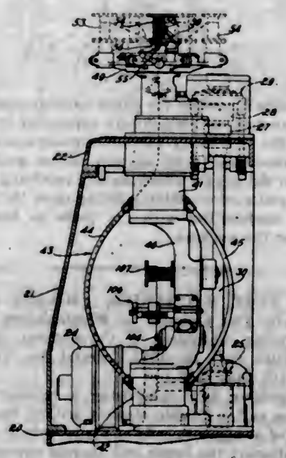
1. In an anti-friction bearing, the combination with a housing having side and end walls, and a bearing surface, the side walls of said housing being provided with vertically arranged guideways extending from points adjacent the free extremities of each of said side walls inwardly to and terminating substantially at said bearing surface; an anti-friction element disposed within said housing and adapted to roll back and forth on said bearing surface, said element being of greater extent than the extent of said side walls, so as to project beyond the free extremities of the latter when in engagement with said bearing surface; followers slidably disposed in said guideways, a coil spring disposed in each of said guideways, and links connected to said anti-friction element and to the said followers, whereby movement of said anti-friction element to either side of central position flexes said springs which operate to return said element to central position, said followers, springs, and links being interposed between the side walls of said housing and the adjacent ends of said anti-friction element.

1,684,510. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,344. 10 Claims. (Cl. 213—24.)



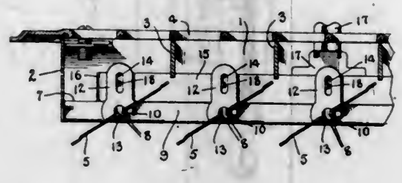
1. In a friction shock absorbing mechanism, the combination with a spring cage; of a friction shell telescoped within the spring cage, said shell and cage being relatively movable; removable means for lining said shell, said removable means being anchored to the spring cage, said anchorage providing for limited longitudinal movement between the shell and cage; friction means cooperating with the liner means of the shell; and spring resistance means opposing movement of the shell and friction means inwardly of the mechanism.

1,684,511. STRAND-TWISTING APPARATUS. THOMAS EDWARD O'DONNELL, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1926. Serial No. 83,993. 6 Claims. (Cl. 117—49.)



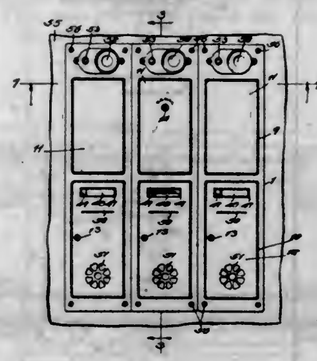
1. In strand twisting apparatus, strand twisting means, strand take-up means, a rotatable member interposed therebetween for rotating a portion of the strand bodily around an axis of rotation, means interposed between the member and the twisting means for advancing the strand through the twisting means, and means operated independently of said take-up means interposed between the rotatable member and the take-up means and for advancing the strand through the rotatable member.

1,684,512. FURNACE REGISTER. THOMAS OLINGER, Holland, Mich., assignor to Federal Manufacturing Company, Holland, Mich., a Corporation of Michigan. Filed July 20, 1925. Serial No. 44,057. 7 Claims. (Cl. 98—110.)



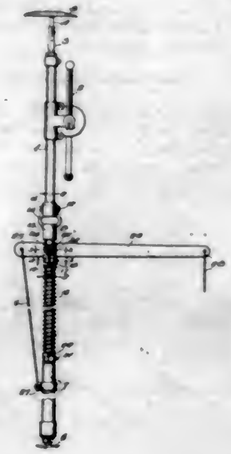
1. A furnace register comprising, a sheet metal frame, pairs of lugs stamped from the metal of the frame and projecting therefrom, and shutters having openings each to receive one of said pairs of lugs and to be pivotally mounted thereon.

1,684,513. MAIL BOX. THOMAS L. PARKER, Chicago, Ill., assignor to The Standard Electric Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 4, 1924. Serial No. 741,700. 8 Claims. (Cl. 232—25.)



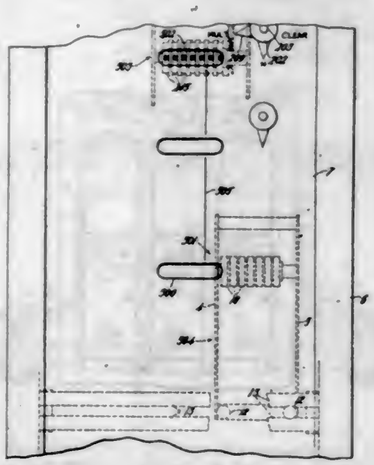
5. In a device of the kind described and in combination, a series of receptacles, each of which is provided with a door, a key-controlled lock associated with one of said doors, a bar operatively connected to said lock and controlling the opening and closing of all of said doors in unison, and additional locking means for said doors also acting in unison and controlled by said lock.

1,684,514. HAMMER. JOHN H. PHILLIPS, Chicago, Ill. Filed Jan. 12, 1924. Serial No. 685,885. 7 Claims. (Cl. 255—45.)



1. The combination with a hammer of the kind described, of a feeding device quickly detachable from said hammer, said feeding device comprising extensible cooperating parts, a spring arranged to normally move said parts to extend the same, and means operable by a flexible connection remotely from said device for controlling the operation of said spring.

1,684,515. COMPUTING MACHINE. HENRY L. PITMAN, Westfield, N. J., assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 26, 1922. Serial No. 556,661. 17 Claims. (Cl. 235—60.)



1. In a computing machine, having a plurality of accumulating computing units arranged in denominational order, and carrying-over mechanism for each unit to carry one digit at every tenth step thereof to the computing unit of next higher order, the combination of a non-accumulating computing unit adjacent to and below the accumulating computing unit of lowest order, said non-accumulating computing unit comprising means to carry one digit to the accumulating computing unit of lowest order when the non-accumulating computing unit is actuated through less than ten steps.

1,684,516. COUPLING FOR CONDUITS. FINIS E. ROACH, Chicago, Ill. Filed July 20, 1927. Serial No. 207,198. 14 Claims. (Cl. 285—174.)



1. In a coupling for conduit sections, a socket member provided with means for attachment to a conduit section, and having a locking groove on its inner surface, a plug member provided with resilient tongues formed with beads adapted to snap into said locking groove, and a rubber tube arranged within said socket and plug and adapted to expand against the walls thereof and against the spring tongues to maintain said tongues in interlocked engagement with said locking grooves and to provide a fluid tight connection between the socket and plug members.

1,684,517. PAPER-NAPKIN HOLDER. HENRY L. SAMSON, New York, N. Y. Filed Mar. 14, 1927. Serial No. 175,172. 2 Claims. (Cl. 312—60.)



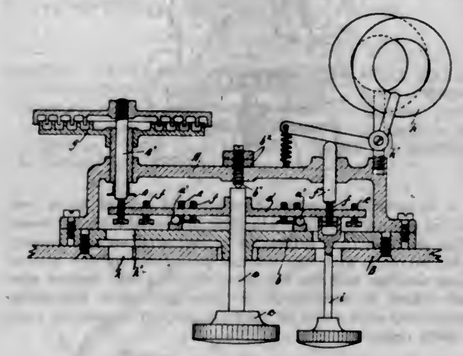
1. A portable dispenser for paper napkins comprising an elevated slotted plate horizontally supported by end standards with the slot freely accessible underneath the plate from both front and rear, upright corner guides on the plate open at the top for receiving and retaining a quantity of napkins, and a cover slidably fitting upon the guides and adapted in conjunction with the plate to form a tight enclosure for the napkins.

1,684,518. FUSE MECHANISM. MAURITS J. SANDIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 25, 1921. Serial No. 510,280. 20 Claims. (Cl. 200—127.)

1. An expulsion fuse comprising a tubular receptacle closed at one end, a fusible element within the receptacle and supported at opposite ends of the receptacle and having a portion adjacent the lower end thereof extending transversely across the mouth of the tube and in the path of arc gases discharged from the receptacle whereby the end of the fuse adjacent the open end of the receptacle is fused by arc gases discharged from the receptacle, a tubular shield surrounding the fusible member and supported within the receptacle by the fusible member and means for causing the fusible element to rupture at a predetermined point within the receptacle in response to a predetermined current.

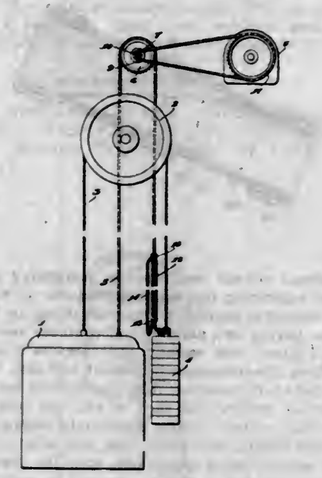


1,684,519. APPARATUS FOR AUTOMATIC REGULATION OF DIFFERENT WAVE LENGTHS FOR WIRELESS RECEIVERS. FRIEDRICH WILHELM MAXIMILIAN LUDWIG SCHERBARTH, Altona-Bahrenfeld, Germany. Filed Nov. 2, 1925, Serial No. 66,351, and in Germany Nov. 21, 1924. 2 Claims. (Cl. 250—40.)



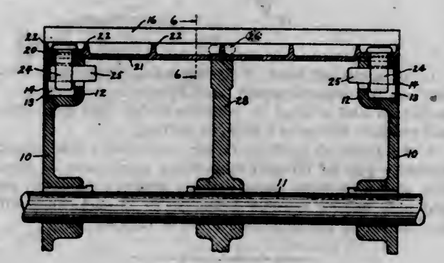
1. Apparatus for automatic simultaneous tuning of a plurality of tuning devices, comprising a rotatable dial, a plurality of circular series of abutments mounted on said dial, the number of said series corresponding to the number of tuning units, said abutments being independently adjustable in a direction perpendicular to the plane of rotation of said dial, each series forming a circular cam track of variable contour, each adjusted abutment in one series corresponding to a correlatively adjusted abutment in another series, and a plurality of rods connecting said tuning devices with the respective series of abutments, adapted to ride the said cam tracks and positioned so as to contact simultaneously with the correlated adjusted abutments.

1,684,520. CHAIN TRANSMISSION FOR ELEVATOR DEVICES. OSCAR F. SHEPARD, Cincinnati, Ohio. Filed Nov. 5, 1926. Serial No. 146,514. 6 Claims. (Cl. 187—29.)



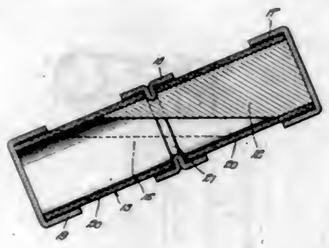
5. In combination with an elevator car and elevator device including a sprocket wheel, operated in relation with the position of the car in the hatchway and in transmission connection with the car, the car driving the elevator device and the elevator device controlling the operation of the car, of a sprocket chain connecting with the car and engaging with the sprocket wheel of said elevator device providing a positive transmission for said elevator device and in relation to the position of the car in the hatchway and by which the relation is definitely maintained.

1,684,521. ROLL FOR BEATING ENGINES. HERBERT R. SIMONDS, Dayton, Ohio, assignor to The A. A. Simonds-Dayton Company, Dayton, Ohio, a Corporation of Ohio. Filed June 12, 1924. Serial No. 719,494. 20 Claims. (Cl. 92—22.)



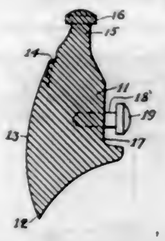
1. A beater roll comprising a shaft, roll heads mounted thereon, fly bars extending from one head to the other, and staves closing the spaces between the bars in the zone adjacent to the inner edges of the bars, and carrying outwardly projecting struts which extend annularly from one bar to the next, giving additional lateral support to the bars.

1,684,522. THERMAL-CUT-OUT CONSTRUCTION. JOHN F. SLOAN, Peoria, Ill. Filed Nov. 6, 1925. Serial No. 67,205. 1 Claim. (Cl. 200—124.)



A thermal cut-out construction comprising a pair of clips for embracing the annular contacts of a cartridge fuse, a reversible cartridge fuse comprising an insulating container having two annular end contacts and an intermediate contact, said annular end contacts being equally spaced from the intermediate contact and said clips being spaced apart a distance equal to the distance between said intermediate contact and each of the end contacts, said annular end contacts being alternately engageable with one of said contact embracing clips, and said intermediate annular contact being engageable with the other contact embracing clip and a fusible element in said container which when fused breaks electrical connection between the intermediate contact and one end contact and makes electrical connection between the intermediate contact and the other end contact.

1,684,523. ARTIFICIAL TOOTH. LAKE H. SPRINKLE, Brooklyn, N. Y. Filed Apr. 16, 1927. Serial No. 184,330. 4 Claims. (Cl. 32—9.)

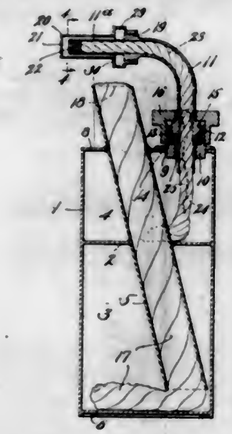


1. An artificial tooth or facing having thereon a root, which is integral therewith, said root being formed into a projection and a head on said projection, for connecting said tooth or facing to a plate or backing.

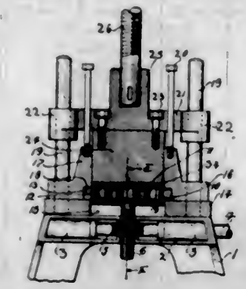
2. An artificial tooth or facing having on a lingual side thereof a pair of circular cylindrical pins, made of porcelain, said pins being comparatively large in diameter, and said pins having thereon heads made integral therewith for connecting the same to a plate or backing.

1,684,524. TORCH. STANLEY STANCZYK, Lynn, Mass. Filed June 6, 1927. Serial No. 196,930. 3 Claims. (Cl. 158—35.)

1. A torch of the character described having in combination two separate reservoirs; a burner tube leading from one of said reservoirs; a wick within said burner tube; a delivery tube leading from the other reservoir having its delivery end portion opposite and crosswise of the end of said burner tube; a wick within said delivery tube; a retort surrounding the delivery end portion of the delivery tube whose wall is interposed between the burner tube and said delivery end portion, and a vapor outlet for said retort adjacent the rear end of the latter positioned in spaced relation to said burner tube wick and approximately opposite the middle thereof.

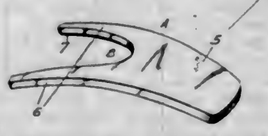


1,684,525. METHOD OF FORMING CEMENT BLOCKS. MARCUS TOMARIN, Chicago, Ill. Filed June 2, 1927. Serial No. 195,891. 7 Claims. (Cl. 18—61.)



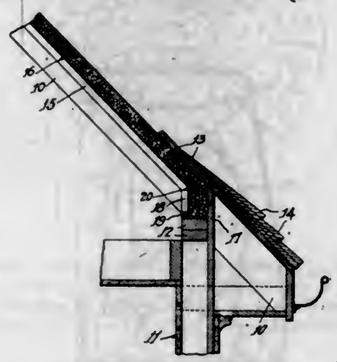
1. A method of producing an inlaid cement block consisting of first forming a plurality of spaced colored cement inlay sections, then filling the spaces between said colored inlay sections with dry cement, and covering the colored inlay sections and the dry cement with a wet cement mixture which is compressed to force the water therefrom, permitting said water to saturate the dry cement to form a solid cement block.

1,684,526. SHIM DRIFT. JESSE D. TUCKER and EMMITT M. TUCKER, Sacramento, Calif. Filed June 16, 1925. Serial No. 37,523. 5 Claims. (Cl. 81—3.)



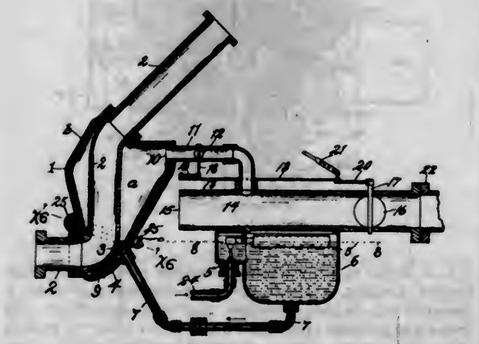
1. A shim drift comprising a rigid element having uninterrupted parallel top and bottom surfaces, one end of the element having a crotch cut into the parallel surfaces to form a pair of diverging arms of substantially equal length adapted to engage and hold a split spoke tightening shim and to move against the sides of the shim when the drift is hammered to press the split ends of the shim together.

1,684,527. INSULATED ROOF. HAROLD S. ASHENHURST, Chicago, Ill., assignor, by mesne assignments, to Insulex Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 16, 1925. Serial No. 9,641. 2 Claims. (Cl. 108—6.)



1. A roof comprising in combination rafters in spaced relation, a weatherproof covering secured to said rafters at their upper faces and held by said rafters substantially against vertical movement with respect thereto, sheet-like means secured to said rafters underneath the weatherproof covering and in spaced relation to said weatherproof covering, and a light porous monolithic body hardened in highly cellular form in the enclosed space between the rafters in close contact with the surfaces of the weatherproof covering and the other space defining parts and extending into all the irregularities of such surfaces.

1,684,528. APPARATUS FOR SUPPLYING FUEL TO INTERNAL-COMBUSTION ENGINES. JOHN MILES BARTLEY, Long Beach, Calif., assignor to General Combustion Company, Long Beach, Calif., a Corporation of California. Filed June 29, 1922. Serial No. 571,721. 4 Claims. (Cl. 123—133.)



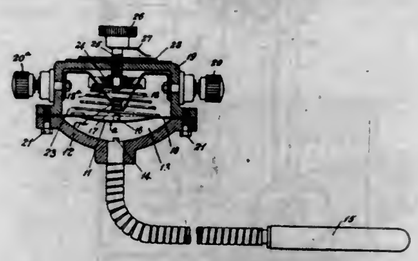
1. The combination with an internal combustion engine, of an upright exhaust pipe with an expansion chamber extending longitudinally thereof and arranged one inside the other, an air inlet conduit leading to the cylinders of the engine, means for conducting a hydrocarbon liquid to the lower end of said chamber, and a conduit leading from the upper end of the chamber to said air inlet conduit, said chamber being open from end to end and having its walls converging downward at an acute angle until the chamber arrives at a relatively small cross sectional area at its extreme lower end as compared with that at its upper portion.

1,684,529. GROCER'S HELPER. PAUL K. BASMADJIAN, Philadelphia, Pa. Filed June 27, 1924, Serial No. 722,654. Renewed Jan. 22, 1927. 13 Claims. (Cl. 294—22.)



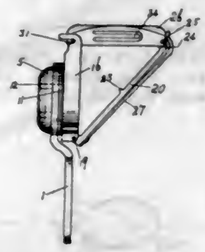
1. In a lifter for packages and cans, a handle, a sharply pointed projection from the upper end of the handle adjacent one side thereof, a downwardly directed and upwardly moved hook having hook portions on opposite sides of the point, and means pressing the hook downwardly.

1,684,530. PRESSURE-CONTROLLED DEVICE. FRANK J. BAST, New York, N. Y., assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 6, 1925. Serial No. 60,930. 16 Claims. (Cl. 200—140.)



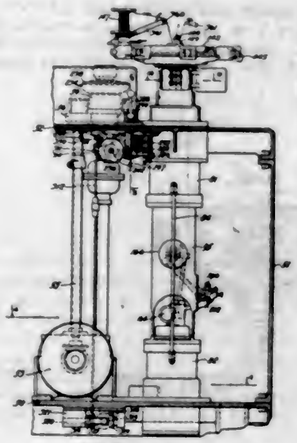
1. In a pressure controlled device, the combination of pressure developing means, a member provided with a deformed active section subject to the developed pressure and adapted to change its position abruptly upon the application of pressure extraneously thereto and to abruptly resume its normal position of its own accord when said pressure is released, and means whereby the interval between the snapping instant in one direction and in the return direction may be variably adjusted.

1,684,531. FINDER. CARL A. BORNMANN, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Feb. 3, 1926. Serial No. 85,755. 8 Claims. (Cl. 88—1.5.)



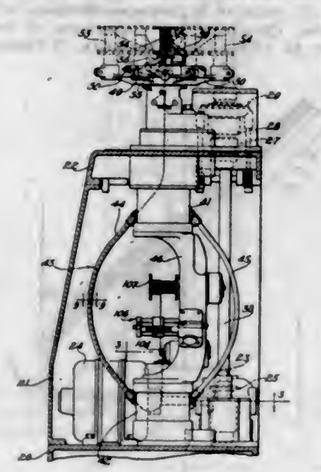
1. An article of manufacture comprising a support, a folding view finder rotatable on said support, means for automatically adjusting the field of said finder as the same is rotated on said support, and an element on said finder cooperating with means on said support, whereby said means is operative only when said finder is entirely unfolded.

1,684,532. METHOD OF AND APPARATUS FOR FORMING STRANDED ARTICLES. GEORGE ALFRED BOUVIER, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 12, 1926. Serial No. 80,709. 16 Claims. (Cl. 117—35.)



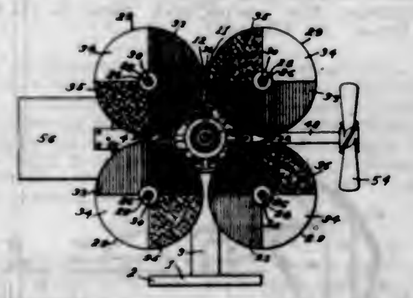
1. In stranding apparatus, a rotatable rigid member for guiding a strand, the member being shaped to guide the strand through a path conforming to the curve which a strand assumes when its ends are fixed to spaced points on an axis of rotation and it is rotated bodily around the axis.

1,684,533. STRAND-TWISTING APPARATUS. GEORGE ALFRED BOUVIER, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1926, Serial No. 84,000. Renewed May 10, 1928. 7 Claims. (Cl. 117—35.)



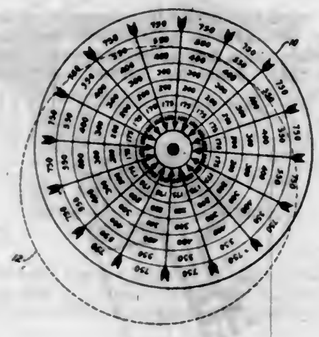
1. In strand twisting apparatus, strand twisting means, strand take-up means, a tubular member for carrying the twisted strand bodily around an axis of rotation and for guiding the strand from the twisting means to the take-up means, means for advancing the strand through the tubular member, and means for rotating the tubular member and said advancing means around a common axis of rotation other than that of the take-up means.

1,684,534. ADVERTISING DEVICE. HORACE L. CAMPBELL, St. Louis, Mo. Filed June 4, 1925. Serial No. 34,772. 2 Claims. (Cl. 40—34.)



1. A device of the character described comprising a supporting member, a frame rotatably connected thereto, a plurality of display members rotatably carried by the frame and grouped around the axis thereof adjacent to each other and having similar character-bearing sections similarly arranged thereon, and a parallel-motion mechanism connecting said supporting member and said display members whereby the vertical and horizontal diameter of each display member remains parallel with the same diameters of the other display members when said frame is rotated.

1,684,535. AMUSEMENT DEVICE. ARTHUR B. DEWES, St. Louis, Mo. Filed Sept. 21, 1927. Serial No. 220,950. 3 Claims. (Cl. 273—102.)

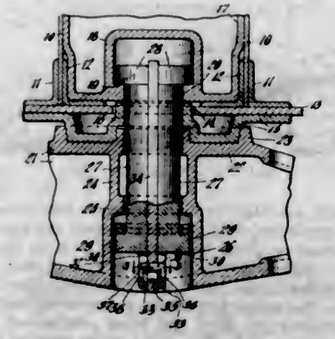


1. A disc pitching game comprising, in combination, a target provided with radially arranged columns of numbers, and a plurality of playing members of substantially the same shape and size as the target for use in pitching at the target.

1,684,536. FLOTATION PROCESS. ARTHUR H. FISCHER, New York, N. Y., assignor to Guggenheim Brothers, New York, N. Y., a Copartnership. Filed Jan. 24, 1927. Serial No. 163,310. 8 Claims. (Cl. 209—166.)

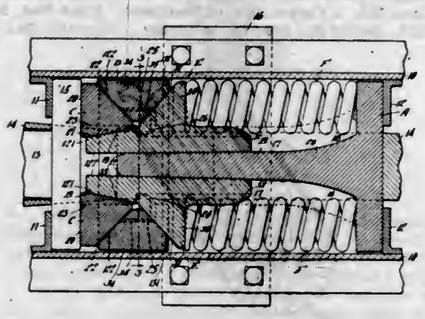
1. The improvement in the concentration of minerals by froth flotation which comprises subjecting the mineral in the form of a pulp to a flotation operation in the presence of a water-repellent reaction product resulting from the reaction between a metal xanthate and an organic acid chloride.

1,684,537. CAR CONSTRUCTION. WILLIAM A. GEIGER, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 18, 1927. Serial No. 206,549. 7 Claims. (Cl. 105—200.)



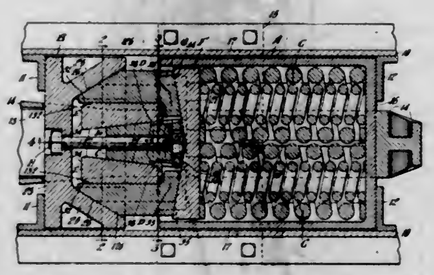
1. In a structure of the character described, the combination with the under-framing of a car, and a truck bolster, said under-framing and truck bolster providing king pin openings and oppositely disposed bearing shoulders; of a locking pin insertable from beneath the truck bolster and including flanged sections adapted to be disposed in line with said bearing shoulders when in position, each of said sections being provided at its lower end with an extension; a spreader disposed between said sections for maintaining the flanges of the latter in line with the bearing shoulders of said under-framing and truck bolster, said spreader being provided with an opening adjacent its lower end; and a fastening device having abutments thereon adapted in one position to engage with abutments on the extensions of said sections and in a different position, being detachable with reference to said extension abutments, said fastening devices extending through the opening in said spreader and being held thereby in position to prevent disengagement of said abutments.

1,684,538. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 23, 1925. Serial No. 25,237. 5 Claims. (Cl. 213—36.)



1. In a friction shock absorbing mechanism, the combination with a central friction post of I-beam cross-section, said post having opposed longitudinal extending friction surfaces; a plurality of wedge blocks having transverse outer end faces; a pressure transmitting member directly engaging said outer end faces of the wedge blocks; friction shoes cooperating with the wedge blocks and friction post; a lateral pressure resisting means having interior wedge faces cooperating with the wedge blocks and shoes; and spring resistance means opposing inward movement of the shoes.

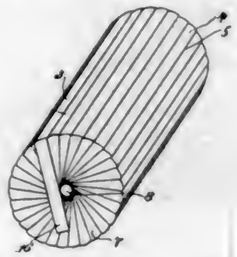
1,684,539. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 24, 1926. Serial No. 156,821. 6 Claims. (Cl. 213—36.)



1. In a friction shock absorbing mechanism, the combination with a friction post having inwardly diverging friction surfaces; of a follower acting means, said means and post being movable toward and away from each other, said follower having laterally inwardly acting wedge means movable therewith; friction shoes having wedging engagement with said wedge means; friction elements interposed between the shoes and post and having friction sur-

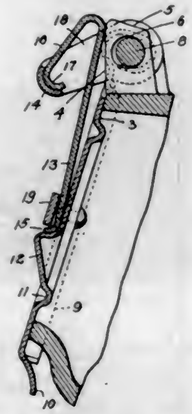
faces co-operating therewith, the co-operating surfaces of said post and friction elements being inclined with respect to the co-operating friction surfaces of the shoes and friction elements, whereby said last named co-operating surfaces will offer less resistance to longitudinal movement than the remaining co-operating surfaces, said friction elements being normally spaced from the follower acting means a distance less than the full compression stroke of the mechanism, whereby when said mechanism is compressed to a predetermined extent, the friction elements will be forced to move relatively to the post; and spring means yieldingly opposing movement of the shoes inwardly of the mechanism.

1,684,540. PACKAGE. JAMES P. HOOPER, Ruxton, Md., assignor to William E. Hooper & Sons Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 23, 1927. Serial No. 177,574. 4 Claims. (Cl. 206—59.)



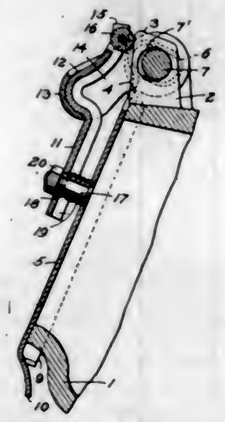
1. A package comprising a cylindrical body and a wrapping therefor in the form of strip material extending around the package in a series of loops, each loop encompassing the entire outside surface of the package and lying thereon in a line which is substantially the intersection with the cylindrical surface of a plane parallel to the axis, and each loop being at an angle to the succeeding loop whereby the wrapping material is caused to contact as to the edge portions and cover the sides and ends of the cylinder.

1,684,541. JOURNAL-BOX LID. LEIGH W. HOSTETTLER, Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa., a Corporation of Pennsylvania. Filed Nov. 23, 1923. Serial No. 676,559. 8 Claims. (Cl. 308—47.)



8. The combination with a journal box having a lug provided with angularly disposed bearing faces, of a lid hinged to said lug, a lid closing spring connected to said lid at one end and means hinged to said lug and co-operating with the other end of said spring for maintaining said spring in operative engagement with said lug.

1,684,542. JOURNAL-BOX LID. LEIGH W. HOSTETTLER, Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa., a Corporation of Pennsylvania. Filed Nov. 23, 1923. Serial No. 676,560. 3 Claims. (Cl. 308—47.)



1. The combination with a journal box having a hinge-pin lug provided with angularly disposed bearing faces, of a hinge pin extending through said lug, a lid hinged on said pin, a rigid member adapted to press said lid closed, at one end cooperating with said bearing faces and at the other end yieldingly associated with said lid and a support for said member mounted on said pin.

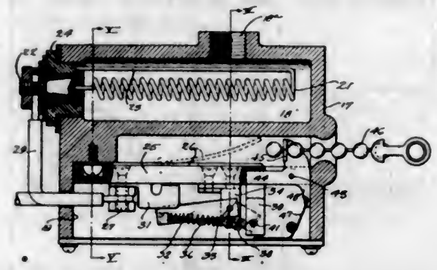
1,684,543. TURN SHOE. RUBIN KAMINSKY, Jersey City, N. J., assignor to Melrose Slipper Co. Inc., New York, N. Y., a Corporation of New York. Filed Dec. 19, 1927. Serial No. 241,032. 4 Claims. (Cl. 36—18.)



1. A hard sole shoe or mule having a sole reduced in thickness on the flesh side to form a feather and having the feather turned up about its margin to form an elongated pocket, an upper sewed to the outer face of the feather and doubled back upon itself, a soft resilient filler located in the elangoted pocket of the sole, a cover piece closing the pocket, enclosing the filler and being overseamed to the edge of the upturned feather, and a shank stiffener located between the cover piece and the filler.

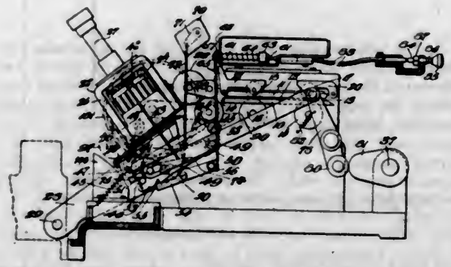
1,684,544. THERMOSTATICALLY-CONTROLLED HEATING ELEMENT. LEWIS H. LAMONT, Oak Park, Ill. Filed Oct. 24, 1925. Serial No. 64,503. 4 Claims. (Cl. 219—38.)

1. A heating device of the class described comprising an electric heating element and a snap-over switch controlling the current supply therefor, said switch comprising a pair of oppositely extending U members pivoted at a common axis, a spring connecting said U members, insulated terminals adapted to be bridged by one of said members, a



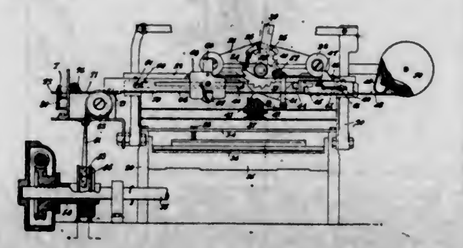
thermostatic member adapted to mechanically open said switch, and a manual control for closing said switch against the action of the thermostatic member.

1,684,545. NUMBERING AND COUNTING DEVICE. WILLIAM W. LASKER, Brooklyn, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed May 15, 1924. Serial No. 713,534. 18 Claims. (Cl. 101—78.)



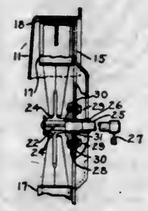
1. In a mechanism of the character stated, the combination of a machine having a reciprocable registration device for separately acting upon a series of cards, means for printing numbers on said cards, and means actuated by a card in said device for permitting said printing means to function.

1,684,546. CARRIAGE RETURN AND NORMALIZING MECHANISM FOR CARD-PERFORATING MACHINES. WILLIAM W. LASKER, Brooklyn, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1927. Serial No. 187,194. 5 Claims. (Cl. 164—112.)



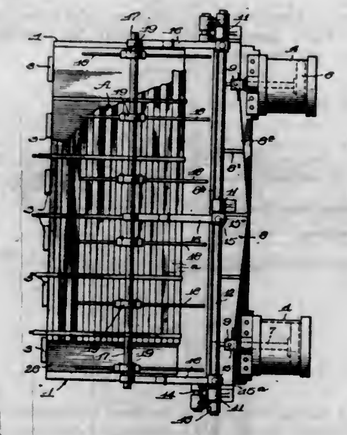
1. The combination with the carriage of a card punching machine, of a block normally out of the normal traverse of said carriage and formed with means for engagement with a portion of said carriage, electro-magnetic means for moving said block to effect return of said carriage to home position, and automatic means for returning said block to normal position after it has effected the return of said carriage.

1,684,547. BRAKE. VINCENT LINK, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Sept. 22, 1924. Serial No. 739,096. 4 Claims. (Cl. 188—78.)



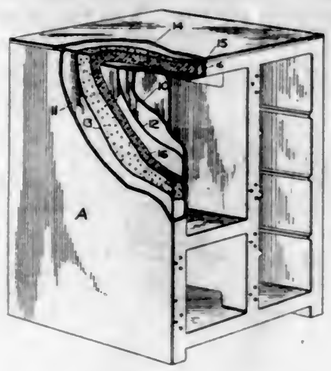
1. In a vehicle brake, a brake drum, a plurality of shoes pivotally supported within said drum and movable to contact therewith, a cam to expand said shoes journaled in a bracket attached to a brake dust cover having a plurality of slotted openings therein, and screws received within said slotted openings and threaded into said bracket whereby said bracket can be moved and secured in position whereby said cam can apply equal pressure to said shoes.

1,684,548. POWER CLAMP. EMIL C. LOETSCHER, Dubuque, Iowa. Filed May 6, 1927. Serial No. 189,446. 10 Claims. (Cl. 144—291.)



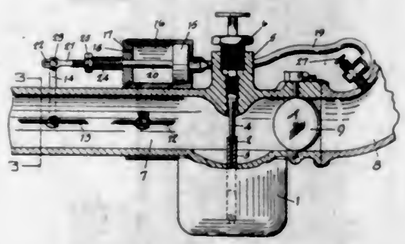
1. A power clamp comprising a bed, a clamping bar mounted for edgewise sliding movement adjacent one edge of said bed, a cylinder mounted adjacent said clamping bar, a fluid actuated piston in said cylinder having direct connection with said clamping bar, a rock shaft journalled on said clamping bar, resilient arms fixed to said rock shaft, pressure bars mounted at the ends of said arms and above said bed, and a lever arm fixed to said rock shaft and having pivotal connection with said bed.

1,684,549. REFRIGERATOR CONSTRUCTION. CHARLES EDWARD LUCKE, New York, N. Y., assignor to The Hoover Company, a Corporation of Ohio. Filed Apr. 23, 1926. Serial No. 104,054. 2 Claims. (Cl. 217—17.)



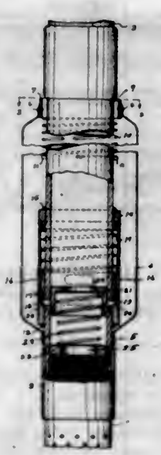
1. The method for constructing refrigerator walls, consisting in providing two plates each having a surface coated with a material having a moderately high temperature melting point, mounting said plates with said coated surfaces facing each other and arranged relatively spaced and thereby forming a mould, filling said mould with a heat insulating material in a fluid or liquid state but of a character which may be solidified to form a cellular structure, and finally heating the mould to cause said coating material to fill such interstices which may appear in said insulating material and which are exposed thereto and also maintain close adhesion thereof to said plates.

1,684,550. CARBURETOR. MARION MALLORY, Toledo, Ohio. Filed May 3, 1926. Serial No. 106,305. 3 Claims. (Cl. 261—61.)



1. In a carburetor for an internal combustion engine, the carburetor having a passageway communicating at one end with the intake of the engine, the carburetor having a fuel inlet communicating with the passageway, a throttle valve located in the passageway, the wall of the carburetor being closed as against entrance of air as between the fuel inlet and the throttle valve, a choke valve for closing the entrance of air to the passageway and located on the side of the fuel inlet opposite to that on which the throttle valve is located, and a pneumatic means responsive to the pressure in the passage-way at a point between the throttle and the engine for closing the choke valve as the pressure at said point is increased.

1,684,551. CEMENTING APPARATUS. SANFORD E. MANNING, Smackover, Ark. Filed Mar. 1, 1927. Serial No. 171,849. 6 Claims. (Cl. 166—1.)



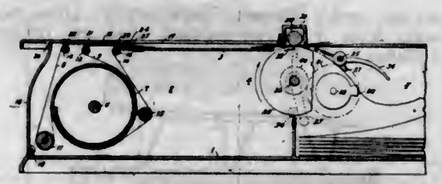
2. The combination with a pipe, of an expansible container around the pipe, one end of which is closed and secured to the pipe, there being a passageway leading from within the pipe into the container, the other end of the container being open, yieldably mounted valves, one on the inside and the other on the outside of said pipe, said valves normally closing said passageway and being adapted to yield, under the influence of pressure exerted through said pipe to open said passageway.

1,684,552. SECTIONAL WHEEL. ALEXANDER MELDRUM, Syracuse, N. Y. Filed Apr. 23, 1925. Serial No. 25,382. 1 Claim. (Cl. 301—65.)



In a vehicle wheel, in combination, integral complementary sections each including integral parts which when the sections are placed together form a solid hub, hollow spokes radiating therefrom, a hollow felloe and a rim closing the outer side of said felloe, rivets securing said sections together at the hub and felloe and a boss on each felloe section surrounding each rivet, said bosses abutting to prevent crushing of the rim during riveting.

1,684,553. AUTOGRAPHIC REGISTER. WILLIS B. RICE, New York, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada, a Corporation of Ontario, Canada. Filed Feb. 14, 1925. Serial No. 9,156. 9 Claims. (Cl. 242—55.)



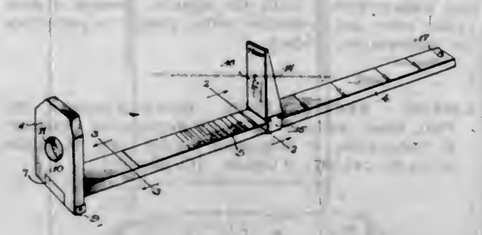
2. The method for feeding a plurality of interwound strips from a roll at a uniform rate, which comprises taking the strips from the roll at equally spaced intervals around its circumference.

1,684,554. PROTECTIVE SHEATH FOR FLEXIBLE SHAFTS. GUSTAV RIEPENSTAHL, Berlin-Treptow, Germany, assignor to Deutsche Gold- und Silberscheideanstalt, Frankfort-on-the-Main, Germany. Filed June 22, 1927, Serial No. 200,723, and in Germany June 23, 1926. 2 Claims. (Cl. 64—30.)



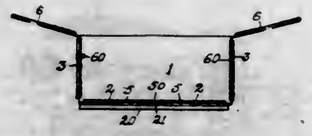
1. A protective sheath for flexible shafts comprising at least two helical wire coils of equal pitch and of different diameters screwed together to form a closed sheath, connecting sockets at the ends of said coils, rotary members on said sockets, flanges underlying the ends of the coils on said rotary members, and projections on said flanges for engaging the ends of the wires of the coils.

1,684,555. EYE TESTER. BENJAMIN D. RITHOLZ, Chicago, Ill., assignor to National Watch & Jewelry Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 17, 1926. Serial No. 136,093. 1 Claim. (Cl. 88—20.)



An eye testing device comprising a slide bar oblong in cross section, a lens holder having an opening and a recess therein, a lens at the rear end of the opening, a paper sheet having an opening therein to register with the lens and the opening in the holder and affixed to the holder to secure the lens in place, a slide bar having its end seated in said recess, a strip secured to the bottom of the holder over the end of the slide bar and to the slide bar, and a chart carrying slide block mounted on the slide bar.

1,684,556. FRUIT-BOX PAD AND LINING. DAVID H. ROSENBERG, Medford, Oreg. Filed June 29, 1926. Serial No. 119,315. 3 Claims. (Cl. 217—3.)



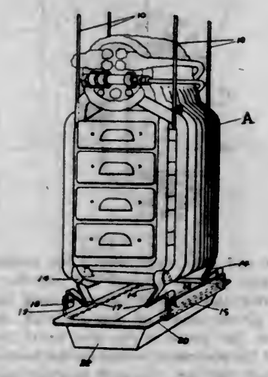
1. In combination with a fruit packing box, a fruit packing protector embodying a mounting sheet and a padded member secured by hinged means to said mounting sheet in spaced relation thereto, said spaced relation forming an aerating slot between said mounting sheet and padded member, said mounting member being held in position by the fruit pressing against the same.

1,684,557. GAME BALL. ADDISON T. SAUNDERS, Akron, Ohio, assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Feb. 3, 1927. Serial No. 165,663. 2 Claims. (Cl. 273—61.)



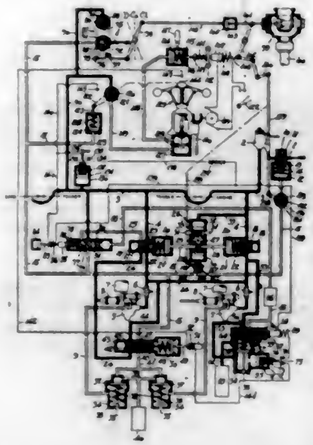
1. A hollow game ball as a substitute for the shuttle in badminton or for light tennis and the like, comprising a thin resilient perforated indentable rubber wall, said wall being adapted to be locally sharply indented upon impact of slight force and when so indented in any portion to retain its spherical form in other portions, and to recover from indentation, the perforations being of small size such that the spherocity of the ball will be substantially unimpaired, substantially as described.

1,684,558. REMOVABLE DRAIN PAN FOR REFRIGERATORS. EMIL P. SCHWARZ, St. Paul, Minn., assignor to Seeger Refrigerator Company, a Corporation of Minnesota. Filed Oct. 14, 1926. Serial No. 141,629. 9 Claims. (Cl. 62—95.)



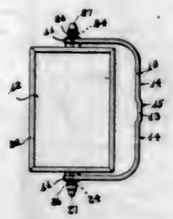
1. A removable drain pan for refrigerating units and means for holding said pan slidably below and directly by a refrigerating unit.

1,684,559. AIR-BRAKE APPARATUS. DANIEL HERBERT SCHWEYER, Easton, Pa. Filed Apr. 2, 1925. Serial No. 20,103. 45 Claims. (Cl. 303—18.)



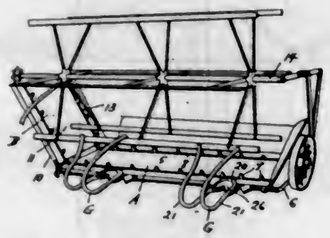
6. In an air brake apparatus, a main reservoir pipe, a train line brake pipe, a locomotive brake pipe normally connected to the train line brake pipe, means operable for initiating caution or service brake application conditions, means operable under such conditions for shutting off communication between the brake pipes, means operable under such conditions for opening the train line brake pipe for the discharge of air and operable to shut off such discharge below a predetermined train speed, means operable under such conditions for establishing communication between the main reservoir and locomotive brake pipes, means operable below a predetermined train speed for opening the locomotive brake pipe for the limited discharge of air therefrom, and means operable following the operation of the fifth named means for connecting the main reservoir and train line brake pipes to recharge the train line brake pipe.

1,684,560. REAR-SIGHT MIRROR. HARRY T. SCOTT, Los Angeles, Calif. Filed Apr. 28, 1926. Serial No. 105,181. 2 Claims. (Cl. 45—97.)



2. In a rear and side view mirror for inclosed cars, a reflector, a frame formed around the reflector and made of light material and having punched and burred bearing portions, pivots made of screws with the grooved heads folded on the plane of the slot until the top horizontal edges of the slot meet seated in the bearing portions and held against turning, the said bearing portions having shapes to seat the folded screw heads, a supporting frame having apertured ends to engage the pivots, cup-washers disposed over the burred portions of the reflector-frame and between the reflector-frame and the supporting frame, and locking means for drawing and holding the said bearing portions of the reflector-frame into the said washers and against the supporting frame.

1,684,561. CORN BINDER. CHARLES T. SULLIVAN, Cassoday, Kans. Filed July 26, 1926. Serial No. 125,030. 5 Claims. (Cl. 56—77.)

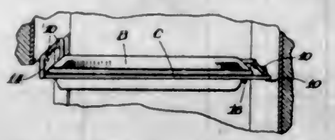


1. In a binder structure; wherein the binder includes a horizontal conveyor frame among other elements; brackets fixed on the front edge of the frame, a cutter bar slidable through the brackets, two pairs of blades on the cutter bar, a pair of guides, each guide comprising a U-shaped body, a block, and extensions on the block forming a shoulder with the block, the end of the extension merging into the body adjacent its ends and disposed with its major portion spaced from the body, and arms extending from the ends of the body and curved upwardly and rearwardly, a pair of blades in each body, said cutter bar adapted to slide on top of the blocks when fixed to the forward edge of the frame, and the blades on the cutter bar adapted to move in the space provided between the extensions and the bodies.

1,684,562. PROCESS OF PRODUCING A NEW ACID AND ITS SALTS STRONGLY ABSORBING ULTRA-VIOLET RAYS. TSUNEO SUZUKI and SUEO SAKURAI, Tokyo, Japan, assignors to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Filed Aug. 11, 1924, Serial No. 731,488, and in Japan Dec. 20, 1923. 2 Claims. (Cl. 260—10.)

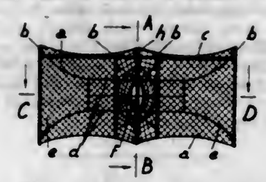
1. The process of preparing a condensation product of sugar and a parasulphonic acid compound of phenylhydrazine which comprises heating a water solution of an osazone-forming sugar, para-sulphonic acid compound of phenylhydrazine in quantity sufficient to form an osazone, and sodium acetate until the solution assumes a dark yellow color, and thereafter adding alcohol to precipitate the condensation product.

1,684,563. REFRIGERATOR. ENOCH SWEDMAN, St. Paul, Minn., assignor to Seeger Refrigerator Company, a Corporation of Minnesota. Filed Jan. 18, 1928. Serial No. 247,597. 9 Claims. (Cl. 62—95.)



9. A refrigerator having a refrigerating unit, a supporting means for a receptacle including a frame member having side rails positioned near said unit and means for supporting said side rails in a manner to permit a receptacle to slide thereon.

1,684,564. WEEL MADE OF NETTING. FRIEDRICH WILHELM HEINRICH TOPPE, Schwartau, near Lubeck, Germany. Filed Mar. 3, 1927, Serial No. 172,343, and in Germany Mar. 4, 1926. 4 Claims. (Cl. 43—100.)

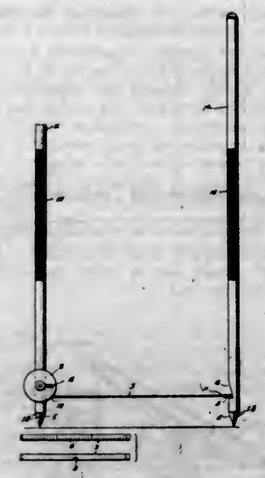


1. A fish and eel trap comprising a tubular net body having end and lateral wall openings, hoops arranged transversely of the body for maintaining the openings in said body at the proper extension, funnel-shaped inlet nets at the end and lateral openings of said body, stretching rods fastened to said hoops for maintaining the net body in an open position, an oval hoop projecting beyond the sides of the net body, and guide nets fastened to said oval hoop.

1,684,565. COATED METALLIC ARTICLES SUCH AS STEREOTYPIC PLATES AND METHOD OF PRODUCING SAME. COLBY CHARLES WALLER, New York, N. Y. Filed Feb. 7, 1924. Serial No. 691,284. 27 Claims. (Cl. 22—200.)

16. The method of producing a copper coating upon a stereotypic plate which includes impregnating a fibrous blank with an emulsion containing copper sulphate, hydrous aluminum silicate, boiling water and powdered gum arabic, impressing said matrix with the desired characters at a temperature approximating 240° F., casting molten type metal against said matrix, removing said casting and cleaning the surface thereof.

1,684,566. TEN-YARD LINE. MOSES H. WINKLER, Meridian, Miss. Filed July 12, 1927. Serial No. 205,112. 6 Claims. (Cl. 33—86.)



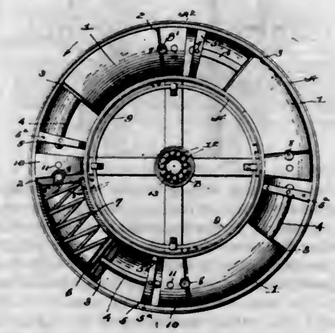
1. A ten yard line for foot ball games comprising two poles having pointed ends, one of said poles having a cut-out above its pointed end and the other pole having a notch above its pointed end, a tape case fastened in the cut-out of the first pole, a tape within the said case and adapted to unroll therefrom, and a fastener anchored in the notch of the second pole and adapted to engage the free end of the tape for detachably securing the latter to said second pole.

1,684,567. PROPELLER. CHARLES ARTHUR WRAGG, Washington, D. C., assignor of one-half to Louis H. Crook, Washington, D. C. Filed Dec. 30, 1925. Serial No. 78,392. 15 Claims. (Cl. 170—165.)



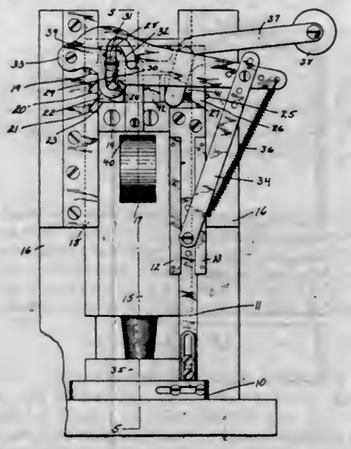
1. In a propeller structure, a main blade and an auxiliary blade, the auxiliary blade being substantially parallel sided and positioned with its leading edge adjacent the trailing edge of the main blade and parallel thereto.

1,684,568. FLYWHEEL. ARTHUR A. ALEXANDER, New York, N. Y. Filed Aug. 8, 1922. Serial No. 580,428. 5 Claims. (Cl. 74—6.)



4. In a shock absorbing device, a casing, a plurality of arcuate pneumatic cylinders contained in said casing, pistons operatively mounted in said cylinders, a cover for said casing having a shaft co-axial with and journaled in said casing, suitable connecting means between said cover and said pistons so that said pistons are operated in said cylinders whenever there is relative motion between said casing and said cover.

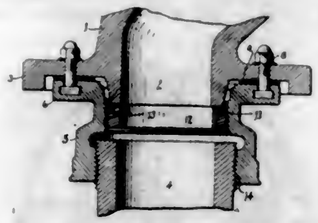
1,684,569. SAFETY DEVICE FOR FOOT-POWER PRESSES. CLIFFORD G. ARMSTRONG, Meriden, Conn., assignor of one-half to Herbert C. Armstrong, Meriden, Conn. Filed Mar. 2, 1927. Serial No. 172,035. 5 Claims. (Cl. 192—137.)



1. A safety device for foot power presses, comprising a guard, a slide to which the guard is attached, a guideway for said slide arranged vertically at one side of the ram, a

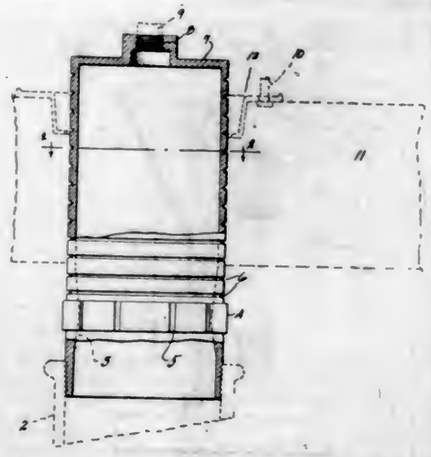
block connected with the ram of a press, said guideways connected with said block, a rack secured to the frame on the opposite side of the ram, a longitudinally-movable bolt mounted in said block, means tending to throw the bolt forward, a latch for holding said bolt in its retired position and provided with a stud, a guard-lever pivotally connected with the said rack and formed with a cam-slot into which the said stud extends, and a link connecting said guard-lever with said slide.

1,684,570. CLOSET FLANGE. EDWARD W. N. BOOSEY, Detroit, Mich. Filed Nov. 18, 1922. Serial No. 601,857. 2 Claims. (Cl. 295—34.)



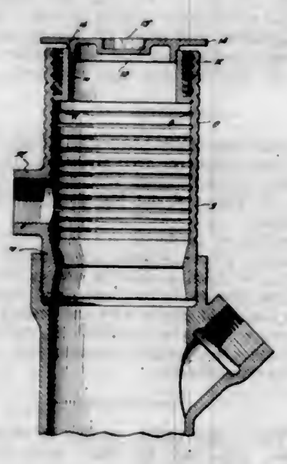
1. The combination with a closet bowl having a base and a discharge horn extending downwardly from the base, of a discharge fitting comprising a tubular body having a lateral flange at one end, means for securing the flange to the bowl base, a gasket between said flange and base, the said body having an internally threaded throat into which the horn extends, a ring member in threaded relation with the throat and movable to engage the end of the horn, said member being shaped at the upper end and exterior surface to provide a pocket between the said horn end and the threaded throat to receive a sealing material, said body being further provided with an enlarged portion provided with internal threads in spaced relation with the threaded throat adapting said body to be attached to an externally threaded pipe providing a conduit having an internal diameter at least as great as the internal diameter of said horn and ring.

1,684,571. FERRULE FOR CONNECTING PLUMBING FITTINGS WITH PIPING. EDWARD W. N. BOOSEY, Detroit, Mich. Filed July 3, 1926. Serial No. 120,367. 1 Claim. (Cl. 137—75.)



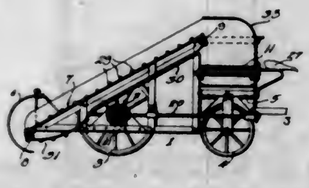
A ferrule for connecting a plumbing fitting with a pipe comprising a hollow tubular member open at one end and externally threaded at the said end for introduction into the pipe, a portion of the wall of the ferrule above the threaded end being of greater thickness than the remaining portion thereof, a shoulder portion provided on the exterior of the member at the said thicker wall portion of a form to provide a wrench hold, the wall of the ferrule above the wrench hold being formed with spaced circumferential grooves providing weakened lines along any one of which said ferrule may severed, the opposite end of the ferrule being closed by a well integral therewith, a central projecting boss at said closed end having a threaded aperture to receive a plug for closing the same.

1,684,572. CLEAN-OUT FITTING FOR PLUMBING SYSTEMS. EDWARD W. N. BOOSEY, Detroit, Mich. Filed Nov. 26, 1926. Serial No. 150,756. 8 Claims. (Cl. 137—75.)



1. A cleanout fiting for plumbing installations comprising a hollow cylindrical member having a threaded open end and means for closing the opposite end providing a wrench-hold for threading the device to a conduit, said fitting having a hub adjacent the threaded end for connection of a conduit therewith, the wall of the fitting being internally and externally circumferentially grooved providing a series of weakened areas permitting severance of the closed end thereof at any of a number of points, the internal grooves being in staggered relation with the external grooves.

1,684,573. HAY RAKE AND BUNCHER. JOHN BOYD, Byron, Calif. Filed Oct. 8, 1924. Serial No. 742,381. 2 Claims. (Cl. 56—357.)



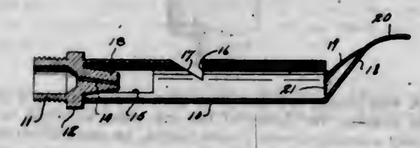
2. A device of the class described, comprising a rake having its forward side concave, an inclined endless conveyor mounted on rollers and extending into the forward side of said rake, said conveyor being loose on its rollers, and supporting means for the lower reach of said conveyor, said supporting means terminating at a substantial distance from the lower roller to permit a portion of said lower reach adjacent said rake to droop to a substantially horizontal position to enable it to force material into the rake.

1,684,574. PAVING RAMMER. ERNST HJALMAR CARLSSON, Oscarshamn, Sweden. Filed Sept. 22, 1926, Serial No. 137,023, and in Sweden Aug. 28, 1926. 5 Claims. (Cl. 94—49.)



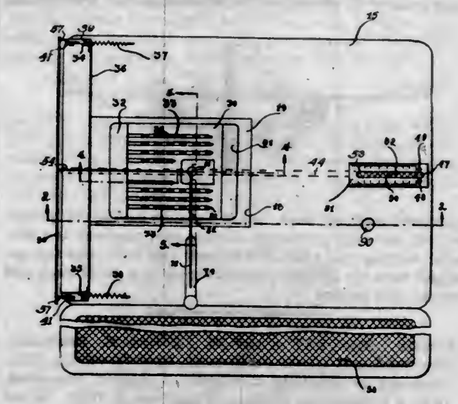
1. In a ramming machine of the character described, the combination of an upright reciprocating ram, and lifting means for the ram comprising a rotary driving member, an oscillating element associated with said driving member, means to connect and disconnect the oscillating element from the driving member whereby the oscillating element partakes of the movement of the driving member a predetermined distance and then disconnects from the member to permit the oscillating element to return to its initial position with fall of the ram, and a yieldable braking means operating on said oscillating element to hold the latter stationary subsequent to the fall of the ram.

1,684,575. GAS BURNER. HAMMEL H. CARRELL, Lubbock, Tex., assignor of one-half to Solomon Nathan Jackson, Lubbock, Tex. Filed Feb. 14, 1928. Serial No. 1 Claim. (Cl. 137—75.)



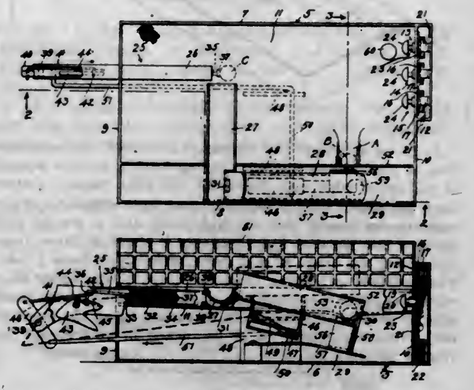
3. A gas burner of the character described comprising a tubular member having a gas jet entering one end thereof, the longitudinal axis of the jet being disposed at a slight angle to the longitudinal axis of the tube whereby the gas discharged from the jet will strike the wall of the tube, the tube adjacent the jet on each side thereof being formed with air inlet openings and in advance of these inlet openings being formed in its top wall with an air inlet opening defined by two walls one extending downward and forward into the tube and one extending transversely, said last named opening being disposed rearward of the place where the gas strikes the wall of the tube, the forward end of the tube being formed with an integral upwardly and outwardly extending, longitudinally curved deflector, the inner corners of the deflector being bent over and inward to form wings extending diagonally outward from the mouth of the tube and defining air inlet openings, the body of the deflector being formed with air inlet openings.

1,684,576. GOLF INDICATING MECHANISM. HARRY G. CONNER, Detroit, Mich. Filed Sept. 11, 1926. Serial No. 134,805. 5 Claims. (Cl. 273—85.)



1. In a device of the class described a golf ball; a yieldable indicating member; means for attaching said golf ball to said indicating member, said indicating member indicating the force of said ball in a flight; a plurality of movable members for indicating departure of said ball from the normal path of flight; and means for preventing a rebounding of said ball into engagement with said movable members.

1,684,577. SHOOTING GAME. GEORGE B. DEACON, Los Angeles, Calif. Filed July 22, 1927. Serial No. 207,699. 4 Claims. (Cl. 273—119.)

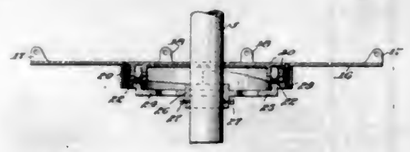


1. A game structure comprising a platform having a low point adapted to deliver balls therefrom; a tiltable track arranged adjacent said platform; a catapult; means for releasing the projecting mechanism of said catapult and means for tilting said track to propel balls delivered thereto from said platform to a point for impulsion by said catapult.

1,684,578. GATE-CLOSING DEVICE. WILLIAM K. EDWARDS, Big Spring, Tex. Filed May 4, 1926. Serial No. 106,648. 1 Claim. (Cl. 39—53.)

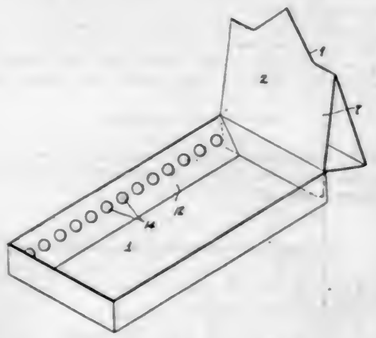
In a gate, the combination of a frame having a vertical post, supporting means comprising a disk having upturned flanges formed as inclined tracks, depressions at the bases of the tracks, arranged substantially diametrically opposite each other, a gate mounted to swing from open to

closed position about said post as a center, spaced lugs projecting below said gate, anti-friction rollers between said lugs having axles with bearings in said lugs, said rollers arranged at diametrically opposite points and resting



upon said inclined ways, and a housing having its bottom portion centrally perforated to pass over the post and provided with spaced apertures to pass over said lugs and arranged with an annular depending portion to protect and conceal said rollers.

1,684,579. DISPLAY CARTON. JAMES E. FERGUSON, Cleveland, and HENRY L. MOONEY, East Cleveland, Ohio, assignors to The Lake Lithograph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 8, 1924. Serial No. 736,490. 5 Claims. (Cl. 206—44.)



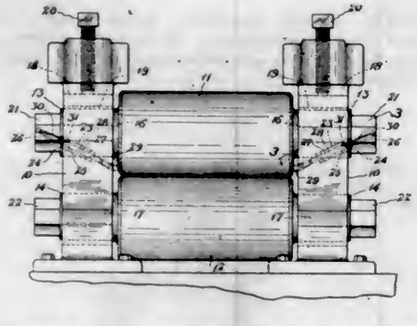
1. In an article of the character described, the combination of the base section of a carton having a cover hinged at an upper edge and therewith carrying display matter upon its upper side, a fold along an approximately intermediate transverse line of said cover and a second fold along a line parallel to and spaced a short distance from the line of the hinge of said cover, whereby to form a rearward support extending from the hinge at the upper edge when the cover is opened, and a tongue formed at the front edge of said cover adapted to be tucked in at the front of the carton for closing or to be tucked in at the rear for display position.

1,684,580. CHAIN COUPLER. MATHEW J. FRAMBACH, Hartley, Iowa. Filed Dec. 21, 1927. Serial No. 241,602. 4 Claims. (Cl. 24—237.)



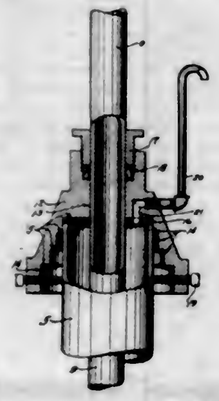
1. A coupling lever having a pair of arms connected at one end by a loop and provided with hooks at their opposite ends to engage through a keeper, said arms being movable toward and away from one another in one plane, and said loop being located at one side of said plane and in a plane at substantially right angles with the first named plane.

1,684,581. DEVICE FOR PREVENTING COLLECTION OF GREASE ON ROLLS. HENRY J. HARRIS, Youngstown, Ohio. Filed Aug. 27, 1926. Serial No. 131,030. 6 Claims. (Cl. 80—1.)



1. A device for preventing grease from contacting with the working surfaces of rolls of rolling mills comprising means adapted to be secured to the mill and extending into engagement with the shoulder of a roll.

1,684,582. SANITARY WELL CAP AND PIPE CLAMP. EARNEST E. HOAGLUND, Minneapolis, Minn. Filed Dec. 24, 1926. Serial No. 156,963. 1 Claim. (Cl. 166—14.)

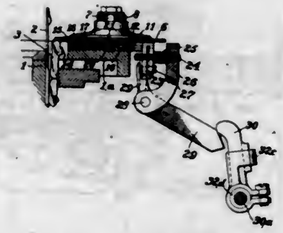


A well casing cap and drop pipe clamp having a drop pipe passage, the flange of the cap being arranged to be loosely telescoped onto a well casing, an annular internal packing in the cap, means for compressing the packing to contract the same onto a drop pipe extending through said passage for fictionally holding said pipe against lifting movement during pumping action, a compressible gasket in the cap arranged to rest on the upper end of the casing and support the cap thereon and be compressed thereby to seal the joint between said cap and casing, and a set screw having threaded engagement with the flange of the cap and arranged to impinge against the casing.

1,684,583. SPRING-BEARD KNITTING MACHINE. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1927. Serial No. 164,844. 9 Claims. (Cl. 66—101.)

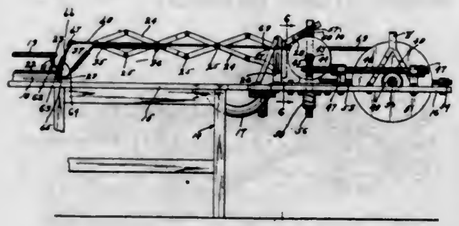
1. In combination in a spring beard needle knitting machine, individual pressers for the needle beards, having their cam contacting edges differently formed relative to each other for knitting and tucking, a tuck presser wheel

adapted to operate certain of the pressers to knit and having deep notches to permit certain pressers to remain idle for tucking and cam means for eliminating the action of



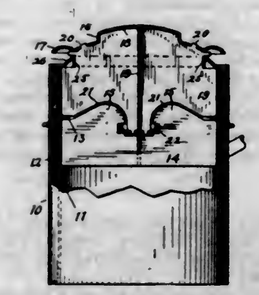
the tuck wheel upon certain of the pressers by operating said certain pressers and missing others, the latter being left under the control of the tuck presser wheel, substantially as described.

1,684,584. IRONER. RUDY HILGEDICK, Chicago, Ill. Filed Mar. 14, 1927. Serial No. 175,180. 10 Claims. (Cl. 68—9.)



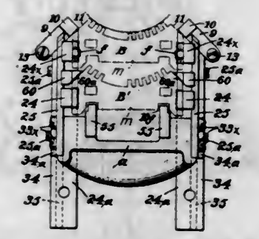
1. The combination with a table having an ironing surface, of a support, a sadiron having a handle by which pressure may be applied thereto, said sadiron being carried by the support for movement over the ironing surface and out of contact therewith, said sadiron being movable on the support into a position in which it rests on the ironing surface for ironing action, motor-actuated connections for moving the support to impart to and fro movements to the sadiron, and manually-controlled connections arranged to be actuated by the handle of the sadiron for causing the motor-driven connections to reverse their movements.

1,684,585. BURNER. RUDOLPH HOFFMAN, Cleveland, Ohio. Filed Oct. 26, 1925. Serial No. 64,742. 9 Claims. (Cl. 158—94.)



3. In burners of the class described, the combination of inner and outer wick tubes forming an annular wick space therebetween, said inner tube having a ledge on the interior thereof, a flame spreader arranged above said tubes with its periphery projecting over said space, vertically disposed radial vanes to which said spreader is attached, said vanes fitting within the inner tube and resting on said ledge, and a frusto-conical air barrier carried on said members and closely fitting the interior of said inner tube and projecting inwardly and upwardly from the upper edge thereof.

1,684,586. NEEDLE-SELECTOR JACQUARD FOR KNITTING MACHINES. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Apr. 5, 1927. Serial No. 181,088. 11 Claims. (Cl. 66—50.)

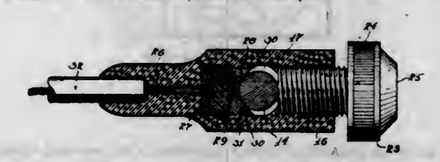


1. In combination with a needle bed, a stack of unattached toothed plates for controlling the action of the needles, means for moving said plates individually from the stack to needle controlling position at the needle bed and for retracting said plates individually to take their places in the stack, and a magazine carrying the stack of plates removably mounted on the machine, to be handled with said stack of plates as one body in placing it into or removing it from position in the machine.

1,684,587. CARBON-MONOXIDE-TESTING MEANS AND METHOD. EDGAR W. HULTMAN, Los Angeles, Calif. Filed Mar. 23, 1926. Serial No. 96,882. 4 Claims. (Cl. 23—5.)

1. As a means of detecting poisonous gases, test papers containing palladium protochloride, said papers being kept moist by the presence of a hygroscopic salt.

1,684,588. ELECTRICAL CONNECTER. CHARLES G. JANSKY, Berwyn, Ill. Filed Oct. 18, 1926. Serial No. 142,171. 11 Claims. (Cl. 173—269.)

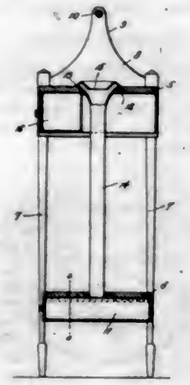


1. In an electrical connecter, a non-corroding body portion, having an opening thereinto, a threaded bore communicating therewith and providing a pocket below said opening, and a smaller bore leading from said pocket out of said body, an electrical conductor extending from said smaller bore into said pocket, and a non-corroding screw for clamping other conductors in contact with said first named conductor.

1,684,589. SMOKING STAND. OWEN C. KIRTS, Marion, Ohio. Filed Mar. 26, 1927. Serial No. 178,593. 1 Claim. (Cl. 131—51.)

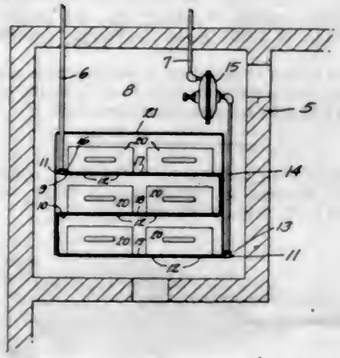
In a smoking stand including horizontal upper and lower spaced walls, and interconnecting supporting legs, the top wall being formed with an enlarged central opening, the

edge of which is beveled, the bottom wall being formed with a central smaller opening, a refuse receptacle slidably arranged beneath the bottom wall, a refuse pipe arranged vertically, the lower end of said pipe extending into the opening formed in the bottom wall of the stand, the upper



end of the pipe being flared for disposition in the enlarged central opening in the top wall of the stand, and a relatively U-shaped drawer slidably mounted beneath the top wall, the side forming arm portions of said U-shaped drawer being disposed on opposite sides of the refuse pipe.

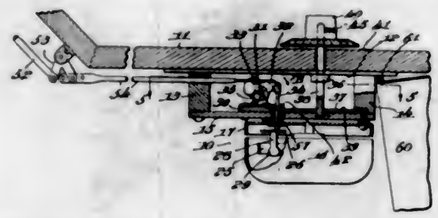
1,684,590. REFRIGERATOR FREEZING DEVICE. THOMAS J. LITLE, Jr., Detroit, Mich., assignor to Copeland Products, Inc., Detroit, Mich., a Corporation of Michigan. Filed June 12, 1926. Serial No. 115,687. 10 Claims. (Cl. 62—95.)



1. A refrigeration device comprising superposed sheets of metal having their edges sealed, said sheets being spaced apart to form an expansion chamber between them, and bent to form a plurality of platforms for the reception of liquid freezing trays.

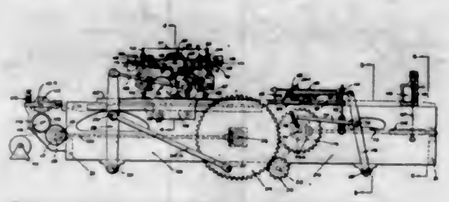
1,684,591. VEHICLE ALARM. ALBERT V. LOCKE, Belmont, Mass. Filed Feb. 2, 1926. Serial No. 85,593. 5 Claims. (Cl. 116—33.)

2. An alarm for vehicles comprising a mechanically operated bell; an emergency brake lever; a normally spring controlled rocking lever; a pin carried by said lever; a bell hammer; means to normally lock said hammer against operation; a disk having a blank spot and a plurality of perforations each side thereof arranged to be alternately positioned beneath said pin; a pin interposed between said first pin and said hammer locking means, and arranged to be operated by said first pin when one of said perforations is positioned beneath said first pin to unlock said hammer upon a movement of said brake lever; and means including a slotted link interposed between said brake lever and said



rocking lever whereby said brake lever may be operated regardless of the position of said rocking lever, and whereby said rocking lever may be actuated at times by said brake lever.

1,684,592. PRINTING PRESS. WILLIAM F. LUCK, Portland, Oreg., assignor, by mesne assignments, to Francis W. Chausse, Salem, Oreg. Filed Jan. 17, 1925. Serial No. 3,031. 7 Claims. (Cl. 101—23.)



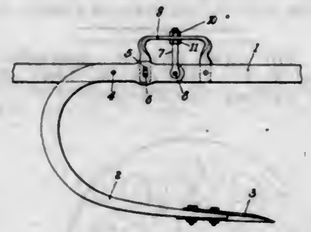
1. A web-pulling mechanism consisting of a bar slidably and transversely placed across a web; a shaft mounted on said bar; a plurality of clamping jaws on said shaft opposite said bar; a hinged track alongside of said slidable bar; an arm on said jaw-carrying shaft having a roller mounted thereon riding on said hinged track; a cam for rocking said jaw-carrying shaft; a crank for sliding said bar; and a printing mechanism adapted to print said web while said jaws are not gripping said web.

1,684,593. PAINT OR WATERPROOFING MATERIAL AND PROCESS OF PRODUCING THE SAME. FREDERICK W. MCRAE, Eagle Rock, Calif., assignor to McRae Paint Products, Inc., Los Angeles, Calif., a Corporation of California. Continuation of application Serial No. 154,045, filed Dec. 10, 1926. This application filed Mar. 13, 1928. Serial No. 261,416. 6 Claims. (Cl. 134—51.)

6. A process of the class described which comprises heating Trinidad type asphalt to a temperature maintained for a sufficient period of time to substantially complete the vaporization of the light oils of said asphalt, then adding to the hot asphaltic residual a cold petroleum distillate so as to immediately cool and dissolve the organic constituents and permanently suspend inorganic constituents of the asphaltic residue in said distillate and adding thereto a pigment.

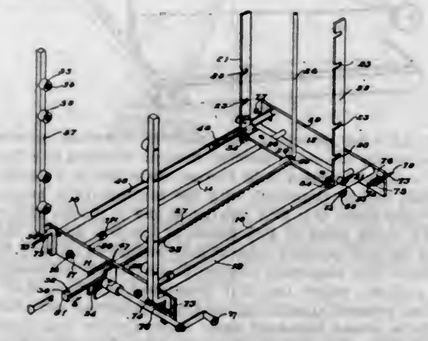
1,684,594. SOIL-WORKING IMPLEMENT. HANS OLSEN, Alslov, near Karise, Denmark. Filed July 5, 1927, Serial No. 203,639, and in Denmark July 13, 1926. 1 Claim. (Cl. 97—198.1.)

An adjustable fastening device for a soil-working implement, comprising, in combination a downwardly extending arm carrying the respective soil-working implement, a bolt by which said arm is hinged to a rearwardly extending part of the implement, a bow secured to said part, an adjusting and fixing bolt hinged at one end to the said arm and extending with its other end which is threaded through said bow, nuts located upon said threaded bolt end, and separate



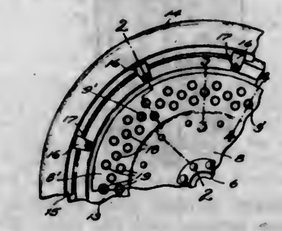
means for securing the said arm with its tool in its adjusted position substantially as and for the purpose set forth.

1,684,595. OVEN AND BROILER RACK HANDLING DEVICE. WILLIAM PARKE, New York, N. Y. Filed Oct. 26, 1925. Serial No. 64,840. 12 Claims. (Cl. 126—339.)



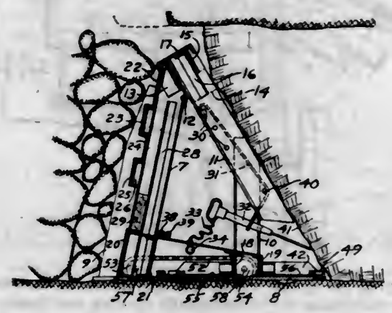
1. In an organization of the general character described: a plurality of substantially vertical food-support advancing arms secured at but one end and spaced apart upon a transversely extending member which is movable to and from the rear of an oven; and means for imparting movement to said member.

1,684,596. RESILIENT WHEEL. HARRY M. PATCH, Seattle, Wash. Filed June 8, 1927. Serial No. 197,287. 5 Claims. (Cl. 152—36.)



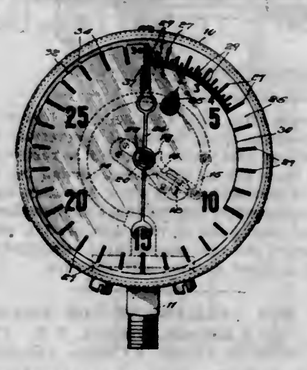
1. In a resilient wheel, the combination with a rigid hub member having spaced apart plate elements, and a rigid rim member having an annular plate element extending into the space between the plate elements of said hub member, of rubber rings located at opposite side of the rim element, each of said rings being arranged concentrally of the wheel axis to surround the latter said rubber rings and the plate elements of both of said rigid members being provided with protuberances and recesses whereby interengaging connection is had between the rubber rings and both of said rigid members to resiliently couple the same together.

1,684,597. LONG-WALL MINING SHIELD. ERSKINE RAMSAY, Birmingham, Ala. Filed Nov. 8, 1926, Serial No. 147,043. Renewed Feb. 18, 1928. 25 Claims. (Cl. 262—1.)



24. A portable shield adapted for use in an untimbered portion of a mine or other excavation, said shield having two oppositely-inclined sides, one of which is partially open and is opposed to the face to be worked upon, while the other one of said sides is closed, and is reinforced to withstand the pressure of material dislodged from the roof during the excavating operation.

1,684,598. DIAL. ALEXANDER D. ROSE, Chicago, Ill., assignor to Jas. P. Marsh & Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 30, 1926. Serial No. 84,907. 5 Claims. (Cl. 116—129.)

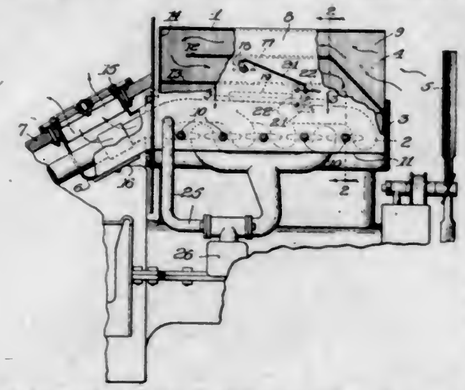


2. A dial having a series of radially disposed markings, symbols assigning values to said markings, and a line positioned adjacent the lower portions of only some of said markings, and a secondary line positioned adjacent the upper ends of a portion only of said markings, said lines contrasting different portions of the series from each other.

1,684,599. MOTOR-VEHICLE HEATER. ELMER RYDER, Berwyn, Ill. Filed Dec. 9, 1925. Serial No. 74,304. 3 Claims. (Cl. 257—2.)

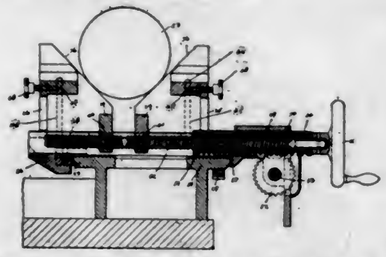
1. A motor vehicle heater having a casing adapted to be applied over the exhaust manifold of the vehicle engine, said casing having a cold air intake and a hot air outlet, partition means dividing the casing into a plurality of passages communicating with each other and with the intake and outlet, respectively, to increase the length of

travel of the air through the casing, a damper in one of said passages for controlling the flow of air through the casing, and a thermostat responsive to the temperature of



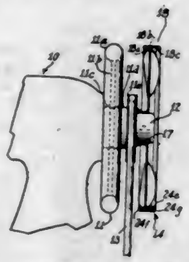
the air in the casing, and means connecting the thermostat with the damper for automatically opening and closing the same.

1,684,600. UNIVERSAL HOLDING CARRIAGE FOR TEST STANDS AND LATHES. JOSEPH C. SCHAF, Jr., Indianapolis, Ind. Filed Apr. 22, 1927. Serial No. 185,679. 5 Claims. (Cl. 248—15.)



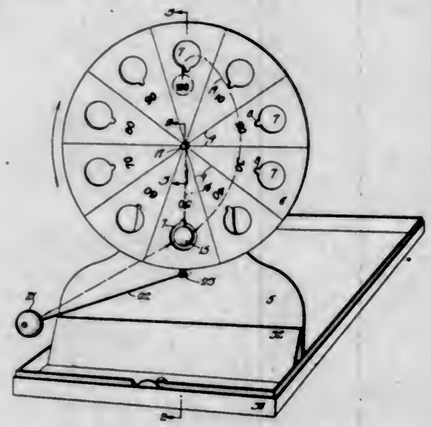
3. The combination with a frame and a pair of slidably supported complementary blocks, of a reversely threaded screw for moving said blocks as a unit or relative to each other, each block having a threaded portion for engaging said screw, a bearing for said screw rotatably supporting the same but preventing longitudinal axial movement therebetween, and means for moving said bearing and screw longitudinally of the axis comprising a rack rigid with the bearing and a pinion meshing with the rack.

1,684,601. FAN ATTACHMENT FOR SEWING MACHINES. DAVID SHPATER, Brooklyn, N. Y. Filed Dec. 4, 1925. Serial No. 73,155. 3 Claims. (Cl. 230—246.)



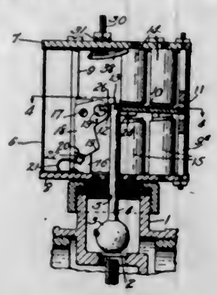
1. A fan of the character described made of a single piece of sheet material cut, bent and folded to form gripping means adapted to frictionally clamp the fan to a drive shaft, spaced fan blades extending on opposite sides of the plane of said sheet material, and a guard member extending about said blades to protect against accidental contact therewith as and for the purpose described and specified.

1,684,602. TOY GAME DEVICE. ALEXANDER SPITZER, Brooklyn, N. Y. Filed Dec. 16, 1927. Serial No. 240,373. 5 Claims. (Cl. 273—98.)



1. In a toy device of the character described, a panel, an aperture therein, a pendent element attached to a flexible cord and adapted to be thereby suspended in a position behind and in alignment with the said aperture, another aperture above that first mentioned and so spaced with respect to the point of attachment of the said flexible cord, that the said pendent element may be thrown upward and brought into alignment therewith, an elastic cord secured at a point below the first mentioned aperture, and a striker element attached at the free end thereof and adapted to be drawn backward under tension of the said elastic cord, and upon release to strike the aforesaid pendent element.

1,684,603. VALVE. HENRY L. STEPHENSON, Buffalo, N. Y. Filed June 3, 1927. Serial No. 196,204. 11 Claims. (Cl. 137—139.)



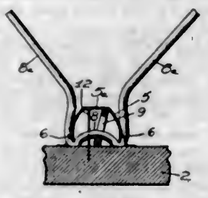
1. An electrically operated valve, comprising a valve element movable between open and closed positions, a pivoted armature connected to said valve element to cause movement of the latter between said positions, electromagnetic means disposed to attract said armature alternately between open and closed positions, a lever pivoted adjacent the armature for oscillation upon an axis parallel to the axis of oscillation of the armature, said lever having in its edge nearest the armature a notch embracing a portion of the armature, whereby the armature will rock in said notch and cause oscillation of said lever in either direction, and a spring device acting upon said lever to bias it and said armature in either direction from an intermediate position, whereby the armature and valve element will be yieldingly biased into either open or closed position.

1,684,604. CUSHION COVERING FOR MOP HANDLES. LORETTA STOESSEL, Ottumwa, Iowa. Filed Feb. 16, 1928. Serial No. 254,735. 2 Claims. (Cl. 15—246.)



1. A protective cover for mops comprising a sleeve adapted to fit over the handle of a mop, and an extension at the lower end of said sleeve adapted to engage over the head portion of the mop to protect furniture against which the mop may come in contact.

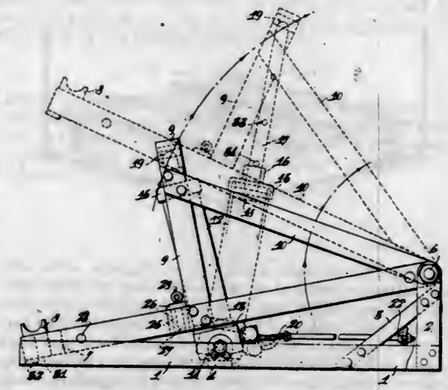
1,684,605. BUILDING CONSTRUCTION. EWALD F. TECHMER, Chicago, Ill. Filed Nov. 22, 1926. Serial No. 150,100. 3 Claims. (Cl. 72—105.)



1. A building construction, comprising a concrete ceiling having a plurality of cup-shaped metal forms embedded in the lower surface thereof, certain of said forms being in axile alignment, a U-shaped anchor for each form, said anchor having a central bowed portion disposed within the form, and angularly disposed guide portions above and to one side of the top of the form, and a suspending loop carried by said central portion.

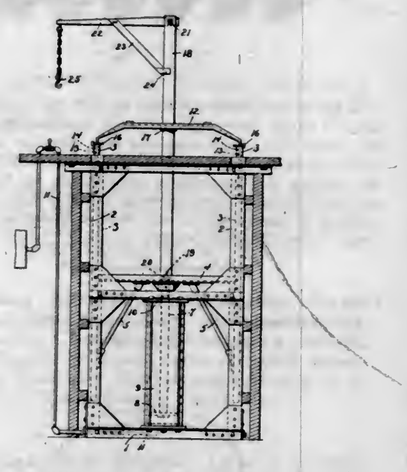
1,684,606. HOIST. EDWARD ADAM THIELEN, Dorrance, Kans. Filed Apr. 8, 1926. Serial No. 100,753. 4 Claims. (Cl. 254—93.)

1. A hoist of the class described comprising a base frame, a lifting frame including side bars and being pivoted to said base frame, means for elevating and lowering the lifting frame, and a U shaped frame pivoted to the free ends of and between the side bars in position for being extended beyond the ends of said bars or folded back between said bars to



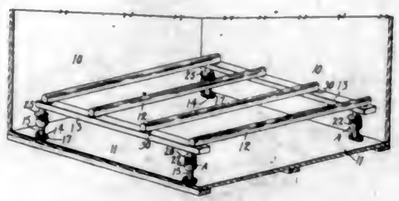
form a lifting frame cross extension or an open space between the side bar free ends accordingly as said U shaped frame is extended or folded back.

1,684,607. HOIST. EDWARD ADAM THIELEN, Dorrance, Kans. Filed Sept. 15, 1927. Serial No. 219,641. 5 Claims. (Cl. 212—34.)



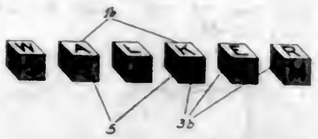
1. In a device of the class described wherein is provided a pair of stationary vertical guide standards, a vertically movable lifting unit including slide standards slidably carried by said guide standards, and slide operating means cooperative with the aforesaid structure to lift and lower said lifting unit; said lifting unit's slide standards having sockets in their upper ends, a U-shaped bridge member having portions adapted to be removably received in said sockets, said bridge member having an opening through the same, a brace member connecting said guide standards having a thrust bearing in alignment with said U-shaped member's opening, and a post provided with a collar and projecting through said opening and bearing with the collar resting on said bridge member, and a derrick arm carried by said post, said post adapted to swivel on its axis for the purposes specified.

1,684,608. ROOST. HENRY F. THUMANN, Redfield, Ark. Filed Nov. 5, 1926. Serial No. 146,408. 11 Claims. (Cl. 119—25.)



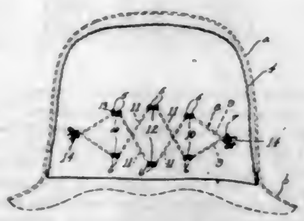
1. In a chicken roost, a plurality of supports, cross bars, roost members mounted on and connecting the cross bars, said cross bars being rested upon said supports, said roost members being supported on and spaced from the cross bars by spacer members having holes through them and slots in their walls extended through said holes and by fastening means extending from the roost members through the holes through the cross bars.

1,684,609. SET OF DICE. WILLIAM D. WALKER, Sacramento, Calif. Filed Dec. 14, 1926. Serial No. 154,706. 1 Claim. (Cl. 273—146.)



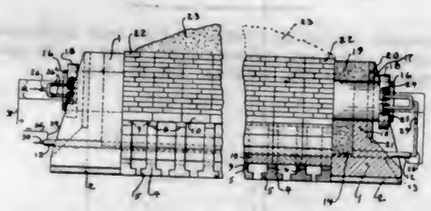
A set of dice, different face of each die having letters thereon which, with the letters on corresponding faces of the other dice, form complete and different words, the letters being such that when the dice are arranged to expose the spelling of a preselected word on the top faces of the dice the side and front faces of the dice will expose the spelling of words which will read in sense making continuity with the first words.

1,684,610. ADJUSTABLE HAT LINING. LELA B. WEIR, Los Angeles, Calif. Filed Oct. 8, 1927. Serial No. 224,793. 3 Claims. (Cl. 2—190.)



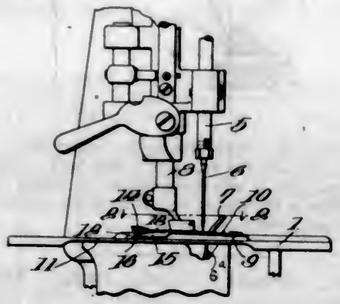
1. An adjustable hat lining comprising a cup-shaped body of limp lining material, and a draw string slidably connected with said body, a portion of said draw string being connected with the body at a higher level than another portion of said draw string so that tightening of the draw string will reduce the depth of the body.

1,684,611. ELECTRIC FURNACE FOR PRODUCING SILICON CARBIDE. HAROLD E. WHITE, Anniston, Ala., assignor to Federal Abrasives Company, Birmingham, Ala., a Corporation of Alabama. Filed Sept. 4, 1925. Serial No. 54,562. 15 Claims. (Cl. 266—16.)



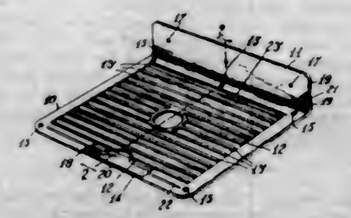
1. An electric furnace of the character described, comprising a hearth, spaced concrete supports for said hearth, and concrete end walls for the furnace free of fixed connection to the hearth supports.

1,684,612. THREAD CUTTER FOR SEWING MACHINES. HARRY L. WILLIS, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1925. Serial No. 8,467. 7 Claims. (Cl. 112—252.)



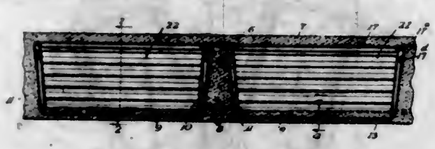
1. The combination with a cloth plate, a needle, a feed dog and a presser foot, of a combined thread cutter and thread clamp secured to the cloth plate and located in rear of the presser foot and at one side of the line of feed whereby when the stitched article is swung on the cloth plate in the usual manner toward the front of the machine, the stitching threads are drawn beneath the thread clamp and against the thread cutter for severing the threads.

1,684,613. AUTOMOBILE STEP PLATE. OLIVER C. RITZ WOLLER, Chicago, Ill. Filed Aug. 5, 1927. Serial No. 210,740. 10 Claims. (Cl. 280—169.)



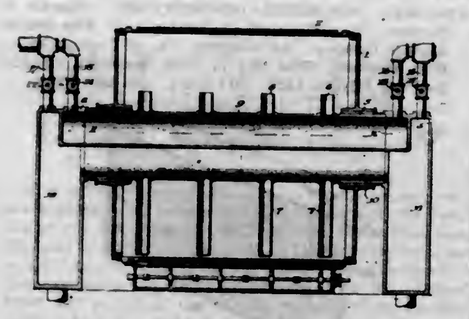
1. An automobile step plate, comprising in combination a metal frame having an upstanding portion along the rear edge, a mat secured in said frame, and a metal reinforcing member at the angle between said frame and said upstanding portion in spaced relation thereto and having bearings thereon for providing a truss arrangement therewith.

1,684,614. FORM FOR CONCRETE. FRANCIS M. BARTON, Chicago, Ill., assignor to Barton Spider Web System, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1926. Serial No. 143,873. 12 Claims. (Cl. 72—66.)



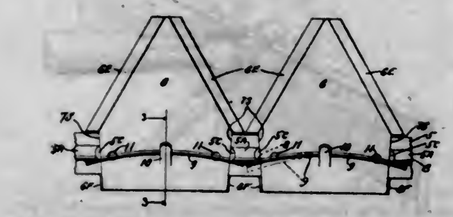
1. A sheet metal form for concrete comprising a bottom and sides having a continuous series of corrugations extending upwardly in and to the upper edges of the sides, a cover consisting of a sheet of metal provided with marginal flanges having a continuous series of corrugations conforming to and fitting the corrugations in and lapping the sides.

1,684,615. VACUUM PIPE CONNECTION FOR CYLINDER MACHINES. EARL E. BERRY, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed June 13, 1923. Serial No. 645,028. 23 Claims. (Cl. 92—43.)



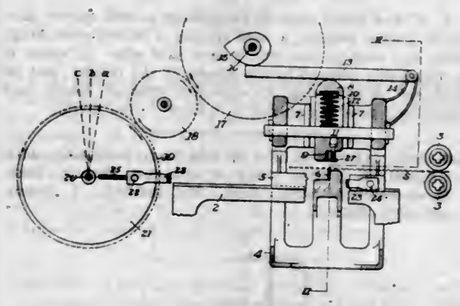
1. A machine of the class specified having a hollow rotary member and a supporting shaft therefor, said shaft being divided into separate compartments, one of which is for forming communication to the upper part of the cylinder for withdrawing air, and the other of which is for withdrawing water from the lower part of the cylinder, and separate air pipes communicating with said separate compartments.

1,684,616. SICKLE-BAR SECTION. FRANK J. BICEK, Le Sueur Center, Minn. Filed Apr. 1, 1927. Serial No. 180,133. 3 Claims. (Cl. 56—300.)
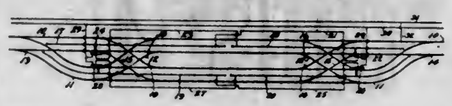


1. In a sickle bar section a reciprocable bar having a series of flat recesses tapered transversely of the bar and in its upper face, a cutting blade for each said recess and having a correspondingly tapered shank adapted to be frictionally and removably retained in said bar, a longitudinal rib on the top of said bar, a lug in the upper central part of each blade and means engaging said lug and the adjacent parts of said rib for pressing and retaining each said blade in the tapered recess.

1,684,617. FLYING SHEARS. FLORENCE C. BIGGERT, Jr., Crafton, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 21, 1923. Serial No. 620,394. 5 Claims. (Cl. 164—49.)
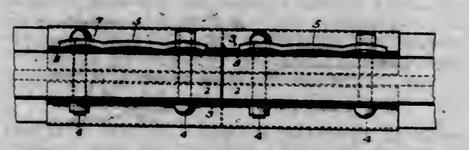


1. Shearing mechanism, comprising shearing means adapted to reciprocate relative to a moving material to shear the material into lengths, a pivoted cam following lever on the reciprocating means, and a cam for actuating the lever to effect a shearing stroke of the shears.

1,684,618. SAFETY-SWITCH SYSTEM. WILLIAM C. DAVIS, Jr., Jasper, Ala. Filed Mar. 18, 1927. Serial No. 176,476. 8 Claims. (Cl. 246—219.)



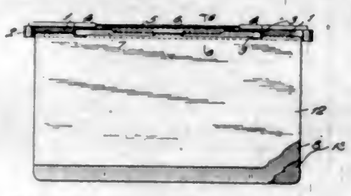
1. In a safety switch system, the combination with separate tracks and a normal switch connecting the same, oppositely disposed cross-over tracks extending between the separate tracks, and train controlled switches at the entrance to each of said cross-over tracks.

1,684,619. RAIL-JOINT SPRING. LOUIS E. ENDSLEY, Pittsburgh, Pa., assignor to Verona Tool Works, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 13, 1927. Serial No. 219,272. 17 Claims. (Cl. 238—259.)



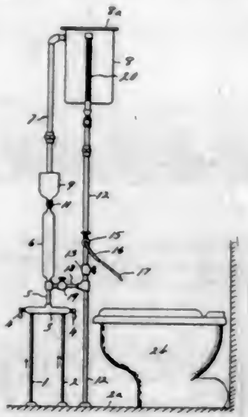
1. A rail joint spring comprising a longitudinally curved bar, the bar material being of varying thickness across its width.

1,684,620. CARD INDEX. SAMUEL L. FORBES, Mount Vernon, N. Y., assignor to The Globe-Wernicke Company, a Corporation of Ohio. Filed June 5, 1924. Serial No. 717,922. 3 Claims. (Cl. 129—16.7.)



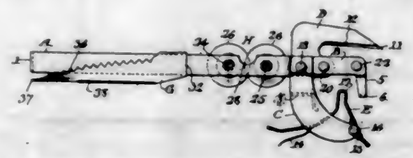
2. A card index element comprising a card carrier having a groove therein, a card having a turned-over flange along one edge of less length than said edge, by which it is detachably secured in the groove of the carrier, and an auxiliary card having an aperture through which said flange may pass and anchor both cards to the carrier.

1,684,621. APPARATUS FOR RECTAL, VAGINAL, AND SURGICAL USES. JEAN M. FULTON, Detroit, Mich. Filed Feb. 20, 1928. Serial No. 255,517. 5 Claims. (Cl. 128—227.)



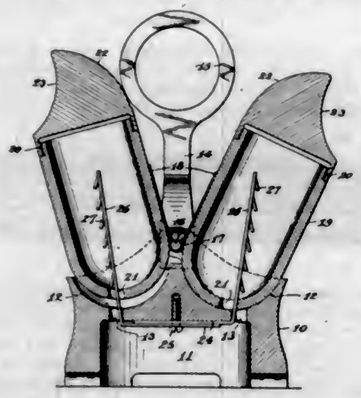
1. In an apparatus of the character described, the combination with an elevated tank, of a water supply pipe opening into said tank, means for introducing into said pipe a substance for delivery to said tank, a discharge pipe leading downwardly from said tank, a fitting providing for a lateral flow from said discharge pipe, a valve controlling the discharge pipe below the fitting, and a valve controlling said fitting.

1,684,622. COMBINATION KITCHEN UTENSIL. FERRIS P. HARKER, Bridgeport, Conn. Filed Feb. 18, 1926, Serial No. 89,166. Renewed Aug. 1, 1928. 4 Claims. (Cl. 7—1.)



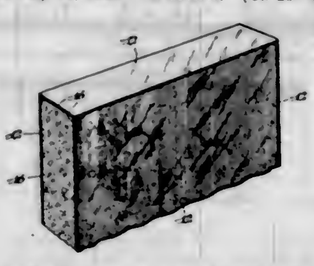
1. A combination tool comprising a body portion, a member attached thereto and having a portion bent at an angle to the body, jaws carried by the body portion, and an element pivotally supported by said jaws and coacting with said bent portion to form a vessel lifter and a cap remover.

1,684,623. DISPENSING DEVICE. CHARLES W. HARTWIG, Hastings upon Hudson, N. Y. Filed Dec. 2, 1927. Serial No. 237,174. 6 Claims. (Cl. 65—57.)



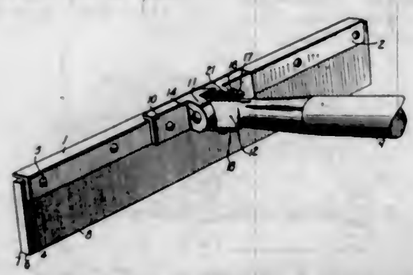
1. A dispensing device comprising a perforated base, a pair of perforated containers movably mounted on said base and a spring member disposed between said containers for normally keeping said perforations out of alignment and for permitting said perforations to be moved into alignment and to prevent lateral rocking of said containers.

1,684,624. CONCRETE CONSTRUCTION. HAROLD P. HAYDEN, Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed May 17, 1926, Serial No. 109,522. Renewed July 16, 1928. 10 Claims. (Cl. 25—154.)



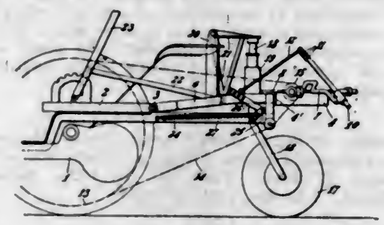
1. The method of curing concrete and stabilizing its water content which comprises completely and imperviously sheathing it, when poured, in a permanent bituminous covering.

1,684,625. WIPER. NEWTON S. HILLYARD, St. Joseph, Mo. Filed Oct. 28, 1927. Serial No. 229,453. 7 Claims. (Cl. 15—245.)



1. In a cleaner having a wiper-supporting head, a ferrule pivotally connected with the head, and adjustable members independently movable longitudinally on the ferrule and alternately engageable with the head upon opposite pivoting of the ferrule for limiting the pivoting of the ferrule on the member.

1,684,626. HARVESTING MACHINE WITH SCATTERER. THEODOR HINTERMANN, Bern, Switzerland. Filed Apr. 3, 1926, Serial No. 99,679, and in Switzerland Apr. 9, 1925. 2 Claims. (Cl. 56—371.)



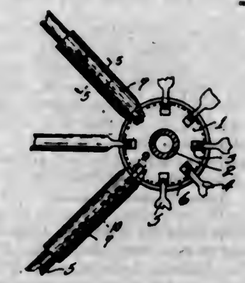
1. In combination with a harvesting machine a scatterer, comprising a frame carrying the scattering members and pivoted to said harvesting machine frame, said frame having unequal sides, a caster supporting the longer side of said frame, a supporting arm secured to said harvesting machine frame, and a spring controlled toggle joint connecting said supporting arm and the shorter side of said frame.

1,684,627. APPARATUS FOR DRYING WOOD. JOHN F. HOPE and JOHN T. HOPE, Kansas City, Mo. Filed July 19, 1926. Serial No. 123,273. 3 Claims. (Cl. 34—46.)



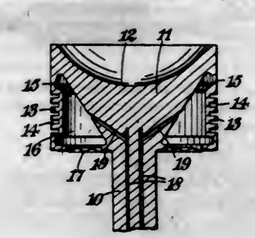
1. A wood drying kiln open at its front and rear ends and provided near its ends with side openings, the front end of the kiln being of greater cross-sectional area than the body portion, doors controlling the side openings, one or more suction fans at the rear end of the kiln to exert suctional force therein, a heating device in the enlarged front end to retard the passage of air drawn into the front end by the suctional action to a sufficient degree to insure the production of a vacuous condition in the kiln back of said heating device when the doors are closed.

1,684,628. UMBRELLA. OLAUS JENSEN, Seattle, Wash. Filed Feb. 20, 1928. Serial No. 255,604. 3 Claims. (Cl. 135—20.)



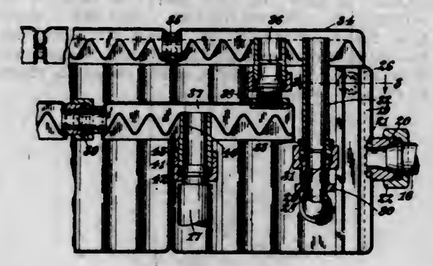
1. A repair sleeve for umbrella ribs having a notched end and spaced prongs thereon, combined with a lock bar adapted to engage said notched end, and means on the bar for engagement with an umbrella rib and said sleeve respectively.

1,684,629. PISTON FOR INTERNAL-COMBUSTION ENGINES. KARL OTTO KELLER, Sunderland, England, assignor to Robert Pile Doxford, Sunderland, England. Filed Feb. 1, 1926, Serial No. 85,238, and in Great Britain Nov. 19, 1925. 6 Claims. (Cl. 123—176.)



1. A piston for an internal-combustion engine, having a piston-head in the form of a massive block for conserving heat, which head is provided with a substantially cylindrical carrier for piston-rings, which carrier and piston-head are connected by a thin annular connection which, on the one hand, sufficiently connects them structurally together, but on the other hand provides for a restricted flow of heat from the crown of the piston towards the rings through the said connection.

1,684,630. LIQUID-HEATING DEVICE. ALBERT JOHN LAMBERT, London, England, assignor of one-half to The Lambert Heater & Engineering Company Limited, London, England, a British Company. Filed May 18, 1927, Serial No. 192,358, and in Great Britain May 2, 1927. 3 Claims. (Cl. 122—23.)



1. A heater comprising groups of interconnected cells forming sides of the heater, a plurality of individual cells arranged in a plurality of layers one above another at the top of the heater, said cells being of shallow rectangular form with flat exterior surfaces and corrugated inner surfaces, detachable connectors for connecting the individual cells and groups of cells and serving to support a lower layer of cells at the top of the heater from the layer of cells above said lower layer, the said detachable connectors for connecting the said layers of cells at the top of the heater and for connecting the said layers to other of the cells being also lengthwise adjustable, and said detachable connectors also serving to provide communication in series through the individual cells and groups of cells from one terminal point to another, an inlet connection for the cell at one terminal point, an outlet connection for the cell at the other terminal point, a frame for supporting the cells and a heating element carried by said frame beneath the cells.

1,684,631. BRUSH. WILLIAM LAPINOJA, Enumclaw, Wash. Filed Nov. 19, 1927. Serial No. 234,305. 1 Claim. (Cl. 15—206.)

The combination with a brush having a twisted wire stem, resilient shanks on said stem, and laterally projecting heads at the ends of said shanks, of a separable

handle having a fixed ferrule with oppositely disposed sockets in its wall to receive said heads, and a transversely extending U-shaped resilient spreader located in



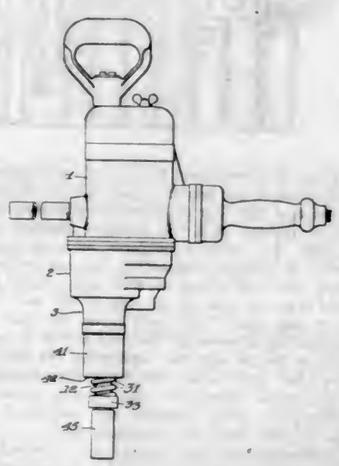
the path of said heads having its ends anchored in the ferrule and adapted to project said heads through the walls of the ferrule.

1,684,632. LINK FOR ANTISKID CHAINS. EDWARD LA PLANT, Arlee, Mont. Filed May 31, 1927. Serial No. 195,315. 1 Claim. (Cl. 59—90.)



In a chain link, a continuously formed upstanding rib arranged on one face of the link and constituting a ground gripping element and including a section extending transversely of the link and terminating in relatively short end sections extending at right angles therefrom in opposite directions and substantially parallel with the sides of said links and formed integrally with the chain link.

1,684,633. SCREW OR NUT DRIVING DEVICE FOR PORTABLE POWER-DRIVEN ROTARY TOOLS. AXEL LEVERDAHL, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 23, 1927. Serial No. 221,602. 13 Claims. (Cl. 81—54.)



1. In a portable power driven rotary tool, the combination with the tool spindle, of a screw or nut driving device comprising a shaft rotatably supported by said spindle, main and supplemental clutches for said shaft and spindle, said clutches consisting of separable clutch members having co-operating clutch teeth, and means permitting the teeth of the supplemental clutch to slip to release the shaft from the spindle as soon as the screw or nut becomes set.

1,684,634. CATALYTIC DEHYDROGENATION. MARTIN LUTHER, KURT PIEROH, and ERICH KRANEPUHL, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 27, 1926, Serial No. 151,244, and in Germany Nov. 30, 1925. 3 Claims. (Cl. 260—172.)

1. The process of catalytically dehydrogenating organic compounds which consists in passing the vapors of the said compounds at an elevated temperature over a catalyst comprising a compound of a metal with a metalloid alone selected from the fifth and sixth group of the periodic system having an atomic weight between 31 and 209.

1,684,635. PENCIL. JOHN P. LYNN, Chicago, Ill., assignor to Autopoint Products Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 14, 1924. Serial No. 685,942. 4 Claims. (Cl. 120—117.)



1. A pencil having, in combination, a body wherein is fomed a chamber for accommodating reserve leads, also an axial bore through which an active lead may be moved from the chamber through to the lower end of the body, a hollow tip rotatably connected with the body, and means for propelling the active lead through the axial bore and out through the tip with rotation of the latter relative to the body, said means including also an agitator extending into the reserve lead chamber and adapted to facilitate a successive transfer of leads therein into central position for travel through the axial bore of the pencil, substantially as described.

3. A pencil having, in combination, a body with which is associated a rotatable hollow tip, means within the tip for advancing a lead therethrough comprising a reciprocable lead gripping device, friction means engaging yieldingly with said device, and means operatively connected with both the body and tip adapted with rotation of one relative to the other in a single direction to reciprocate said device and move the same into lead gripping position, substantially as described.

1,684,636. ANTIRATTLING DEVICE FOR WINDOWS. JAMES H. MENDENHALL, Nottingham, Pa. Filed Jan. 8, 1926. Serial No. 79,962. 1 Claim. (Cl. 292—74.)

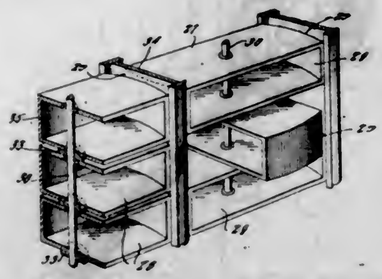
An antirattling device for windows comprising a casing adapted to be secured to a window frame adjacent a slidably mounted window glass, said casing comprising a flat plate, a removable chambered section secured to one side of said plate, hollow rivets attaching the chambered section to the plate, a window engaging member slidably mounted

in the chamber of the chambered section, spaced coiled springs engaging the bottom of the chamber of the chambered section, the ends of said springs being disposed in recesses in the inner side of the window engaging member,



the opposite side of the window engaging member being convexed, flanges extending towards each other and carried by the chambered section at opposite ends of the chamber therein and lugs carried by the ends of the window engaging member in the path of said flanges.

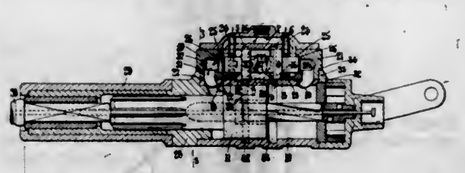
1,684,637. SELF-SERVICE-STORE FIXTURES FOR VENDING MERCHANDISE. JOHN T. MYERS and JAMES H. CARROLL, West Palm Beach, Fla. Filed Mar. 17, 1926. Serial No. 95,407. 2 Claims. (Cl. 312—157.)



1. In self-service store fixtures, the combination of tiers of revoluble shelving, each unit of said shelving comprising a central post, a plurality of super-posed box-like structures open on one side to provide shelving and revolubly mounted on the post, each of said box-like structures being independently revoluble in either a right-hand or a left-hand direction, and each of said structures having opposite rounded ends revoluble past vertical partitions between adjacent units of the tiers of shelving.

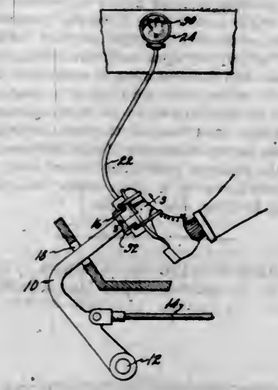
1,684,638. PERCUSSIVE ROCK DRILL. ERNEST PENBERTHY, Redruth, Cornwall, England, assignor to The Climax Rock Drill & Engineering Works Limited, London, England, a Company of Great Britain. Filed Mar. 24, 1927, Serial No. 178,028, and in Great Britain Apr. 21, 1926. 8 Claims. (Cl. 121—28.)

1. In a percussive rock drill a cylinder, said cylinder having two inlet ports one at each end thereof, said cylinder having two exhaust ports spaced apart and intermediate said inlet ports, said cylinder having passages therein, one passage leading from one exhaust port to a point outside said cylinder between the second exhaust port and the inlet port nearest thereto whilst the second passage leads from the second exhaust port to a point outside said cylinder between the first exhaust port and the inlet port nearest thereto, a hammer piston working in said cylinder, said hammer piston being adapted during its operation to control the opening and closing of said exhaust ports, a valve chamber mounted on said cylinder, said valve chamber having an inlet port and an exhaust port and passages leading from the inlet port in said valve



chamber to the inlet ports in said cylinder, said exhaust port in said valve chamber being adapted to be brought alternately into communication with the exhaust ports in said cylinder, and a valve member in said valve chamber, said valve member consisting of a tubular member and two spools mounted on said tubular member, said tubular member and spools being adapted to control the passages of said valve chamber and the exhaust ports of said cylinder, said valve chamber having small air vents therein.

1,684,639. BRAKE PRESSURE GAUGE. ROY S. SANFORD, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1927. Serial No. 171,504. 1 Claim. (Cl. 265—47.)



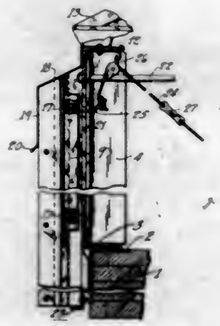
A motor vehicle having a brake pedal and a dash in combination with apparatus for registering the pressure applied to the pedal by the foot of an operator comprising a pressure gauge mounted on the dash, a pressure pad mounted upon the pedal and communicating means extending from the pad to the gauge to register on the gauge the pressure applied to the pad.

1,684,640. PURIFYING ORGANIC COMPOUNDS CONTAINING OXYGEN. OTTO SCHMIDT, KARL SEIDEL, and ALBERT FELLER, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed June 9, 1926, Serial No. 114,830, and in Germany June 18, 1925. 3 Claims. (Cl. 260—156.)

1. The process of purifying oxygen-containing organic compounds of a higher order than methanol obtainable by the catalytic hydrogenation of oxids of carbon which con-

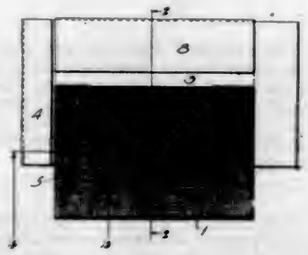
sists in treating the said products in the vapor phase with hydrogen at a temperature of at least 50° C. but below that at which decomposition of the organic compounds under treatment would set in in the presence of a hydrogenating catalyst.

1,684,641. SKYLIGHT. WILLIAM SCHWARTZ, St. Louis, Mo. Filed June 3, 1925. Serial No. 34,623. 2 Claims. (Cl. 108—16.)



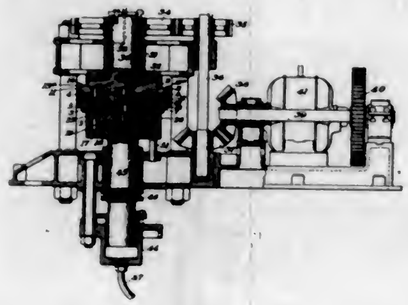
1. In a skylight, a base curbing having an anchor member thereon, a frame comprising a horizontal angle member secured to said anchor member, uprights comprising angle members secured to said horizontal member, a second horizontal angle member secured to the upper end portions of said upright angle members, a fixed top mounted on said second mentioned horizontal angle member, said top comprising a multiplicity of frame members having glass panels secured thereon and therebetween, a series of box-like sheet metal mullions secured to said upright angle members, said mullions having slideways in their opposed sides, a series of box-like sheet metal closures having marginal flanges working in the slideways of said mullions, and cords secured to said closures and being passed over pulleys on said frame and down to a place below the skylight for operating and holding said closures.

1,684,642. HAIR-WAVING EQUIPMENT. WILLIAM G. SHELTON, St. Louis, Mo. Filed May 31, 1928. Serial No. 281,837. 10 Claims. (Cl. 132—36.2.)



1. Hair waving equipment comprising a wrapping sheet, and an absorbent pad attached near its median line to said sheet near one edge of the latter so that the portion of said pad projecting beyond the edge of said sheet may be dipped into a solution with both faces exposed and without dipping said sheet into the solution.

1,684,643. METHOD OF MAKING COLD-ROLLED ARTICLES. EDWIN E. SLICK, Pittsburgh, Pa. Filed Apr. 21, 1922. Serial No. 555,867. 4 Claims. (Cl. 80—60.)



1. In the method of cold-rolling circular articles, the steps comprising supporting the article to be rolled and subjecting at least one side face thereof to the substantially uniform action of independently movable floating rollers traveling concentrically over the article.

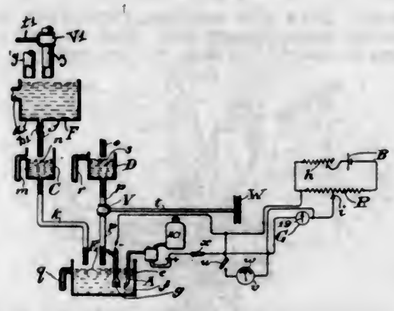
1,684,644. TOILET-POWDER APPLICATOR. ANDREW W. SMITH, Des Moines, Iowa. Filed July 16, 1927. Serial No. 206,291. 4 Claims. (Cl. 132—78.5.)



1. In a device of the class described, a body member having an opening in one of its sides for holding powder, an outwardly extending peripheral flange on the marginal edge of the side having the opening, and cloth fabric secured to said body portion and extending over said face and opening.

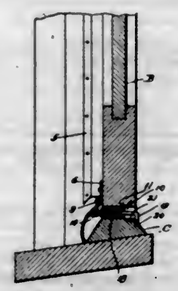
1,684,645. ION CONCENTRATION CONTROL. IRVING B. SMITH, Ambler, and EARL A. KEELER, Norristown, Pa., assignors to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 3, 1922. Serial No. 526,832. 35 Claims. (Cl. 23—230.)

1. In the utilization of changes of ion concentration, the method which comprises producing a potential difference varying in magnitude with variations in ion concentration, magnifying the change in potential difference per unit change in ion concentration by admixing with the solution containing the ions involved a material whose quantity bears a predetermined ratio to the quantity of said solution and of such character as to change the ion concentration to a position on the potential-ion-concentration



characteristic such that the potential gradient is greater than that of the unmodified solution, and utilizing the magnified potential difference to control the ion concentration of the unmodified solution.

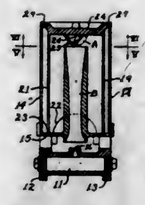
1,684,646. WEATHER STRIP. FRANK B. SNAVELY, Santa Monica, Calif. Filed Nov. 15, 1927. Serial No. 233,464. 2 Claims. (Cl. 20—65.)



1. In a weather stripping for doors comprising an elongated plate of transversely arcuate shape hingedly secured to the lower portion of a door, a latch member adapted for arrangement through an opening in the lower portion of the door, a horizontal pivotal connection between one end of the member and the hinged plate, the opposite end of the member being provided with a lateral projection, a collar on the member, an obstruction within the opening of the door, and a spring arranged between said collar and said obstruction to normally urge the latch member outwardly when the projection is released.

1,684,647. GAS BURNER. PHILIP J. SONNER, Winfield, Kans. Filed Nov. 28, 1927. Serial No. 236,221. 3 Claims. (Cl. 158—106.)

1. In gas burners, a box-like element including four side members and a bottom member; a tubular element integral with and vertically arranged as a part of the bottom member and extending more above than below said bottom; a cover element having a depressed central portion and upwardly and outwardly flaring edge portions, an inverted four-sided element integral with the base of said cover and having corner edge portions in a supporting contact upon the bottom of the first element, openings intermediate said corner edge portions and slots intermediate the cover and the upper edges of the first element;



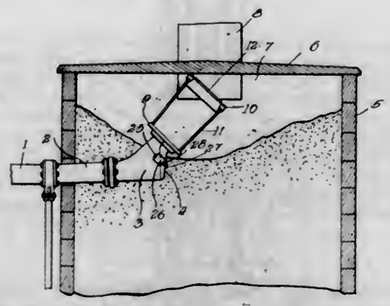
and a spirally ribbed member integral with and depending from the under side of said cover arranged above the tubular element.

1,684,648. HAIR-UNDULATING TONGS. ANDERS TINGBERG, Skien, Norway. Filed Dec. 8, 1926, Serial No. 153,434, and in Norway Dec. 12, 1925. 2 Claims. (Cl. 132—32.)



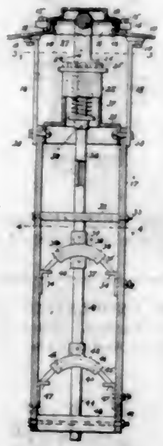
1. Hair undulating tongs, comprising, in combination with the grips and the legs of the tong body members, a gutter-like undulating member attached to one of said body members; another gutter-like undulating member attached to the other body member and adapted to be placed into the first-mentioned undulating member and having a longitudinal slot in its bottom; a ledge located in said slot and resting upon the bottom of the first-mentioned undulating member; transverse walls in the second undulating member; a shaft extending through this member and located in said walls; a cam affixed to said shaft and bearing on said ledge; means for turning said shaft with said cam; a slide located over said second undulating gutter; and spikes extending from the edges of said slide towards the other undulating gutter, substantially as set forth.

1,684,649. CONVEYING APPARATUS. EDGAR B. TOLMAN, Jr., Chicago, Ill. Filed July 5, 1924. Serial No. 724,472. 6 Claims. (Cl. 302—59.)



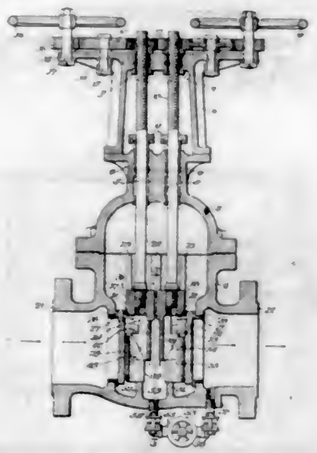
1. In a conveying apparatus of the kind described and in combination, a discharge fitting arranged with the outlet directed upwardly at an angle to the vertical and a target arranged in and transversely to the path of the material discharged from said outlet but spaced therefrom.

1,684,650. TAP CHANGER. GEORGE H. TUTTLE, Warren, Ohio, assignor to The Packard Electric Company, Warren, Ohio, a Corporation of Ohio. Filed June 2, 1927. Serial No. 195,973. 9 Claims. (Cl. 200—4.)



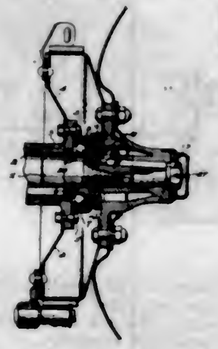
1. In a transformer, a tank having an opening therein, a removable cover adapted to be secured thereto, a tube of insulating material supported within said tank, a plurality of contacts mounted on the inside of said tube, an axially movable and rotatable rod arranged within said tube, a brush carried by said rod, and arranged to engage said contacts, a handle secured to said rod, cooperating means carried by said tube and said handle within the tank for locating said brush in its different positions, said cover when in closed position being adapted to hold said rod against axial movement.

1,684,651. VALVE. CHARLES A. G. WAYMAN and ADOLPH F. GARTZ, Jr., Chicago, Ill., assignors to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed July 14, 1926. Serial No. 122,285. 5 Claims. (Cl. 251—68.)



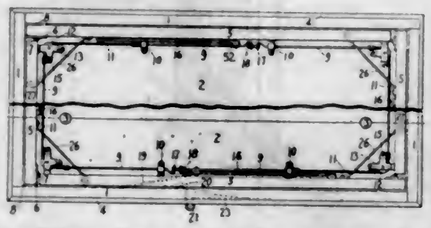
4. The method of operating a gate valve having independently operable inlet and outlet gates and a by-pass valve connection opening into said valve between said gates comprising, opening said by-pass valve connection to relieve built-up pressure between said gates, opening the outlet gate while the inlet gates remains closed, and thereafter opening the inlet gate.

1,684,652. AXLE AND BEARING THEREFOR. JOHN WILLIAM WHITE, Detroit, Mich. Filed Apr. 17, 1922. Serial No. 554,074. 1 Claim. (Cl. 308—187.)



In combination, an axle shaft having a tapered portion, a bearing having a tapered inner race ring adapted to fit over said tapered portion and to be held against movement in one direction on said shaft by said tapered portion, a hub on said shaft and a compressible member rigidly held between said hub and said bearing to hold said bearing against movement on said shaft in the opposite direction.

1,684,653. FOLDABLE TABLE. BENEDICT E. WILLETT, Dayton, Ohio. Filed Feb. 15, 1924. Serial No. 692,980 19 Claims. (Cl. 45—116.)



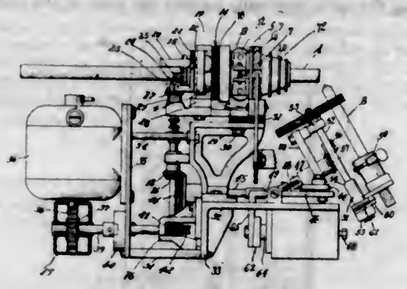
19. A table comprising a top, legs pivotally mounted on said top and adapted to be folded onto the same, an actuating bar for each leg slidably mounted on said top, means for connecting said actuating bars with the respective legs, and means cooperating with each actuating bar to lock the corresponding leg against outward movement beyond its extended position.

1,684,654. SOYA-BEAN FLOUR AND PROCESS OF PRODUCING THE SAME. GEORGE ALBERS, Seattle, Wash. Filed Nov. 14, 1925. Serial No. 69,198. 5 Claims. (Cl. 83—42.)

1. A process for making soya bean flour comprising comminution of soya bean cake, followed by drying, further comminution, additional drying, and pulverization.

1,684,655. ARC LAMP. CLARENCE S. ASHCRAFT, Los Angeles, Calif. Filed Sept. 19, 1923. Serial No. 663,569. 10 Claims. (Cl. 176—51.)

1. In an arc lamp having a positive electrode, a negative electrode, and means for advancing the electrodes, the combination of: an arc striking means comprising a negative electrode carriage so disposed as to normally hold said negative electrode separated from said positive electrode by the weight of said carriage; and electro-magnetic means operative by the throwing on of the arc circuit for



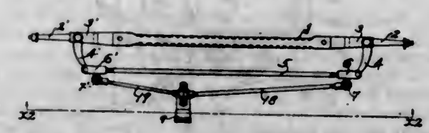
striking said negative electrode against said positive electrode, the striking of the arc being effective to reduce the strength of the pull of said electro-magnet whereby the weight of the carriage will cause it to fall back to normal operating position.

1,684,656. GASKET. CLAUDE B. BAILEY, Wyandotte, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a Corporation of Maine. Filed June 15, 1925. Serial No. 37,039. 4 Claims. (Cl. 288—1.)



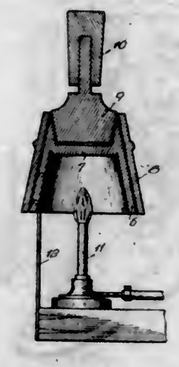
1. A gasket made entirely of sheet metal and consisting of two separate annular sheet metal sections, each section having a tubular guide portion and an outwardly projecting lateral flange at the base of the guide portion, said sections being arranged one above the other with their base flanges in overlapping contact and with their guide portions projecting outwardly on opposite sides of the same, one of said base flanges being formed wider than the other and having its outer marginal portions bent over the outer edge of the other base flange and in contact therewith and extending across the same for holding the two sections of the gasket assembled by clamping their base flanges together, said base flanges and the folded marginal portion of one of the same forming the pressure receiving section of the gasket entirely of sheet metal and surrounding the tubular guides on one side of said base flanges.

1,684,657. SAFETY STEERING MECHANISM FOR AUTOMOBILES. GEORGE E. BEAL, Pasadena, Calif. Filed Mar. 24, 1924. Serial No. 701,419. 3 Claims. (Cl. 280—95.)



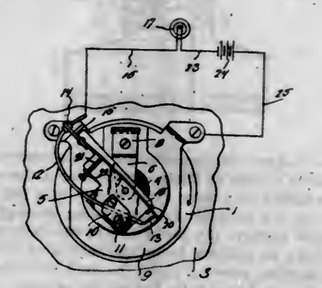
1. In combination with a steering apparatus for automobiles, a connecting arm; an auxiliary connecting arm, said arms having threaded ends; a steering arm; swivel balls on opposite sides of the free end of said steering arm and in the same vertical medial line; socketed members to engage said swivel balls; a threaded orifice in said socketed members opposite said sockets adapted to receive the threaded ends of said connecting arm and auxiliary connecting arm to form an auxiliary steering apparatus.

1,684,658. METHOD OF AND APPARATUS FOR FORMING ARTICLES. ROBERT BEARDSLEY, Chicago, Ill. Filed Nov. 30, 1923. Serial No. 677,719. 2 Claims. (Cl. 193—1.)



1. In apparatus for forming articles from parchmentized material, paper and the like, a mold comprising an inner member around which a sheet of such material may be wound, said inner member having a depression in its top, a tubular shell adapted to surround said inner member and adapted to seat on said sheet, a plug removably fitting into said depression to clamp a portion of the sheet betwen itself and the surrounding wall of said depression, and means for heating said inner member.

1,684,659. SIGNALING DEVICE. ARNOLD ORVILLE BECKMAN, Pasadena, Calif. Filed May 7, 1927. Serial No. 189,675. 5 Claims. (Cl. 200—56.)

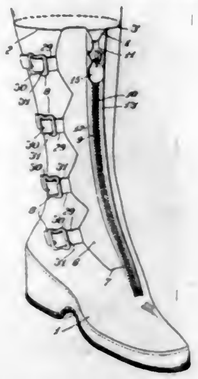


1. In a circuit closer, the combination with a rotatable indicator and its supporting shaft, the supporting frame therefor, and a normally expanded spring operatively connected at one end to the shaft; of a plate supported above the frame adapted for manual adjustment in a horizontal plane, a stationary contact carried by the plate, a movable contact on the plate normally out of engagement with the stationary contact, the other end of the spring being secured to the movable contact whereby the contacts will be in engagement with each other when the indicator has rotated a predetermined distance.

1,684,660. SHOE. GEORGE W. BLAIR, Mishawaka, Ind., assignor to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed Mar. 15, 1924. Serial No. 699,408. 8 Claims. (Cl. 36—50.)

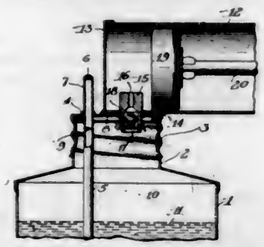
1. In a shoe, the combination of an upper having separable side portions one of which is composed of two sections, a quick operating fastener for connecting the two

side portions comprising opposed series of interlocking parts adapted to be interlocked and released by the movement of a slider along the juncture line of said parts, and



a plurality of spaced independently adjustable means connecting the two sections of the aforesaid side portion for varying the size of the upper part of the shoe.

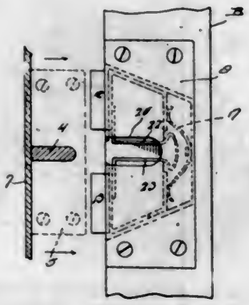
1,684,661. SPRAYING DEVICE. COLIN BROWN, Rochester, N. Y. Filed Oct. 7, 1926. Serial No. 140,000. 2 Claims. (Cl. 299—89.)



1. In a sprayer, the combination with a reservoir adapted to contain a body of liquid, and having a threaded neck thereon adapted to receive a screw cap, of a cap threaded on said neck, an atomizer tube extending through said cap and secured therein, the lower end of the tube on the interior having an opening below the fluid level of the reservoir and another opening above the fluid level thereof and the upper end of the tube having an exterior atomizing spraying opening, and a hand pump cylinder secured to the exterior of the cap and a check valve comprising a casing secured through registering apertures provided in said cap and the side wall of the pump cylinder and providing one-way communication from said pump to the interior of the reservoir to accumulate compressive pulsations of the pump and supply pressure to the top of the reservoir to create air pressure therein above the liquid body, and to also escape, successively, through the said interior and exterior openings of the tube.

1,684,662. ANTIRATTLING DEVICE FOR AUTOMOBILE DOORS. JACK L. DAY and EDWARD L. DESCHLER, Sacramento, Calif. Filed Jan. 3, 1928. Serial No. 244,234. 3 Claims. (Cl. 16—85.)

1. In an anti-rattling device for automobile doors, a casing secured in a recess formed in the door frame, a pair of opposed members arranged for slidable movement in the casing, resilient means interposed between the rear wall of the casing and the inner ends of the slidable members for normally urging said members forwardly, striker projections formed on the forward edges of the slidable members and normally disposed beyond the outer face of the door frame, a pair of spring arms arranged between the inner opposed edges of the slidable members for normally urging the same outwardly against the sides of the casing



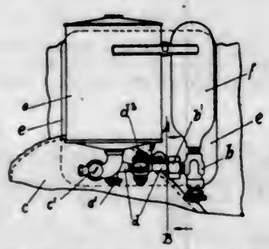
and further adapted to receive the lug on the edge of the door, the flange on the edge of the door striking said projection when the door is moved to a closed position and simultaneously forcing the slidable members rearwardly and also urging the spring arms into locking engagement with the lugs.

1,684,663. MANUFACTURE OF REENFORCED CONCRETE. RICHARD E. DILL, Alexander, Nebr. Filed Feb. 7, 1925. Serial No. 7,718. 3 Claims. (Cl. 72—71.)



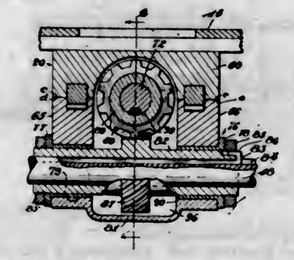
1. The method of reenforcing concrete which consists in forming a body of green concrete with the reenforce embedded therein, in permitting the body of concrete to set, in preventing the bonding of the reenforce to the concrete during the setting of the concrete, and finally in subjecting said reenforce to tension.

1,684,664. SELF-CONTAINED BREATHING APPARATUS. ALEXANDER BERNHARD DRÄGER, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Dräger, deceased. Filed Oct. 29, 1925, Serial No. 65,693, and in Germany Sept. 5, 1925. 3 Claims. (Cl. 128—191.)



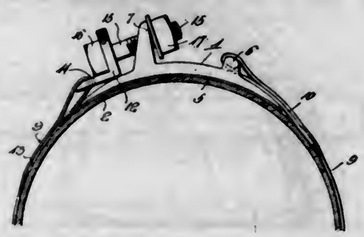
1. In a breathing apparatus including a vertical carrier plate, an air purifying cartridge and an oxygen container, the combination of a connecting-pipe rigidly attached to the carrier plate and extending between, and supporting the cartridge and the container, said connecting-pipe being provided with two axial opposite channels, one of which communicates with the oxygen container and the other leading to the cartridge, three lateral contact faces on said connecting-pipe, an automatic pressure-reducing valve fixed upon one of said contact faces, a manually controlled auxiliary valve carried by another of said faces, and a pressure gauge mounted upon the third of said faces, said contact faces being circumferentially disposed on said connecting-pipe in such a manner that the contact face for the gauge is upwardly and outwardly directed with respect to the carrier plate and that the contact face for the manual valve is downwardly directed and that the contact face for the automatic valve is upwardly and inwardly directed, the connecting-pipe being furthermore provided with radial branch-passages leading from the aforementioned axial channels to openings in the respective contact faces.

1,684,665. RADIAL DRILL. WILLIAM W. EDWARDS, Los Angeles, Calif. Filed Jan. 22, 1923. Serial No. 614,111. 3 Claims. (Cl. 74—56.)



2. An enclosed housing forming a lubricant chamber, a driven shaft extending through said chamber, a sleeve splined on said shaft and extending through the walls of said chamber, a gear wheel on said sleeve, a second sleeve extending through said chamber, a gear on said second sleeve meshing with the first named gear, and a drive shaft extending through said second sleeve on which said sleeve is splined, whereby on rotation of said drive shaft said sleeve may be rotated through the intermediary of said gears to effect rotation of said driven shaft.

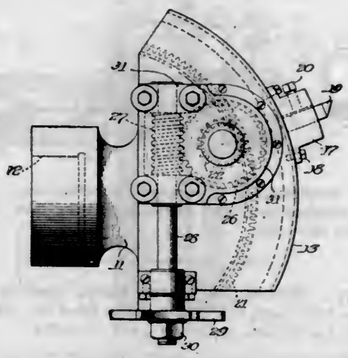
1,684,666. PIPE BAND. CHARLES ALBERT FRAZIER, Fair Oaks, Calif. Filed June 1, 1925, Serial No. 34,143. Renewed July 27, 1928. 2 Claims. (Cl. 24—19.)



1. A pipe clamp comprising a rigid arcuate plate to fit the pipe, the ends of the plate being tapered, a fastening member on the top surface of the plate at a spaced distance from each end thereof, a flexible split band, each of the free ends of the band being secured to one of said fastening members and the band lying flat against the top surface of the plate between the fastening members and the adjacent ends of the plate, and means for drawing one free end of the band relative to the plate to secure the clamp in position.

1,684,667. RADIUS TOOL. HARRY E. FRENETTE, Duluth, Minn. Filed Oct. 5, 1925. Serial No. 60,569. 2 Claims. (Cl. 82—12.)

1. A tool support for forming spherical surfaces or the like comprising a base member, an arcuate surface on the base member, a channel in said surface, means for securing the base member to a support, said means being adapted to permit adjustment of the base relative to the support about an axis in the plane of said channel, a movable member



fitted in said channel, means for securing a tool to said movable member and means for moving the movable member in the channel.

1,684,668. LUBRICATING MECHANISM. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 13, 1922. Serial No. 552,274. 6 Claims. (Cl. 184—55.)

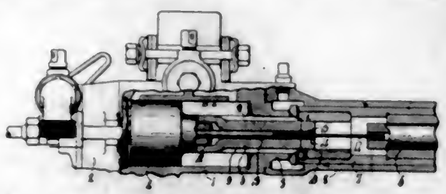


3. In a pressure fluid lubricating mechanism adapted to be actuated by a fluctuating fluid pressure, a pressure chamber, a lubricant reservoir, and means to allow flow of said fluid either to or from said reservoir and adapted to intermittently feed said lubricant including a movable ported stem extending between said chamber and said reservoir.

1,684,669. DRILLING MECHANISM. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 21, 1924. Serial No. 714,966. 13 Claims. (Cl. 121—10.)

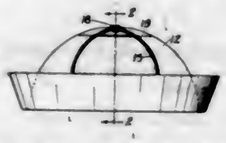
1. The combination with a drilling mechanism having a motor and a hollow drill steel actuated thereby, of hole cleansing means cooperating with said steel comprising

inner and outer fluid conducting tubes, the outer of said tubes having a circumferentially extending reduced portion at its free extremity engaging the other tube through-



out its circumference to support the latter tube against lateral displacement, and means permitting flow of fluid from said outer tube.

1,684,670. HEADGEAR. VITA HABIB, now by court decree Vita Habif, Cincinnati, Ohio. Filed Dec. 12, 1925. Serial No. 75,120. 2 Claims. (Cl. 2—176.)



1. In a device of the class described the combination of a stationary crown member having spaced sector shaped apertures therein, a rim member secured to the outer edges of said stationary crown member, a sweat band disposed interiorly of the stationary crown member, a movable crown member comprising a plurality of spaced sectors disposed interiorly of the stationary crown member and having their outer edges disposed between the stationary crown member and the sweat band, and means for pivotally mounting the crown members together at their centers for permitting rotation of the movable crown member within the stationary crown member for alternately opening and closing the sector shaped apertures in the stationary crown members.

1,684,671. METHOD OF PREVENTING EVAPORATION FROM CONCRETE DURING CURING. HAROLD P. HAYDEN, Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Oct. 12, 1925. Serial No. 62,194. 11 Claims. (Cl. 94—24.)

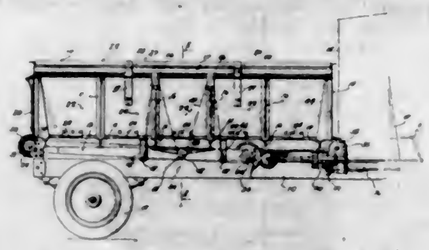
1. The method of preventing evaporation of water from cement concrete during the curing period which consists in applying to the surface of the concrete before curing an adherent film impervious to water.

1,684,672. MOTOR-VEHICLE HEATER. DAVID HILL, West Barrington, R. I. Filed July 16, 1926. Serial No. 122,836. 2 Claims. (Cl. 237—12.3.)



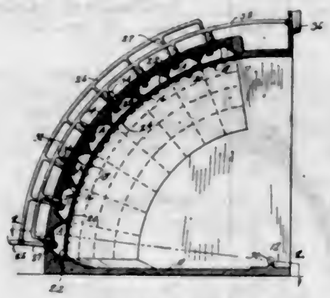
1. A heating system for a motor vehicle having a body and an exhaust conduit, comprising a conductor for heated air communicating at its upper end with the vehicle body, its lower end being open and extending in proximity to said exhaust conduit, an air heating and directing element mounted in contact with said conduit and having an upwardly extending tapering boss or protuberance extending into the open end of said conductor, and an outer casing about the open end of said conductor having an air intake opening.

1,684,673. TRUCK. THEODORE C. HOLLNAGEL, Milwaukee, Wis., assignor, by mesne assignments, to The Hughes-Keenan Company, Mansfield, Ohio, a Corporation of Ohio. Filed Mar. 26, 1923. Serial No. 627,895. 7 Claims. (Cl. 214—13.)



1. A load receiving body, comprising a pair of floor members, means hingedly connecting the inner edges of the floor members with the body, a pair of side members, means hingedly connecting one side member with each floor member, and means positioned outside of the body operable to move the floor and side members to form side walls inclined toward the medial portion of the body.

1,684,674. GOLF PRACTICE APPARATUS. CARL H. KRAETSCH, Des Moines, Iowa. Filed Apr. 20, 1927. Serial No. 185,204. 10 Claims. (Cl. 265—20.)

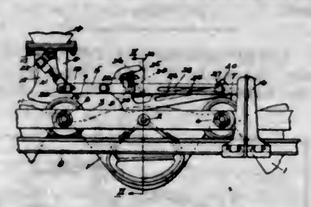


1. In a golf practice apparatus, a substantially rigid back, a series of resilient pockets arranged on the face thereof, and means for registering the impact of a blow on any of the pockets, the inner faces of the pockets being arranged to form a substantially continuous concave surface.

1,684,675. AUTOMATIC FEEDER. ALEXIS W. LEMMON, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed July 12, 1922. Serial No. 574,593. 14 Claims. (Cl. 198—59.)

1. In a device of the kind described, the combination with a series of travelling receptacles, a spout adapted to direct material to said receptacles and a valve controlling

said spout; of valve operating means comprising a lever operatively connected at one end with the valve, means travelling with said receptacles adapted to rock said lever
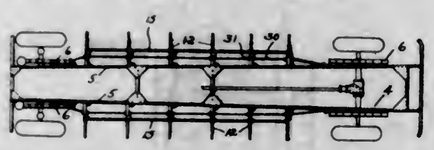


to operate said valve, and means for varying the rocking period of said lever without variation of the extent of its angular movement.

1,684,676. SOLE CONSTRUCTION FOR RUBBER BOOTS. LUIGI LORENZI and ANSELMO COLOMBO, San Francisco, Calif. Filed Feb. 7, 1925. Serial No. 7,492. Renewed May 9, 1928. 1 Claim. (Cl. 36—32.)



An integral rubber sole and heel made for rubber boots having a resilient metal plate of skeleton form embedded in and completely covered by said sole and heel and substantially following the outline of the sole and heel with its outer edge located close to but spaced from the outer edge of the rubber sole and heel piece, and socket members carried by said plate, said sole and heel portions having openings in the tread thereof into which said sockets extend whereby calks may be attached to the sole and heel portion.

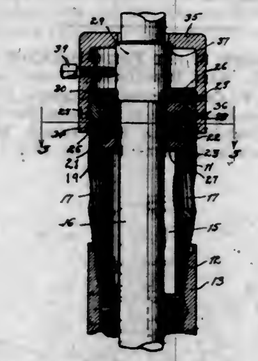
1,684,677. BODY AND CHASSIS CONSTRUCTION FOR MOTOR VEHICLES. LOUIS U. MCABEE, Oakland, Calif., assignor to California Transit Company, Stockton, Calif., a Corporation of California. Filed Apr. 21, 1924. Serial No. 707,917. 3 Claims. (Cl. 200—106.5.)



1. In a chassis for motor vehicles, the combination with spaced longitudinal members resiliently carried on the vehicle axles, of longitudinally extending body supporting sills spaced outwardly from said members, and brackets supported by said members providing the primary support of said sills and the running boards of the vehicle, the parts of each bracket engaging said members and sills being directly connected whereby said sills are arranged to be supported in fixed spaced relation from said members.

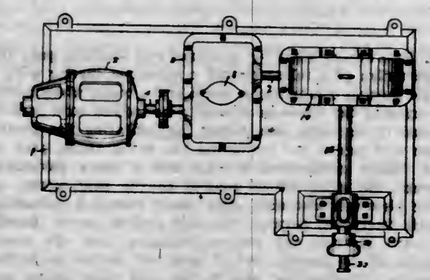
1,684,678. SEALING CASING HEAD. WILLIAM L. MCLAINE and WILLARD L. BOROUGH, Los Angeles, Calif. Filed Jan. 12, 1924. Serial No. 685,870. 2 Claims. (Cl. 166—14.)

2. The combination of a casing head comprising: a tubular body member having a counter-bore formed therein; tubing extending through said casing head; packing means around said tubing within said counter-bore comprising a pair of interchangeable rings, each of which has an annular wedge face, and a compressible member disposed between said rings so as to be engaged by one of said wedge faces, the other of said wedge faces engaging a



complementary shoulder of said counter-bore; and a coupling secured to the upper end of said tubing and adapted to engage said packing means to support said tubing.

1,684,679. POWER-TRANSMITTING APPARATUS. JEDDY D. NIXON, Houston, Tex., assignor to Humble Oil & Refining Company, a Corporation of Texas. Filed Feb. 16, 1925. Serial No. 9,655. 8 Claims. (Cl. 74—7.)



1. In power transmitting apparatus a driven shaft, a screw gear thereon, a transmitting gear formed of a driving section in mesh with said screw gear, a driven section, means clutching the driving section with the driven section, said clutching means being adapted to permit the acceleration of the driven section, and friction means housed within said transmitting gear adapted to frictionally engage the driven section on opposite sides for retarding said acceleration.

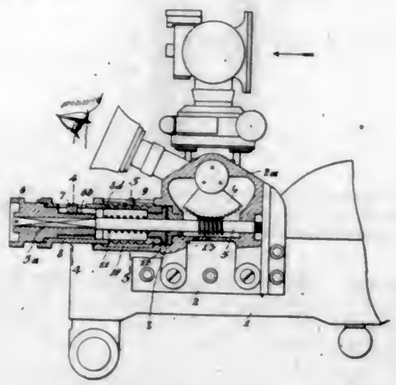
1,684,680. CONSTRUCTION OF TRACKS OF STREET RAILWAYS. GUSTAV OESS, Essen, Germany. Filed Mar. 7, 1928, Serial No. 259,661, and in Germany Mar. 19, 1927. 5 Claims. (Cl. 238—9.)



1. In a track, a rail, a pair of reinforcing blocks located alongside said rail at opposite sides thereof and each block extending with its top face to the surface of the

road, and means passing under the rail for securing said reinforcing blocks to said rail, the combined rail and blocks providing a beam capable of oscillation independently of the road-bed.

1,684,681. BREECH SIGHT FOR ORDNANCE AND MACHINE GUNS. KARL PETSCHENIG, Vienna, Austria, assignor to C. P. Goerz Optische Anstalt, Aktiengesellschaft, Akciova Spolecnost K. P. Goerz Opticky Ustav, Bratislava, Czechoslovakia. Filed Dec. 5, 1925, Serial No. 73,370, and in Germany Dec. 15, 1924. 2 Claims. (Cl. 33—48.)



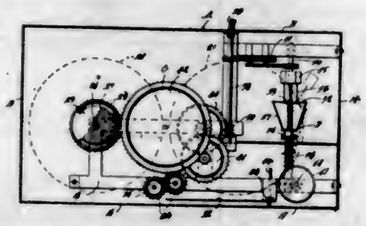
1. In a breech sight for ordnance and machine guns the combination of a telescope and a telescope carrier with a single gearing comprising a worm and a worm wheel sector for turning the telescope around a horizontal axis perpendicular to the sight line, means for indicating the ground angle and means for indicating the firing angle, each of such means comprising a scale and a mark associated thereto, an inner sleeve secured to the said worm, an outer sleeve surrounding such inner sleeve, a releasable clutch interposed between the said sleeves, screw threads on such sleeves, nut sectors engaging into the screw threads of the sleeves, one of such nut sectors projecting through a longitudinal slot in the said outer sleeve and the other nut sector projecting through a longitudinal slot of a part of the carrier.

1,684,682. MAP HOLDER. HUGH W. PRETTYMAN, Inwood, W. Va. Filed Sept. 12, 1925. Serial No. 56,061. 7 Claims. (Cl. 40—86.)



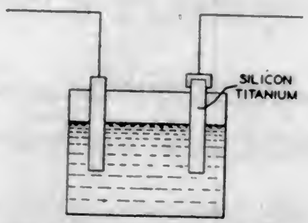
1. In a display device, a casing having spaced tubular spool containers connected by an intervening flat bed plate, a back plate extending between said containers in spaced parallel relation to the bed plate to define an intervening spool storage compartment open at its ends, and freely removable end caps frictionally fitting over the ends of said containers to extend across the ends of said compartment.

1,684,683. SPEEDOMETER AND INDICATOR. WILLIAM J. RADKE, Marmath, N. Dak. Filed Jan. 23, 1924. Serial No. 688,025. 1 Claim. (Cl. 242—55.)



In recording mechanism, means for effecting feed of a record strip comprising a supply reel from which the strip is to be unwound, a take-up reel upon which the strip is to be wound, a shaft upon which the said take-up reel is fixedly mounted, a disk fixed upon the shaft for rotation therewith, a ring gear fitted to the periphery of the disk and rotatable with respect to the disk, the disk having recesses in its periphery, resilient clutch members mounted in said recesses in the disk and bearing frictionally against the inner periphery of the ring gear to frictionally clutch the gear with the disk, a main drive gear in mesh with the ring gear, a shaft the revolutions of which are to be recorded upon the record strip, guide rolls about which a portion of the strip which extends between the supply reel and the take-up reel is reversely wound, gears upon the rolls meshing with each other to provide for rotation of the rolls in unison, one of said gears being in mesh with the main drive gear, and a gear train interposed between the last mentioned shaft and the said main drive gear.

1,684,684. ELECTROLYTIC RECTIFIER. WILLIAM C. READ, Niagara Falls, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia. Filed Mar. 8, 1927. Serial No. 173,798. 16 Claims. (Cl. 175—318.)



1. An electrode for electrolytic rectifiers consisting of an alloy of silicon and titanium-group metal.

16. An electrolytic rectifier comprising an anode of lead composition, an electrolyte of 10% to 40% sulphuric acid containing a metal sulphate, and a cathode consisting of an alloy of silicon and titanium-group metal containing 10% to 40% of the latter.

1,684,685. LIQUID FUEL. ELMER H. RECORDS, Spokane, Wash. Filed Jan. 6, 1925. Serial No. 878. 1 Claim. (Cl. 44—9.)

A fuel comprising by volume

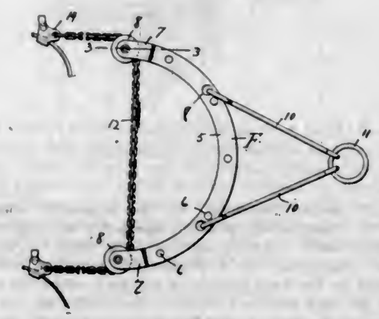
	Per cent.
Alcohol	72
Benzol	18
Ether	5
Naphthol	2.50
Hydrogen peroxide	1.50
Sodium hydroxide	1.00

1,684,686. AQUEOUS LIQUID FUEL. ELMER H. RECORDS, Spokane, Wash. Filed Jan. 6, 1925. Serial No. 879. 1 Claim. (Cl. 44—9.)

A liquid fuel solution comprising—

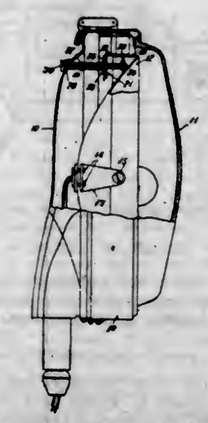
	Per cent.
Alcohol and water	72
Benzol	18
Ethyl ether	5
Naphthalene	2.50
Oxygen	1.50
Sodium hydroxide	1.00

1,684,687. STRAIN EQUALIZER. GOTTHILF J. RENLE, Lehi, N. Dak. Filed Oct. 22, 1927. Serial No. 228,055. 4 Claims. (Cl. 254—83.)



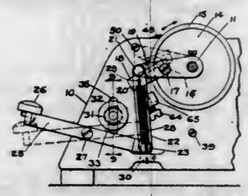
1. A strain equalizer of the class described comprising an arcuate frame, pulleys journalled in the ends of the frame, a chain trained over said pulleys, wire engaging elements on the extremities of the chain.

1,684,688. HEADLIGHT. WALTER D'ARCY RYAN, Schenectady, N. Y. Filed May 13, 1925. Serial No. 29,991. 3 Claims. (Cl. 240—41.)



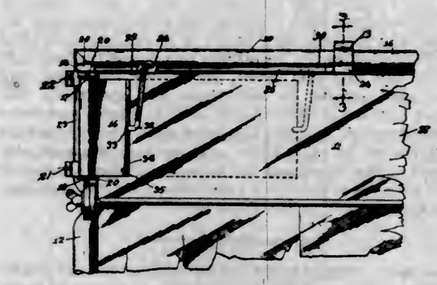
1. A headlight comprising a housing, a reflector in said housing, trunnion means for pivotally mounting said reflector in said housing, a slotted bracket secured to said reflector, a screw projecting through said housing and said bracket, a nut carried by said screw and having a portion projecting through said slotted bracket, and a spring surrounding said screw and tending to hold a portion of said bracket against said nut, said bracket being bodily removable with said reflector from operative engagement with said nut.

1,684,689. PAPER HOLDING AND ADVANCING MECHANISM. GARLEN I. SNYDER, Indianapolis, Ind. Filed June 19, 1926. Serial No. 117,204. 1 Claim. (Cl. 74—53.)



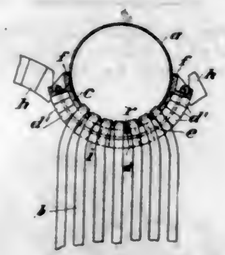
The combination of a rotary element having a laterally extending rim, a lever mounted concentrically of said rim and extending beyond the periphery of the same, a clutch member mounted on said lever and having a slot receiving said rim, comprising means for oscillating the lever to rotate the rim, a manually operable lever spaced from said first-mentioned lever, a link connecting said levers, an adjustably mounted stop for limiting the stroke of the manually operable lever, and a lug for limiting the downward movement of the link, substantially as set forth.

1,684,690. ANTIGLARE SHIELD FOR VEHICLES. ALEX STEGER, Vining, Minn. Filed Feb. 18, 1927. Serial No. 169,293. 2 Claims. (Cl. 296—97.)



1. The combination with a wind shield glass of a vehicle, a clip secured to the top frame member of the wind shield and having a portion providing a sleeve, a roller, clips secured to one of the side frames of the wind shield and providing brackets for rotatably supporting said roller, one of said clips having a portion providing a sleeve, a guide bar having one end portion inserted in the first mentioned sleeve and an opposite end portion inserted in the second mentioned sleeve, a carriage sleeve movable longitudinally with respect to the guide bar and having depending arms, a translucid shield secured to the roller for winding thereon, and a reenforcing strap connected to said arms and to the unsecured edge portion of said translucid shield.

1,684,691. WATER-TUBE BOILER. LEBRECHT STEINMÜLLER, Gummersbach, Germany, assignor to Firma L. & C. Steinmüller, Gummersbach, Rheinland, Germany. Filed Sept. 10, 1925, Serial No. 55,587, and in Germany July 11, 1925. 8 Claims. (Cl. 110—98.)



1. In combination with a boiler drum, spaced rows of tubes entering said drum and means for protecting the walls of said drum from direct flame action comprising strings of refractory blocks located in the space between the rows of tubes and refractory tiles located between said blocks and the wall of the drum and held in position by said blocks.

1,684,692. SPRING SUSPENSION FOR MOTOR VEHICLES. JOHN FIFIELD ADYE, Hilton, England. Filed Oct. 21, 1925, Serial No. 63,974, and in Great Britain Oct. 27, 1924. 2 Claims. (Cl. 280—104.)



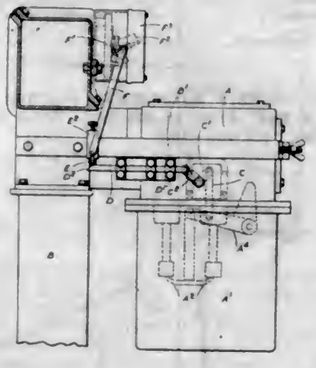
1. In a vehicle, the combination with a main frame, of a wheel-carrying axle, a spring operatively interposed between said axle and said frame, a second wheel-carrying axle, a second spring operatively interposed between said second axle and said frame, and means comprising two lever arms pivoted on said frame and operatively connected together at one end, each lever arm being associated with one of said springs, said lever arms being so inclined with respect to each other, and being so disposed with respect to the frame and the springs that displacement of one axle tends to produce a progressively varying and opposite displacement of the other axle.

1,684,693. THRUST BEARING WITH FLUID FRICTION. GEORG BÖHM, Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel Gaarden, Germany. Filed Aug. 7, 1924, Serial No. 730,705, and in Germany Sept. 10, 1923. 11 Claims. (Cl. 308—160.)



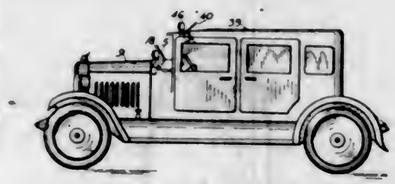
5. A thrust bearing in which one of the bearing members consists of a plurality of thrust segments each nontiltably secured to a yieldable member pivotally supported at a point offset with respect to the segment.

1,684,694. ELECTRICAL SWITCH GEAR. FRANK COATES, Cleadon, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Mar. 12, 1926, Serial No. 94,303, and in Great Britain May 19, 1925. 7 Claims. (Cl. 200—50.)



1. In electric switchgear of the armoured draw-out type, the combination with the operating mechanism for the main switch contacts carried on the draw-out portion of the switchgear, of a number of auxiliary switches mounted on the fixed portion of the gear, actuating mechanism for such auxiliary swithes also carried on the fixed portion of the gear, a coupling which is brought into engagement when the draw-out portion is moved into its closed position and is disengaged when the draw-out portion is withdrawn, and means whereby the operation of the main switch contacts causes power to be transmitted through the coupling, when engaged, for the actuation of the auxiliary switches.

1,684,695. LIGHTING DEVICE FOR VEHICLES. FRANK N. DRAPER, Denver, Colo. Filed Aug. 2, 1926. Serial No. 126,591. 7 Claims. (Cl. 240—7.1.)

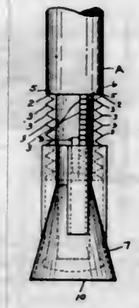


1. A disappearing automobile light comprising a light in the automobile mounted for universal movement and adapted to move through an opening in the automobile to the outside thereof, means to move the light through said opening, means in the automobile for the universal movement of said light, and means closing the opening when the light is inside or outside of the automobile.

1,684,696. ALLOY AND PROCESS OF MAKING THE SAME. ALEXANDER L. FEILD, New York, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia. Filed Oct. 25, 1924. Serial No. 745,929. 3 Claims. (Cl. 75—1.)

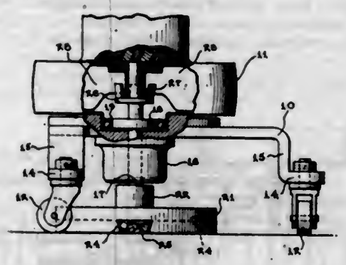
1. The hereindescribed process of combining zirconium with copper which consists in introducing an alloy of aluminum and zirconium into a superheated bath of copper.

1,684,697. CRUTCH ATTACHMENT. HARRY FRANKLIN FRANTZ, Cleveland, Ohio. Filed Dec. 8, 1927. Serial No. 238,669. 1 Claim. (Cl. 135—54.)



In a crutch a sleeve adapted to be fixed to the foot of the crutch, said sleeve being provided with a plurality of vertical tenons carrying cog like teeth, a ferrule provided with a plurality of radial pockets adapted to accommodate the tenons of the sleeve, said pockets each provided at its opening with a tooth, to cooperate, upon turning the ferrule and sleeve relatively with any desired one of the cog like teeth carried by the tenons.

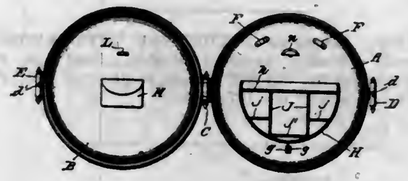
1,684,698. POLISHING ATTACHMENT FOR VACUUM CLEANERS. BERYL FREEMAN, Cambridge, Ohio. Filed Jan. 26, 1927. Serial No. 163,714. 1 Claim. (Cl. 15—246.)



In combination, a polishing device comprising a frame, a shaft rotatably mounted in the frame, a polishing head carried at the lower end of said shaft and disposed below the frame, and means on said shaft above the frame for attachment with the fan of a vacuum cleaner supported on said frame.

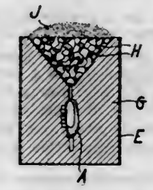
1,684,699. TIRE CARRIER AND TOOL KIT. FRANK M. HARSIN, Nampa, Idaho, assignor of one-half to A. D. Leedy, Portland, Oreg. Filed Feb. 9, 1926. Serial No. 87,098. 1 Claim. (Cl. 224—29.)

In a tire carrier, an imperforate casing comprising substantially identical sections, each section being of dish shape, and one section being fixed and the other hinged to the fixed section, a pair of spaced elongated brackets projecting axially from and secured to the upper part of the fixed section, said brackets being notched to receive and engage the sides and inner faces of a pneumatic tire rim for locating and clamping the rim to support the tire entirely out of contact with the casing, a single bracket projecting axially from and secured to the lower part of the fixed section of the casing, said single bracket having a recess forming a shoulder, and an adjustable lug carried by the end of the bracket opposite the shoulder, to form with the recess a third notch, the medial portions of the



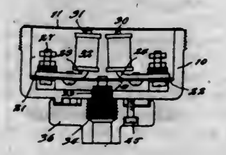
notches being intersected by a plane flush with the edge of the fixed section to permit the operator to remove the tire from the casing without rubbing his fingers against the latter.

1,684,700. CASTING ARTICLES OF CORROSION-PROOF STEEL. FRIEDRICH HAUPTMEYER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Rhur, Germany. Filed Jan. 26, 1927, Serial No. 163,768, and in Germany Feb. 18, 1926. 6 Claims. (Cl. 22—200.)



3. In the process for manufacturing articles of corrosion-proof steel by melting the steel by means of an open flame and casting it in a mold, embedding the steel to be melted in a receptacle, covering the steel with a deoxidizing flux, melting it down and casting it through a closed channel in a closed mold, the walls of said receptacle, channel and mold consisting of a material, which is free from carbon.

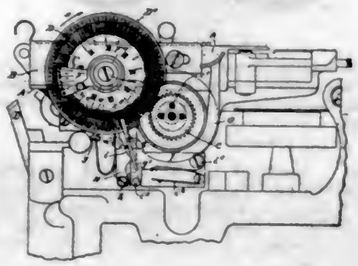
1,684,701. DIAPHRAGM-CONTROL MOUNTING. CHARLES MILTON HAYMAN, Brooklyn, N. Y. Filed Mar. 10, 1925. Serial No. 14,361. 14 Claims. (Cl. 179—119.)



1. In a device of the class described, the combination of a cup-shaped casing open at one end, a diaphragm marginally supported on the casing at said open end, said casing provided within the same with two diametrically spaced supports, a thin strip of spring metal bridged across the casing with its ends resting on said spaced supports, an electromagnet including L-shaped pole pieces each having one leg secured to the spring bridge and having their other legs extending laterally from the spring bridge and on opposite sides of its center, the free ends of said later-

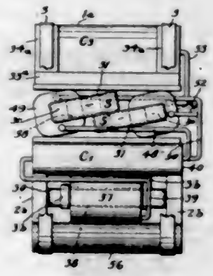
ally extending legs positioned close to but spaced from the diaphragm on opposite sides of its center, and a set screw extending through the casing and engaging said spring bridge to flex the same between its supported ends and thus cause the free ends of the pole pieces to move relative to each other.

1,684,702. LOCKING DEVICE FOR TYPEWRITERS. RUDOLF HEIMERS, Tacubaya, Mexico. Filed Apr. 23, 1926, Serial No. 104,207, and in Switzerland Apr. 24, 1925. 3 Claims. (Cl. 197—141.)



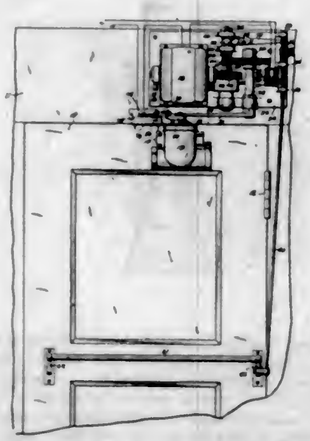
1. A locking device for typewriters, comprising a graduated counter connected with and revolved by the line spacing mechanism, means for disengaging said counter from the line spacing mechanism, a concentric adjustable stop on said counter for determining the number of lines to be written, means for disengaging through said stop the carriage rack from its pinion, and means for returning said counter to its primary position with each new sheet.

1,684,703. ARRANGEMENT OF ELECTRICAL APPLIANCES. HARRY W. HOUCK, East Orange, N. J., assignor, by mesne assignments, to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 24, 1924. Serial No. 745,660. 5 Claims. (Cl. 175—356.)



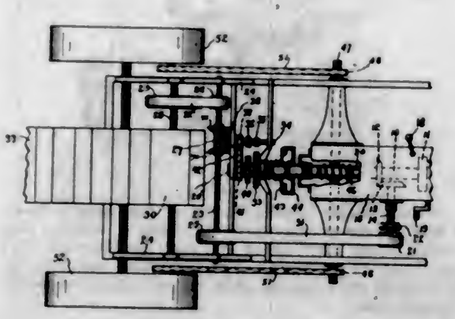
1. In a device of the character described having a source of varying current connected thereto, a plurality of inductance coils having magnetic cores, said cores being located adjacent each other in close physical relation, the inductance coils being connected with said source of current, and the windings of the coils being connected in such manner that like magnetic poles are induced in adjacent ends of the magnetic cores, whereby detrimental magnetic coupling effects between the coils are substantially reduced.

1,684,704. DOOR CONTROL. HARVEY HUBBELL, Bridgeport, Conn.; Louie E. Hubbell executrix of said Harvey Hubbell, deceased. Filed Jan. 6, 1926. Serial No. 79,619. 12 Claims. (Cl. 268—65.)



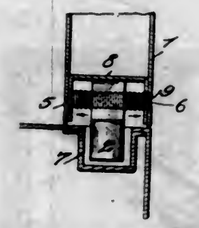
1. In combination, a movable door, a door check including a spring tending to move the door to closed position, and manually operable means carried by the door for rendering said check ineffective and permit the door to move independently thereof.

1,684,705. VARIABLE-SPEED MECHANISM. WALTER G. HUMPHREYS, Omaha, Nebr. Filed May 13, 1926. Serial No. 108,847. 2 Claims. (Cl. 180—70.)



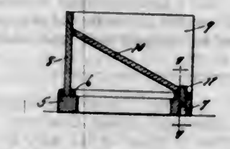
2. In driving mechanism for a vehicle, the combination with the usual propeller shaft, power shaft and disengageable gearing therebetween, a drive shaft connected to the power shaft in advance of said gearing, an operating shaft connected through a clutch to said drive shaft, a stub shaft reversibly connected to the operating shaft, another shaft disposed in parallel relation with the stub shaft, registering variable speed gears on the stub and said last named shafts, a shiftable connection between said gears for connecting the respective shafts in various ratios, and a clutch connection between said last named shaft and the propeller shaft.

1,684,706. ADJUSTABLE GUIDE FOR SLIDING DOORS. NICHOLAS KAUTH, Los Angeles, Calif., assignor to A. J. Bayer Company, a Corporation of California. Filed Feb. 7, 1927. Serial No. 166,522. 5 Claims. (Cl. 16—93.)



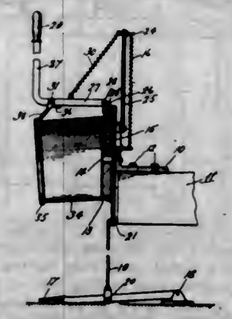
1. A shoe for sliding doors carried by supports from the door and having independent means for adjusting the shoe laterally on said supports in a transverse plane and securing it in its adjusted position.

1,684,707. MERCHANDISE SUPPORT. CICERO LA HATTE, Vicksburg, Miss. Filed Feb. 1, 1927. Serial No. 165,176. 6 Claims. (Cl. 211—148.)



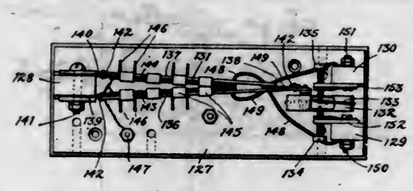
1. A merchandise holder comprising a base frame, a rear wall detachably mounted in upright position on said frame, a removable platform adpated to rest flatly on the base frame or to be arranged at an inclination thereon with the upper edge of the platform resting against the rear wall and a retaining strip engageable with the base frame to provide a supporting abutment for the lower edge of the platform when the latter is disposed at an inclination.

1,684,708. DEVICE FOR REMOVING FRICTION PLUGS FROM CONTAINERS. GEORGE A. LEIGHTON, Roslindale, Mass., assignor to American Can Company, New York, N. Y., a Corporation of New York. Filed Apr. 16, 1926. Serial No. 102,380. 9 Claims. (Cl. 81—3.1.)



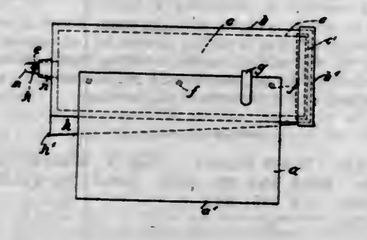
2. In a device of the class described the combination of a support, a mandrel thereon adapted to fit within a friction plug with the can body assembled thereto, means for gripping the outer periphery of said plug, and means for pressing the can body away from said plug.

1,684,709. INTERMITTENT THERMAL SWITCH. HARRY F. LÖWENSTEIN, Washington, D. C. Filed Apr. 14, 1920. Serial No. 373,768. 11 Claims. (Cl. 200—122.)



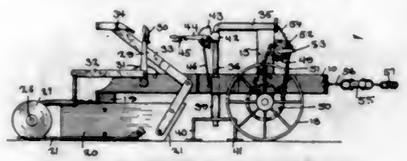
4. In an intermittent thermal switch, a thermo-motor element and a quick make and break contact comprising a buckle plate in the form of a toggle lever, a spring holder arranged to carry and hold the buckle plate under tension applied at its ends through trough and knife edge connections and tending to buckle said lever formed of two substantially rigid members hingedly joined through a trough and knife edge connection, and opposed engaging means arranged at opposite sides of said toggle to be alternately engaged by the same, in the movement of said motor element to move the center pivot of said lever past center against the force of said tension means whereby the lever is caused to move from one engaging member to the other with a snap movement.

1,684,710. WAX-MELTING APPARATUS. CARL METHFESSEL, Sulzbach-on-the-Murr, Germany. Filed Feb. 29, 1924, Serial No. 696,092, and in Germany Mar. 23, 1923. 1 Claim. (Cl. 87—19.)



Wax melting apparatus for honeycombs including a boiler, a horizontally disposed steam kettle above said boiler having its lower portion up to about the horizontal median plane though extending into said boiler, having its wall in common with said boiler, said steam kettle being in communication with said boiler through perforations arranged in the sides of said common wall at points adjacent the line of junction of the side wall of the boiler with said steam kettle, a channel shaped member secured beneath the bottom of said steam kettle, subtending the lowermost portion thereof and inclining downwardly toward one end, terminating outside said boiler, the wall of said steam kettle being formed with perforations communicating with the channel defined by said channel shaped member, said steam kettle having a permanent wall at one end and a removable lid at the other, a bearing provided in said permanent wall and a perforated wax receiving drum having a trunnion at one end adapted to be received in said bearing, the other end of said drum resting rotatably against a wall of said steam kettle and being provided with a lid for supplying wax to said drum, said trunnion projecting beyond said bearing and a handle on said trunnion for imparting rotation to said drum.

1,684,711. COTTON CHOPPER. RICHARD S. MOORE, Snyder, Tex. Filed Sept. 29, 1926. Serial No. 138,538. 4 Claims. (Cl. 97—19.)

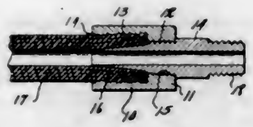


1. In a cotton chopping machine, a longitudinal support frame, an axle journaled transversely on the forward portion of the frame, a pair of runners secured to the rear portion of the frame, ground wheels secured to the outer ends of the axle a sprocket wheel secured to the intermediate portion of the axle, a transverse shaft adapted for rotatable movement in an elevated position on the frame, a sprocket wheel affixed on said transverse shaft, a chain trained over the sprocket wheels on the axle and the last mentioned shaft for a simultaneous operation thereof, a rocker bar mounted for rocking movement in an elevated position on the frame and operatively connected to said transverse shaft; an L-shaped chopper supporting rod mounted for swinging movement on the frame and secured to the rocker bar, a chopper mounted for reciprocating movement on the chopper rod, and mechanism for manually reciprocating the said chopper on the rod.

1,684,712. PROCESS FOR THE PRODUCTION OF FERTILIZERS. MAX PAUL NITSCHE, Dresden, Germany. Filed Sept. 25, 1926, Serial No. 137,816, and in Germany Oct. 8, 1925. 2 Claims. (Cl. 71—9.)

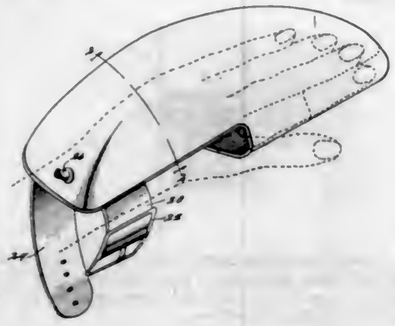
1. A method of producing a fertilizer from sulphite waste lye which is obtained in the manufacture of sulphite cellulose, consisting in adding an acid salt of sulphuric acid to the lye and subjecting the resulting liquor to evaporation, whereby the sulphurous acid is removed and a residue is obtained which constitutes the fertilizer.

1,684,713. HOSE CLAMP. CARL A. NORGREN, Denver, Colo. Filed May 29, 1926. Serial No. 112,620. 2 Claims. (Cl. 285—86.)



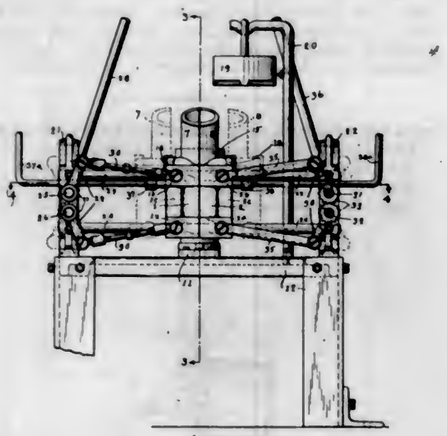
1. A coupling of the character described comprising a screw-threaded collar member having a hose receiving chamber and provided in the walls thereof with angular tapered grooves forming a series of annular ribs presenting front inclined faces and rear shoulders and adapted to grip and hold a hose, said chamber being provided at the front with a cylindrical wall in substantial alignment with the apexes of the annular ribs, an abutment shoulder at the inner end of the hose receiving chamber, and a compression-member screw-connected with the collar member and having a smooth faced tapering end portion arranged to be forced into the hose and cooperating with the said ribs of the compression chamber for compressing the hose within the said grooves.

1,684,714. SWIMMING APPARATUS. IRA D. PERRY, Chicago, Ill. Filed Aug. 12, 1927. Serial No. 212,414. 4 Claims. (Cl. 9—21.)



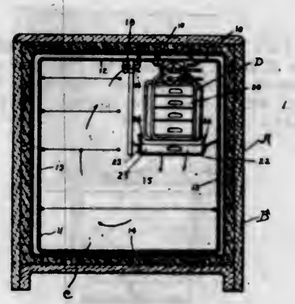
1. A swimming device comprising an inflatable rubber bladder shaped substantially to conform to the outline of the hand and wrist of the user and adapted to fit upon the back of the hand and wrist or over the ankle and arch portion of the foot, means for securing said bladder to the wrist or ankle, and a pocket shaped to receive the fingers or toes and ball portion of the foot of the user and having one wall thereof in common with said bladder.

1,684,715. MOLD. DANIEL J. RYAN, Cleveland, Ohio, assignor to The Cleveland Trust Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 17, 1925. Serial No. 23,813. 6 Claims. (Cl. 22—126.)



3. In apparatus for forming cup-shape castings, the combination of a metal mold body having an open-topped cavity and a pouring gate leading into said cavity; and a core disposed in said cavity so as to form the cup shape matrix of the mold, said core comprising a body of green sand that forms the inner bottom and side walls and the annular top wall of said matrix and a metal reinforcing structure having a section embedded in the sand and circular core print section rigid with the embedded section and engaging the mold body adjacent the mouth of its cavity to sustain and position the core.

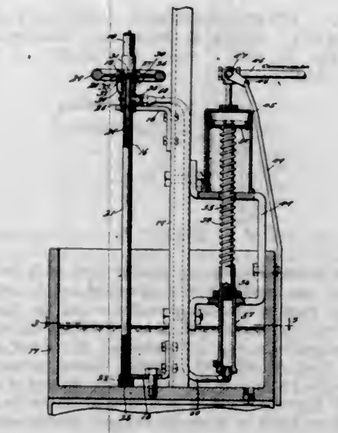
1,684,716. REFRIGERATOR. WALTER G. SEEGER and GUSTAVE R. SEEGER, St. Paul, Minn., assignors to Seeger Refrigerator Company, a Corporation of Minnesota. Filed Aug. 17, 1925. Serial No. 50,692. 10 Claims. (Cl. 62—95.)



5. A refrigerator including, an automatic refrigerating unit, a lining for said refrigerator, a partition suspended from the top of said lining and having apertures therein and right angular hooks seated in the top of said lining cooperating with said apertures.

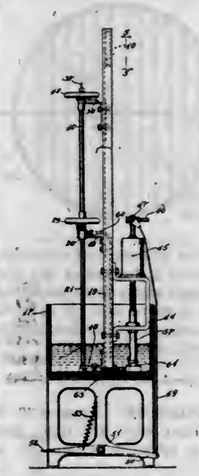
9. A refrigerator including, an automatic refrigerating unit, an open shelf positioned below said unit in a manner to permit cold air from the unit to pass therethrough, and a receptacle moisture pan removably supported by said shelf closely to said unit.

1,684,717. NONEXPANSIBLE HOSE. MORTON ROLAND SHERBINO, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif., a Corporation of California. Filed Dec. 13, 1923. Serial No. 680,294. 4 Claims. (Cl. 29—88.2.)



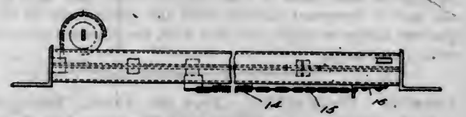
1. In an apparatus of the class described, the combination of a tubular receptacle, a plunger rod loosely supported within said receptacle and extending therebeyond, a hose, means for securing one end thereof to said receptacle about the projecting end of said plunger rod, and a stuffing box secured to the opposite end of said hose and slidably receiving said plunger rod.

1,684,718. METHOD OF MAKING NONEXPANSIBLE HOSE. MORTON ROLAND SHERBINO, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif., a Corporation of California. Original application filed Dec. 13, 1923, Serial No. 680,294. Divided and this application filed Oct. 2, 1926. Serial No. 139,039. 6 Claims. (Cl. 29—88.2.)



1. The method of placing a flexible tube in the bore of a hose to maintain it permanently expanded, which consists in providing a piston for the tube and subjecting the interior of the bore of the hose and the face of the piston to a common fluid pressure simultaneously to expand the hose and drive the tube into the bore of the hose.

1,684,719. ELEVATOR DOOR. HAROLD W. SHONNARD, Upper Montclair, N. J., assignor to Elevator Supplies Company, a Corporation of New Jersey. Continuation of application Serial No. 31,783, filed May 21, 1925. This application filed Dec. 23, 1926. Serial No. 156,557. 4 Claims. (Cl. 39—86.)



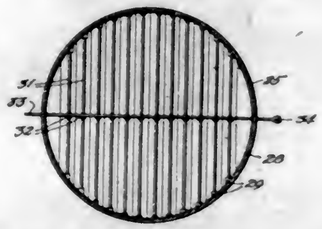
1. In combination with an elevator car, a gate, mechanical means for operating the same, a spring operated fender on the gate and a spring having one end attached to the frame of the gate and the other end attached to the gate, said spring being adapted to counterbalance the tension of the fender spring so as to prevent disturbance of the action of the gate operating means.

2. According to claim 1, the counterbalance spring comprising an extensible helical spring or springs, a chain attached to one end thereof, and a slotted bracket adapted to engage with one or another link of said chain to permit adjustment of the spring tension at will.

1,684,720. AUTOMOBILE HEADLIGHT. LAWSON L. WAGNER, Baltimore, Md. Filed Oct. 29, 1927. Serial No. 229,631. 9 Claims. (Cl. 240—45.2.)

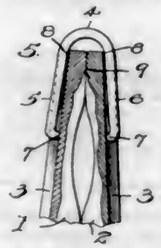
3. In a headlight, a headlight lens having a rear surface consisting of a series of vertically disposed triangular prismatic portions, a grid behind said lens and having

vertical bars equal in number to the prismatic portions, the width of each bar being substantially one-half the width of each prismatic portion, said bars being normally disposed directly to the rear of the apices of the prismatic portions, said bars being movable simultaneously to cover one side and the other of each prismatic portion selectively, gud-



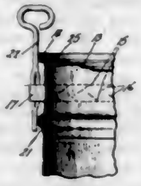
geons at the top and bottom front corners of said bars, journals supporting said gudgeons, a tie bar having pivotal connection with each of the first mentioned bars at its rear edge, and means to move said tie bar transversely of the headlight and thereby rock the first mentioned bars simultaneously to one side and the other.

1,684,721. CLOTHESPIN. ANDREW T. WOOD, San Francisco, Calif. Filed Sept. 11, 1926, Serial No. 134,857. Renewed Aug. 3, 1928. 2 Claims. (Cl. 24—137.)



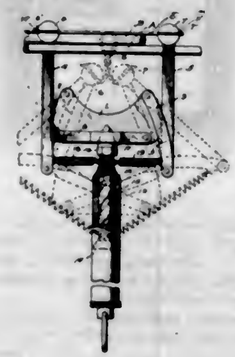
2. The combination with a pair of duplicate jaws each having an outer grooved edge, of a U-shaped yoke astride the jaws and having resilient crimped bars frictionally engaging the side walls of said grooved edges said bars being out of frictional contact with the inner walls of the grooves except at their ends and with the opposite grooved ends of the jaws.

1,684,722. CONTAINER. JOHN M. YOUNG, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 22, 1922. Serial No. 562,902. 2 Claims. (Cl. 220—53.)



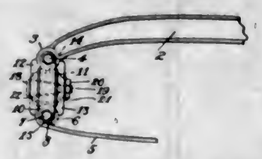
1. A can, comprising a body having a cover seamed thereto and provided beneath said cover with a strip set off by encircling score lines adapted to be torn away to remove the cover, said can having a bead beneath said score lines forming with the connection between the cover and body a circumferential track adapted to guide a key employed for removing the strip, and an internal band secured within said body and extending above said score lines to provide a means for receiving the torn-away top of the can, said band having its ends joined in a lock seam and being tightly secured within the can body, the outward projections of the cover seam and of the bead relative to the can wall being of the same extent so that the key is maintained at right angles to the strip during the tearing operation.

1,684,723. WIRE TYING OR TWISTING DEVICE. ARCHIE E. BASS, Baltimore, Md., assignor of forty-nine per cent to Ethel Strasmich, New York, N. Y. Filed Nov. 22, 1926. Serial No. 150,084. 13 Claims. (Cl. 140—119.)



1. A device of the character described, for binding one or more articles with wire and thereafter twisting the free ends of the said wire, comprising a supporting member carrying means for gripping said wire on both sides of said article, and instrumentalities carried by said member adapted for co-operation, when the member is moved to forcibly press the gripped wire against said article or articles, to first enclose the latter by the wire, and to thereafter twist the ends of the wire, the one around the other.

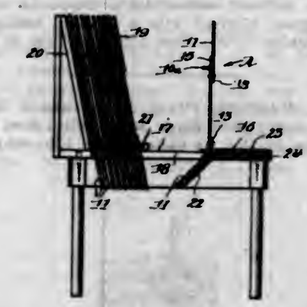
1,684,724. SPRING-SHACKLE ANTIRATTLE ATTACHMENT. HENRY E. BLOMGREN, Brooklyn, N. Y. Filed July 21, 1927. Serial No. 207,349. 7 Claims. (Cl. 7—54.)



1. In a spring shackle, the combination with the spring sleeve and the bracket sleeve connected by the side links and a bolt passing through each sleeve and the links, of a pair of bearing blocks each grooved to engage one said sleeve respectively and channeled on the inner opposed faces, a block of resilient material located between said latter block faces, the resilient block having a conical bore, and a conical bolt in said bore arranged to distend the resilient block to press its engaged blocks outwardly.

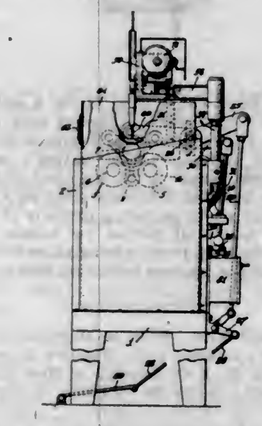
1,684,725. METHOD OF CONSTRUCTING SHIPPING CASES. PAUL F. BOEYE, St. Paul, Minn., assignor to Waldorf Paper Products Company, a Corporation of Minnesota. Filed Nov. 8, 1926. Serial No. 146,872. 3 Claims. (Cl. 93—42.)

1. The method of constructing shipping cases having side and end walls formed from a plurality of blanks, at least one of said blanks having flanges along its opposite edges adapted to overlap the other blanks at the ends of the case, which method consists in first overlapping the several blanks along an edge of each and securing them together while flat, subsequently folding said flanges inward



simultaneously at the opposite edges of said blank, then folding the end walls to final position, then folding the side walls inward to bring said flanges into overlapping relation with the end walls and finally securing said flanges upon the margins of said end walls.

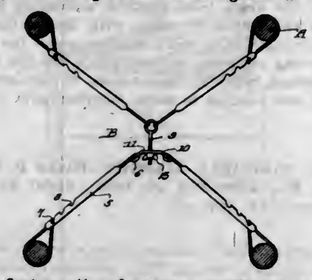
1,684,726. ARC WELDING MACHINE. CLAUDE A. BOWLUS, Birmingham, Mich. Filed Aug. 15, 1925. Serial No. 50,395. 8 Claims. (Cl. 219—8.)



1. A welding machine comprising a rotary support by which a piece of work is moved relative to a movable welding electrode, electrical driven means by which said piece of work and electrode are moved in synchronism, an electric circuit for said electrically driven means, switches in said circuit, manually actuated means for controlling one of said switches, means controlled by a welding cycle of operation adapted to actuate the other switch, and a shield for the welding electrode, said shield being operatively connected to one of said switches so that opening of said shield opens said switch and breaks said electric circuit causing a cessation in the operation of the machine.

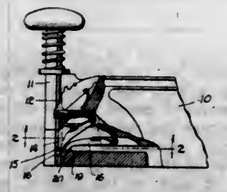
1,684,727. CHAIR-LEG BRACE. JOHN CERNY, St. Anthony, Idaho, assignor of one-half to Edward Cerny, Spokane, Wash. Filed Dec. 28, 1926. Serial No. 157,517. 2 Claims. (Cl. 155—197.)

1. In a chair leg brace of the class described, a member complementary to each leg of the chair and consisting of a flat strip of metal, the outer end portion thereof being bent around the respective chair leg, means for adjustably and detachably securing the outer free end of each strip to the intermediate portion of the strip, and additional means for adjustably connecting the members together at their inner



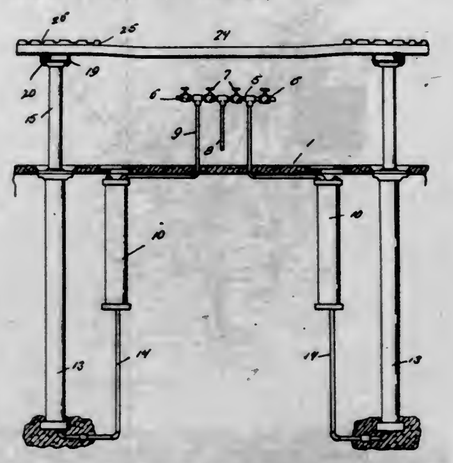
ends, the first mentioned means comprising a hook formed on the outer free end of the strip, the intermediate portion of each strip being formed with a series of spaced notches in one edge thereof with which the hook is adapted to engage.

1,684,728. STAPLE. JOHN B. CROFOOT, Arlington Heights, Ill. Filed Apr. 4, 1927. Serial No. 180,767. 5 Claims. (Cl. 85—17.)



1. A staple strip having a mutilated staple at one end thereof and provided with means arranged to be engaged by the feed mechanism of a stapling machine, whereby said mutilated staple is automatically and positively ejected from said machine.

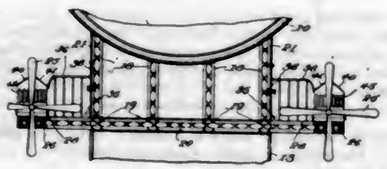
1,684,729. AUTOMOBILE ELEVATING APPARATUS. ROBERT J. DENIO, Oakland, Calif., assignor to Robert Denio, Modesto, Calif. Filed Feb. 1, 1926. Serial No. 85,315. 1 Claim. (Cl. 254—93.)



In an automobile elevating apparatus wherein a cradle is employed to rest under the axle portion of an automobile and is connected with means for elevating and per-

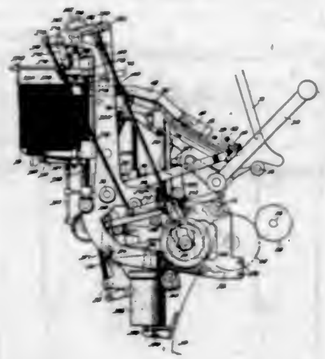
mitting of gravitation of the end portions of the cradle, means constituting one of the connections and comprising angle irons carried by one end portion of the cradle and having upwardly directed lower portions, anti-friction rollers having trunnions disposed under said horizontal portion of the angle iron, shackles straddling said trunnions and connecting the same with the horizontal portions of the angle irons, and a head on one of the elevating means, having confining means therein for the said anti-friction rollers, whereby said rollers in connection with the cradle are enabled to move longitudinally of the apparatus.

1,684,730. DIRIGIBLE AIRSHIP. RALPH P. FOX, Harrisburg, Pa. Filed Aug. 30, 1926. Serial No. 132,650. 3 Claims. (Cl. 244—6.)



1. In a device of the class described, a main hull structure and a keel and gondola structure connected therewith, a series of spaced girders extending transversely of the structure last named and having their ends projecting laterally therefrom, motors mounted on said projecting ends of the girders, lateral extensions carried by the ends of each of the girders, motor supporting means carried by the ends of the girders and by the lateral extensions, and propellers driven by the motors.

1,684,731. PRINTING PRESS. WALTER O. HALL and WILLIAM C. BUCHANAN, Franklin, Mass. Filed Nov. 7, 1924. Serial No. 748,486. 32 Claims. (Cl. 101—287.)

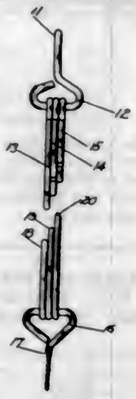


1. Sheet feeding and delivery mechanism for platen printing presses comprising in combination means for feeding sheets to the press, means for taking printed sheets therefrom, and means for rendering said last named means inoperative upon failure to feed a sheet.

1,684,732. MANUFACTURE OF CARBOHYDRATE DERIVATIVES. WILLIAM HARRISON, Manchester, England. Filed Nov. 3, 1927, Serial No. 230,919, and in Great Britain Oct. 30, 1926. 3 Claims. (Cl. 260—100.)

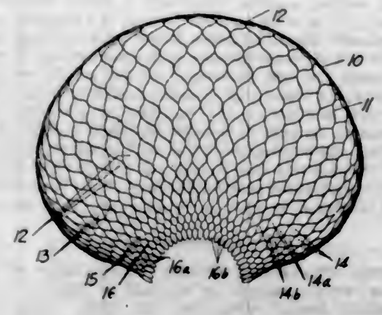
1. The manufacture of carbohydrate derivatives by subjecting to an oxidizing action in a substantially neutral medium a colloidal carbohydrate compound containing the CSS group admixed with a nitrogen hydrogen compound in which at least one hydrogen atom is free.

1,684,733. HARNESS HOOK FOR LOOMS. BENJAMIN HETHERINGTON, Fall River, Mass. Filed Nov. 25, 1927. Serial No. 235,608. 4 Claims. (Cl. 139—88.)



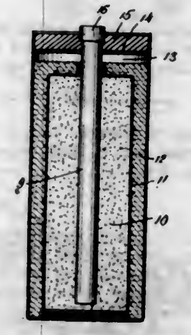
1. In combination with a loom having a series of harnesses, harness straps, jacks, a harness hook comprising in combination a wire member, said wire member having a shank portion, said wire member having a loop formed at one end thereof, means at the other end of said shank for attachment to either a harness strap or a jack, said loop having a horizontal portion, a plurality of individual hooks on said horizontal portion for holding said harnesses, said horizontal portion being of sufficient length to provide clearance for said individual hooks.

1,684,734. HAIR NET. PAUL E. HITZIGRATH, Rockville Center, N. Y., assignor to S. Glemby's Sons Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 10, 1923. Serial No. 624,151. 3 Claims. (Cl. 132—49.)



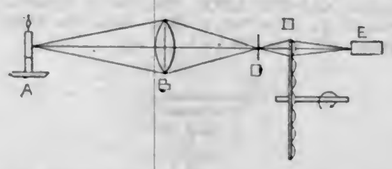
1. A hair net of interwoven strands, having a central portion of relatively large mesh, surrounded by a single row of mesh, a plurality of rows of mesh, another single row, and another plurality of rows of relatively small mesh at its periphery, each single row and set of plurality of rows gradually decreasing in size of mesh to the size of the said relatively small mesh.

1,684,735. DRY-CELL ELECTRODE. HOWARD D. HODGE, deceased, New York, N. Y., by Elvira Wells Hodge, administratrix, Bridgeport, Conn., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Original application filed Mar. 24, 1925, Serial No. 17,858, Patent No. 1,638,995, dated Aug. 16, 1927. Divided and this application filed July 17, 1926. Serial No. 123,236. 2 Claims. (Cl. 136—128.)



1. A dry cell having a seamless zinc cup with a bevelled surface formed at its upper edge on the inner wall whereby lessening of the effective diameter of the cup due to tumbling or rough handling is prevented without increasing the external diameter of the cup, and a relatively thin insulating washer snugly fitting in said cup below said bevelled edge.

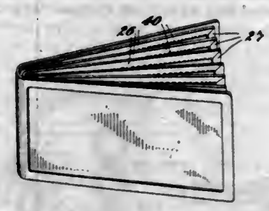
1,684,736. RADIO VISION STUDIO EQUIPMENT. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Mar. 14, 1925. Serial No. 15,585. 1 Claim. (Cl. 178—7.)



In a picture transmission system, a lens for forming a stationary image of the subject whose image is to be transmitted, a light-sensitive cell, and a rotating carrier provided with lenses arranged to cause a succession of images of said stationary image to traverse the light-sensitive cell by adjacent parallel paths.

1,684,737. CARDCASE AND METHOD OF MAKING SAME. CHARLES L'ENFANT, New York, N. Y. Filed Feb. 23, 1927. Serial No. 170,759. 6 Claims. (Cl. 150—39.)

1. A card case including a unit of uniform thickness throughout its entire length comprising a single strip of material foldable intermediate its ends to form leaves, each leaf having an opening, a pair of transversely slotted strips of transparent material superimposed thereon and foldable therewith, and means to secure the parts together at their edges.



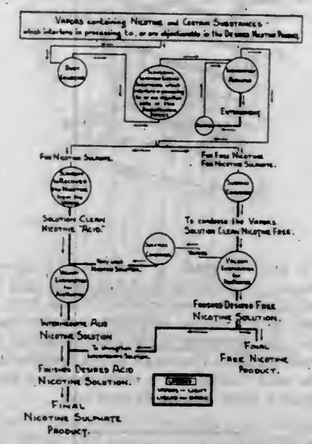
1,684,738. PROCESS FOR THE MANUFACTURE OF PERYLENE. CHARLES HENRI MARSCHALK, Paris, France. Filed Dec. 1, 1924, Serial No. 753,348, and in France Dec. 20, 1923. 4 Claims. (Cl. 260—168.)

1. The manufacture of perylene by heating to distillation a phosphorus ester containing the beta dinaphthol radicle.

1,684,739. MANUFACTURE OF ZIRCON REFRACTORIES. LE ROY HIMES MINTON, Metuchen, N. J. Filed June 27, 1925. Serial No. 40,099. 7 Claims. (Cl. 25—156.)

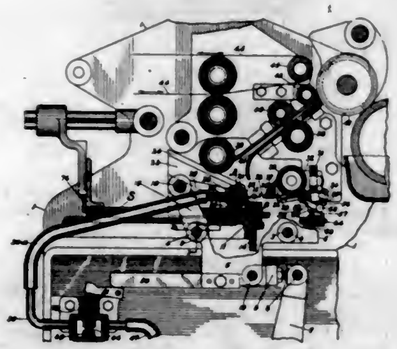
1. The method of making zircon refractories which comprises finely grinding zircon in the presence of water containing an organic deflocculent, adding granular zircon and an organic binder, and shaping and firing the resultant product.

1,684,740. METHOD FOR CLEANSING NICOTINE VAPORS. ROBERT GRAHAM MEWBORNE, Clarksville, Tenn. Filed Feb. 19, 1924. Serial No. 693,948. 38 Claims. (Cl. 260—25.)



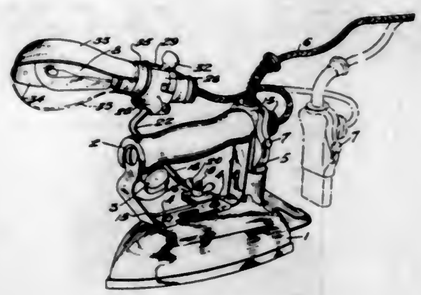
1. The process which comprises treating a stream of vapors containing nicotine and impurities to a stream of alkali solution, maintaining the temperature to prevent condensation of the nicotine and recovering nicotine from the vapors so treated.

1,684,741. SHEET-FEEDING MECHANISM. CHARLES H. NITSCH and JOSEPH W. BAKER, Philadelphia, Pa., assignors to Stokes and Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 19, 1925. Serial No. 3,316. 35 Claims. (Cl. 271—27.)



1. Apparatus for feeding sheets from a stack thereof comprising means engaging the top of the stack adjacent an edge thereof, suction means for picking a sheet from the top of the stack, and means for imparting movement to said suction means in a path inclined with respect to the top of the stack for withdrawing the sheet therefrom.

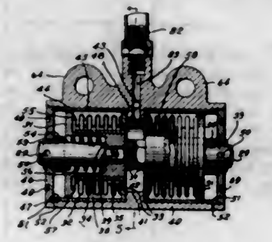
1,684,742. LAMP ATTACHMENT FOR SADIRONS. JAMES E. PICKLESIMER, Atlanta, Ga. Filed July 14, 1925. Serial No. 43,558. 5 Claims. (Cl. 240—2.)



1. In an electric iron, a handle, a lamp-supporting bracket, means for securing said handle to said iron, said bracket including a base attachable to said iron, said base being formed with a lateral extension constituting a clamp, said bracket also including a rod oscillatable in a substantially vertical plane and having a lateral portion adjustably securable in said clamp, and a lamp-receiving portion universally jointed with respect to said rod.

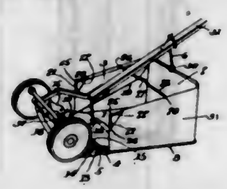
1,684,743. BRAKE SYSTEM. FRANK C. REILLY, New York, N. Y. Filed June 5, 1925. Serial No. 35,108. 13 Claims. (Cl. 188—152.)

1. In a brake system or the like, a power unit comprising opposed relatively movable pressure heads having opposed oversliding hub portions and a corrugate substantially uniformly extensible and contractible shell enclosing the oversliding hub portions and connected with the pressure heads, said hubs being of tubular structure



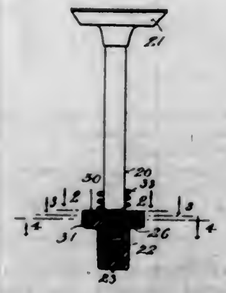
to form an enclosure, a spring within said enclosure, the inner tubular hub having a closed end wall and a power transmitting member connected with said closed end wall.

1,684,744. GRASS CATCHER. JOHN F. REYNOLDS, Pasadena, Calif. Filed Feb. 2, 1926. Serial No. 85,477. 1 Claim. (Cl. 56—200.)



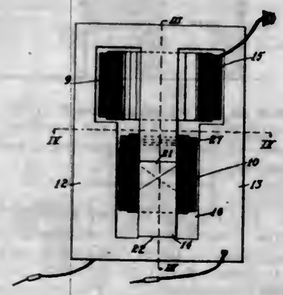
A grass catcher for lawn mowers comprising a metal bottom with seams on the front and sides thereof, a U-shaped wire rigidly held in said seams and having eyes formed at the bends thereof for attachment to a mower, a metal apron hinged to said bottom rearwardly of the front edge thereof and extended forwardly therefrom, a frame comprising a U-shaped member and vertical members pivotally connected together, said vertical members pivotally connected to said U-shaped bottom member, and a fabric receptacle having seams at the margins thereof for receiving said U-shaped member and said vertical members.

1,684,745. ADJUSTABLE LOCKING DEVICE FOR VALVES AND THE LIKE. CHARLES W. ROBERTS, Jr., Nyack, N. Y. Filed Feb. 4, 1926. Serial No. 85,883. 7 Claims. (Cl. 251—134.)



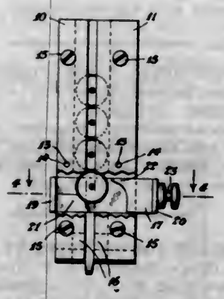
3. In an adjustable locking device for valve stems, a thimble adapted to have a screw threaded connection with the valve stem, teeth on said thimble, teeth engaging holding means adapted to slidably and nonrotatably engage the valve stem for holding the thimble against rotation on the stem and cap means for enclosing said holding means to hold together said holding means and thimble.

1,684,746. TOY TRANSFORMER. BENJAMIN H. SMITH, Swissvale, and ALFRED L. ATHERTON and EMIL H. GREIBACH, Pittsburgh, Pa. Filed Mar. 31, 1926. Serial No. 98,636. 11 Claims. (Cl. 171—119.)



1. A toy transformer comprising a magnetizable member having a central leg and two side legs, a relatively wide air gap between one portion of the legs and a narrow air gap between another portion of the legs, a stationary winding in the wide air gap, a movable winding adapted to surround the central leg and to be slidably mounted thereon, and a magnetizable shunt member mounted on the movable winding and substantially closing the narrow air gap when the movable winding is removed from the stationary winding.

1,684,747. FEED MECHANISM. EDWIN B. STIMPSON, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Filed July 8, 1927. Serial No. 204,166. 1 Claim. (Cl. 218—2.1.)

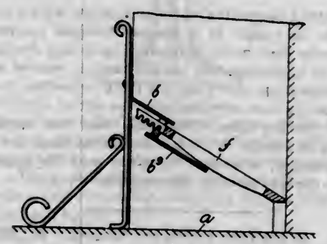


Rivet feeding mechanism comprising a nose piece having a continuous, open feed slot, the feed slot being adapted to receive headed fasteners with their shanks extending through the open slot, and a slide mounted transversely of the nose piece, said slide carrying a stop shoulder spaced downwardly from the upper edge of the slide, the stop shoulder being curved to conform to the shape of the head, and said slide carrying also a cut-off finger located near the top of the slide and spaced laterally from the shoulder, the under side of the cut-off finger being curved inwardly to permit free dropping of the lowermost rivet while the cut-off finger is holding back the next-to-lowest rivet.

1,684,748. SURFACING DISK. HERBERT R. STRATFORD, Cleveland, Ohio, assignor to The Stratmore Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 31, 1927. Serial No. 244,052. 2 Claims. (Cl. 51—279.)

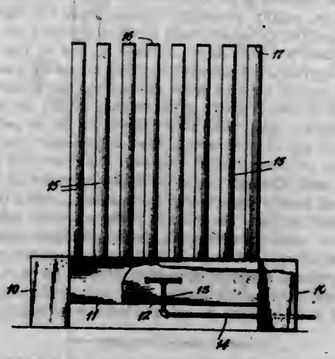
2. A surfacing element consisting of a sheet of cellulose material provided with a layer of abrasive grains adhesively secured to one surface of said sheet, and the latter having a tensile strength of not less than 170 pounds per square inch in one direction and of not less than 85 pounds per square inch in a direction at right angles to the first.

1,684,749. DOMESTIC FIREPLACE. REGINALD O'HALLORAN PRINGLE THEOBALDS, St. Mary Bourne, near Andover, England. Filed Dec. 2, 1925, Serial No. 72,684, and in Great Britain Dec. 4, 1924. 1 Claim. (Cl. 126—164.)



In an open fireplace, the combination with the fireplace side walls and hearth, of a grate including a fuel supporting imperforate front plate raised above the rear portion, said grate extending the width of the fireplace to the side walls thereof and being positioned in spaced relation to the hearth whereby an air supply passage to the rear portion of the grate is constituted by the hearth, fireplace side walls and underneath face of the front portion of the grate, said passage having an unrestricted opening permitting the air entering therethrough to impinge upon the said underneath face of the front portion of the grate.

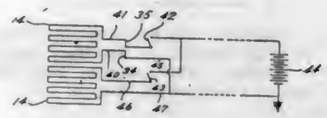
1,684,750. HEATER. CHARLES H. THOMASSON, Richmond, Va. Filed June 10, 1926. Serial No. 115,084. 2 Claims. (Cl. 126—91.)



1. A heater of sheet-metal comprising an elongated hollow body of rectangular section merging into integral supports of similar shape, said body and supports having a flat top lying in a common plane and having an aperture midway of the under side of the body to receive a burner, said body also having a plurality of rectangular openings in its flat top extending approximately from one side of the top to the other, a set of parallel rectangular upright

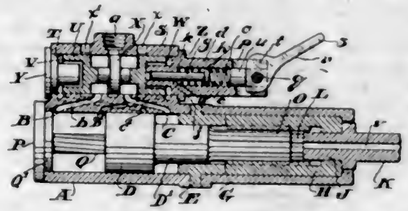
extensions corresponding to said openings and permanently fixed to the body, and sheet-metal closures for the upper ends of said extensions covering the same and hinged along one edge thereof.

1,684,751. BAKING APPARATUS. ROBERT G. TUGENDHAT, Saginaw, Mich., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Dec. 18, 1923. Serial No. 681,329. 4 Claims. (Cl. 219—19.)



3. In baking apparatus, the combination with a plate for material to be baked, of a heating element comprising a strip of resistance metal extending back and forth across the plate in approximately parallel evenly spaced sections having connecting portions at their opposite ends, the strip extending over substantially the entire surface of the plate, and the portions of the strip near the edges of the plate being of smaller cross sectional area than the central portions thereof, whereby the plate may be heated uniformly by current flowing through the strip.

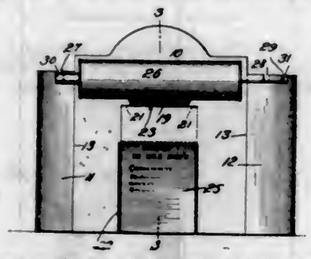
1,684,752. BLOWING DEVICE. RUSSELL H. WILHELM, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 29, 1927. Serial No. 164,478. 1 Claim. (Cl. 121—6.)



In a fluid actuated rock drill of the hammer type, the combination of a cylinder, a hammer piston in the cylinder having a reduced forward extension, a valve chest having a chamber, supply passages leading from the chamber to the ends of the cylinder, plugs forming closures for the ends of the chamber, a plunger slidable in one of the plugs, a pair of springs, one of said springs normally holding the plunger out of contact with the valve, the second spring normally in contact with said plunger, means for actuating the plunger to hold the valve immovable in the valve chest to permit an uninterrupted flow of pressure fluid from a source of supply through the said chamber and a supply passage and through one end of the cylinder to a hollow drill steel, said means comprising a cam, a lever attached to said cam, a plunger in contact with said cam, said second spring in contact with said second plunger, said second spring holding said second plunger in contact with said cam, said cam operable by means of said lever for forcing said second plunger into said plug and mechanically holding said first plunger in contact with said valve.

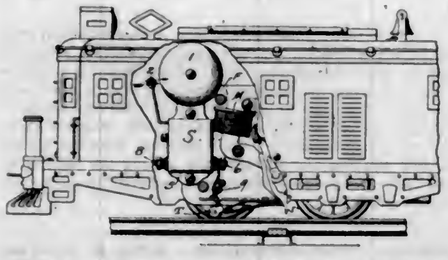
1,684,753. MERCHANDISE-DISPLAY DEVICE. WALTER ZAREKO, Natural Bridge, N. Y. Filed Jan. 30, 1926. Serial No. 84,966. 2 Claims. (Cl. 211—73.)

1. In a merchandise display device, a panel provided with an upwardly extending recess which opens through the lower edge of the panel, said recess adapted to receive a main article to be displayed and which article is independent of the device, a folding section formed integrally with the panel by a piece cut out to provide the recess, said panel having a transverse slit above its recess, and said folding section having an end tab which is inserted in and protrudes forwardly through said slit, said folding section being bent to provide, at the back of the panel, an



easel to rest on the top of said main article, and the forwardly protruding end of said tab providing a support located above the recess for supporting a secondary article to be displayed.

1,684,754. BELL-RINGING TOY LOCOMOTIVE. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1928. Serial No. 250,935. 3 Claims. (Cl. 246—72.)

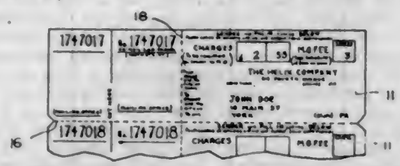


1. In a toy electric locomotive, the combination with the motor and motor frame and a trolley for supplying current to said motor, of an electrical sounding device attached to said motor frame and having one terminal thereof grounded to said frame, and the other terminal of the bell being electrically connected with the said trolley.

1,684,755. SYNTHETIC RESIN FIBER BOARD. ALBERT L. CLAPP, Danvers, Mass. Filed Dec. 22, 1922. Serial No. 608,580. 10 Claims. (Cl. 92—21.)

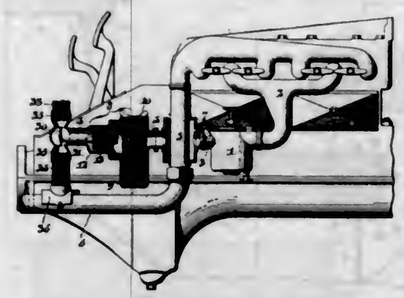
1. A process of producing fiberboard, which comprises incorporating into an aqueous cellulosic pulp, wood flour and pulverized synthetic resin, sheeting the pulp, and subjecting the sheet to heat and pressure.

1,684,756. MEANS FOR SHIPPING BY PARCEL POST. WILMOT S. CLOSE, Brooklyn, N. Y., assignor to Ad-Tape Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 18, 1926. Serial No. 89,012. 6 Claims. (Cl. 282—27.)



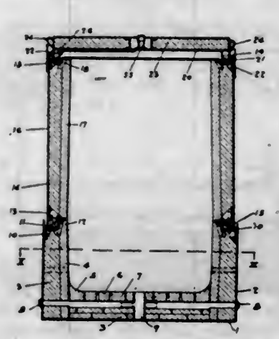
1. C. O. D. manifolding postal shipment forms comprising, in combination, a sheet divided into separable coupons each appropriately designated with indicia to constitute an address label for a C. O. D. postal package, another sheet also divided into separable coupons, each coupon of which is provided with parts appropriately designated with indicia to constitute complete labeling for both the money order and postman's receipt sections of a C. O. D. postal shipping tag, said tag labeling corresponding in form and indicia with a C. O. D. tag, such that said tag labeling may be pasted on said tag on both said sections, and a third sheet accordingly divided into sections each of which is appropriately designated with indicia to constitute a postal shipment receipt.

1,684,757. AUTOMATIC HUMIDIFYING DEVICE. WILLIAM B. COLEMAN, Philadelphia, Pa. Filed Aug. 25, 1921. Serial No. 495,391. 1 Claim. (Cl. 261—39.)



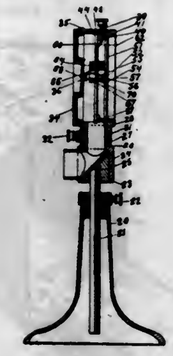
In an automatically regulated humidifying apparatus for the air supply of an internal combustion engine, a humidifier, an intake conduit for said humidifier having hot and cold air inlet branches, a valve inversely controlling said branches whereby to proportion the relative amounts of hot and cold air entering said conduit, a thermostat in said conduit and actuated by the temperature prevailing therein, a connection between said thermostat and said valve whereby to automatically maintain a predetermined temperature of air in said conduit, an outlet conduit for said humidifier, and a superheater in said outlet conduit whereby to maintain the air supply delivered therefrom at above the point of saturation.

1,684,758. CYANAMIDE OVEN. GEORGE E. COX, Niagara Falls, N. Y., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed June 17, 1925. Serial No. 37,695. 10 Claims. (Cl. 23—78.)



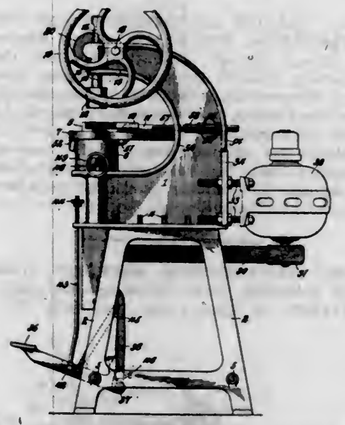
1. Apparatus for making a block of calcium cyanamide and other materials which comprises an oven base having a side wall section secured thereto an upper side wall section thereon and a sand seal at the junction of said sections.

1,684,759. DEVICE FOR THE REPRODUCTION OF WAVE MOTION. HERBERT GROVE DORSEY, Gloucester, Mass. Filed Sept. 21, 1923. Serial No. 664,087. 6 Claims. (Cl. 181—0.5.)



5. In an apparatus for showing wave motion, the combination of a diaphragm, a vibratable reflecting means associated therewith, a second reflecting means positioned to throw a beam of light on said first reflecting means and thence to a third rotating reflecting means having adjustable governed speed.

1,684,760. RING-JOINT MACHINE. WILLIAM LEWIS EVANS, Washington, Ind. Filed Nov. 10, 1926. Serial No. 147,529. 10 Claims. (Cl. 144—2.)

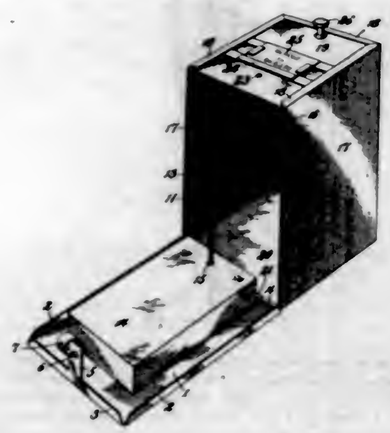


1. In a woodworking machine the combination of a frame; a table supported on the frame; means for holding the work on the table; a rotatable cutter beneath the table; means for projecting the cutter into engagement with the underside of the work; said table having a plurality of holes of different sizes corresponding to the cutters which may be used, the table being movable to align any one of the holes with the cutter.

1,684,761. FILING CABINET FOR PRESCRIPTIONS, ETC. JOSEPH F. BARTOSH, Weimar, Tex., assignor of one-half to Frank Kahlik, Weimar, Tex. Filed June 23, 1925. Serial No. 39,045. 3 Claims. (Cl. 129—23.)

1. A filing cabinet comprising a flat base member having upstanding, marginal flanges along the front and side edges thereof, a locking tongue integral with one of said

flanges, an upstanding post mounted on the rear of the base for holding and alining prescriptions or the like, a box-like cover having a top wall and front, rear and side walls joined thereto, the rear wall being hinged along

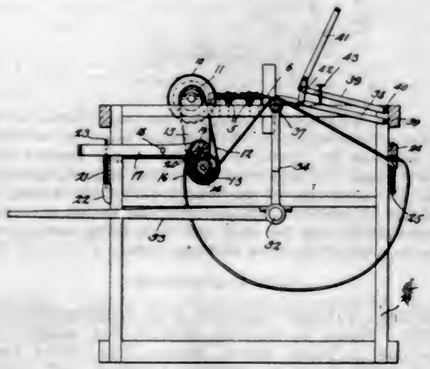


its free edge to the rear edge of the base, one of said walls presenting locking means cooperating with said locking tongue and the free edges of the front and side walls fitting within the said flanges when the cover is lowered.

1,684,762. YELLOW AZO DYESTUFF AND PROCESS OF PREPARING THE SAME. ERICH FISCHER and CARL ERICH MÜLLER, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 20, 1927, Serial No. 185,356, and in Germany May 3, 1926. 3 Claims. (Cl. 260—96.)

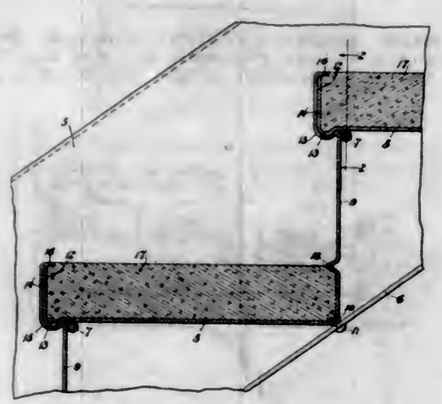
1. The process of preparing a yellow azo dyestuff, particularly suitable for dyeing and printing acetate silk, which consists in coupling diazotized para-nitraniline with 1-nitro-2.4-diaminobenzene.

1,684,763. TIRE-SPLITTING MACHINE. WILFRED G. FRITTS, Lexington, N. C. Filed Apr. 18, 1927. Serial No. 184,667. 8 Claims. (Cl. 164—49.)



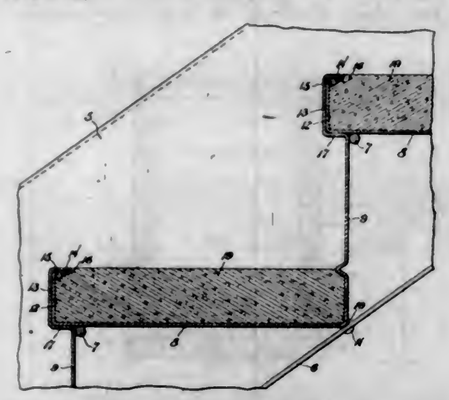
1. A machine for splitting tires including a knife, means for supporting an endless tire in position for engagement by the knife, means for pulling the tire while in engagement with the knife, means for reciprocating the knife transversely of the engaged portion of the tire, and means for gripping the tire to hold it taut during the pulling action.

1,684,764. STAIR CONSTRUCTION. ELMER HEDEEN, Mansfield, Ohio, assignor to The Hughes-Keenan Company, Mansfield, Ohio, a Corporation of Ohio. Filed July 18, 1927. Serial No. 206,601. 3 Claims. (Cl. 189—43.)



2. A stair construction comprising, in combination, a series of interlocked sheet metal step elements each providing a horizontal support for the tread of a step and the riser above said tread; each riser having a bead projecting over the tread below and also having an inturned flange projecting over the tread next above; and a tread placed upon each sheet metal step element and locked mechanically in position by engagement with the bead on the riser of the supporting step element and with the inturned flange of the step element immediately beneath.

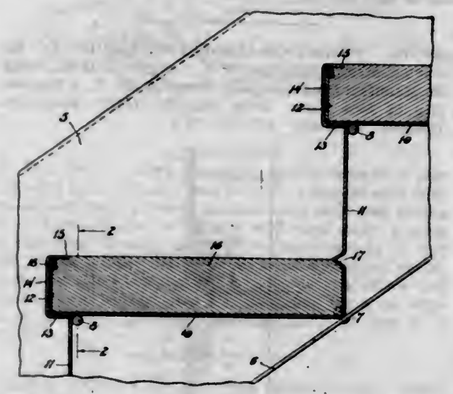
1,684,765. STAIR CONSTRUCTION. ELMER HEDEEN, Mansfield, Ohio, assignor to The Hughes-Keenan Company, Mansfield, Ohio, a Corporation of Ohio. Filed Aug. 23, 1927. Serial No. 214,955. 2 Claims. (Cl. 189—43.)



1. A sheet metal element for the construction of stairs, comprising a tread portion and a riser portion; an upstanding flange extending longitudinally along the outer

edge of the tread portion substantially at right angles thereto; an inturned flange provided at the upper end of the riser portion to project somewhat over the tread portion of the adjacent stair element; and a bead made fast underneath said inturned flange so spaced from the the vertical plane of the adjacent riser portion that there is sufficient room to receive the upstanding flange of the adjacent, higher stair element.

1,684,766. METALLIC STAIR. ELMER HEDEEN, Mansfield, Ohio, assignor to The Hughes-Keenan Company, Mansfield, Ohio, a Corporation of Ohio. Filed Nov. 10, 1927. Serial No. 232,414. 3 Claims. (Cl. 189—43.)



2. In a stair construction, in combination, a plurality of assembled and interlocking metal members each consisting of a tread portion and a riser portion; each tread portion having an upstanding flange; each riser portion having an upright offset portion against which the aforesaid flange may be abutted, and a flange projecting over the upper edge of the upstanding flange of the adjacent tread portion; the flange last named having projecting tangs struck out from the metal thereof and extending downwardly and spaced sufficiently far from the upright offset portion to receive the upstanding flange of the tread portion; the tangs preventing outward movement of each riser and inward movement of each tread.

1,684,767. ROTARY VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. GEORGE E. HOTTENSTEIN and GEORGE E. HOTTENSTEIN, Jr., Spokane, Wash. Filed Nov. 27, 1925. Serial No. 71,740. 2 Claims. (Cl. 123—59.)



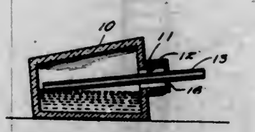
1. In a rotary valve for internal combustion engines, a casing having a bore tapering from end to end and having ports communicating with the cylinders of the engine, a valve within said casing and having ports for alignment with the ports communicating with the engine, means for rotating said valve and yieldably shifting the valve longitudinally toward the smaller end thereof, the larger end of said valve projecting from the bore and having attached thereto a driving element, a casing for the driving element including an adjustable plug coaxial with the valve and a spring engaged at one end with the plug and at its opposite end operatively engaging the valve and constituting said means for yieldably shifting the valve longitudinally toward the smaller end thereof.

1,684,768. LIVE-LINE-TESTING DEVICE. GEORGE ARTHUR ILER, Cleveland, Ohio. Filed Nov. 4, 1924, Serial No. 747,839. Renewed Feb. 14, 1928. 5 Claims. (Cl. 175—183.)



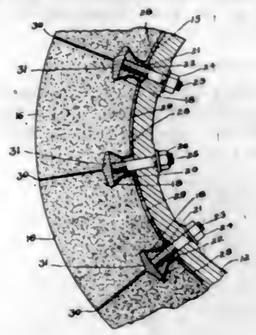
1. A testing device for electrical faults comprising a support carrying a metal contact element, and an electrical measuring device carried by said support and having an antenna terminal connected with said contact element, said device also including a triode vacuum tube, sources of electrical energy and a voltmeter, the device being free from a ground connection.

1,684,769. CONTAINER FOR TESTING DEVICES. LESTER P. JACKSON, El Paso, Tex. Filed Mar. 10, 1927. Serial No. 174,276. 1 Claim. (Cl. 215—79.)



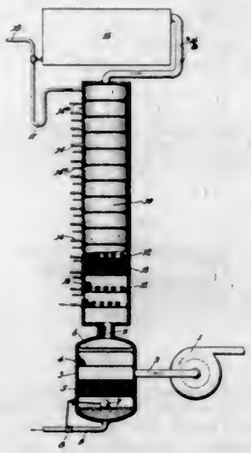
A tire valve tester comprising a transparent container designed to receive a liquid, said container being of inverted frusto-pyramidal design and closed at each end, a relatively small nipple extending from the center of the larger end of the container and communicating with the interior thereof, a cap removably engageable over said nipple, and a tube carried by said cap and extending axially of the interior of the container to a point adjacent the smaller or lower end thereof, said cap having an air outlet aperture therethrough in close proximity to the tube, the container being so constructed that when it is approximately half filled with a liquid and laid upon one side, the liquid will not enter the tube or pass through said aperture.

1,684,770. SEGMENTAL GRINDING WHEEL. THURE LARSSON, Worcester, Mass. Filed Oct. 24, 1924. Serial No. 745,713. 1 Claim. (Cl. 51—207.)



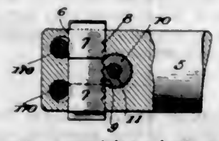
A grinding wheel comprising a rotatable drum having a cylindrical surface, abrasive segments which have dovetailed portions providing faces fitting on the drum and extensive angularly arranged plane clamping faces, a set of alternately arranged locating and clamping blocks on the drum positioned between adjacent pairs of segments, said blocks having extensive faces contacting with said clamping faces of the segments, means for holding the locating blocks fixedly in position to locate the segments therebetween and means for adjusting the positions of the clamping blocks to draw the segments securely against the locating blocks and fasten them securely on the drum.

1,684,771. PROCESS OF TREATING AND FRACTIONATING CRACKING-PLANT VAPORS. EUGENE H. LESLIE and EDWIN M. BAKER, Ann Arbor, Mich. Filed May 11, 1923. Serial No. 638,176. 1 Claim. (Cl. 196—72.)



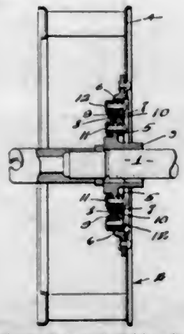
In a process of obtaining valuable products from mineral oil the steps which comprise conducting superheated hydrocarbon vapors from a vapor phase cracking plant into the lower part of a fractionating column and effecting countercurrent contacting between such vapors and a liquid condensate, and refluxing to the upper part of said column a substantial portion of the vapors leaving said column, thereby providing liquid condensate for said countercurrent contacting.

1,684,772. BORING BAR. HOWARD H. MANNING, Meadville, Pa., assignor to McCrosky Tool Corporation, Meadville, Pa. Filed Nov. 22, 1924. Serial No. 751,628. 8 Claims. (Cl. 77—58.)



6. A rotary cutter comprising a body, adjustable cutters associated with the body and having serrations, and an adjusting device having one face thereof provided with intersecting serrations defining facets engaging the serrations of said cutters.

1,684,773. VIBRATION-ABSORBING ELEMENT. EDWARD S. MARKS, Syracuse, N. Y., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y., a Corporation of New York. Filed May 12, 1926. Serial No. 108,503. 2 Claims. (Cl. 64—96.)



1. The combination of a rotatable shaft and rotatable wheel comprising a hub mounted on the shaft and having an outwardly extending annular flange, a rim having an inwardly extending annular flange lapping the former flanges, the lapping portions of the flanges being reduced in thickness so that the outer surfaces of the flanges are substantially flush, disks of fibrous material mounted on opposite sides of the flanges and the lapping portions thereof, fastening means extending through the flange on the hub and the disks, additional fastening means extending through the flange on the rim and the disks, the lapping portions of the flanges being located between said fastening means.

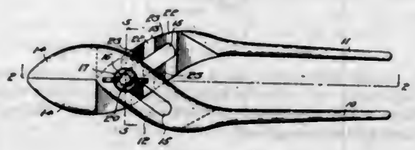
1,684,774. HAIR WAVER. HAZEL M. MONTEALEGRE, Iola, Kans. Filed Feb. 11, 1927. Serial No. 167,506. 3 Claims. (Cl. 132—43.)



1. A hair waver comprising a length of wire bent into zigzag form and presenting rounded loop portions upon opposite sides, between which a wisp of hair is adapted to be

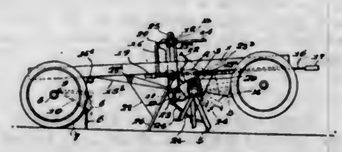
woven, said wire presenting an end portion about which the end of the wisp is adapted to be wound to produce a bob curl; an eye portion formed on said end; and an elastic band carried in said loop portion and adapted to be stretched over opposite sides of said zigzag portion to hold the woven wisp in place.

1,684,775. PLIERS. WALTER M. NEIKIRK, Paducah, Ky., assignor to Southern Textile Machinery Company, Paducah, Ky., a Corporation of Kentucky. Filed May 4, 1927. Serial No. 188,774. 5 Claims. (Cl. 294—44.)



1. In a pair of pliers convertible into a wrench, a pair of handles each having a body portion, a jaw on each body portion, said body portions crossing each other and having slots therein adapted to register with each other, a pivot pin extending through and slidable longitudinal movement of the pin in said slot when the tool is to be used as pliers, and means on said body portion for preventing the same turning on said pivot pin when the tool is to be used as a wrench.

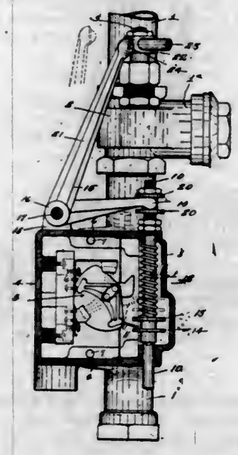
1,684,776. SAFETY DEVICE FOR MOTOR CARS. SHINKICHI NISHIDA and MINORU OTA, Tokyo, and GENSUKE INOSE, Takinogawa-Machi, near Tokyo, Japan, assignors to Goshikaisha Jidosha Kyujoki Seisakusho, Tokyo, Japan, a Company of Japan. Filed Mar. 14, 1925, Serial No. 15,626. Renewed Aug. 6, 1928. 4 Claims. (Cl. 180—83.)



1. A motor car having a supporting leg, said leg having a pivot mounted on the car for vertical movement, a spring pressing the pivot of said leg downwardly, a reel or drum connected by means of a cable to said leg, a handle operatively connected to said reel, a means for normally holding the reel in the required position the said leg to be held in raised position, a fender element, and means connected to said fender element for allowing the leg to fall when the fender bar strikes against any object.

1,684,777. UNITARY CONDUIT AND SWITCH SUPPORT FOR GASOLINE-SERVING STATIONS. RAYMOND H. OLLEY, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Dec. 4, 1923. Serial No. 678,550. 1 Claim. (Cl. 200—53.)

In a device of the class described, the combination of a conduit, a valve including a valve casing in the conduit, a switch housing mounted on the conduit and arranged at one side thereof so that the conduit is a by-pass around the housing, valve operating means carried by the valve casing, a switch, a cover for the switch housing carried by the switch housing, switch operating means carried by the cover and including a portion located in the cover and

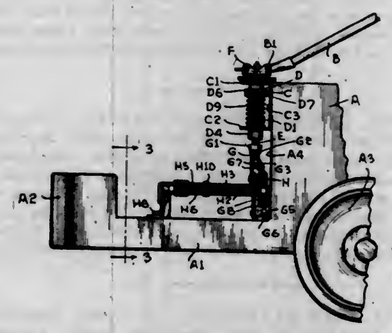


removable as a unit therewith, each of said operating means including a part, one of which extends into the path of the other to be operated thereby.

1,684,778. MORDANT AZO DYESTUFFS AND PROCESS OF PREPARING THEM. ALFRED PHILIPS, Frankfort-on-the-Main, and MARTIN DABELOW, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 19, 1927, Serial No. 185,065, and in Germany Apr. 27, 1926. 6 Claims. (Cl. 260—95.)

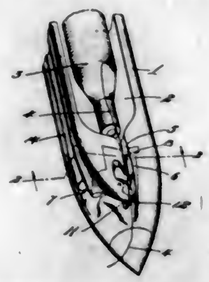
1. The process of preparing mordant dyestuffs by combining the diazo compound of an ortho-aminohydroxy compound of the aromatic series with 2.6-dihydroxynaphthalene-3-carboxylic acid.

1,684,779. ELECTRIC LOCOMOTIVE. CHARLES O. BOWEN, Dora, Ala., assignor to Walter B. Miller, trustee, Wallins Creek, Ky. Filed May 22, 1926. Serial No. 111,060. 20 Claims. (Cl. 191—68.)



1. In an electric locomotive, the combination of a pivoted trolley pole, downward-acting elastic means constantly tending to tilt the pole to lift its free end, and operator-actuated means adapted to act upward in opposition to said elastic means to cause the tilting of said pole to lower its free end, substantially as described.

1,684,780. SELF-THREADING SHUTTLE. CHRISTY RICARD, Woonsocket, R. I. Filed Oct. 4, 1926. Serial No. 139,358. 7 Claims. (Cl. 139—223.)



1. In a self-threading shuttle, a threading block having a longitudinal thread receiving passage, and positive locking means located at opposite ends of said block to prevent the removal of the thread from said passage.

1,684,781. SELF-THREADING SHUTTLE. CHRISTY RICARD, Woonsocket, R. I. Filed Sept. 9, 1927. Serial No. 218,409. 1 Claim. (Cl. 139—223.)



In a self-threading shuttle, a thread block having a longitudinal thread receiving passage provided adjacent to one end thereof with a transverse groove, a curved resilient thread lock located within the passage in said block adjacent to one end of said passage so positioned as to permit insertion of the thread beneath the curved thread lock by downward movement of the thread within the passage and having the end thereof lying within the groove formed in the wall of said passage, a portion of said thread block forming one wall of said thread receiving passage and provided with a depression located adjacent to the opposite end of said passage from the curved thread lock, and a downwardly inclined projection extending across said passage and having the end thereof located within the depression.

1,684,782. PROCESS FOR THE MANUFACTURE OF DOUBLE CARBONATE OF SODIUM AND MAGNESIUM. HANS RUBINSTEIN, Vienna, Austria. Filed Sept. 23, 1926. Serial No. 137,391. 9 Claims. (Cl. 23—61.)

1. A process for the manufacture of double carbonate of sodium and magnesium, which consists in treating magnesium carbonate in the presence of an alkali metal chloride under heat with an excess of soda in the form of a solution.

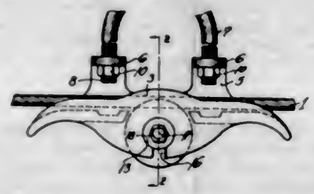
1,684,783. EAR ORNAMENT. ROY SPEAR, Titusville, Fla. Filed Nov. 20, 1925. Serial No. 70,347. 1 Claim. (Cl. 63—14.)

An ear ornament comprising a length of wire bent upon itself to provide a spring loop having the ends thereof obliquely disposed therefrom, shoulders inwardly offset from said ends above the loop, a U-shaped kink provided upon one of the shoulders adapted to receive the companion shoulder therein, arms projected from the extremities of the shoulders being oppositely converged to dispose the extremities thereof in juxtaposition, and the extremities



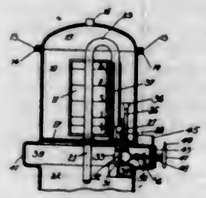
of the arms being bent upon themselves to provide loop portions upon the opposite sides thereof and within which portions of ear lobes may be held incident to the resiliency afforded by the spring loop.

1,684,784. WIRE CLAMP. CHARLES J. WELLER, Conlee, Wash. Filed Jan. 7, 1927. Serial No. 159,563. 4 Claims. (Cl. 175—376.)



3. The combination with a bracket, a suspending yoke, and means for clamping a wire between the yoke and bracket, of a guide pulley supported in the bracket, removable bearings for said pulley, and means for clamping said bearings in the bracket.

1,684,785. LIQUID-MEASURING APPARATUS. ROY FREDERICK MAURICE WERKING, Bondi, near Sydney, New South Wales, Australia. Filed Feb. 21, 1921, Serial No. 446,800, and in Australia Mar. 25, 1920. 9 Claims. (Cl. 221—100.)



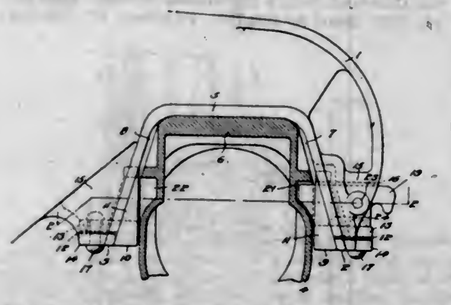
1. In a liquid supply apparatus, a measuring vessel having opposed windows, an inlet pipe and a delivery outlet for said vessel, a control cock for said outlet, arcually arranged overflow pipes extending into the said vessel, an independent control cock for each overflow pipe, a return pipe common to said overflow pipes, and controlling mechanism comprising an arcually traversable stem adapted to engage and operate in turn any one of all said cocks.

1,684,786. BUCKLE. HENRY P. BALTZER, Hamburg, N. Y. Filed Dec. 13, 1927. Serial No. 239,686. 11 Claims. (Cl. 24—163.)



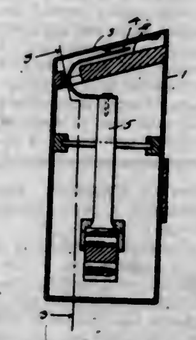
1. A buckle for connecting two spaced parts, comprising a fitting attached to one of said parts, a frame to which the other part may be detachably secured, and a member extending from said fitting and one which said frame is rotatably connected to turn transversely about the same to permit said part secured thereto to turn in a like manner relatively to said other part.

1,684,787. SIDE FRAME. DONALD S. BARROWS, Rochester, N. Y. Filed Mar. 10, 1927. Serial No. 174,287. 9 Claims. (Cl. 105—220.)



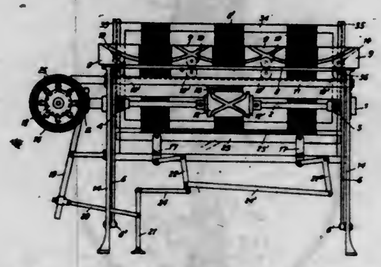
1. A side frame having jaws adapted to straddle a journal box and means adapted to be secured to the inner surface of one of said jaws, and formed with an outstanding flange adapted to be secured to a supporting web of said jaw, for exactly maintaining the desired effective distance between said jaws.

1,684,788. INCLINATION INDICATOR. JOHN W. BELL, Ogdensburg, N. Y. Filed Sept. 25, 1924. Serial No. 739,910. 1 Claim. (Cl. 33—215.)



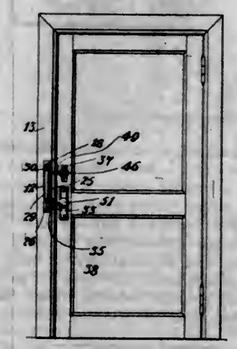
A device of the class described comprising a casing, a pendulum journaled within the casing substantially midway of the ends thereof, an inclined wall adjacent the top of the casing provided with a scale, said wall having an opening therethrough nearer one side than the other side, a substantially horisontally disposed U-shaped pointer, the bridge of said pointer extending through said opening and the terminals being disposed on opposite sides of said wall, the lower terminal being attached to the top of said pendulum out of line with said opening, the other terminal extending over said inclined wall, the latter terminal being deflected away from the first terminal to accord with the inclination of the wall and a cover on said inclined wall covering said opening, said cover being provided with an opening disalined with the aforesaid opening through which the pointer may be observed.

1,684,789. LOOM. CHARLES BILHARTZ, Strasbourg, France. Filed Sept. 23, 1925, Serial No. 58,149, and in Switzerland Dec. 22, 1924. 2 Claims. (Cl. 139—78.)



1. In a loom, a frame having vertical guide grooves, bars having their ends slidably mounted in said grooves, heddle frames slidably mounted in said grooves and each connected to and mounted on one of said bars, a pair of bell crank levers for each of said bars pivotally mounted on said frame, links connecting said bell crank levers to said bars, links connecting said bell crank levers together in pairs, an operating lever for each of said bars pivotally mounted at one end of the frame at a point intermediate its ends, a second lever associated with each of said operating levers and having a fixed pivot, connecting means between each of said operating levers and one of said second levers, a link connecting each of said second levers to one bell crank lever of each pair, a drum mounted for rotation, bars removably mounted on the periphery of the drum and rollers revolubly mounted on said removable bars, said rollers being arranged to engage and actuate said levers.

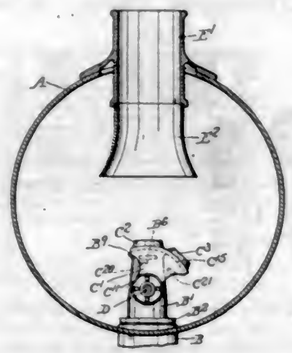
1,684,790. SAFETY DOOR FASTENER. CHARLES BRAND, White Plains, N. Y., assignor, by direct and mesne assignments, to Ajax-Brand Lock Corporation, New York, N. Y., a Corporation of New York. Filed July 23, 1927. Serial No. 207,889. 6 Claims. (Cl. 292—278.)



1. In a safety door-fastener, in combination, a frame-plate; an eye-shaped member extending from the frame-plate; a bolt having a longitudinal slot therein suspended from said eye; means for removably fastening the free end of the bolt of the frame-plate; a door-plate; a rigid pivotal latch carried by the door-plate, the free end of the latch

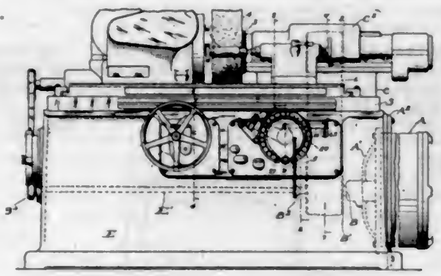
being slidably movable within said slot and removable therefrom only at the suspending end of the bolt when the bolt is moved away from said latch and means for fastening the latch at a predetermined position within the slot.

1,684,791. DUPLEX NOZZLE FOR LOCOMOTIVES. ROBERT R. BUSH and CHARLES W. DAKE, Chicago, Ill., assignors to Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 6, 1926. Serial No. 139,952. 6 Claims. (Cl. 230—100.)



1. The combination with a locomotive exhaust pipe of a multiple nozzle member pivoted thereto, a plurality of nozzles associated with said member, said member including web sections extending downwardly about the exhaust pipe and trunnioned to the exterior thereof.

1,684,792. GRINDING MACHINE HAVING BALANCED SPINDLE. SOL EINSTEIN, Cincinnati, Ohio, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 1, 1924. Serial No. 696,196. 7 Claims. (Cl. 51—165.)



1. A grinding machine comprising a bed provided with a horizontal guideway; a head translatably supported on said guideway; a spindle journaled in said head; a grinding-wheel and a pulley spaced apart on said spindle; a belt-drive exercising a rearward pull on said pulley; and a feed-screw arranged substantially midway between said wheel and pulley and substantially in the horizontal and vertical planes of said guideway as to act as a fulcrum and balance the head against twisting under the pull of the belt and the pressure of the grinding-wheel on its work.

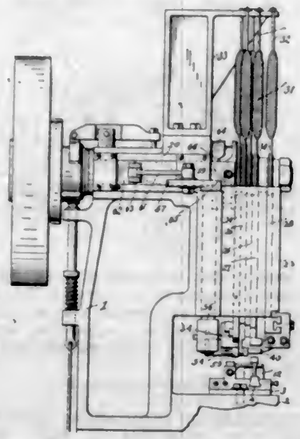
1,684,793. BAG CLOSURE. ALBERT B. FISHWICK, Cincinnati, Ohio. Filed Nov. 12, 1923. Serial No. 674,226 14 Claims. (Cl. 150—3.)

1. A bag closure for lined bags comprising in combination with a bag having flat parallel sides and open entirely across one end with a lining extending to the opening and folded inwardly on both sides to leave free flaps, metallic loops arranged along both edges of the opening, whereby when the edges are closed together, the loops will be



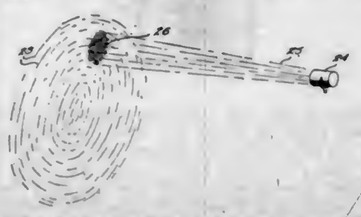
brought into line, and a linear member inserted through the loops to retain them in line, with the free flaps acting automatically as a seal.

1,684,794. METAL-BENDING MACHINE. SAMUEL H. GIBSON, Cleveland, Ohio, assignor to The Fanner Mfg. Co., Cleveland, Ohio, a Corporation of Ohio. Filed June 16, 1922. Serial No. 568,779. 7 Claims. (Cl. 153—13.)



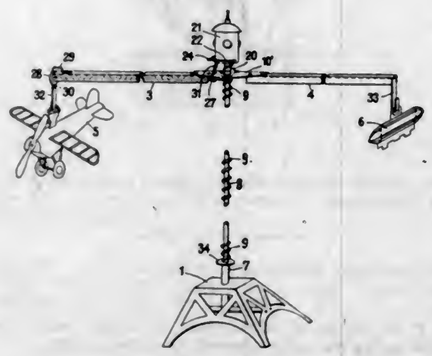
6. In a machine of the class described, the combination with cooperating stationary and movable dies, of cutters adjustably mounted with respect to said dies to vary the size of the blank operated upon, and auxiliary transversely movable forming members cooperating with said dies, said stationary and movable dies being detachably mounted whereby they can be replaced with larger or smaller dies, and said auxiliary formers being adjustable bodily toward and from the axis of said dies to coact with larger or smaller dies.

1,684,795. DISPLAY METHOD. ALFONSO GNUDI, Bologna, Italy. Filed Oct. 3, 1924. Serial No. 741,482. 2 Claims. (Cl. 88—24.)



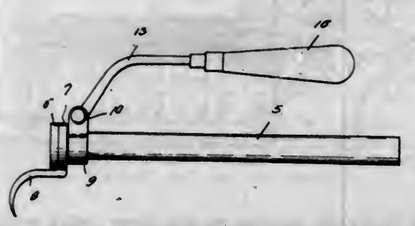
1. The herein described method which comprises projecting a beam of light into the atmosphere and moving it rapidly and continuously over a given area in the same plane to create in effect a screen of light of substantial area, and projecting a set of light rays of another color against such screen at an angle thereto and at points where there is no abnormal presence of particles by which the paths of the light rays may be traced.

1,684,796. TOY ROUNDABOUT. GEORG HABICHT, Nuremberg, Germany, assignor to the Firm Bing-Werke, vorm. Gebr. Bing Aktiengesellschaft. Filed Aug. 15, 1927, Serial No. 212,997, and in Germany Dec. 31, 1926. 6 Claims. (Cl. 272—31.)



1. A toy roundabout comprising a stationary threaded spindle, a girder provided with thread-engaging means adapted to rotate bodily about said spindle, a model of an air craft comprising propelling means attached to said girder, a check on said spindle, and mechanism on said girder adapted to be operated by said check in a given relative position of said spindle and said girder so as to reverse the fore-and-aft position of said model.

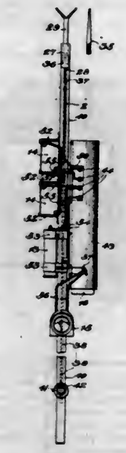
1,684,797. WIRE PULLER AND TWISTER FOR CONCRETE FRAMEWORK. THOMAS J. HOWSON, Marshfield, Oreg. Filed June 30, 1927. Serial No. 202,586. 3 Claims. (Cl. 140—123.5.)



1. In a wire pulling and twisting device of the character described, a hollow bar member, a forwardly projecting foot swivelly arranged upon the inner end of the bar to provide a fulcrum for the bar, a handle lever pivoted adjacent the forward end of the bar and a clamping foot associated with the lever and extending into the bar for clamping the ends of the wire within said bar.

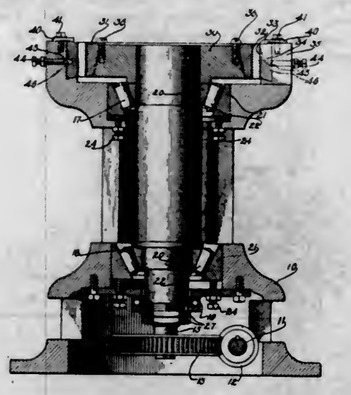
1,684,798. LIVE-LINE AND INSULATOR TESTING DEVICE. GEORGE A. ILER, Youngstown, Ohio. Filed Aug. 14, 1924. Serial No. 732,071. 7 Claims. (Cl. 175—183.)

1. A testing device for electrical faults comprising a portable support carrying a contact element, means including said contact element for forming a spark gap, means for adjusting said gap, a pick-up conductor adjacent said gap



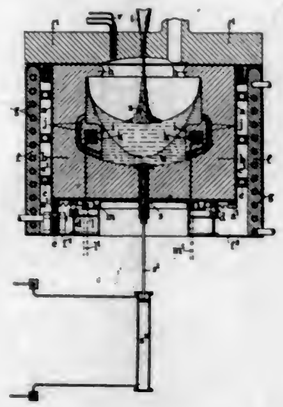
and a detector circuit connected with said conductor and including means for indicating the presence of the spark at the spark gap.

1,684,799. THREAD-ROLLING MACHINE. FREDERIC S. KOCHENDORFER, River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 29, 1924. Serial No. 734,838. 4 Claims. (Cl. 80—7.)



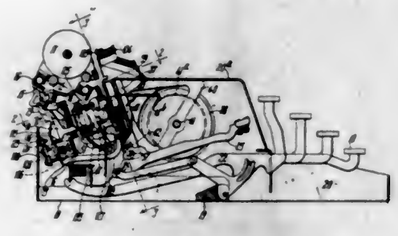
1. In a machine for forming screw threads or the like, a continuous circular die member having a tapered interior wall, a plurality of stationary arcuate dies positioned thereabout and co-operating therewith, a shaft, a circular head carried thereby and having a tapered exterior wall for engaging the tapered interior wall of and thereby supporting the circular die, means for rotating the shaft and thereby the circular die, means associated with the stationary dies for feeding blanks between the co-operating dies, and means carried by the circular die and co-operating with the feeding means to continually insure the simultaneous presence of three equi-distantly spaced blanks between the stationary and circular dies thereby relieving the shaft of unequal stresses.

1,684,800. CENTRIFUGAL LIQUID CRUCIBLE. JUVENAL MAXIMOFF and MARIA STELLA DE COSTA, née VINCENT, Huningue, France. Filed Oct. 23, 1926, Serial No. 143,682, and in France Dec. 24, 1925. 9 Claims. (Cl. 263—36.)



1. An apparatus for forming liquid crucibles, comprising a vessel provided with a refractory lining, said vessel being adapted to contain molten metal to form the crucible, an electrical conductor embedded in said lining, and means for rotating the vessel.

1,684,801. TYPEWRITING MACHINE. LOUIS A. NEMCOVSKY, New York, N. Y., assignor, by mesne assignments, to Sun Typewriter Company, New York, N. Y., a Corporation of New Jersey. Filed July 15, 1924. Serial No. 726,063. 12 Claims. (Cl. 197—97.)



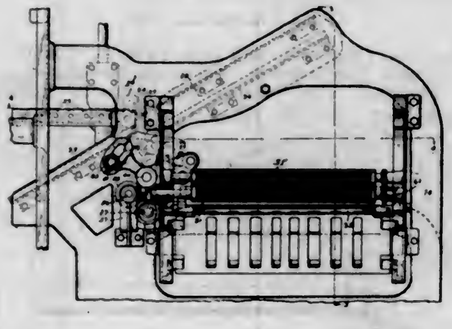
7. In a portable typewriting machine, the combination with a base-frame having a segment-plate secured thereto for pivotally supporting a series of type-bars and a case-shifting frame to support a platen-carriage and an escapement-mechanism for the carriage, of a universal bar curved about the stationary segment-plate to be operated by the type-bars and formed with extensions that project rearwardly at each side of the escapement-mechanism to provide a working clearance space between them for the rise and fall of said escapement-mechanism in case-shifting, and means for pivotally securing said universal bar as a unit to the rear of the stationary segment for a swinging parallel motion between the type-bars and the escapement-mechanism to uniformly actuate the latter at any case-shift position thereof.

1,684,802. FENCE POST. NED A. OCHILTREE, Omaha, Nebr., assignor to Concrete Engineering Company, Omaha, Nebr., a Corporation of Nebraska. Filed Jan. 30, 1928. Serial No. 250,368. 4 Claims. (Cl. 189—23.)



1. An article of manufacture, a tubular metal fence post having its top end formed into I-beam shape.

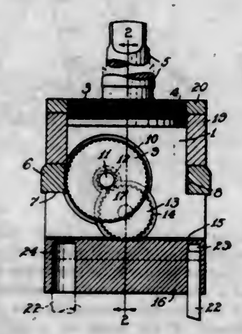
1,684,803. FOLDING MACHINE. ANDREW OLSON, Cleveland, and LESLEY R. TUFTS, East Cleveland, Ohio, assignors to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 13, 1927. Serial No. 183,400. 21 Claims. (Cl. 270—68.)



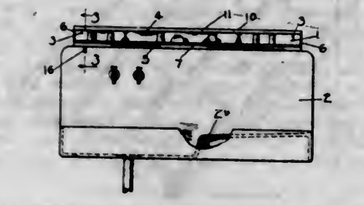
1. In a paper handling machine, sheet feeding means, a feed table at the delivery side of said means adapted to move the sheets at right angles to their direction of movement through said feeding means, and a stacker adapted to be removably mounted above said feed table.

1,684,804. COUNTERBORING HEAD. WILLIAM E. PABST, Anderson, Ind. Filed May 7, 1925. Serial No. 28,508. 4 Claims. (Cl. 77—58.)

1. In a device of the character described, the combination with a split head, of a tool carrier mounted on said head and transversely movable thereon, a gear train mounted between the sections of said head, one of the gears having operative connection with said tool carrier and having another of the gears extending to the periphery of said head, and an annular rack member surrounding said head in engagement with said second mentioned gear, and rotatably movable with respect to said head for driving said gear train whereby said tool carrier is transversely adjusted in the head.

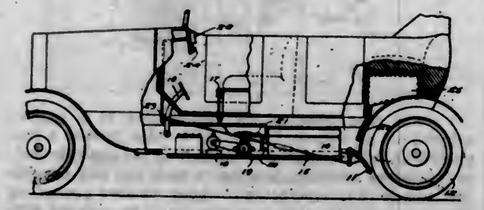


1,684,805. ATTACHMENT FOR SINKS. RIZIERO PANUNZI, Geneva, Ill. Filed Feb. 2, 1924. Serial No. 690,184. 2 Claims. (Cl. 141—11.)



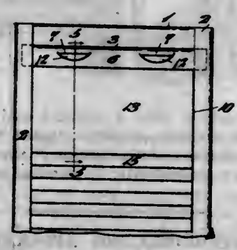
1. An attachment for sinks comprising a flat integral sheet metal piece bent to form a body portion having a back, a bottom and two ends, and a front portion of less height than the back so as to leave the top open laterally and vertically and a removable perforated piece separate from the body portion and located between the back and front portions and having bent ends parallel to the ends of the body portion, said bent ends resting on the bottom of the body portion, the top of the perforated piece being below the level of the front portion of said body portion so that articles placed thereon cannot slide laterally out of the body portion.

1,684,806. MOTOR-VEHICLE SURFACE SANDER. ARTHUR W. REED, Boston, Mass., assignor of one-half to Walter B. Tanner, Boston, Mass. Filed Sept. 18, 1924. Serial No. 738,470. 1 Claim. (Cl. 291—3.)



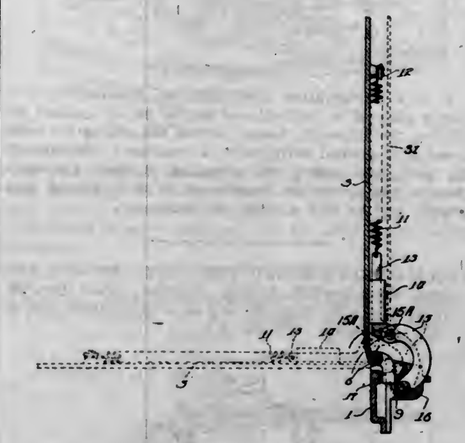
A sanding unit attachment for disposition on a motor vehicle, the attachment comprising a sand box, a discharge pipe leading therefrom, a valve operable to control the discharge through said pipe, means to operate said valve accessible by the vehicle driver while seated, an air compressor in communication with the box, and a motor independent of the motor of the vehicle to operate said air compressor and a control means for the motor accessible to the vehicle driver while seated.

1,684,807. VISIBLE INDEX-CARD SYSTEM. WILLIAM A. RINGLER, Philadelphia, Pa., assignor to Globe-Wernicke Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 19, 1924. Serial No. 693,781. 12 Claims. (Cl. 129—16.7.)



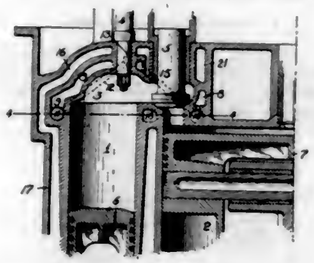
6. A card-holder comprising a foldable strip having one fold provided with a tongue which passes through the other fold, and a card having a holding portion of substantially the same width as the folds and through which said tongue passes.

1,684,808. OVEN DOOR. WALTER F. ROGERS, Chicago, Ill. Filed July 6, 1927. Serial No. 201,835. 4 Claims. (Cl. 126—191.)



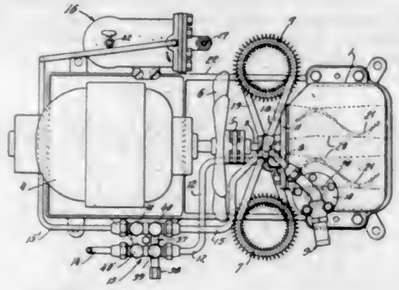
1. In an oven door and frame therefor, means to provide for the opening and closing movement of said door and spring tensioned means resisting the opening of said door comprising a spring secured at one of its ends to the door and at its other end to an arcuate link, said link being connected to said door-frame.

1,684,809. COOLING MEANS FOR INTERNAL-COMBUSTION ENGINES. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del., a Corporation of Delaware. Filed July 20, 1921. Serial No. 486,182. 18 Claims. (Cl. 123—173.)



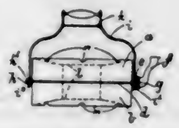
1. In combination with a cylinder and a combustion chamber of an internal combustion engine, fluid means for cooling said cylinder and fluid means of lower specific heat and lower heat conductivity for cooling said combustion chamber.

1,684,810. REFRIGERATING APPARATUS. ALFRED M. THOMSON, Newark, N. J., assignor to Joseph Mercadante, New York, N. Y. Filed Oct. 20, 1926. Serial No. 142,846. 10 Claims. (Cl. 62—115.)



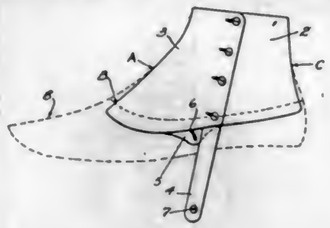
1. In a refrigerating apparatus, the combination of a casing adapted to hold oil and having an air conduit extending therethrough, means within the casing for compressing a gasified refrigerant, a condenser communicating with said casing and arranged in close proximity thereto, and means for causing air to flow through said conduit and to flow against the condenser.

1,684,811. KETTLE AND THE LIKE. MICHELE TOCCHIO, Hammersmith, London, England. Filed Dec. 28, 1927, Serial No. 243,186, and in Great Britain Jan. 4, 1927. 7 Claims. (Cl. 53—9.)



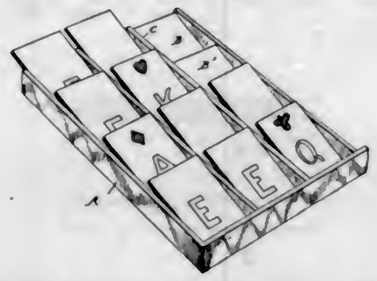
1. A kettle comprising a receptacle, two distinct heating surfaces provided thereon, means for securing a reversible spout to said receptacle, means for connecting a reversible handle, means for providing an air vent, and means for reversing said receptacle.

1,684,812. OVERGAITER. CHARLES TWEEDIE, Jefferson City, Mo. Filed July 11, 1927. Serial No. 204,767. 5 Claims. (Cl. 36—2.)



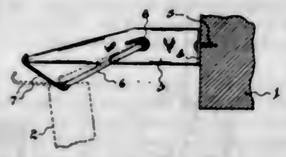
1. An overgaiter comprising an inner quarter, a button quarter secured to said inner quarter by a rear seam, a button hole quarter secured to the inner quarter by a front seam, and a strap permanently secured to the button quarter and detachably secured to the inner quarter at a point forward of its point of attachment to the button quarter.

1,684,813. GAME. WILLIS C. WARD, Orchard Lake, Mich. Filed Mar. 7, 1927. Serial No. 173,493. 5 Claims. (Cl. 273—148.)



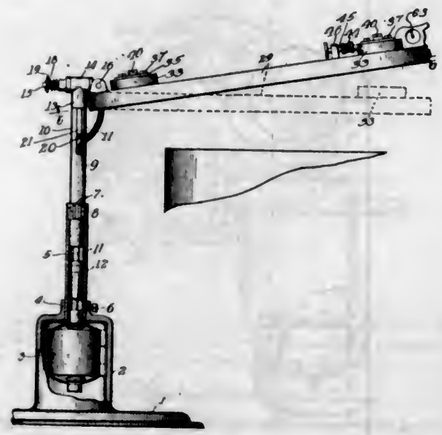
1. A game comprising a rack for holding a plurality of full decks of cards with separate compartments for the different cards of each deck adapted to receive all of the corresponding cards in the several decks the cards of the several decks being visually differentiated upon the faces and backs thereof from those of the other decks.

1,684,814. DOOR FASTENER. FREDERICK J. WATKINSON, Strathroy, Ontario, Canada, assignor of one-half to John N. Ratcliffe, Strathroy, Canada. Filed Nov. 26, 1927. Serial No. 235,889. 3 Claims. (Cl. 292—220.)



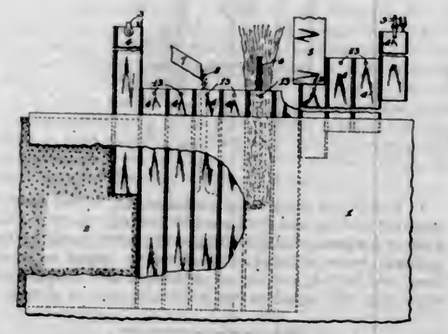
1. In a door fastener, the combination of a support adapted to be secured to a door or door frame; a link pivoted on said support a distance from the head thereof; spring means normally tending to rock the link towards the base of the support; and a hook member pivoted on the free end of the link, and adapted to be engaged with the head of the support, said link, when the hook member is so engaged, lying at an angle to the line of travel of the free side of the door and its free end spaced from said support.

1,684,815. BONE SAW. WILLIAM FRANKLIN WELLS, Chicago, Ill. Filed Mar. 29, 1926. Serial No. 98,168. 8 Claims. (Cl. 143—24.)



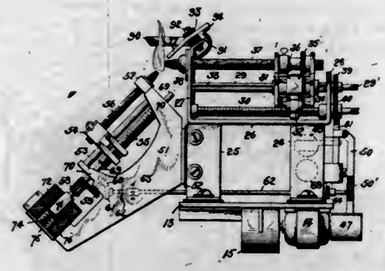
1. A portable cutter comprising a supporting member vertically adjustable in height and equipped in its lower end with a motor rigidly connected therewith, a saw-carrying frame pivotally connected with the upper end of said member, a band-saw operatively mounted in said frame, a flexible shaft operatively connecting said motor with said band-saw, and a telescopic device interposed between the motor shaft and the flexible shaft for permitting adjustment in height of the supporting member without interfering with the operative association of said flexible shaft with the motor shaft and the band-saw.

1,684,816. METHOD FOR BUILDING MONOLITHIC-CONCRETE UNDERGROUND STRUCTURES. HARRY B. ARDEN, New York, N. Y. Filed Oct. 17, 1927. Serial No. 226,679. 7 Claims. (Cl. 61—57.)



1. The method of forming a monolithic concrete structure within the ground which consists in sinking interlocked three walled forms which are closed by neighboring forms to produce a series of cells, filling the cells with concrete, withdrawing the forms progressively to open the sides of the adjacent forms thus causing the fluid concrete to flow and merge and thereby fill the space occupied by the forms before removal.

1,684,817. FEED-GOVERNING MEANS FOR ARC LAMPS. PRESTON R. BASSETT, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 25, 1920. Serial No. 419,228. 8 Claims. (Cl. 176—51.)

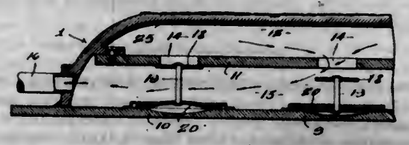


1. In an arc lamp, a pair of electrode holders for the electrodes, means including a member adjacent the arc flame and responsive to a predetermined position thereof for feeding one of said electrodes, and means including another member adjacent the arc flame and responsive to another position thereof for feeding the other of said electrodes.

1,684,818. RETRACTIBLE FLOAT FOR FLYING BOATS. VINCENT J. BURNELLI, New York, N. Y. Filed Dec. 31, 1927. Serial No. 243,871. 3 Claims. (Cl. 244—2.)

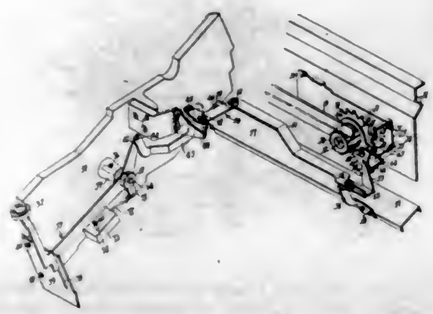
2. The combination with a flying boat having an airfoil, of a float in hinged relation at its rear portion to said airfoil, and means enclosed in the leading edge of said airfoil to move said float into extended and retracted positions.

1,684,819. PRESSING-MACHINE ELEMENT. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 5, 1926. Serial No. 139,725. 11 Claims. (Cl. 68—9.)



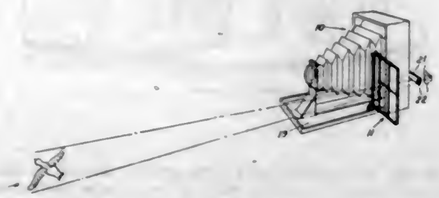
11. A pressing element for pressing machines comprising a hollow metal body and thermostatic means within the body for distributing a heated medium throughout the pressing face of the body.

1,684,820. TYPEWRITING MACHINE. WILLIAM A. DOBSON, Bridgeport, Conn., assignor to The Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 20, 1925. Serial No. 63,605. 22 Claims. (Cl. 197—91.)



1. The combination with a typewriting machine having a carriage arranged for letter-space travel, a carriage-feeding mechanism therefor, and a pinion-and-rack arrangement for operatively connecting the carriage and the carriage-feeding mechanism, of means for back-spacing the carriage, said means including a depressible key near the keyboard of the machine, a carrier rotatably mounted upon the pinion, a normally-inoperative pawl mounted upon the carrier and arranged to first engage said pinion and then rotate with the pinion in a direction opposite to the letter-space rotation of the carriage, and means actuated by said key and operatively connecting said pawl.

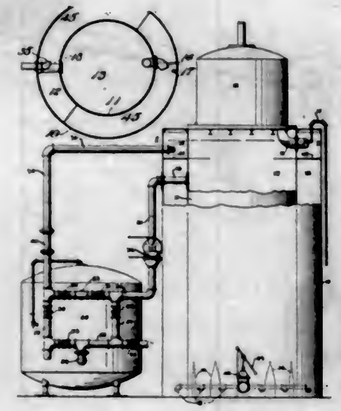
1,684,821. VIEW FINDER FOR CAMERAS. THOMAS F. EASTMAN, Berkeley, Calif. Filed Dec. 23, 1925. Serial No. 77,343. 2 Claims. (Cl. 33—64.)



1. In combination with a camera having a hinged front cover, a frame, crossed wires in said frame, a joint pivotally connecting a corner of said frame to a free edge of said cover at the inner side thereof, a leaf member having a peep hole formed at one end thereof and pivoted at its other end to the camera; said leaf member and said frame being adapted to be swung into alignment positioning said hole and the intersection of said wires in a line parallel to the axis of the camera, or to be retracted to a protected position when not in use.

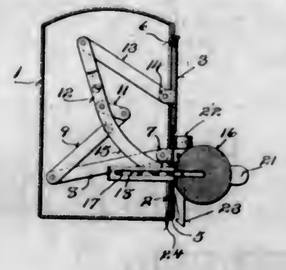
1,684,822. WATER-TREATMENT APPARATUS. WALTER H. GREEN, Chicago, Ill., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 4, 1919. Serial No. 342,349. 20 Claims. (Cl. 210—16.)

1. Water treatment apparatus comprising a settling tank having inlet and outlet chambers of substantially equal capacity and uniform cross section and in open communication at the lower ends thereof, means for introducing water to be clarified to the upper end of said inlet chamber, means for withdrawing said water when clarified from the upper end of said outlet chamber, a filter, means



for directing clarified water through said filter to the point of use, and means for directing clarified water through said filter in the reverse direction and returning the same to the upper end of the inlet chamber of said tank.

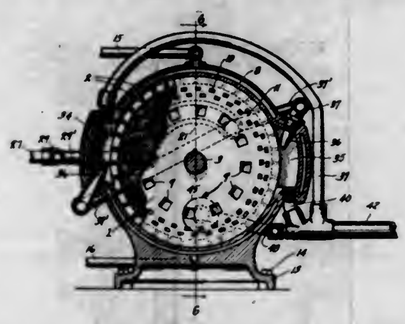
1,684,823. RURAL MAIL BOX. AUGUST H. HABIGHORST, Marinette, Wis. Filed June 6, 1927. Serial No. 196,851. 2 Claims. (Cl. 232—35.)



1. A mail box comprising a main casing, a door hingedly mounted thereon and spring urged towards closed position, a catch for temporarily holding said door in open position, a signal device adapted to be manually moved outwardly from said casing, and means connected with said door for retracting said signal device when said door is opened.

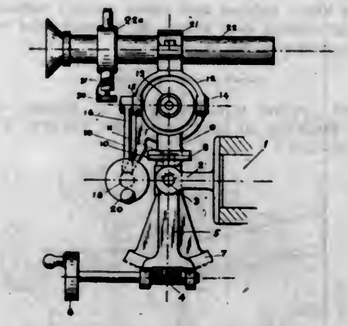
1,684,824. GAS TURBINE. JAMES M. HAWTHORN, Everett, Wash., assignor to The Duplex Gas Turbine Company, Inc., Everett, Wash. Filed Dec. 23, 1925. Serial No. 77,233. 3 Claims. (Cl. 60—41.)

1. A turbine of the character described, comprising a housing having inwardly opening gas supply and explosion chambers formed in oppositely disposed relation in its side walls and having exhaust pockets formed in said side walls, a rotor revoluble in the housing having peripheral vanes and a nozzle connected to receive gas from the said explosion chambers and to direct it against the vanes to drive the rotor; said rotor having outwardly opening



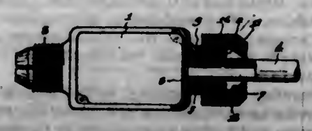
pockets in its opposite side walls adapted, as the rotor revolves, to pass in registration with the supply chambers, the explosion chambers and the exhaust pockets.

1,684,825. GUN SIGHT. JAMES BLACKLOCK HENDERSON, Lee, England. Filed June 23, 1920, Serial No. 391,188, and in Great Britain Sept. 19, 1919. 8 Claims. (Cl. 33—49.)



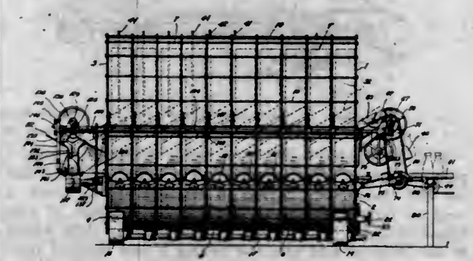
1. In a sighting apparatus for a gun mounted on an angularly moving platform, a sighting member adapted to bear a predetermined relation to a line between the gun and a distant object, a member connected to said sighting member and bearing a predetermined relation to the bore of the gun, and a continuously effective sighting member lying at a substantial angle to the first sighting member and connected to said members whereby they may be continuously maintained in a vertical plane as the platform moves to compensate for the effect of its angular movement.

1,684,826. CONDUIT CONNECTER. JOSEPH E. HILL, Detroit, Mich. Filed Jan. 31, 1927. Serial No. 164,792. 2 Claims. (Cl. 285—166.)



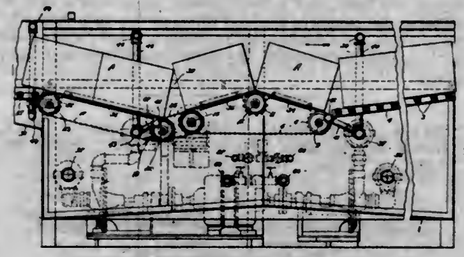
1. In combination with a hollow threaded member, a sleeve fitted in said member, a tapered head formed on one end of said sleeve and disposed outside said member, a nut threaded on said member and having a conical socket receiving said head, and an inwardly extending stop flange formed at the remaining end of said sleeve.

1,684,827. BOTTLE-WASHING APPARATUS. IRVING R. HIPPENMEYER, Waukegan, Ill., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed June 9, 1924. Serial No. 718,688. 12 Claims. (Cl. 141—7.)



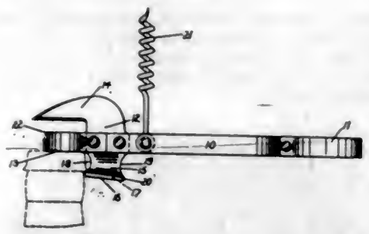
1. A machine of the class described, comprising a tank having a series of partitions forming compartments, a wheel in each of said compartments, said wheels being axially alined and synchronously rotatable, and a plurality of inclined bottle pockets carried by each of said wheels, the pockets of adjacent wheels being endwardly in register for the gravital passage of bottles from one to the other of said registering pockets, said partitions normally retaining the bottles in said pockets but having openings permitting their passage therefrom at intermittent intervals.

1,684,828. CASE-WASHING MACHINE. IRVING R. HIPPENMEYER, Waukegan, Ill., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1924. Serial No. 721,714. 3 Claims. (Cl. 141—1.)



1. A case washing machine, comprising a tank adapted to contain washing fluid, a downwardly inclined gravity conveyor supported within and at one end of said tank and adapted for the movement of a series of cases into said tank, an endless conveyor belt operatively supported in the central portion of said tank having a doubly inclined carrying run adapted to receive cases from said gravity conveyor, said carrying run extending upwardly from adjacent the lower end of said gravity conveyor and downwardly toward the opposite end of said tank, a second endless conveyor belt operatively supported in said tank having an upwardly inclined carrying run positioned endwardly adjacent the downwardly inclined portion of said first conveyor belt and adapted to receive cases therefrom, and spraying devices positioned adjacent the lower ends of said conveyor carrying runs adapted to spray washing fluid upon the exposed ends of said cases passing in angularly tilted relation from the downwardly inclined to the upwardly inclined portions of said conveyors.

1,684,829. DOMESTIC HAND TOOL. JOHN JACOB HOELLE, Sydney, New South Wales, Australia. Filed Oct. 9, 1923, Serial No. 667,466, and in Australia Sept. 28, 1922. 2 Claims. (Cl. 65—46.)



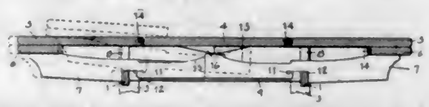
1. In a domestic hand tool, a frame forming a handle, a plate extending transversely through said frame adjacent one end thereof and having an arm one end of which is bent to form a flat plate disposed on one side of said frame, said flat plate extending in a plane at right angles to the plane of said arm and having a face inclined rearwardly with respect to an adjacent surface of said frame, said flat plate cooperating with the adjacent end of said frame in removing a bottle cap.

1,684,830. SAFETY-RAZOR-BLADE HOLDER. GEORGE F. HEFFELBOWER, Flint, Mich. Filed Sept. 10, 1925. Serial No. 55,449. 2 Claims. (Cl. 30—25.)



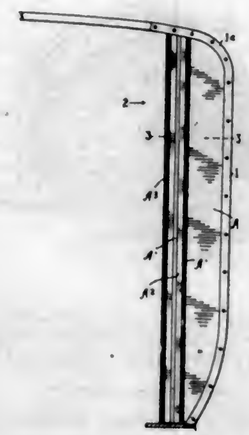
1. A safety razor blade holder having a bore formed therein and provided, adjacent one end, with a plurality of slits to form a spring chuck; a locking member mounted in a pair of diametrically opposite slits and extending across said bore; and a blade holder, comprising a pair of doubled-over members adapted for insertion into said slitted end and for straddling said locking member; and means for clamping said slitted end into engagement with said holder.

1,684,831. EXTENSION TABLE. LEONARD J. HILL, Grand Rapids, Mich. Filed Feb. 9, 1925. Serial No. 7,970. 5 Claims. (Cl. 45—112.)



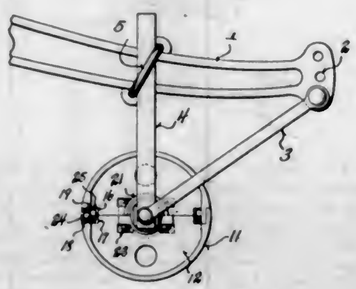
5. In an extension table, the combination of a bed comprising members having slide openings therein, a relatively fixed top member, a pair of adjustable top members adapted to telescope over said fixed top member or when extended to constitute extensions therefor, supplemental top members secured to the under sides of said adjustable top members and adapted to complement said fixed top member when the adjustable top members are collapsed over the same to collapse the table, cammed slides upon which said supplemental and adjustable top members are mounted arranged through said slide openings in said bed and having recesses in their under edges permitting the adjustable top members to drop to the plane of the fixed top member when the slides are extended, there being members on said fixed member coacting with the cams of said slides, and slideways having cam grooves therein operatively associated with said slides, said slides being provided with pins coacting with said grooves, for the purpose specified.

1,684,832. COMBINATION DOOR JAMB AND HANDHOLD. RALPH W. JENKINS, Daleville, Ind. Filed Aug. 11, 1927. Serial No. 212,343. 2 Claims. (Cl. 296—28.)



1. In combination with a pillar having integrally formed inturned hip, a vertical door frame member embodying an integrally formed door recess or channel, and an integrally formed rounded hand hold.

1,684,833. PLOW WHEEL. FRED E. KONELL, Wagner, Wis. Filed Oct. 10, 1927. Serial No. 225,227. 3 Claims. (Cl. 97—189.)

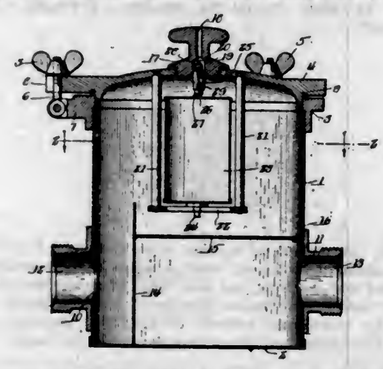


1. A plow wheel construction comprising a bushing, and a split wheel formed of two half sections bolted together and positioned around said bushing, said bushing having integral flanges at opposite sides engaging the side faces of the hub of the wheel.

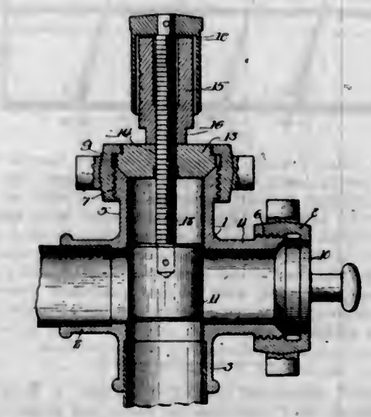
1,684,834. DEAERATING APPARATUS. OLAF LARSEN, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1926. Serial No. 121,292. 3 Claims. (Cl. 183—2.5.)

1. Apparatus for deaerating milk, comprising a container having an inlet opening and an outlet opening in its lower portion and having an air outlet in its upper portion, an imperforate partition in the lower portion of said container having an inlet opening and an outlet opening in its walls thereof and defining with said walls an upwardly opening space communicating with said inlet opening, and

a screen positioned intermediately of said container and extending laterally from said partition into contact with the side walls of said container to form therewith a chamber communicating with said outlet opening, said partition and said screen being freely removable through the upper portion of said container.



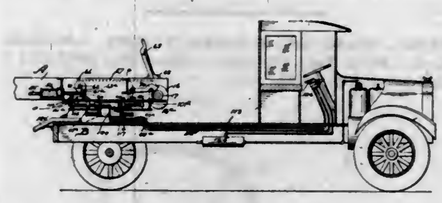
1,684,835. FLOW REGULATOR. OLAF LARSEN, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1926. Serial No. 121,294. 2 Claims. (Cl. 251—77.)



1. A device of the class described, comprising a plunger adapted for operative association with a casing having a plurality of intercepting passages and to be positioned at the junction of said passages, said plunger being movable in one of said passages to control the flow of liquid between other of said passages at said junction, a screw supporting said plunger and adapted to extend endwardly outward of the passage in which said plunger is movable, a cap adapted to be stationarily supported at the end of said latter passage, said screw extending through said cap in threaded engagement therewith, a sleeve nut threaded on said screw, for outward abutment with said cap, and a ferrule fixed on said screw outwardly of said nut, said ferrule extending in overlying operative relation to said sleeve nut.

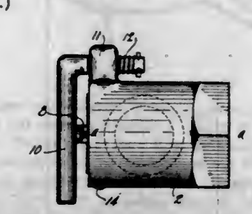
1,684,836. HYDRAULIC BRAKE AND COUPLING DEVICE FOR TRACTOR TRAILERS. CHARLES H. LAND, Detroit, Mich. Filed Apr. 24, 1926. Serial No. 104,333. 5 Claims. (Cl. 280—33.1.)

5. The combination of a tractor and trailer, a hydraulic braking system carried by the trailer, manually operable means also carried by the trailer for operating the hydraulic braking system, a compressed air actuating system carried by the tractor and co-ordinating with the hydraulic braking system of the trailer for operating said hydraulic system when the tractor and trailer are coupled,



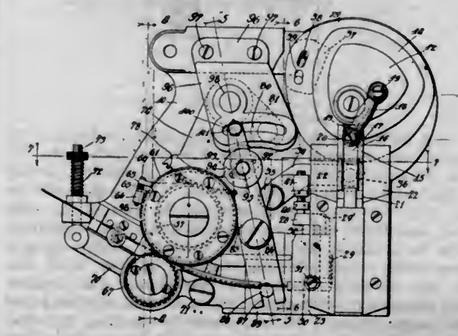
and means carried by the tractor and arranged to automatically engage the manually operable means of the trailer for disconnecting the same from the hydraulic braking system when the trailer and tractor are coupled.

1,684,837. VALVE. SIMEON C. LAWLOR, Chicago, Ill. Filed Sept. 8, 1925. Serial No. 54,881. 2 Claims. (Cl. 251—135.)



1. In a valve, a cylindrical casing provided with an inlet port at one end and an outlet port on one side thereof, a valve seat formed in the casing adjacent the inlet port, a plunger carrying a gasket for engaging the valve seat to prevent flow of liquid from the inlet to the outlet port, said plunger movable endwise in the casing by fluid pressure past the outlet port to open the valve, and a pivoted clamping device, rotatable across the end of the casing opposite the inlet port in a plane parallel to the face of the plunger, which engages the plunger when the valve is closed and clamps the same in engagement with the valve seat, the movement of said plunger being limited by a pin and slot arrangement.

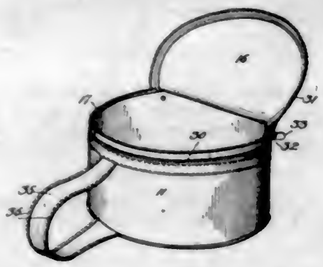
1,684,838. WIREWORKING DEVICE FOR STITCHING MACHINES. ERNEST LESCHHORN, Chicago, Ill., assignor to Latham Machinery Company, a Corporation of Illinois. Filed Jan. 28, 1924. Serial No. 688,908. 15 Claims. (Cl. 140—140.)



1. A wire working device for stitching machine comprising a frame, an adjustable wire feeding mechanism mounted on said frame, an adjustable wire cutting mechanism

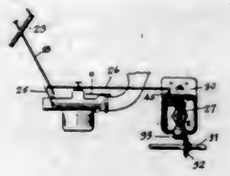
mounted on said frame, and a lever pivoted to said frame and operatively related to said feeding and cutting mechanisms whereby said feeding and cutting mechanisms may be simultaneously adjusted.

1,684,839. HAND BAG. JOSEPH N. LOWE, New York, N. Y. Filed June 18, 1927. Serial No. 199,749. 3 Claims. (Cl. 206—8.)



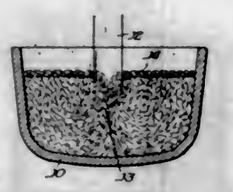
1. A hand bag, comprising a surrounding wall, opposite side walls, one of which is seamed around the bag to one edge of the surrounding wall and the other of which is secured to the wall for movement, so as to provide a mouth to the bag, fastening means for detachably securing the movable wall to the surrounding wall and closing the mouth, a flexible handle extending transversely of the surrounding wall and having one end secured at the edge of the said surrounding wall, and covering means for the other end of the handle, and between which covering means and the surrounding wall the said other end is applied to the said wall, said covering means adjoining the movable wall of the bag when the movable wall is closed.

1,684,840. CARBURETOR. MARION MALLORY, Toledo, Ohio. Filed Jan. 8, 1927. Serial No. 159,790. 1 Claim. (Cl. 123—106.)
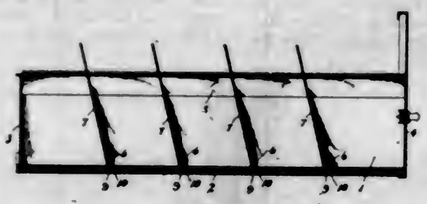


In a carburetor for an internal combustion engine, the carburetor having a passage-way communicating at one end with the intake of the engine, the carburetor having a fuel inlet communicating with the passage-way and an air inlet for said passage-way on the side of the fuel inlet opposite to the point of connection of the carburetor with the intake of the engine, a valve for closing the said passage-way and interposed between the air inlet and the fuel inlet, a second valve for closing the passage-way interposed between the fuel inlet and the intake of the engine, means for automatically opening the first named valve according to the speed of the engine, means for manually operating the second named valve, and means for manually operating the first named valve independently of the automatically operating means.

1,684,841. STEEL AND ITS MANUFACTURE. JOSEPH RUSSELL CORNELL MARSH, Arlington Heights, Ill., assignor to Francis Norwood Bard, Chicago, Ill. Filed Jan. 19, 1922. Serial No. 530,261. 6 Claims. (Cl. 75—27.)



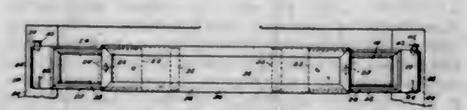
1. In the process of making steel, the steps which include adding a stream of moulten metal to loose graphitic material in flake form and in a state of subdivision to be highly mobile whereby the stream of moulten metal will form an intermixed current of graphitic material and metal to rapidly and completely carburize the metal.

1,684,842. FILING DRAWER. FRANK C. MORSE, Muskegon, Mich., assignor to Browne-Morse Company, Muskegon, Mich., a Corporation of Michigan. Filed Apr. 4, 1927. Serial No. 180,764. 2 Claims. (Cl. 129—16.)



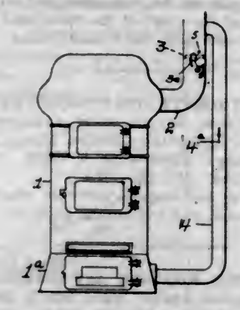
1. A filing drawer having spaced-apart vertical sides and a bottom, each of said sides near its upper edge having a channel formed lengthwise thereof with an open inner side, and said bottom being formed with openings therethrough, a plurality of spacing plates located in the drawer extending between the sides thereof, tongues extending from the vertical edges of each plate and passing into said channels, and tongues extending below the lower edges of the spacing plates into the openings in the bottom of said drawer.

1,684,843. WINDOW CORNICE. AARON S. NEWMARK, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Joseph Elsner and Joseph I. Lubin, New York, N. Y. Filed Oct. 31, 1927. Serial No. 230,148. 8 Claims. (Cl. 156—13.)



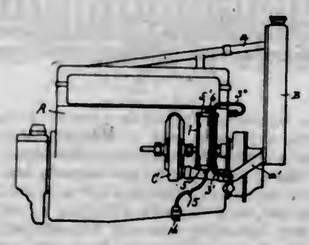
1. A window cornice, including an intermediate tubular section and channel-shaped end sections telescopically associated therewith and having longitudinally extending flange terminals, means carried by the intermediate section for clamping engagement with the flange terminals to retain the sections in relatively adjusted relation, the said end sections each having its free outer end directed rearwardly, brackets over which said ends are engaged, said brackets consisting of a base and forwardly projecting upper and lower arms, the former arm being slotted, and means carried by the rearwardly directed ends of the end sections for clamping the same to the slotted bracket arms.

1,684,844. HEATER AND DRAFT-GOVERNING MEANS THEREFOR. NELS OLSON, Superior, Wis. Filed Feb. 10, 1928. Serial No. 253,487. 5 Claims. (Cl. 196—293.)



1. The combination with a heater, of a head flue, a base flue, an air supply valve in said head flue, a draft control valve in said base flue, and a flue common to said head and base flues, said common flue being positioned on the opposite side of said valve and damper from said heater.

1,684,845. ELECTRIC WATER HEATER FOR WATER-COOLED INTERNAL-COMBUSTION ENGINES. LEROY PARKER, Utica, and LOU E. MILLER, New Hartford, N. Y. Filed Mar. 3, 1925. Serial No. 12,915. 1 Claim. (Cl. 219—38.)



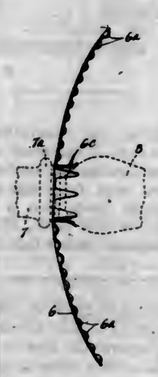
A device of the character described, comprising a double-walled shell having an air chamber between the walls thereof, a pipe coil within the shell and having its ends provided with means for attachment to the water circulating system of a water-cooled internal combustion engine, a hollow tie rod extending centrally through the shell and operatively connected to opposite ends thereof, an insulating support mounted on the tie rod and surrounded by the pipe coil and a heater coil, mounted on said support and having its ends extended into the tie rod and outwardly beyond one end thereof and provided with means for connection with a source of current supply.

1,684,846. POWER-DRIVEN SKIS. HERMAN E. PEARSON, Wayzata, Minn. Filed Apr. 14, 1924. Serial No. 706,334. 8 Claims. (Cl. 180—6.)



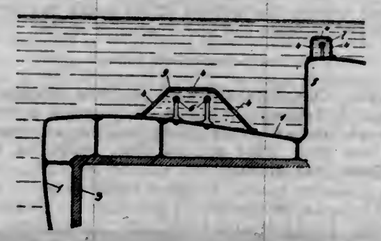
6. A ski comprising a pair of closely spaced runners, a platform connecting and bridging said runners and adapted to skim the snow, a steering blade upon said platform beneath the same arranged substantially centrally of the ski in both directions, means for operating the steering blade, and means engageable rearwardly of the ski for driving the same.

1,684,847. CHRISTMAS-TREE REFLECTOR WITH PROJECTIONS. LAMBERT L. RAYMOND, Minneapolis, Minn. Filed June 21, 1926. Serial No. 117,377. 3 Claims. (Cl. 240—103.)



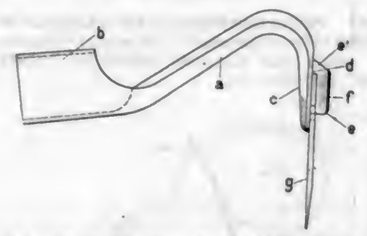
1. The combination with a lamp socket having a cylindrical front end with a shoulder thereon and a lamp bulb therein, of a reflector comprising a sheet metal member formed on a slight curve and having an aperture therein adapted to fit over said end of said lamp socket and abut said shoulder, said reflector having a plurality of spaced members projecting from its front surface about said aperture, the front portions of which are adapted to be engaged by said lamp bulb, whereby said reflector is pushed back against said shoulder and held firmly on said socket by said lamp bulb.

1,684,848. SUBMARINE DIRECTION FINDER. WILHELM RUDOLPH and GUSTAV WOLFF, Kiel, Germany, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany, a Firm. Filed Oct. 24, 1922, Serial No. 596,690, and in Germany Oct. 9, 1922. 3 Claims. (Cl. 181—26.)



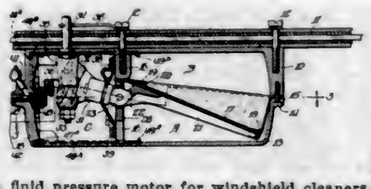
2. In a submarine sound receiving plant associated with a ship and adapted to ascertain the direction of sound waves, a plurality of sound receivers, means for mounting said receivers at a fixed distance from the ship's body and rigidly connecting them thereto, a water-filled casing surrounding said receivers, said receivers being positioned so as to be freely accessible to the arriving sound waves from all directions.

1,684,849. DEVICE FOR FIRMLY ATTACHING EXCHANGEABLE BLADES TO HOES, MATTOCKS, OR THE LIKE. CARL EDUARD RÖGERBERG, Remscheid, Germany. Filed Mar. 9, 1928, Serial No. 260,402, and in Germany Jan. 4, 1927. 2 Claims. (Cl. 306—23.)



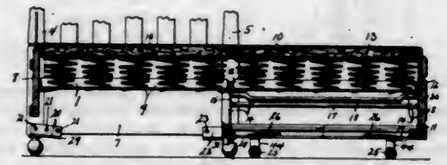
1. In a hoe or mattock, the combination of a neck, a broad flange with a flat face on the front end of said neck, a projection on the front surface of said flange dovetailed in cross-section toward said face and slightly tapered downwardly, a removable blade and a correspondingly tapered open-ended slot in said blade, the inner walls of said slot being perpendicular to the face of said blade.

1,684,850. WINDSHIELD CLEANER. STEPHEN G. SKINNER, Los Angeles, Calif., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed July 2, 1924. Serial No. 723,614. 4 Claims. (Cl. 121—48.)



4. A fluid pressure motor for windshield cleaners, comprising a sectional housing, one section of which is provided with a transverse wall for dividing the same into two compartments, said wall having a slot opening through one edge and closed by the companion section, a bearing member disposed in the slot and held against displacement therefrom by said companion section, a lever pivoted in the bearing member and extending to opposite sides thereof into said compartments, a wiper operating member operable by one end of the lever, and a diaphragm dividing the compartment into which the opposite end of the lever extends, said diaphragm being connected to said opposite end of the lever, and said diaphragm having its marginal portions clamped between the sections of the casing and between said bearing member and said companion section.

1,684,851. CONVERTIBLE BED. LEOPOLD STICKLEY and GRANT I. TAYLOR, Syracuse, N. Y., assignors to Stickley Manufacturing Company, Eastwood, N. Y., a Corporation of New York. Filed Jan. 20, 1925. Serial No. 3,569. 1 Claim. (Cl. 5—21.)

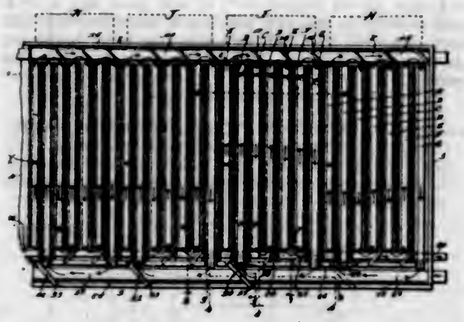


The combination with a single bed structure having a spring-supporting frame, of a collapsible single bed structure capable in collapsed condition of being moved underneath said spring-supporting frame, and inclined guides at the rear side of the single bed structure for elevating the rearside of the collapsible bed structure from contact with the floor, additional guides at the front of the single bed structure, and means on the collapsible bed structure for causing elevation of the front of the collapsible bed structure when moved over said last-named guides.

1,684,852. ELECTROLYTE FOR STORAGE BATTERIES. A. BENJAMIN WERBY, Newton, Mass., assignor to American Automotive Corporation, Boston, Mass., a Corporation of Delaware. Filed June 5, 1928. Serial No. 283,133. 7 Claims. (Cl. 136—154.)

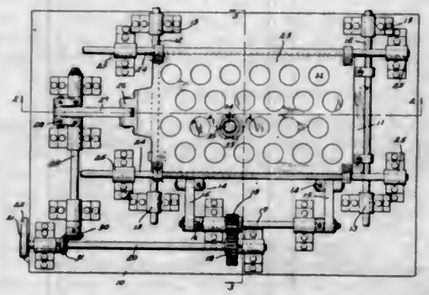
1. An electrolyte for storage batteries which includes sulphuric acid, water, and ammonium acetate.

1,684,853. MOTION STORAGE APPARATUS. EDWARD A. WHITE, Lewiston, Idaho. Filed Aug. 2, 1926. Serial No. 126,560. 12 Claims. (Cl. 198—19.)



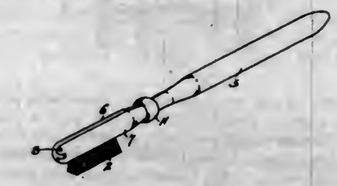
3. In a motion storage apparatus, a motion storage table provided with a transfer belt, a plurality of bin belts travelling in opposite directions and terminating abreast of one side edge of said transfer belt whereby one bin belt will discharge onto and another bin belt will receive from said transfer belt, said bin belts including an egress and an ingress belt extending over said transfer belt, and a combination bin belt for receiving from said egress belt and delivering to said ingress belt.

1,684,854. VALVE-SEAT-GRINDING MACHINE. JOHN A. YERKES and REES H. LEMMON, Long Beach, Calif. Filed Nov. 28, 1927. Serial No. 236,069. 6 Claims. (Cl. 51—29.)



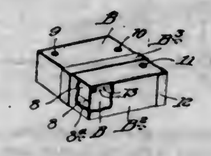
1. A valve seat grinding machine comprising an oppositely faced plate and carriage, said plate and carriage being movable transversely of one another, means in said carriage for accommodating one of the members of a ball and seat or the like and whereby said member is urged toward said plate, said plate supporting the other member of said ball and seat, and means to move said carriage and plate relative to one another in recurring cycles.

1,684,855. BRUSH STRUCTURE. JAMES M. ACHESON, Los Angeles, Calif. Filed Dec. 12, 1927. Serial No. 239,571. 2 Claims. (Cl. 15—195.)



1. A tooth brush including a handle having a shank part, a clamp member pivoted on said part and each being recessed to form a chamber with a convergent mouth between opposed longitudinal faces, and a brush body unit of strands; said unit being medially folded between the said clamping faces; the narrow mouth of the chamber closely compacting the strands above the fold.

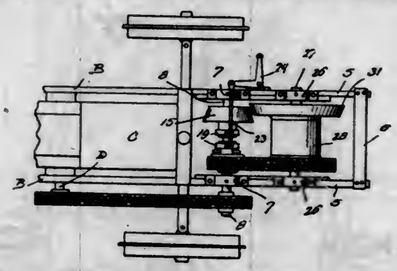
1,684,856. DRY-BATTERY PACKAGE. HERMAN R. C. ANTHONY, Madison, Wis., assignor to French Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed Oct. 15, 1926. Serial No. 141,762. 2 Claims. (Cl. 136—132.)



1. A battery package comprising a battery equipped with terminals and a carton consisting of telescopically nested cardboard bands secured together in nested condition by adhesive tape, a wall of said carton being spaced from the terminal-equipped wall of said battery and provided with perforations registering with said terminals and a spacing strip interposed between said walls.

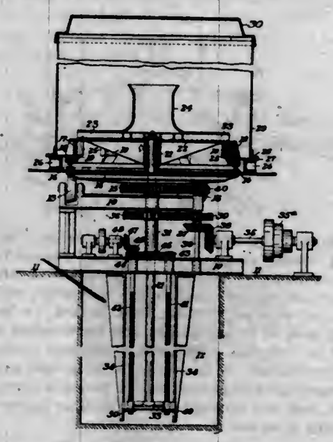
1,684,857. POWER WINCH FOR TRACTORS. CHARLES R. APPLEBY, Bolivar, N. Y. Filed Mar. 16, 1927. Serial No. 175,791. 1 Claim. (Cl. 254—166.)

In a power winch for tractors, a pair of longitudinally extending spaced frame bars rigidly secured to the forward end of the tractor, a U-shaped bar connecting at its ends to the respective frame bars and at the bottom sides thereof, the main power shaft journaled transversely of said frame bars, a driving connection between the shaft and the power take-off shaft of the tractor, a clutch upon said shaft including an internal clutch member having a sprocket upon its outer face and loose upon the shaft, and a clutch member splined upon the shaft and constructed for engagement with the first clutch member to cause the locking of said members to said shaft, a gear splined upon said shaft adjacent its opposite end, a shaft journaled upon said bars forwardly of the first-mentioned shaft, the cable drum operatively associated with said shaft, a sprocket upon one end of the drum in alinement with the sprocket upon the first-mentioned shaft, a chain connection between said sprockets, a gear upon the opposite end of the drum, and single means for causing the actuation of the movable member of the clutch and said gear upon the first mentioned shaft, whereby the drum may be rotated in reverse directions, said means consisting of a pair of levers having their lower ends pivotally connected in the U-shaped member, and in spaced relation to each other, one of said levers being operatively connected to the splined clutch member, the opposite lever being operatively connected to the gear, said levers being



connected at their upper ends, and a single throw lever operatively associated with one of said levers to cause the simultaneous parallel movement of the levers, when said throw lever is actuated.

1,684,858. METHOD OF AND APPARATUS FOR FORMING CONCRETE PIPE. CHARLES F. BUENTE, Pittsburgh, Pa., assignor to Concrete Products Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 25, 1923. Serial No. 653,061. 13 Claims. (Cl. 25—30.)



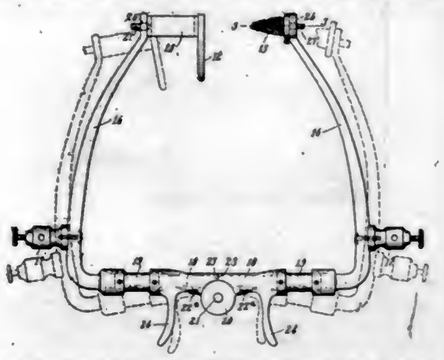
1. The method of forming concrete articles having a circular inner surface, comprising feeding and placing plastic material into the interior of a rotating form and subjecting the material to centrifugal force within the form during the feeding thereof and before the material is influenced by the centrifugal force of the form, subjecting the placed material to further centrifugal force by the movement of the form, and troweling the interior of the article after the material has been placed, substantially as described.

5. Apparatus for forming concrete articles including a mold, a rotatable feeder having a radially extending portion adapted for imparting centrifugal force to the material, said portion terminating in a discharge opening which lies substantially at the interior face of an article formed in the mold and means for rotating the feeder.

1,684,859. DIATHERMY AND GALVANIC EAR SET. DR FORREST B. CATLIN, Boston, Mass. Filed Aug. 11, 1926. Serial No. 128,613. 4 Claims. (Cl. 174—89.)

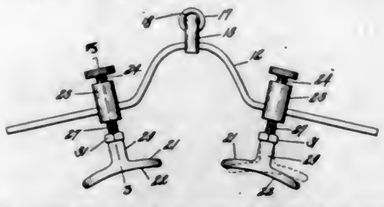
1. A diathermy ear set comprising a pair of electrodes formed to be engaged with and supported by the ears of a patient; a yoke connecting the electrodes and composed

of conducting arms contacting with the electrodes and having binding posts, and a neck connecting the arms and insulating them from each other, the neck including mem-



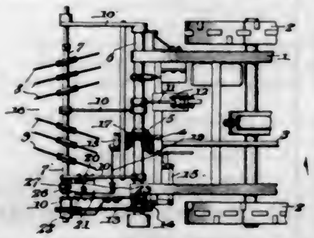
bers connected by a stop hinge and provided with a spring normally extending said members and maintaining the electrodes spaced a minimum distance apart.

1,684,860. EYE-TREATING APPARATUS. DE FOREST B. CATLIN, Boston, Mass. Filed Mar. 12, 1927, Serial No. 174,838. Renewed Feb. 9, 1928. 4 Claims. (Cl. 174—89.)



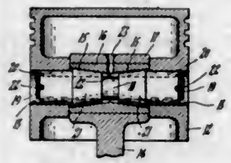
1. Eye-treating apparatus comprising an electrode-supporting conductor having means for connection with a source of remedial current, and a double electrode whose members are spaced apart on the conductor, each member having an annular contact face formed to bear on an annular area of closed eyelids, and surrounding an opening formed to coincide with eyeball portions containing the crystalline lenses of the eyes, the area and arrangement of the openings being such that the remedial current passes around, and not through, the crystalline lenses when the apparatus is in use.

1,684,861. AGRICULTURAL MACHINE. JACOB AUGUST DIRSCHAUER, Evansville, Ind. Filed Aug. 25, 1927. Serial No. 215,476. 2 Claims. (Cl. 97—40.)



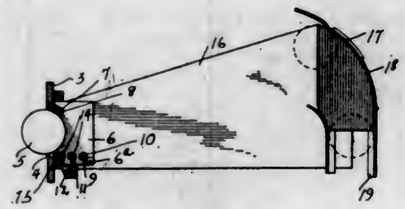
2. In an agricultural machine, the combination with a gang of soil-treating discs mounted for rotation and for bodily shifting laterally as a unit, of a rocker and a crank and connecting rod constituting means for reciprocating said discs laterally as a unit, and means for driving said shifting means and for rotating the discs while they are being reciprocated.

1,684,862. JOINT FOR PISTONS AND CONNECTING RODS, ETC. ALFRED F. GAY, Brockton, Mass., assignor to Henry J. Lupien, Brockton, Mass. Filed Dec. 3, 1927. Serial No. 237,436. 8 Claims. (Cl. 74—108.)



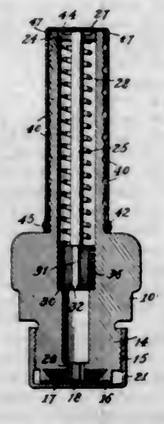
1. A joint of the character stated, comprising a tapered wrist-pin bearing in a connecting-rod, and a composite wrist-pin having cylindrical journals fitting the cylindrical wrist-pin bearings in a piston, and a tapered journal fitting the tapered bearing in the connecting-rod, said joint including manually operable means for longitudinally adjusting, and confining in any adjusted position, the tapered journal portion of the wrist-pin, to compensate for wear.

1,684,863. COIN-PROPELLING DEVICE FOR VENDING MACHINES. GARNET P. GRANT, New York, N. Y. Filed June 5, 1925. Serial No. 35,237. 3 Claims. (Cl. 194—97.)



3. A coin operating device comprising an insertion element, fixed friction reducing means and resiliently supported friction reducing means disposed adjacent the insertion element and a chute in alinement with and at a point removed from the insertion element.

1,684,864. CYLINDER AND TIRE GAUGE. HENRY P. GROHN, Chicago, Ill. Filed May 7, 1926. Serial No. 107,451. 2 Claims. (Cl. 73—111.)



1. A gauge consisting of a body having a two-diameter bore, an inwardly extending gasket receiving flange at one end of the body, a hollow cylindrical grooved sleeve

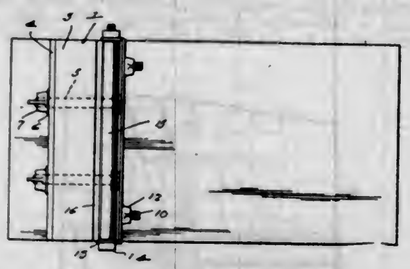
extending from the body, a centrally perforated guide plug within said sleeve and closing the end thereof distant from the body, a piston in said body movable into said sleeve, a stem carried by said piston projecting thru said plug, a spring surrounding said stem and engaging the plug and piston, a cap surrounding said sleeve, and a ring held by said cap and engaging in order the grooves of the sleeve to prevent automatic return of the cap.

1,684,865. HAM-CURING DEVICE. BERTRAM HANSEN and PETER J. KAMION, Syracuse, N. Y. Filed Jan. 3, 1928. Serial No. 244,192. 5 Claims. (Cl. 99—2.)



5. In a meat curing device, a valve case having a valve chamber and co-axial ports leading to and from said chamber at right angles thereto, a plunger valve movable in said chamber and provided with a transverse passage movable into and out of registration with said ports as the plunger is reciprocated, yielding means normally holding the valve in its closed position, means operable at will for opening the valve, a handle secured to one side of the valve case and provided with a passage alined with said ports, a guide tube secured to the other side of the valve case in alinement with said ports, a delivery tube reciprocally movable endwise of and within the guide tube and having its distal end provided with a tapered entrant member and an outlet opening normally closed by said guide tube, yielding means for holding the guide tube in its normal position, and means actuated by the opening movement of the valve for shifting the delivery tube from its normal position to open the outlet.

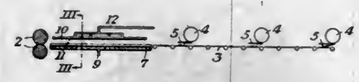
1,684,866. SHEARS SHARPENER. GRANT JARBOE, Findlay, Ohio. Filed Apr. 9, 1927. Serial No. 182,405. 4 Claims. (Cl. 76—82.)



4. As a new product of manufacture, a base, a blade clamping vise supported thereon and comprising a wooden backing block, blade clamping means on one side of the block, a file rest and manipulating roller on the opposite side of the block, and means for adjustably mounting said roller on said block.

1,684,867. METHOD AND APPARATUS FOR HANDLING STRIPS. LANE JOHNSON, Ingram, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 26, 1924. Serial No. 758,026. 4 Claims. (Cl. 80—32.)

1. In a strip mill, a roll stand, a plurality of coiling devices cooperating with said roll stand but located at different distances therefrom, means for guiding strip from said roll stand but located at different distances therefrom, means for guiding strip from said roll stand to any of said coiling devices at will, and means insuring delivery

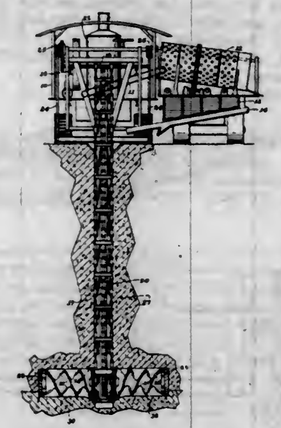


of said strip to all of said coiling devices at substantially the same temperature irrespective of their distance from the roll stand, substantially as described.

1,684,868. PRODUCTION OF RESINS. IRVIN H. JONES, Manhattan, Ill., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 2, 1924. Serial No. 723,830. 4 Claims. (Cl. 260—7.)

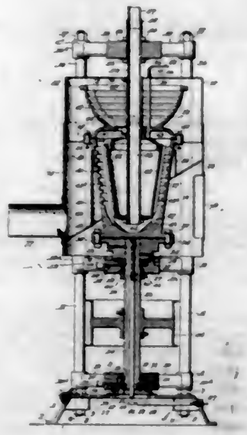
1. The process of making light colored coumarone resin from solvent naphtha, which comprises subjecting the solvent naphtha to a preliminary polymerizing treatment to polymerize resin-darkening bodies therein, distilling the naphtha to separate it from the polymerized resin-darkening bodies held in solution, carefully fractionating the naphtha to eliminate substantially all traces of its resin-darkening and resin-softening constituents having boiling points below about 145° C. and above about 205° C., and thereafter subjecting the naphtha so treated to a resin polymerizing treatment.

1,684,869. PLACER-MINING MACHINE. FERDINAND H. KRUEGER, Milwaukee, Wis. Filed Apr. 13, 1923. Serial No. 631,834. 6 Claims. (Cl. 37—87.)



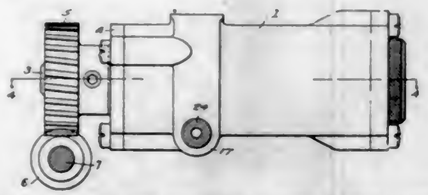
1. A placer mining machine, comprising a vehicle, a downwardly extending trench frame provided with an endless chain and bucket trench digger swingingly carried by said vehicle for digging a vertical trench, and reversely threaded spiral excavators and conveyers carried by the lower end portion of the trench frame for digging laterally extending extension trenches on opposite sides of the vertical trench and removing the mineral bearing earth therefrom to a position to be engaged by the buckets of the vertical trench digger, the spiral portions of said excavators extending entirely around the excavators.

1,684,870. CENTRIFUGAL CONCENTRATING AND AMALGAMATING APPARATUS OF THE VERTICAL TYPE. FRANK D. LEWIS, Denver, Colo. Filed Oct. 17, 1927. Serial No. 226,711. 7 Claims. (Cl. 209—199.)



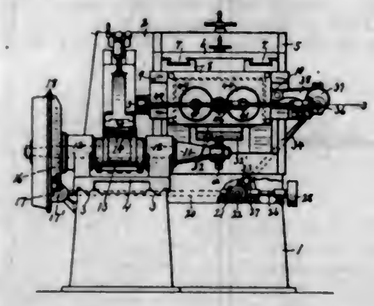
1. In an amalgamating and concentrating apparatus of the character described, the combination with a vertically disposed shaft and means for rotating the same; of a hollow tapered cylinder secured upon the top of said shaft the inner face of which is provided with spaced annular mercury-receiving grooves and terminates in a dome-like bottom, a bowl secured upon said cylinder having an opening in the bottom communicating with said cylinder, a stationary feed pipe extending through said opening and terminating near the bottom of said cylinder, a tapered element on said feed pipe for defining an annular space in said cylinder next the wall thereof, a disk on said feed pipe in relation to the opening in said bowl for controlling the outflow from the cylinder, said bowl having a plurality of annular grooves in its inner face.

1,684,871. SPINNING PUMP. CHARLES W. LAWSER, Bala, Pa., assignor to Wicaco Screw & Machine Works, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1926. Serial No. 157,764. 8 Claims. (Cl. 103—102.)



1. A spinning pump comprising a casing having a cylindrical chamber and a solid transverse portion offset laterally with respect to the axis of said chamber and having at opposite sides thereof ports communicating with the chamber, means for clamping the cylinder pivotally between elements respectively engaging the casing at said ports, said clamping elements having passages communicating with said ports whereby the connection between the ports and the passages is maintained regardless of the angular position of the casing with respect to the pivotal axis, a rotor mounted in the casing, means operatively associated with the rotor for drawing a fluid substance into the casing through one of said ports and the associated clamping element and for discharging it through the other port and clamping element, a cylindrical extension on the rotor projecting through an end of the casing, a gear on said projection, and power means operatively connected with said gear for rotating the rotor in the cylinder.

1,684,872. GEAR-LAPPING MACHINE. CHARLES H. LOGUE, Syracuse, N. Y. Filed July 3, 1925. Serial No. 41,298. 6 Claims. (Cl. 51—52.)

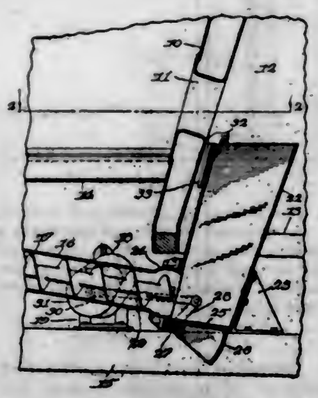


1. In a gear lapping machine, an abrasive element, a gear supporting element, means for rolling the gear with one face of one of its teeth against the abrasive element, and means for moving one of said elements lengthwise and transversely of the axis of the gear.

1,684,873. MELTABLE ADHESIVE. ERSKINE DANIEL LORD, Cambridge, Mass., assignor to McLaurin-Jones Co., Brookfield, Mass., a Corporation of Massachusetts. Filed July 11, 1924. Serial No. 725,392. 6 Claims. (Cl. 87—17.)

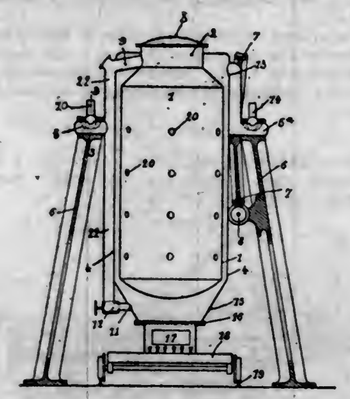
1. A meltable waterproof adhesive comprising a substantial percentage of fatty acid pitch, and a smaller percentage of wax.

1,684,874. LOCOMOTIVE STOKER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed June 11, 1926. Serial No. 115,177. 4 Claims. (Cl. 110—101.)



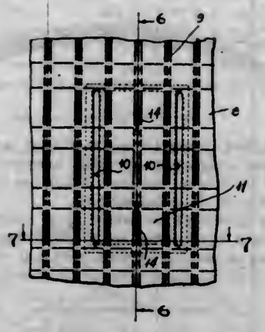
1. A stoker for locomotives comprising a transfer conduit and a riser angular in cross-section receiving and leading upwardly from the conduit, means within the conduit for applying pressure to the fuel within the riser, and a swinging fuel lifter at the lower end of the riser.

1,684,875. APPARATUS FOR THE CARBONIZATION AND DISTILLATION OF WOOD. RAPHAËL MALBAY, Paris, France. Filed Apr. 21, 1925, Serial No. 24,887, and in France May 5, 1924. 4 Claims. (Cl. 202—3.)



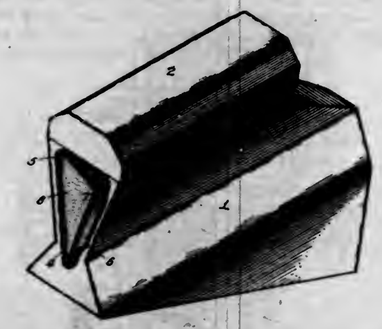
1. An apparatus for the carbonization of wood comprising a fixed frame, an elongated retort having two spaced walls forming a substantially annular chamber, trunnions carried by the outer wall of said retort and rotatably supported by said frame, the axis of said trunnions being at right angle to the longitudinal axis of said retort, a distillation gas collecting conduit and a burnt gas exhaust conduit, said conduits opening respectively into the retort and into said annular chamber and having parts extending respectively through said trunnions, a branch pipe opening at one end into said collecting conduit and at the other end into said annular chamber, means for burning the gas delivered from said branch pipe into said annular chamber, and means for rotating said retort about said trunnions.

1,684,876. WEARING APPAREL. JOSEPH M. I. MABIN, Jersey City, N. J. Filed June 2, 1926. Serial No. 113,204. 1 Claim. (Cl. 2—120.)



As a new article of manufacture a shirt for men's wear comprising a bosom portion, a back and sleeves, the bosom portion formed with a plurality of pairs of longitudinal slits, said slits forming intervening tabs continuous of and integral with the shirt, and with backing plies stitched to the shirt bosom back of the slitted portion, the said bosom portion being provided with button holes between each pair of slits, for the reception of the buttons on the waist portions of trousers.

1,684,877. SANITARY DISPENSING DEVICE. ELMER C. MORRIS, Chicago, Ill., assignor, by mesne assignments, to Servo-Paper Corporation, a Corporation of Illinois. Filed Sept. 17, 1923. Serial No. 663,118. 13 Claims. (Cl. 312—61.)



1. A dispensing device for articles folded to form an acute angle between elongated sides, said device comprising an elongated container having a dispensing opening at one end and a base declined toward the end having the dispensing opening, said container having its opposite sides inwardly angled along an intermediate part to provide outwardly flared upper and lower guides, the upper guide being adapted to engage the elongated sides of the articles, a follower slidable along the container having a restricted intermediate part and flared upper and lower parts to travel respectively in the upper and lower guides of the container, and means for moving the follower along the container toward the end having the dispensing opening.

1,684,878. FOLDED-SHEET OBJECT AND METHOD OF FORMING SAME. ELMER C. MORRIS, Chicago, Ill., assignor, by mesne assignments, to Servo-Paper Corporation, a Corporation of Illinois. Filed Mar. 3, 1924. Serial No. 696,492. 5 Claims. (Cl. 206—57.)

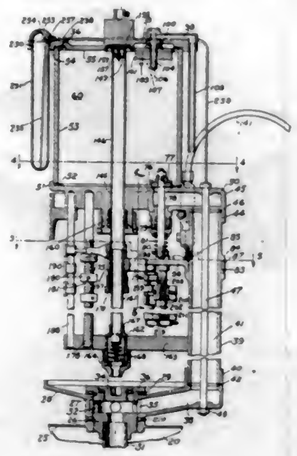


1. As an element of a package to be dispensed through an opening in a dispensing cabinet, a paper napkin first folded in a rectangular form and then two diagonally opposite corner portions folded to form an elongated intermediate portion, with the folded corner portions in mutually overlapping relation and overlying the intermediate portion to provide free triangular tabs on the middle part of the intermediate portion.

1,684,879. APPARATUS FOR DISPENSING LUBRICATING OIL. HENRY R. NEWMAN, Los Angeles, Calif., assignor to Boyle Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 15, 1926. Serial No. 88,248. 14 Claims. (Cl. 221—103.)

6. A dispensing apparatus comprising: a service chamber; means for forcing a liquid into said service chamber; a vertical service tube extending into said service chamber, said service tube being vertically slidable so that it may be moved downwardly from zero position into different dispensing positions; a valve adapted to close said service tube when it is in zero position; means for placing a pressure on said liquid in said service chamber for dispensing

said liquid through said service tube when said service tube is in any dispensing position; means for preventing a flow of liquid through said service tube except when said



pressure is applied in said service chamber; and counter means for separately counting the different quantities of liquid dispensed.

1,684,880. PUMP. ARTHUR G. NORTON, Holley, N. Y., assignor to Alert Products, Inc., Holley, N. Y., a Corporation of New York. Filed Aug. 8, 1927. Serial No. 211,271. 2 Claims. (Cl. 4—255.)

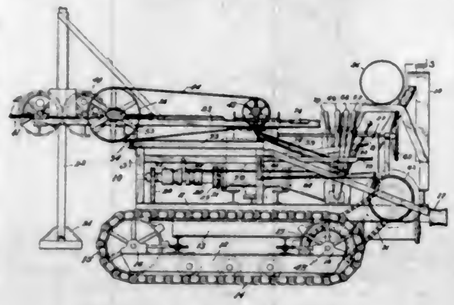


1. A pump comprising a cylinder having an outwardly extending roll at one end and also having a uniform exterior diameter above said roll, and a sealing cup formed of rubber and having a sleeve at one end with a uniform interior diameter throughout and a shoulder at the inner end of the sleeve engaging behind the roll on the cylinder, the interior diameter of the sleeve when detached from the cylinder being less than the external diameter of the cylinder and the sleeve being held in a stretched condition in engagement with the external wall of the cylinder and behind such outwardly extending roll.

1,684,881. PROCESS OF DYEING FIBROUS MATERIALS. JOSEPH NÜSSLEIN, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 23, 1926, Serial No. 150,384, and in Germany Dec. 7, 1925. 4 Claims. (Cl. 8—6.)

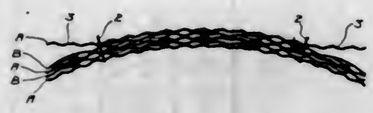
1. The process of producing dyeings on fibrous materials which consists in applying to the fibre a mixture comprising an aromatic amine, practically insoluble in water, water and a water-soluble emulsifying agent, and oxidizing the amine.

1,684,882. TAMPING MACHINE. AUGUSTUS J. PENOTE, Cleveland, Ohio. Filed Oct. 30, 1924. Serial No. 746,785. 15 Claims. (Cl. 94—40.)



9. A unitary, vehicular machine comprising a supporting frame, a tamper mechanism for tamping down material on the ground surface adjacent the path of the machine and actuating mechanism for operating a scraper device for movement horizontally and transverse of the path of the machine.

1,684,883. BRAKE SHOE AND METHOD OF MAKING THE SAME. CLIFTON D. PETTIS, New York, N. Y. Filed Dec. 16, 1926. Serial No. 155,176. 14 Claims. (Cl. 29—148.)



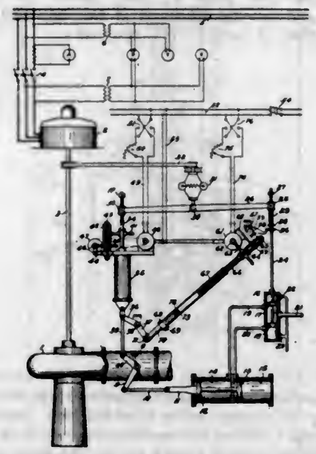
1. The method of preparing a multipart metal insert for placing within a casting mold, which consists in assembling the parts of the insert, and then deforming at least a part thereof to provide a spacing member.

14. As an article of manufacture, a reenforcing insert for brake shoes constructed to be embedded therein, said insert having a portion thereof bent out of the normal plane to provide spacing means for the insert.

1,684,884. PRIME-MOVER-CONTROLLING MEANS. ARNOLD PFAU, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 11, 1924. Serial No. 737,021. 10 Claims. (Cl. 137—158.)

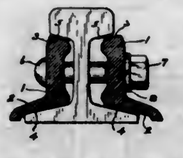
4. In a control system for a prime mover, a gate for controlling the admission of operating fluid to said prime mover, governing means for controlling said gate opening including means responsive to the speed of said prime mover for maintaining said speed at a selected value

under normal running conditions, means for robbing said governing means of its control of the maximum gate opening while still permitting operation of said prime mover,



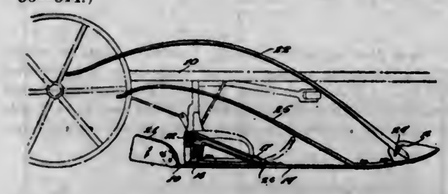
a motor for operating said control-robbing means, and means disposed at a desired distance from said motor for controlling the same.

1,684,885. RAIL-CONNECTING DEVICE. PLINY P. PIPES, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Dec. 23, 1926. Serial No. 156,537. 10 Claims. (Cl. 238—243.)



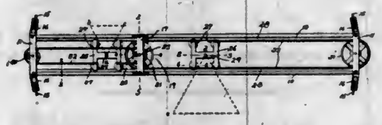
1. A rail joint comprising two alined and abutting rails, splice plates disposed on opposite sides of the rail between the head and base, a coating of metal having a higher specific conductivity than that of the rail applied to the surface of the plates and integrally united thereto and means to draw the plates into position relative to the rails and the said coatings into contact with the rail surface.

1,684,886. DIVIDER. ULDEGE A. RABIE, Yakima, Wash. Filed June 10, 1925. Serial No. 36,260. 1 Claim. (Cl. 56—314.)



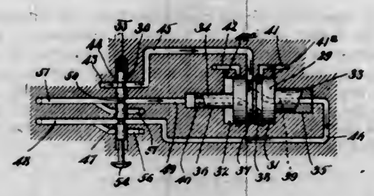
A divider attachment for a mower of the type having a sickle bar and tail-piece, said divider comprising an elongated shoe extending perpendicularly to the sickle bar and detachably mounted on the tail-piece, the shoe being also adjustable on said tail-piece to cut grass of different heights at different times; said shoe being angularly twisted at its rear end to define a laterally inclined lug, a divider board attached to said twisted portion of said shoe to throw grass to the rear of the mower into a withdraw; an inwardly and upwardly turned plate formed from the end of the shoe, a dividing finger projecting through said plate and adjustably mounted thereon, and a second finger non-adjustably connected to the shoe, the angle of the upward and inward twist of the two fingers being approximately the same.

1,684,887. PANTOGRAPH. LAT RIDGWAY, Canon, Ga. Filed Aug. 4, 1927. Serial No. 210,642. 3 Claims. (Cl. 33—23.)



1. In a pantograph, the combination of an elongated frame having a longitudinal guideway, means for pivoting the frame at an intermediate point, a carriage mounted in each end of the frame to travel in the guideway with the carriages on opposite sides of the pivotal point of the frame, a stylus mounted in each carriage, a double-rimmed pulley mounted on the frame with its axis alined with the pivotal axis of the frame, the rims of the pulley having diameters in proportional relation to each other, and bands respectively connected with the opposite carriages and each band being looped around one of the rims of the double pulley so that the travel of one of the carriages is transmitted to the other carriage with the travel of the carriages in proportional relation.

1,684,888. DRILLING MECHANISM. THORE R. E. RUNDQVIST, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 13, 1924. Serial No. 699,111. 15 Claims. (Cl. 121—9.)



1. A drill mechanism comprising a tool actuating motor, feeding means therefor including relatively movable elements, means including a valve to subject one of said elements to opposing fluid pressure created forces for automatically maintaining said feeding means in a substantially balanced condition, said valve moving oppositely automatically in accordance with variations in said forces to control the supplies of finid which produce said forces, and means including a valve operable at the will of the operator for controlling said automatic means.

1,684,889. DOUBLE-ACTING DRAWER AND SLIDE THEREFOR. CHARLES L. RUSS, Little Rock, Ark. Filed Apr. 2, 1928. Serial No. 266,626. 7 Claims. (Cl. 45—77.)

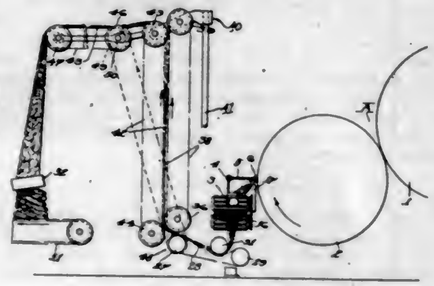
1. In combination, a fixed guide member, a double acting slide adapted to be moved in either direction with reference to the guide member, said double acting slide comprising relatively movable supporting and extension slide members, means for automatically locking the sup-

porting and extension slide members together when the two are telescoped, means for automatically releasing the slide members as the slides are moved upon the guide



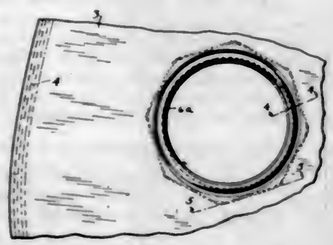
member, and frictional means for retarding the movement of the supporting slide with reference to the extension slide.

1,684,890. METHOD OF AND APPARATUS FOR TRANSFERRING CARDED MATERIAL. JOSEPH F. SCHIMEK, Worcester, Mass., assignor, by mesne assignments, to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1927. Serial No. 182,408. 6 Claims. (Cl. 19—155.)



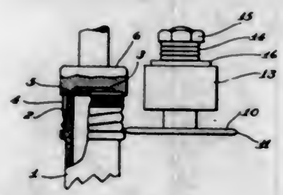
1. In apparatus of the class described, the combination with the doffer cylinder of a carding machine, of a pair of converging and downwardly moving aprons, having a substantial gap therebetween, and spaced surfaces located in the gap beneath said aprons movable about axes parallel to the axis of the doffer cylinder, whereby to gather carded material into a ribbon, the width of which is determined by the gap between said aprons.

1,684,891. METAL CONTAINER. ANTHONY SCHROEDER, Cleveland, Ohio, assignor of one-half to James Merle Finney, Cleveland, Ohio. Filed May 19, 1925. Serial No. 31,305. 6 Claims. (Cl. 220—39.)



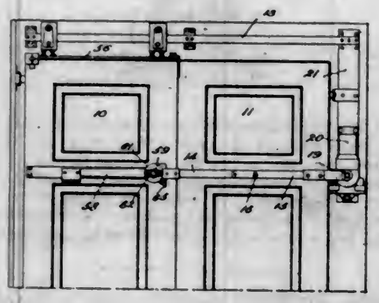
1. A bung ring comprising a neck and a body portion forming a seating base and having flat side walls disposed at angles to each other and a land on said seating base at each corner formed by said side walls.

1,684,892. METHOD OF APPLYING CLOSURE CAPS TO CONTAINERS. JOHN E. SHARP, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Original application filed June 4, 1924, Serial No. 717,724. Divided and this application filed Jan. 29, 1927. Serial No. 164,580. 2 Claims. (Cl. 226—87.)



1. The method of applying a closure cap to a receptacle having an externally screw-threaded top, which comprises placing a skirted cap on the receptacle, and progressively spinning a screw thread on the cap skirt beginning the thread at the upper and completing it at the lower threaded portion of the receptacle.

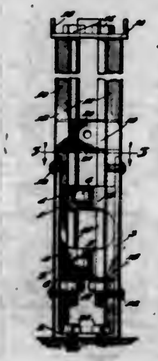
1,684,893. DOOR OPENING AND CLOSING MEANS. HAROLD W. SHONNARD, Montclair, N. J., assignor to Elevator Supplies Company, Inc., a Corporation of New Jersey. Filed Oct. 9, 1925. Serial No. 61,623. 4 Claims. (Cl. 268—55.)



1. In a door operating device, a unitary support adapted for attachment against a wall comprising a horizontal guide rail, a side plate fixed at right angles thereto near one end thereof and means near the lower end of said side plate adapted to afford a pivotal support to a toggle bar.

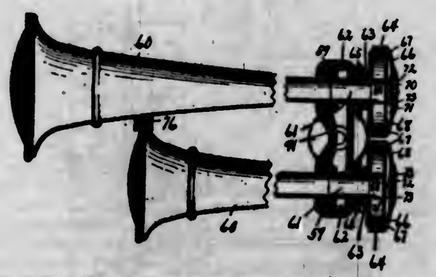
1,684,894. POST ANCHOR. SAMUEL SMILEY, Jr., Cincinnati, Ohio, assignor to The Globe-Wernicke Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 5, 1928. Serial No. 259,069. 4 Claims. (Cl. 189—39.)

2. A device for anchoring the base of a post to a floor, comprising, an element having a base flange of rectangular outline for attachment to the floor, side flanges extending upwardly from opposite sides of said base flange, said element providing uninterrupted outer surfaces for permitting the extension of post uprights to the floor line,



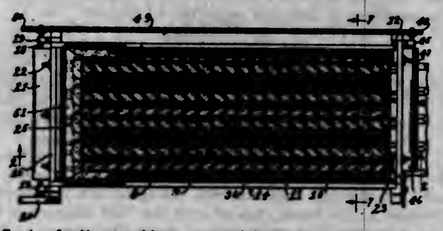
and means for securing the lower ends of post tie bolts, extending longitudinally of the post, to the anchor element.

1,684,895. SIGNALING DEVICE. WILLIAM SPARKS, THEODORE JOHNSON SCOFIELD, LLOYD ELMER JOHNSON, and FRED WILLIAM BILLIG, Jackson, Mich., assignors to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed May 18, 1927. Serial No. 192,331. 4 Claims. (Cl. 116—142.)



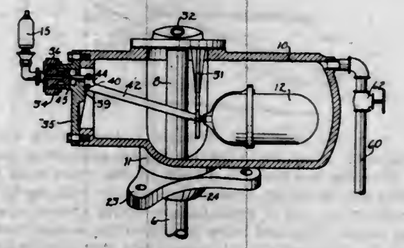
1. A signaling device comprising a motor and a rotary compressor driven thereby and adapted for unitary support, a horn body in combination with a portion of a vehicle body having an opening therethrough, and means of communication between the compressor and the horn body including a tubular member which extends through the opening in the vehicle body and secures the horn body to the vehicle body.

1,684,896. FRUIT SCRUBBER. FRED STEBLER, Riverside, Calif. Filed Jan. 31, 1927. Serial No. 164,687. 7 Claims. (Cl. 146—202.)



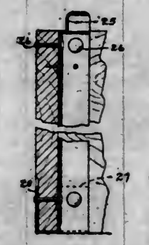
7. A fruit scrubber comprising rotatably mounted brushes positioned sufficiently close together to support the fruit, means to rotate the brushes, a roll rotatably mounted above said brushes in position to engage the fruit on the brushes, means to rotate the roll, and means to adjust the roll around the axis of one of the brushes toward and from the axis of the next adjacent brush.

1,684,897. LOW-WATER ALARM. HERMAN B. THURSTON, Cleveland Heights, Ohio. Filed July 16, 1926. Serial No. 122,916. 13 Claims. (Cl. 122—504.2.)



1. The combination of a boiler having a steam space and a water space, a low water alarm comprising a reservoir and a signal, means responsive to water level and independent of temperature disposed within the reservoir for controlling the actuation of the signal, said reservoir being disposed exteriorly of the boiler and above the water level thereof, means for filling the reservoir when the water level in the boiler rises above an established point and means for draining said reservoir at a given rate when the water level falls below said established point, whereby the alarm operates on successive occasions in response to a predetermined condition of low water.

1,684,898. BOTTLE CRATE. ERNEST TRAUTMAN, Lakewood, Ohio, assignor to The Republic Box Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 9, 1927. Serial No. 189,850. 3 Claims. (Cl. 217—69.)



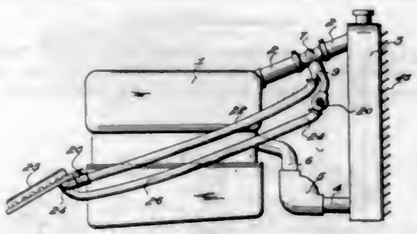
1. The combination with a rectangular container open at the top and bottom end, of a reinforcing member within each corner of the container, each member comprising a metallic angular strip having a plurality of U-shaped portions at the bottom thereof, each portion engaging the bottom and outer surface of one of the container walls, and means for fastening the member to the container.

1,684,899. WALL-BOARD REENFORCEMENT. CURRY ORA WALPER, Detroit, Mich. Filed Dec. 16, 1927. Serial No. 240,570. 4 Claims. (Cl. 72—16.)



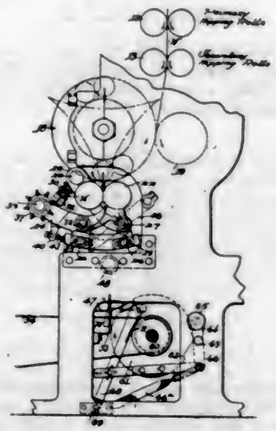
1. A reenforcing reticulated strip of a size suitable for application to a joint between composition boards, said strip having undulating edges.

1,684,900. AUTOMOBILE CIRCULATION AND HEATING SYSTEM. CHARLES B. WATERS, Montclair, N. J. Filed Nov. 20, 1926. Serial No. 149,726. 6 Claims. (Cl. 237—12.3.)



1. In combination with a water cooling system for an automobile; a hot water heating system comprising means for diverting less than 20 percent of the water from said cooling system under circulating pressure built up by the velocity of the flow of water in said cooling system; a radiating member disposed below said diverting means through which the diverted water is passed in a thin wide sheet; a feed conduit connecting said diverting means with said radiating member; and a conduit connecting said radiating member and a point in said system above said member and adjacent said diverting means for returning the diverted portion of the water to the cooling system.

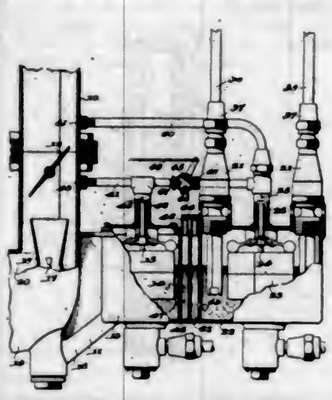
1,684,901. FOLDER. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 8, 1922, Serial No. 580,437. Renewed June 1, 1926. 13 Claims. (Cl. 270—65.)



1. In a folding machine, the combination with a rotary folder comprising a folding and a cutting cylinder for receiving the web, of a primary and a secondary pair of nipping rolls located at a distance apart for nipping the web and feeding it to the folder, and a pair of folding rolls for receiving the folded product from the folder, one of the folding rolls being mounted to yield in case of excessive strain in a substantially radial direction with respect to the folding cylinder.

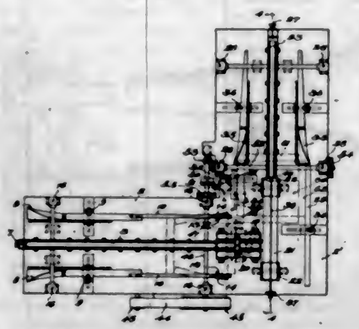
1,684,902. MIXTURE-FORMING MEANS FOR INTERNAL-COMBUSTION ENGINES. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 9, 1920. Serial No. 429,587. 9 Claims. (Cl. 261—41.)

7. In an internal combustion engine, the combination with the engine intake pipe, of mixture forming means comprising two float chambers, means connecting the upper part of one of said float chambers with said intake pipe below the throttle valve thereof, means connecting the upper



part of the other said float chamber with the intake pipe above the throttle valve thereof, and submerged vent means for each of said float chambers.

1,684,903. BLANK-BENDING MACHINE. ARTHUR L. YOUNG, Providence, R. I. Filed June 1, 1927. Serial No. 195,680. 9 Claims. (Cl. 93—52.)

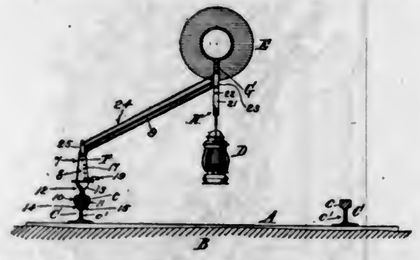


8. In a blank bending machine, a pair of conveyors having a substantially right angular relation, bending means associated with each conveyor whereby to initially bend two opposed side edges of the blank and subsequently the remaining side edges, means arranged to turn the initially bent edges about their lines of bend, a transfer conveyor between the pair of conveyors, and a horizontal guide element overlying the transfer conveyor and inclined toward the second conveyor of the pair of conveyors to bend the said initially bent side edges so as to engage same with the said second conveyor to be moved thereby.

1,684,904. SAFETY DANGER SIGNAL FOR RAILROAD TRACKS. GEORGE FRANCIS BAKER, Cincinnati, Ohio. Filed Aug. 19, 1927. Serial No. 214,108. 2 Claims. (Cl. 246—477.)

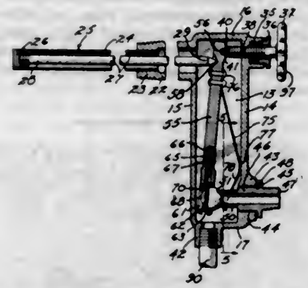
1. In a device of the character described, the combination of a pair of tapered upright bars or plates having a series of aligning holes therein, clamping-jaw formations provided at the lower ends of said bars and adapted to be closed or spread apart by pivotal connecting-means at the upper ends of said bars, a slidable lock-ring encompassing the said pair of assembled tapered bars or plates and a

suitable lock adapted to engage the said aligning holes in the assembled bars or plates for securing the latter in closed position together with the closed engagement of the said



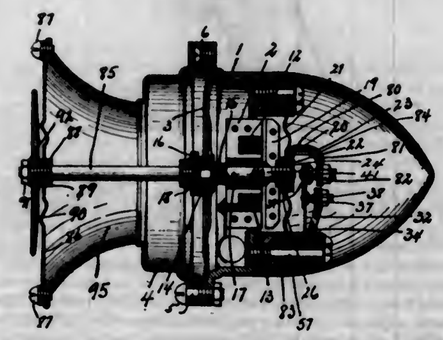
clamping-jaw formations on the head of a track-rail or other supporting object where warning of danger ahead is to be displayed, substantially as shown and described.

1,684,905. QUICK-THROW VALVE. WILLIAM B. BASTIAN, Los Angeles, Calif. Filed Apr. 27, 1927. Serial No. 187,045. 17 Claims. (Cl. 137—139.)



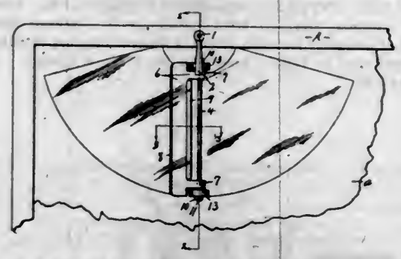
1. In a quick-throw valve, the combination of: a valve member adapted to be quickly thrown on a non-vertical axis; means for limiting movement of said member on said axis; constriction means surrounding said member and urging said member along said axis; and means yieldably urging said constriction means in a direction transverse to said axis to lift said member.

1,684,906. SIGNALING DEVICE. FRED W. BILLIG, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed June 16, 1925. Serial No. 37,458. 2 Claims. (Cl. 177—7.)



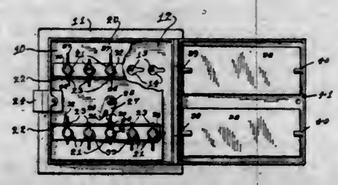
2. A born structure comprising a diaphragm, a projector extending forwardly from the diaphragm, a free edge vibratory member approaching in cross-sectional area the cross-sectional area of the front open end of the projector and disposed outside of and forwardly of the projector, and means connecting the said vibratory member to the diaphragm for simultaneous bodily movement therewith.

1,684,907. WINDSHIELD CLEANER. FRANCIS H. BLAKE, 2d, Clayton, N. Y. Filed July 15, 1927. Serial No. 205,988. 2 Claims. (Cl. 15—255.)



1. In a windshield cleaner, a frame-supporting arm, and means for moving said arm in reverse directions across the surface of the windshield, a frame having edges journaled on said arm for relatively angular movement and provided with a flat scraper along one edge, rollers secured to the frame co-axial with said arm for rolling engagement with the windshield glass to effect the angular movement of the frame as the arm is moved in reverse directions, and a flexible wiper secured to the frame across the inner edge of the scraper for engagement with said glass.

1,684,908. LOCK. FRANK O. BRUNELLE, Meriden, Conn. Filed Nov. 13, 1926. Serial No. 148,207. 8 Claims. (Cl. 70—54.)



1. In a combination lock, a casing, a locking plate slidable in said casing, said plate having a locking bolt for engaging a keeper, said plate carrying a spring-pressed slidable tumbler, said tumbler being normally in locking engagement with said casing, a slidable button on said casing for engaging said tumbler and forcing it out of locking engagement with said casing, and means for sliding said plate thereafter to withdraw said bolt from its keeper while holding the said tumbler in unlocked position.

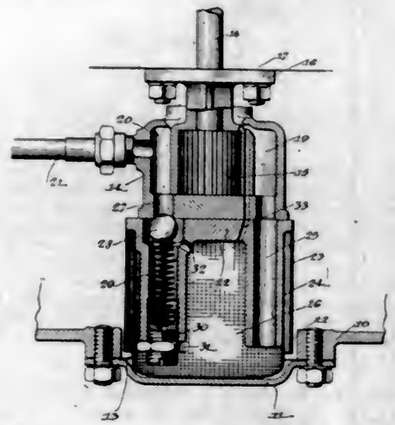
1,684,909. CROSS-CHAIN LINK. GEORGE B. CADY, Canastota, N. Y. Filed Apr. 2, 1926. Serial No. 99,271. 1 Claim. (Cl. 59—90.)



A tread link for cross chains of antiskid devices twisted so that its opposite sides cross each other in spaced relation substantially midway between its ends, two of the

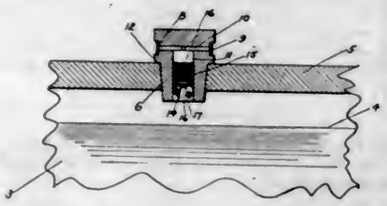
diagonally opposite corners of said link forming relatively sharp angles, the other two corners being rounded longitudinally, the rounded corners being disposed at one side of the plane of crossing of the sides and the other two diagonal corners being disposed at the opposite side of said plane, the distance between the apexes of the rounded corners being less than the distance between the apexes of the other corners.

1,684,910. INTERNAL-COMBUSTION ENGINE. ERWIN C. COOPER, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 9, 1925. Serial No. 61,575. 6 Claims. (Cl. 184—6.)



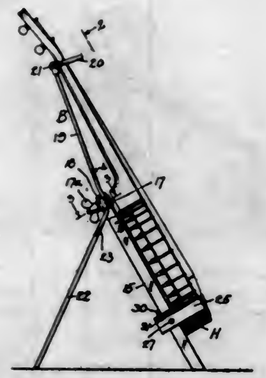
1. In an internal combustion engine, the combination with the crank case, of an oil pump mounted in the crank case and having a downwardly extending guard forming a chamber beneath the pump, the intake of the pump being near the lower part of said chamber, and means forming a relatively small passage from the upper part of said chamber to the intake side of the pump.

1,684,911. SAFETY PLUG. WILLIAM DAVIS, St. Louis, Mo., assignor of one-half to Italian-Swiss Colony, San Francisco, Calif., a Corporation of California. Filed July 26, 1926. Serial No. 124,800. 2 Claims. (Cl. 217—101.)



1. A safety device comprising a plug adapted to be inserted into the opening of a container and extend thereabove, said plug having an opening therethrough communicating at one end with the interior of said container and at its other end with the periphery of said plug at a point above said container, means in said opening of the plug to obstruct the flow of liquid therethrough, a screen intermediate said last-mentioned means and the exterior end of said opening of the plug, and means exteriorly only of the exterior end of said passage and normally sealing said passage thereat to prevent flow of gas therethrough except when the pressure of said gas exceeds a predetermined amount.

1,684,912. MUSICAL-INSTRUMENT STAND. CASPER THEODORE DUNKLAU, Los Angeles, Calif. Filed Nov. 22, 1924. Serial No. 751,587. 7 Claims. (Cl. 248—41.)



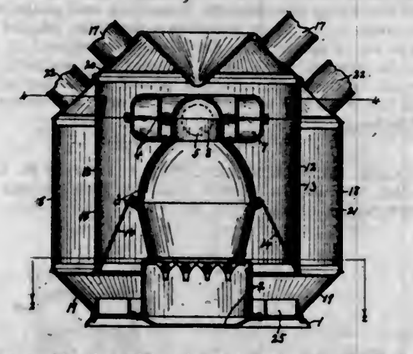
2. A stand of the character described comprising a tripod, a bracket extending upwardly from and adjustable on the tripod, brackets pivoted on two of and extending laterally from the legs of the tripod, and a flexible hammock connected at its ends to said brackets so as to be disposed to one side of said legs.

1,684,913. COMMODITY CABINET. JOHN L. FLANNERY, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 14, 1925. Serial No. 2,311. 3 Claims. (Cl. 312—123.)



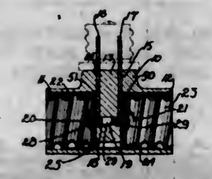
1. A commodity cabinet comprising a housing provided with a base, side-walls, and a top-wall, a front glass plate and a rear sheet-metal plate having their edge portions received in grooves with which the walls of the said housing are provided, said sheet-metal plate having openings therein arranged in horizontal rows and vertical rows, sheet-metal receptacles arranged in vertical tiers and disposed adjacent the inner surfaces of the walls intervening between the openings, said receptacles having rearwardly offset back-extensions normally closing said openings, and pivotal connections between said sheet-metal plate and said receptacles adjacent the offsets of the back-extensions.

1,684,914. WARM-AIR FURNACE. HARRY W. FRENCH, Syracuse, N. Y. Filed Oct. 4, 1927. Serial No. 223,910. 1 Claim. (Cl. 126—117.)



The combination with a furnace having a base, an ash-box mounted on the base, a fire-pot mounted on the ash-box and a warm air casing mounted upon and surrounding the firepot in spaced relation thereto, and having its lower end open and terminating in a plane some distance above the base, of a cold air jacket comprising an upright portion surrounding the casing in spaced relation thereto beyond the marginal edge of the base and having its lower end terminating in substantially the same plane as the lower end of said casing and its upper end terminating some distance below the level of the upper end of the casing, said jacket having a downwardly tapered bottom portion extending from the lower end of the upright portion to the marginal edge of the base, and an upwardly tapered top portion extending from the upper edge of the upright portion to the upper end of the casing and provided with a cold air inlet, and a top wall for the casing having its outer marginal portion tapered upwardly and united to the tapered top portion of the jacket to form a continuation thereof and provided with warm air outlets.

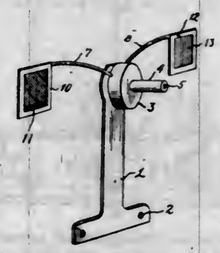
1,684,915. MULTIPLE-SOCKET ELECTRIC PLUG. ISAAC F. GILES, Malone, and JACK A. ROBERTS, Bronxville, N. Y., assignors to Ilelte Electric Manufacturing Corporation, Tuckahoe, N. Y., a Corporation of New York. Filed Apr. 18, 1925. Serial No. 24,086. 1 Claim. (Cl. 173—336.)



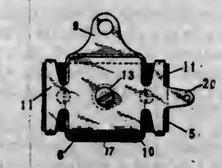
In a device of the character described, the combination of a barrel having a pair of aligned pockets, a pair of contact blades extending laterally through the wall of the barrel into the interior adjacent the base of the pockets, metallic screw shells in the pockets respectively, central metallic contacts connected to the blades respectively and operating through insulation to hold the shells in place, and a metallic strip lying along the inner surface of the barrel and contacting with the two shells whereby the sockets are connected together in series with the two contact blades.

1,684,916. DIRECTION INDICATOR FOR AUTOMOBILES. ENRIQUE GUERRERO and JOHN A. GREY, Quito, Ecuador. Filed Mar. 12, 1927, Serial No. 174,951, and in Ecuador Apr. 20, 1926. 2 Claims. (Cl. 116—51.)

1. An automobile signal comprising a bracket with provisions for attaching it to the dash board of an automobile, said bracket carrying a cylindrical portion with right and left hand colored glasses attached thereto, a handle having at its end a cup-shaped portion to fit over said cylindrical portion, and means to hold the handle rotatably over the cylindrical portion, said handle having rigidly attached thereto a signal comprising an arm with a cylindrical portion on its face, and a bulb socket rigidly held in front of the arm, the signal having a hole therethrough, a cap, the cylindrical portion being adapted to receive the lower end of the cap to enclose the bulb.

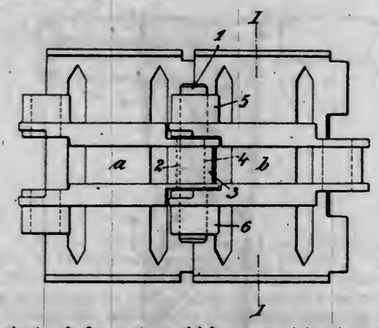


1,684,917. ADJUSTABLE CONDENSER. LLOYD A. HAMMARLUND, Rockville Center, N. Y., assignor to The Hammarlund Manufacturing Company, Incorporated, a Corporation of New York. Filed Feb. 9, 1927. Serial No. 167,003. 13 Claims. (Cl. 175—41.5.)



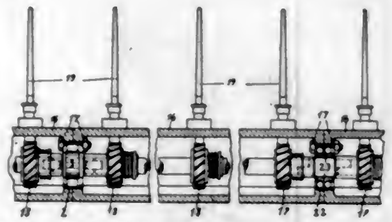
1. A variable condenser comprising an insulating base, a stationary flat plate having lugs secured to the base, an arched plate having spring wings embracing the edges of the base, a screw for drawing the two plates toward each other and changing the shape of the arched plate and a dielectric interposed between said plates.

1,684,918. CHAIN TRACK FOR MOTOR VEHICLES. VIKTOR JERECZEK, Weissensee, near Berlin, Germany, assignor to Stock Motorpflug Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed Feb. 25, 1927, Serial No. 171,023, and in Germany Dec. 17, 1925. 1 Claim. (Cl. 305—10.)



Chain track for motor vehicles, comprising in combination, chain links having pin holes, pins arranged in said holes and connecting said links, one of said pin holes of each of said links being wider in diameter than the pin, and each pin having a flat surface, and a corresponding flat surface provided in said hole, said two surfaces being adapted to prevent rotary movement of said pin within said hole, the other of said holes of each link having a diameter adapted to allow only a rotary movement of two adjoining chain links.

1,684,919. SPINNING SHAFTING. JOHANN JACOB KEYSER, Aarau, Switzerland. Filed July 6, 1927, Serial No. 203,852, and in Germany July 12, 1926. 4 Claims. (Cl. 64—29.)

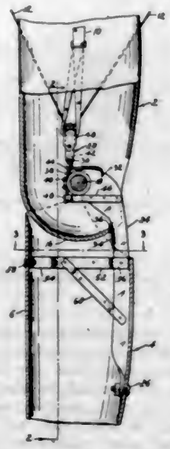


1. Sectional shafting construction comprising bearings supported in spaced relation, stub journals mounted in said bearings, shaft sections between said stub journals and in alignment therewith, the opposite ends of said shaft sections and stub journals being formed with interengageable coupling portions, said interengaging portions being all of identical shape to provide for universal interchangeability of said parts, and means for securing said stub journals and shaft sections in coupled relation, said interengaging ends being formed to permit transverse removal of said shaft sections when said securing means have been released.

1,684,920. WATER-SOLUBLE ORGANIC COMPOUND OF ANTIMONY AND PROCESS OF PRODUCING IT. MORRIS S. KHARASCH, College Park, Md., assignor to Eli Lilly and Company, Indianapolis, Ind., a Corporation of Indiana. Filed Jan. 24, 1928. Serial No. 249,196. 24 Claims. (Cl. 260—11.)

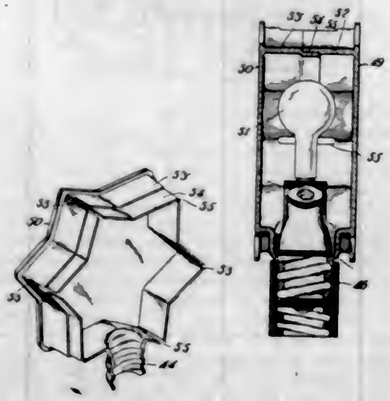
1. The step in the method of producing water-soluble compounds of organic stibinous compounds, which comprises treating, in a solvent, a stibinous compound in which at least one valence bond of the antimony is attached to an inorganic radical of other than the sulphur family (sulphur, selenium, and tellurium) and at least one valence bond of the antimony is directly attached to a carbon atom of an organic radical, with an organic compound containing both an acid radical and a sulfhydryl group and having the sulfhydryl group directly attached to a carbon atom.

1,684,921. ARTIFICIAL LEG. LESLIE J. LAMB, Oakland, Calif. Filed Nov. 18, 1926. Serial No. 149,094. 4 Claims. (Cl. 3—2.)



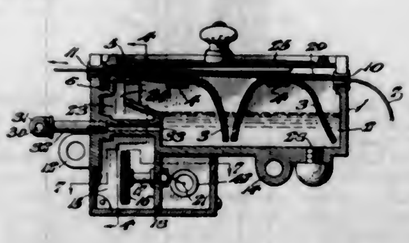
1. In combination with an artificial leg comprising a tubular upper limb portion, a harness strap from said upper limb portion adapted to attach the artificial leg to the wearer's stump, a tubular lower leg, a hinge pivotally connecting the lower leg to said upper portion, a pivotal arm connecting the hinge pin to the rear wall of the tubular lower leg, a brace connecting the front wall of the lower leg to said arm, a flexible support secured to said arm in front of, immediately adjacent, and partially concentric, to the hinge axis, and pivotal means connecting said support to said harness strap to control the inclination of the lower leg.

1,684,922. ORNAMENTAL LIGHT. LAWRENCE W. MAMMEN, Chicago, Ill. Filed June 11, 1926. Serial No. 115,211. 5 Claims. (Cl. 40—126.)



1. An ornamental light of the character described comprising two complementary side wall members formed in simulation of a star, the perimeters of the side walls being disposed toward each other and arranged in interengaging relation, the perimeters of the walls at predetermined points being formed to permit outward passage of light-rays, each side wall being provided with a semi-cylindrical hub adapted to provide a bulb-holding socket, and a member encircling the hub portions of both wall members.

1,684,923. APPARATUS FOR SOFTENING SILK, YARN, AND THE LIKE. HERMAN MAYER, Philadelphia, Pa. Filed Mar. 3, 1928. Serial No. 258,792. 6 Claims. (Cl. 91—38.)



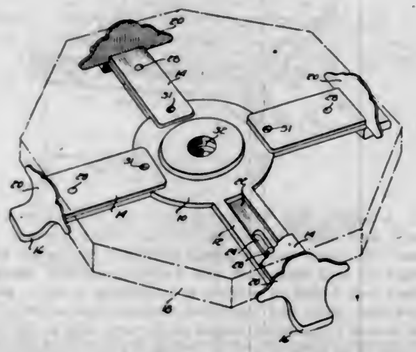
1. In a device of the character stated, a moistening receptacle having a chamber adapted to contain a liquid, a bar in the upper portion thereof, a wick supported on said bar and having its ends submerged in said liquid, front and rear guiding devices for the threads to be moistened, a heating chamber in said receptacle and below the liquid chamber therein arranged isolated from the latter at all times, and a heating element for said chamber also isolated from said liquid.

1,684,924. RAILWAY HIGHWAY CROSSING. HENRY E. MUCHNIC, Atchison, Kans., assignor to The Locomotive Finished Material Company, Atchison, Kans., a Corporation of Kansas. Filed May 6, 1927. Serial No. 189,195. 10 Claims. (Cl. 238—8.)



1. A railroad highway crossing comprising a plurality of parallelly disposed T-shaped members arranged to present a flat upper surface, spacing members intermediate of the vertically disposed sides of adjacent T-shaped members, and fastening means disposed transversely through the T-shaped members and the spacing members.

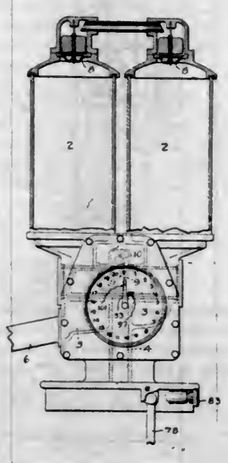
1,684,925. ADJUSTABLE BASE. HENRY A. PEALMUTTER, Brooklyn, N. Y., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 14, 1927. Serial No. 175,151. 2 Claims. (Cl. 248—41.)



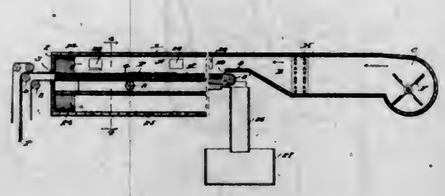
1. A base frame of the class described, comprising a central plate provided with radially extending arms having longitudinally extending grooves at their upper sides and provided with elongated slots extending therethrough at the base of said grooves, and a plurality of leg members having tongues on their under sides to engage said grooves, and fastening means extending through said elongated slots to engage said legs and clamp same in adjusted relation with respect to said arms.

1,684,926. PREDETERMINER AND INDICATOR. EDWARD M. PIERCE and WILLIAM M. CARROLL, Dayton, Ohio, assignors to Augustine Davis, Jr., Cincinnati, Ohio. Filed Dec. 14, 1926. Serial No. 154,693. 35 Claims. (Cl. 221—101.)

29. In a measuring dispenser having a master element for rendering the dispenser inoperable when a predetermined quantity has been delivered, a predetermining and indicating mechanism comprising the combination of a primary toothed gear wheel which is operated with the operation of the dispenser, a predeterminer having a gear wheel, said predeterminer controlling said master element, an indicator having a gear wheel, an intermediate gear wheel device meshing on the one hand with said primary wheel and on the other hand with the gear wheels of the predeterminer and the indicator, means for shifting said intermediate gear wheel device out of mesh and for locking said primary wheel, and a stationary pin for locking the intermediate gear wheel member when so shifted.

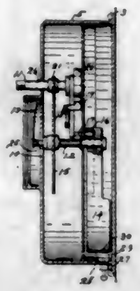


1,684,927. APPARATUS FOR DRYING FUR PELTS. ATTILIO PIERINI, Springfield Gardens, N. Y.; ARTHUR T. HOPKINS, Cambridge, and HARRY M. HAVEN, Winchester, Mass. Filed Feb. 3, 1927. Serial No. 165,655. 6 Claims. (Cl. 34—12.)



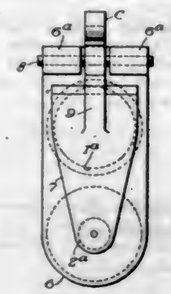
1. A drying apparatus comprising an elongated conduit having an entrance at one end and an air inlet at the other end from which an air current is introduced into the conduit, a conveyer in said conduit to move the material to be dried from said entrance to a material discharge opening intermediate the length of said conduit, and a heating element interposed between said point of discharge in the conduit and said air inlet opening, and air return means connected to the forward and rear end portions of said conduit whereby said air currents may be recirculated through said conduit, controlled means in said return means for discharging a portion of the air therefrom and other controlled means in said return conduit for admitting fresh air thereto, and means for circulating said air.

1,684,928. ODOMETER. ROBERT M. SIMPSON, Jr., Chicago, Ill. Filed June 15, 1927. Serial No. 198,911. 3 Claims. (Cl. 235—103.)



1. An odometer comprising an indicator shaft, a rotatable weight, an eccentric mounting for said weight, a cam track in the weight, a cam follower for said cam track, a cam follower arm, a pawl on said arm, a pinion and shaft provided with a ratchet for said pawl, and a main shaft and indicator provided with a gear interconnected with the pinion.

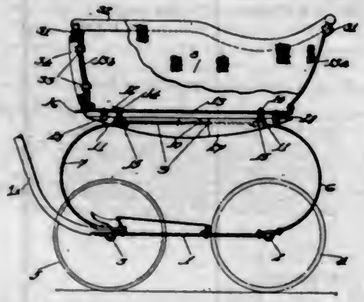
1,684,929. MAGNETIC APPARATUS. CLARENCE S. SNAVELY, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 24, 1923. Serial No. 670,446. 3 Claims. (Cl. 175—337.)



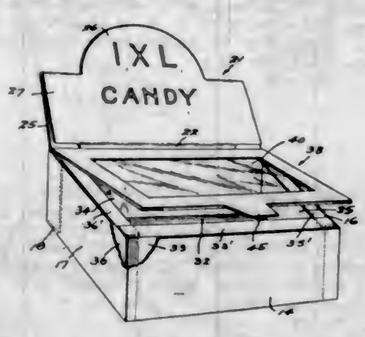
1. Magnetic apparatus comprising two pole faces of different areas, and a tapered armature having a larger area adjacent the larger pole face and a smaller area adjacent the smaller pole face.

1,684,930. BABY CARRIAGE. RICHARD STINSON, Gardner, Mass., assignor to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 8, 1925. Serial No. 21,583. 2 Claims. (Cl. 296—35.)

1. In a vehicle of the class described, the combination with a running gear assembly and a carriage body assembly, of oppositely facing hooks carried by said running gear assembly, transverse members carried by said carriage body assembly, downwardly depending portions formed in said transverse members to engage said hooks, one of said transverse members being pivotally mounted, operating means to swing said pivotally mounted transverse member to disengage said carriage body from said running gear assembly, and spring means to return said transverse member to original position.

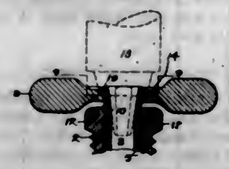


1,684,931. FOLDING BOX. FRANK E. WARNER, Seattle, Wash. Filed Oct. 27, 1924. Serial No. 745,959. 3 Claims. (Cl. 206—44.)



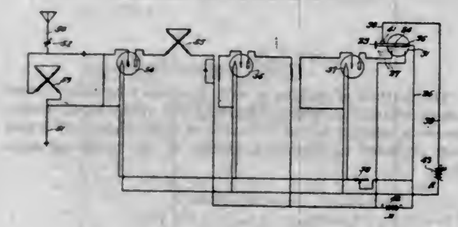
1. A folding box comprising an inner member which is scored and folded to provide the box cover, bottom, and inner side, front and back wall elements, said cover being hinged to said back wall, and an outer member which is scored and folded to provide a continuous band to afford outer side, front and back wall elements, and a cover, the last named cover being hinged at its rear edge to the back of said outer member and having at its front a protruding tucking flap, said members being secured together by uniting to afford therebetween an interstice to receive said tucking flap.

1,684,932. METHOD OF UNITING METAL PARTS TOGETHER. ALBERT J. WEATHERHEAD, Jr., Cleveland, Ohio. Filed Apr. 13, 1925. Serial No. 22,732. 9 Claims. (Cl. 29—157.)



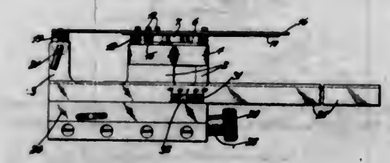
1. A method of uniting metal parts together, consisting in producing in one part an opening bordered with axially-extending angular teeth and interspaces, and in inserting a second part into said toothed opening and expanding the wall thereof on flaring lines opposite said axially extending teeth and interspaces until said parts are interlocked together.

1,684,933. RADIO ATTACHMENT FOR TALKING MACHINES. EUGENE A. WIDMANN, Brooklyn, N. Y., and FRANK D. LEWIS, West Orange, N. J., assignors, by mesne assignments, to Pathe Phonograph & Radio Corporation, a Corporation of New York. Filed June 6, 1922. Serial No. 566,224. 5 Claims. (Cl. 179—100.1.)



1. The combination of a radio receiving apparatus comprising a telephone receiver; a tone arm provided with a stylus holder and movable into and out of a position in which the stylus in said holder is engaged with the diaphragm of the telephone receiver; an amplifier with which the tone arm is connected; and means for completing the circuit through the receiving apparatus and also for controlling access of the stylus to the diaphragm of said receiver.

1,684,934. CUTTING DIE. ROY V. WOODWORTH, St. Louis, Mo., assignor to Western Supplies Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 23, 1927. Serial No. 221,496. 7 Claims. (Cl. 164—29.)

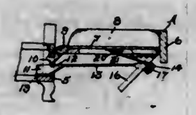


1. A die comprising a base, a cutter extending upwardly from said base, a plate having an opening above and larger than said cutter, a series of guide pins for guiding said plate in its movements, springs encircling said pins and supporting said plate above the plane of the upper edge of said cutter, a series of abutments extending upwardly through and movable independently of said plate, springs for supporting said abutments, and parts on said abutment pins engaging against said plate and limiting upward movement of said guide pins.

1,684,935. PROCESS FOR EXTRACTION OF SALTS FROM AQUEOUS SOLUTIONS. DEMETRIUS GEORGE ZALOCOSTAS, deceased, Bondi, near Sydney, New South Wales, Australia, by Andrianne Zalocostas, executrix, Bondi, near Sydney, and John Velissaropulos, executor, Bellevue Hill, near Sydney, Australia, assignors to The Salt Production Syndicate Limited, Sydney, New South Wales, Australia, an Incorporated Company of New South Wales. Filed Mar. 28, 1925, Serial No. 19,009, and in Australia Apr. 10, 1924. 3 Claims. (Cl. 23—44.)

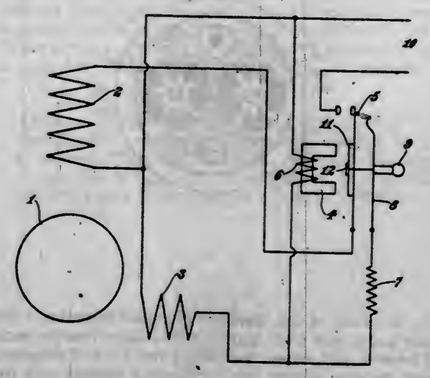
1. A process for the extraction of salts from sea water which consists in conducting the evaporation at high temperature until a concentration point is reached below that at which calcium sulphate is precipitated, transferring the concentrated brine to another closed chamber having the temperature of its heating surfaces maintained at about 38° C. and under vacuum sufficient to procure rapid evaporation at that temperature, thereby to procure the precipitation of the calcium sulphate as a mud, then transferring the strong brine to another evaporator and continuing evaporation therein for the precipitation of sodium chloride, and finally removing the residual liquor containing the bitterns.

1,684,936. ARTICLE OF FURNITURE. HENRY ALLEMEIER, Toledo, Ohio, assignor to The Woodcraft Company, Toledo, Ohio, a Corporation of Ohio. Filed May 3, 1926. Serial No. 106,183. 3 Claims. (Cl. 5—21.)



3. The combination of a frame, a support movable in and out of said frame, an arm carried by said support and engageable with said frame to limit outward movement thereof, and leg means pivoted to said support and at an intermediate portion to said arm and arranged to be grasped for outward swinging movement to elevate said support.

1,684,937. MOTOR-STARTING DEVICE. EDWIN C. BALLMAN, St. Louis, Mo., assignor to Valley Electric Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 22, 1921. Serial No. 517,024. 13 Claims. (Cl. 172—120.)



1. In combination with an induction motor having main and starting windings, a switch adapted to connect said windings to a source of supply, and an electro-magnet connected in circuit with and controlled by current traversing the starting winding adapted to hold said switch to maintain connection with the source of supply.

1,684,938. CONTAINER FOR FOOD PRODUCTS. FREDERICK E. BICKFORD, Rochester, N. Y. Filed June 30, 1926. Serial No. 119,653. 12 Claims. (Cl. 215—40.)

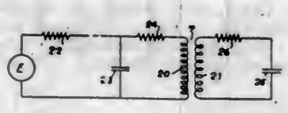
1. A vessel or container open at its upper end and formed with a pitcher spout opening, and having below

said spout opening an exterior circumferential sealing surface, the spout portion of the container being substantially



entirely within the vertical extension of said sealing surface, and a handle opposite said spout and below said sealing surface.

1,684,939. RADIOFREQUENCY AMPLIFIER AND METHOD OF MAKING AND OPERATING THE SAME. ALBERT S. BLATTERMAN, Asbury Park, N. J., assignor to Ware Radio, Inc., a Corporation of Delaware. Filed July 14, 1922. Serial No. 574,881. 1 Claim. (Cl. 179—171.)

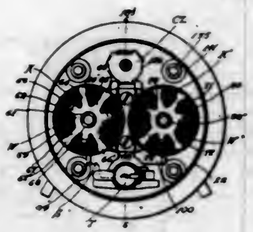


The method of making a radio frequency amplifier transformer which consists in adjusting the values of its inductances in relation to the constants of the circuits with which it is intended to operate according to the following equation:

$$\frac{V_2}{V_1}=\frac{\mu}{\omega C_2\sqrt{\left(\frac{L_1L_2C_2(1-K^2)\omega^2L_1^2}{\omega K\sqrt{L_1L_2C_2}}\right)+\frac{R\omega^2}{\omega^4C_2^2K^2L_1L_2}\left(1-\omega^2(L_1C_1+L_2C_2)^2+\omega^4L_1C_1L_2C_2(1-K^2)\right)}}$$

to produce a maximum ratio of V_2 to V_1 therein over the range of frequencies throughout which it is desired to operate.

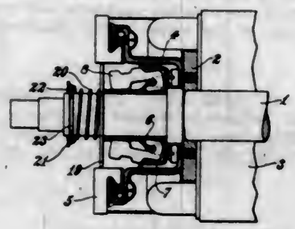
1,684,940. LIGHTING AND IGNITION SWITCH. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 26, 1924. Serial No. 752,296. 29 Claims. (Cl. 200—14.)



1. A switch of the character described including a front plate and a back plate, a pair of rotatable elements mounted between said plates, operating levers for said elements, a shaft for each of said levers extending through said front plate, said elements and said back plate, said shafts each having a pair of lugs, and means intermediate of the ends of said shafts including cup-shaped members adapted to engage said pair of lugs for detachably locking said shafts against longitudinal movement.

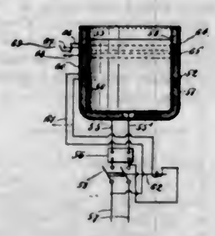
1,684,941. SHORT-CIRCUITING DEVICE. FRANCIS J. BULLIVANT, St. Louis, Mo., assignor to Valley Electric Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 5, 1925. Serial No. 67,111. 9 Claims. (Cl. 172—279.)

1. A commutator short-circuiting device, comprising, a support, a series of centrifugally operable contactors thereon, a part on said support adapted to provide a moving pivot bearing for said contactors, a retainer movable on said support and engaging said contactors to retain the same in



inoperative position, means for tensioning said retainer, and means for interlocking said retainer with said support.

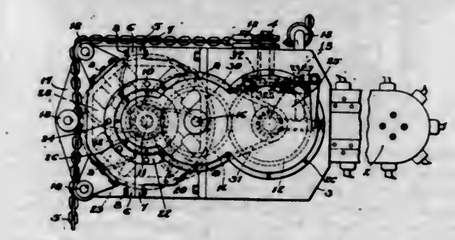
1,684,942. ELECTRICAL HEATING APPARATUS. ROBERT A. CARLETON, Newton, Mass. Filed Feb. 21, 1927. Serial No. 169,698. 17 Claims. (Cl. 219—44.)



1. In an electric heating apparatus, the combination comprising a comparatively high resistance heating element, a comparatively low resistance conductor element

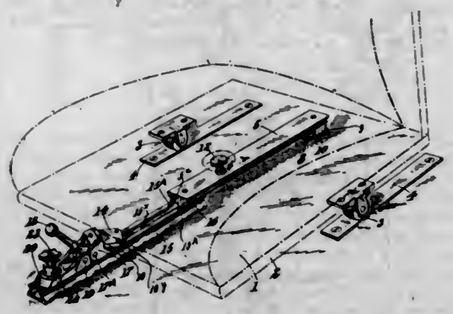
through which electric current is supplied to the high resistance element to pass through said high resistance element for heating it, said elements being so arranged that the current flowing in one element will always be in an opposite direction to that flowing in the other element whereby the magnetic field due to the currents will be substantially neutralized, and means for supplying electric current to said elements.

1,684,943. MINING MACHINE. FRANK CARTLIDGE, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 21, 1918, Serial No. 241,205. Renewed July 19, 1923. 90 Claims. (Cl. 262—30.)



1. In a mining machine, a frame, cutting mechanism thereon including a cutter bar, a vertical motor operatively connected to said cutting mechanism, and means whereby the motor armature may be removed laterally.

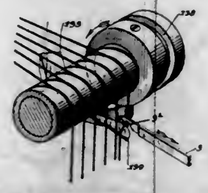
1,684,944. SLIDABLE SEAT FOR VEHICLES AND THE LIKE. ARTHUR WILLIAM CHAPMAN, London, England. Filed July 31, 1926, Serial No. 126,191, and in Great Britain July 15, 1925. 25 Claims. (Cl. 155—14.)



1. A device of the character described comprising a guiding member, an anchoring member slidably mounted thereon to permit of the adjustment of the device for leg length, manually operable means carried by said anchoring member for securing the same in predetermined adjusted positions on said guiding member, a seat member movable along the line of travel of said anchoring member, and manually operable means for securing said seat member to said anchoring member in each position thereof and for releasing said seat to permit of the movement thereof relative to said anchoring member.

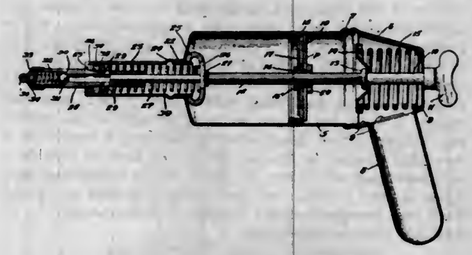
1,684,945. THREAD-HANDLING MECHANISM. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Sept. 26, 1924. Serial No. 740,013. 7 Claims. (Cl. 28—44.)

1. A thread-handling mechanism having, in combination, a rotary thread-selecting worm, a hooked drawing needle movable into position alongside a thread selected by said worm, a cam connected to rotate with said worm, a pivoted bracket, a deflector mounted on said bracket and arranged



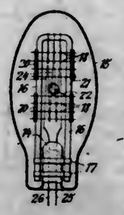
to be moved by said cam to bend said thread across the needle whereby upon retraction of the needle the deflected thread springs into the hook, and a spring for yieldingly holding said bracket in operative position.

1,684,946. LUBRICANT COMPRESSOR. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed May 3, 1924. Serial No. 710,775. 13 Claims. (Cl. 221—47.4.)



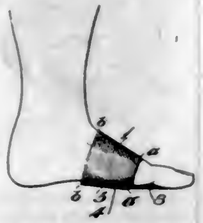
5. A lubricant compressor, comprising a barrel, spring means in said barrel for placing the lubricant therein under pressure, a sleeve communicating with said barrel, a cylinder reciprocably mounted in said sleeve and communicating therewith, a piston carried by said cylinder and subjected to the pressure of the lubricant in said sleeve, and a plunger for expelling the lubricant from said cylinder.

1,684,947. VACUUM DISCHARGE APPARATUS. WILHELM DAUMANN, Hamburg, Germany, assignor to C. H. F. Müller, Röntgenröhrenfabrik, Hamburg, Germany, a Corporation of Germany. Filed June 15, 1923, Serial No. 645,483, and in Germany June 23, 1922. 3 Claims. (Cl. 250—27.5.)



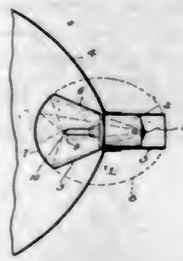
1. A vacuum discharge apparatus comprising an evacuated receptacle, a cathode adapted to be heated to incandescence, and an anode surrounding said cathode and comprising spaced perforated end plates extending transversely to said cathode at different points of its length, and additional perforated plates located between said end plates and spaced from each other and from the end plates, said additional plates likewise extending transversely to said cathode at different points of its length, and adjoining plates being connected with each other conductively.

1,684,948. METATARSAL PAD. ALEXANDER DEGLING, Philadelphia, Pa. Filed Mar. 3, 1927. Serial No. 172,256. 1 Claim. (Cl. 36—71.)



A metatarsal pad comprising an elastic band of one piece of material for fitting over the middle cuneiform of the human foot, which band at its bottom is formed upon an arc of a circle considered in cross section, with the meeting edges of the arch so formed arranged centrally of the band, a pliable elongated strip stitched upon the arch top and covering the said meeting edges of the arch to provide a reinforcing member, a flat pliable member stitched to the underside of said band at the juncture of the arch ends with the main part of the band to form a pocket immediately below said arch and elongated strip, which pocket is of gradually decreasing height as it nears the rear of the band, which pocket extends beneath the major portion of the scaphoid of the human foot, and a removable elliptical shaped pad fitted within said pocket, said pad having a convexed upper surface throughout its extent and which surface longitudinally considered tapers to a very thin portion at the pad front and back to provide a reversible pad which may be fitted to the contracted rear space of said pocket, said pad being arranged to extend from the sesamoid of the human foot rearwardly to at least the internal cuneiform.

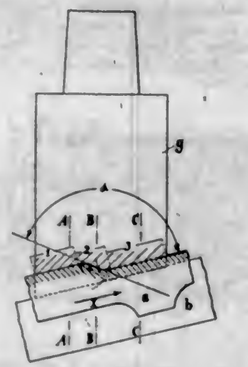
1,684,949. INCANDESCENT LAMP BULB. HAROLD B. DONLEY, Columbus, Ohio, assignor of one-third to W. Herbert Bretzlaff, Indianapolis, Ind. Filed May 1, 1926. Serial No. 106,096. 1 Claim. (Cl. 176—34.)



In a lamp, a base, a glass bulb projecting forwardly from said base and including a conoidal body portion and a substantially elliptical front wall, the body portion and the said wall being of uniform thickness throughout, an unobstructed filament positioned within said bulb and so placed with respect to the elliptical front wall thereof that the internally reflected light rays from said wall are thrown back into the area of the lamp base.

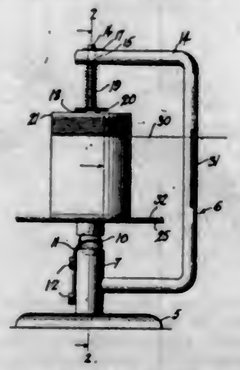
1,684,950. MANUFACTURE OF SKATE BLADES WITH THICKENED EDGES. HUGO DORNSEIF, Radevormwald, Germany. Filed Oct. 2, 1925. Serial No. 60,116, and in Germany Oct. 2, 1924. 10 Claims. (Cl. 78—81.)

1. In a machine for cold swaging a skate blank for the production thereon of a runner edge of widened cross-section with respect to the thickness of the blank body, a support for the blank, a die of a length for swaging a comparatively small portion of the edge of the blank compared with its length on each swaging action, said die having a channeled swaging face provided with an inclined central swaging surface, a shallow front portion to embrace and hold the unswaged edge of the blank in advance of the swaging point from lateral deflection, and a relatively deeper and flaring rear portion to embrace and hold the



swaged portion of the blank in rear of the swaging point from lateral deflection, means for reciprocating said die to act on successive short portions of the blank as presented thereto by intermittent relative movements between the blank and die, and means for shifting the support and blank relative to the die to present new portions of the blank to the action of the die successively from end to end of the blank.

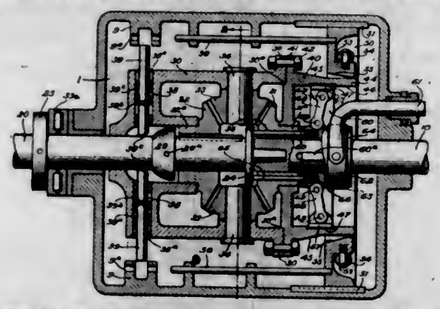
1,684,951. SPOOL-HOLDING DEVICE. JAMES T. DOWDALL, Glen Morris, N. Y. Filed June 16, 1927. Serial No. 199,152. 3 Claims. (Cl. 242—134.)



1. In a spool holding device, a support having a cavity, a ball within the cavity, a ball retaining bifurcated member on the support, a spool supporting base, a bearing stud in the base upon which the spool is adapted to be frictionally mounted to rotate therewith upon the ball, a frame on the support, and a spool guiding bearing mounted in the frame in line with the bearing stud in the base.

1,684,952. TRANSMISSION DEVICE FOR MARINE MOTORS. WILLIAM C. ESLECK, Whitestone, N. Y. Filed Aug. 11, 1926. Serial No. 128,619. 11 Claims. (Cl. 74—34.)

1. In a power transmission device with differential reverse gears, a case operably mounted within, an actuating shaft entering said case and having pinned thereto one of said gears; a propeller shaft having one end slidably entering said case in axial alignment with said actuating shaft and having another of said gears splined thereon; a clutch having a longitudinally movable hub splined upon said actuating shaft and a divided band expansively supported thereon and adapted to be actuated into frictional contact



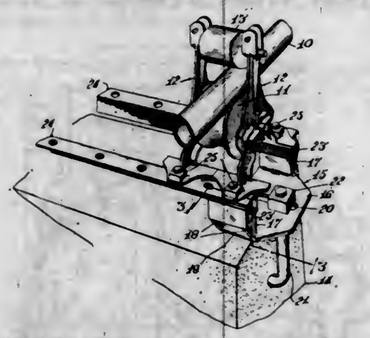
with said case by sliding the clutch in the direction thereof; pins in said hub parallel to said actuating shaft and extending beyond the end thereof when said hub has been carried in the direction thereof; orifices disposed in the end of said propeller shaft and adapted to receive said pins when the propeller thrusts its said shaft in the direction thereof.

1,684,953. SUPPORTING BRACKET FOR RAILWAY SIGNALS. EDWARD A. EVERETT, New York, N. Y. Filed Mar. 26, 1926. Serial No. 97,514. 1 Claim. (Cl. 248—20.)

A support for a railway signal device as described, comprising a clamping part and a bracket arm for supporting the device, said clamping part comprising a casting for clamping against the signal mast and having a vertical disc face parallel with the longitudinal center of and close to the mast and centered on the longitudinal centre line of the mast, said bracket arm terminating in a disc face off-set upward from the line of the arm, said disc face matching the disc face of the clamp to which it is pivotally secured through the centre of the discs and in line with the longitudinal centre of the mast, said disc faces being machined smooth to form an abutting bearing having uniform tension in any adjusted position and the free end of said arm terminating in a horizontal disc to match a corresponding disc on the signal device and to which it is pivotally secured.

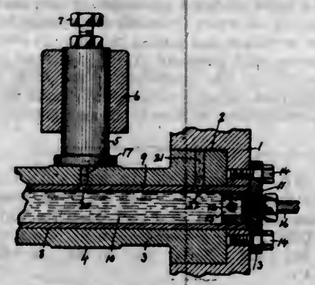
1,684,954. SWITCH AND SIGNAL-ROD-CARRIER SUPPORT. OTTO S. FLATH, Chicago, Ill. Filed Feb. 25, 1924. Serial No. 694,833. 1 Claim. (Cl. 249—30.)

In a carrier support, the combination of a pedestal consisting of a substantially flat body portion of greater width intermediate of its ends and slotted transversely, the bottom of said portion being provided with transversely disposed reenforcing and bearing ribs, the ends of the body portion being disposed upwardly and increasing in thickness to provide head portions having flat upper surfaces, said head portions being each provided with a transversely disposed inverted T-shape slot open at opposite sides of the head portion, connecting webs on the outer ends of the pedestal between the body portion and the head portions, angle bars supported on said head portions with one side of each angle bar in lapping relation with a side of the respective head portion while the other side of the angle bar rests on the upper face of the respective head por-



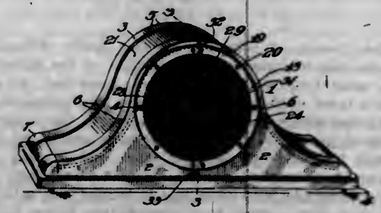
tion transversely of the slot therein, with bolts for securing the angle bars on the pedestal, the heads of the bolts being inverted in said T-shaped slots, said bolts also securing the carrier in place.

1,684,955. POPPET-VALVE ACTUATING DEVICE. WILLIAM M. GOODWIN, Central Square, N. Y. Filed May 3, 1927. Serial No. 188,471. 2 Claims. (Cl. 184—7.)



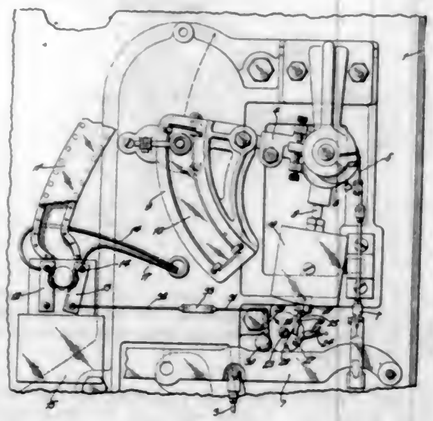
1. In a poppet-valve actuating device, a non-rotatable oil containing member having a peripheral oil outlet passage relatively narrow circumferentially, a cam-shaft rotatable around and upon said member and provided with a cam surface, and a valve operating tappet in contact with the cam surface, said cam shaft having an oil outlet relatively narrow circumferentially and extending to the surface of the cam for registration with the first-named outlet once during each revolution of the shaft when the oil outlet in the cam shaft is registered with the tappet.

1,684,956. LOUD SPEAKER FOR RADIO RECEIVING APPARATUS. ALFRED H. HAAG, Baltimore, Md., assignor of fifteen one-hundredths to E. Hayward Fairbanks, Merchantville, N. J. Filed Jan. 26, 1925. Serial No. 4,708. 8 Claims. (Cl. 181—27.)



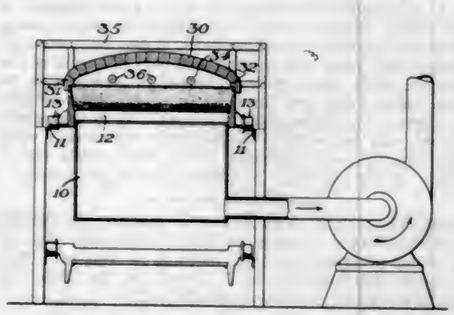
1. In a device of the character stated, an amplifier for sound reproducing mechanism having a clock face formed on the front of the vibratory portion thereof and movable clock hands coacting with said clock face.

1,684,957. SCALE. FRED B. HAMBLIN, St. Louis, Mo., assignor to The Weightograph Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 30, 1926. Serial No. 138,608. 8 Claims. (Cl. 194—6.)



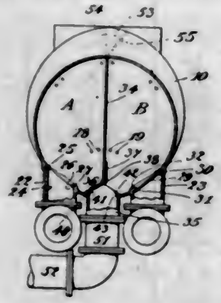
1. In a scale having a pendulum, a coin seat including members, one of which is relatively movable in respect of the other to engage and release the coin, an electric circuit closed across said members by the coin, and an actuator under control of the pendulum of the scale for moving one of said coin-engaging members to release the coin when the scale mechanism returns to normal position.

1,684,958. PROCESS OF TREATING FINES OF EARTHY MINERALS. REED W. HYDE, Summit, N. J., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 30, 1925. Serial No. 26,924. 8 Claims. (Cl. 222—4.)



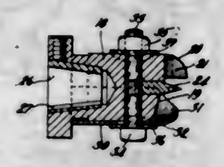
1. The process of calcining alkaline earth carbonates, which consists in mixing small particles of the carbonate with a small proportion of solid fuel, spreading the mixture in a layer uniform as to thickness and permeability, exposing the entire surface of the layer to the action of the heated gases of combustion from a source of heat supported independently of said layer and causing said gases to pass through the entire layer at a relatively constant rate whereby said solid fuel is burned and said carbonate is rapidly heated to a temperature below the incipient fusion point and above the decomposition temperature of the carbonate and maintaining the layer within the said temperature range by continued passage of said gases until the carbonate is converted into oxide.

1,684,959. CONDENSER. EINAR A. JOHNSEN, Mountain Lakes, N. J., assignor to Engineering Development Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Jan. 7, 1927. Serial No. 159,517. 9 Claims. (Cl. 257—43.)



1. In a two pass surface condenser, a shell, banks of tubes therein, a water box at one end of the shell, means shiftable within the water box for directing the flow of a circulating medium to a predetermined bank of tubes, and means also shiftable in the water box for controlling the discharge of the circulating medium therefrom whereby the circulating medium may be directed to pass in one direction through one bank of tubes and in another direction through another bank of tubes and by shifting the position of the said means the circulating medium may be directed to flow in the opposite direction through the last aforesaid bank of tubes and in the opposite direction through the first aforesaid bank of tubes.

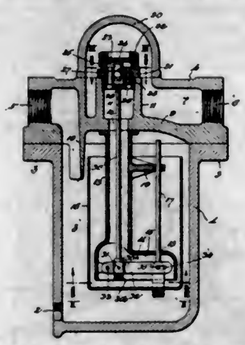
1,684,960. LAST-ENGAGING DOG FOR LAST LATHES. WILLIAM H. KAY, Lynn, Mass. Filed Aug. 31, 1926. Serial No. 132,836. 2 Claims. (Cl. 142—55.)



1. A last dog comprising a body having means at one end whereby it may be coupled to the live spindle of a last lathe, so that the body is coaxial with the spindle, and provided at its opposite end with a spur coaxial with the body and formed to engage the midlength portion of the heel-end face of a last, and with fixed non-adjustable centering ears projecting from the body at one side of the spur, and formed to engage the upper end portion of said end face, a slide movable on the body in a direction parallel with the axis thereof, and provided with centering ears projecting from the body at the opposite side of the spur, and spaced therefrom to engage the lower end portion of the heel-end face of the last, and means for releasably clamping the slide to the body, so that the centering ears of the slide may project variably from the body, the arrangement being such that the adjustable centering ears cooperate with the spur and the fixed centering ears in engaging the heel-end face of the last at a plurality of points above the heel-seat face thereof, and positively maintaining the last at various inclinations relative to the spur.

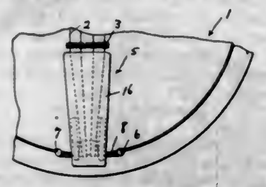
1,684,961. STEAM TRAP. WILFRED H. KUHN, Detroit, Mich. Filed June 29, 1925. Serial No. 40,243. 4 Claims. (Cl. 137—103.)

1. A device of the character described comprising a casing forming a chamber for water of condensation, a valve to control the flow of water from said chamber, a tubular member depending into said chamber and forming a passage for the outflowing water, a lateral extension at the lower end of the tubular member, a bucket within the chamber surrounding the tubular member, with the tubular member extending into the bucket to near the bot-



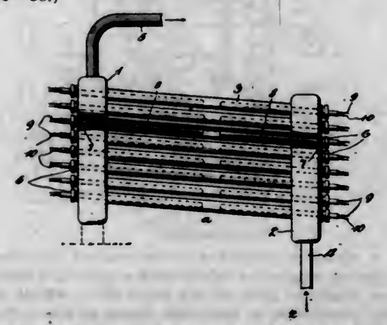
tom thereof, and means carried by the tubular member and operated by the bucket for operating said valve, said lateral extension having an air inlet in its upper side opened by the fall of water in the bucket upon outflow of water therefrom, through said tubular member.

1,684,962. BANJO HAND REST. JOHN LATERRA and FRANK JOY, Paterson, N. J. Filed Dec. 21, 1926. Serial No. 156,151. 2 Claims. (Cl. 84—328.)



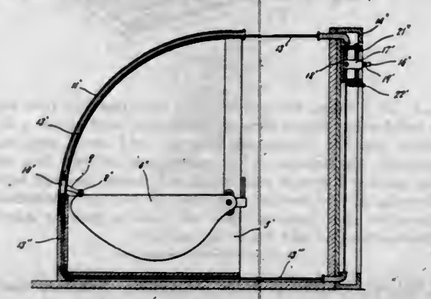
1. As a new product of manufacture, a banjo hand rest and string anchoring device comprising a pair of attaching bolts having retaining hooks at one end, retaining means for the opposite ends of said bolts, a connecting strip for said bolts, the intermediate portion of said strip being provided with string anchoring fingers, a pair of spaced retaining members connected with and extending forwardly from said strip, and a hand rest plate removably mounted upon said members.

1,684,963. HEATER FOR LIQUID-HEAT-TRANSMISSION SYSTEMS. DANIEL M. LUEHRS, Cleveland, Ohio. Filed Oct. 6, 1924. Serial No. 742,017. 2 Claims. (Cl. 219—38.)



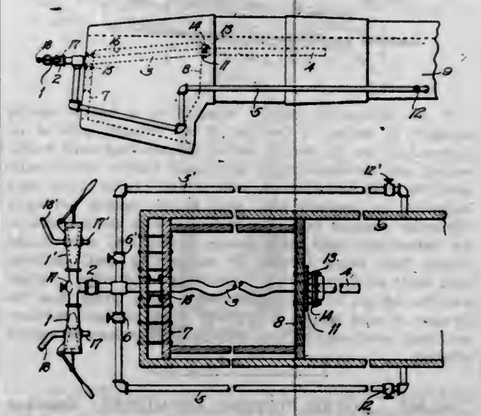
1. An oil heater comprising two opposing sets of superposed headers, tubes extending between and communicating with the interiors of the opposing headers, hand holes in the opposing headers in line with the tubes, plugs fitting in the hand holes and electric heating rods projecting into the tubes from their opposite ends, each rod supported in one of the plugs and extending through a header and part way, only, through a tube, said rods being spaced from the inner walls of the tubes.

1,684,964. VARIABLE CONDENSER. JAMES LYONS, Jr., New York, N. Y., assignor to self and Leo H. Schwabacher, trustees, New York, N. Y. Filed May 18, 1925. Serial No. 31,056. 27 Claims. (Cl. 175—41.5.)



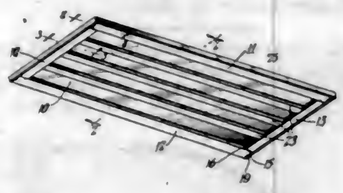
1. In variable condensers, the combination of a stationary element and an element movable relative thereto, flexible means for moving the movable element, and means sustained by the flexible means for indicating the extent of movement of the movable element.

1,684,965. FEED-WATER-HEATING SYSTEM. BENJAMIN F. MADISON and ELBERT C. KRUME, Council Bluffs, Iowa. Filed July 6, 1926. Serial No. 120,845. 3 Claims. (Cl. 122—414.)



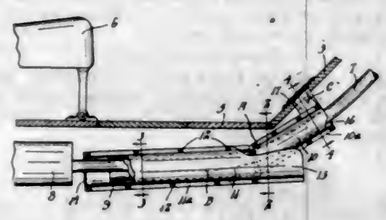
1. The combination with a locomotive boiler having a fire box, of a longitudinal supply pipe having a portion extending forwardly and upwardly through the fire box at a point beneath the crown sheet of the same and passing through the tube sheet into the boiler and extending forwardly in the barrel of the boiler to a point intermediate of the ends of the same, a pair of longitudinally disposed exteriorly arranged pipes located at opposite sides of the boiler and connected at their front ends to the boiler at the lower portion of the same and above the bottom thereof and extending horizontally to points adjacent the fire box and provided thereat with transversely disposed rear portions connected to the supply pipe in rear of the fire box, a pair of transversely disposed injectors connected to the supply pipe in rear of the said transverse portions of the exterior pipes, and independent means for controlling the flow of water through the supply pipe and the exterior pipes.

1,684,966. METAL TABLE. CORNELIUS C. O'CONOR, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Aug. 13, 1923. Serial No. 657,068. 6 Claims. (Cl. 45—31.)



1. In a table, the combination of a metallic face sheet, a reinforcing frame member inderlying said sheet, a deadening member interposed between said sheet and frame member, and means on the under side of said face sheet for uniting together said sheet and frame member beyond the edge of said deadening member to prevent separation of the sheet and frame member, and also to prevent sidewise displacement of said deadening member.

1,684,967. AUTOMOBILE HEATER. NELS A. OLUND, Cambridge, Minn. Filed June 19, 1926. Serial No. 117,164. 5 Claims. (Cl. 257—241.)



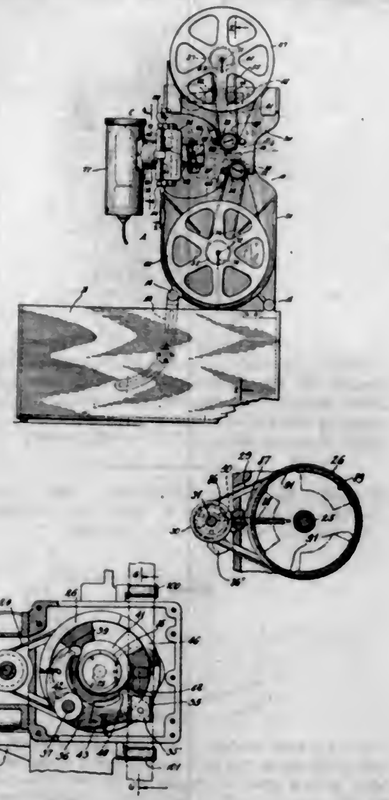
5. An automobile heater comprising a heater casing adapted to enclose a portion of the exhaust pipe of an automobile, an air intake casing surrounding said heater casing and communicating with said heater casing adjacent the rear end thereof, said intake casing being open adjacent its forward end, said heater casing having a discharge passage that communicates with the interior of an automobile body, said heater casing and said intake casing both being formed of cooperating shell sections, said shell sections having registering longitudinal flanges and the flanges of said heater casing being wider than the flanges of said intake casing and being clamped between said last mentioned flanges to hold said casings in spaced relation.

1,684,968. MOTION-PICTURE APPARATUS. FREEMAN H. OWENS, New York, N. Y. Filed Apr. 11, 1924. Serial No. 705,804. 14 Claims. (Cl. 88—18.4.)

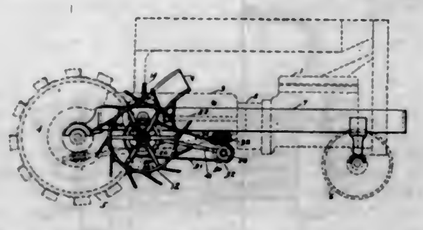
1. A motion picture apparatus comprising a frame, a shutter shaft journalled therein, and intermittent film moving mechanism operated from said shutter shaft, said mechanism including a film grip element, a cam fixed to said shutter shaft and a cam lever oscillatably mounted on said frame, the said lever carrying the film grip element and operated by said cam.

4. A portable motion picture apparatus comprising a casing, a motion picture machine pivotally carried by said casing for movement from horizontal encased to erect operating positions, and means for adjustably locking the machine on the casing operative to permit projection at an angle to the horizontal.

8. A motion picture apparatus comprising a frame, a shutter and shutter shaft journalled therein, a motor for directly driving said shutter, and mechanism for stopping said shutter in open or projection position when the said motor is stopped, the said mechanism comprising a shutter locking member, means for normally holding the said member in inoperative or unlocking position and means for operating the said member to shutter locking position when the said motor is stopped.

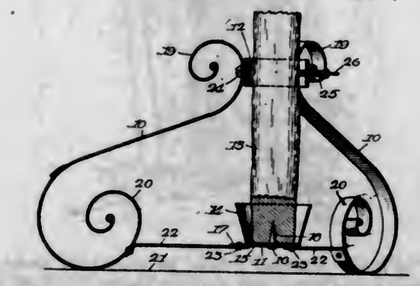


1,684,969. SECONDARY-TRACTOR-PROPELLING DEVICE. FRANK PRASZKEWIZ, Detroit, Mich. Filed July 27, 1925. Serial No. 46,263. 3 Claims. (Cl. 180—15.)



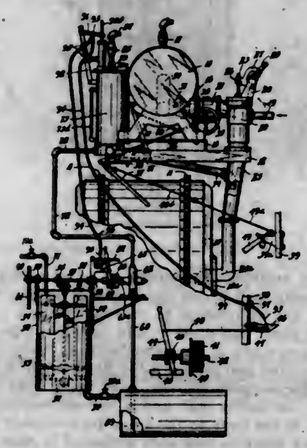
1. A secondary propelling device adapted for attaching to a tractor engine for substituting a pair of special propelling wheels in place of the heavy drive wheels of the tractor, comprising a rigid side frame attached to each side of the tractor body, an adjustable sliding bar movably mounted on each of said side frames positioned ahead of the rear drive wheels of the tractor, a special driving wheel mounted on the lower end of each of said sliding bars, a threaded lifting screw attached to the lower end of each of said slides and connected to the tractor frame by a threaded power gear mounted on said screw, geared means connected to said power gear for rotating same, said geared means being connected directly with the engine transmission and operated thereby, geared means attached to each of said wheels and connected to the tractor engine for propelling said wheels directly by power of the tractor engine.

1,684,970. CHRISTMAS-TREE STAND. HAROLD G. RICE, Chicago, Ill. Filed Sept. 17, 1926. Serial No. 136,040. 3 Claims. (Cl. 248—38.)



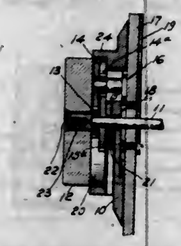
1. In a device for maintaining a Christmas tree in vertical position, the combination of a water cup provided with means for positioning the bottom of the tree against lateral movement and plurality of folding leg members having lower inner extensions hingedly connected to the periphery of said cup and having upper extensions for bracing an upper portion of said stem, said hinges comprising axially vertical pivots.

1,684,971. MEASURING APPARATUS FOR PAVING MACHINES. THORMAN W. ROSHOLT and HAROLD CEDERSTROM, Minneapolis, Minn., assignors to Thorman W. Rosholt Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 31, 1927. Serial No. 230,061. 15 Claims. (Cl. 88—73.)



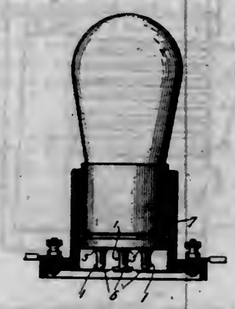
1. The combination with a concrete mixer comprising a mixing member, a water supply means and means for charging water and aggregate materials thereinto, of a control means for said last mentioned means, a supply means for a chemical solution, a measuring device for apportioning a definite quantity of said solution, means connected to said control means for actuating the same when said quantity of said solution has been apportioned, and means for discharging said quantity of the solution from said device into said member.

1,684,972. VARIOMETER DIAL. HARRY R. RUSSON, Akron, Ohio, assignor of one-half to William C. McCoy, Cleveland, Ohio. Filed Aug. 21, 1922. Serial No. 583,252. 14 Claims. (Cl. 74—7.)



1. An apparatus comprising a panel, a dial rotatably mounted thereon, a bracket mounted on said panel and extending through an aperture in said dial, an idler gear wheel mounted on said bracket, a gear wheel rigidly mounted on said dial and adapted to mesh with said idler gear, and a knob rotatably mounted on the dial and having a gear wheel adapted to mesh with said idler gear.

1,684,973. CONTACT-PROTECTING MEANS FOR VACUUM TUBES. STERLING G. SEARS, Brooklyn, N. Y., assignor, by mesne assignments, to Naylor Radio Corporation, New York, N. Y. Filed Sept. 12, 1925. Serial No. 55,939. 3 Claims. (Cl. 250—27.5.)



1. In a contact protecting means for vacuum tubes having pins of oxidizing metal, contact caps formed of spring metal and having contact surfaces coated with a non-oxidizing metal.

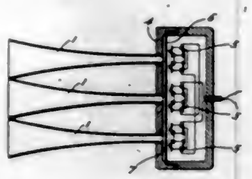
1,684,974. SPIDER FOR SUCKER RODS AND THE LIKE. ERNEST J. SHAFFER, Tulsa, Okla. Filed Aug. 28, 1926. Serial No. 132,227. 3 Claims. (Cl. 24—263.)



1. A device of the character set forth comprising a body having a bore, a pair of slips for engagement within said bore, a pair of tongs comprised of members that are piv-

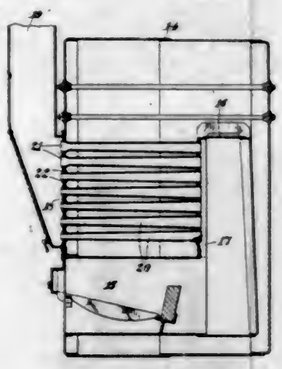
otally connected together intermediate their jaws and handles and to the jaws of which are connected the aforesaid slips, and a spring interposed between the slips and located laterally of the axis of the slips toward the pivotal connection between the members of the tongs.

1,684,975. SOUND-GENERATING DEVICE. JOSEPH SLEPIAN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1926. Serial No. 116,251. 7 Claims. (Cl. 181—27.)



1. In a sound-producing device, a plurality of exponentially curved horns having a combined mouth opening of an area comparable to the square of one half the wave-length of the lowest frequency it is desired to produce.

1,684,976. STEAM GENERATOR AND THE LIKE. JOHN TAIT, Port Chalmers, New Zealand. Filed May 3, 1927, Serial No. 188,572, and in Great Britain June 4, 1926. 4 Claims. (Cl. 122—149.)



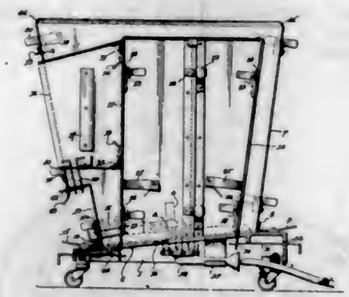
1. In a multi-tubular flame-tube boiler the combination of tapered flame-tubes which at their smaller ends are provided with enlargements the diameter of which is greater than that of the larger ends of the flame-tubes and a tube-plate into which the said enlargements are fitted, substantially as and for the purpose set forth.

1,684,977. LINK STRAP. CHARLES R. TOAST, Centerdale, R. I., assignor to The Hadley Company, Providence, R. I., a Corporation of Rhode Island. Filed June 9, 1927. Serial No. 197,658. 6 Claims. (Cl. 59—80.)



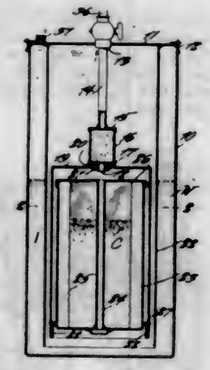
3. A link strap comprising outer links having transverse inturned flanges at their juxtaposed ends, inner links having end flanges hooking over said flanges to interconnect the outer links, the outer links substantially meeting throughout substantially the width of the strap and the inner links being substantially concealed by the outer links when viewed from the outside of the strap.

1,684,978. MOLD. JOSEPH P. URBAN, Detroit, Mich., assignor to Detroit Concrete Receptacle Company, Detroit, Mich., a Corporation of Michigan. Filed May 14, 1927. Serial No. 191,490. 7 Claims. (Cl. 25—130.)



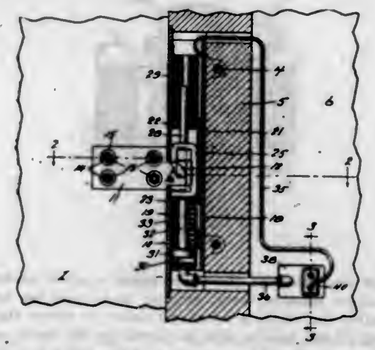
2. A mold comprising a base, an outer wall mounted thereon, a core within said wall and spaced therefrom, an outlet-forming core between said first named core and outer wall, said first named core having apertures leading to said second core, and a heating element effective in said first core.

1,684,979. ACETYLENE-GAS GENERATOR. AUGUST VALENTOUR, McDonald, Pa. Filed May 10, 1927. Serial No. 190,290. 4 Claims. (Cl. 48—19.)



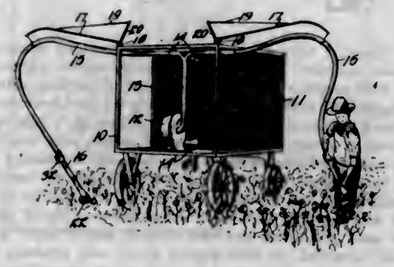
1. In an acetylene generator, an outer casing having a cover, a shell fixed to the cover and depending within the casing in spaced relation to its side walls, a valve body having its lower end fixed in said casing, a pipe depending from the lower end of the valve body, an inner bell spaced within the shell and having a top fixed to the lower end of the pipe for support thereby, said valve body having an inlet port, an outlet port and a by-pass leading from the lower end of the body to the space between said ports, and a three way valve in said body arranged to close the outlet port, place both the inlet port and by-pass in communication with the outlet port and the by-pass alone in communication with the outlet port with the outlet port selectively, and a carbide holder within the inner bell and having an opening in its lower wall for the admission of water and an outlet in its top wall for the passage of generated gas into the inner bell.

1,684,980. CAR-DOOR LOCK. JOHN P. WARD, Cleveland, and ROBERT E. HYDE, Cleveland Heights, Ohio, assignors of one-third to Harry J. Green, Cleveland, Ohio. Filed Apr. 4, 1927. Serial No. 180,657. 7 Claims. (Cl. 70—50.)



1. A lock of the class set forth comprising a casing having an opening in its side, a locking head of material length having a sliding fit within the casing and restricted thereby to a vertical movement, a latch member adapted to be projected through said opening into the casing for interlocking engagement with the locking head, a stem on said locking head, and a solenoid whose core is constituted of said stem mounted within the casing.

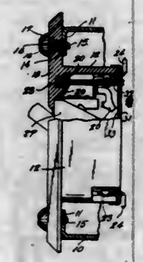
1,684,981. COTTON PICKER. PAUL H. WHITE, Indianapolis, Ind. Filed Apr. 5, 1926. Serial No. 99,919. 7 Claims. (Cl. 56—32.)



1. A cotton picking device comprising a head, parallel shafts mounted within the head, a set of thin flexible disks on each shaft, a plurality of rigid disks on each shaft alternating with the flexible disks, the said flexible disks on one shaft having their peripheral edges in overlapping engagement with the peripheral edges of the said rigid disks on the other shaft, means for rotating the said parallel shafts in opposite directions, and means for creating a suction through the spaces between said disks, substantially as set forth.

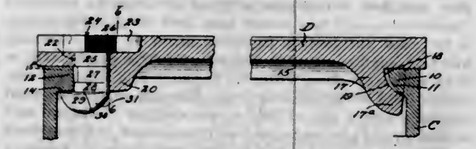
1,684,982. ELECTRIC SWITCH. TONJES A. BOTH, Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 19, 1924. Serial No. 756,902. 11 Claims. (Cl. 200—168.)

1. In combination, a cover plate of molded insulating material adapted to cover the open side of a wall outlet box, a box portion comprising walls of insulating material extending rearwardly from the back of said plate and molded in one piece with said cover plate on the rear side thereof,



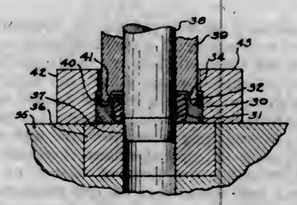
switch mechanism mounted in said box, and switch operating means projecting through said plate to the front thereof.

1,684,983. BOX OR CASING COVER WITH FASTENER. HORACE W. CLARK, Mattoon, Ill. Filed Nov. 26, 1927. Serial No. 235,931. 9 Claims. (Cl. 137—13.)



1. A cover for a protective casing, the cover having an upstanding neck formed at one side with an inwardly projecting lug and at its other side with a ledge, a lid fitting upon the neck and having a recessed portion defining a hook engaging upon said lug and cooperating therewith to constitute a hinge connection, and a bolt rotatably engaged through the lid and having a hook at its lower end engageable beneath said ledge, an intermediate portion of the bolt being formed with a cam engageable with said ledge for the purpose of cleaning contact surfaces in its operation.

1,684,984. SELF-ALIGNING BEARING STRUCTURE AND METHOD OF MAKING SAME. CARL CLAUS, Plainfield, N. J., assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J., a Corporation of New Jersey. Filed May 19, 1926. Serial No. 110,117. 4 Claims. (Cl. 29—149.5.)

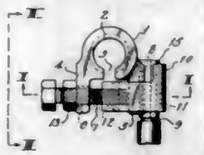


3. The method of producing an annular bearing-member having a cylindrical bore and a transversely curved periphery, which consists in die pressing the bearing material into annular form with a convexed periphery having a flat zone extending around it, and then again die-pressing the material to eliminate said flat zone and form the periphery with a spherical curve struck from the center of the annular form by oppositely disposed and reciprocating dies.

4. In a self-aligning bearing structure, an annular bearing-member having a cylindrical bore and a transversely

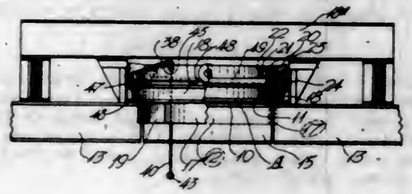
arched periphery, said member being formed from a mixture of different finely divided metals compressed into a firm consolidated mass under pressure exerted from opposite ends of the member.

1,684,985. BATTERY TERMINAL AND CABLE CLAMP. SAMUEL R. GARNER, Sr., Cleveland, Ohio. Filed Sept. 4, 1925. Serial No. 54,500. 3 Claims. (Cl. 173—259.)



1. A battery terminal and cable clamp comprising a split sleeve having arms extending outwardly, one on each side of the split, one of said arms being adapted to form an abutment for an electrical conductor, the other of said arms having an unthreaded aperture adapted to loosely receive the shank of a clamping screw, a cable clamp loosely fitting over said first named arm adapted to clamp an electrical conductor to said first named arm, said cable clamp having a threaded aperture, a clamping screw in said threaded aperture adapted to abut against said first named arm to draw said cable clamp toward it to clamp said electrical conductor, said screw passing freely through said unthreaded aperture, and a nut on said screw adapted to engage said second named arm and co-act with said screw and said cable clamp to draw said arms toward each other to contract said sleeve.

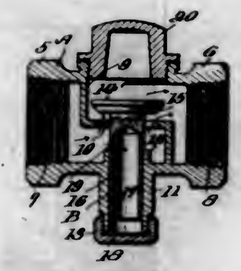
1,684,986. OVERHEAD RUNWAY TURNTABLE. MATTHEW CHALMERS GILLIES, Walkerville, Ontario, Canada. Filed Feb. 2, 1927. Serial No. 165,279½. 5 Claims. (Cl. 104—99.)



1. In an overhead runway system, the combination with runway joists intersecting at a common point and a supporting frame for the said joists of a turntable adapted to rotate about the said common point, the said turntable comprising a circular plate; a channel formed into a circular ring with its flanges turned inwardly fastened to the said plates; a tapered ring mounted on the said supporting frame; a plurality of tapered rollers revolubly mounted on the said turntable and adapted to roll on the said tapered ring; a joist mounted on the said turntable adapted to be aligned with one of the said runway joists; and means for releasably locking the said turntable in any desired alignment.

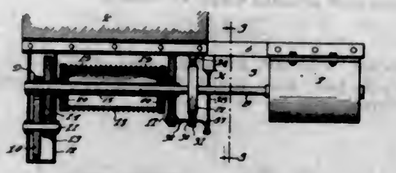
1,684,987. CHECK VALVE. GEORGE EDGAR HAZARD, Rochester, N. Y., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Filed Nov. 3, 1927. Serial No. 230,911. 2 Claims. (Cl. 251—128.)

1. A valve constructed as hereinafter defined comprising a housing that has an intermediate longitudinally extending wall with a valve seat, a valve seating on the said wall, a cylindrical dash pot extending laterally from the said housing and having a closed outer end, and a hollow stem secured to the said valve and movably fitting within the said dash pot, said hollow member having an opening which is normally closed when the valve is on



its seat and whereby the valve opens against suction in the hollow member, said opening being also so located that after the valve is open and before it closes the said opening in the hollow stem is closed by the inner end of the dash pot whereby hammering of the valve is obviated.

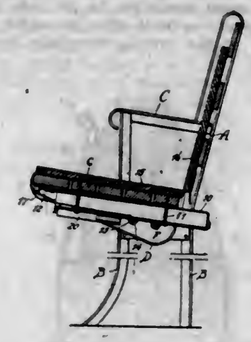
1,684,988. HOIST. CLAYTON H. HOMAN, Cleveland, Ohio, assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Sept. 20, 1923. Serial No. 663,731. 1 Claim. (Cl. 254—186.)



A hoisting unit of the character described comprising a base member, a reversible electric motor carried by said base member and having a shaft projecting outwardly therefrom, said shaft having a pinion on its outer end, a sleeve surrounding said shaft and having a gear keyed thereon, a drum surrounding said sleeve and non-rotatably connected therewith, a gear housing depending from said base member and forming a bearing for the outer end of said shaft and sleeve, a pinion shaft journaled in said gear housing and having a gear thereon which meshes with said pinion on the end of said motor shaft and a pinion mounted on said pinion shaft and meshing with the gear on said sleeve, a bearing block depending from said base member and forming a bearing for the opposite end of said sleeve and through which said motor shaft extends, a brake device depending from said base member and engaging said motor shaft, said brake device being arranged to be mechanically set and electrically released, electromagnetic means for releasing said brake device when the motor is running in either direction and remote control means for controlling the operation of said motor and brake devices.

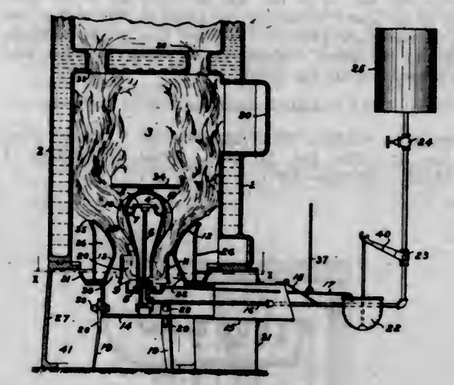
1,684,989. CHAIR CUSHION. JACQUE E. HORN, New York, N. Y., assignor, by direct and mesne assignments, to Eze Cushion Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 15, 1927. Serial No. 219,581. 5 Claims. (Cl. 155—182.)

1. The combination with a chair, of a box secured flatwise to the under side of the seat of the chair and having an opening at its front end, a pair of cushions hinged together, and a flexible band secured within the box and attached to one of the cushions and of sufficient length to permit the placing of the cushions on the back



and seat of the chair with the band extending about the front edge of the chair seat and the insertion of the cushions in folded condition in the box.

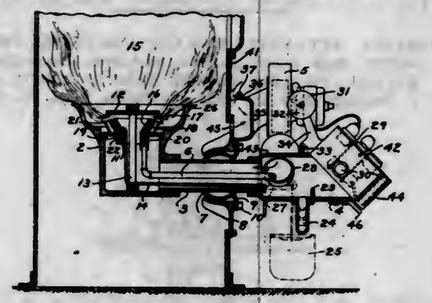
1,684,990. OIL BURNER. BRUCE K. INGLIS, Milwaukee, Wis., assignor of one-half to Clement W. Inglis, Milwaukee, Wis. Filed Aug. 15, 1924. Serial No. 732,170. 3 Claims. (Cl. 158—64.)



1. In an oil burner, a casing forming an imperforate dome having a constricted open lower end, means forming an annular trough exposed to the upper enlarged interior of said dome, means for feeding liquid fuel into said trough, an inner wall forming an annular passage surrounding the lower open end of said casing and directed upwardly toward the outer surface of said dome, an outer wall surrounding said inner wall and forming an annular passage surrounding said casing and having a constriction adjacent to the upper end of said inner wall, and means for conducting air to the open lower ends of said walls.

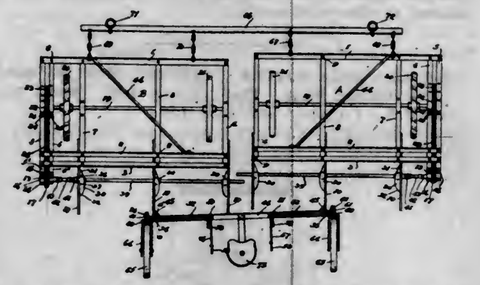
1,684,991. OIL BURNER. BRUCE K. INGLIS, Milwaukee, Wis., assignor of one-half to Clement W. Inglis, Milwaukee, Wis. Filed June 14, 1926. Serial No. 115,764. 4 Claims. (Cl. 158—92.)

1. In combination, a burner comprising a fuel distributing cup, a member forming a conduit, said cup being supported upon an end of said member, and a universally adjustable support for said member, said support being formed for attachment to a furnace wall and being



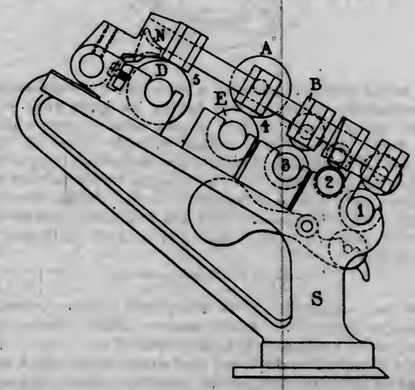
adjustable to enable both lateral and longitudinal shifting of said cup within the combustion chamber of the supporting furnace.

1,684,992. ROTARY ROD WEEDER. NELSON JACKSON, Saskatoon, Saskatchewan, Canada, assignor of one-fourth to Arthur Duncan, Saskatoon, Canada. Filed Nov. 5, 1926. Serial No. 146,466. 5 Claims. (Cl. 97—42.)



1. A multi-section rod weeder having the rod of each section independently driven and the frames thereof flexibly connected and spaced and each separately supported by three wheels arranged in a substantially V-shaped formation.

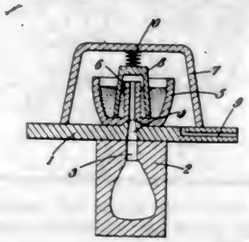
1,684,993. DRAWING OR DRAFTING MECHANISM. JAMES JOLLY, Bolton, England. Filed July 18, 1927. Serial No. 206,694. 4 Claims. (Cl. 19—130.)



1. The combination with a three-roller draft frame, of two additional lines of rollers added thereto and in such a manner that the material being drafted is passed to

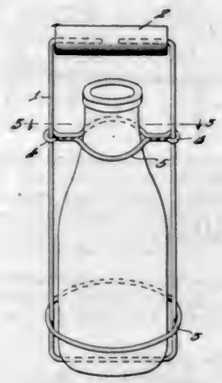
and fro, over and around these additional lines of rollers, the rollers in one of the additional lines being provided with grooves of varying diameters.

1,684,994. APPARATUS FOR CASTING UNDER PRESSURE. ERIK JORGEN-JENSEN, Edgbaston, Birmingham, England. Filed Nov. 21, 1927, Serial No. 234,772, and in Denmark Mar. 22, 1927. 5 Claims. (Cl. 22—68.)



1. Apparatus for casting under pressure, comprising a crucible adapted to contain molten metal, an outlet from said crucible, means for causing the molten metal to flow through said outlet by combined air pressure and syphonic action, and a compressed air bell surrounding said crucible suchwise that the walls of the crucible are not exposed to differential pressure.

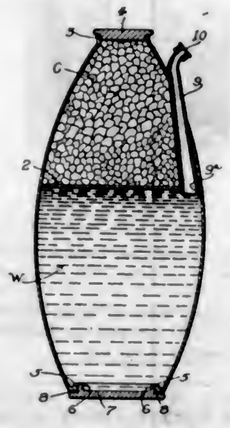
1,684,995. MILK-BOTTLE CARRIER. ROY W. KENNARD, Harper, Wash. Filed July 18, 1927. Serial No. 206,710. 1 Claim. (Cl. 215—100.)



A bottle holder comprising a wire frame of substantially rectangular formation and having its upper arms split to provide a handle portion, a ring member surrounding the frame adjacent the bottom thereof, a second ring member of a less area than the first mentioned ring member having arm extensions which merge into eyes that are slidable upon the side members of the frame, and by virtue if such engagement with the said side members the said clamp tends to hold the split ends of the frame in parallelism.

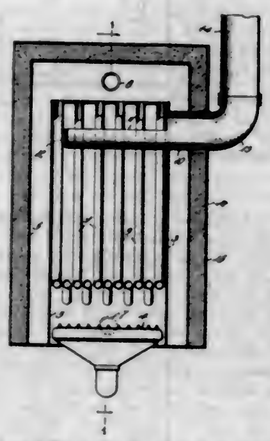
1,684,996. WATER AND CARBIDE CAN. ANDREW KOZAK, Lilly, Pa. Filed May 25, 1926. Serial No. 111,604. 1 Claim. (Cl. 220—20.)

In a combined carbide can and water receptacle, a container of cylindrical formation tapering toward each end, a cross-partition intermediate the ends thereof dividing the same into an upper carbide can and a lower water receptacle, the opposite ends of the container having filling openings, a disk stopper threaded into each opening, a water tight connection between the disk stopper and water receptacle, with the peripheral edge of the last named stopper extending outwardly of the side wall of the receptacle and forming a base seat for the receptacle, and a pouring spout supported by the side wall of the container and partition wall with its major length disposed inwardly of the carbide receptacle and with the



outlet end of the spout terminating adjacent the filling opening for the carbide can and exteriorly thereof, that part of the spout within the carbide can lying juxtaposed to the side wall of the can, and the outer side of the inner end of the spout contacting the adjacent side wall of the water receptacle adjacent the lower face of the partition whereby the entire contents of the water receptacle may be drawn through the spout.

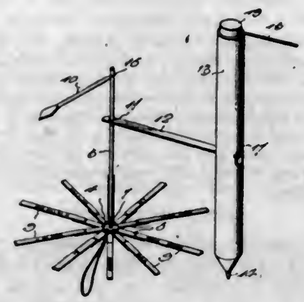
1,684,997. WATER HEATER. WALTER V. KRAFT, Clinton, Ill. Filed Feb. 17, 1927. Serial No. 169,003. 1 Claim. (Cl. 122—166.)



In a water heater, a chamber to contain flame-producing means, a water-containing shell spaced around said chamber, water tubes in said chamber communicating with the interior of said shell, said tubes having vertical upper portions disposed in two spaced parallel rows within the chamber, the lower portions of one row of tubes being curved outwardly in one direction toward one side of said

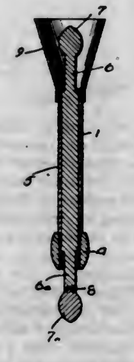
chamber and the lower portions of the other row being curved outwardly in the opposite direction from and between the curved lower portions of the first mentioned row, and an outlet pipe for the products of combustion extending horizontally across the upper end of said chamber and disposed between said rows of vertical tube portions, said pipe having an imperforate lower portion to deflect the products of combustion outwardly against said vertical tube portions, the upper portion of said pipe having means for admitting the products of combustion.

1,684,998. FORTUNE-TELLING DEVICE. NIKITAS LAPPAS, Peabody, Mass. Filed Dec. 5, 1927. Serial No. 237,840. 4 Claims. (Cl. 273—161.)



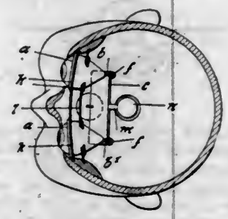
1. A fortune telling device comprising a lower bearing, a vertical shaft resting on said bearing, a pointer projecting laterally from said shaft, spaced legends co-operable with said pointer, and a manually movable upper bearing for said shaft operable to tilt the latter in any direction to cause said pointer to act by gravity and turn the shaft.

1,684,999. MEDICINE ADMINISTERING DEVICE. SYDNEY LEVY, Jr., Suva, Fiji Islands. Filed Nov. 27, 1926. Serial No. 151,186. 5 Claims. (Cl. 128—265.)



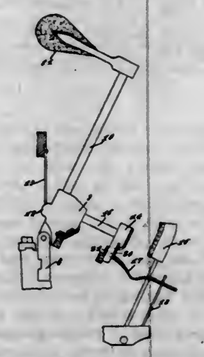
1. A medical appliance of the class described, comprising a tube, a piston slidably arranged therein and having a reduced part adjacent one end which forms a chamber with the walls of the tube when the piston is in retracted position, and a hopper detachably connected with the tube for enabling material to be drawn into said chamber when the piston is retracted after being projected.

1,685,000. DEVICE FOR MOVING THE EYES OF DOLLS. OSKAR RESCH, Neustadt, near Coburg, Germany. Filed Mar. 16, 1927, Serial No. 175,759½, and in Germany Dec. 20, 1926. 1 Claim. (Cl. 46—40.)



A device for moving the eyes of dolls in all directions, comprising in combination eye balls having horizontal pins bent to form vertical projections; an oscillating bridge member consisting of two parts adapted to slide in each other; overlapping projections provided on the lower and the upper edge of one of the said two parts, beneath which the other is slidably received; loops arranged on the one end of each of the said two parts and engaged with the said vertical projections; two guiding blades extending rearwardly from the front wall of the doll head and provided with eye apertures aligned with the eye sockets; eye balls mounted movably in said apertures and sockets; vaulted rims provided on the peripheries of said apertures register with the roundness of the eye balls and weights arranged on said bridge member.

1,685,001. PIANO-BRIDLE-STRAP FASTENER. THOMAS JEFFERSON MALCOLM, Natchez, Miss. Filed Mar. 21, 1925. Serial No. 17,297. 1 Claim. (Cl. 84—24.3.)



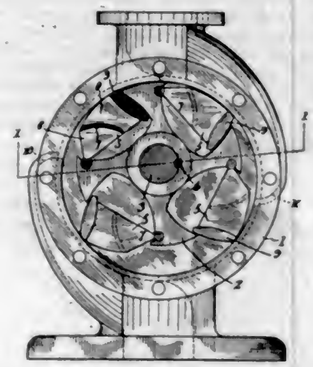
The combination with the hammer check of a piano action, said check formed with an opening having its wall tapered from end to end, of a removable bridle strap having its rear terminal portion extending through and projecting from said opening, said strap having a part of its rear terminal portion seating directly upon the lower portion of the wall of said opening, and a tapered, one-piece, solid, compressible plug extending through and projecting forwardly and rearwardly of said opening, and having the lower part of its periphery secured to the upper face of said rear terminal portion, said rear terminal portion having its free end flush with the reduced end of said plug, and said plug wedging the rear terminal portion of said strap against the lower portion of the wall of said opening and further wedging against the remaining part of the wall of said opening whereby the strap will be secured to the check.

1,685,002. WEATHERPROOF HINGE. VINCENT J. MATRANGA, Elizabeth, N. J. Filed Sept. 29, 1927. Serial No. 222,923. 5 Claims. (Cl. 16—135.)



1. A weatherproof construction comprising a pair of cooperating members so formed as to provide a pintle roll, and channel portions which serve to cover said pintle roll; and a weather strip on one member engageable with the other member to provide a tight joint between the members at the outside line of separation.

1,685,003. BUCKET FOR ROTARY PUMPS. WILLIAM W. MCELRATH, Louisville, Ky. Filed Nov. 25, 1924. Serial No. 752,257. 1 Claim. (Cl. 103—140.)

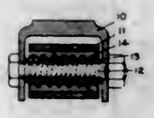


In a rotary pump, a stationary casing, a rotatable member mounted in the casing and having peripheral pockets therein opening toward the wall of the casing, and a bucket hinged at one side in each of said pockets, each of said buckets comprising a pair of side walls provided intermediate their ends with a curved loading blade extending generally in the direction toward the center of the rotary member and having between said side walls and at the outer ends thereof a follower blade spaced from the loading blade and having its inner surface curved in divergent relation to the curvature of the loading blade, said loading blade providing an intake opening at its inner side and an outer opening between the loading and following blades, said following blade adapted to receive impact of fluid in the outer opening and adapted for contact with the peripheral wall of the casing.

1,685,004. METHOD FOR INCREASING THE USEFULNESS OF FODDER AND FOOD. EUGEN MISLIN, Prague-Vrsovice, Czechoslovakia, assignor to Joseph Franz Daubek and Georg Daubek, Brnence, Czechoslovakia. Filed Apr. 7, 1925. Serial No. 21,421. 3 Claims. (Cl. 99—11.)

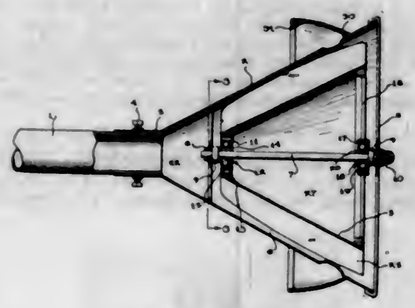
3. A method for increasing the nutrient value of fodder and foodstuffs consisting in simultaneously cultivating various species of yeasts in common with bacteria on pentosans without the addition of hexoses, allowing the resulting mass to act on the fodder and foodstuffs, and gradually heating the said mass and fodder and foodstuffs to about 50 degrees Celsius.

1,685,005. ATTACHMENT OF MOTOR-VEHICLE ROAD SPRINGS. DOUGLAS ROBERTSON, Nuriootpa, South Australia, Australia. Original application filed Jan. 6, 1926, Serial No. 79,621. Divided and this application filed May 6, 1927. Serial No. 189,340. 2 Claims. (Cl. 267—54.)



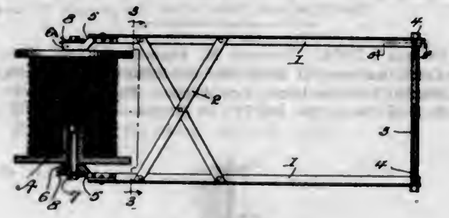
1. In an attachment for the road-spring of a motor vehicle, the combination with a hinge bolt, of a bush encircling the bolt and fitted to said bolt, a second bush cylindrical in shape and adapted to receive the first-mentioned bush, said bushes having spiral threads, the threads of the first-mentioned bush being complementary to that of the second-mentioned bush, and an eye receiving the second-mentioned bush and holding said bush in position on the first-mentioned bush.

1,685,006. ENGINE EXHAUST. GEORGE W. SCHULTZ, Bowers, Pa. Filed Nov. 10, 1925. Serial No. 68,105. 7 Claims. (Cl. 137—160.)



1. A device for use with engine exhausts comprising an outer casing having a small end connectible with the engine exhaust and enlarging from its small end to a large open end providing an outlet, an inner casing smaller than the outer casing and corresponding in form thereto, means for mounting the inner casing for free rotary movement within and in spaced relation to the outer casing, said inner casing co-acting with the outer casing to define an expansion chamber gradually enlarging to the outlet chamber, and exhaust gas operable vanes carried by the inner casing and extending spirally thereof and operating within the expansion chamber, said vanes being of slight cross section and of a width to extend from the outer periphery of the inner casing to the inner periphery of the outer casing and of a length to extend from one end of the inner casing to the other, the vanes being spaced a substantial distance from each other and occupying only a small portion of the total area of the exhaust chamber, whereby they serve to set up a suction in the expansion chamber and to whirl the exhaust gases around in the enlarging expansion chamber to secure gradual and thorough expansion of the same prior to their discharge to the atmosphere.

1,685,007. WIRE REEL. ALBERT SCHWINDENHAMMER, Peoria, Ill. Filed July 16, 1926. Serial No. 122,941. 1 Claim. (Cl. 242—94.)

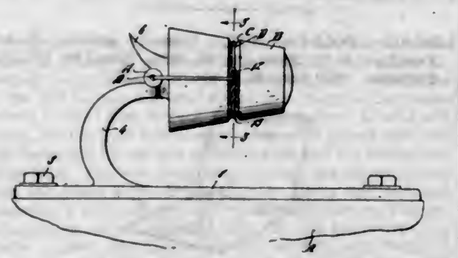


A device of the class described comprising a pair of side bars, a handle connecting one end of each bar with an end of the opposite bar, a casting fastened to the other end of each bar and having an inwardly extending offset portion having a hole therein, said castings forming extensions of the side bars, a shaft passing through the holes in the two castings, the length of the shaft being less than the width between the outer sides of the side bars, pins passing through the ends if the shaft for holding the shaft in place, a reel rotatably mounted on a shaft and braces connecting the side bars together.

1,685,008. PROCESS OF TREATING SLACK WAX. BENJAMIN L. SOUTHER, Pittsburgh, and WILLIAM A. GRUSE, Wilkinsburg, Pa., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Feb. 17, 1926. Serial No. 88,906. 4 Claims. (Cl. 196—20.)

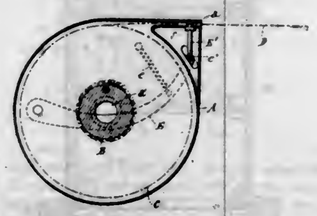
1. In the treatment of slack wax, the process which comprises, comminuting a magma of solid slack wax containing oil to a fluent consistency, and mechanically separating the liquid and solids of the comminuted material.

1,685,009. WIRE CLAMP AND INSULATOR HOLDER. SEABORN JONES SPEIR, Austin, Tex., assignor of one-half to Ferdinand W. Menking, Fayetteville, Tex. Filed July 2, 1927. Serial No. 203,282. 5 Claims. (Cl. 173—321.)



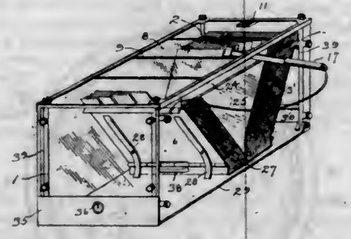
1. A device of the character described comprising a curved arm, means for securing said arm to a supporting means, a threaded shank formed with said arm, a projection extending from said shank and providing a recess at the juncture thereof with said arm, an insulator threaded on said shank and having a circumferential groove therein, means arranged in said groove and extending rearwardly of said insulator, means secured to the rearward portion of said means and received in said recess to cooperate with the first mentioned means to prevent longitudinal movement of said insulator, and means for securing a conductor to said first mentioned means and in said groove.

1,685,010. SPOOL CASE FOR CAMERAS AND FOR CINEMATOGRAPH AND SIMILAR PROJECTION APPARATUS. JOHN EDWARD THORNTON, West Hampstead, London, England. Filed Feb. 1, 1927, Serial No. 165,231, and in Great Britain Dec. 11, 1925. 5 Claims. (Cl. 242—71.)



1. A spool case and film carrier for continuous ribbons for use in projectors for the exhibition of pictures or in cameras, comprising a casing to contain a spool of film having a blank leader strip affixed to the free end of the film, said casing having means for locking the blank leader strip against withdrawal from the casing, said casing also having means operable by the insertion of the spoolcase into a projector or camera for releasing said leader strip locking means.

1,685,011. FILING CABINET. RODNEY J. WOOD, Dayton, Ohio. Filed Feb. 15, 1924. Serial No. 698,057. 31 Claims. (Cl. 129—16.)



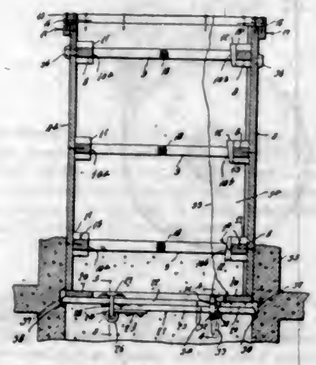
1. In a filing device, a container for a series of vertically positioned data sheets, a cover therefor, having therein a slot extending in parallel relation with the data sheets, means for effecting the separation of the series of sheets in proximity to said slot to permit the deposit of an additional data sheet through said slot in predetermined relation with previously filed data sheets.

14. In a protected file for a series of data sheets, a housing having a transparent panel through which the data sheets may be observed and an opening, means operable from the exterior of the housing through said opening for separating the data sheets for observation, a follower member for said data sheets, and a pull cord attached to the follower, for returning the separated data sheets preparatory to the next selective operation.

21. In a protected file a series of data sheets, a housing comprising transparent top, side and end walls, and a bottom section in relation with which the housing unit comprising the top side and end walls is relatively movable.

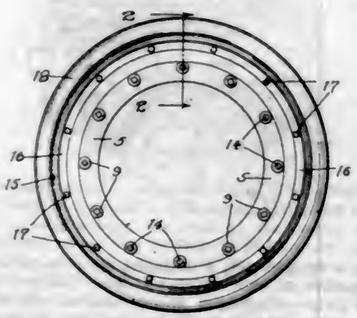
29. In a file for a series of data sheets, a mounting for the data sheets including an oscillatory follower, a retainer rod transfixing the series of sheets and a locking member for said rod in the path of disengagement of which the oscillatory follower normally extends to prevent the disengagement of the locking member until the follower is oscillated to an abnormal position.

1,685,012. COLLAPSIBLE AND PORTABLE CORE FORM. HARVEY J. YAGER, Seattle, Wash. Filed Apr. 29, 1926, Serial No. 105,431. Renewed Feb. 23, 1928. 5 Claims. (Cl. 25—128.)



1. A core form comprising separable sides, wale pieces carried by certain of said sides, other wale pieces carried by the other sides and having recesses for the reception of the ends of the first named wale pieces, and wedges positioned between certain ends of the wale pieces.

1,685,013. AUTOMOBILE TIRE. PETER ABRECHCINSKI, Buffalo, N. Y. Filed Aug. 18, 1927. Serial No. 213,901. 3 Claims. (Cl. 152—8.)



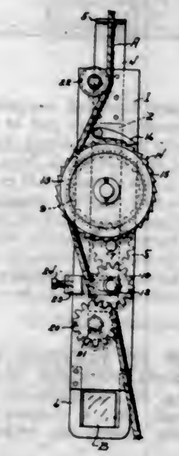
1. In an automobile tire of the type described, a rim band, side rim members mounted on the band, a flexible band at the outer edges of the rim members, a cushion tire carried by the flexible band, and means for spacing the rim members to transversely stretch the flexible band.

1,685,014. AIRCRAFT. ABRAM A. ANDERSON, New York, N. Y. Filed Apr. 14, 1927. Serial No. 183,782. 1 Claim. (Cl. 244—12.)



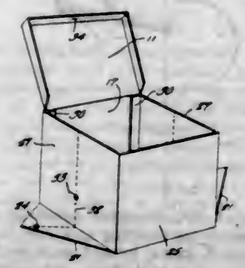
In combination with an airplane, of extensions on the ends of the airplane, means for moving the extensions inwardly, ports depending from the extensions, rods longitudinally positioned under the wings, collars mounted on the rods, members connecting the collars with the outer portions of the extensions and engaging the posts at their intermediate portions, and means for limiting the outward movement of the collars.

1,685,015. JACK. FRANCIS M. AYCOCK, Soldiers Home, Calif., assignor of forty-nine one-hundredths to James Marsh, Soldiers Home, Los Angeles, Calif. Filed Oct. 3, 1927. Serial No. 223,767. 3 Claims. (Cl. 254—176.)



1. A scaffold jack of the character described comprising a body plate having a right angle bent upper end formed with an opening, a frame secured to said body plate, shafts journaled in said body plate and frame, a crank handle secured to one of said shafts, gears secured to said shafts and being arranged in constant mesh, a pulley secured to one of said shafts and receiving a cable of the scaffold, ratchet means included in said pulley, a guide pulley receiving said cable and together with the opening of the upper end of the body plate provide guiding means for said cable, and cable tensioning means carried by said body plate.

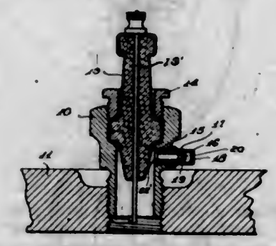
1,685,016. FOLDING BOX. ISABELLE BRENDA BLAKE, New York, N. Y. Filed Apr. 28, 1926. Serial No. 105,251. 2 Claims. (Cl. 229—41.)



1. A collapsible refoldable box comprising a body constituting outwardly foldable side walls, an outwardly foldable bottom wall, front and rear walls movable toward each other upon the outward foding of said side and bottom walls whereby said body may be collapsed to a flat condition, pointed flaps co-extensive with said bottom wall and foldable against said side walls when in a set-up condition, a fold line extending from the point of one flap across said bottom wall to the point of the other flap, a cover hinged

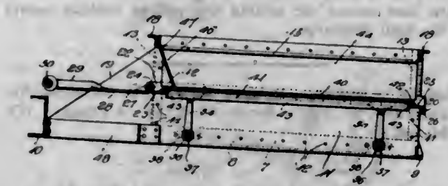
to said rear wall for closing the open top of said body, said side walls and flaps having registering openings therein, and means passing through said registering openings and over said cover for holding said body in a set-up position and for keeping said cover down over said body.

1,685,017. VALVED SPARK PLUG. JOHN G. BOWMAN, Kansas City, Mo., assignor of one-half to William C. Haseltine, Kansas City, Mo. Filed July 25, 1927. Serial No. 208,205. 3 Claims. (Cl. 123—169.)



1. In a structure of the character set forth, a cylindrical valve case having a closed end, an open end and a lateral port spaced from said closed end, a valve of similar form snugly slidable in the case having its closed end next the closed end of the case, means to limit movement of the valve toward the open end of the case, said valve having a lateral port constructed and arranged to communicate with the port of the case when adjacent the outer limit of its movement in the case.

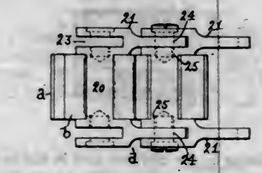
1,685,018. SCREENING MACHINE. JOHN OSCAR BOWMASTER, Orbisonia, Pa. Filed Nov. 24, 1926. Serial No. 150,479. 2 Claims. (Cl. 209—363.)



1. A screening machine comprising a rectangular base frame, a pair of parallel vertically disposed side plates extending longitudinally of and secured at their lower edges to the side bars of said base frame, a rectangular top frame having its side bars secured to the upper edges of said side plates, said bottom frame being of greater length than the top frame and at one end projecting beyond the latter, longitudinally disposed aggregate-guiding plates connected with the upper portions of said side plates and declining inwardly, a similarly declined transversely disposed aggregate-guiding plate connected with the end bar of the top frame nearest said projecting end of the base frame, a screen movably mounted between said side plates under said aggregate guiding plates, and vibrating means for said frame including a shaft mounted on said projecting end of the base frame.

1,685,019. GEAR CHAIN. EDWARD I. BRADDOCK, Cleveland, Ohio; Robert H. Montgomery executor of said Edward I. Braddock, deceased. Original application filed May 22, 1920, Serial No. 383,460. Divided and this application filed June 29, 1923. Serial No. 648,489. 1 Claim. (Cl. 74—32.)

As an improved article of manufacture, a gear chain composed of links having solid teeth and provided with arms extended from the opposite sides of said teeth and rigidly secured thereto and provided at their front end with offset portions forming slots with the end of said solid teeth, and having the rear ends of the arms of one link extended into said slots in the arms of an adjacent link, pivot pins connecting adjacent links substantially on the pitch line of the



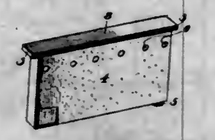
tooth of said adjacent link and having smooth portions extended through the offset portions of the arms of one link and thrugh the rear ends of the arms of the adjacent link and upon which said links turn.

1,685,020. LINGERIE CLASP. EMMA BRYAN BREEN, Houston, Tex. Filed Nov. 9, 1927. Serial No. 232,117. 1 Claim. (Cl. 24—73.)



A lingerie clasp comprising a body portion formed of a single strip of material whose ends are arched over the body and merge into rounded portions which provide barrels, one of said barrels being centrally notched, a pin received in the notch, said pin having a lateral trunnion which is journaled in the said barrel, the second barrel having a transverse opening on the inner face thereof, an angle passage communicating with said opening and the upper wall at the terminal of the said passage being formed with a notch and the pin being of a length whereby its pointed end will be received through the opening and through the passage and rest in the notch.

1,685,021. HONEY RICK. SAMUEL G. BROYLES, Battle Mountain, Nev. Filed May 13, 1927. Serial No. 191,138. 9 Claims. (Cl. 6—10.)

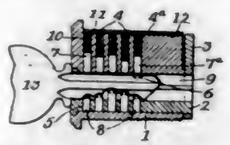


6. A honey depositing rick for bee-hive supers comprising a container having a honey drain opening in its base provided with a closure member, and having a plurality of inwardly extending cell-like tubes inserted adjacent to its top and having their inner ends closed and with honey-draining slots in their bottoms at such ends.

1,685,022. PIN-TUMBLER LOCK. GEORGE E. CLEAVER, Reading, Pa., assignor to Penn Hardware Company, Inc., Reading, Pa., a Corporation of Pennsylvania. Filed June 11, 1927. Serial No. 198,170. 2 Claims. (Cl. 70—47.)

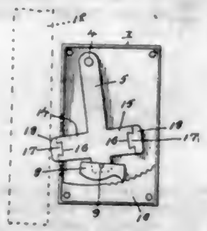
1. In a pin tumbler lock, the combination with a casing having a pinway comprising a plurality of tumbler chambers, of a plug rotatably mounted in the casing and having a plurality of tumbler cavities corresponding and adapted to register with the chambers of said casing, said plug having at least one eccentric peripheral recess in circumfer-

ential alignment with a tumbler cavity and the corresponding casing chamber, and a key-receiving slot intersecting the said cavities and intersected by said peripheral



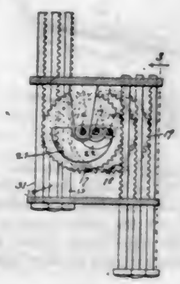
recess, and tumblers in the cavities and in the casing chambers including a section adapted to enter the eccentric recess of the plug when the latter is turned.

1,685,023. DOORCHECK. FRANK COWAN, Rochester, Minn. Filed June 10, 1927. Serial No. 197,917. 4 Claims. (Cl. 16—83.)



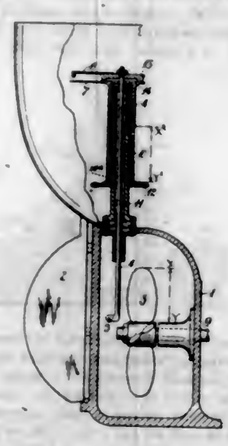
1. A door check of the character described comprising a casing having an opening formed therein, a hanger pivotally secured in said casing, means formed with said hanger and normally arranged through said opening to be arranged in the path of a door, notched means arranged in said casing and means pivotally secured to the hanger and cooperating with the notched means.

1,685,024. MUSIC-LEAF TURNER. ROBERT W. DE REIOS, Santa Barbara, Calif. Filed Aug. 13, 1927. Serial No. 212,716. 1 Claim. (Cl. 84—504.)



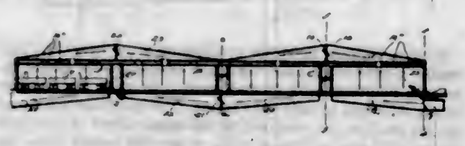
In a music leaf turner, a box-like structure, a backing secured to said box-like structure, a plurality of parallel spaced shafts supported in said box-like structure, a gear secured to each of said shafts, certain of said gears having semi-circular openings therein, certain of said shafts extending through said openings, a rack engaging each of said gears, a push button secured to each of said racks at a point outside of said box-like structure, an arm secured to each of said shafts at its upper extremity, and a clip secured to each of said arms for the purpose specified.

1,685,025. APPARATUS FOR INDICATING THE DIRECTION OR ANGLE OF STREAM LINES IN FLUIDS PARTICULARLY APPLICABLE FOR USE IN DESIGNING COUNTERPROPELLER DEVICES. MARY GERTRUDE HOLDSACH, Portsmouth, England. Filed Jan. 12, 1926, Serial No. 80,830, and in Great Britain Jan. 29, 1925. 3 Claims. (Cl. 73—55.)



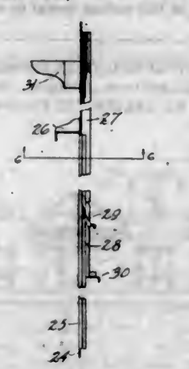
1. Apparatus for indicating the natural angle of flow of stream lines at different points of a fluid discharge for determining the angles of the blades of a counter propeller for marine or aerial vessels, comprising a support, a vane capable of angular displacement on said support, a rod on said support to which said vane is fixed, a dial plate, a pointer carried by said rod co-operating with said dial plate, and means for sliding the rod to various points of the fluid discharge.

1,685,026. DRIER. EUGENE A. HULTS, Saltville, Va. Filed Jan. 27, 1925. Serial No. 5,138. 3 Claims. (Cl. 34—46.)



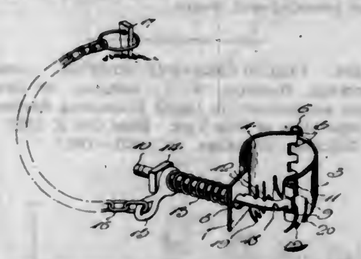
1. A drier comprising a series of compartments connected by a plurality of flues arranged to conduct heated air through the bottom of one compartment, thence upwardly through the same to the top of the next compartment in the series, thence downwardly through the same to the bottom of the next compartment in the series, and finally to the last compartment constituting the entrance compartment of the drier, the series of compartments having a plurality of tracks extending side by side therethrough and a separate flue for each of the plurality of tracks, the separate flues communicating with a single flue with means therein to force air through the plurality of flues and compartments, the compartments being separated one from the other by doors forming part of the permanent structure of the drier and through which the material to be dried may be passed from one compartment to the other, but which when closed will separate each of the compartments one from the other whereby air may be forced through a plurality of flues communicating with each compartment and with a common entrance flue.

1,685,027. WINDOW SCREEN. ANTONI JAROCH, Yorkville, Ohio. Filed July 19, 1927. Serial No. 206,995. 2 Claims. (Cl. 156—38.)



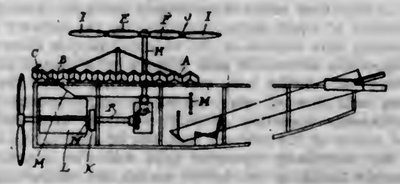
1. In a structure of the character described, wherein a window frame has a sliding sash therein, and a screen adapted to fit in said frame between the sash and an end of said frame; a bar consisting of a pair of telescopically connected sections, a hook member on one of the sections adapted to engage over the end of the sash remote from the screen, said screen having a socket to receive the end of the hook, means on the other section of said bar engaging the frame end remote from the screen, and a latch adapted to hook the bar sections releasably in adjusted position.

1,685,028. ANIMAL TRAP. FELIX G. JOHNSON, Clarinda, Iowa. Filed Jan. 23, 1928. Serial No. 248,802. 6 Claims. (Cl. 43—90.)



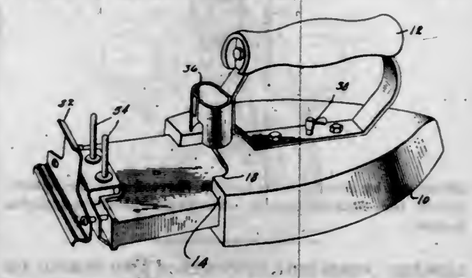
1. A trap comprising two arcuate jaws pivoted together at one end, the other end of one jaw being provided with an eye, a rod pivotally connected to the other end of the other jaw and passing slidably through said eye, said rod having means to engage said eye and hold the jaws open, and spring means for closing said jaws upon release of said holding means.

1,685,029. AIRCRAFT. THOMAS DANIEL KELLY, London, England. Filed Nov. 1, 1926, Serial No. 145,598, and in Great Britain Nov. 2, 1925. 2 Claims. (Cl. 244—15.)



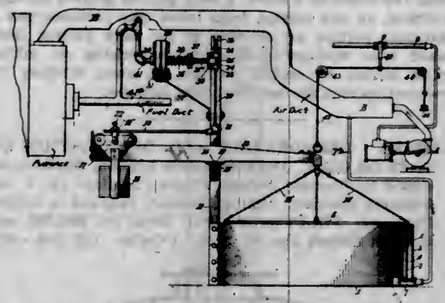
2. An aircraft having stationary wings provided with recesses and set at a dihedral angle to each other with a gap in the center of the front edge thereof, a helicopter surmounting the wings and comprising a horizontal propeller having fixed blades, a ring surrounding the fixed blades, a plurality of flexible blades surrounding and attached to the ring, a motor, and a one-way clutch connecting the helicopter with the motor.

1,685,030. COMBINED SADIRON AND HEATER. JOSEPH LAVOIE, Detroit, Mich., assignor to Ezra H. Frye, trustee, Detroit, Mich. Filed Mar. 8, 1926. Serial No. 93,123. 2 Claims. (Cl. 219—25.)



1. In a sad iron, a hollow generally triangular shell open at the broad end, a heating element shaped to fit within said shell and being bodily insertable and removable therefrom by sliding the same through the broad open end of the shell, said heating element comprising a metal frame of generally triangular shape having a top and sides and provided with a handle at its broad end, a core of refractory insulation disposed within said frame exposed on the bottom, a refractory non-heat conducting plate positioned between said core and the top of the frame, resistance wiring upon said core exposed at the bottom of the element, and a connection with said wiring extending upwardly from the frame at the broad end thereof, and means extending through the top of the shell engaging said element to releasably hold the same in place within the shell.

1,685,031. AIR-REGULATING MEANS FOR LIQUID-FUEL FURNACES. BARTON H. NOLAND, Brooklyn, N. Y. Filed Feb. 6, 1923. Serial No. 617,421. 5 Claims. (Cl. 158—1.)

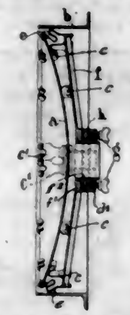


1. In combination with a furnace having separate pressure delivery means for fuel and for air, means for controlling the delivery of air and a balanced mechanism controlled by both the pressure of the fuel and the pressure of the air for maintaining a substantially constant ratio between the quantities of fuel and air delivered to the furnace.

1,685,032. MIRROR, REFLECTOR, AND THE LIKE. CHARLES ALGERNON PARSONS, Newcastle-on-Tyne, England. Filed Dec. 27, 1923, Serial No. 683,018, and in Great Britain Jan. 27, 1923. 7 Claims. (Cl. 88—1.)

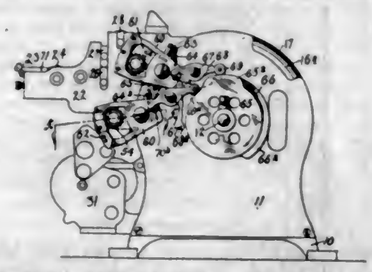
1. The combination of a searchlight projector mirror; means contacting with said mirror for applying opposite

forces to points thereof concentrated at about the ends of two diameters of said mirror mutually at right angles differentially to alter the curvature of said mirror along said



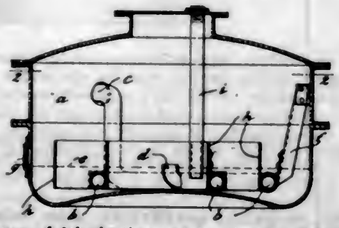
diameters by elastic deformation thereof and mechanical means for simultaneously actuating said force-applying means.

1,685,033. FORM-ROLLER CONTROL AND TIMING DEVICE. ROSWELL COVERT PICKETT, Warrenville, and HARRY WARD THOMPSON, Chicago, Ill., assignors to Advertisers Service Bureau, Chicago, Ill. Filed Nov. 8, 1926. Serial No. 147,108. 8 Claims. (Cl. 101—175.)



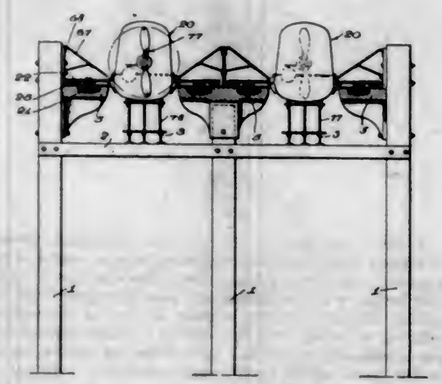
1. In a printing machine, a rotary element, having a plurality of printing forms thereon, means for printing from the forms on a sheet, a body portion printed through a ribbon, an end portion from inked type surfaces, and a marginal portion at the side of the body portion from inked type surfaces and means comprising an inking roller having its central portion cut away whereby its end portion inks the marginal type surfaces.

1,685,034. DEHYDRATION AND DISTILLATION OF TARS OR OILS. DOUGLAS RIDER, London, England, assignor to Thermal Industrial and Chemical (T. I. C.) Research Company Limited, London, England, a British Company. Filed Feb. 28, 1924, Serial No. 695,765, and in Great Britain Apr. 10, 1923. 1 Claim. (Cl. 196—92.)



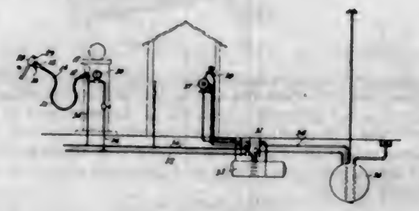
A process of dehydrating and fractionally distilling tars or oils, which consists in passing the liquid to be treated through a duct immersed in a bath of molten metal, maintaining the temperature of the molten metal at a point which exceeds by a few degrees only the boiling point of the fraction which it is desired to vaporize, and causing the liquid to issue from the said duct above the surface of the molten metal in such a manner that the liquid spreads over the surface of the molten metal in an even layer.

1,685,035. HIGH-SPEED-TRANSPORTATION SYSTEM. WILLIAM E. ROBERTSON, Reading, Pa. Filed June 3, 1927. Serial No. 196,276. 13 Claims. (Cl. 104—134.)



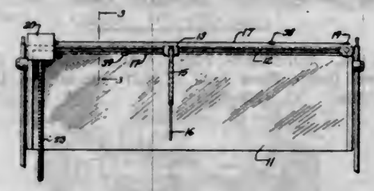
1. In a transportation system, a supporting structure, a lubricated guide and track carried thereby, an electric motor driven air propelled car having runners mounted to slide freely on said track, automatically operated air brakes on said car and an electric safety device for applying and releasing said brakes.

1,685,036. LIQUID-DELIVERY SYSTEM. GEORGE W. STEDWELL, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Liquid Dispensing Systems, Inc., a Corporation of New York. Filed Oct. 1, 1927. Serial No. 223,255. 12 Claims. (Cl. 221—100.)



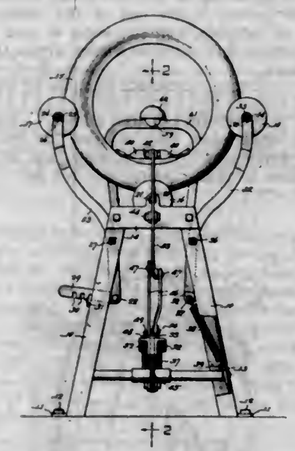
11. In liquid delivery apparatus, the combination with a liquid delivery line and a delivery hose at the end of the same, a valve controlling admission from the delivery line to said hose and a more remote valve for controlling admission of liquid under pressure into the delivery line, a Bowden wire control on the hose and flexible therewith, an operating device for said Bowden wire control at the delivery end of the hose and connecting means for enabling said Bowden wire control to effect substantially simultaneous operation of said relatively near and remote valves of the delivery line, one of said valves being of the electrically operated type and the connections aforesaid including an electric switch for controlling the electrically operated valve, the other valve being of the mechanically operated type and the connections for operating the same being of a mechanical nature.

1,685,037. WINDSHIELD WIPER. STEPHEN G. VAN DERBECK, Hackensack, N. J. Filed Feb. 8, 1926. Serial No. 86,854. 8 Claims. (Cl. 74—14.)



1. Operating means for a windshield wiper comprising a carriage adapted to traverse the windshield in opposite directions, an endless flexible actuating member for moving said carriage adapted to run substantially transversely and parallel to the surface of the windshield and having a run fixed to said carriage, power actuated means for driving said member adapted to have its direction of drive reversed, mechanism connected to said power means adapted to be set in different positions for causing said power means to reverse its direction of drive, and means fastened separately to each run of said member adapted successively to engage said mechanism for setting it in said different positions.

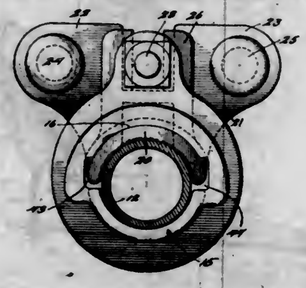
1,685,038. DEVICE FOR INSPECTING TIRES. MAURICE TEICH, Peekskill, N. Y. Filed Mar. 15, 1927. Serial No. 175,583. 2 Claims. (Cl. 154—9.)



1. A device of the character described comprising an upright support, arms pivotally connected respectively with portions of said support, an arrangement of rollers, one roller being on said support and one roller on each of said arms, means acting in conjunction with said arms for changing the relative disposition of said rollers, said means consisting of a spring connected between one of said arms and said support, and a latch for holding the other arm in different adjusted position.

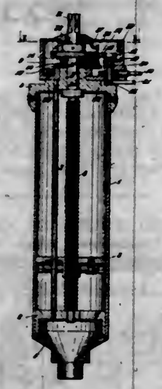
1,685,039. PIPE-HANGER ANCHOR AND THE LIKE. WILLIAM WAIGHT, Chicago, Ill., assignor to Midway Railway Equipment Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 16, 1928. Serial No. 247,187. 4 Claims. (Cl. 248—31.)

1. As a new article of manufacture, a pipe hanger and anchor for the purpose specified comprising in combination a collar member adapted to encircle and support a pipe element, and having substantially one half of its circular arc formed on a cylinder of radius substantially the same as that of the pipe element, and having its other and opposing portion formed of a larger size than the radius of pipe element, said larger sized portion tapering in size lengthwise of the collar member to thereby establish a semi-circular wedge shaped slotted opening between the collar member and the pipe element, the size of said opening tapering from a larger to a smaller dimension from one end of the collar member towards the other, a semi-circular wedge of tapered thickness having its concave surface substantially cylindrical and of substantially the same radius as the pipe element and adapted to seat



squarely against the pipe element, and having its convex surface adapted to seat and wedge against the inner surface of the collar at the position of the tapered wedge shaped slotted opening aforesaid, there being longitudinally extending grooves or relieves at the lines of joinder of the slotted opening with the collar section of smaller radius, for the purpose specified, companion lugs extending outwardly from the collar and the wedge shaped element at the wedge ends of maximum dimension, and means for drawing said lug elements together to thereby forcefully wedge the wedge element into the tapered slotted opening, substantially as described.

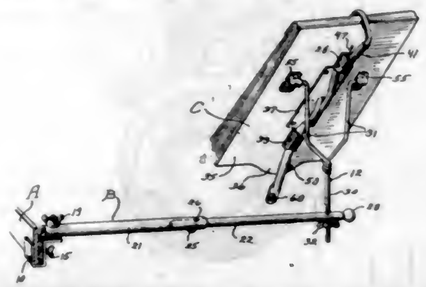
1,685,040. LUBRICATING APPARATUS FOR FLANGED WHEELS. ERNST ZBINDEN, Bern, Switzerland, assignor to Hasler A.-G. vormals Telegraphenwerkstätte von G. Hasler, Bern, Switzerland, a Swiss Corporation. Filed June 6, 1927, Serial No. 196,904, and in Switzerland June 10, 1926. 2 Claims. (Cl. 184—37.)



1. In a lubricating apparatus for the flanged rims of wheels running on rails, the combination with a sleeve containing grease, a piston in said sleeve, and a screw spindle adapted to move said piston, of a ratchet device for turning said screw spindle, comprising in combination a ratchet wheel fastened to said spindle, a pawl to turn said ratchet wheel, a pinion adapted to be revolved by said ratchet wheel, a spur-wheel fastened to said sleeve into which said pinion engages, a second spur-wheel into which said pinion also engages and arranged to rotate

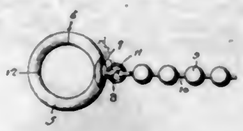
concentric to said first spur-wheel and having a somewhat different number of teeth, a scale connected with said second spur-wheel to show the position of said piston, and means connected with said second spur-wheel to lift said pawl out of engagement with said ratchet wheel when said piston is at the end of its outward stroke, substantially as set forth.

1,685,041. COPYHOLDER. HERMAN CHRISTIAN BINKELE, Tigard, Oreg. Filed Feb. 4, 1926. Serial No. 86,044. 4 Claims. (Cl. 120—28.)



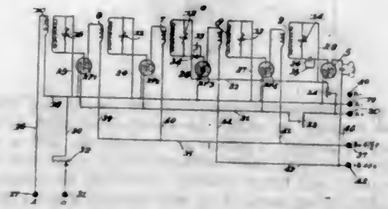
1. A copy holder comprising in combination, a swing beam embodying horizontally disposed inner and outer telescoping sections, said sections each being provided adjacent their outer ends with vertically aligning threaded bores of like diameter, a stand arm embodying a threaded shank portion for threaded engagement in either of the aligning bores, and a holder proper carried by the upper end of the stand arm for rotation therewith upon turning of the threaded shank portion into either of said bores.

1,685,042. JUMP-RING COUPLING. WALDO G. BRYANT, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 25, 1927. Serial No. 201,537. 1 Claim. (Cl. 59—93.)



A split jump ring having at a point spaced from the split in the ring a peripheral projection swedged from the body of the ring, said projection being of less thickness than the ring and having a head adapted for engagement by the split end ball of a bead chain.

1,685,043. RADIO RECEIVING CIRCUIT. JAMES M. CARTWRIGHT, Clarksdale, Miss. Filed Nov. 5, 1924. Serial No. 747,961. 2 Claims. (Cl. 250—20.)



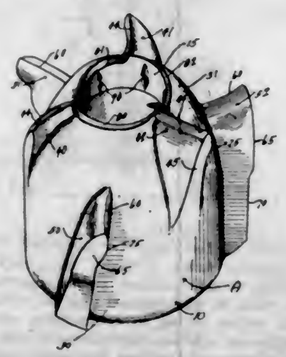
1. In a radio receiving system including a plurality of tuned radio frequency amplifying stages arranged in cascade relation, and each stage including a three electrode tube, a detector tube coupled for rectifying the output of the amplifying stages, and an adjustable grid leak arranged in the grid-filament circuit of a tube previous to the last radio frequency amplifying stage.

1,685,044. FOUNTAIN PEN. SAM CENTOFANTI, Youngstown, Ohio. Filed June 2, 1927. Serial No. 196,094. 1 Claim. (Cl. 120—46.)



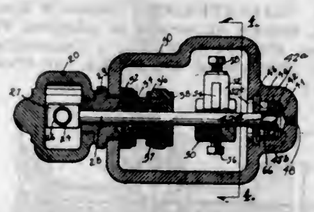
In a fountain pen, a barrel having opposed longitudinal slots, a hollow plunger slidable within the barrel and having a fluid-tight connection at its lower end with the interior of the barrel, and a transverse pin carried by the plunger and operating in said slots, and utilized to move the plunger toward either end of the barrel, heads on both ends of said pin, and the edges of said slots being beveled, whereby said heads lie wholly within the diameter of the barrel.

1,685,045. CORE-DRILLING HEAD. CLEMENT S. CLARKE, Shreveport, La., assignor to Oil City Iron Works, Shreveport, La., a Corporation of Louisiana. Filed June 8, 1927. Serial No. 197,445. 10 Claims. (Cl. 255—72.)



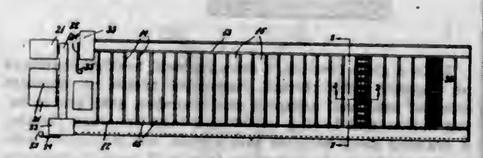
1. In a core drill head a hollow inverted truncated conoidal body, and a plurality of laterally extending cutting blades on the body having their cutting edges in the same plane at the lowermost end of the body, the body having a passageway therethrough, and the body about said passageway having its lower end margin continuously receding from the trailing side of each of the blades to a location immediately at the leading side of the next adjacent blade and with said end marginal edges all located above the cutting plane of said blades, so as to permit the core to be formed entirely by the cutting blades independent of the lower edge of the body about said passageway.

1,685,046. BEARING CONSTRUCTION FOR FLOAT-ARM SHAFTS. JACOB ETOR, Marshalltown, Iowa, assignor to The Fisher Governor Company, Inc., Marshalltown, Iowa. Filed Dec. 12, 1927. Serial No. 239,450. 8 Claims. (Cl. 137—104.)



1. In a structure of the class described, a float casing, a journal formed at the side of said casing, a shaft rotatably extended through said journal and adapted to be connected with a float arm at its inner end, a frame mounted on said journal having at its end opposite said journal a ball bearing, said shaft having a reduced spindle journaled in said ball bearing, and a shoulder adjacent to said ball bearing.

1,685,047. OPEN-TOP DRIER. CLAUD E. FULLER, New York, N. Y., assignor to New York Brick Handling Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1927. Serial No. 227,232. 1 Claim. (Cl. 34—19.)



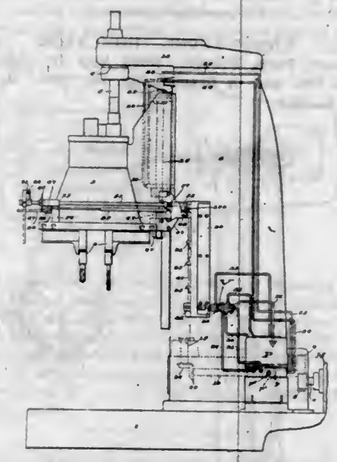
In an open top drier of the kind described, the combination of a base, a plurality of parallelly arranged compartments formed on the top thereof, an air inlet chamber arranged at one end of each of the compartments and being connected to each of said compartments, an air outlet chamber arranged along the other end of said compartments and being connected to each of said compartments, a heating coil arranged in the bottom of each compartment, said compartments being adapted to be filled with a plurality of containers, which containers form a top for the drier.

1,685,048. COUPLING FOR BEAD CHAINS. WILLIAM J. GAGNON, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 25, 1927. Serial No. 201,538. 5 Claims. (Cl. 59—93.)



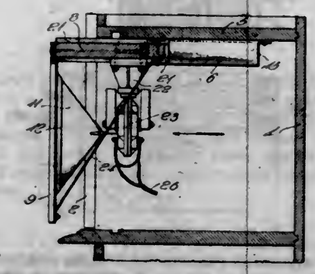
3. A coupling device for bead chains, comprising a plate apertured to afford a hole of sufficient diameter to accommodate the end ball of the chain, said hole merging into a slot of less width than the diameter of the ball, but adapted to accommodate a chain link connected to the ball, said slot extending to a point adjacent a margin of the plate, and said margin of the plate at the end of said slot being offset to form a restraining lip.

1,685,049. OIL-GEAR CONTROL FOR MACHINE TOOLS. ROBERT M. GALLOWAY, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed May 4, 1926. Serial No. 106,781. 29 Claims. (Cl. 77—32.)



1. A drilling machine combining a translatable drill head; a hydraulic transmission to effect translation of said drill head, said transmission comprising a cylinder, a piston movable in the cylinder and operatively connected with said drill head; a variable displacement pump; pipes connecting said pump with said cylinder at opposite sides of said piston; hydraulic means, including a fluid pressure line, exteriorly of said pump, connected to said pump, and a controlling valve independent of and remote from said pump and effective in said pressure line to determine the action of said pump and thereby the rate and path of flow of fluid from said pump into said cylinder, to translate said drill head in either direction and at a plurality of rates in one direction; and mechanical means, automatically controlled in the different positions of said head, to actuate said valve to effect a predetermined cycle of movement of said drill head.

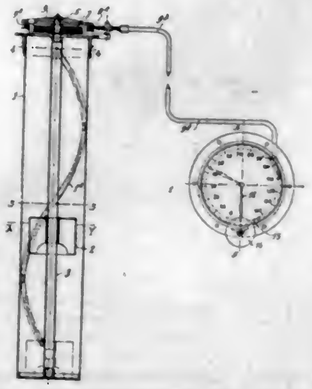
1,685,050. ELECTROMAGNETIC SOUND REPRODUCER. WILLIAM H. GEANS, East Orange, N. J., assignor to Brandes Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed Mar. 12, 1927. Serial No. 174,869. 13 Claims. (Cl. 179—179.)



2. A radio cabinet comprising a laterally extending shelf member, a pair of bracket members mounted beneath said laterally extending shelf member and adjacent op-

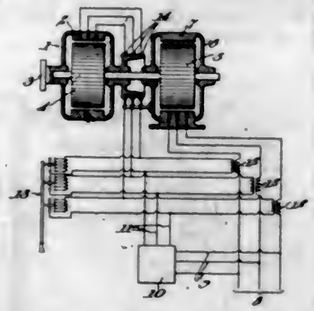
posite ends thereof, a frame member arranged to be slidably mounted within said bracket members and an electromagnetic driver carried by said frame member for actuating a sound reproducing diaphragm positioned within said radio cabinet and supported by said frame member.

1,685,051. LIQUID-LEVEL INDICATOR. JACQUES GIRARDET, Paris, France. Filed May 19, 1925, Serial No. 31,299, and in France Apr. 14, 1925. 4 Claims. (Cl. 73—82.)



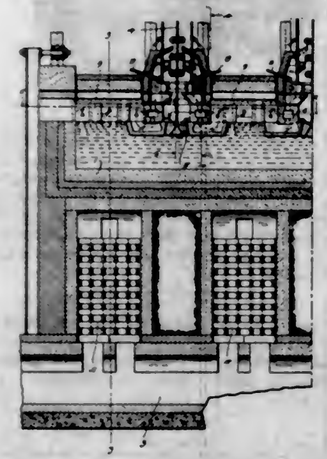
1. A level indicating apparatus for receptacles containing liquids, comprising a perforated cylinder having the same height as the said receptacle, a rotatable upright coaxial with said cylinder, a float slidable on the said upright, a helical ramp disposed within the said cylinder, a tappet secured to the said float and adapted to enter into contact with said ramp when the said upright is rotated, a pulley for rotating the said upright, an indicating dial, a pointer cooperating therewith, a pulley for operating the pointer, a Bowden power transmission device interposed between the two pulleys, and manually operated means for rotating the pointer operating pulley.

1,685,052. AUTOMATIC ELECTRIC CONTROL SYSTEM. BENJAMIN H. GREENE, Canton, Ohio. Filed Aug. 3, 1926. Serial No. 126,882. 3 Claims. (Cl. 172—237.)



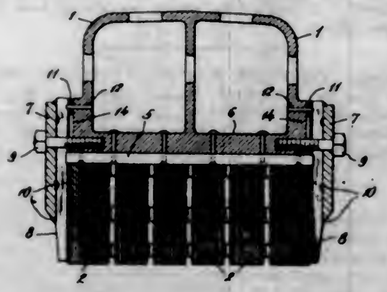
1. In a system of regenerative braking and control, the combination with a source of alternating current, an induction motor having electric connections from said source to the primary thereof, means to rotate said primary by the machine to be controlled, an electric generator driven by the secondary of the induction motor, connections from said generator to said source whereby current is fed back to the source, and means for varying the current delivered to the primary of the motor inversely to the current delivered by the generator.

1,685,053. GLASS FURNACE. THOMAS B. HART, Libow, W. Va., assignor of one-half to Adamston Flat Glass Company, Clarksburg, W. Va., a Corporation. Filed June 5, 1926. Serial No. 113,924. 10 Claims. (Cl. 49—17.)



1. In a glass furnace, a drawing well, heating chambers on opposite sides thereof, suspended arches on opposite sides of said well adjacent said chamber, said arches being hollow and having outlet and inlet openings therein, a drawing block between said arches, and means for conveying products of combustion from said heating chambers to said hollow arches.

1,685,054. DYNAMO-ELECTRIC MACHINE. CHARLES TRUMAN HIBBARD, Minneapolis, Minn., assignor to Electric Machinery Mfg. Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Nov. 24, 1926. Serial No. 150,421. 24 Claims. (Cl. 171—252.)



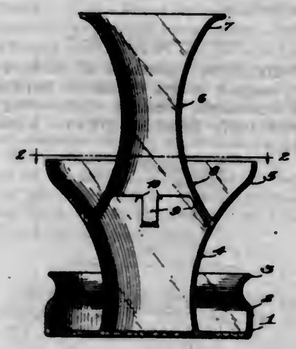
5. In a dynamo-electric machine the combination of a frame, a laminated core associated with said frame, said core having a plurality of teeth on its periphery, and a plurality of supports arranged on opposite sides of the core and extending along said teeth, said supports being fulcrumed at their outer ends on said frame and bearing at their inner ends against the core body and the core teeth.

1,685,055. SEPARABLE FASTENER. GUSTAV JOHNSON, West Roxbury, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Dec. 20, 1924. Serial No. 757,152. 1 Claim. (Cl. 24—216.)



A one-piece socket secured to a support and presenting a pre-formed continuous cap member at one side of the support a plurality of relatively long, narrow, attaching fingers pressed directly against and extending over a substantial portion of the opposite side of the support and being in contact with the support throughout the entire length of the attaching portions of said fingers and a plurality of neck-engaging jaws provided by said fingers between the attaching portions thereof and the cap, said jaws and said attaching fingers being expansible to permit passage of the head of a stud between said neck-engaging jaws.

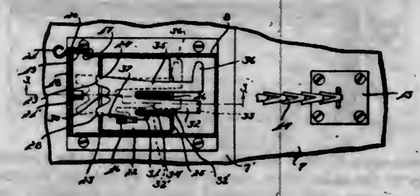
1,685,056. FLOWER HOLDER. FRANK J. QUICK, Arlington, R. I., assignor of forty per cent to MAX L. KRAMER, Cranston, R. I. Filed July 19, 1927. Serial No. 206,850. 1 Claim. (Cl. 47—41.)



A holder for cut flowers including a supporting base, a hollow body secured at its bottom to the bottom of the base, and a head having spaced parts on its lower end secured to the interior of the body at points below the top of the body, the lower end portion of the head being laterally spaced from the upper end of the body to form an annular water-receiving channel, the upper end of the head extending for a distance above the upper end of the body and forming an extension of the body whereby to support the heads of flower stems at a distance above the top of the body thereby to enable water to be poured into the channel without interference from the flower stems, the head having each of its ends open so as to receive the cut flower stems therethrough and to enable the lower or cut ends of the stems to seat on the bottom of the base.

1,685,057. AUTOMATIC SAFETY LATCH. FRED M. SCHULTZ, Detroit, Mich. Filed Nov. 25, 1927. Serial No. 235,473. 5 Claims. (Cl. 116—11.)

1. In a lock of the class described, a housing having a pair of spaced enlarged openings formed in one side thereof and provided with an elongated slot extending into each of said openings; a plunger slidably mounted in said housing; a spring engaging said plunger and normally pressing the same toward one side of said housing, said plunger having a notch formed therein; means in said housing for engaging in said notch and locking the same against movement in response to the pressure of said spring; a separable member insertable into said housing; a boss on said separable member for supporting an explosive cap in the path

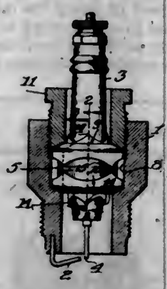


of said plunger; a separable member for engaging in said slots and sliding therein, said member while sliding in one of said slots releasing said plunger for movement in response to said spring and a laterally turned portion on one end of said plunger, said separable member while sliding in the other of said slots engaging said laterally turned member and serving to retract said plunger against the pressure of said spring.

1,685,058. PROCESS OF TREATING SLACK WAX. BENJAMIN L. SOUTHER, Pittsburgh, and WILLIAM A. GRUSE, Wilkinsburg, Pa., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Aug. 30, 1926. Serial No. 132,652. 12 Claims. (Cl. 196—20.)

1. In the treatment of slack wax, the process which comprises comminuting solid slack wax to a fluent consistency, adding a solvent liquid having preferential solvent action on the oil and mechanically separating the solid components from the liquid components.

1,685,059. SPARK-PLUG GASKET. CLAUDE B. BAILEY, Wyandotte, Mich. Filed Aug. 25, 1926. Serial No. 131,409. 8 Claims. (Cl. 123—169.)

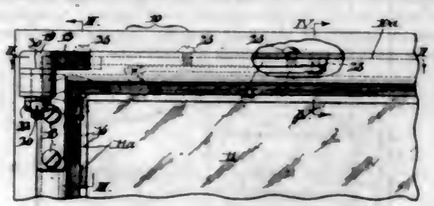


1. A spark plug gasket made of sheet metal and having an annular pressure receiving portion and a plurality of resilient prongs connected with and spaced apart about said pressure receiving portion, said prongs projecting axially of the gasket on opposite sides thereof from the inner and outer edges, respectively, of said pressure receiving portion.

1,685,060. WINDOW. JOAH BROGDEN, Melrose Park, Pa., assignor to David Lupton's Sons Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1927. Serial No. 174,319. 2 Claims. (Cl. 189—66.)

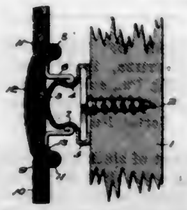
1. A sash mounting for pivoted windows including interpivoted members, each of which comprises an apertured ear with an offset attaching flange, and bearing boss with a

pivot pintle and dovetailed extension confined to sliding movement along parallel rails in the window frame, projector links connecting the frame and the sash to determine sliding of the pivot members incidentally to swinging



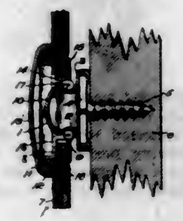
of the sash, friction elements at each side of the apertured ears in the sash pivots, and a spring washer for maintaining pressure upon said friction elements to yieldingly resist swinging movement of the sash.

1,685,061. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Dec. 20, 1924. Serial No. 757,160. 3 Claims. (Cl. 24—216.)



1. A fastener socket comprising a one-piece body portion having at its outer periphery prong-receiving and clenching means and a plurality of contractible and expansible stud-engaging portions extending in one direction only, that direction being away from said body portion and an attaching plate located at the outer face of a flexible socket-carrying medium, said plate presenting a plurality of attaching prongs adapted to pierce the carrying medium for engagement with said prong-receiving and clenching means presented by the body portion at the inner face of the carrying medium, thereby to secure the socket to the socket-carrying medium.

1,685,062. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Dec. 20, 1924. Serial No. 757,161. 4 Claims. (Cl. 24—216.)



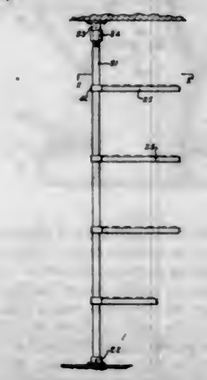
1. A fastener socket installation comprising, in combination, a carrying medium, a stud-receiving part having a flange seated against the outer face of the carrying medium, a tubular portion extending from said flange through an aperture in said carrying medium and turning and clenching means formed integral with said flange, said turning and clenching means being presented at said outer face of the carrying medium, and means presenting a plurality of attaching prongs, said means seated on the inner face of the carrying medium, said prongs piercing the carrying medium and engaging the turning and clenching means to secure said stud-receiving part in position.

1,685,063. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Feb. 26, 1925. Serial No. 11,693. 6 Claims. (Cl. 24—216.)



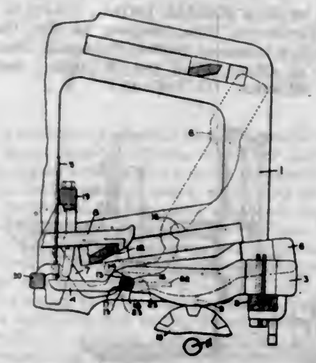
1. A fastener socket installation including a cap part, a carrying medium and a casing part, said casing part presenting a plurality of parallel concentrically arranged walls of substantially uniform height, some of said walls being divided by a plurality of slits to provide laterally yieldable stud-engaging means arranged about a stud-receiving aperture, the cap part being located on one side of the carrying medium and the casing part on the other, and cooperating attaching means in the form of prongs and prong-clenching means for securing said parts together, the said walls and the said cap part presenting surfaces toward the carrying medium which permit the carrying medium between them to lie in substantially the same plane as the remainder of the carrying medium.

1,685,064. SHELVING. RUDOLPH A. FRITZ, Jr., Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 6, 1927. Serial No. 217,761. 5 Claims. (Cl. 211—136.)



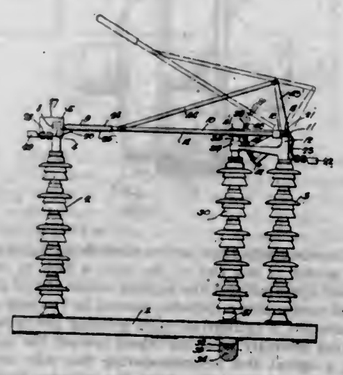
1. In knock-down shelving, a post, a corner-support having a head about said post and provided with an upper surface and a flange extending from said head in the angle of the corner throughout substantially a right angle about said post and lower than said upper surface and forming a rabbet in said corner-support about said post in said angle throughout substantially said right angle, said flange forming wings extending from said head at substantially right angles to each other and at diagonally opposite sides of said post, said wings having end faces at right angles to each other, and a shelf comprising a corner-piece located in said rabbet and a pair of angle-bars fixed in right-angular relation to said corner-piece, said angle-bars respectively comprising depending wings, said depending wings depending below said corner-piece, and the inside faces of said depending wings coacting with said right angular end faces of said first-named wings for resisting relative turning between said shelf and said corner-support.

1,685,065. LOOM DOBBY. NATHAN HEARD, Newton, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 30, 1928. Serial No. 250,355. 6 Claims. (Cl. 139—331.)



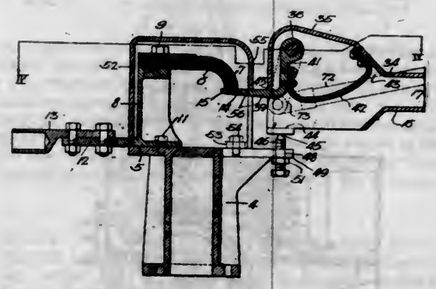
1. In a loom dobby the combination of a frame, a fulcrum shaft journalled in the frame sides and having therebetween a portion of segmental cross section, and a series of indicating fingers fulcrumed on the shaft and each having a circular bearing aperture of a diameter to fit the shaft with an opening through the bottom edge, one wall of said opening being tangent with the aperture and the other wall being spaced therefrom a distance corresponding to the shorter diameter of said segmental portion whereby, when the flat surface of the shaft is at the bottom, the fingers rock on the arcuate surface and are locked against removal and, when the shaft is rotated substantially ninety degrees, any finger may be lifted off the shaft and replaced without disturbing the remainder.

1,685,066. HIGH-VOLTAGE SWITCH. WILLIAM R. HUTTINGER, Philadelphia, Pa. Filed Jan. 29, 1924. Serial No. 689,256. 33 Claims. (Cl. 200—48.)



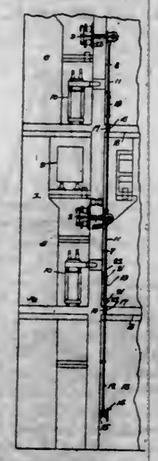
1. In a switch, the combination with a stationary contact member, of an elongated movable contact member having a main portion and a contact portion movable longitudinally of said main portion, and worm-and-wheel means for successively actuating said contact portion and said movable contact member as a whole in timed relation.

1,685,067. HIGH-VOLTAGE SWITCH. WILLIAM R. HUTTINGER, Philadelphia, Pa. Filed June 25, 1924. Serial No. 722,281. 22 Claims. (Cl. 200—48.)



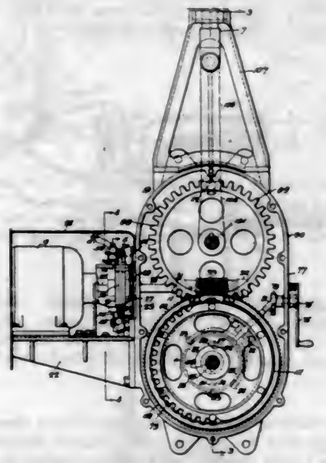
3. In an electric switch, a movable contact element, a housing supported by said movable contact element and constituting a part thereof, and a contact portion pivotally mounted in said housing and movable from said housing into an effective position.

1,685,068. SWITCH MECHANISM. WILLIAM R. HUTTINGER, Philadelphia, Pa. Filed June 26, 1925. Serial No. 39,790. 21 Claims. (Cl. 200—18.)



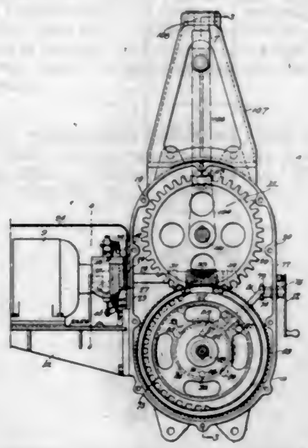
18. In a multiphase electrical system, the combination with a plurality of switches for said system, of an operating member, means for operatively associating said switches and said operating member including a plurality of worm elements mounted on said operating member, and means tending to prevent the thrust of said worm elements from being transferred to said operating member.

1,685,069. SWITCH-OPERATING MECHANISM. JOHN H. DILKS, Philadelphia, Pa., assignor to Electric Power Equipment Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 12, 1924. Serial No. 719,677. 6 Claims. (Cl. 200—92.)



5. The combination with a high voltage switch to be actuated, of a driving motor, and means for operatively associating said motor and said switch comprising a worm-gear drive and intermittent gear-wheel mechanism connected to be actuated by said drive.

1,685,070. SWITCH APPARATUS. JOHN H. DILKS, Philadelphia, Pa. Filed Aug. 16, 1927. Serial No. 213,313. 8 Claims. (Cl. 200—92.)

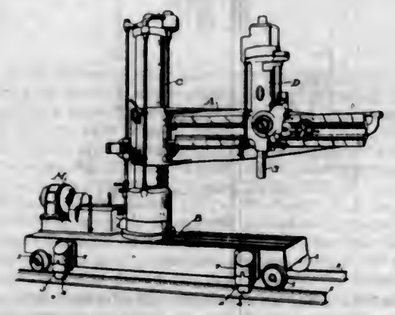


1. The combination with driving means, a switch to be actuated and mechanism for operatively associating said driving means and said switch, of a limit switch and intermittent gearing for operatively associating said limit switch and said mechanism, whereby said limit switch may control the operation of said driving means.

1,685,071. AMINODIARYLSULPHONPYRAZOLONE AZODYESTUFFS. HUGO SCHWEITZER, Wiesdorf, near Cologne, and WILHELM NEELMEIER, Leverkusen, near Cologne, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 5, 1926, Serial No. 79,476, and in Germany Jan. 8, 1925. 12 Claims. (Cl. 260—87.)

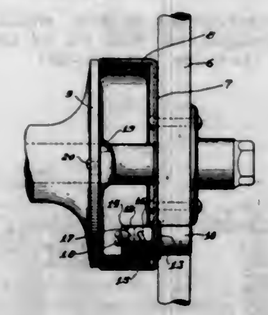
3. As a new product the azo dyestuff consisting of the product obtainable by coupling an aromatic diazo compound with a pyrazolone of a sulphonated aminodiarylsulphone.

1,685,072. MOBILE RADIAL DRILL. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 8, 1924. Serial No. 742,376. 8 Claims. (Cl. 188—43.)



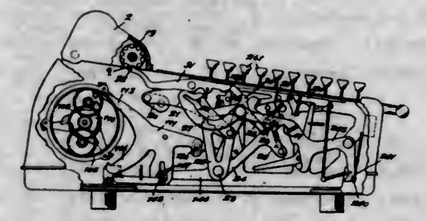
1. In combination with a machine-tool; a base; a support for said base; means permitting said base to be moved on its support; a plurality of sets of locking devices adapted to secure said base against movement; power means for actuating said locking devices; an equalizing device between said power means and each set of locking devices; and equalizing means between the locking devices in each set.

1,685,073. AUTOMOBILE ALARM. HERBERT L. HONOHAN, Chicago, Ill., assignor to William D. Honoban, Chicago, Ill. Filed June 21, 1927. Serial No. 200,415. 4 Claims. (Cl. 116—33.)



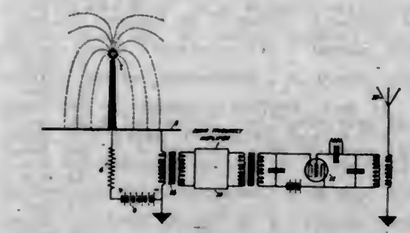
1. An automobile theft alarm comprising a gong carried by the spider at one end of the axle, a lock in the brake drum and operated by a key applied externally of the wheel said lock comprising a cylinder rotated by the lock and having a side pin, a cylindrical shell housing the cylinder and projecting laterally from the wheel toward the spider and having a spiral slot accommodating the side pin, and a striking element extending from the cylinder through the shell and adapted to sound said gong when the brake drum rotates with the cylinder in advanced position in the path of said gong.

1,685,074. MULTIPLIER MECHANISM FOR CALCULATING MACHINES. GEORGE C. CHASE, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of Delaware. Filed Mar. 15, 1926. Serial No. 94,968. 17 Claims. (Cl. 235—62.)



1. In a calculating machine having numeral wheels, actuating means therefor, driving means for said actuating means including a motor, and a clutch between said driving means and said actuating means, a plurality of multiplier keys of differing numerical value, a control member movable upon depression of any multiplier key and held thereby in position to effect the clutch and to determine additive registration upon said numeral wheels, a member progressively advanced in the operation of said actuating means and acting to release said control member from the depressed multiplier key on the determination of a number of cycles of operation corresponding to the value of said depressed key, cooperating mechanism operable to release the clutch and bring the actuating means to rest upon release of said control member, and a key depressible to effect the clutch and to determine subtractive registration upon said numeral wheels, said cooperating means being operable upon manual release of said last named key to release the clutch and bring the actuating means to rest, and said control member acting to lock the subtract key in raised position while a multiplier key is depressed and to lock the multiplier keys in raised position while the subtractive key is depressed.

1,685,075. INTERTRANSPOSITION OF SOUND AND ELECTRICAL ENERGY. NILS E. LINDENBLAD, Shorenam, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 17, 1927. Serial No. 213,567. 12 Claims. (Cl. 179—113.)



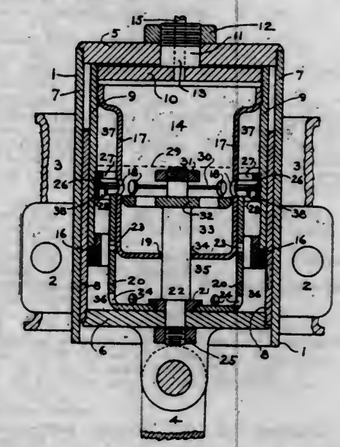
1. The method of intertransposing sound and electrical energy which includes producing a corona discharge in the air medium which is to carry the sound, and utilising the relation between air pressure, the heating effect of the corona discharge, and the electrical energy producing it, to obtain intertransposition of sound and electrical energy.

1,685,076. GAME. MARION MILEWSKI, Lebanon, Pa. Filed Apr. 19, 1920, Serial No. 375,001. Renewed Feb. 13, 1928. 9 Claims. (Cl. 273—119.)



1. A game apparatus comprising a race way having diverging upstanding side walls, a missile projecting device at the restricted ends of the walls, a plurality of upstanding spaced partitions arranged across the race way and extending longitudinally thereof, said partitions being arranged on opposite sides of the longitudinal center of the race way, the partitions on each side of the center being arranged parallel to its nearest side wall of the race way.

1,685,077. AIR SPRING WITH NONELASTIC FLUID SHOCK ABSORBER. JOHN HUGH O'NEILL, Springfield, Mo. Filed Jan. 15, 1925, Serial No. 2,658. Renewed Feb. 24, 1928. 3 Claims. (Cl. 267—64.)



1. In an air spring with non-elastic fluid shock absorbers, a vertically disposed, telescoping pair of tubes forming a fluid pressure chamber of variable volumetric capacity, liquid and gaseous fluids within said fluid pressure chamber, the upper tube of said telescoping pair of tubes being provided with a piston containing an automatic valve opening with an upward and closing with a downward flow of fluid, and an upper cup-shaped member depending bottom downward, said upper cup-shaped member being provided with an annular row of orifices in the side wall thereof the lower tube of said telescoping pair of tubes being provided with a piston containing an automatic valve opening with an upward and closing with a downward flow of fluid, and a lower cup-shaped member, said lower cup-shaped member being provided with an annular row of orifices adjacent to the bottom of the side wall thereof.

Heater for water-cooled internal-combustion engines, Electric water. L. Parker and L. E. Miller. 1,684,845; Sept. 18.
Heating apparatus, Electrical. R. A. Carleton. 1,684,942; Sept. 18.
Heating device, Liquid-. A. J. Lambert. 1,684,630; Sept. 18.
Heating element, Thermostatically-controlled. L. H. Lamont. 1,684,544; Sept. 18.
Heating system, Feed-water. B. F. Madison and E. C. Krume. 1,684,965; Sept. 18.
High-voltage switch. W. R. Huttinger. 1,685,066–7; Sept. 18.
Hinge, Weatherproof. V. J. Matranga. 1,685,002; Sept. 18.
Hoe weeder. A. J. Hayden. 1,684,444; Sept. 18.
Hoist. C. H. Homan. 1,684,988; Sept. 18.
Hoist. E. A. Thielen. 1,684,606–7; Sept. 18.
Holder, Flower. F. J. Quick. 1,685,056; Sept. 18.
Holder, Map. H. W. Prettyman. 1,684,682; Sept. 18.
Holder, Paper-napkin. H. L. Samson. 1,684,517; Sept. 18.
Holder, Safety-razor-blade. G. F. Heffelbower. 1,684,830; Sept. 18.
Holder, Shingle. C. R. Eckert. 1,684,479; Sept. 18.
Holder, Wire clamp and insulator. S. J. Speir. 1,685,009; Sept. 18.
Honey rick. S. G. Broyles. 1,685,021; Sept. 18.
Hose clamp. C. A. Norgren. 1,684,713; Sept. 18.
Hose, Making nonexpansible. M. R. Sherbino. 1,684,718; Sept. 18.
Hose, Nonexpansible. M. R. Sherbino. 1,684,717; Sept. 18.
Humidifying device, Automatic. W. B. Coleman. 1,684,757; Sept. 18.
Inclination indicator. J. W. Bell. 1,684,788; Sept. 18.
Increasing the usefulness of fodder and food. E. Mislin. 1,685,004; Sept. 18.
Index, Card. S. L. Forbes. 1,684,620; Sept. 18.
Index-card system, Visible. W. A. Ringler. 1,684,807; Sept. 18.
Indicating the direction or angle of stream lines in fluids particularly applicable for use in designing counter-propeller devices, Apparatus for. M. G. Holbeach. 1,685,025; Sept. 18.
Indicator: *See*—
Inclination indicator. Liquid-level indicator.
Insulator, High-tension. M. F. H. Gouverneur. 1,684,441; Sept. 18.
Intermittent thermal switch. H. F. Löwenstein. 1,684,709; Sept. 18.
Internal-combustion engine. E. C. Cooper. 1,684,910; Sept. 18.
Internal-combustion engine. D. A. Davison. 1,684,434–5; Sept. 18.
Internal-combustion engine. E. Nibbs. 1,684,407; Sept. 18.
Ion concentration control. I. B. Smith and E. A. Keeler. 1,684,645; Sept. 18.
Ironer. R. Hilgedick. 1,684,584; Sept. 18.
Ironing board. C. L. Ackerman. 1,684,378; Sept. 18.
Jack. F. M. Aycock. 1,685,015; Sept. 18.
Joint for extension rules. H. Gasstrom. 1,684,483; Sept. 18.
Joint for pistons and connecting rods, etc. A. F. Gay. 1,684,862; Sept. 18.
Joint machine, Ring-. W. L. Evans. 1,684,760; Sept. 18.
Jump-ring coupling. W. G. Bryant. 1,685,042; Sept. 18.
Kettle and the like. M. Tocchio. 1,684,811; Sept. 18.
Kitchen utensil, Combination. F. P. Harker. 1,684,622; Sept. 18.
Knitting machine, Spring-board-. K. Howie. 1,684,583; Sept. 18.
Knob lock. L. Huffman. Re17,084; Sept. 18.
Lamp. M. A. Buchwalter. Des. 76,340; Sept. 18.
Lamp. A. R. Kanné. Des. 76,347; Sept. 18.
Lamp, Arc. C. S. Ashcraft. 1,684,655; Sept. 18.
Lamp bulb, Incandescent-. H. B. Donley. 1,684,949; Sept. 18.
Last-engaging dog for last lathes. W. H. Kay. 1,684,960; Sept. 18.
Latch, Automatic safety. F. M. Schultz. 1,685,057; Sept. 18.
Latch, Cupboard. F. W. McCormick. Des. 76,351; Sept. 18.
Latch-mechanism handle. W. J. Mayer. 1,684,499; Sept. 18.
Laundry-distributing apparatus. T. L. Lowe. 1,684,452; Sept. 18.
Leg, Artificial. L. J. Lamb. 1,684,921; Sept. 18.
Lettering on stone monuments and other hard substances. J. H. Behee, jr. 1,684,431; Sept. 18.
Lid, Journal-box. L. W. Hostettler. 1,684,541–2; Sept. 18.
Light: *See*—
Ornamental light.
Lighter, Cigar. E. Tennhardt. Des. 76,362–3; Sept. 18.
Lighting and ignition switch. E. A. Bohlman. 1,684,940; Sept. 18.
Lighting device for vehicles. F. N. Draper. 1,684,695; Sept. 18.
Lighting fixture. E. O. Schweitzer. 1,684,416; Sept. 18.
Line, Ten-yard. M. H. Winkler. 1,684,566; Sept. 18.
Lingerie clasp. E. B. Breen. 1,685,020; Sept. 18.
Link, Cross-chain. G. B. Cady. 1,684,909; Sept. 18.
Link strap. C. R. Tost. 1,684,977; Sept. 18.
Lining, Adjustable hat. L. B. Weir. 1,684,610; Sept. 18.
Liquid-delivery system. G. W. Stedwell. 1,685,036; Sept. 18.
Liquid fuel. E. H. Records. 1,684,685; Sept. 18.
Liquid fuel, Aqueous. E. H. Records. 1,684,686; Sept. 18.
Liquid-level indicator. J. Girardet. 1,685,051; Sept. 18.
Lock: *See*—
Car-door lock. Pin-tumbler lock.
Knob lock.
Lock. F. O. Brunelle. 1,684,908; Sept. 18.
Locking device for typewriters. R. Helmers. 1,684,702; Sept. 18.
Locomotive, Electric. C. O. Bowen. 1,684,779; Sept. 18.
Locomotives, Duplex nozzle for. R. R. Bush and C. W. Dake. 1,684,791; Sept. 18.
Loom. C. Bilhartz. 1,684,789; Sept. 18.
Loom dobby. N. Heard. 1,685,065; Sept. 18.
Looms, Harness hook for. B. Hetherington. 1,684,733; Sept. 18.
Loud speaker for radio receiving apparatus. A. H. Haag. 1,684,956; Sept. 18.
Low-water alarm. H. B. Thurston. 1,684,897; Sept. 18.
Lubricating apparatus for flanged wheels. E. Zbinden. 1,685,040; Sept. 18.
Lubricating mechanism. E. G. Gartin. 1,684,668; Sept. 18.
Lubrication of single-sleeve engines. A. A. Woodward. 1,684,463; Sept. 18.
Magnetic apparatus. C. S. Snavely. 1,684,929; Sept. 18.
Mail box. W. R. Bankson. 1,684,384; Sept. 18.
Mail box. T. L. Parker. 1,684,513; Sept. 18.
Mail box, Rural. A. H. Habighorst. 1,684,823; Sept. 18.
Measuring apparatus for paving machines. T. W. Rosholt and H. Cederstrom. 1,684,971; Sept. 18.
Measuring apparatus, Liquid. R. F. M. Webking. 1,684,785; Sept. 18.
Medicine-administering device. S. Levy, jr. 1,684,909; Sept. 18.
Metal-bending machine. S. H. Gibson. 1,684,794; Sept. 18.
Metal parts together, Uniting. A. J. Weatherhead, jr. 1,684,932; Sept. 18.
Metal table. C. C. O'Conor. 1,684,966; Sept. 18.
Metallic articles such as stereotypic plates and producing same, Coated. C. C. Waller. 1,684,565; Sept. 18.
Metatarsal pad. A. Degling. 1,684,948; Sept. 18.
Milk-bottle carrier. R. W. Kennard. 1,684,995; Sept. 18.
Mining machine. F. Cartlidge. 1,684,943; Sept. 18.
Mirror back or similar article. E. Tennhardt. Des. 76,360–1; Sept. 18.
Mirror, Rear-sight. H. T. Scott. 1,684,560; Sept. 18.
Mirror, reflector, and the like. C. A. Parsons. 1,685,032; Sept. 18.
Mixing device for internal-combustion engines. M. W. Evans. 1,684,480; Sept. 18.
Mixture-forming means for internal-combustion engines. L. M. Woolson. 1,684,902; Sept. 18.
Mold. D. J. Ryan. 1,684,715; Sept. 18.
Mold. J. P. Urban. 1,684,978; Sept. 18.
Monitoring and controlling circuits for program distribution. J. F. Toomey. 1,684,422; Sept. 18.
Mop. J. I. Anderson. 1,684,379; Sept. 18.
Mop. R. C. Thompson. 1,684,460; Sept. 18.
Motor: *See*—
Stream motor.
Motor-starting device. E. C. Ballman. 1,684,937; Sept. 18.
Multiplier mechanism for calculating machines. G. C. Chase. 1,685,074; Sept. 18.
Music-leaf turner. R. W. De Reign. 1,685,024; Sept. 18.
Musical-instrument stand. C. T. Dunklau. 1,684,912; Sept. 18.
Musical instrument, Stringed. A. Boothe. 1,684,467; Sept. 18.
Needle guard for sewing machines. R. L. Lyons. 1,684,453; Sept. 18.
Needle holder. U. S. Chapman. 1,684,473; Sept. 18.
Needle-selector jacquard for knitting machines. K. Howie. 1,684,586; Sept. 18.
Numbering and counting device. W. W. Lasker. 1,684,545; Sept. 18.
Odometer. R. M. Simpson, jr. 1,684,928; Sept. 18.
Oil burner. B. K. Inglis. 1,684,990–1; Sept. 18.
Open-top drier. C. E. Fuller. 1,685,047; Sept. 18.
Organic compound of antimony and producing it, Water-soluble. M. S. Kharasch. 1,684,920; Sept. 18.
Organic compounds containing oxygen, Purifying. O. Schmidt, K. Seydel, and A. Feiler. 1,684,640; Sept. 18.
Ornament, Ear. R. Spear. 1,684,783; Sept. 18.
Ornamental light. L. W. Mammen. 1,684,922; Sept. 18.
Oven and broiler rack handling device. W. Parke. 1,684,595; Sept. 18.
Oven, Cyanimide. G. B. Cox. 1,684,758; Sept. 18.
Overgaiter. C. Tweedie. 1,684,812; Sept. 18.
Package. J. P. Hooper. 1,684,540; Sept. 18.
Pad: *See*—
Metatarsal pad.
Pad and lining, Fruit-box. D. H. Rosenberg. 1,684,556; Sept. 18.
Paint or waterproofing material and producing the same. F. W. McRae. 1,684,593; Sept. 18.

Pan for refrigerators, Removable drain. E. P. Schwarz. 1,684,558; Sept. 18.
Pantograph. L. Ridgway. 1,684,887; Sept. 18.
Paper, Box-wrapping. R. Wilmot. Des. 76,366; Sept. 18.
Paper holding and advancing mechanism. G. I. Snyder. 1,684,689; Sept. 18.
Paving rammer. E. H. Carlsson. 1,684,574; Sept. 18.
Pen, Fountain. C. E. Marshall. 1,684,402; Sept. 18.
Pen stand. B. M. Shoemaker. Des. 76,357; Sept. 18.
Pencil. J. P. Lynn. 1,684,635; Sept. 18.
Perylene, Manufacture of. C. H. Marschalk. 1,684,738; Sept. 18.
Picker: *See*—
Cotton picker.
Picture apparatus, Motion-. F. H. Owens. 1,684,968; Sept. 18.
Pin-tumbler lock. G. E. Cleaver. 1,685,022; Sept. 18.
Pipe band. C. A. Frazier. 1,684,666; Sept. 18.
Pipe connection for cylinder machines, Vacuum. E. E. Berry. 1,684,615; Sept. 18.
Piston for internal-combustion engines. K. O. Keller. 1,684,629; Sept. 18.
Placer-mining machine. F. H. Krueger. 1,684,869; Sept. 18.
Platen-adjusting mechanism. J. H. Barr. 1,684,429; Sept. 18.
Pliers. W. M. Niekirk. 1,684,775; Sept. 18.
Plow wheel. F. E. Konell. 1,684,833; Sept. 18.
Plug, Safety. W. Davis. 1,684,911; Sept. 18.
Pocket, Wall. C. Apelt. Des. 76,338; Sept. 18.
Polishing attachment for vacuum cleaners. B. Freeman. 1,684,698; Sept. 18.
Post: *See*—
Fence post. Tone post.
Pot: *See*—
Draw pot.
Power clamp. E. C. Loetscher. 1,684,548; Sept. 18.
Power presses, Safety device for foot. C. G. Armstrong. 1,684,569; Sept. 18.
Power-transmitting apparatus. J. D. Nixon. 1,684,679; Sept. 18.
Predeterminer and indicator. E. M. Pierce and W. M. Carroll. 1,684,926; Sept. 18.
Press: *See*—
Die press. Printing press.
Pressing-machine element. E. Davis. 1,684,819; Sept. 18.
Pressure-controlled device. F. J. Bast. 1,684,530; Sept. 18.
Printing press. W. O. Hall and W. C. Buchanan. 1,684,731; Sept. 18.
Printing press. W. F. Luck. 1,684,592; Sept. 18.
Propeller. C. A. Wragg. 1,684,567; Sept. 18.
Pump. W. G. Brown. 1,684,468; Sept. 18.
Pump. N. H. Henderson. 1,684,490; Sept. 18.
Pump. A. G. Norton. 1,684,880; Sept. 18.
Pump, Spinning. C. W. Lawser. 1,684,871; Sept. 18.
Pump, Vacuum. C. H. Hapgood. 1,684,395; Sept. 18.
Radial drill. W. W. Edwards. 1,684,665; Sept. 18.
Radial drill, Mobile. D. C. Klausmeyer. 1,685,072; Sept. 18.
Radiator cap locking device. L. A. Reiner. 1,684,412; Sept. 18.
Radiator shell. E. W. Seaholm and H. J. Earl. Des. 76,356; Sept. 18.
Radio attachment for talking machines. E. A. Widmann and F. D. Lewis. 1,684,933; Sept. 18.
Radiocabinet or similar article. J. J. Heyman. Des. 76,346; Sept. 18.
Radio dial escutcheon plate. C. P. Hansen. Des. 76,345; Sept. 18.
Radiofrequency amplifier and making and operating the same. A. S. Blatterman. 1,684,939; Sept. 18.
Radio receiving circuit. J. M. Cartwright. 1,685,043; Sept. 18.
Radio vision studio equipment. C. F. Jenkins. 1,684,736; Sept. 18.
Rail-connecting device. P. P. Pipes. 1,684,885; Sept. 18.
Rail-joint spring. L. E. Endsley. 1,684,619; Sept. 18.
Receptacle, Molded-glass. J. E. Marsden. 1,684,498; Sept. 18.
Rectal, vaginal and surgical uses, Apparatus for. J. M. Fulton. 1,684,621; Sept. 18.
Reel: *See*—
Wire reel.
Reflector with projections, Christmas-tree. L. L. Raymond. 1,684,847; Sept. 18.
Refrigerating apparatus. A. M. Thomson. 1,684,810; Sept. 18.
Refrigeration, Process and apparatus for. G. T. Voorhees. 1,684,423; Sept. 18.
Refrigerator. W. G. and G. R. Seeger. 1,684,716; Sept. 18.
Refrigerator. E. Swedman. 1,684,563; Sept. 18.
Refrigerator construction. C. E. Lucke. 1,684,549; Sept. 18.
Refrigerntor freezing device. T. J. Litle, jr. 1,684,590; Sept. 18.
Register: *See*—
Autographic register. Furnace register.
Regulator: *See*—
Flow regulator.
Reproducer, Electromagnetic sound. F. A. Kolster and S. A. Sollie. Re17,086; Sept. 18.
Resilient wheel. H. M. Patch. 1,684,596; Sept. 18.
Resins, Production of. I. H. Jones. 1,684,868; Sept. 18.
Ribbon-control device for time recorders, Multicolored. C. E. Larrabee. 1,684,400; Sept. 18.
Rock drill, Percussive. E. Penberthy. 1,684,638; Sept. 18.
Roof, Insulated. H. S. Ashenhurst. 1,684,527; Sept. 18.
Roost. H. F. Thumann. 1,684,608; Sept. 18.
Sadiron and heater, Combined. J. Lavoie. 1,685,030; Sept. 18.
Sadirons, Lamp attachment for. J. E. Picklesimer. 1,684,742; Sept. 18.
Salts from aqueous solutions, Extraction of. D. G. Zalocostas. 1,684,935; Sept. 18.
Sanding machine. E. R. Young. 1,684,464; Sept. 18.
Saw, Bone. W. F. Wells. 1,684,815; Sept. 18.
Scale. F. B. Hamblin. 1,684,957; Sept. 18.
Scarf, Table. J. Derk. Des. 76,342; Sept. 18.
Scooter, Toy sea. E. V. Babbitt. Des. 76,339; Sept. 18.
Screen: *See*—
Window screen.
Screening machine. J. O. Bowmaster. 1,685,018; Sept. 18.
Screw or nut driving device for portable power-driven rotary tools. A. Levedahl. 1,684,633; Sept. 18.
Sealing casing head. W. L. McLaine and W. L. Borough. 1,684,678; Sept. 18.
Seat for vehicles and the like, Slidable. A. W. Chapman. 1,684,944; Sept. 18.
Sectional wheel. A. Meldrum. 1,684,552; Sept. 18.
Shackle antirattle attachment, Spring-. H. E. Blomgren. 1,684,724; Sept. 18.
Shade, Glare. W. A. Simmons. 1,684,418; Sept. 18.
Shafting, Spinning. J. J. Keyser. 1,684,919; Sept. 18.
Sharpener, Shears. G. Jarboe. 1,684,866; Sept. 18.
Shears: *See*—
Flying shears.
Sheath for flexible shafts, Protective. G. Riefenstahl. 1,684,554; Sept. 18.
Sheet-drawing apparatus. E. T. Ferngren. 1,684,437; Sept. 18.
Sheet-forming machine. C. E. Dellenbarger. 1,684,436; Sept. 18.
Shelving. R. A. Fritz, jr. 1,685,064; Sept. 18.
Shelving. R. A. Ostram and C. E. Frykdahl. 1,684,410; Sept. 18.
Shield for vehicles, Antiglare. A. Steger. 1,684,690; Sept. 18.
Shield, Long-wall mining. E. Ramsay. 1,684,597; Sept. 18.
Shim drift. J. D. and E. M. Tucker. 1,684,526; Sept. 18.
Shipping by parcel post. W. S. Close. 1,684,756; Sept. 18.
Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,684,538–9; Sept. 18.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,684,510; Sept. 18.
Shoe. G. W. Blair. 1,684,660; Sept. 18.
Shoe. T. Roberts. Des. 76,355; Sept. 18.
Shoe, Turn. R. Kaminsky. 1,684,543; Sept. 18.
Short-circuiting device. F. J. Bullivant. 1,684,941; Sept. 18.
Shower receptor. G. A. Nilson. 1,684,502–3; Sept. 18.
Shuttle, Self-threading. C. Ricard. 1,684,780–1; Sept. 18.
Sickle-bar section. F. J. Bleck. 1,684,780–1; Sept. 18.
Side frame. D. S. Barrows. 1,684,787; Sept. 18.
Sign. G. P. Butler. 1,684,470; Sept. 18.
Sign controller. M. Haase. 1,684,304; Sept. 18.
Signal for railroad tracks, Safety danger. G. F. Baker. 1,684,904; Sept. 18.
Signaling device. A. O. Beckman. 1,684,659; Sept. 18.
Signaling device. F. W. Billig. 1,684,906; Sept. 18.
Signaling device. W. Sparks, T. J. Scofield, L. E. Johnson, and F. W. Billig. 1,684,895; Sept. 18.
Signaling, Multiplex carrier-current. H. Nyquist. 1,684,455; Sept. 18.
Signaling, Railway. R. S. Blair. 1,684,386; Sept. 18.
Signaling system. R. K. Honaman. 1,684,445; Sept. 18.
Sink attachment. R. Panunzi. 1,684,805; Sept. 18.
Skate blades with thickened edges, Manufacture of. H. Dornself. 1,684,950; Sept. 18.
Skis, Power-driven. H. E. Pearson. 1,684,846; Sept. 18.
Skylight. W. Schwartz. 1,684,641; Sept. 18.
Smoking stand. O. C. Kirts. 1,684,589; Sept. 18.
Snowplow. H. F. Flowers. 1,684,439; Sept. 18.
Softening silk yarn, and the like, Apparatus for. H. Mayer. 1,684,923; Sept. 18.
Soil-working implement. H. Olsen. 1,684,594; Sept. 18.
Sole clamp. A. Yosgatt. 1,684,427; Sept. 18.
Sole construction for rubber boots. L. Lorenzi and A. Colombo. 1,684,676; Sept. 18.
Sound and electrical energy, Intertransposition of. N. E. Lindenblad. 1,685,075; Sept. 18.
Sound-generating device. J. Slepian. 1,684,975; Sept. 18.
Sound reproducer. Electromagnetic. W. H. Gerns. 1,685,050; Sept. 18.
Spark intensifier. W. F. Lautenschlager. 1,684,496; Sept. 18.
Spark plug, Valved. J. G. Bowman. 1,685,017; Sept. 18.
Speed mechanism, Variable-. W. G. Humphreys. 1,684,705; Sept. 18.
Speedometer and indicator. W. J. Radke. 1,684,683; Sept. 18.
Spider for sucker rods and the like. E. J. Shaffer. 1,684,974; Sept. 18.
Spool-holding device. J. T. Dowdall. 1,684,951; Sept. 18.
Spraying device. C. Brown. 1,684,661; Sept. 18.
Spring: *See*—
Rail-joint spring.
Spring suspension for motor vehicles. J. F. Adye. 1,684,692; Sept. 18.

Springs, Attachment of motor-vehicle road. D. Robertson. 1,685,005; Sept. 18.
Squeegee and the mounting thereof. J. Demand. 1,684,477; Sept. 18.
Stair construction. E. Hedeen. 1,684,764–5; Sept. 18.
Stair, Metallic. E. Hedeen. 1,684,766; Sept. 18.
Stand: *See*—
Christmas-tree stand. Smoking stand.
Musical-instrument stand.
Stand. N. R. Inglis. 1,684,446; Sept. 18.
Staple. J. B. Crofoot. 1,684,728; Sept. 18.
Steam trap. W. H. Kuhn. 1,684,961; Sept. 18.
Steel and its manufacture. J. R. C. Marsh. 1,684,841; Sept. 18.
Steering mechanism for automobiles, Safety. G. E. Beal. 1,684,657; Sept. 18.
Step plate, Automobile. O. C. Ritz Woller. 1,684,613; Sept. 18.
Stocking. B. D. Gordon. Des. 76,343; Sept. 18.
Stoker, Locomotive. N. M. Lower. 1,684,874; Sept. 18.
Storage apparatus, Motion. E. A. White. 1,684,853; Sept. 18.
Store fixtures for vending merchandise, Self-service. J. T. Myers and J. H. Carroll. 1,684,637; Sept. 18.
Strain equalizer. G. J. Renle. 1,684,687; Sept. 18.
Strand-twisting apparatus. G. A. Bouvier. 1,684,533; Sept. 18.
Strand-twisting apparatus. T. E. O'Donnell. 1,684,511; Sept. 18.
Stranded articles, Method of and apparatus for forming. G. A. Bouvier. 1,684,532; Sept. 18.
Stream motor. P. Buda. 1,684,409; Sept. 18.
Submarine direction finder. W. Rudolph and G. Wolff. 1,684,848; Sept. 18.
Support, Merchandise. C. La Hatte. 1,684,707; Sept. 18.
Support, Switch and signal-rod carrier. O. S. Flath. 1,684,954; Sept. 18.
Surface sander, Motor-vehicle. A. W. Reed. 1,684,806; Sept. 18.
Swimming apparatus. I. D. Perry. 1,684,714; Sept. 18.
Switch: *See*—
Electric switch. Lighting and ignition switch.
High-voltage switch.
Intermittent thermal switch.
Switch apparatus. J. H. Dilks. 1,685,070; Sept. 18.
Switch mechanism. W. R. Huttinger. 1,685,068; Sept. 18.
Switch-operating mechanism. J. H. Dilks. 1,685,069; Sept. 18.
Switch system, Safety. W. C. Davis, jr. 1,684,618; Sept. 18.
Table: *See*—
Extension table. Tension and physiotherapy table.
Foldable table.
Metal table.
Tamping machine. A. J. Penote. 1,684,882; Sept. 18.
Tank attachment, Fuel-. J. H. Collier and E. D. Chisum. 1,684,475; Sept. 18.
Tap changer. G. H. Tuttle. 1,684,650; Sept. 18.
Tapper and protector for toe-dancing shoes. W. J. Haney. 1,684,442; Sept. 18.
Tennis racket. J. L. Kleinman. 1,684,449; Sept. 18.
Tension and physiotherapy table. O. P. Spilman. 1,684,459; Sept. 18.
Terminal, Electric. J. Amon. 1,684,383; Sept. 18.
Tester, Eye. B. D. Ritholz. 1,684,555; Sept. 18.
Testing device, Live-line-. G. A. Iler. 1,684,768; Sept. 18.
Testing device, Live-line and insulator. G. A. Iler. 1,684,798; Sept. 18.
Testing system and method, Electrical. W. P. Mason. 1,684,403; Sept. 18.
Thermal-cut-out construction. J. F. Sloan. 1,684,522; Sept. 18.
Thread cutter for sewing machines. H. L. Willis. 1,684,612; Sept. 18.
Thread-handling mechanism. H. D. Colman. 1,684,945; Sept. 18.
Thread-rolling machine. F. S. Kochendorfer. 1,684,799; Sept. 18.
Tire, Automobile. P. Abrechcinski. 1,685,013; Sept. 18.
Tire carrier and tool kit. F. M. Harsin. 1,684,699; Sept. 18.
Tire-splitting machine. W. G. Fritts. 1,684,763; Sept. 18.
Tires, Device for inspecting. M. Teich. 1,685,038; Sept. 18.
Toilet-powder applicator. A. W. Smith. 1,684,644; Sept. 18.
Tone post. C. Hultgren. 1,684,492; Sept. 18.
Tool, Domestic hand. J. J. Hoelle. 1,684,829; Sept. 18.
Tool, Radius. H. E. Frenette. 1,684,667; Sept. 18.
Tooth, Artificial. L. H. Sprinkle. 1,684,523; Sept. 18.
Torch. S. Stanczyk. 1,684,524; Sept. 18.
Torch, Rotary acetylene. F. J. Cullen, P. E. Binder, and C. C. Harshman. 1,684,476; Sept. 18.
Toy game device. A. Spitzer. 1,684,602; Sept. 18.
Toy locomotive, Bell-ringing. H. S. Becker. 1,684,754; Sept. 18.
Toy roundabout. G. Habicht. 1,684,796; Sept. 18.
Toy transformer. B. H. Smith, A. L. Atherton, and E. H. Greibach. 1,684,746; Sept. 18.
Tracks of street railways, Construction of. G. Oess. 1,684,680; Sept. 18.
Tractor-propelling device, Secondary-. F. Praszkewiz. 1,684,969; Sept. 18.
Transferring carded material, Method of and apparatus for. J. F. Schimek. 1,684,890; Sept. 18.
Transmission device for marine motors. W. C. Esleck. 1,684,952; Sept. 18.
Transportation system, High-speed. W. E. Robertson. 1,685,035; Sept. 18.
Trap: *See*—
Animal trap. Steam trap.
Treating and fractionating cracking-plant vapors. E. H. Leslie and E. M. Baker. 1,684,771; Sept. 18.
Treating fines of earthly minerals. R. W. Hyde. 1,684,958; Sept. 18.
Treating garbage and the like. R. P. Kinkel. 1,684,448; Sept. 18.
Treating petroleum products. E. R. Wiles. 1,684,426; Sept. 18.
Treating slack wax. B. L. Souther and W. A. Gruse. 1,685,008; Sept. 18.
Treating slack wax. B. L. Souther and W. A. Gruse. 1,685,058; Sept. 18.
Truck. T. C. Holtnagel. 1,684,673; Sept. 18.
Turbine, Gas. J. M. Hawthorn. 1,684,824; Sept. 18.
Turntable, Overhead runway. M. C. Gillies. 1,684,986; Sept. 18.
Typewriting machine. W. A. Dobson. 1,684,820; Sept. 18.
Typewriting machine. L. A. Nemcovsky. 1,684,801; Sept. 18.
Umbrella. O. Jensen. 1,684,628; Sept. 18.
Universal bar. J. H. Barr. 1,684,430; Sept. 18.
Vacuum discharge apparatus. W. Daumann. 1,684,947; Sept. 18.
Vacuum tubes, Contact-protecting means for. S. G. Sears. 1,684,973; Sept. 18.
Valve. S. C. Lawlor. 1,684,837; Sept. 18.
Valve. H. L. Stephenson. 1,684,603; Sept. 18.
Valve. C. A. G. Wayman and A. F. Gartz, jr. 1,684,651; Sept. 18.
Valve-actuating device, Poppet-. W. M. Goodwin. 1,684,955; Sept. 18.
Valve, Check. G. E. Hazard. 1,684,987; Sept. 18.
Valve mechanism. W. B. S. Whaley, C. A. Muller, and C. M. Tursky. 1,684,424; Sept. 18.
Valve mechanism for internal-combustion engines, Rotary. G. E. Hottenstein and G. E. Hottenstein, jr. 1,684,767; Sept. 18.
Valve, Quick-throw. W. B. Bastian. 1,684,905; Sept. 18.
Valves and the like, Adjustable locking device for. C. W. Roberts, jr. 1,684,745; Sept. 18.
Vanity case. H. W. Noyes. 1,684,454; Sept. 18.
Vehicle alarm. A. V. Locke. 1,684,591; Sept. 18.
Vehicle heater, Motor-. D. Hill. 1,684,672; Sept. 18.
Vehicle heater, Motor-. E. Ryder. 1,684,599; Sept. 18.
Vending machine. M. G. O'Neil. 1,684,409; Sept. 18.
Vibration-absorbing element. E. S. Marks. 1,684,773; Sept. 18.
Wall-board reenforcement. C. O. Walper. 1,684,899; Sept. 18.
Wall-form tie structure. W. E. Baumberger. 1,684,382; Sept. 18.
Warm-air furnace. H. W. French. 1,684,914; Sept. 18.
Water and carbide can. A. Kozak. 1,684,996; Sept. 18.
Water heater. W. V. Kraft. 1,684,997; Sept. 18.
Water-treatment apparatus. W. H. Green. 1,684,822; Sept. 18.
Water-tube boiler. L. Steinmüller. 1,684,691; Sept. 18.
Wave lengths for wireless receivers, Apparatus for automatic regulation of different. F. W. M. L. Scheerbarth. 1,684,519; Sept. 18.
Wave motion, Device for the production of. H. G. Dorsey. 1,684,759; Sept. 18.
Wax-melting apparatus. C. Methfessel. 1,684,710; Sept. 18.
Weather strip. F. B. Snavely. 1,684,646; Sept. 18.
Weeder, Rotary rod. N. Jackson. 1,684,992; Sept. 18.
Weel made of netting. F. W. H. Toppe. 1,684,564; Sept. 18.
Welding machine, Arc. C. A. Bowlus. 1,684,726; Sept. 18.
Wheel: *See*—
Disk wheel. Resilient wheel.
Grinding wheel. Sectional wheel.
Plow wheel.
Winch for tractors, Power. C. R. Appleby. 1,684,857; Sept. 18.
Window. J. Brogden. 1,685,060; Sept. 18.
Window cornice. A. S. Newmark. 1,684,843; Sept. 18.
Window screen. A. Jaroch. 1,685,027; Sept. 18.
Windshield cleaner. F. H. Blake, 2d. 1,684,907; Sept. 18.
Windshield cleaner. S. G. Skinner. 1,684,850; Sept. 18.
Wiper. N. S. Hillyard. 1,684,625; Sept. 18.
Wiper, Windshield. S. G. Van Derbeck. 1,685,037; Sept. 18.
Wire clamp. C. J. Weller. 1,684,784; Sept. 18.
Wire puller and twister for concrete framework. T. J. Howson. 1,684,797; Sept. 18.
Wire reel. A. Schwindenhammer. 1,685,007; Sept. 18.
Wire tying or twisting device. A. E. Bass. 1,684,723; Sept. 18.
Wireworking device for stitching machines. E. Leschhorn. 1,684,838; Sept. 18.
Wood, Apparatus for drying. J. F. and J. T. Hope. 1,684,627; Sept. 18.
Wood-chipping machine. J. Rae. 1,684,411; Sept. 18.
Zircon refractories, Manufacture of. L. H. Minton. 1,684,739; Sept. 18.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 18, 1928.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 18: 1,684,390
2— 120: 1,684,876
176: 1,684,670
190: 1,684,610
3— 2: 1,684,921
4— 145: 1,684,502
1,684,503
255: 1,684,880
5— 21: 1,684,851
1,684,936
6— 10: 1,685,021
7— 1: 1,684,622
8— 6: 1,684,401
1,684,881
9— 21: 1,684,714
12— 38: 1,684,427
15— 120: 1,684,460
195: 1,684,835
198: 1,684,481
206: 1,684,631
229: 1,684,379
245: 1,684,625
246: 1,684,604
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255: 1,684,477
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16— 83: 1,685,023
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93: 1,684,706
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44: 1,684,935
61: 1,684,782
78: 1,684,758
119: 1,684,448
230: 1,684,645
260: 1,684,494
24— 19: 1,684,666
72.5: 1,684,443
73: 1,685,020
137: 1,684,721
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216: 1,685,055
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1,685,062
1,685,063
237: 1,684,580
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25— 30: 1,684,858
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29— 88.2: 1,684,717
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116— 51: 1,684,916
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171— 119: 1,684,745
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173— 259: 1,684,985
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83: 1,684,776
181— 0.5: 1,684,759
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184— 6: 1,684,910

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229—	15:	1,684,458	244—	2:	1,684,818	255—	45:	1,684,514	267—	54:	1,684,724	288—	1:	1,684,656		61:	1,684,877
	41:	1,685,016		6:	1,684,730		71:	1,684,462			1,685,005	291—	3:	1,684,806		123:	1,684,913
230—	55:	1,684,468		10:	1,684,425		72:	1,685,045		64:	1,685,077	292—	74:	1,684,636		157:	1,684,637
	100:	1,684,791		12:	1,685,014	257—	2:	1,684,509	268—	55:	1,684,893		290:	1,684,814			
	205:	1,684,395		15:	1,685,029		24:	1,684,406		65:	1,684,704		278:	1,684,790			
	246:	1,684,601	246—	72:	1,684,754		43:	1,684,959	270—	65:	1,684,901		347:	1,684,499			
232—	17:	1,684,384		166:	1,684,386		137:	1,684,380		68:	1,684,903	294—	22:	1,684,529			
	25:	1,684,513		219:	1,684,618		241:	1,684,967	271—	27:	1,684,741		44:	1,684,775			

Patents Nos. 1,685,078 to 1,685,769.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 374—No. 4. TUESDAY, SEPTEMBER 25, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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Labels	40—No.	34,607 to No.	34,646,	inclusive.
Prints	10—No.	11,234 to No.	11,243,	inclusive.
Reissues	4—No.	17,087 to No.	17,090,	inclusive.
Designs	80—No.	76,367 to No.	76,446,	inclusive.
Patents	692—No.	1,685,078 to No.	1,685,769,	inclusive.
Total	1,226			

Changes in Classification.

Order No. 3,060, September 7, 1928, directs:

In *class 29, Metal Working* (Division 14), establish the following subclasses and definitions, the patents contained in these subclasses having been taken for the most part from various subclasses in class 29:

Blanks and processes
- Carriage irons
  - 153.1 Axle housings,
- Fluid motors
  - Pistons and pitmen
    - Packing rings
      - 156.61 Forging,
      - 156.62 Severing,
      - 156.63 Surface cutting,
- Gas and water
  - 157.1 Valves,
  - 157.3 Radiators,
- Pulleys and wheels
  - 159.1 Tires and rims,
  - 159.2 Gears,
  - 159.3 Hubs.

153.1. BLANKS AND PROCESSES, CARRIAGE IRONS, AXLE HOUSINGS. Blanks and processes for making axle housings.

156.61. BLANKS AND PROCESSES, FLUID MOTORS, PISTONS AND PITMEN, PACKING RINGS, FORGING. Blanks and processes for making piston rings in which the metal is compacted or set by forging.

156.62. BLANKS AND PROCESSES, FLUID MOTORS, PISTONS AND PITMEN, PACKING RINGS, SEVERING. Blanks and processes for making piston rings by severing the ring.

156.63. BLANKS AND PROCESSES, FLUID MOTORS, PISTONS AND PITMEN, PACKING RINGS, SURFACE CUTTING. Blanks and processes for making piston rings characterized by forming or setting the rings by cutting the surfaces.

157.1. BLANKS AND PROCESSES, GAS AND WATER, VALVES. Blanks and processes for making valves for gas or liquid control.

157.3. BLANKS AND PROCESSES, GAS AND WATER, RADIATORS. Blanks and processes especially adapted for making radiators.

Search Class
113—SHEET-METAL WARE, MAKING, subclass 118, Processes, Radiators.

159.1. BLANKS AND PROCESSES, PULLEYS AND WHEELS, TIRES AND RIMS. Blanks and processes for forming tires and rims, except those for railway-car wheels.

159.2. BLANKS AND PROCESSES, PULLEYS AND WHEELS, GEARS. Blanks and processes especially adapted for making gears.

159.3. BLANKS AND PROCESSES, PULLEYS AND WHEELS, HUBS. Blanks and processes especially adapted for making wheel hubs.

In *class 29, Metal Working* (Division 14), change the title of subclass 157.4, Blanks and processes, Gas and water, Boilers, radiators, headers, and tubes, to read:

Blanks and processes
Gas and water
157.4 Boilers, headers, and tubes,

and cancel the word "radiators" in the first line of the definition; change the title of subclass 159, Blanks and processes, Gears, pulleys, tires, and wheels, to read:

Blanks and processes
159 Pulleys and wheels,

and in subclass 148.4, Blanks and processes, Balls, rolls, and cages, add to the definition the following note:

Note.—See class 112, SHEET-METAL WARE, MAKING, subclass 117, Processes, Bearing cages.

In *class 113, Sheet-Metal Ware, Making* (Division 14), establish the following subclasses and definitions, the patents contained in these subclasses having been taken for the most part from class 113, subclass 116, Processes:

Processes
117 Bearing cages,
118 Radiators.

117. PROCESSES, BEARING CAGES. Processes coming under subclass 116 for making bearing cages from sheet metal.

Search Class
29—METAL WORKING, subclass 148.4, Blanks and processes, Balls, rolls, and cages.

118. PROCESSES, RADIATORS. Processes coming under subclass 116 for making radiators from sheet metal.

Search Class
29—METAL WORKING, subclass 157.3, Blanks and processes, Gas and water, Radiators.

In *class 211, Supports, Racks* (Division 8), in the definition of subclass 133, Tray or receptacle type, Stands, cancel the existing note and establish in lieu thereof, the following:

Note.—For stands combined with ash trays and tobacco-users' appliances see class 131, TOBACCO, subclass 51, Cigar supports and stands.

Condition of Applications Under Examination at Close of Business September 14, 1928.

(Total number of applications awaiting action, exclusive Trade-Mark Division, 113,085; Trade-Mark Division, 1,940. Oldest new case, Nov. 15, 1927; oldest amended, Nov. 15, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	†Jan. 27	†Jan. 30	1,568
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	†Jan. 25	†Feb. 4	1,703
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Dec. 21	†Jan. 16	1,568
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Nov. 22	Nov. 28	1,625
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Dec. 6	Dec. 8	1,565
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Dec. 16	Dec. 27	2,552
106	7. JARBOE, C. G., Optics; Photography	Dec. 1	Dec. 1	2,013
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	†Feb. 9	†Feb. 27	1,686
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Mar. 15	†Mar. 12	1,761
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Dec. 27	†Jan. 14	1,556
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Feb. 24	†Feb. 1	983
380	12. PIERCE, P. P., Machine Elements	†Jan. 28	†Jan. 9	2,017
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Jan. 13	Dec. 14	1,495
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Dec. 16	Dec. 17	1,248
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 22	†Jan. 5	2,494
242*	16. SPENCER, C. J., Telegraphy; Telephony	†Feb. 21	†Jan. 23	1,162
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Dec. 8	†Feb. 3	1,537
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 12	Dec. 19	1,644
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	†Jan. 6	†Jan. 3	1,908
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	†Mar. 23	†Mar. 17	1,492
212	21. THURBUR, W. L., Textiles; Cloth Finishing	Dec. 22	†Feb. 4	1,090
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Dec. 8	Dec. 19	1,635
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Nov. 19	Nov. 29	1,132
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Dec. 7	Dec. 13	1,539
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Feb. 6	†Feb. 25	1,714
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	†Jan. 6	†Jan. 7	1,210
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Feb. 2	†Feb. 3	1,455
225	28. BENSON, A. R., Internal-Combustion Engines	Dec. 8	Dec. 14	2,005
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	†Jan. 20	†Jan. 11	1,197
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 11	†Mar. 6	1,458
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	†Jan. 5	†Jan. 6	2,164
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Dec. 23	Dec. 15	2,196
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Apr. 6	†Apr. 6	1,949
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Nov. 30	Dec. 1	1,445
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	†Mar. 15	†Mar. 22	1,663
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Feb. 20	†Feb. 7	2,069
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 7	†Jan. 20	2,237
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Feb. 6	†Feb. 8	1,917
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 23	Nov. 19	1,908
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Dec. 23	Dec. 5	2,698
128	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	†Jan. 4	†Jan. 30	1,472
223*	42. CUTTING, H. O., Electric Signaling	Dec. 8	†Jan. 9	1,674
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	†Jan. 6	†Feb. 11	2,241
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	†Jan. 9	†Jan. 10	2,161
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Dec. 12	Dec. 15	2,481
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Dec. 1	Dec. 1	1,906
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	†Jan. 7	†Jan. 17	2,084
212*	48. ROEPKE, O. B., Electricity, General Applications	†Jan. 16	†Jan. 9	1,590
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Dec. 1	†Jan. 19	1,580
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	†Jan. 11	†Jan. 12	2,599
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	†Jan. 4	†Jan. 3	2,299
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	†Jan. 23	†Jan. 20	2,210
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	†Jan. 16	†Jan. 16	1,796
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Dec. 30	Dec. 30	2,400
102	55. BOWEN, S. T. {Bread, Pastry, and Confection Making; Cutlery {Designs	Dec. 15	Dec. 22	902
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	†July 18	†Aug. 15	645
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Nov. 15	Nov. 15	2,641
270*	58. DOWELL, E. F., Abrading; Typewriting	†Jan. 4	†Jan. 14	1,200
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	Nov. 15	Nov. 22	1,464
213*	60. GLASS, R. L., Electricity; Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Dec. 6	Dec. 7	2,501
260	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Nov. 23	Dec. 9	1,638
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	Dec. 3	Dec. 1	2,164
168	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks {Labels and Prints	Dec. 6	Dec. 17	2,765
		†Aug. 15	†Aug. 28	1,752
		†Aug. 14	†Sept. 1	188

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

IN RE VISSERING.

No. 2,006. Decided March 5, 1928.

PATENTABILITY—INVENTION—SELECTION OF VARIOUS FEATURES FROM PRIOR ART NOT.

A claim for a brake step *Held* unpatentable since applicant had done nothing more than select various features from patents of the prior art and unite them in a single structure possessing no new or improved function as a result of such assemblage.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. H. H. Benjamin and *Mr. J. T. Bassecches* for Vissering.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

VAN ORSDEL, *J.*:

This appeal is from the Commissioner of Patents rejecting appellant's application for a patent for a car-brake step described in the following claim:

1. A brake step adapted to be secured to a car body and having a shelf portion adapted to act as a rest for the foot and provided with an abutment portion comprising a plurality of continuous spaced pressed portions.

The step is Z-shaped in cross section, and supported by V-shaped brackets. It is made of pressed sheet metal provided with corrugations on the upper surface to prevent the user from slipping.

In the opinions of the tribunals of the Patent Office, the construction upon which the patent is sought is clearly pointed out in three references relied upon, and from an examination of the prior art we agree with the Commissioner—

that applicant has done no more than pick out one feature from one patent, another from another, and so on, and unite them in a single structure. The step possesses no new or improved function as a result of such assemblage of old features.

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

IN RE ERICKSON.

No. 2,009. Decided March 5, 1928.

PATENTABILITY—INVENTION.

Claims for an elbow pad for use with a desk telephone *Held* unpatentable, since no invention exists in so using a cushion for an elbow rest in view of the universal use of cushions for various analogous purposes.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. J. F. Williamson and *Mr. O. C. Reif* for Erickson.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, VAN ORSDEL, Associate Justice, and SMITH, Judge of the U. S. Court of Customs Appeals.

VAN ORSDEL, *J.*:

This appeal is from the decision of the Commissioner of Patents denying the application of appellant for a patent for a telephone elbow rest.

The application discloses an elbow pad for use in connection with a desk telephone. The pad is connected to the telephone by an elastic band provided with snap button fasteners for securing the end of the band around the telephone standard. The patent was rejected upon two references. But without stopping to consider these references, we are of opinion that the application should be rejected on the broader ground that no invention exists in the using of a cushion for an elbow rest in connection with a telephone, as is disclosed in this case, for the reason that the universal use of cushions for various purposes, analogous to the use here suggested, is lacking in inventive initiative.

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

F. HOFFMAN & SONS, INC., *v.* H. B. HUNTER COMPANY, INC.

No. 2,016. Decided March 5, 1928.

TRADE-MARKS—SIMILARITY—"C-HOC-O," AND "CHOCO-SIP."

The term "C-hoc-O," used as a trade-mark for nonalcoholic carbonated beverages, *Held* deceptively similar to the term "Choco-Sip," used as a trade-mark for the same goods.

APPEAL from the Commissioner of Patents. Reversed.

Mr. Donald U. Rich and *Mr. Chas. R. Allen* for F. Hoffman & Sons, Inc.

Mr. Wm. L. Symons for H. B. Hunter Co., Inc.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice and SMITH, Judge U. S. Court of Customs Appeals

VAN ORSDEL, *J.*:

This is a trade-mark cancellation proceeding brought by appellant company, to secure the cancellation of the registration of the word "C-hoc-O" as a trade-mark for nonalcoholic, maltless, carbonated beverages, sold as soft drinks. The petitioner claims that it is damaged by use of the mark through confusion with its registered trade-mark "Choco-Sip."

Priority is conceded petitioner in the use of its mark. It is not denied that the goods of the respective parties are substantially identical. The only question for determination is whether or not the trade-marks are confusingly similar, within the meaning of the statute.

The Examiner of Interferences found that the marks were so similar as to be likely to lead to confusion; and directed the cancellation of appellee company's registration. This decision was reversed by the Commissioner of Patents, and from his decision this appeal was taken.

We find little difficulty in sustaining the decision of the Examiner. The suffix "Sip" indicates a beverage, and the prefix "Choco" indicates the quality of beverage. The evidence discloses that "Choco-Sip" is frequently ordered by the name choco. We are not impressed with the contention that the

hyphen marks in "C-hoc-O" distinguish the word either in pronunciation or appearance to the extent of removing the probability of confusion. The manner in which the word is written leaves the hyphens obscure and unimportant factors in the make up of the mark. As said by the Examiner:

Especially is this true when it is considered that the letter spacing in respondent's trade-mark is not substantially different from that of a word in which no hyphens appear.

In view of the evidence as to probable confusion, and also from the close similarity of the marks, we are convinced that the conclusion reached by the Commissioner is erroneous.

The decision of the Commissioner is reversed.

Court of Appeals of the District of Columbia.

LOVEJOY *v.* SHULTZ.

No. 2,037. Decided May 7, 1928.

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS. Priority *Held* properly awarded to S. over an objection that his structure was inoperative and utterly lacking in usefulness since, while a certain result was not primarily contemplated by him, "it was nevertheless inherent in his disclosure, and required only mechanical skill to make the device effective for that purpose."

APPEAL from the Commissioner of Patents. Affirmed.

Mr. F. A. Tennant and *Mr. C. E. Riordon* for Lovejoy.

Mr. John S. Powers for Shultz.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.*:

Shultz is the senior party. Lovejoy, the junior party, denies that Shultz is entitled to make the counts of the interference, claiming that the Shultz structure as disclosed in the application is inoperative and utterly lacking in usefulness.

The issue is stated in four counts of which count 1 is illustrative, reading as follows, to wit:

1. A shock absorber adapted to be arranged between two relatively movable members, comprising a cylinder adapted to be connected with one of said members, a piston arranged in said cylinder and adapted to be connected with the other member, and a liquid reservoir, said piston having a port and said cylinder having a port leading to said reservoir, said ports being adapted to register and place said cylinder and reservoir in communication with each other during the central part of the stroke of said piston in the cylinder but to cut off communication through these ports between the cylinder and reservoir when the piston is at either end of its stroke.

It thus appears that the invention relates to an improvement in automobile shock absorbers of the hydraulic reciprocating piston type. Such a shock absorber consists of a casing containing a cylinder and a fluid reservoir, separated from one another by a partition, but intercommunicating at the top. A piston with a downward skirt moves in the cylinder, and its action is in some measure regulated or controlled by two valve-equipped ports located between the cylinder and the fluid reservoir. One of the ports freely permits the flow of the fluid from the reservoir into the cylinder, but automatically prevents a reverse flow of the fluid; whereas the other by means of a spring-regulated valve permits the fluid to flow from the cylinder to the reservoir. The piston is attached by a projecting arm to the axle of the car, and the casing is attached to the car's body; accordingly, the regulation of the relative movements of the piston and casing serves to absorb the shocks produced by sharp depressions or elevations in the roadway.

Shultz sought to improve upon this construction by providing an open port in the skirt of the piston and a similar port in the partition between the cylinder and oil reservoir, the two ports being so located as to register when the piston is at a normal position. Shultz stated in his application that the ports were—

so designed that the same offers practically no resistance while the relatively moving parts of the car are in their neutral position and thus permits the springs of the car to carry the load easily and freely and without interference from the shock absorber.

At first the diameter of each port was $\frac{1}{4}$th of an inch, but later it was reduced to $\frac{1}{8}$th.

Lovejoy contends that this device is inoperative for any satisfactory purpose because the ports as disclosed are too large to offer any resistance to the movement of the piston when they are in registration. Lovejoy claims that the flow of the fluid through the registering ports would be so little impeded as to offer substantially no resistance to the downward movement of the piston, and consequently would not function to absorb shocks but would prove to be an actual disadvantage. The application filed by Lovejoy is based upon ports essentially similar to those of Shultz, except that they are smaller in size. Lovejoy claims that the ports provided by him will absorb such shocks as occur when the springs are only slightly flexed, leaving the greater shocks to be absorbed as otherwise provided for.

The tribunals of the Patent Office however have unanimously held that the Shultz improvement actually results to a useful extent in reducing or absorbing the minor shocks incident to slight irregularities in the traveled roadway; and that it is not inoperative. Priority of invention, therefore, has been awarded to Shultz by their concurrent decisions. A review of the record convinces us that while this result was not primarily contemplated by Shultz, it was nevertheless inherent in his disclosure, and required only mechnical skill to make the device effective for that purpose. We therefore agree with the conclusions of the Patent Office that the Shultz improvement is not inoperative.

The decision of the Commissioner of Patents is affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

989,939, W. E. Allington, Dust collector, filed Mar. 30, 1928, D. C., E. D. N. Y., Doc. 3608, *W. E. Allington et al. v. Estate of S. Weinstein.* Discontinued June 18, 1928.

1,018,502, Just & Hanaman, Incandescent body for electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, filed July 17, 1928, D. C., S. D. Calif. (Los Angeles), Doc. O—1—M. *General Electric Co. v. G. Hohenstein et al.* Same, D. C., E. D. N. Y., Doc. 3663, *General Electric Co. v. J. Dishkin et al. (Spears Sales Co.).* Decree pro confesso with reference against Dishkin, dismissed as to J. Wettlin, July 14, 1928. Same, filed July 20, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2158–L, *General Electric Co. v. Eckert Lloyd Corp. et al.*

1,108,184, T. Kerner, Garbage or refuse incinerator, C. C. A., 6th Cir., Doc. 4963, *Townsend Estates, Inc., et al. v. Kerner Incinerator Co.* Affirmed June 30, 1928.

1,142,361, G. Ornstein, Process of antiseptic izing water, filed May 18, 1928, D. C., E. D. N. Y., Doc. 3675, *Electro Bleaching Gas Co., et al. v. Greenport Sewage Disposal Co.*

1,180,159. (See 1,018,502.)

1,191,306 (*a*), 1,221,800, T. A. Hoover, Bumper for vehicles; 1,198,246, G. A. Lyon, Buffer for motor vehicles, D. C., E. D. N. Y., Doc. 3626, *American Chain Co., Inc., v. Long Island Star Co., Inc., et al.* Dismissed July 20, 1928. Doc. 3615, *American Chain Co., Inc., v. Willys-Overland, Inc. et al.* Dismissed as to Mather Spring Co. June 2, 1928.

1,191,306 (*b*), 1,221,800, T. A. Hoover, Bumper for vehicles, filed May 26, 1928, D. C., E. D. N. Y., Doc. 3687, *American Chain Co., Inc., v. Bethlehem Bumper Co., Inc. et al.*

1,198,246. (See 1,191,306 (*a*).)

1,221,800. (See 1,191,306 (*a*) and (*b*).)

1,266,210, H. E. Campbell, Support for steam radiator, filed June 26, 1928, D. C., E. D. N. Y., Doc. 3754, *Campbell Metal Window Corp. v. W. H. Jackson Co.*

1,307,733, A. B. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed June 12, 1928, D. C., E. D. N. Y., Doc. 3730, *The Bassick Mfg. Co. v. A. J. Sasen.* Doc. 3731, *The Bassick Mfg. Co. v. E. Bohneer.* Doc. 3732, *The Bassick Mfg. Co. v. J. Hofer, Inc.* Doc. 3734, *The Bassick Mfg. Co. v. N. A. Carpenters.* Doc. 3735, *The Bassick Mfg. Co. v. Hydrade Machine Products Mfg. Co.* Doc. 3736, *The Bassick Mfg. Co. v. A. Munos Nevins Machine Works).* Doc. 3733, *The Bassick Mfg. Co. v. J. Hassell, Inc.*

1,307,734. (See 1,307,733.)

1,313,209, F. W. Robison, Process of treating coffee, filed May 22, 1928, D. C., E. D. N. Y., Doc. 3686, *Coffee Research Co. v. Besson & Robinson Co.*

1,392,844, A. L. Merolle, Cap-threading machine, filed May 3, 1928, D. C., E. D. N. Y., Doc. 3667, *A. L. Merolle et al v. Anchor Cap & Closure Corp.* Same, filed May 31, 1928, D. C., E. D. N. Y., Doc. 3701, *A. L. Merolle et al. v. American Metal Cap Co., Inc.* Same, filed June 6, 1928, D. C., E. D. N. Y., Doc. 3706, *A. L. Merolle et al. v. F. Gutman & Co.*

1,441,061, O. P. Cadmus, Plywood, filed May 22, 1928, D. C., E. D. N. Y., Doc. 3677, *O. P. Cadmus v. C. W. Morgenthaler.*

1,473,756, J Brogden, Pipe-Bending machine; 1,479,204, T. F. Oechsle, same, D. C., E. D. N. Y., Doc. 3582, *D. Lupton's Sons Co. v. M. Husid.* Decree for plaintiff June 14, 1928.

1,479,204. (See 1,473,756.)

1,554,163, C. Lipper, Bandeaux, filed June 30, 1928, D. C., E. D. N. Y., Doc. 3756, *Lipper Mfg. Co., Inc., v. Glemby's Sons Co., Inc., et al.*

1,559,474, J. Teruya, Amusement apparatus, filed June 15, 1928, D. C., E. D. N. Y., Doc. 3745, *J. Teruya v. B. Harris et al.*

1,594,047, E. F. Clark, Pocket cigar lighter, filed June 12, 1928, D. C., E. D. N. Y., Doc. 3737, *Clark Lighter Co., Inc., v. A. Pollak.*

1,601,146, J. B. Replogle, Switch, filed June 28, 1928, D. C., E. D. N. Y., Doc. 3753, *Delco-Remy Corp. v. Wellworth Automotive Corp.*

1,601,575, L. C. Marshall, Piston packing, D. C., E. D. N. Y., Doc. 3662, *The Simplex Piston Ring Co. of America, Inc., v. J. Bindrim (Motor Parts).* Dismissed June 9, 1928.

Doc. 3663, *The Simplex Piston Ring Co. of America, Inc., v. H. Parsons (Ready Auto Parts).* Decree as above. Doc. 3664, *The Simplex Piston Ring Co. of America, Inc., v. S. Shapiro (Shapiro Auto Parts).* Doc. 3665, *The Simplex Piston Ring Co. of America, Inc., v. R. Cavallier (Auto & Electric Supply).* Doc. 3666, *The Simplex Piston Ring Co., Inc., v. L. Lowenstein (L. & S. Auto Supply).* Dismissed June 9, 1928.

1,646,095, T. J. Junker, Game device, filed June 5, 1928, D. C., E. D. N. Y., Doc. 3703, *T. J. Junker v. M. Cohen et al.*

1,657,469, D. M. Heston, Grease pump, filed July 25, 1928, D. C., S. D. Ohio, W. Div., Doc. E 552, *D. M. Heston v. R. M. Hollingshead Co. et al.*

1,658,804, 1,658,805, L. L. Jones, Capacitive coupling-control system, filed May 14, 1928, D. C., E. D. N. Y., Doc. 3673, *L. L. Jones v. Walthal Electric Co., Inc.* Doc. 3674, *L. L. Jones v. Freed-Eisemann Radio Corp.*

1,658,805. (See 1,658,804.)

1,673,727, L. V. Aronson, Cigar lighter, filed June 21, 1928, D. C., E. D. N. Y., Doc. 3752, *Art Metal Works, Inc., v. Abraham & Straus, Inc.*

Re. 15,889, J. R. Tackett, Brick machine, C. C. A., 6th Cir., Doc. 4800, *Ashland Fire Brick Co. v. General Refractories Co.* Reversed June 16, 1928.

Des. 43,459, Kellner & Worms, Knitted necktie, D. C., S. D. N. Y., Doc. E 39/215, *Franklin Knitting Mills, Inc., v. J. Kessner et al. (Kessner & Rubin).* Consent order of discontinuance July 21, 1928. Doc. E 39/223, *Franklin Knitting Mills, Inc., v. Hudson Men's Shop, Inc.* Decree as above. Doc. E 39/225, *Franklin Knitting Mills, Inc., v. B. Green.* Decree as above. Doc. E 39/252, *Franklin Knitting Mills, Inc., v. F. Weinrich et al.* Decree as above. Doc. E 39/254, *Franklin Knitting Mills, Inc., v. J. J. Margolin et al. (Ideal Men's Shop).* Decree as above. Doc. E 39/291, *Franklin Knitting Mills, Inc., v. Standard Neckwear Co.* Decree as above. Doc. E 40/6, *Franklin Knitting Mills, Inc., v. I. Storper.* Decree as above. Doc. E 40/7, *Franklin Knitting Mills, Inc., v. S. Ostrovsky et al. (Saul & Meyers Men's Shop).* Decree as above. Doc. E 40/10, *Franklin Knitting Mills, Inc., v. M. Stroper.* Decree as above. Doc. E 40/11, *Franklin Knitting Mills, Inc., v. A. Mensin et al. (Mensin Shirt Co.).* Decree as above. Doc. E 40/16, *Franklin Knitting Mills, Inc., v. G. Holstein, Inc.* Decree as above. Doc. E 40/86, *Franklin Knitting Mills, Inc., v. J. G. Barbieri (Belmonte Shirt Shop).* Decree as above.

Des. 67,018, J. Denaro, Edible container, D. C., E. D. N. Y., Doc. 3521, *American Pastry Products Corp. v. D. Siegler.* Decree for plaintiff June 11, 1928.

Des. 75,242, A. J. Heinke, Textile fabric, filed June 2, 1928, D. C., E. D. N. Y., Doc. 3702, *H. R. Mallinson & Co., Inc., v. D. H. Brandt et al. (The Beverly Style Shop).* Doc. 3704, *H. R. Mallinson & Co., Inc., v. Bedell Bros., Inc.* Order of discontinuance July 12, 1928.

Des. 75,287, L. W. Rice, Table lighter, filed June 27, 1928, D. C. Mass., Doc. E 2988, *B. Rice's Sons, Inc., v. Evans Case Co.*

Interference Notice.

U. S. PATENT OFFICE, *Washington, Sept. 13, 1928.*

Alice L. Lynch, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of John L. Lombardo, 59–61 Broadway, Buffalo, N. Y., for registration of a trade-mark and trade-mark registered July 3, 1923, No. 169,843, to Alice L. Lynch, of 442 West Forty-Third Street, New York, N. Y., and a notice of such declaration sent by registered mail to the said Alice L. Lynch at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Alice L. Lynch, her assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. J. MOORE,
First Assistant Commissioner.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,508,989, G. A. Roth, Luggage carrier, decided August 1, 1928, claims 17 and 18.

Pat. 1,577,981, W. Otto, Resistance element, decided August 3, 1928, claims 1, 13, 14, and 15.

Pat. 1,585,244, W. H. Hoffman, Short-wave-length transmitter, decided August 13, 1928, claim 4.

Pat. 1,644,084, E. A. Reinke, Designation device, decided August 18, 1928, claims 1 to 7, inclusive.

Pat. 1,661,762, H. Kreidel, Direction indicator for vehicles, decided August 6, 1928, claims 1 and 2.

Final decision in interference has been rendered against the following trade-mark:

T. M. 152,921, Wheat flour, The Oklahoma Mill Co., Kingfisher, Okla. Registered March 7, 1922. Decided August 3, 1928.

Disclaimers.

1,380,348.—*Ray M. Brown*, Yonkers, N. Y. CONTROLLING MECHANISM FOR BOOSTER MOTORS. Patent dated June 7, 1921. Disclaimer filed August 29, 1928 by the assignees, *Howard L. Ingersoll*, the *Locomotive Booster Company*, and *Franklin Railway Supply Company* (assignees not recorded).

Hereby enter this disclaimer to that part of the claims in said specification which are in the following words, to wit:

"3. In combination with a locomotive having a propelling gear wheel, a booster motor, a gear wheel driven thereby, a pinion intermediate said gear wheels, a rocking member on one end of which said pinion is mounted, and means for rocking said member to entrain the pinion with said first named gear wheel.

"4. In combination with a locomotive having a propelling gear wheel, a booster motor, a gear wheel driven thereby, a pinion intermediate said gear wheels, a rocking member on one end of which said pinion is mounted, and means for rocking said member to entrain the pinion with said first named gear wheel; the rocking member and pinion being constructed and arranged so that gravity tends to move the pinion out of mesh with said first named gear wheel."

1,395,362.—*Charles F. Rubsam*, Cleveland, Ohio. VEHICLE WHEEL. Patent dated November 1, 1921. Disclaimer filed August 23, 1928 by the assignee, *Rubsam Corporation*.

Hereby enters this disclaimer, to wit:

(1) To the combination of claim 1, except where in such combination, there are circumferentially-extending clearances or spaces between the rim and the wheel body at the points necessary to permit the inner side of the rim to clear the outer side of the wheel body when the rim is swung transversely onto the wheel body and to permit the rim, when it has been placed on the body, to be concentrically spaced around the body, by the bearing members.

(2) To the combination of claim 2, except where in such combination, there are circumferentially-extending clearances or spaces between the rim and the wheel body at the points necessary to permit the inner side of the rim to clear the outer side of the wheel body when the rim is swung transversely onto the wheel body and to permit the rim, when it has been placed on the body, to be concentrically spaced around the body, by the bearing members.

(3) To the combination of claim 3, except where in such combination, there are circumferentially-extending clearances or spaces between the rim and the wheel body at the points necessary to permit the inner side of the rim to clear the outer side of the wheel body when the rim is swung transversely onto the wheel body and to permit the rim, when it has been placed on the body, to be concentrically spaced around the body, by the bearing members.

(4) To the combination of claim 4, except where in such combination, there are circumferentially-extending clearances or spaces between the rim and the wheel body at the points necessary to permit the inner side of the rim to clear the outer side of the wheel body when the rim is swung transversely onto the wheel body and to permit the rim, when it has been placed on the body, to be concentrically spaced around the body, by the bearing members.

(5) To the combination of claim 5, except where in such combination, there are circumferentially-extending clearances or spaces between the rim and the wheel body at the points necessary to permit the inner side of the rim to clear the outer side of the wheel body when the rim is swung transversely onto the wheel body and to permit the rim, when it has been placed on the body, to be concentrically spaced around the body, by the bearing members.

(6) To the combination of claim 6, except where in such combination, there are circumferentially-extending clearances or spaces between the rim and the wheel body at the points necessary to permit the inner side of the rim to clear the outer side of the wheel body when the rim is swung transversely onto the wheel body and to permit the rim, when it has been placed on the body, to be concentrically spaced around the body, by the bearing members.

1,547,155.—*Howard L. Ingersoll*, White Plains, N. Y. BOOSTER MOTOR FOR LOCOMOTIVES. Patent dated July 21, 1925. Disclaimer filed August 29, 1928, by the patentee and assignees (not recorded), *Locomotive Booster Company* and *Franklin Railway Supply Company*.

Hereby enter this disclaimer to that part of the claims in said specification which are in the following words, to wit:

"1. The combination with a locomotive having main driving wheels and means for driving the same, of normally idle wheels carrying part of the weight of the locomotive, a booster motor adapted to drive said last named wheels in starting and at low speeds of the locomotive, and steam actuated mechanism for controlling the operation of the booster."

"3. In combination with the main driving means of a locomotive, a booster motor for aiding said main driving means in starting the locomotive and propelling it at low speeds and a steam actuated mechanism for controlling the operation of the booster."

as not patentable in view of the disclosure and claims in said patentee's prior Patent No. 1,339,395; and to that part of the claims in said specification which are in the following words, to wit:

"31. The method of aiding a locomotive engine in the propulsion of a train, which consists in utilizing the steam supply of the main engine of the locomotive for operating an auxiliary propulsion unit and directly effecting an operative driving connection between said auxiliary propulsion unit and a load bearing axle of the train through the medium of the pressure influence of the steam."

as covering a method which is nothing more than the statement of a result which may be accomplished by steam actuation of the mechanical devices which are disclosed as being capable of performing it.

Adjudicated Patents.

(D. C. N. Y.) The Van Meter patent, No. 1,102,479, for expansion device for parachute apparatus, claim 2 *Held* valid and infringed. *Van Meter* v. *Irving Air Chute Co.*, 27 F. (2d) 170.

(C. C. A. Ohio.) The Wagenhorst patent, No. 1,509,382, for demountable rim for automobile wheels, *Held* invalid. *Wagenhorst* v. *Hydraulic Steel Co.*, 27 F. (2d) 27.

(C. C. A. S. C.) The Lindsay and Hemphill reissue patent, No. 15,895, on air-agitating tube for refrigerating systems, *Held* valid and infringed. *Frick Co.* v. *Lindsay*, 27 F. (2d) 59.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 25, 1928.

[VOL. 374. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 257,257. THE SOUTHERN COAL & COKE COMPANY, Cincinnati, Ohio. Filed Nov. 8, 1927.

EMERALD GEM

For Coal.
Claims use since November, 1917.

Ser. No. 265,901. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND TRADING INTO HUDSON'S BAY, London, England. Filed May 4, 1928.

BAYVEL

For Furs Not Made Up for Wear.
Claims use since Aug. 29, 1927.

Ser. No. 269,083. CAPE ANN ISINGLASS COMPANY, Boston, Mass. Filed July 5, 1928.



For Unprepared Isinglass Not Used for Food Purposes.
Claims use since 1872.

Ser. No. 269,798. JAMES H. RHODES & COMPANY, Chicago, Ill. Filed July 18, 1928.

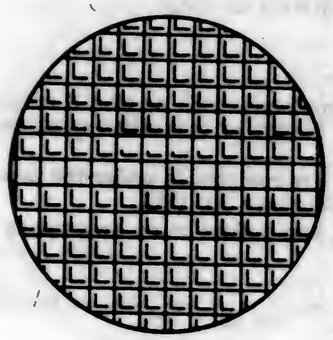


For Lump Pumice Stone.
Claims use since July 22, 1924.

CLASS 2.

Receptacles.

Ser. No. 267,367. LIONEL TRADING CO. INC., New York, N. Y. Filed June 2, 1928.



For Empty Vanity Cases for Rouge and Powder Compacts of Enamelled Base Metal.
Claims use since March, 1928.

Ser. No. 270,194. MASTER METAL PRODUCTS, INC., Buffalo, N. Y. Filed July 26, 1928.

SANETTE

For Paper Bags.
Claims use since Jan. 21, 1926.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 262,233. MILWAUKEE SADDLERY COMPANY, Milwaukee, Wis. Filed Feb. 25, 1928.



The portrait is not that of any living individual, but is fanciful. No claim is made to the word "Harnessmaker" apart from the mark shown.
For Harness.
Claims use since Dec. 10, 1926.

Ser. No. 268,524. WHITE LUGGAGE CO., INC., New York, N. Y. Filed June 22, 1928.

TOUR LA MODE

The word "Mode" is disclaimed apart from the mark shown.
For Hatboxes.
Claims use since May 21, 1928.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 252,635. THE AMERICAN PRODUCTS COMPANY, Cincinnati, Ohio. Filed July 28, 1927.

DERMALINE

For Hand Soap, Facial Soap, Shaving Cream in Paste Form for Use Before Shaving, Shaving Soap, and Shaving Stick.
Claims use since Dec. 1, 1911.

Ser. No. 262,010. WINDSOR SOAP CO., INC., Buffalo, N. Y. Filed Feb. 20, 1928.

SONYA



For Castile Soap.
Claims use since on or about Jan. 21, 1928.

Ser. No. 264,199. ELMER RAUH, doing business as The Gumption Products Company, Dayton, Ohio. Filed Apr. 2, 1928.

GUMPTION

For Soap with Detergent Properties.
Claims use since Sept. 18, 1925.

Ser. No. 264,941. ARBY PRODUCTS COMPANY, INC., New York, N. Y. Filed Apr. 17, 1928.

Arby

For Soap.
Claims use since May 1, 1927.

Ser. No. 269,282. EZON MANUFACTURING CO., Racine, Wis. Filed July 9, 1928.

EZON

For Brake Dressing.
Claims use since May 31, 1928.

Ser. No. 269,629. ARMOUR AND COMPANY, Chicago, Ill. Filed July 16, 1928.

FLINT

For Soap.
Claims use since about Jan. 1, 1908.

Ser. No. 270,081. HENRY & HENRY, INCORPORATED, Buffalo, N. Y. Filed July 24, 1928.

FRID

For Cleansing and Washing Powder.
Claims use since Aug. 15, 1924.

Ser. No. 270,709. CHRIS W. LEE, doing business as Great Stuff Products Company, Minneapolis, Minn. Filed Aug. 7, 1928.

Great Stuff

In the drawing the lining indicates the color red.
For Metal Polish and Top Dressing.
Claims use since early in the spring of 1922.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 239,889. IRVING MCEWEN, Omaha, Nebr. Filed Nov. 10, 1926.

HAIRAIDE

For Hairdressings, Hair Tonic, Hair Pomade, and Hair Oil.
Claims use since Nov. 1, 1926.

Ser. No. 257,691. I. MILLER & SONS, INC., Long Island City, N. Y. Filed Nov. 17, 1927. Under section 5b of the act of 1905, as amended in 1920.

I.MILLER

Applicant is the owner of registered trade-marks No. 213,510, effected under the 10-year proviso of the act of 1905, and No. 213,544, covering substantially the same mark.
For Compact Powders and Compact Rouges, Lip Sticks, Eyebrow Pencils, Liquid Face Powder, Mascara, Sachet, Talcum Powder, Face Lotion, Powder Refills and Rouge Refills, Liquid Cuticle Remover, Hair Tonics, Toilet Water, Perfume, Nail Polish, Cold Cream, and Tooth Paste.
Claims use since June 20, 1927.

Ser. No. 258,028. FRANCISCO JAUREGUI AND LUIS LANCELOTTI, Buenos Aires, Argentina. Filed Nov. 25, 1927.



The two signatures appearing on the drawing are facsimile signatures of applicants. No claim is made to the exclusive use of the words "Suero Antiluetico de Auchenia Lama."
For Serum for Treating Syphilis.
Claims use since May, 1926.

Ser. No. 258,786. JOHN A. RIETMANN, Chicago, Ill., assignor to Gra-Car Ltd., Chicago, Ill., a Corporation of Illinois. Filed Dec. 7, 1927.



The representation of the container or vase is disclaimed.
For Toilet Articles—Namely, Perfumes.
Claims use since Feb. 1, 1846.

Ser. No. 262,940. WILLIAM A. SMILEY, Mount Vernon, Wash. Filed Mar. 10, 1928.



Smiley's

The trade-mark consists of a photograph of the applicant together with the word "Smiley's" in script below the photograph.
For Ointment or Liniment Used in Treating Boils, Carbuncles, Blood Poisons and Other Infections and Skin Diseases.
Claims use since Feb. 4, 1928.

Ser. No. 263,220. ELLA MAY LONG, doing business as Mrs. S. F. Long, Chapel Hill, N. C. Filed Mar. 15, 1928.



No claim is made to the word "Roup" apart from the mark shown in the drawing.
For Preparation for Treating Roup in Chickens.
Claims use since Oct. 3, 1926.

Ser. No. 263,640. CLARK POULTRY RESEARCH LABORATORIES, INC., Cleveland, Ohio. Filed Mar. 23, 1928.

HEN WAFERS



The words "Hen Wafers" are disclaimed except in the association shown.
For Insecticides.
Claims use since about July 1, 1925.

Ser. No. 264,413. MAX BAKST, doing business as Strobak Laboratories, New York, N. Y. Filed Apr. 6, 1928.

TYROMA

For Pharmaceutical Preparation for Dandruff and Loss of Hair.
Claims use since Mar. 28, 1927.

Ser. No. 265,013. PRIOR LABORATORIES, New York, N. Y. Filed Apr. 17, 1928.

Paloma

For Toilet Creams—Namely, Nutritive Vanishing Creams.
Claims use since Mar. 15, 1928.

Ser. No. 265,283. NATIONAL AMMONIA COMPANY, INC., Philadelphia, Pa. Filed Apr. 23, 1928.



The words "Ammonia" and "Aqua" are disclaimed apart from the mark shown in the drawing.
For Ammonia.
Claims use since Mar. 28, 1928.

Ser. No. 266,062. SAMUEL P. TURNBULL, doing business as Wekiwa Chemical Co., Moultrie, Ga. Filed May 7, 1928.



The drawing is not lined for color, but indicates shading.
For Insecticide.
Claims use since November, 1927.

Ser. No. 266,126. CHARLES V. COLLIER, doing business as The Pynoil Company, St. Petersburg, Fla. Filed May 9, 1928.



Applicant disclaims the right to the exclusive use of the word "Pynoil" apart from the trade-mark shown in the drawing.
For External Preparation Used as a Healing Antiseptic for Skin Irritations, Cuts, and Bruises.
Claims use since March, 1927.

Ser. No. 266,824. NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed May 22, 1928.

EVEREADY
PRESTONE

Applicant is the owner of certificate No. 135,757.
For Liquid Compound for the Prevention of Freezing and Boiling of Water in Radiators Connected with Internal-Combustion Engines.
Claims use since Sept. 15, 1927.

Ser. No. 267,193. OSCAR A. GROSS, doing business as "Gervais," New York, N. Y. Filed May 29, 1928.



No registration rights are claimed in the word "Rose" except in association with the other features of the mark.
For Face Powder, Talc Powder, Rouge, Lip Sticks, Perfumes, Toilet Water, Hair Tonic, Nail Polish, Dusting Powder, Hair and Skin Lotions, Deodorants, Face Creams, Hand Lotion, Hair Restorer, and Shampoo.
Claims use since Nov. 3, 1922.

Ser. No. 267,412. FOWLER'S MEDICATED FRUITS, Paris, Tenn. Filed June 4, 1928.



The portrait shown in the drawing is that of the applicant. The drawing is lined for yellow.
For Medicine in the Form of Medicated Fruits for Stomach Trouble and Chronic Constipation.
Claims use since October, 1927.

Ser. No. 267,529. BURROUGH BROTHERS MANUFACTURING COMPANY, Cleveland, Ohio, and Baltimore, Md. Filed June 6, 1928.

Resor-Bismol

For Gastrointestinal Antiseptic.
Claims use since Jan. 1, 1897.

Ser. No. 267,616. THINC PRODUCTS, INC., New York, N. Y. Filed June 6, 1928.

THINC

For Astringents, Astringent Cerates, Hand Creams, Cleansing Creams, Cold Creams, Vanishing Creams, Face Creams, Massage Creams, Bleach Creams, Wrinkle Creams, Deodorant Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Depilatory, Nail Polish, Preparations for the Removal of Nail Polishes, Preparations for the Whitening of Nails, Nail Creams, Nail Bleaches, Preparations for the Removal of the Cuticle, Cuticle Ice, Dry Rouges, Liquid Rouges, Lip Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyebrow Pencil, Eyedrops, Hand Lotions, Skin Lotions, Loose Face Powders, Compact Face Powders, Talcum Powders, Liquid Face Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Henna Rinses, Hair Bleaches, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Tooth Pastes, Mouth Washes, Dentifrices, Witch-Hazel, Bay Rum, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Ice, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Cologne, Perfumes, and Toilet Waters.
Claims use since July 21, 1927.

Ser. No. 267,721. THOMAS REED, doing business as Crown Medicine Company and Gestotone Company, Atlanta, Ga. Filed June 8, 1928.

GEST-O-TONE

The lines on the drawing do not indicate color.

For Medicine for the Relief of Indigestion, Chronic Constipation, Gas Pressure, Choking, Distress After Eating, Foul Breath, Heartburn, Acidity, Sour Stomach, and Toxic Condition.

Claims use since about May 1, 1926.

Ser. No. 268,014. WETTERSOL DYESTUFF CORPORATION, New York, N. Y. Filed June 13, 1928.



For Dyestuffs and Intermediates.

Claims use since May 16, 1928.

Ser. No. 268,308. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y. Filed June 19, 1928.

LOXOL

For Liniment for Rheumatism, Gout, Neuralgia, Lumbago, Colds, Sprains, Bruises, Cramps in the Stomach, and Similar Ailments.

Claims use since 1898.

Ser. No. 268,469. SOCIETA ANONIMA DISTILLERIE G. RAMAZZOTTI FU AUSANO, Milan, Italy. Filed June 21, 1928.



No rights are asserted to the representation of the goods or to the words "Amaro Superiore" apart from the mark as shown in the drawing.

For General Tonic.

Claims use since Oct. 28, 1921.

Ser. No. 268,530. LAURA SUSAN CAHILL, doing business as Crowning Glory Manufacturing Company, Roanoke, Va. Filed June 23, 1928.

Cahill's
Crowning Glory Hair Grower

The words "Hair Grower" are disclaimed apart from the other features of the mark appearing on the drawing.

For Preparation for use in Growing Hair.

Claims use since June 1, 1913.

Ser. No. 268,546. HY-NAP CHEMICAL COMPANY, New York, N. Y. Filed June 23, 1928.

Hy-Nap

For Pharmaceutical Preparation Used for the Treatment of Pyorrhœa Alveolaris and as a General Mouth Wash.

Claims use since Sept. 1, 1908.

Ser. No. 268,556. NEV CHEMICAL CO., Brooklyn, N. Y. Filed June 23, 1928.



The background of the word "Nev" being in red, as indicated by the lining.

For Ointment and Salve for Burns, Chafing, Neuralgia, Hemorrhoids, Insect Bites, Bruises, Cuts, Shingles, Acne, Eczema, Toothache, Sunburns, Scalds, Itching, Blisters, Abrasions, and Broken or Injured Skin Surfaces.

Claims use since about Apr. 15, 1928.

Ser. No. 268,570. ANCHOR DRUG CO., Sacramento, Calif. Filed June 25, 1928.

BALSORO

For Blood Purifier with Cod-Liver Oil.

Claims use since Jan. 15, 1914.

Ser. No. 269,161. CHARLES S. THROGMORTON, doing business as Bis-Ark Company, Brinkley, Ark. Filed July 5, 1928.



For Medicine Used in the Treatment of Cramps, Flux, Dysentery, and Colitis.

Claims use since March, 1928.

Ser. No. 269,209. ADDIE E. SMITH, doing business as Smith Bros., Berkeley and Oakland, Calif. Filed July 6, 1928.

M·A·C·

For Preparation for Use in the Treatment of Dyspepsia.

Claims use since Apr. 20, 1909.

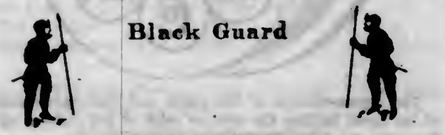
Ser. No. 269,252. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 7, 1928.

OLGAR

For Emulsion of Liquid Petrolatum with Agar for Medicinal Use.

Claims use since Jan. 14, 1925.

Ser. No. 269,383. THE ANTISEPTIC PRODUCTS COMPANY, Denver, Colo. Filed July 11, 1928.



For Protective Dressing for Wounds and Sores.

Claims use since April, 1927.

Ser. No. 269,560. WETTERWALD & PFISTER COMPANY, INC., New York, N. Y. Filed July 13, 1928.

NAPHTHOSOL

For Dyestuffs and Intermediates.

Claims use since June 29, 1928.

Ser. No. 269,566. A.-S. GEA (FARMACEUTISK-KEMISK FABRIK), Copenhagen, Denmark. Filed July 14, 1928.

CITRAGAN

For Pharmaceutical Preparations for the Treatment of Gonorrhea.

Claims use since Feb. 11, 1928.

Ser. No. 270,126. HAIROLEUM COMPANY, Union City, N. J. Filed July 25, 1928.



The picture of the lady is fanciful. The lining on the drawing represents the colors gold, purple, and blue.

For Hair Tonic or Preparation for Treatment of Scalp Troubles—Namely, Eczema, Dandruff, Itching, Premature Loss of Hair, and Greasiness.

Claims use since July 2, 1928.

Ser. No. 270,400. LAURA V. TAYLOR, doing business as Snail-A-Tor Laboratory, Los Angeles, Calif. Filed July 31, 1928.

SNAIL-A-TOR

For Poison in the Form of a Powder for Killing Snails and Slugs.

Claims use since July 20, 1928.

Ser. No. 270,483. HOLLINGS-SMITH CO., Orangeburg, N. Y Filed Aug. 2, 1928. Under 10-year proviso.

SAL-CODEIA BELL

For Medicine for Treatment of Rheumatism, Neuralgias, Grippe, Dysmenorrhœa, Acid Cystitis, and Insomnia.

Claims use since Feb. 6, 1895.

Ser. No. 270,700. THE R. T. FRENCH COMPANY, Rochester N. Y. Filed Aug. 7, 1928.



For Herbs, Juniper Berries, Chamomile Flowers, Flaxseed Meal, Senna, Alum, Copperas, Rosin, Saltpetre, Turpentine, Saffron, Camphor, Syrup of Rhubarb, and Mineral

Oil, All of the Foregoing Being Used as Medicines; Ammonia, Laundry Blue, Boric Acid, Hydrogen Peroxide, Cough Syrup, Aromatic Spirits of Ammonia, Arnica, Camphorated Oil, Camphorated Mustard Oil, Castor Oil, Castor Oil (Aromatic), Iodine, Sweet Spirits of Nitre, Cold Cream, Vanishing Cream, Bay Rum, Glycerine, Witch-Hazel, Rose Water and Glycerine, Sour Salts, and Insecticides.

Claims use on aromatic spirits of ammonia, turpentine, arnica, camphorated oil, camphorated mustard oil, camphor, castor oil, iodine, sweet spirits of nitre, syrup of rhubarb, mineral oil, bay rum, glycerine, witch-hazel, rose water and glycerine, and laundry blue since July 1, 1918; on herbs since July 1, 1919; on ammonia since July 1, 1922; on juniper berries, chamomile flowers, alum, copperas, rosin, saltpetre, hydrogen peroxide, castor oil (aromatic), sour salts, and insecticides since July 1, 1924; on saffron and cough syrup since July 1, 1926; and on cold cream and vanishing cream since July 1, 1927.

Ser. No. 270,727. SHARP & DOHME, INCORPORATED, Baltimore, Md. Filed Aug. 7, 1928.

EKA SALT

No claim is made to the word "Salt" apart from the mark shown.

For Salt Used as a Dietary Substitute for Table Salt.
Claims use since July 7, 1928.

Ser. No. 271,064. ERNEST GORDON BRYANT, Glendale, Calif. Filed Aug. 15, 1928.

PERMASET

For Hair-Waving Liquid.
Claims use since Nov. 10, 1927.

Ser. No. 271,118. LAURA HAVENER, doing business as The Altruline Company, Chillicothe, Ohio. Filed Aug. 16, 1928.

AL-TRU-LINE

For Antiseptic Powder for Use in Solution for Treatment of Irritation, Infection, Inflammation, and Disease.
Claims use since March, 1928.

Ser. No. 271,175. FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed Aug. 17, 1928.

SPLENCENTRATE

For Extract of the Spleen Designed to Contain the Water-Soluble Constituents Freed from Connective Tissue, Associated Lipoid, and Protein to be Used in the Treatment of Anemia.
Claims use since Aug. 1, 1927.

Ser. No. 271,184. HALL & RUCKEL, INC., Brooklyn, N. Y. Filed Aug. 17, 1928.

X-BAZIN

For Depilatory Powder and Depilatory Cream.
Claims use since Mar. 5, 1907.

Ser. No. 271,258. FREDERICK EUGENE ISCHERLAND, Flint, Mich. Filed Aug. 18, 1928.

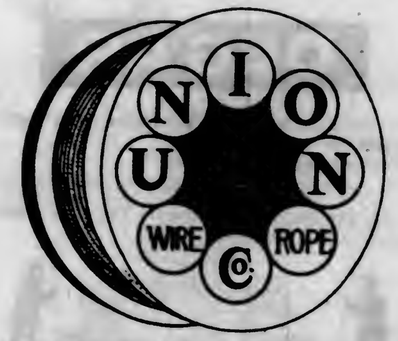
Glo-tex

For Tonic for Dressing the Hair.
Claims use since June 20, 1928.

CLASS 7.

Cordage.

Ser. No. 270,307. UNION WIRE ROPE CORPORATION, Tulsa, Okla. Filed July 28, 1928.



The representation of the goods and the representation of the spool holding the wire or cable is not claimed apart from the mark as shown.

For Wire Rope and Wire Cables and High-Carbon Wire Manufactured for Wire-Rope Purposes.
Claims use since Nov. 1, 1927.

Ser. No. 271,252. HANOVER CORDAGE COMPANY, Hanover, Pa. Filed Aug. 18, 1928.

"ITA-LINE"

For Hemp Twine.
Claims use since June 10, 1928.

Ser. No. 271,253. HANOVER CORDAGE COMPANY, Hanover, Pa. Filed Aug. 18, 1928.

"SIM-BA"

For Twine.
Claims use since May 5, 1928.

Ser. No. 271,254. HANOVER CORDAGE COMPANY, Hanover, Pa. Filed Aug. 18, 1928.

"JAV-AURITIUS"

For White Fibre Twines.
Claims use since June 15, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 259,251. THE NATIONAL FIREWORKS DISTRIBUTING CO. OF ARIZONA, Boston, Mass. Filed Dec. 22, 1927.

SON OF A GUN

For Fireworks.
Claims use since about May 28, 1904.

Ser. No. 264,304. HERCULES POWDER COMPANY, Wilmington, Del. Filed Apr. 4, 1928.

HERCOAL-F

For Dynamite.
Claims use since Dec. 13, 1927.

Ser. No. 270,869. AMTORG TRADING CORPORATION, New York, N. Y. Filed Aug. 11, 1928.

RMS

No claim is made to the representation of the match apart from the mark shown in the drawing.

For Matches.
Claims use since Aug. 1, 1928.

Ser. No. 271,460. VULCAN MATCH CO., INC., New York, N. Y. Filed Aug. 23, 1928.



For Matches.
Claims use since Feb. 29, 1928.

Ser. No. 271,461. VULCAN MATCH CO., INC., New York, N. Y. Filed Aug. 23, 1928.



For Matches.
Claims use since Feb. 23, 1928.

CLASS 10.

Fertilizers.

Ser. No. 270,037. LIMESTONE PRODUCTS CORPORATION OF AMERICA, Newton, N. J. Filed July 23, 1928.

Lime Crest

For Fertilizers.
Claims use since Sept. 15, 1921.

Ser. No. 270,162. AMERICAN FERTILIZING COMPANY, Norfolk, Va. Filed July 26, 1928.

BOB WHITE



For Fertilizers.
Claims use since 1893.

Ser. No. 270,181. GEORGIA CHEMICAL WORKS, Augusta, Ga. Filed July 26, 1928.

MASTODON



For Fertilizers.
Claims use since 1878.

Ser. No. 270,342. LIMESTONE PRODUCTS CORPORATION OF AMERICA, Newton, N. J. Filed July 30, 1928.

Lime Crest

For Fertilizers.
Claims use since Sept. 15, 1921.

Ser. No. 270,427. INTERNATIONAL AGRICULTURAL CORPORATION, New York, N. Y. Filed Aug. 1, 1928.

NI-PO-PHOS

For Fertilizers.
Claims use since June 27, 1928.

CLASS 11.

Inks and Inking Materials.

Ser. No. 247,322. H. LANSCHEY, INC., New York, N. Y. Filed Apr. 12, 1927.

ANTISICCA

For Antisiccative Inking Materials.
Claims use since Feb. 21, 1927.

Ser. No. 247,323. H. LANSCHEY, INC., New York, N. Y. Filed Apr. 12, 1927.

COLORFRESCO

For Inking Materials for Reviving and Increasing Pliability.
Claims use since Feb. 21, 1927.

Ser. No. 247,325. H. LANSCHEY, INC., New York, N. Y. Filed Apr. 12, 1927.

ELEGANTOL

For Inking Materials for Increasing Pliability.
Claims use since Feb. 21, 1927.

Ser. No. 247,326. H. LANSCHEY, INC., New York, N. Y. Filed Apr. 12, 1927.

GALAFIX

For Antiabsorption Inking Materials.
Claims use since Feb. 21, 1927.

Ser. No. 247,327. H. LANSCHEY, INC., New York, N. Y. Filed Apr. 12, 1927.

GOLDOL

For Antiabsorption Inking Materials for Bronzing Inks.
Claims use since Feb. 21, 1927.

Ser. No. 247,329. H. LANSCHEY, INC., New York, N. Y. Filed Apr. 12, 1927.

SECCOPRESTOL

For Dryers for Inks.
Claims use since Feb. 21, 1927.

Ser. No. 247,330. H. LANSCHEY, INC., New York, N. Y. Filed Apr. 12, 1927.

SOLIDOR

For Inking Materials for Increasing Adhesion.
Claims use since Feb. 21, 1927.

CLASS 12.

Construction Materials.

Ser. No. 244,044. THE CONTINENTAL ROOFING & MANUFACTURING CO., Baltimore, Md. Filed Feb. 9, 1927.

CONTINENTAL

For Distilled Asphalt, Asphalt Felt, Asphalt Sheathing and Slater's Felt, Black Insulating and Sheathing Paper, Deadening Felt, Mica-Surfaced Roofing, Mineral-Surfaced Roofing, Rosin-Sized Sheathing, Unit Shingles, Giant Unit Shingles, and Strip Shingles.
Claims use since about January, 1923.

Ser. No. 268,889. AYER-TITE PRODUCTS CORPORATION, Philadelphia, Pa. Filed June 20, 1928.

AYER-TITE

For Liquid Asbestos-Fibre Cement.
Claims use since Apr. 26, 1928.

Ser. No. 269,816. ADENSITE CO., INC., New York, N. Y. Filed July 19, 1928.

ADAFLOR

For Chemical Compound in Crystal Form Which is Diluted in Water and Applied to Cement Floor Finish for Hardening and Coloring the Floor.
Claims use since January, 1927.

Ser. No. 269,825. CAMP MANUFACTURING COMPANY, Franklin, Va. Filed July 19, 1928.



For Lumber.
Claims use since June 6, 1928.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 260,849. RAFF COMPANY, INC., Atlanta, Ga. Filed Jan. 28, 1928.

THOROBOND

For Metal Pipe Joints.
Claims use since June 21, 1926.

Ser. No. 267,712. LALANCE & GROSJEAN MFG. CO., New York and Woodhaven, N. Y. Filed June 8, 1928.

LALANCE CRUSADER WARE

No claim is made to the word "Ware" apart from the mark shown.
For Enameled and Sheet-Metal Wares—Viz, Basin, Wash; Basins and Pitcher, Bath and Foot Tubs, Coffeepots; Coffeepots with Tin Dripper with Covers, Gravy Boats; Boilers, Asparagus and Corn, Ham; Boilers, Milk or Rice; Boilers, Coffee; Ice Bowls; Bowls, Mixing, Sugar; Factory and Stock Bowls, Chambers and Chamber Covers, Combinets, Commodes; Commodes, Covered; Cookers, Cereal or Food; Covers, Pot; Saucepan, and Water Pail; Colanders; Cups, Drinking, Baby Food, Muffin, Custard, Mustard; Cups and Saucers, Mugs, Tumblers, Cuspidors, Dippers, Bake Dishes, Butter Dishes; Dishes, Fish, Meat, Pudding, Soap, Vegetable; Tumbler Drainer, Cruller Friers, Funnels, Steam-Table Inserts, Preserving Kettles, Stove and Tea Kettles, Fish Kettles, Dippers, Ladles; Moulds, Cake and Jelly; Pails, Chamber; Pans, Cake Baking, Bread, Deep, Candle or Soap, Candy, Pudding, Dish, Fry, Sauce; Percolators; Pitchers, Molasses, Cream, Syrup, and Water; Plates, Dinner, Egg, Mess, Pie, Soup; Platters; Pots, Tea, Cook, Sauce, Stock, Stove, Stove with Steamers, Cruller; Steamers, Bread Raisers, Roasters, Skimmers, Strainers, Dustpans, Toilet Stands, Toilet Sets, Trays, Skillets, Spittoons, Refrigerator Pans, Tureens, Fillers, Tea Steepers, Shaving Mugs; Baths, Infants', Foot, Hip, Sponge, Arm, and Plunge; Soap Dishes, Muffin Rings, Broilers, Chafing Dishes, Mixers, Skewers, Toilet Jars, Trimmers, Sieves, Septal Basins and Pitchers, Sinks, Sink Backs, Drain Boards, and Brackets, Gas-Pipe Straps, Hot-Water Pans, and Saucers, Salt and Pepper, Flour, Sugar, and Spice Dredges.
Claims use since May 22, 1928.

Ser. No. 269,215. ACKERMAN DOOR INTERVIEWER CORP., New York, N. Y. Filed July 7, 1928.

INTERVIEWER

For Metal Door Wickets and Grilles.
Claims use since August, 1926.

Ser. No. 269,705. WOLVERINE TUBE COMPANY, Detroit, Mich. Filed July 16, 1928.

W

For Metal Tubing.
Claims use since June 1, 1928.

Ser. No. 270,060. EINAR TANGARD, doing business as Hans Tangard & Son, Chelsea, Mass. Filed July 23, 1928.

SUCCESS

For Metallic Eaves Hangers.
Claims use since June 29, 1928.

Ser. No. 270,102. THE WASHBURN COMPANY, Worcester, Mass. Filed July 24, 1928.

LEMON-AIDER

For Strainers.
Claims use since June 1, 1928.

Ser. No. 270,276. BOND FOUNDRY AND MACHINE COMPANY, Manheim, Pa. Filed July 28, 1928.

Bond Les-Nois

No claim is made to the exclusive use of the term "Les-Nois" apart from the mark as shown in the drawing.
For Steel Casters.
Claims use since July 3, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 271,023. EDGAR ALLEN & CO. LIMITED, Sheffield, England. Filed Aug. 15, 1928.

MAXILVRY

For Steel.
Claims use since MAR. 21, 1927.

CLASS 15.

Oils and Greases.

Ser. No. 253,552. SENECA OIL WORKS, Warren, Pa. Filed Aug. 16, 1927.

SENECA

For Gasoline, Kerosene, Fuel Oil, Lubricating Oils, and Paraffin Wax.
Claims use since Oct. 30, 1923.

Ser. No. 258,616. THE A. M. MOTOR CO., Clinton, Ind. Filed Dec. 8, 1927.

AERO-LENE

For Fuel for Internal-Combustion Engines Having Gasoline as Its Principal Ingredient.
Claims use since Aug. 8, 1926.

Ser. No. 268,713. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed June 26, 1928.

Glacier

For Lubricating Oils, Waxes, and Greases.
Claims use since March, 1915.

Ser. No. 268,714. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed June 26, 1928.

OLENITE

For Lubricating Oils, Waxes, and Greases.
Claims use since Jan. 1, 1921.

Ser. No. 268,717. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed June 26, 1928.

PECTAN

For Lubricating Oils, Waxes, and Greases.
Claims use since Sept. 1, 1914.

Ser. No. 268,719. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed June 26, 1928.

TRITON

For Lubricating Oils, Waxes, and Greases.
Claims use since June 15, 1915.

Ser. No. 269,113. GILMORE OIL COMPANY, Los Angeles, Calif. Filed July 5, 1928.

ROOFAMITE

For Gasoline, Kerosene, Lubricating Oil, Diesel Fuel Oil, Lubricating Grease, Fuel Oil, Engine Distillate, Motor-Lubricating Oil, Road Oil.
Claims use since May 18, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 268,376. JAIL BIRD PAINT REMOVER CO., Fort Wayne, Ind. Filed June 20, 1928.



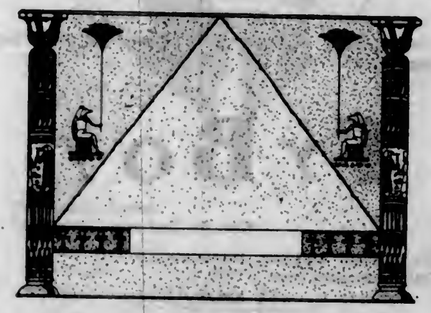
For Paint Remover.
Claims use since January, 1926.

Ser. No. 269,505. BEAUTEXT COMPANY, San Francisco, Calif. Filed July 13, 1928.

GAY-TEX

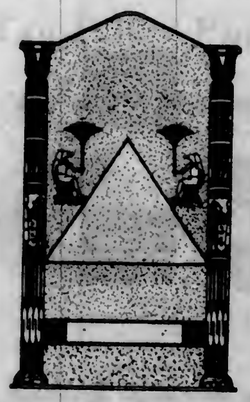
For Painters' Decorating Materials—Namely, Metallic Powder and Colors for Finishing Art Relief Decoration, Relief (a Product Made in Both Paste and Powder Form Used for Producing a Relief Effect in Decoration), Bronzing Powder, Paint Solvent and Thinner, Dry, Paste, and Ready-Mixed Paints.
Claims use since June 18, 1928.

Ser. No. 270,833. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y. Filed Aug. 10, 1928.



For Lacquers, Lacquer Enamels, Varnishes, Stains; Polishes for Automobiles, Furniture, and the Like; Glazes, Thinners, Primers, Fillers, and Intermediates—i. e., Materials Used for a Lacquer Base and as a Sealing Coat Between Old Varnish or Paint and Lacquer Finishes.
Claims use since about Oct. 10, 1927.

Ser. No. 270,834. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y. Filed Aug. 10, 1928.



For Lacquers, Lacquer Enamels, Varnishes, Stains; Polishes for Automobiles, Furniture and the Like; Glazes, Thinners, Primers, Fillers, and Intermediates—i. e., Materials Used for a Lacquer Base and as a Sealing Coat Between Old Varnish or Paint and Lacquer Finishes.
Claims use since about Oct. 10, 1927.

CLASS 17.

Tobacco Products.

Ser. No. 269,285. LAURENCE F. GERAGHTY, Montgomery, Ala. Filed July 9, 1928.

TRULY CURED

RESAGO

The words "Truly Cured" are disclaimed apart from the other features of the mark as shown in the drawing.
For Cigars.
Claims use since July 1, 1927.

Ser. No. 270,882. GEORGE SCHAFER CIGAR COMPANY, Baltimore, Md. Filed Aug. 11, 1928.



For Cigars.
Claims use since Jan. 18, 1906.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 267,724. SAINT-DIDIER AUTOMOBILES, Paris, France. Filed June 8, 1928.

SAINT-DIDIER

For Automobiles and Motor Trucks, Bicycles, and Structural Parts Thereof.
Claims use since 1920.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 270,819. THE GEORGE W. BLABON COMPANY, Philadelphia, Pa. Filed Aug. 10, 1928.

LACAWAX

For Hard-Surfaced Floor Covering in the Nature of Linoleum or Felt-Base Products.
Claims use since July 30, 1928.

Ser. No. 271,089. THE STANDARD TEXTILE PRODUCTS COMPANY, New York, N. Y. Filed Aug. 15, 1928.

COLOVOGUES

For Oilcloth and Oilcloth Table Covers.
Claims use since July 1, 1928.

CLASS 21.

Electrical Apparatus, Machines and Supplies.

Ser. No. 251,658. EDISON ELECTRIC APPLIANCE COMPANY, Chicago, Ill. Filed July 8, 1927.

CALROD

For Electric Domestic Appliances, More Particularly Electric Flatirons.
Claims use since April, 1926.

Ser. No. 261,153. STEWART BATTERY CO., Chicago, Ill. Filed Feb. 3, 1928.

FLINTOX

For Radiocondensers and Electron Tubes and Battery-Charging Rectifiers.
Claims use since Apr. 8, 1927.

Ser. No. 262,613. JOSEPH B. KOVAR, doing business as B-H Electrical Laboratories, Benton Harbor, Mich. Filed Mar. 5, 1928.



For Electric Sadiron.
Claims use since July 1, 1927.

Ser. No. 264,026. HENRY D'OLIER, Jr., Bridgeport, Conn. Filed Mar. 30, 1928.

DIPLE

For Electric Connectors, Sockets, Outlet Boxes, Hangers, Shade Holders, Shades, Reflectors, and Lighting-Fixture-Suspension Means.
Claims use since Sept. 8, 1927.

Ser. No. 270,590. HARE MFG. CO., Philadelphia, Pa. Filed Aug. 4, 1928.

TyBoy

For Electric Neckwear Pressers.
Claims use since June 7, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 261,585. THE OSHKOSH TRUNK COMPANY, Oshkosh, Wis. Filed Feb. 11, 1928.



The trade-mark consists of a plurality of alternate red and yellow stripes extending about the bag intermediate the ends thereof.
For Golf Bags.
Claims use since Jan. 7, 1928.

Ser. No. 269,905. AARON MASTER, Brooklyn, N. Y. Filed July 20, 1928.



For Board Games.
Claims use since Mar. 15, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 257,411. HAYS-FISCHER MANUFACTURING COMPANY, Fort Worth, Tex. Filed Nov. 11, 1927.

"HAYS-EAS-IN"

Fan-Pulley-Pins

"PEE-DEE-Q" PRODUCTS



Applicant disclaims the representation of the goods on the drawing apart from the mark shown, also any exclusive rights to registration in the words "Fan Pulley Pins" and the word "Products" apart from the mark as shown. The lining is for shading only.
For Fan-Pulley Pins.
Claims use since Jan. 1, 1924.

Ser. No. 261,154. U. S. RING TRAVELER COMPANY, Providence, R. I. Filed Feb. 3, 1928.



No claim is made to the representation of the goods except as herein associated.
For Ring Travelers.
Claims use since Sept. 29, 1909.

Ser. No. 262,071. ELLIOTT CORE DRILLING COMPANY, Los Angeles, Calif. Filed Feb. 23, 1928.

TUNGSTITE

For Core Drills and Rotary Drilling Bits Used in Drilling Oil Wells.
Claims use since Dec. 15, 1927.

Ser. No. 268,036. GLEANER COMBINE HARVESTER CORPORATION, Independence, Mo. Filed June 14, 1928.

the Gleaner BALDWIN

Applicant claims ownership of registration No. 222,924, issued Jan. 11, 1927. No claim is made to the exclusive use of the word "Baldwin" unassociated with the word "Gleaner" as herein displayed.
For Combined Harvester, Thresher, and Separator.
Claims use since Oct. 1, 1928.

Ser. No. 269,037. ALFRED ROESCH, Rahway, N. J. Filed July 3, 1928.



Exclusive right to the words "Weeds Out" is disclaimed.
For Rakes, Hoes, Shovels, Lawn Mowers, Hedge Shears.
Claims use since April, 1927.

Ser. No. 269,915. RANCHERS' MANUFACTURING COMPANY, Pomona, Calif. Filed July 20, 1928.



RAMCO

For Pumps and Pump Parts.
Claims use since May, 1912, on the word "Ramco," and since February, 1916, on the symbol (old English squire).

Ser. No. 270,407. GLAHNSOHN MANUFACTURING COMPANY, Glendale, Long Island, N. Y. Filed July 31, 1928.



For Cheese Slicers.
Claims use since May 19, 1928.

Ser. No. 270,689. CARL S. BRESNICK, New York, N. Y. Filed Aug. 7, 1928.



For All Manner and Kinds of Razors, Shears, Scissors, Knives of Base Metal, and Hair Clippers.
Claims use since Mar. 1, 1928.

Ser. No. 270,734. AERONAUTICAL PRODUCTS CORPORATION, Naugatuck, Conn. Filed Aug. 8, 1928.

SCORPION

For Internal-Combustion Engines and Parts Thereof.
Claims use since Jan. 8, 1928.

Ser. No. 270,746. INTERNATIONAL FIRE EQUIPMENT CORPORATION, West New Brighton, N. Y. Filed Aug. 8, 1928.



For Portable Hand Fire-Extinguishing Apparatus.
Claims use since July 25, 1928.

Ser. No. 270,762. AMERICAN IMPLEMENT COMPANY, Newark, N. J. Filed Aug. 8, 1928.



The lining used in the drawing is for the purpose of shading only. The words "Hedge Clipper" are disclaimed apart from the mark as shown.
For Hedge Clippers.
Claims use since Oct. 7, 1927.

Ser. No. 270,917. DONALDSON COMPANY, INC., St. Paul, Minn. Filed Aug. 13, 1928.

DUPLEX

For Air Cleaners for Internal-Combustion Engines.
Claims use since Dec. 19, 1921.

Ser. No. 270,918. DONALDSON COMPANY, INC., St. Paul, Minn. Filed Aug. 13, 1928.

SIMPLEX

For Air Cleaners for Internal-Combustion Engines.
Claims use since May 11, 1923.

Ser. No. 270,919. DONALDSON COMPANY, INC., St. Paul, Minn. Filed Aug. 13, 1928.

TWISTER

For Air Cleaners for Internal-Combustion Engines.
Claims use since Feb. 2, 1926.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 269,272. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood Station, Cincinnati, Ohio. Filed July 9, 1928.

FLEX-O

For Ironing Machines.
Claims use since June 11, 1928.

Ser. No. 269,819. ASHER MANUFACTURING COMPANY, Irvington, N. J. Filed July 19, 1928.

ACOLOY

For Cast-Metal Cylinders for Clothes-Washing Machines and Extractors.
Claims use since Jan. 12, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 268,194. BAIRD TELEVISION DEVELOPMENT COMPANY, LIMITED, London, England. Filed Mar. 15, 1928.

GRAMOVISOR

For Apparatus for Recording and Reproducing Views, Scenes, or Images by Television and Like Processes.
Claims use since Aug. 16, 1927.

Ser. No. 268,195. BAIRD TELEVISION DEVELOPMENT COMPANY, LIMITED, London, England. Filed Mar. 15, 1928.

PHONOVISOR

For Apparatus for Recording and Reproducing Views, Scenes, or Images by Television and Like Processes.
Claims use since Aug. 16, 1927.

CLASS 27.

Horological Instruments.

Ser. No. 268,095. THE GRUEN WATCH COMPANY, Time Hill, Cincinnati, Ohio. Filed June 15, 1928.

PENTATHIN

For Watches.
Claims use since Apr. 2, 1928.

Ser. No. 268,940. HERMAN SCHLACHT, New York, N. Y. Filed June 30, 1928.

Telesco

For Watchcases.
Claims use since May 25, 1928.

Ser. No. 269,920. IRA J. SHAPIRO, New York, N. Y. Filed July 20, 1928.

Lucky Strike

For Clocks.
Claims use since July 2, 1928.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 269,483. MAURICE RICHARDS, New York, N. Y. Filed July 12, 1928.

WINGS OF LOVE

For Finger Rings.
Claims use since June 12, 1928.

Ser. No. 269,719. COLONIAL BEAD CO. INC., New York, N. Y. Filed July 17, 1928.



No claim is made to the words "The Brilliant Cut Like Real Diamonds" apart from the mark shown in the drawing.
For Ornamental Pins, Brooches, Bracelets, and Bead Necklaces.
Claims use since Sept. 1, 1925.

Ser. No. 270,308. THE WEIDLICH BROS. M'F'G. CO., Bridgeport, Conn. Filed July 28, 1928.

E-JEX

For Gold and Silver Plated Novelties—Namely, Cigarette Boxes.
Claims use since July 2, 1928.

Ser. No. 270,370. COHN & ROSENBERGER, INC., New York, N. Y. Filed July 31, 1928.

AQUATINE

For Pearls, Necklaces, Bracelets, Earrings, Finger Rings, Brooches, Bar Pins, and Ornamental Hatpins, and Pins for Dress Ornaments, Ornamental Pins and Buckles for Decorating Hats, Ornamental Shoe Buckles and Hair Ornaments Made Wholly or in Part of or Plated with Precious Metal.
Claims use since July 18, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 269,795. MIDWAY CHEMICAL COMPANY, Chicago, Ill. Filed July 18, 1928.

RADIANT

For Dust Mops and Polish Mops.
Claims use since July 27, 1926.

Ser. No. 270,924. CLEMENCE FRANCK, San Francisco, Calif. Filed Aug. 13, 1928.

LA CLEMENCE

For Powder Puffs.
Claims use since Apr. 5, 1928.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 270,299. R. H. MACY & CO., INC., New York, N. Y. Filed July 28, 1928.



For Chinaware.
Claims use since Mar. 28, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 249,836. WM. CAMERON & CO., INC., Waco, Tex. Filed June 1, 1927.

IDEAL FURNITURE

Applicant owns Certificates No. 155,211, issued May 23, 1922; No. 160,405, issued Oct. 4, 1922; No. 183,706, issued May 6, 1924; No. 234,410, issued Oct. 25, 1927; No. 236,134, issued Dec. 6, 1927. Applicant disclaims the right to the exclusive use of the word "Furniture" apart from the mark shown in the drawing.

For Furniture—Namely, Sideboards, Window Seats, Mirrors, Bathroom Cabinets, China Closets, Broom Cabinets, Buffets, Kitchen Tables, Dining-Room Tables, End Tables, Parlor Tables, Library Tables, Mantel Shelves, Clothes Cabinets, Medicine Cabinets, Shoe-Polishing Cabinets, Wardrobes, China Cabinets, Benches, Linen Cabinets, Drawer Chests, Vanity Dressers, Telephone Cabinets, Pullman Breakfast Sets, Dressing Screens, Clothes Racks, Chests in the Nature of Furniture, Cases in the Nature of Furniture, Desks.
Claims use since Oct. 1, 1920.

Ser. No. 255,552. NEWELL A. EDDY, Bay City, Mich. Filed Oct. 3, 1927.

HABITANT

For Trestle Tables, Settees, Davenports, Lounges, Sofas, Benches, Refectory Tables, End Tables, Side Tables, Household Chairs, Fireside Benches, Day Beds, Chaise Lounges, Beds, Stands, Seats, Footstools, Hatracks, Hanging Shelves, Magazine Racks, High Chairs, Desks, Dressers, and Chests of Drawers.
Claims use since Mar. 1, 1924.

Ser. No. 267,515. SHOWERS BROTHERS COMPANY, Bloomington, Ind. Filed June 5, 1928.

SHOWERS 18 68 FURNITURE

No claim is made to the word "Furniture" aside from the mark as shown.

For Household Furniture of All Kinds, and More Particularly Living-Room Furniture—Namely, Tables, Bookcases, Davenports, Desks, Secretaries, Smoking Sets, Divans, Settees, Footstools, Rockers, and Chairs; Dining-Room Furniture—Namely, Tables, Chairs, Buffets, Serving Tables, China Cabinets, and Tea Carts; Bedroom Furniture—Namely, Beds, Couches, Chaise Lounges, Vanities, Dressing Tables, Dressers, Chiffoniers, Tables, Chests of Drawers, Mirrors, Bed Springs, Telephone Desks, and Rockers; Kitchen Furniture—Namely, Kitchen Cabinets; and Radio-cabinets Exclusive of Radio Apparatus.
Claims use since Dec. 1, 1927.

Ser. No. 269,619. L. BUCHMAN CO., INC., Brooklyn, N. Y. Filed July 16, 1928.

Airline

For Pillows and Cushions.
Claims use since Mar. 1, 1925.

Ser. No. 270,123. I. GINSBERG, doing business as Guarantee Sheet Metal Specialty Co., Brooklyn, N. Y. Filed July 25, 1928.

GSM

For Metal and Sheet-Metal Articles—Namely, Wheel Serving Tables, Stands for Magazines and Books, Metal Display Fixtures for Articles of Merchandise, Advertising and Display Stands, Metal Clothes Lockers, Portable Wheel Stands for Vending Articles of Merchandise, Advertising Display Racks.
Claims use since May 19, 1928.

Ser. No. 270,652. SEVILLE STUDIOS, INCORPORATED, Cleveland, Ohio. Filed Aug. 6, 1928.



BEAUMETAL

For Metal Novelties—Namely, Benches, Tables, Radio-tables, Aquarium Stands, Ferneries, Chairs, Magazine Racks, Book Ends, and Book Racks.
Claims use since on or about May 1, 1928.

Ser. No. 271,131. LUCIEN E. LARCHE, Stamford, Tex. Filed Aug. 16, 1928.

Jack & Jill

For Shelving for Stores.
Claims use since July 13, 1928.

CLASS 33.

Glassware.

Ser. No. 256,111. W. P. FULLER & CO., San Francisco, Calif. Filed Oct. 15, 1927. Under 10-year proviso.

W.P. FULLER & CO.

For Sheet and Plate Glass, Wire Ribbed Glass, Wire Corrugated Glass, Wire Plate Glass, Moss Glass, Maze Glass, Florentine Glass, Hammered Glass, White Cathedral Glass, Amber Cathedral Glass, Chipped Glass, and Ground Glass.
Claims use since 1894.

Ser. No. 257,977. W. P. FULLER & CO., San Francisco, Calif. Filed Nov. 23, 1927. Under 10-year proviso.

FULLER

For Sheet and Plate Glass, Wire Ribbed Glass, Wire Corrugated Glass, Wire Plate Glass, Moss Glass, Maze Glass, Florentine Glass, Hammered Glass, White Cathedral Glass, Amber Cathedral Glass, Chipped Glass, and Ground Glass.
Claims use since 1849.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 267,106. F. AESCHBACH S. A., Aarau, Switzerland. Filed May 28, 1928.

Artofex

For Baking Stoves Using Solid, Liquid, and Gaseous Fuel.
Claims use since July 20, 1911.

Ser. No. 267,376. MINNEAPOLIS-HONEYWELL REGULATOR COMPANY, Wabash, Ind., and Minneapolis, Minn. Filed June 2, 1928.

AIRSTAT

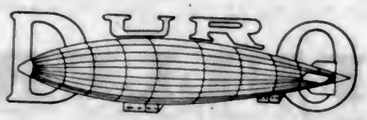
For Device to Limit the Temperature of the Air in the Casing of a Warm-Air Furnace.
Claims use since November, 1927.

Ser. No. 268,050. THE MARVEL OIL BURNER COMPANY, INC., New York, N. Y. Filed June 14, 1928.

Marvel Oil Burner

The words "Oil Burner" are disclaimed.
For Oil Burners.
Claims use since Oct. 6, 1927.

Ser. No. 268,392. ROESCH ENAMEL RANGE COMPANY, Belleville, Ill. Filed June 20, 1928.



For Coal, Gas, and Combination Ranges and Stoves.
Claims use since about February, 1927.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 258,125. INDIA TIRE AND RUBBER COMPANY, Akron, Ohio. Filed Nov. 28, 1927.



No claim is made to the representation of goods shown in the drawing. The trade-mark consists of a plurality of concentric circles on the side wall of a tire consisting of two inner semicircular beads, an intermediate serrated band colored red, as indicated by lining shown in the drawing, and two outer semicircular beads.
For Pneumatic Tires.
Claims use since July 1, 1927.

Ser. No. 258,126. INDIA TIRE AND RUBBER COMPANY, Akron, Ohio. Filed Nov. 28, 1927.



No claim is made to the representation of goods shown in the drawing. The trade-mark consists of a plurality of concentric circles on the side wall of a tire consisting of one inner flattened bead, an intermediate serrated band colored red, as indicated by lining shown in the drawing, and one outer flattened bead.
For Pneumatic Tire.
Claims use since Oct. 5, 1927.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 263,312. CARL FISCHER INC., New York, N. Y. Filed Mar. 17, 1928. Under 10-year proviso.

BUFFET
Crampon

For Wood-Wind, Brass, and Reed Musical Instruments and Parts Thereof Consisting of Mouthpieces and Reeds.
Claims use since about January, 1878.

CLASS 37.

Paper and Stationery.

Ser. No. 254,269. DITTO, INCORPORATED, Chicago, Ill. Filed Sept. 2, 1927.

DITTO



PENORTYPE

The word "Penortype" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Paper for Stationery Use for Business Forms Printed with Standard Business Ink and Also Printed with Ditto or Hectograph Ink and for Use in Running Ditto Copies from Typewritten Originals and Ditto or Hectograph Originals.
Claims use since May 18, 1927.

Ser. No. 261,913. SCHAEFER-JOHNSTON CO., New York, N. Y. Filed Feb. 18, 1928.

THE IDEAL HOME EXPENSE BOOK

No claim is made to the words "Home Expense Book" apart from the mark shown on the drawing.
For Tubularized Blank Book for Recording Home Expenses.
Claims use since January, 1928.

Ser. No. 261,928. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Feb. 18, 1928.



For Stationery—To wit, Writing Paper, Note Paper, and Envelopes for Said Writing Paper and Note Paper.
Claims use since Aug. 1, 1926.

Ser. No. 266,711. CAPITAL PAPER COMPANY, Indianapolis, Ind. Filed May 21, 1928.

SANITOS

The drawing is lined for shading only, and no claim is made to the particular color as indicated.
For Toilet Paper.
Claims use since May 8, 1928.

Ser. No. 269,087. CHRYSON'S, INC., Los Angeles, Calif. Filed July 5, 1928.

CHRYSON'S

For Stationery Consisting of Lawn Papers, Linen Papers, and the Like for Personal Correspondence.
Claims use since June 1, 1925.

Ser. No. 269,277. BUTLER PAPER CORPORATIONS, Chicago, Ill. Filed July 9, 1928.

WORLD'S FAIR BOND

The word "Bond" does not form a part of the registration sought apart from the mark shown in the drawing.
For Bond Paper.
Claims use since 1892.

Ser. No. 269,843. HALOWAX CORPORATION, New York, N. Y. Filed July 19, 1928.

HALOWAX

For Stencils and Paper Therefor.
Claims use since November, 1913.

Ser. No. 270,027. HUNTON & HOXIE CO., INC., Boston, Mass. Filed July 23, 1928.

MINIT-GRAM

For Letterheads.
Claims use since Jan. 30, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 254,075. FAIRCHILD COMPANY, Chicago, Ill. Filed Aug. 29, 1927.

The Chevalier

For Magazine Articles.
Claims use since Aug. 24, 1927.

Ser. No. 262,369. MCGRAW-SHAW COMPANY, Chicago, Ill. Filed Feb. 28, 1928.

FACTORY and INDUSTRIAL MANAGEMENT

For Magazine Published Monthly.
Claims use since Jan. 17, 1928.

Ser. No. 263,930. THE CRIME CLUB, INC., Garden City, N. Y. Filed Mar. 29, 1928.



For Completely-Printed Publications.
Claims use since Feb. 21, 1928.

Ser. No. 270,728. HAROLD J. SHIELD, doing business as The Home Garden Publishing Co., San Francisco, Calif. Filed Aug. 7, 1928.

WESTERN HORTICULTURE
GARDENS & HOMES

For Periodical.
Claims use since on or about Sept. 1, 1927.

Ser. No. 270,936. NEWS MESSENGER PUBLISHING CO., Marshall Tex., and Shreveport, La. Filed Aug. 12, 1928.

SOUTHERN Dairyman



For Periodical.
Claims use since June 1, 1928.

Ser. No. 270,946. UNITED PUBLISHING COMPANY, Kansas City, Mo. Filed Aug. 13, 1928.

ILLUSTRATED MECHANICS

For Periodical.
Claims use since 1925.

Ser. No. 271,298. JOSEPH DUBIN, doing business as Malt Age Publishing Company, Chicago, Ill. Filed Aug. 20, 1928.

MALT AGE

For Monthly Periodical.
Claims use since December, 1924.

Ser. No. 271,315. REGISTRAR AND TRANSFER COMPANY, New York, N. Y. Filed Aug. 20, 1928.

CORPORATION TOPICS

For Periodical.
Claims use since 1913.

CLASS 39.

Clothing.

Ser. No. 239,579. GOTHAM SILK HOSIERY CO. INC., New York, N. Y. Filed Nov. 2, 1926.

NO RUN THAT STARTS ABOVE CAN PASS THE GOLD STRIPE

No claim is made to the words "No Run That Starts Above can Pass the" apart from the mark as shown. Applicant is the owner of registration No. 91,959.
For Hosiery.
Claims use since 1916.

Ser. No. 241,365. ZION'S CO-OPERATIVE MERCANTILE INSTITUTION, Salt Lake City, Utah. Filed Dec. 11, 1926.



The words "Trade Mark" and "Shoes Above All" are disclaimed apart from mark as shown on the drawing.
For Clothing—Namely, Shoes Made of Combinations of Leather and Fabric.
Claims use since Sept. 1, 1926.

Ser. No. 242,004. THE WILLIAM HENGERER COMPANY, Buffalo, N. Y. Filed Dec. 27, 1926.

Charmette

For Gloves of Leather, Silk, or Cotton of Knitted or Textile Fabric or Combinations Thereof.
Claims use since Sept. 18, 1926.

Ser. No. 260,426. TOMAS G. COOK, Minneapolis, Minn. Filed Jan. 21, 1928.



Ella Mae
Model by Cook

The words "Model by Cook" are not herein claimed as a feature of the trade-mark.
For Ladies' and Women's Hats.
Claims use since on or about June 1, 1927.

Ser. No. 260,560. EVRARD & FICHET, Paris, France. Filed Jan. 24, 1928.

LOUISANIE

For Corsets, Corselets, Girdles, Brassières, and Women's Underwear of Textile Fabric—Namely, Chemisee, Night Shirts and Dresses, Drawers, and Combinations.
Claims use since Dec. 1, 1925.

Ser. No. 260,756. RUFUS W. SCOTT COMPANY, New York, N. Y. Filed Jan. 27, 1928.

GREY GOOSE

For Hosiery.
Claims use since Dec. 13, 1927.

Ser. No. 260,896. LEWEL MFG. CO. INC., New York, N. Y. Filed Jan. 30, 1928.



No claim is made to the exclusive use of the words "Lock Well" apart from the mark shown in the drawing.
For Bandeaux, Brassières, Girdles, and Corsettes.
Claims use since about January, 1927.

Ser. No. 262,167. PHIL M. HALLE, doing business as Phil M. Halle & Son, Memphis, Tenn. Filed Feb. 24, 1928.

YOUTHFUL ORIGINATIONS
ALAYNE
MODES

The expressions "Youthful Originations" and "Modes" are disclaimed apart from the other features of the mark shown in the drawing.

For Women's and Misses' Coats, Suits, and Dresses, and Shoes Constructed of Leather, Fabric, Combinations of Leather and Fabric, or Straw.

Claims use since Jan. 30, 1928.

Ser. No. 264,041. I. & R. MORLEY, London, England. Filed Mar. 30, 1928.

IRMO

For Men's Drawers, Men's Knicker Drawers, Men's Trousers, Men's Shirts (Dress, Negligee, Work, and Under), Men's Pants, Men's Stockings, Men's Socks; Men's Frocs—Namely, an Undervest Without Opening at the Neck; Women's Combinations or Union Suits, Women's Envelope Chemises, Women's Chemise Vests, Women's Vests, Women's Knickers, Women's Knickers Directoire, Women's Nightgowns, Women's Pajamas, Women's Stockings, Children's Combinations or Union Suits, Children's Socks, Children's Stockings, All Made of Knitted and/or Textile Fabrics; Gloves Made of Leather and Combinations of Leather and Fabric and Leather and Fur for Men, Women, and Children.

Claims use since Mar. 1, 1928.

Ser. No. 266,352. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed May 14, 1928.

BOSS
MAID

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.

Claims use since Apr. 9, 1928.

Ser. No. 266,466. HARRIS, DAVIS & CO., Nashville, Tenn. Filed May 16, 1928.

CHALLENGE

For Hosiery, Fabric and Leather Gloves, Dress Shirts, Flannel Shirts, Work Shirts, Sweaters; Underwear for Men, Women, and Children of Knitted, Netted, and Textile Material; and Knit Goods—Namely, Knit Caps, Bathing Suits, Infants' Bootees, and Sets Consisting of Caps, Jackets, and Sweaters, Scarfs.

Claims use since 1893.

Ser. No. 266,474. NEW YORK MACKINTOSH CLOTHING COMPANY, New York, N. Y. Filed May 16, 1928.

LONE



For Men's, Women's, and Children's Raincoats.

Claims use since May 4, 1928.

Ser. No. 267,543. ETCHISON HAT CO., INC., Richmond, Va. Filed June 6, 1928.



For Hats and Caps of All Kinds for Men, Women, and Children.

Claims use since Mar. 1, 1925.

Ser. No. 268,440. HIGGINBOTHAM-BAILEY-LOGAN COMPANY, Dallas, Tex., and New York, N. Y. Filed June 21, 1928.

Jimmie Dugan

"Jimmie Dugan" is the name of a character in the popular comic strips by Gene Byrnes.

For Boys' Dress Shirts, Work Shirts, Negligee Shirts, Blouse Shirts, Collars, Pants, Suits, and Overalls.

Claims use since Jan. 4, 1928.

Ser. No. 268,553. EBEN F. MARTIN, Lynn, Mass. Filed June 23, 1928.

PONYWELT

For Boots, Shoes, and Slippers of Leather, Fabric, or Combinations Thereof.

Claims use since Jan. 13, 1928.

Ser. No. 268,558. M. A. PACKARD COMPANY, Brockton, Mass. Filed June 23, 1928.

THE
KENT
SHOE
K

Exclusive use of the word "Shoe" is disclaimed apart from the mark shown.

For Boots and Shoes of Leather, Fabric, or Combinations Thereof.

Claims use since May 15, 1928.

Ser. No. 268,567. STERN BROTHERS, New York, N. Y. Filed June 23, 1928.



For Men's, Women's, Misses', and Children's Caps; Hats; Shoes of Leather, Calfskin, Satin, Brocade, Snakeskin, and Kid; Slippers of Leather, Felt, and Wool; Puttees, Riding Boots; Gloves of Fabric, Leather, Wool, Rubber, and/or Combinations Thereof; Leggings, Overshoes, Spats, Riding Breeches, Riding Habits, Sport Coats, Bathing Suits, Beach Robes, House Robes, Bath Robes, Suits, Coats, Overcoats, Raincoats, Sweaters, Knickers; Underwear of Knitted, Netted, and Textile Fabrics; Pajamas, Hosiery, Hose Supporters; Women's, Misses', and Children's Collar and Cuff Sets; Neckties, Belts for Outer Wear, Scarfs, Cloth Coats, Fur Coats, Fur Neck Pieces, Suits, Blouses, Skirts for Outer Wear, Dresses, Kimonos, Negligees; Lingerie—Namely, Drawers, Bloomers, Vests, Chemises, Dancing Sets, and Costume Slips; Dress Slips, Petticoats, Smocks, Aprons, Nightgowns, Bodices, Waists, Garters, Girdles, Shawls, Children's Rompers; Boys' and Men's Dress, Negligee, and Work Shirts and Undershirts; Ties, Collars, Mufflers, Smoking Jackets and Sweater Jackets, Nurses' Uniforms; Women's and Misses' Corsets, Brassières, Combination Corset and Brassière, and Boas.

Claims use since May 28, 1928.

Ser. No. 268,568. STERN BROTHERS, New York, N. Y. Filed June 23, 1928.

STERNCREST

For Men's, Women's, Misses', and Children's Caps; Hats; Shoes of Leather, Calfskin, Satin, Brocade, Snakeskin, and Kid; Slippers of Leather, Felt, and Wool; Puttees, Riding Boots; Gloves of Fabric, Leather, Wool, Rubber, and/or Combinations Thereof; Leggings, Overshoes, Spats, Riding Breeches, Riding Habits, Sport Coats, Bathing Suits, Beach Robes, House Robes, Bath Robes, Suits, Coats, Overcoats, Raincoats, Sweaters, Knickers; Underwear of Knitted, Netted, and Textile Fabrics; Pajamas, Hosiery, Hose Supporters; Women's, Misses', and Children's Collar and Cuff Sets; Neckties, Belts for Outer Wear, Scarfs, Cloth Coats, Fur Coats, Fur Neck Pieces, Suits, Blouses, Skirts for Outer Wear, Dresses, Kimonos, Negligees; Lingerie—Namely, Drawers, Bloomers, Vests, Chemises, Dancing Sets, and Costume Slips; Dress Slips, Petticoats, Smocks, Aprons, Nightgowns, Bodices, Waists, Garters, Girdles, Shawls, Children's Rompers; Boys' and Men's Dress, Negligee, and Work Shirts and Undershirts; Ties, Collars, Mufflers, Smoking Jackets and Sweater Jackets, Nurses' Uniforms; Women's and Misses' Corsets, Brassières, Combination Corset and Brassière, and Boas.

Claims use since May 28, 1928.

Ser. No. 268,681. ARCH L. COOK, doing business as Great Northern Glove Company, Bluffton, Ind. Filed June 26, 1928.

Handy Anns
for
Womans Hands

No claim is made to the exclusive use of the words "For Womans Hands" apart from the mark shown in the drawing.

For Gloves Constructed of Leather, Rubber, or of Fabric or of Combinations of These Materials.

Claims use since May 1, 1928.

Ser. No. 269,182. CARL C. CARR, Lakewood, Cleveland, Ohio. Filed July 6, 1928.

"IT PUT THE LOVE IN GLOVE"

The word "Glove" being disclaimed apart from the mark as shown.

For Fabric and Leather and Fabric Gloves.

Claims use since June 15, 1928.

Ser. No. 269,197. MUNICIPAL SHOE CO., INC., New York, N. Y. Filed July 6, 1928.



For Shoes of Leather, Rubber, Fabric, and Combinations of Leather and Fabric and Rubber and Fabric for Men, Women, and Children.
Claims use since June 12, 1928.

Ser. No. 269,237. HILLER BROS. AND HILLER, New York, N. Y. Filed July 7, 1928.

Hillmoor

For Ladies', Misses', and Children's Coats.
Claims use since on or about June 1, 1928.

Ser. No. 269,440. ACME SHOE MANUFACTURING COMPANY, Chicago, Ill. Filed July 12, 1928.



For Children's Shoes of Leather, Rubber, Fabric, and Combinations of Leather and Fabric and Rubber and Fabric.
Claims use since June 4, 1928.

Ser. No. 269,488. SOLOMON MFG. CO., St. Louis, Mo. Filed July 12, 1928.



For Women's Aprons of Textile Fabrics.
Claims use since June 15, 1928.

Ser. No. 269,509. CHELTENHAM KNITTING CO., Philadelphia, Pa. Filed July 13, 1928.



No claim being made to the name "Gibbs" apart from the mark shown.
For Men's, Women's, and Children's Underwear of Knitted or Woven Fabric.
Claims use since 1918.

Ser. No. 269,646. DURAND SHOE CO., Boston, Mass. Filed July 16, 1928.

Cream of Comfort

No claim is made of the right to exclusive use of the word "Comfort" apart from the mark shown.
For Leather Shoes.
Claims use since Mar. 21, 1927.

Ser. No. 270,426. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Aug. 1. 1928.



For Men's Suits Comprising Coats, Vests, Trousers, and Knickers and Men's Topcoats and Overcoats.
Claims use since July 20, 1928.

Ser. No. 270,472. BARNSHAW KNITTING COMPANY, Newton, Mass. Filed Aug. 2, 1928.

SELF HELP

For Children's and Infants' Underwear and Undergarments—Namely, Knitted Vests, Knitted Panties, Knitted French Style Step-Ins, Knitted Union Suits, Knitted Waists, Knitted Pants, and Knitted Sleepers.
Claims use since July 13, 1928.

Ser. No. 270,624. BERNE MANUFACTURING COMPANY, Berne, Ind. Filed Aug. 6, 1928.

Go Getter

For Dress Shirts and Flannel Shirts.
Claims use since January, 1924.

Ser. No. 270,675. MISSION HOSIERY MILLS, Los Angeles, Calif. Filed Aug. 6, 1928.

Hollywogue

For Stockings.
Claims use since July 24, 1928.

Ser. No. 271,050. JELLERSON-RAFTER COMPANY, Norway, Me. Filed Aug. 15, 1928.

RITE-POISE

For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since May 25, 1928.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 258,610. WORUMBO MANUFACTURING COMPANY, Bath, Me. Filed Dec. 7, 1927.

ZODIAC

For Woolen Goods in the Piece.
Claims use since Nov. 26, 1927.

Ser. No. 264,434. H. R. MALLINSON & CO. INC., New York, N. Y. Filed Apr. 6, 1928.

Snow Crystal

For Silk Piece Goods and Silk and Wool Mixed Piece Goods, and Silk and Rayon Mixed Piece Goods.
Claims use since Mar. 1. 1928.

Ser. No. 267,709. WILLIAM W. HOBBS, doing business as The Sudanette Company, New Bedford, Mass. Filed June 8, 1928.



For Sudan Cotton Cloth in the Piece.
Claims use since May 1, 1928.

Ser. No. 268,079. CHENEY BROTHERS, South Manchester, Conn. Filed June 15, 1928.

Permancia

For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Feb. 2, 1928.

Ser. No. 268,659. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed June 25, 1928.

Mardi Gras Prints.

No claim is made to the word "Prints" except in the association shown.
For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.
Claims use since December, 1927.

Ser. No. 268,660. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed June 25, 1928.

Fireworks Prints

No claim is made to the word "Prints" except in the association shown.
For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.
Claims use since December, 1927.

Ser. No. 268,661. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed June 25, 1928.

Fourth of July Prints.

No claim is made to the word "Prints" except in the association shown.
For Piece goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.
Claims use since December, 1927.

Ser. No. 268,662. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed June 25, 1928.

Seven Wonders of the World Prints

No claim is made to the word "Prints" except in the association shown.

For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.

Claims use since December, 1927.

Ser. No. 268,663. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed June 25, 1928.

Pioneers of America Prints.

No claim is made to the word "Prints" except in the association shown.

For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.

Claims use since December, 1927.

Ser. No. 268,664. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed June 25 1928.

Carved Ivory Prints.

No claim is made to the word "Prints" except in the association shown.

For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.

Claims use since December, 1927

Ser. No. 268,665. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed June 25, 1928.

Aerial Prints.

No claim is made to the word "Prints" except in the association shown.

For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.

Claims use since December, 1927.

Ser. No. 268,708. SOUTHERN MANUFACTURING COMPANY, Athens, Ga. Filed June 26, 1928.

PEARL WHITE
PW
SOUTHERN MFG. CO.
ATHENS, GA.

The words "Athens, Ga.," are disclaimed apart from the mark as shown in the drawing. The words "Pearl White" are disclaimed apart from the other features of the mark as shown. The lining on the drawing is for the color red.

For Cotton Cloth Piece Goods.

Claims use since 1921.

Ser. No. 269,357. LESHER, WHITMAN & CO., INC., New York, N. Y. Filed July 10, 1928.

SANVALE

For Uniform Serge—Namely, Piece Goods, Being a Fabric with a Warp of Cotton, or of Cotton and Mohair Mixed, or of Cotton and Silk Mixed, or of Cotton and Artificial Silk Mixed, and a Filling of Wool, or Cotton or Mohair or Alpaca, or Silk, or Artificial Silk, Singly or Combined.

Claims use since October, 1923.

Ser. No. 269,758. B. ALTMAN & CO., New York, N. Y. Filed July 18, 1928. Under 10-year proviso.

B. Altman & Co.

For Dry Goods—Namely, Plain and Fancy Piece Goods, as follows: Knitted, Netted, and Woven Textile Fabrics Composed in Whole or in Part of Wool, Cotton, Silk, Artificial Silk, or Linen or Combinations Thereof, such as are used for Clothing, Draperies, Upholstery, and the Like; Pile Fabrics, Ribbons, Laces, Bed Linens, Also Table Linens, Curtains, Draperies, Elastic Webbing in the Piece, Hair Nets, Handkerchiefs, Textile Automobile Robes, Textile Rugs, and Textile Carpets.

Claims use since about 1874.

Ser. No. 269,925. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed July 20, 1928.

Pyrotechnique Prints

No claim is made to the word "Prints" except in the association shown.

For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.

Claims use since December, 1927.

Ser. No. 269,979. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y. Filed July 21, 1928.

CENT-SEPT

For Silk Fabrics in the Piece.

Claims use since May 10, 1928.

Ser. No. 270,331. S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed July 30, 1928.

Jean

For Hair Nets Known as Water-Wave Nets, Slumber Nets, and Sport Nets Made of Silk or Other Suitable Material.

Claims use since Apr. 26, 1928.

Ser. No. 270,333. S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed July 30, 1928.

Regina

For Hair Nets Known as Water-Wave Nets, Slumber Nets, and Sport Nets Made of Silk or Other Suitable Material.

Claims use since Apr. 27, 1928.

Ser. No. 270,378. HESS, GOLDSMITH & CO., INC., New York, N. Y. Filed July 31, 1928.

Colonial Garden Prints

Exclusive use of the word "Prints" is not claimed except in association with the other features of the mark.

For Silk, Cotton, Rayon, Wool, and Any Combinations or Mixture Thereof, Woven, Knitted, and Netted.

Claims use since July 26, 1928.

Ser. No. 270,897. TWENTIETH CENTURY RAYON TEXTILES, INC., New York, N. Y. Filed Aug. 11, 1928.

Centex

For Knitted Fabrics of Silk, Rayon, and Mixtures of These Materials.

Claims use since June 1, 1928.

Ser. No. 271,087. ROTH, GOLDMAN CO., INC., New York, N. Y. Filed Aug. 15, 1928.

ROGO FABRICS

No claim is made to the exclusive use of the word "Fabrics" apart from the mark shown.

For Piece Goods of Silk, Rayon, and Cotton and Mixtures of These Materials.

Claims use since Apr. 15, 1928.

Ser. No. 271,166. CHENEY BROTHERS, South Manchester, Conn. Filed Aug. 17, 1928.

Nuancia

For Woven, Knitted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since Aug. 9, 1928.

Ser. No. 271,248. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Aug. 18, 1928.

BASQUENET

For Piece Goods Made of Silk, Cotton, and Wool.

Claims use since July 12, 1928.

Ser. No. 271,376. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Aug. 22, 1928.

MATALESE

For Fabrics in the Piece Made Wholly or Partially from Cellulose Derivatives.
Claims use since Aug. 20, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 270,831. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed Aug. 10, 1928.

DU PONT RAYON

LOLUSTRA

No claim is made to the word "Rayon" apart from the mark as shown.
For Cellulose Acetate Yarns, Threads, and Filaments.
Claims use since July 27, 1928.

Ser. No. 270,920. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed Aug. 13, 1928.

LOLUSTRA

For Cellulose-Acetate Yarns, Threads, and Filaments.
Claims use since July 27, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 264,536. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Apr. 7, 1928.

Schopedic

For Arch Supports.
Claims use since July 29, 1920.

Ser. No. 267,979. LÜSCHER & BÖMPER A.-G., Fahr, Germany. Filed June 13, 1928.

Elastoplast

For Plaster Bandages.
Claims use since Jan. 5, 1925.

Ser. No. 269,854. BLAHOURAF A. PAROUBEK, Plainfield, N. J. Filed July 19, 1928.

PAROUBEK'S FOLDO

For Finger Bandages.
Claims use since Apr. 22, 1909.

Ser. No. 270,120. GEORGE F. ELLS, doing business as Ells at Fargo, Fargo, N. Dak. Filed July 25, 1928.

NATURALITE

For Plastic Material for Making Artificial Dentures.
Claims use since May, 1928.

Ser. No. 270,443. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio. Filed Aug. 1, 1928.

DUCHESS

For Druggists' Rubber Sundries—Namely, Hot-Water Bottles, Fountain Syringe, Douche Syringe, Breast Pumps, Invalid Cushions, and Rubber Gloves.
Claims use since on or about May 15, 1928.

Ser. No. 270,444. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio. Filed Aug. 1, 1928.

FOUR HUNDRED

For Druggists' Rubber Sundries—Namely, Hot-Water Bottles, Fountain Syringe, Douche Syringe, Breast Pumps, Invalid Cushions, and Rubber Gloves.
Claims use since on or about May 15, 1928.

Ser. No. 270,513. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio. Filed Aug. 2, 1928.

ARISTOCRAT

For Druggists' Rubber Sundries—Namely, Hot-Water Bottles, Fountain Syringe, Douche Syringe, Breast Pumps, and Invalid Cushions.
Claims use since on or about May 15, 1928.

Ser. No. 270,514. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio. Filed Aug. 2, 1928.

PURITY

For Druggists' Rubber Sundries—Namely, Hot-Water Bottles, Fountain Syringe, Douche Syringe, Breast Pumps, Invalid Cushions, and Rubber Gloves.
Claims use since on or about July, 1920.

Ser. No. 270,517. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio. Filed Aug. 2, 1928.

NIGHTINGALE

For Druggists' Rubber Sundries—Namely, Hot-Water Bottles, Fountain Syringe, Douche Syringe, Breast Pumps, Invalid Cushions, and Rubber Gloves.
Claims use since on or about May 15, 1928.

Ser. No. 270,800. OXWELD ACETYLENE COMPANY, New York, N. Y. Filed Aug. 9, 1928.

VAULT OXYFIER

No claim is made to the word "Vault" apart from the rest of the mark shown in the drawing.
For Oxygen Dispensing Equipment for Vaults, Safes, and the Like.
Claims use since about May 3, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 269,872. TRY-ME BOTTLING COMPANY OF WASHINGTON, D. C., Washington, D. C. Filed July 19, 1928.



Applicant disclaims the exclusive use of the words "Nevada Dry Pale Ginger Ale" except in association with the other features of the mark.
For Ginger Ale.
Claims use since April, 1926.

Ser. No. 270,981. I. A. STEIN, Galveston, Tex. Filed Aug. 13, 1928.

MO-LIFE

For Nonalcoholic, Noncereal, Maltless Beverages and Syrups and Compounds for Making the Same.
Claims use since June 13, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 251,832. GUITTARD CHOCOLATE CO., San Francisco, Calif. Filed July 11, 1927.

EBONY



For Chocolate and Cocoa and Chocolate Coating.
Claims use since Jan. 8, 1917.

Ser. No. 253,749. ISAAC FRANKEL'S SONS, Wilkes-Barre, Pa. Filed Aug. 20, 1927.

YANKEE GIRL

For Coffee, Spices, Canned Fruits, Canned Vegetables, Fruit Preserves, Pickles, Malt, Wheat Breakfast Cereals, Noodles, Macaroni, Spaghetti, Food-Flavoring Extracts, Evaporated Milk, Mustard, Peanut Butter, Apple Butter, Catsup, Chili Sauce, Rice, and Malt Syrup.
Claims use since 1911.

Ser. No. 254,331. R. H. MACY & CO., INC., New York, N. Y. Filed Sept. 2, 1927.

PERROQUET

For Candies.
Claims use since Aug. 24, 1927.

Ser. No. 255,404. THE SPRAY COFFEE AND SPICE COMPANY, Denver, Colo. Filed Sept. 29, 1927.



For Roasted Coffee Mixtures, Teas, Spices, Chocolate, Cocoa, Shredded Coconut, Flavoring Extracts for Food, and Table Syrup.
Claims use since Feb. 28, 1906.

Ser. No. 260,009. GOODY NUT SHOPS, Detroit, Mich. Filed Jan. 12, 1928.



No claim being made to the words "Full o' Good Nuts" apart from the mark shown, the drawing not being lined for coloring.
For Salted Nuts and Nuts in Their Natural State as Well as Shelled.
Claims use since Aug. 29, 1927.

Ser. No. 262,212. DAIRY MAID CONFECTIONERY COMPANY, Philadelphia, Pa. Filed Feb. 25, 1928.

Dairy Maid

For Candy.
Claims use since about Apr. 1, 1908.

Ser. No. 262,716. KINGS RIVER FRUIT ASSOCIATION, Minkler, Calif. Filed Mar. 7, 1928.

Kings River

No claim is made to the geographical term "Kings River" apart from the mark as shown.
For Fresh Deciduous Fruits.
Claims use since Sept. 22, 1925.

Ser. No. 263,099. PLYMOUTH ROCK CANDY COMPANY, Boston, Mass. Filed Mar. 13, 1928.

PLYMOUTH ROCK

For Chocolate, Chocolate Nut, and Hard Candies.
Claims use since Feb. 5, 1928, on chocolate and chocolate nut candies, and since July 21, 1928, on hard candies.

Ser. No. 263,649. S. GARBER & SONS, Brooklyn, N. Y. Filed Mar. 23, 1928. Under 10-year proviso.

GOLD MEDAL

For Cottonseed Salad Oil, Vinegar, and Mustard.
Claims use since January, 1895.

Ser. No. 263,833. SILZ PACKING COMPANY, INC., New York, N. Y.. Filed Mar. 27, 1928.

DIPLOMAT

For Pickled Pigs' Foot Tasties, Pickled Lambs' Tongues, Ox Tongue (Whole, Jelly), Pickled Boneless Pigs' Feet, Sliced Beef, Vienna Sausage, Ox Tongue (Sliced, Jelly).
Claims use since Mar. 1, 1928.

Ser. No. 264,388. SERVICE GROCER COMPANY, INC., Detroit, Mich. Filed Apr. 5, 1928.

SERVICEBOY



For Seeds Used as Foods—Namely, Annis Seed, Caraway Seed, Mustard Seed, Celery Seed, Cummin Seed; Herbs—Namely, Thyme and Sage.
Claims use since September, 1925.

Ser. No. 265,398. OXFORD CANDY CORPORATION, Cambridge, Mass. Filed Apr. 25, 1928.

TAR BABY

For Candy.
Claims use since July 27, 1927.

Ser. No. 266,861. JOHN LIDDLE CO., INC., Glens Falls, N. Y. Filed May 23, 1928.

LIDCO

For Canned Fruits, Canned Vegetables, Tea, Coffee, Pepper, Mincemeat, Canned Cherries, Vinegar, Orange Marmalade, Jelly, Food-Flavoring Extracts, Mustard, Pickles, Canned Figs, Canned Fruit Preserves, Peanut Butter, Sliced Dried Beef, Olives, Dried Codfish, Oat Flakes, Chili Sauce, Catsup, Tomato Purée, Mayonnaise, Spices, Rice, Cocoa, Corn Starch, Canned Evaporated Milk, Pastry Flour, and Pancake Flour.
Claims use since 1920.

Ser. No. 266,998. LANDAUER & CO., London, England. Filed May 25, 1928.

Sunnifruit BRAND

The descriptive word "Brand" is hereby disc'aimed apart from the mark shown in the drawing.
For Canned Apricots, Pears, and Peaches.
Claims use since Mar. 22, 1923.

Ser. No. 267,350. W. J. BUSH AND COMPANY, LIMITED, London, England. Filed June 2, 1928.

VANBEENOL

For Substances Used as Food or as Ingredients of Food—Namely, Table and Cooking Syrups, Flavoring Essences, Flavorings, Flavoring Extracts from Fruit, Biscuits, Synthetic Table and Cooking Oils, Synthetic Flavorings, and Pastry Varnish.
Claims use since July 16, 1927.

Ser. No. 268,006. L. TORN, Los Angeles, Calif. Filed June 13, 1928.

Golden Heart

For Salted Nuts and Nuts in Their Natural State, Both Shelled and Unshelled; Honey Dried Fruits.
Claims use since Oct. 15, 1926.

Ser. No. 268,207. PATRICK CAIRNS, doing business as Wyoming Malt and Hops Supply Co., Philadelphia, Pa. Filed June 18, 1928.

WYO

For Malt Extract.
Claims use since May 8, 1926.

Ser. No. 268,402. STANDARD GROWERS EXCHANGE, Orlando, Fla. Filed June 20, 1928.



No claim is made to the registration of the words "Turn on the Juice, Brand, Oranges, Grapefruit, Standard Growers Exchange" and the representation of the fruit apart from the mark shown in the drawing. The representation of the lady and children in combination with the other colored features is fanciful. The lining on the drawing is for shading purposes only.
For Fresh Citrus Fruits.
Claims use since October, 1918.

Ser. No. 269,452. THE GAMBRILL GRAIN PRODUCTS CO., Baltimore, Md. Filed July 12, 1928.

ABSORBA

For Malt-Compound Powder Used to Improve and Increase the Yield in Making Bread.
Claims use since Mar. 1, 1928.

Ser. No. 269,471. THE KANSAS MILL & ELEVATOR COMPANY, Arkansas City, Kans.. Filed July 12, 1928.

A No 1

No claim is made to the words "A No 1" apart from the mark in the drawing.
For Wheat Flour.
Claims use since 1923.

Ser. No. 269,523. GULF VEGETABLE & FRUIT COMPANY, INC., Weslaco, Tex. Filed July 13, 1928.

LOVER

For Fresh Fruits—Namely, Grapefruit and Oranges.
Claims use since Mar. 1, 1928.

Ser. No. 269,612. TEA GARDEN PRODUCTS CO., also doing business as Pacific Coast Syrup Co., San Francisco, Calif. Filed July 18, 1928.



For Combination of Refiner's Syrup.
Claims use since July 15, 1900.

Ser. No. 269,821. H. C. BAXTER & BRO., doing business as H. C. Baxter Bros. Co., Baxter Bros Co., and Snowflake Canning Co., Brunswick, Me. Filed July 19, 1928.

HIGHLAND

For Canned Vegetables—Namely, Canned Sugar Corn and Canned Succotash.
Claims use since 1894.

Ser. No. 269,875. UNIVERSAL MILLS, Fort Worth, Tex. Filed July 19, 1928.

WA-MO

For Food for Hogs.
Claims use since May 31, 1928.

Ser. No. 269,884. AMERICAN CONE & PRETZEL COMPANY, Philadelphia, Pa. Filed July 20, 1928.

"DEL MONTE"

For Pie, Cake, and Ice-Cream Cones.
Claims use since July 9, 1928.

Ser. No. 269,999. CHAPIN F. TUBBS, Calistoga, Calif. Filed July 21, 1928.

CELLAR

For Fresh Grapes.
Claims use since June 1, 1928.

Ser. No. 270,025. GREAT WEST SALES CORPORATION, Chicago, Ill. Filed July 23, 1928.

BULL FROG

For Malt Syrups.
Claims use since about the month of April, 1927.

Ser. No. 270,062. JAMES J. TRIFNY, doing business as Muscle Malt Products, Chicago, Chicago, Ill. Filed July 23, 1928.

MUSCLE-MALT



The word "Malt" does not form a part of the registration sought apart from the mark shown.
For Malt Extract.
Claims use since July, 1925.

Ser. No. 270,136. THE MILFORD CANNING COMPANY, Milford, Ill. Filed July 25, 1928.



The pictorial representation of the goods, the words "Milford," "It's Roasted," "The Brand Which Brings Real Roasting Ear Flavor to Your Table," and "Milford, Ill." are hereby disclaimed apart from the mark shown on the drawing.
For Canned Corn.
Claims use since June 1, 1928.

Ser. No. 270,199. PENICK & FORD, LTD., New York, N. Y. Filed July 26, 1928.



For Molasses.
Claims use since February, 1907.

Ser. No. 270,328. GEBR. GRAF, Dagmersellen, Switzerland. Filed July 30, 1928.



None of the words appearing on the trade-mark are claimed apart from the mark shown except the words "Swiss Count" and "Graf Brothers."
For Cheese of Swiss Origin.
Claims use since Feb. 28, 1928.

Ser. No. 270,364. AFRICAN & EASTERN TRADING CO. INCORPORATED, New York, N. Y. Filed July 31, 1928.

SINDBAD

For Dates in the Natural State.
Claims use since October, 1926.

Ser. No. 270,372. P. DUFF & SONS, INC., Pittsburgh, Pa. Filed July 31, 1928.

SUNNY RIDGE

For Evaporated Milk.
Claims use since May 28, 1928.

Ser. No. 270,383. THE H. H. MEYER PACKING COMPANY, Cincinnati, Ohio. Filed July 31, 1928.



For Tomato Catsup.
Claims use since 1876.

Ser. No. 270,418. GLASER, CRANDELL CO., Chicago, Ill. Filed Aug. 1, 1928.



Applicant makes no claim to exclusive right in the words "Flavored," "Celery," "Cucumbers," or "Candied" per se nor in the picture of a cucumber. The drawing is lined for blue, red, green, yellow, and gold.
For Pickielike Product Consisting of Candied Cucumbers with Celery Flavor.
Claims use since July 2, 1928.

Ser. No. 270,526. PHILIP WUNDERLE, doing business as Smith & Peters, Philadelphia, Pa. Filed Aug. 2, 1928.

MALTASTIES

For Candy.
Claims use since July 17, 1928.

Ser. No. 270,566. CLARENCE E. ALFELD, doing business as Lakeside Products Company, Chicago, Ill. Filed Aug. 4, 1928.



Bohemian Maid

For Malt Syrup.
Claims use since Mar. 1, 1928.

Ser. No. 270,653. SOOBEL & DAY, INC., New York, N. Y. Filed Aug. 6, 1928.



No claim is made to the words "Brand, Fruit Distributors Headquarters New York City" nor to the outline of the label apart from the mark as shown in the drawing.

For Fresh Apples, Grapes, Canteloupes, Oranges, Plums, Cherries, Peaches, Tomatoes, Grapefruit, and Lemons.

Claims use since July 26, 1928.

Ser. No. 270,696. EM-IT-PRODUCTS COMPANY, Snyder, Tex. Filed Aug. 7, 1928.



For Salad Dressings.

Claims use since May 1, 1928.

Ser. No. 270,802. ROTH BROS., Wheeling, W. Va. Filed Aug. 9, 1928.

VIRGINIA MAID

For Canned Vegetables and Canned Fruits.

Claims use since July 17, 1928.

Ser. No. 270,883. MORRIS H. GERTNER, doing business as Gertner Malt Company, Columbus, Ohio. Filed Aug. 11, 1928.

XYZ

For Malt Syrup.

Claims use since July 18, 1928.

Ser. No. 270,886. LUMMIS & COMPANY, Philadelphia, Pa. Filed Aug. 11, 1928.

Comet
SALTED PEANUTS

No claim is made to the words "Salted Peanuts" apart from the mark as shown.

For Salted Peanuts.

Claims use since about Aug. 1, 1928.

Ser. No. 270,949. ALBERTA CANDY CO., San Francisco, Calif. Filed Aug. 13, 1928.



For Candy.

Claims use since May 15, 1928.

Ser. No. 270,983. WASHINGTON CANNERS CO-OPERATIVE, Vancouver, Wash. Filed Aug. 13, 1928.

Britewest

For Canned Fruits.

Claims use since Apr. 15, 1928.

Ser. No. 271,015. ALBERS BROS. MILLING CO., San Francisco, Calif. Filed Aug. 15, 1928.



For Cake and Pastry Flour.

Claims use since June 1, 1920.

Ser. No. 271,066. COLCA-COOKIE CORPORATION, Brooklyn, N. Y. Filed Aug. 15, 1928.



For Cookies.

Claims use since Apr. 1, 1928.

Ser. No. 271,078. PERFECTION BISCUIT COMPANY, Fort Wayne, Ind. Filed Aug. 15, 1928.

BIG MAC

For Coconnut Macaroons.

Claims use since June 30, 1928.

Ser. No. 271,187. KING CANDY CO., also doing business as Southern Candy Co., Fort Worth, Tex. Filed Aug. 17, 1928.

WHITE CAPS

For Bulk Candy.

Claims use since June, 1920.

Ser. No. 271,196. PURITY CANDY COMPANY, Beaumont, Tex. Filed Aug. 17, 1928.



The lining on the drawing is intended to indicate the colors red and blue.

For Salted Nuts.

Claims use since June 1, 1928.

CLASS 49.

Distilled Alcoholic Liquors.

Ser. No. 268,937. PUBLICKER COMMERCIAL ALCOHOL CO. OF DELAWARE, Philadelphia, Pa. Filed June 30, 1928.

Paco

For Pure Ethyl Alcohol.

Claims use since Apr. 9, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 269,090. CONGOLEUM-NAIRN, INC., Kearny, N. J. Filed July 5, 1928.



The word "Cork" is disclaimed except in connection with the mark as shown.

For Cork Moulding Blankets for Use in Preparing Moulds or Matrices for the Casting of Printing Plates.

Claims use since January, 1925.

Ser. No. 270,528. FORD MOTOR COMPANY, Fordson, Detroit, Mich. Filed July 28, 1928.

Ford

Applicant is the owner of registrations Nos. 74,530, 74,765, and 115,500.

For Automobile Body Floor Mats.

Claims use since 1914.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 25, 1928.

247,175. PHARMACEUTICAL PREPARATION IN LIQUID FORM FOR USE AS A WAVE RETAINER AND HAIRDRESSING. JOHN WILHELM, doing business as Wav-Life Laboratories, Chicago, Ill.
Filed April 28, 1928. Serial No. 265,597. PUBLISHED JULY 10, 1928. Class 6.

247,176. PROPHYLACTIC RUBBER ARTICLES FOR PREVENTION OF CONTAGIOUS DISEASES. AUGUSTUS G. VINING, Atlanta, Ga.
Filed April 28, 1928. Serial No. 265,591. PUBLISHED JULY 17, 1928. Class 44.

247,177. A NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP AND EXTRACT FOR MAKING THE SAME. WILLIAM S. RAEF, doing business as Star Bottling Co., Dallas, Tex.
Filed April 28, 1928. Serial No. 265,562. PUBLISHED JULY 17, 1928. Class 45.

247,178. ARTICLES MADE OF BASE METAL PLATED WITH CHROMIUM—TO WIT, SUGAR BOWLS, CREAM PITCHERS, TRAYS, CRUMB-SCRAPER SETS, TEAPOT STANDS, AND PLATES. MANNING, BOWMAN & CO., Meriden, Conn.
Filed April 28, 1928. Serial No. 265,553. PUBLISHED JULY 17, 1928. Class 13.

247,179. ALL KINDS OF WOODEN BOXES, CRATES, AND CASES FOR ALL PURPOSES. INTERSTATE COTTON OIL REFINING CO., Sherman, Tex.
Filed April 28, 1928. Serial No. 265,547. PUBLISHED JULY 10, 1928. Class 2.

247,180. FACE AND SKIN LOTION. ANTOINE CIERPLIKOWSKI, doing business as Antoine, Paris, France.
Filed April 28, 1928. Serial No. 265,521. PUBLISHED JUNE 19, 1928. Class 6.

247,181. THERAPEUTIC LAMPS. SANITARIUM EQUIPMENT COMPANY, Battle Creek, Mich.
Filed April 27, 1928. Serial No. 265,503. PUBLISHED JULY 17, 1928. Class 44.

247,182. LEATHER BOOTS AND SHOES. GREGORY & READ COMPANY, Lynn, Mass.
Filed April 27, 1928. Serial No. 265,475. PUBLISHED JULY 3, 1928. Class 39.

247,183. WOMEN'S LEATHER SHOES. LOUIS HALPERN SHOE COMPANY, INC., Boston, Mass.
Filed April 26, 1928. Serial No. 265,437. PUBLISHED JULY 3, 1928. Class 39.

247,184. PAPER BOARD USED FOR BOXES, POSTERS, AND ADVERTISING NOVELTIES. THE BUTTERFIELD-BARRY COMPANY, New York, N. Y.
Filed April 26, 1928. Serial No. 265,424. PUBLISHED JULY 10, 1928. Class 37.

247,185. PAPER BAGS. SHERIDAN-CLAYTON PAPER CO., St. Joseph, Mo.
Filed April 25, 1928. Serial No. 265,413. PUBLISHED JULY 17, 1928. Class 2.

247,186. COVERED RUBBER THREAD. FRANK W. GORSE CO., Needham, Mass.
Filed April 25, 1928. Serial No. 265,379. PUBLISHED JULY 17, 1928. Class 40.

247,187. LEATHER AND FABRIC SHOES. FABR BROS. CO., Allentown, Bethlehem, Reading, and Easton, Pa.
Filed April 25, 1928. Serial No. 265,372. PUBLISHED JULY 3, 1928. Class 39.

247,188. DRY COLORS FOR SHADING INKS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed April 24, 1928. Serial No. 265,322. PUBLISHED JULY 10, 1928. Class 11.

247,189. OUTBOARD BOAT MOTORS. EVINRUDE MOTOR COMPANY, Milwaukee, Wis.
Filed April 23, 1928. Serial No. 265,265. PUBLISHED JULY 17, 1928. Class 23.

247,190. CLARINETS AND BRASS-WIND MUSICAL INSTRUMENTS. HARRY BETTONEY, doing business as Cundy-Bettoney Company, Boston, Mass.
Filed April 23, 1928. Serial No. 265,253. PUBLISHED JULY 17, 1928. Class 36.

247,191. MEN'S AND BOYS' ROBES, DRESSING GOWNS, LOUNGE SUITS, SMOKING JACKETS, AND BEACH COATS. LEWIS-WISE CO. INC., New York, N. Y.
Filed April 21, 1928. Serial No. 265,222. PUBLISHED JULY 3, 1928. Class 39.

247,192. A TUBE WITH WRAPPING CORD, SEALING WAX, AND SEAL. MAURICE P. GERAGHTY, Chicago, Ill.
Filed April 21, 1928. Serial No. 265,205. PUBLISHED JULY 17, 1928. Class 7.

247,193. PREPARATION USED IN THE TREATMENT OF PELAGRA, SORE MOUTH, SORE THROAT, TONSILITIS, LOSS OF APPETITE, AND ALL INWARD INFLAMMATIONS. W. C. EVERETT & COMPANY, Andrews, N. C.
Filed April 21, 1928. Serial No. 265,203. PUBLISHED JULY 10, 1928. Class 6.

247,194. DAVENPORT BEDS. WEIGL FURNITURE COMPANY, Chicago, Ill.
Filed April 20, 1928. Serial No. 265,179. PUBLISHED JULY 17, 1928. Class 32.

247,195. SILK PIECE GOODS. ARNOLD ROSENFELD SILK CORPORATION, New York, N. Y.
Filed June 1, 1928. Serial No. 267,317. PUBLISHED JULY 10, 1928. Class 42.

247,196. SLICED BACON. T. M. SINCLAIR & CO. LTD., Cedar Rapids, Iowa.
Filed May 31, 1928. Serial No. 267,281. PUBLISHED JULY 17, 1928. Class 46.

247,197. BREAD AND CEREAL PRODUCTS—NAMELY, CAKES AND COOKIES. ROMAN MEAL COMPANY, Tacoma, Wash.
Filed May 31, 1928. Serial No. 267,278. PUBLISHED JULY 17, 1928. Class 46.

247,198. PUBLICATION ISSUED FROM TIME TO TIME. MIDWEST PUBLISHING CO., Appleton, Wis.
Filed May 31, 1928. Serial No. 267,266. PUBLISHED JULY 17, 1928. Class 38.

247,199. CANDY. BRODY NOVELTY CANDY PACKAGE CO., INC., New York, N. Y.
Filed May 31, 1928. Serial No. 267,234. PUBLISHED JULY 17, 1928. Class 46.

247,200. FLAT GLASS. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn.
Filed May 31, 1928. Serial No. 267,230. PUBLISHED JULY 10, 1928. Class 33.

247,201. FLAT GLASS. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn.
Filed May 31, 1928. Serial No. 267,229. PUBLISHED JULY 10, 1928. Class 33.

247,202. FLAT GLASS. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn.
Filed May 31, 1928. Serial No. 267,228. PUBLISHED JULY 10, 1928. Class 33.

247,203. PHONOGRAPHS. ALUMINUM SPECIALTY CO., Atlanta, Ga.
Filed May 29, 1928. Serial No. 267,179. PUBLISHED JULY 17, 1928. Class 36.

247,204. SILK AND SILK AND COTTON AND SILK AND WOOL MIXTURE FABRICS IN THE PIECE. ISIDORE ZYSMAN, doing business as Silwo Silk Co., New York, N. Y.
Filed May 28, 1928. Serial No. 267,175. PUBLISHED JULY 17, 1928. Class 42.

247,205. WASH MITTEN OF TEXTILE MATERIAL. PETER K. WILLIAMS, Columbus, Ohio.
Filed May 28, 1928. Serial No. 267,173. PUBLISHED JULY 17, 1928. Class 42.

247,206. TEXTILE WASHABLE RUGS. M. H. ROGERS, INC., New York, N. Y.
Filed May 28, 1928. Serial No. 267,145. PUBLISHED JULY 17, 1928. Class 42.

247,207. SHOPPING BAGS, CHATELAINE BAGS, SUITCASES, TRAVELING BAGS, VANITY BAGS, PORTFOLIOS, PURSES AND POCKETBOOKS, RIDING CROPS AND WHIPS, STIRRUPS. TIFFANY & COMPANY, New York, N. Y.
Filed May 26, 1928. Serial No. 267,094. PUBLISHED JULY 17, 1928. Class 3.

247,208. BREAD. SHELLABARGER MILLS & ELEVATOR COMPANY, Salina, Kans.
Filed May 26, 1928. Serial No. 267,085. PUBLISHED JULY 17, 1928. Class 46.

247,209. TINNING FLUXES. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed May 26, 1928. Serial No. 267,043. PUBLISHED JULY 10, 1928. Class 6.

247,210. ELECTRIC SADIRONS, ELECTRIC GRILLS, ELECTRIC TOASTER STOVES, ELECTRIC HEATING PADS, PLUGS, AND CONDUCTOR CABLES. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed May 26, 1928. Serial No. 267,038. PUBLISHED JULY 17, 1928. Class 21.

247,211. CLOCKS. THE ANSONIA CLOCK COMPANY, Brooklyn and New York, N. Y.
Filed May 26, 1928. Serial No. 267,027. PUBLISHED JULY 17, 1928. Class 27.

247,212. PLATE GLASS. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed May 24, 1928. Serial No. 266,952. PUBLISHED JULY 17, 1928. Class 33.

247,213. PLAIN AND INLAID LINOLEUM AND CORK CARPET. CONGOLEUM-NAIRN, INC., Kearny, N. J.
Filed May 24, 1928. Serial No. 266,914. PUBLISHED JULY 17, 1928. Class 20.

247,214. PEARLS, NECKLACES, BRACELETS, EARRINGS, FINGER RINGS, BROOCHES, BAR PINS, AND ORNAMENTAL HATPINS, AND PINS FOR DRESS ORNAMENTS, ORNAMENTAL PINS AND BUCKLES FOR DECORATING HATS, ORNAMENTAL SHOE BUCKLES, AND HAIR ORNAMENTS MADE WHOLLY OR IN PART OF OR PLATED WITH PRECIOUS METAL. COHN & ROSENBERGER, INC., New York, N. Y.
Filed May 24, 1928. Serial No. 266,913. PUBLISHED JULY 17, 1928. Class 28.

247,215. LADIES' WRIST WATCHES. JACOB ENGEL, doing business as J. Engel & Company, Baltimore, Md.
Filed May 21, 1928. Serial No. 266,725. PUBLISHED JULY 17, 1928. Class 27.

247,216. KEY RINGS, CHAIN FASTENERS, SNAP FASTENERS, SPRING RINGS, TIE CLASPS, LAPEL BUTTONS, BROOCHES, AND CHAIN BARS, ALL OF WHICH ARE MADE OF OR PLATED WITH PRECIOUS METALS; FINGER RINGS, CHAINS FOR PERSONAL ADORNMENT, BRACELETS, CUFF BUTTONS, CUFF LINKS, CHARMS, FOBS, AND PENDANTS. UNCAS MANUFACTURING COMPANY, Providence, R. I.
Filed May 19, 1928. Serial No. 266,694. PUBLISHED JULY 17, 1928. Class 28.

247,217. LICORICE IN STICK, TABLET, AND PEARL FORM. TUR HERMANOS, Richmond, Va., and New York, N. Y.
Filed May 18, 1928. Serial No. 266,636. PUBLISHED JULY 10, 1928. Class 6.

247,218. ALUMINUM RESTAURANT-SERVICE DISH COVERS. JOHN B. ZALLIO, doing business as The Stakover Company, Chicago, Ill.
Filed May 17, 1928. Serial No. 266,570. PUBLISHED JULY 17, 1928. Class 13.

247,219. WHEAT FLOUR. PENDLETON FLOUR MILL CO., Pendleton, Oreg.
Filed May 17, 1928. Serial No. 266,556. PUBLISHED JULY 17, 1928. Class 46.

247,220. SINK STRAINERS. MASTER METAL PRODUCTS INC., Buffalo, N. Y.
Filed May 17, 1928. Serial No. 266,548. PUBLISHED JULY 10, 1928. Class 13.

247,221. SANDWICHES. ANN K. KREGEL, Nebraska City, Nebr.
Filed May 17, 1928. Serial No. 266,545. PUBLISHED JULY 17, 1928. Class 46.

247,222. AGRICULTURAL LIME. THE GIBSONBURG LIME PRODUCTS COMPANY, Gibsonburg, Ohio.
Filed May 17, 1928. Serial No. 266,525. PUBLISHED JULY 17, 1928. Class 10.

247,223. PREPARATION FOR STIMULATING METABOLISM. HEINRICH HÖFER GESELLSCHAFT M. B. H., Vienna, Austria.
Filed May 11, 1928. Serial No. 266,246. PUBLISHED JUNE 26, 1928. Class 6.

247,224. PREPARED ENAMEL PAINT. FRANK W. DUNNE CO., Oakland, Calif.
Filed May 22, 1928. Serial No. 266,797. PUBLISHED JULY 10, 1928. Class 16.

247,225. PREPARATION FOR STIMULATING METABOLISM. HEINRICH HÖFER GESELLSCHAFT M. B. H., Vienna, Austria.
Filed May 11, 1928. Serial No. 266,247. PUBLISHED JUNE 26, 1928. Class 6.

247,226. SYRUP USED FOR FLAVORING FOODS, ICE CREAMS, ICES, OR WAFFLE SYRUP. FLORENCE BELLE MCCRACKEN, Walla Walla, Wash.
Filed May 10, 1928. Serial No. 266,210. PUBLISHED JULY 10, 1928. Class 46.

247,227. HAIR OIL. O. H. HENDERSON, Houston, Tex.
Filed May 10, 1928. Serial No. 266,201. PUBLISHED JUNE 26, 1928. Class 6.

247,228. GAME PLAYED UPON A BOARD IN WHICH MINIATURE CATS AND DOGS ARE MOVED ABOUT BY THE PLAYERS. PARKER BROTHERS INC., Portland, Me., and Salem, Mass.
Filed May 23, 1928. Serial No. 266,878. PUBLISHED JULY 10, 1928. Class 22.

247,229. PREPARED ENAMEL PAINT. FRANK W. DUNNE CO., Oakland, Calif.
Filed May 22, 1928. Serial No. 266,802. PUBLISHED JULY 10, 1928. Class 16.

247,230. VARNISH. FRANK W. DUNNE CO., Oakland, Calif.
Filed May 22, 1928. Serial No. 266,800. PUBLISHED JULY 10, 1928. Class 16.

247,231. BISCUITS. C. H. ELKES & SONS LIMITED, Utoxeter, England.
Filed May 29, 1928. Serial No. 267,188. PUBLISHED JULY 10, 1928. Class 46.

247,232. MEN'S HATS. THE MIDDLE WEST HAT MFG. COMPANY, Cleveland, Ohio.
Filed March 29, 1928. Serial No. 263,963. PUBLISHED JULY 3, 1928. Class 39.

247,233. MEN'S AND BOYS' SUITS, COATS, TROUSERS, VESTS, AND KNICKERBOCKERS. HAHNE & COMPANY, Newark, N. J.
Filed April 3, 1928. Serial No. 264,231. PUBLISHED JULY 3, 1928. Class 39.

247,234. CERTAIN NAMED LINGERIE. SIGNET HOSIERY COMPANY, Cambridge, Mass.
Filed April 2, 1928. Serial No. 264,206. PUBLISHED JULY 3, 1928. Class 39.

247,235. HOUSE ORGAN PUBLISHED PERIODICALLY OR FROM TIME TO TIME. JAREZ BURNS & SONS, INC., New York, N. Y.
Filed April 2, 1928. Serial No. 264,141. PUBLISHED JULY 10, 1928. Class 38.

247,236. HAIR TONIC. GEORGE H. WEYER, St. Joseph, Mo.
Filed March 27, 1928. Serial No. 263,846. PUBLISHED JULY 10, 1928. Class 6.

247,237. JOINTED CLIPS FOR HARNESS. THE MIDLAND COMPANY, South Milwaukee, Wis.
Filed March 29, 1928. Serial No. 263,964. PUBLISHED JULY 17, 1928. Class 3.

247,238. ILLUSTRATED MONTHLY MAGAZINES. NORTH GERMAN LLOYD, New York, N. Y.
Filed April 3, 1928. Serial No. 264,253. PUBLISHED JULY 17, 1928. Class 38.

247,239. LUBRICATING, MOTOR-FUEL, AND FURNACE OILS, ILLUMINATING OILS, GASOLINE, AND LUBRICATING GREASES. HARTOL PRODUCTS CORPORATION, New York, N. Y.
Filed April 4, 1928. Serial No. 264,303. PUBLISHED JULY 17, 1928. Class 15.

247,240. DRESSES AND GOWNS FOR WOMEN AND MISSES. ZALUD-KAUFMAN CO. INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,341. PUBLISHED JULY 3, 1928. Class 39.

247,241. CIGARS. SIDNEY J. FREEMAN & SONS, New York, N. Y.
Filed April 5, 1928. Serial No. 264,371. PUBLISHED JULY 17, 1928. Class 17.

247,242. MEDICINAL PREPARATION INDICATED IN THE TREATMENT OF BRONCHO-PNEUMONIA, BRONCHITIS, WHOOPING COUGH, INFLUENZA, AND AFFECTIONS OF THE RESPIRATORY ORGANS. MANUEL GREY, Mexico, Mexico.
Filed April 7, 1928. Serial No. 264,491. PUBLISHED JULY 10, 1928. Class 6.

247,243. JEWELRY FOR PERSONAL USE OR ADORNMENT CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARFPINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed September 21, 1927. Serial No. 255,044. PUBLISHED JULY 17, 1928. Class 28.

247,244. JEWELRY FOR PERSONAL USE OR ADORNMENT CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARFPINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed September 21, 1927. Serial No. 255,025. PUBLISHED JULY 17, 1928. Class 28.

247,245. PREPARATION FOR THE RELIEF OF CONSTIPATION. J. GUY MUNSELL, doing business as Munsell's Mineral Food Company, Lincoln, Nebr.
Filed September 12, 1927. Serial No. 254,042. PUBLISHED JULY 10, 1928. Class 6.

247,246. PHARMACEUTICAL PREPARATION—NAMELY, A MEDICINAL LINIMENT FOR EXTERNAL USE IN TREATING HUMAN AILMENTS—NAMELY, RHEUMATISM, NEURALGIA, COUGHS, SORE THROAT, CROUP, PNEUMONIA, ASTHMA, BRONCHITIS, LUMBAGO, AND PAIN IN THE STOMACH, BOWELS, AND ABDOMEN DUE TO INFLAMMATION AND FLATULENCE. CYRILLUS WIRTH, Bettendorf and Davenport, Iowa.
Filed August 27, 1927. Serial No. 254,067. PUBLISHED JULY 10, 1928. Class 6.

247,247. METALLIC ARTICLES AS FOLLOWS: FILING CABINETS, DESKS, CUPBOARDS, LIBRARY STACKS, COUNTERS, TABLES, CHAIRS, ROLLER BOOK SHELVING, PLAIN SHELVING, COUNTER SCREENS, WARDROBES, LOCKERS, AND BOOKCASES. ART METAL CONSTRUCTION COMPANY, Jamestown, N. Y.
Filed June 18, 1928. Serial No. 268,411. Class 32.

247,248. ALL KINDS OF GLASS AND GLASSWARE. NAAMLOOZE VENNOOTSCHAP GLASFABRIEK "LEERDAM," V. H. JERKEL, MIJNSSEN & Co., Leerdam, Netherlands.
Filed June 12, 1928. Serial No. 267,899. PUBLISHED JULY 17, 1928. Class 33.

247,249. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed June 9, 1928. Serial No. 267,752. PUBLISHED JULY 17, 1928. Class 42.

247,250. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed June 9, 1928. Serial No. 267,751. PUBLISHED JULY 17, 1928. Class 42.

247,251. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed June 9, 1928. Serial No. 267,750. PUBLISHED JULY 17, 1928. Class 42.

247,252. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed June 9, 1928. Serial No. 267,747. PUBLISHED JULY 17, 1928. Class 42.

247,253. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed June 9, 1928. Serial No. 267,748. PUBLISHED JULY 17, 1928. Class 42.

247,254. WHEAT FLOUR. BUFFALO FLOUR MILLS CORPORATION Buffalo, N. Y.
Filed June 9, 1928. Serial No. 267,745. PUBLISHED JULY 17, 1928. Class 46.

247,255. CANNED SALMON. DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash.
Filed June 7, 1928. Serial No. 267,635. PUBLISHED JULY 17, 1928. Class 46.

247,256. CANNED SALMON. DEMING & GOULD CO., Chicago, Ill., and South Bellingham Wash.
Filed June 7, 1928. Serial No. 267,634. PUBLISHED JULY 17, 1928. Class 46.

247,257. COTTON PIECE GOODS. CARSON PIRIE SCOTT & Co., Chicago, Ill.
Filed June 6, 1928. Serial No. 267,534. PUBLISHED JULY 17, 1928. Class 42.

247,258. PANCAKE FLOUR AND BUCKWHEAT FLOUR. LITTLE CROW MILLING COMPANY, Warsaw, Ind.
Filed June 5, 1928. Serial No. 267,498. PUBLISHED JULY 17, 1928. Class 46.

247,259. WHISKEY FOR MEDICINAL PURPOSES. SECURITY WAREHOUSE AND INVESTMENT CO., St. Louis, Mo.
Filed June 4, 1928. Serial No. 267,466. PUBLISHED JULY 17, 1928. Class 49.

247,260. DRIED FRUITS. ROEDING FIG & OLIVE CO., Fresno, Calif.
Filed June 4, 1928. Serial No. 267,461. PUBLISHED JULY 17, 1928. Class 46.

247,261. A PERIODICAL PUBLICATION PUBLISHED AT THE PRESENT TIME DAILY WITH THE EXCEPTION OF SATURDAYS, SUNDAYS, AND HOLIDAYS. THE NATIONAL PROVISIONER, INC., New York, N. Y.
Filed June 4, 1928. Serial No. 267,443. PUBLISHED JULY 17, 1928. Class 38.

247,262. PNEUMATIC VEHICLE TIRES. PENNSYLVANIA RUBBER COMPANY OF AMERICA, Jeannette, Pa.
Filed June 4, 1928. Serial No. 267,450. PUBLISHED JULY 17, 1928. Class 35.

247,263. APPARATUS FOR DELIVERING MEASURED QUANTITIES OF LIQUID. SOCIÉTÉ ANONYME POUR TOUS APPAREILLAGES MÉCANIQUES, Levallois-Perret, France.
Filed June 2, 1928. Serial No. 267,396. PUBLISHED JULY 17, 1928. Class 26.

247,264. AUTOMATICALLY-REPEATING TIME-CLOCK-CONTROLLED TALKING MACHINES. ALOIS B. SALIGER, New York, N. Y.
Filed June 2, 1928. Serial No. 267,391. PUBLISHED JULY 17, 1928. Class 36.

247,265. FRESH DECIDUOUS FRUITS. GEORGE KOUNIAS, Modesto, Calif.
Filed June 2, 1928. Serial No. 267,365. PUBLISHED JULY 17, 1928. Class 46.

247,266. AUTOMOBILE TIRES AND INNER TUBES. CORDUROY TIRE COMPANY, Grand Rapids, Mich.
Filed June 2, 1928. Serial No. 267,353. PUBLISHED JULY 17, 1928. Class 35.

247,267. HOUSE ORGAN ISSUED PERIODICALLY. THE WASHINGTON PLANOGRAPH COMPANY, INC., Washington, D. C.
Filed June 1, 1928. Serial No. 267,328. PUBLISHED JULY 17, 1928. Class 38.

247,268. HANDKERCHIEF. GOLDBERG & VAN PRAAG, New York, N. Y.
Filed November 30, 1927. Serial No. 258,226. PUBLISHED JULY 17, 1928. Class 42.

247,269. CLOCK CASES. THE DE LUXE CLOCK & MFG. Co., INC., New York, N. Y.
Filed November 29, 1927. Serial No. 258,169. PUBLISHED JANUARY 17, 1928. Class 27.

247,270. TEXTILES OF COTTON IN THE PIECE. LORRAINE MANUFACTURING COMPANY OF NEW YORK, INC., New York, N. Y.
Filed November 23, 1927. Serial No. 257,987. PUBLISHED JULY 17, 1928. Class 42.

247,271. BREAD. MICHELE RONZONE, doing business as Sweetheart Baking Co., Elkhart, Ind.
Filed November 18, 1927. Serial No. 257,762. PUBLISHED JULY 3, 1928. Class 46.

247,272. CONDENSERS, INDUCTORS, PANELS, ETC. CHARLES M. SREBROFF, doing business as Radio Engineering Laboratories, Long Island City, N. Y.
Filed November 17, 1927. Serial No. 257,713. PUBLISHED JULY 17, 1928. Class 21.

247,273. DRAIN-OPENING CHEMICAL SOLVENT. ALBERT KOSSMAN, doing business as Kossman Chemical Co., New Orleans, La.
Filed November 12, 1927. Serial No. 257,479. PUBLISHED JULY 10, 1928. Class 6.

247,274. TOILET AND BATH SOAPS AND SHAVING SOAP. LUCIEN LELONG, Paris, France, assignor to Lucien Lelong, Inc., New York, N. Y., a Corporation of New York.
Filed November 7, 1927. Serial No. 257,166. PUBLISHED JULY 17, 1928. Class 4.

247,275. WORKMEN'S GLOVES AND MITTENS OF FABRIC AND LEATHER AND FABRIC. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed November 3, 1927. Serial No. 256,997. PUBLISHED JANUARY 31, 1928. Class 39.

247,276. CAPS, SCARFS, AND SWEATERS FOR MEN, WOMEN, AND CHILDREN. THE BAMBERGER-REINTHAL COMPANY, Cleveland, Ohio.
Filed October 28, 1927. Serial No. 256,710. PUBLISHED JULY 3, 1928. Class 39.

247,277. PERFUMES, EAU DE COLOGNE, TOILET WATERS, TOILET LOTIONS, FACE POWDERS, COMPACT POWDERS, SKIN CREAMS, ROUGE, AND LIP STICKS. SOCIETE PARISIENNE DES PRODUITS DE BEAUTE GANNA WALSKA, Paris, France.
Filed October 13, 1927. Serial No. 256,058. PUBLISHED JULY 10, 1928. Class 6.

247,278. SUPPOSITORIES AND OINTMENT FOR THE TREATMENT OF HEMORRHOIDS AND PILES. CARROLL DUNHAM SMITH PHARMACAL CO., New York, N. Y.
Filed October 7, 1927. Serial No. 255,774. PUBLISHED JULY 10, 1928. Class 6.

247,279. MEN'S ATHLETIC UNDERWEAR OF KNITTED OR TEXTILE FABRICS. A. S. HAIGHT & COMPANY, New York, N. Y.
Filed October 7, 1927. Serial No. 255,750. PUBLISHED JULY 3, 1928. Class 39.

247,280. GASOLINE, KEROSENE, AND LUBRICATING OILS AND GREASES. H. A. SCHMITT, Mandan, N. Dak.
Filed October 5, 1927. Serial No. 255,683. PUBLISHED JANUARY 31, 1928. Class 15.

247,281. WHEAT FLOUR AND SELF-RISING FLOUR. UNION CITY MILLING CO., Union City, Mich.
Filed September 23, 1927. Serial No. 255,142. PUBLISHED JANUARY 10, 1928. Class 46.

247,282. WASHING POWDER. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed September 23, 1927. Serial No. 255,132. PUBLISHED JULY 10, 1928. Class 4.

247,283. CERTAIN NAMED MEDICAL AND SURGICAL INSTRUMENTS, APPARATUS, AND PARTS THEREOF. E. F. MAHADY COMPANY, Boston, Mass.
Filed September 23, 1927. Serial No. 255,119. PUBLISHED JULY 17, 1928. Class 44.

247,284. OIL OF CEDARWOOD. GEORGE C. BROWN & COMPANY, Memphis, Tenn.
Filed April 18, 1928. Serial No. 265,033. PUBLISHED JUNE 26, 1928. Class 6.

247,285. MEDICINAL PREPARATION CONTAINING GUAIACOL AND CREOSOTE AND USED FOR COUGHS, COLDS, AND BRONCHIAL AND THROAT INFECTIONS. UNITED DRUG COMPANY, Boston, Mass.
Filed April 18, 1928. Serial No. 265,077. PUBLISHED JUNE 19, 1928. Class 6.

247,286. ASTRINGENTS, BEAUTY CREAMS, DRY ROUGES, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,957. PUBLISHED JUNE 26, 1928. Class 6.

247,287. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,956. PUBLISHED JUNE 19, 1928. Class 6.

247,288. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,952. PUBLISHED JUNE 19, 1928. Class 6.

247,289. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,953. PUBLISHED JUNE 19, 1928. Class 6.

247,290. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,954. PUBLISHED JUNE 19, 1928. Class 6.

247,291. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,955. PUBLISHED JUNE 19, 1928. Class 6.

247,292. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,951. PUBLISHED JUNE 19, 1928. Class 6.

247,293. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,950. PUBLISHED JUNE 19, 1928. Class 6.

247,294. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,949. PUBLISHED JUNE 19, 1928. Class 6.

247,295. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,948. PUBLISHED JUNE 19, 1928. Class 6.

247,296. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,946. PUBLISHED JUNE 19, 1928. Class 6.

247,297. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,947. PUBLISHED JUNE 19, 1928. Class 6.

247,298. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. HERMAN HENRY BERTRAM, New York, N. Y.
Filed April 17, 1928. Serial No. 264,945. PUBLISHED JUNE 19, 1928. Class 6.

247,299. POLISH OR GLOSS FOR CLEANING AND POLISHING AUTOMOBILE BODIES. SUPERLA LABORATORIES, INC., Chicago, Ill.
Filed April 16, 1928. Serial No. 264,923. PUBLISHED JULY 10, 1928. Class 16.

247,300. MEDICINAL WINE TONICS FOR USE AS A GENERAL TONIC. AMERICAN DRUGGISTS SYNDICATE, Long Island City, N. Y.
Filed April 17, 1928. Serial No. 264,937. PUBLISHED JUNE 26, 1928. Class 6.

247,301. FACE AND BODY MASSAGE CREAM. LOUIE E. ROBINSON, Council Bluffs, Iowa.
Filed April 16, 1928. Serial No. 264,913. PUBLISHED JUNE 26, 1928. Class 6.

247,302. PREPARATIONS FOR MAKING EFFERVESCENT DRINKS FROM POWDERS, TO FORM A REFRESHER ELIMINATING STOMACH TROUBLE, INDIGESTION, GAS, ACIDITY, DIZZINESS, NAUSEA, CONSTIPATION, AND TOXEMA. THE FLORET COMPANY, New York, N. Y.
Filed April 14, 1928. Serial No. 264,816. PUBLISHED JUNE 26, 1928. Class 6.

247,303. FROZEN CONFECTIONS. ESKIMO PIE CORPORATION, Louisville, Ky.
Filed April 9, 1928. Serial No. 264,571. PUBLISHED JULY 10, 1928. Class 46.

247,304. FRESH POTATOES. ALBERT MILLER & COMPANY, Chicago, Ill.
Filed May 17, 1928. Serial No. 266,505. PUBLISHED JULY 17, 1928. Class 46.

247,305. POULTRY FEED AND STOCK FEED—NAMELY, PIG MEAL, CALF MEAL, EGG MASH, BABY-CHICK STARTER, HOG FATTENER, DAIRY RATIONS, OIL MEAL, TANKAGE, AND MINERALIZED STOCK AND POULTRY FEEDS, MEAL FOR HORSES, MEAL FOR MULES, MEAL FOR SHEEP, AND MEAL FOR SWINE. FRED WILLIAM SIMPSON, doing business as Western States Farmers Exchange and Honey Dew Mills, Chicago, Ill.
Filed May 16, 1928. Serial No. 266,486. PUBLISHED JULY 3, 1928. Class 46.

247,306. SANITARY REFILL PAPER-BAG LININGS FOR GARBAGE CANS. LILLIAN MARSTON, Buffalo, N. Y.
Filed May 16, 1928. Serial No. 266,470. PUBLISHED JULY 10, 1928. Class 2.

247,307. PEARLS, NECKLACES, BRACELETS, EARRINGS, FINGER RINGS, BROOCHES, BAR PINS, AND ORNAMENTAL HATPINS, AND PINS FOR DRESS ORNAMENTS, ORNAMENTAL PINS AND BUCKLES FOR DECORATING HATS, ORNAMENTAL SHOE BUCKLES, AND HAIR ORNAMENTS, MADE WHOLLY OR IN PART OF OR PLATED WITH PRECIOUS METAL. COHN & ROSENBERGER, INC., New York, N. Y.
Filed May 16, 1928. Serial No. 266,457. PUBLISHED JULY 17, 1928. Class 28.

247,308. SORORITY PINS, BADGES, CHARMS, FINGER RINGS, LAPEL BUTTONS, CUFF LINKS, TIE CLASPS, AND BELT BUCKLES, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ALPHA DELTA THETA, Brooklyn, N. Y.
Filed May 16, 1928. Serial No. 266,451. PUBLISHED JULY 17, 1928. Class 28.

247,309. WOODEN CIGAR BOXES. LESCHEY MYERS CIGAR BOX CO., York, Pa.
Filed May 15, 1928. Serial No. 266,433. PUBLISHED JULY 10, 1928. Class 2.

247,310. WOODEN CIGAR BOXES. LESCHEY MYERS CIGAR BOX CO., York, Pa.
Filed May 15, 1928. Serial No. 266,432. PUBLISHED JULY 10, 1928. Class 2.

247,311. PAPER TOWELS. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif.
Filed May 15, 1928. Serial No. 266,418. PUBLISHED JULY 10, 1928. Class 37.

247,312. VENTILATING HINGES FOR DOORS, WINDOWS, AND TRANSOM WINDOWS. CLARK E. WEAVER, doing business as The Dor Vent Co., Kansas City, Mo.
Filed May 12, 1928. Serial No. 266,340. PUBLISHED JULY 17, 1928. Class 13.

247,313. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed May 12, 1928. Serial No. 266,310. PUBLISHED JULY 17, 1928. Class 42.

247,314. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed May 12, 1928. Serial No. 266,309. PUBLISHED JULY 17, 1928. Class 42.

247,315. WATCHES, WATCHCASES, WATCH MOVEMENTS, AND PARTS THEREOF. SAVOY WATCH CO., INC., New York, N. Y.
Filed May 11, 1928. Serial No. 266,272. PUBLISHED JULY 17, 1928. Class 27.

247,316. COTTON DUCK. JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y.
Filed May 11, 1928. Serial No. 266,237. PUBLISHED JULY 17, 1928. Class 42.

247,317. BABY-CHICK SCRATCH COMPOSED OF CRACKED CORN, CRACKED MILO, CRACKED KAFFIR, CRACKED WHEAT, AND MILLET; CHICK STARTER, RECLEANED CHOICE PINTO BEANS, RECLEANED BABY LIMA BEANS, CHOICE RECLEANED BLACK-EYE PEAS, HEN SCRATCH, LAYING MASH, AND DAIRY FEED. THE BLOTZ-HENNEMAN SEED CO., Clayton, N. Mex.
Filed May 11, 1928. Serial No. 266,236. PUBLISHED JULY 17, 1928. Class 46.

247,318. FINGER RINGS OF PRECIOUS METAL. SHUTTLES BROS. & LEWIS, Dallas, Tex.
Filed May 10, 1928. Serial No. 266,221. PUBLISHED JULY 17, 1928. Class 28.

247,319. BICYCLES. THE SHELBY CYCLE COMPANY, Shelby, Ohio.
Filed May 10, 1928. Serial No. 266,220. PUBLISHED JULY 17, 1928. Class 19.

247,320. WIRE FENCING. KOKOMO STEEL & WIRE CO., Kokomo, Ind.
Filed May 10, 1928. Serial No. 266,204. PUBLISHED JULY 10, 1928. Class 13.

247,321. POCKET FRICTION CIGAR LIGHTERS. M. E. BERNHARDT COMPANY, INC., New York, N. Y.
Filed May 9, 1928. Serial No. 266,167. PUBLISHED JULY 10, 1928. Class 34.

247,322. PYROPHORIC POCKET LIGHTERS. THE NAPIER CO., Meriden, Conn.
Filed May 9, 1928. Serial No. 266,146. PUBLISHED JULY 17, 1928. Class 34.

247,323. WHEAT FLOUR AND PLAIN FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed June 23, 1927. Serial No. 250,966. PUBLISHED MAY 15, 1928. Class 46.

247,324. ROASTED AND GROUND COFFEE, COFFEE AND CHICORY, TEAS, AND SPICES. SOUTHERN COFFEE MILLS, LIMITED, New Orleans, La.
Filed July 13, 1927. Serial No. 251,996. PUBLISHED SEPTEMBER 13, 1927. Class 46.

247,325. BUTTONS, BUCKLES, FANCY BAG FRAMES, BAG RINGS IN THE NATURE OF HANDLES, HATPINS, COMBS, FANS FOR PERSONAL USE, AND LOOSE BEADS NOT MADE OF PRECIOUS METALS. GREENHILL AND SONS, LTD., London, England.
Filed July 12, 1927. Serial No. 251,900. PUBLISHED JULY 10, 1928. Class 40.

247,326. CANDY BARS. LINCOLN CHOCOLATE AND CONFECTIONERY COMPANY, Philadelphia, Pa.
Filed July 7, 1927. Serial No. 251,623. PUBLISHED JULY 17, 1928. Class 46.

247,327. LUNG BALSAM. THE SHA-O-CHEM COMPANY, Trevorton, Pa.
Filed May 26, 1927. Serial No. 249,609. PUBLISHED JULY 10, 1928. Class 6.

247,328. ACOUSTICONS, INTERIOR COMMUNICATING TELEPHONE SYSTEMS, ETC. DICTAGRAPH PRODUCTS CORPORATION, New York, N. Y.
Filed May 25, 1927. Serial No. 249,514. PUBLISHED JULY 17, 1928. Class 21.

247,329. BOOK MATCHES. EDMUND FRIDOLIN PABST, doing business as Pabst Chemical Co., Chicago, Ill.
Filed March 17, 1928. Serial No. 263,339. PUBLISHED MAY 29, 1928. Class 9.

247,330. PAPER SUITABLE FOR USE IN MAKING ARTIFICIAL LEATHER. BROWN COMPANY, Portland, Me., and Berlin, N. H.
Filed March 16, 1928. Serial No. 263,254. PUBLISHED JULY 10, 1928. Class 37.

247,331. FEEDS AND DAIRY STOCK KNOWN AS 20 MILK RATION AND 24 DAIRY FEED. ST. ALBANS GRAIN COMPANY, St. Albans, Vt.
Filed March 14, 1928. Serial No. 263,176. PUBLISHED JULY 17, 1928. Class 46.

247,332. HORSE FEED. ST. ALBANS GRAIN COMPANY, St. Albans, Vt.
Filed March 14, 1928. Serial No. 263,175. PUBLISHED JULY 17, 1928. Class 46.

247,333. BRACELETS; CHAINS FOR PERSONAL ADORNMENT CONSISTING OF NECK CHAINS, WATCH CHAINS, AND KEY CHAINS; AND METAL ELASTIC BANDS FOR BRACELETS AND THE LIKE WHICH ARE MADE WHOLLY OR PARTLY OF PRECIOUS METAL. SPRIDEL BROS., Providence, R. I.
Filed March 10, 1928. Serial No. 262,941. PUBLISHED JULY 17, 1928. Class 28.

247,334. CERTAIN NAMED WEARING APPAREL. LILLIE TREDWELL (KREIPE), Chicago, Ill.
Filed March 10, 1928. Serial No. 262,916. PUBLISHED JULY 3, 1928. Class 39.

247,335. CERTAIN NAMED WEARING APPAREL. HYMAN & KAPLAN, Philadelphia, Pa.
Filed March 10, 1928. Serial No. 262,910. PUBLISHED JUNE 26, 1928. Class 39.

247,336. COVERLETS IN WHOLE OR IN PART OF COTTON. WOODWARD, BALDWIN & CO., New York, N. Y.
Filed March 7, 1928. Serial No. 262,784. PUBLISHED JULY 10, 1928. Class 42.

247,337. CERTAIN NAMED RUBBER GARMENTS, RUBBER OVERSHOES. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed March 6, 1928. Serial No. 262,671. PUBLISHED JULY 3, 1928. Class 39.

247,338. NECKTIES. GRUBER AND STEINBERG, St. Louis, Mo.
Filed March 1, 1928. Serial No. 262,456. PUBLISHED JULY 3, 1928. Class 39.

247,339. MEN'S AND BOYS' DRESS SHIRTS. A. S. TEICHMAN, Greensboro, N. C.
Filed February 29, 1928. Serial No. 262,430. PUBLISHED JULY 3, 1928. Class 39.

247,340. PUMPERNICKEL BREAD. JORDAN FOODS INC., also doing business as Jordan Inc., Chicago, Ill.
Filed February 29, 1928. Serial No. 262,404. PUBLISHED JULY 17, 1928. Class 46.

247,341. BEARINGS MADE OF HARD RUBBER. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed February 27, 1928. Serial No. 262,318. PUBLISHED JULY 17, 1928. Class 23.

247,342. FINGER RINGS, BAR PINS, BROOCHES, BRACELETS, NECKLACES, AND CLIPS MADE OF OR PLATED WITH PRECIOUS METAL GENERALLY USED FOR CARRYING FOLDED PAPER MONEY. S. BUCHSBAUM & CO., Chicago, Ill.
Filed February 18, 1928. Serial No. 261,858. PUBLISHED JULY 17, 1928. Class 28.

247,343. PIN FASTENERS. RAU FASTENER COMPANY, Providence, R. I.
Filed February 13, 1928. Serial No. 261,649. PUBLISHED JULY 3, 1928. Class 40.

247,344. WOODEN HOUSEHOLD FURNITURE—NAMELY, BEDS, DRESSERS, CHIFFONIERS, TOILET TABLES, NIGHT TABLES, CHAIRS, BENCHES, BUFFET TABLES, CABINETS, BOOKCASES, OCCASIONAL TABLES AND CHAIRS, SOFAS, END TABLES, DESKS, AND CARD TABLES. JOHNSON-HANDLEY-JOHNSON COMPANY, Grand Rapids, Mich.
Filed February 13, 1928. Serial No. 261,636. PUBLISHED JULY 17, 1928. Class 32.

247,345. PAPER NAPKINS. DANIELS MANUFACTURING COMPANY, Rhinelander, Wis.
Filed February 13, 1928. Serial No. 261,609. PUBLISHED JULY 10, 1928. Class 37.

247,346. ELECTRIC FANS, ELECTRIC MOTORS, ELECTRIC GENERATOR SETS, ELECTRIC POLISHING LATHES, AND ELECTRIC BUFFERS. MARATHON ELECTRIC MANUFACTURING COMPANY, Wausau, Wis.
Filed February 9, 1928. Serial No. 261,445. PUBLISHED JULY 17, 1928. Class 21.

247,347. HOSIERY. HARRY LICHT, New York, N. Y.
Filed February 7, 1928. Serial No. 261,319. PUBLISHED JULY 3, 1928. Class 39.

247,348. FRUIT LAXATIVE MADE OF PURE FRUIT PROPERLY MEDICATED AND NOT CONTAINING ANY DELETERIOUS DRUG. GOLDEN HIND LAXATIVE COMPANY, Northampton, Mass.
Filed February 7, 1928. Serial No. 261,312. PUBLISHED JULY 10, 1928. Class 6.

247,349. CHOCOLATE IN BAR FORM. THE AUTOMATIC MERCHANDIZER INC., Boston, Mass.
Filed May 20, 1927. Serial No. 249,255. PUBLISHED JULY 17, 1928. Class 46.

247,350. VENDING MACHINES. THE AUTOMATIC MERCHANDIZER INC., Boston, Mass.
Filed May 13, 1927. Serial No. 248,950. PUBLISHED JULY 17, 1928. Class 23.

247,351. MEN'S HATS. HUDSON HAT MANUFACTURING CO., INC., Nutley, N. J.
Filed May 4, 1927. Serial No. 248,410. PUBLISHED JULY 3, 1928. Class 39.

247,352. PARTIALLY-PRINTED LAUNDRY LISTS. DONALD THORP, Rutherford, N. J.
Filed April 29, 1927. Serial No. 248,206. PUBLISHED JULY 10, 1928. Class 37.

247,353. LINIMENT FOR USE IN THE TREATMENT OF RHEUMATISM, LUMBAGO, SORE FEET, STIFF NECK, BURNS, SPRAINS, BRUISES, CRAMPS, AND PLEURISY. THE PRIGLER COMPANY, Detroit, Mich.
Filed April 27, 1927. Serial No. 248,055. PUBLISHED JULY 10, 1928. Class 6.

247,354. CERTAIN NAMED WEARING APPAREL. JOSEPH HORDES, INC., New York, N. Y.
Filed February 15, 1927. Serial No. 244,400. PUBLISHED JULY 3, 1928. Class 39.

247,355. AUTOMOBILE ACCESSORIES—NAMELY, ELECTRICAL HORNS, ELECTRIC LAMPS, BATTERY CONNECTORS, IGNITION PARTS, AND SPARK PLUGS. INTER-STATE AUTO PARTS CO., INC., New York, N. Y.
Filed January 25, 1927. Serial No. 243,313. PUBLISHED JULY 17, 1928. Class 21.

247,356. SOAPS AND SHAMPOO-SOAP SOLUTIONS. LOCKWOOD, BRACKETT CO., Waltham, Mass.
Filed January 17, 1927. Serial No. 242,956. PUBLISHED JULY 17, 1928. Class 4.

247,357. BUTTER, EGGS, AND CHEESE. TILDEN PRODUCE COMPANY, St. Paul, Minn.
Filed January 4, 1927. Serial No. 242,356. PUBLISHED OCTOBER 11, 1927. Class 46.

247,358. PORTABLE RADIO RECEIVING SETS AND ANTENNÆ AND LOUD SPEAKERS ADAPTED TO BE USED IN CONNECTION WITH AUTO VEHICLES AND THE LIKE PORTABLE PURPOSES. HEINA RADIO CORPORATION, Long Island City, N. Y.
Filed November 12, 1926. Serial No. 239,983. PUBLISHED JULY 17, 1928. Class 21.

247,359. PRODUCT OF CORN IN FLAKE FORM. EVANS MILLING COMPANY, Indianapolis, Ind.
Filed July 13, 1926. Serial No. 234,468. PUBLISHED NOVEMBER 1, 1927. Class 46.

247,360. WARM-AIR FURNACES. LUCAS HEATING SYSTEMS, INC., Chicago, Ill.
Filed June 19, 1926. Serial No. 233,497. PUBLISHED JULY 10, 1928. Class 34.

247,361. WARDROBE TRUNKS, DRESS TRUNKS, CABIN OR STEAMER TRUNKS; SHOE, SHIRT-WAIST, AND HAT TRUNKS; HAT TRUNKS, SHOE OR BOOT TRUNKS, AND HAND LUGGAGE, SUCH AS VISITING CASES, PORTABLE WARDROBE TRUNKS, AND TAXI TRUNKS. THE OSHKOSH TRUNK COMPANY, Oshkosh, Wis.
Filed April 10, 1926. Serial No. 229,979. PUBLISHED JULY 3, 1928. Class 3.

247,362. RADIO RECEIVING APPARATUS AND EQUIPMENT, AND PARTICULARLY USED FOR RADIO-RECEIVING SETS, RADIOTRANSFORMERS, AUDIOTRANSFORMERS, FIXED CONDENSERS, VARIABLE CONDENSERS, RADIOCOILS, LOUD-SPEAKER UNITS, LOUD-SPEAKER HORNS, PLUGS, AERIALS, DIALS, PANELS, BATTERIES, BATTERY CHARGERS, BATTERY ELIMINATORS, HEADPHONES, INDUCTANCE UNITS, RHEOSTATS, STATIC REDUCERS, AND AMPLIFYING UNITS. PATHFINDER RADIO CORPORATION, Chicago, Ill.
Filed February 13, 1926. Serial No. 227,278. PUBLISHED JULY 20, 1926. Class 21.

247,363. PIANOS, PLAYER PIANOS, PLAYER ACTIONS, AND PARTS THEREOF. AUTOPIANO COMPANY, New York, N. Y.
Filed February 1, 1926. Serial No. 226,706. PUBLISHED APRIL 27, 1926. Class 36.

247,364. SHOE-POLISH CREAMS. GEO. J. KELLY, INC., Lynn, Mass.
Filed December 10, 1925. Serial No. 224,515. PUBLISHED JULY 17, 1928. Class 4.

247,365. COMMON AND SAFETY PINS. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn.
Filed March 18, 1925. Serial No. 211,236. PUBLISHED JULY 3, 1928. Class 40.

247,366. RADIO PARTS AND ACCESSORIES—NAMELY, TELEPHONE PLUGS, RHEOSTATS; DETECTORS—NAMELY, ELECTRON TUBES, CRYSTALS, AND CRYSTAL DETECTOR UNITS, POTENTIOMETERS, CONDENSERS, LEAKS, BATTERIES, EAR PHONES, AND AMPLIFIER HORNS. POLYMET MANUFACTURING CORPORATION, New York, N. Y.
Filed May 22, 1924. Serial No. 197,450. PUBLISHED MAY 22, 1928. Class 21.

247,367. BOOTS AND RELINERS FOR PNEUMATIC TIRES. JORDAN C. SKINNER, doing business as Skinner Boot & Reliner Company, Dayton, Ohio.
Filed April 3, 1924. Serial No. 194,953. PUBLISHED JULY 17, 1928. Class 35.

247,368. POSTERS OR FORM LETTERS AND ADVERTISING LITERATURE SOLD TO THE TRADE AS SUCH. NATIONAL PROCESS COMPANY, INC., New York, N. Y.
Filed March 25, 1924. Serial No. 194,407. PUBLISHED JULY 10, 1928. Class 38.

247,369. CANDLES. THE WHITE TAR COMPANY OF NEW JERSEY, INC., Kearny, N. J.
Filed March 22, 1928. Serial No. 263,630. PUBLISHED JULY 17, 1928. Class 15.

247,370. MILLINERY COMPRISING WOMEN'S, MISSES', AND CHILDREN'S HATS. L. BAMBERGER & COMPANY, Newark, N. J.
Filed March 28, 1928. Serial No. 263,850. PUBLISHED JULY 3, 1928. Class 39.

247,371. CHINA BATHROOM FIXTURES—NAMELY, TOWEL BARS, SOAP HOLDERS, TUMBLER HOLDERS, PAPER HOLDERS, TOWEL-BAR HOLDERS, AND GRAB-RAIL SOAP HOLDERS. CHARLES H. CHAMBERLAIN, Trenton, N. J.
Filed March 24, 1928. Serial No. 263,689. PUBLISHED JULY 10, 1928. Class 13.

247,372. DYES. EMERSON N. ABBOTT, Baldwin, N. Y.
Filed May 22, 1928. Serial No. 266,774. PUBLISHED JULY 10, 1928. Class 6.

247,373. MIRRORS. STANLEY E. RAUH, New York, N. Y.
Filed May 21, 1928. Serial No. 266,750. PUBLISHED JULY 17, 1928. Class 32.

247,374. CAMERAS AND PICTURE-PROJECTING MACHINES. THE Q R S COMPANY, Chicago, Ill.
Filed May 21, 1928. Serial No. 266,749. PUBLISHED JULY 17, 1928. Class 26.

247,375. MANICURE SETS, MANICURE IMPLEMENTS, AND PARTS THEREOF. PREMIER CUTLERY, INC., New York, N. Y.
Filed May 21, 1928. Serial No. 266,748. PUBLISHED JULY 17, 1928. Class 44.

247,376. A PERIODICAL. RAYMOND O. BARTELLS, Milwaukee, Wis.
Filed May 22, 1928. Serial No. 266,781. PUBLISHED JULY 17, 1928. Class 38.

247,377. MEDICINE USED IN THE TREATMENT OF PILES. ADRIANUS WILLEMS, Hardin, Mont.
Filed April 5, 1928. Serial No. 264,401. PUBLISHED JUNE 19, 1928. Class 6.

247,378. WATCHES, WATCHCASES, AND WATCH MOVEMENTS AND PARTS OF THE SAME. HELBEIN-STONE COMPANY, INC., doing business as Templar Watch Co., New York, N. Y.
Filed May 22, 1928. Serial No. 266,808. PUBLISHED JULY 17, 1928. Class 27.

247,379. CORN MEAL AND STOCK FEEDS FOR ALL CLASSES OF LIVESTOCK, SUCH AS POULTRY FEED, PIGEON FEED, HOG FEED, CATTLE FEED, HORSE AND MULE FEED, ETC. ROYAL FEED & MILLING COMPANY, doing business as Royal-Stafolife Mills, Memphis, Tenn.
Filed May 22, 1928. Serial No. 266,830. PUBLISHED JULY 17, 1928. Class 46.

247,380. TYPEWRITER RIBBONS. THE NELSON-EISMANN CO., Chicago, Ill.
Filed May 21, 1928. Serial No. 266,740. PUBLISHED JULY 17, 1928. Class 11.

247,381. LOCAL ANÆSTHETIC. PERDENTIN LABORATORIES, INC., New York, N. Y.
Filed May 21, 1928. Serial No. 266,744. PUBLISHED JULY 10, 1928. Class 6.

247,382. BANJOS. GIBSON, INC., Kalamazoo, Mich.
Filed May 17, 1928. Serial No. 266,524. PUBLISHED JULY 17, 1928. Class 36.

247,383. VEGETABLE AND CHEMICAL COMPOUND, ANTISEPTIC, HEALING, AND STYPTIC. ISAAC MITCHELL, doing business as Calendol Laboratories, Brooklyn, N. Y.
Filed May 9, 1928. Serial No. 266,172. PUBLISHED JUNE 26, 1928. Class 6.

247,384. EMMENAGOGUE. HAROLD C. JENKINS, doing business as Jenkins Pharmacal Co., Los Angeles, Calif.
Filed May 8, 1928. Serial No. 266,085. PUBLISHED JUNE 26, 1928. Class 6.

247,385. FLUXES AND WELDING AND BRAZING COMPOUNDS IN THE NATURE OF A FLUX. SIMPLEX FLUX & SOLDER COMPANY OF AMERICA, Cleveland, Ohio.
Filed May 7, 1928. Serial No. 266,052. PUBLISHED JUNE 26, 1928. Class 6.

247,386. CITRATE OF MAGNESIA. NATHANIEL J. SEGAL, doing business as Jend Drug Co., Baltimore, Md.
Filed May 23, 1928. Serial No. 266,891. PUBLISHED JULY 10, 1928. Class 6.

247,387. SILK PIECE GOODS. SUSQUEHANNA SILK MILLS, New York, N. Y.
Filed May 23, 1928. Serial No. 266,897. PUBLISHED JULY 17, 1928. Class 42.

247,388. VARNISH. FRANK W. DUNNE CO., Oakland, Calif.
Filed May 22, 1928. Serial No. 266,798. PUBLISHED JULY 10, 1928. Class 16.

247,389. HAIR POMADE. MY-RO-LA MANUFACTURING COMPANY, Toledo, Ohio.
Filed February 20, 1928. Serial No. 261,978. PUBLISHED JUNE 26, 1928. Class 6.

247,390. PREPARATIONS FOR TREATMENT OF AILMENTS OF THE HEART, HAIR TONICS, TOILET POWDERS, TOILET CREAMS, AND ROUGES, AND PERFUMES. CHEMISCH-PHARMAZEUTISCHE A. G. BAD HOMBURG, Bad Homburg, Germany.
Filed February 18, 1928. Serial No. 261,864. PUBLISHED JUNE 26, 1928. Class 6.

247,391. HEMORRHOIDAL SUPPOSITORIES AND SALVES AND PREPARATIONS TO RELIEVE ITCHING, HAIR TONICS, TOILET POWDERS, TOILET CREAMS AND ROUGES, AND PERFUME. CHEMISCH-PHARMAZEUTISCHE A. G. BAD HOMBURG, Bad Homburg, Germany.
Filed February 18, 1928. Serial No. 261,863. PUBLISHED JUNE 26, 1928. Class 6.

247,392. MAYONNAISE AND SALAD DRESSINGS. MUSHER AND COMPANY, Washington, D. C.
Filed May 8, 1928. Serial No. 266,090. PUBLISHED JULY 10, 1928. Class 46.

247,393. MEDICINE FOR CONSTIPATION, CHRONIC CATARRH, AND STOMACH DISORDERS. KURASIEWICZ & PLUDOWSKI, Chicago, Ill.
Filed May 7, 1928. Serial No. 266,035. PUBLISHED JUNE 26, 1928. Class 6.

247,394. MEDICINE FOR VENEREAL DISEASES. KURASIEWICZ & PLUDOWSKI, Chicago, Ill.
Filed May 7, 1928. Serial No. 266,034. PUBLISHED JUNE 26, 1928. Class 6.

247,395. HONEY. THE JOHN G. PATON COMPANY, INC., New York, N. Y.
Filed May 4, 1928. Serial No. 265,925. PUBLISHED JULY 10, 1928. Class 46.

247,396. PREPARATION FOR THE TREATMENT OF TEXTILE FIBRES, PARTICULARLY FOR IMPROVING AND PRESERVING THE SAME. HYCROLIT INCORPORATED, Kearny, N. J.
Filed May 4, 1928. Serial No. 265,906. PUBLISHED JUNE 26, 1928. Class 6.

247,397. LIP STICK. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed May 4, 1928. Serial No. 265,904. PUBLISHED JUNE 26, 1928. Class 6.

247,398. CHEMICAL FORMULA IN TUBES AND USED TO APPLY TO CUTS FOR STOPPING THE FLOW OF BLOOD. ROY M. WILSON, doing business as The Sha-Vex Co., Burlingame, Calif.
Filed May 3, 1928. Serial No. 265,869. PUBLISHED JUNE 26, 1928. Class 6.

247,399. PREPARATION REPELLENT TO MOSQUITOES, GNATS, BLACK FLIES, MIDGES, AND OTHER INSECTS AND SERVING ALSO AS AN EMOLLIENT FOR SUNBURN AND WINDBURN. CHARLES SCHLESINGER, doing business as The Chasom Co., New York, N. Y.
Filed May 3, 1928. Serial No. 265,859. PUBLISHED JUNE 26, 1928. Class 6.

247,400. PHOTOGRAPHIC DEVELOPER. PHOTO CHEMICAL COMPANY, INC., Philadelphia, Pa.
Filed May 3, 1928. Serial No. 265,855. PUBLISHED JUNE 26, 1928. Class 6.

247,401. CAPSULES FOR TREATMENT OF HEADACHE. EUGENE F. HERMAN, doing business as Gene Pharmacal Company, Cincinnati, Ohio.
Filed May 3, 1928. Serial No. 265,842. PUBLISHED JUNE 26, 1928. Class 6.

247,402. MEDICINAL PREPARATION USED IN THE TREATMENT OF RHEUMATISM. MAURICE KIVOWITZ, Youngstown, Ohio.
Filed May 2, 1928. Serial No. 265,796. PUBLISHED JUNE 26, 1928. Class 6.

247,403. SANITARY NAPKINS. CHARLES K. THAU, doing business as The Laura Hair Novelty Co., New York, N. Y.
Filed May 1, 1928. Serial No. 265,739. PUBLISHED JULY 10, 1928. Class 44.

247,404. DEMULCENT TOILET CREAM, A REMEDY FOR DRYNESS OF THE SKIN. LUTTIES PHARMACAL COMPANY, St. Louis, Mo.
Filed April 30, 1928. Serial No. 265,669. PUBLISHED JUNE 19, 1928. Class 6.

247,405. POLISHING COMPOUND FOR AUTOMOBILES, FURNITURE, AND WOODWORK. GEORGE E. GROSSMAN, doing business as G-G Products Company, Cleveland Heights, Ohio.
Filed April 30, 1928. Serial No. 265,641. PUBLISHED JULY 10, 1928. Class 16.

247,406. MEDICAL BANDAGES, BANDS, AND BELTS, BREAST AND BACK COVERS, KNEE AND ELBOW PIECES. AUGUSTE DELUBAC, Vals-les-Bains, France.
Filed April 30, 1928. Serial No. 265,627. PUBLISHED JULY 10, 1928. Class 44.

247,407. CHEMICAL COMPOUNDS EMPLOYED AS ANTIOXIDANTS IN THE MANUFACTURE OF VULCANIZED-RUBBER ARTICLES. THE RUBBER SERVICE LABORATORIES COMPANY, Akron, Ohio.
Filed April 28, 1928. Serial No. 265,573. PUBLISHED JUNE 26, 1928. Class 6.

247,408. CHEMICAL COMPOUNDS EMPLOYED AS ANTIOXIDANTS IN THE MANUFACTURE OF VULCANIZED-RUBBER ARTICLES. THE RUBBER SERVICE LABORATORIES COMPANY, Akron, Ohio.
Filed April 28, 1928. Serial No. 265,572. PUBLISHED JUNE 26, 1928. Class 6.

247,409. COMPOUND USED AS A VULCANIZATION ACCELERATOR IN THE CURING OF RUBBER ARTICLES. THE RUBBER SERVICE LABORATORIES COMPANY, Akron, Ohio.
Filed April 28, 1928. Serial No. 265,571. PUBLISHED JUNE 26, 1928. Class 6.

247,410. COMPOSITION EMPLOYED IN THE ACID TREATMENT OF METALS OR METAL PRODUCTS. THE RUBBER SERVICE LABORATORIES COMPANY, Akron, Ohio.
Filed April 28, 1928. Serial No. 265,570. PUBLISHED JUNE 26, 1928. Class 6.

247,411. GAME PLAYED WITH CARDS WHICH WILL ENABLE THE PLAYER TO LEARN TO READ MUSIC. PEARL S. PRICE, Buffalo, N. Y.
Filed April 28, 1928. Serial No. 265,560. PUBLISHED JULY 10, 1928. Class 20.

247,412. CHOCOLATE, COCOA, FRUIT PRESERVES, ETC. SCHOKOLADENFABRIK MAUXION M. B. H., Saalfeld, Germany.
Filed February 26, 1927. Serial No. 244,961. PUBLISHED JULY 10, 1928. Class 46.

247,413. CHEESE, CANNED PORK AND BEANS, CANNED AND PRESERVED FRUITS AND VEGETABLES; CANNED AND PRESERVED BERRIES, JAMS, AND MARMALADES; CANNED SALMON; THE CONDIMENTS CATSUP, OLIVES, CHILI SAUCE, MUSTARD, AND SWEET RELISH; AND DRIED BEEF. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed February 16, 1927. Serial No. 244,452. PUBLISHED NOVEMBER 1, 1927. Class 46.

247,414. FACE CREAMS, COMPLEXION CREAMS, TOILET CREAMS, MASSAGE CREAMS, TOILET POWDERS, ROUGE, LIP STICK, TOILET WATER, EYEBROW PENCILS, DEPILATORIES, HAIR TONICS, SHAMPOOS, PERFUMES, BATH POWDERS, AND BATH SALTS. TOKALON CHEMICAL CORPORATION, New York, N. Y.
Filed October 26, 1926. Serial No. 239,277. PUBLISHED JUNE 19, 1928. Class 6.

247,415. QUININE SOLUTIONS FOR INTRAMUSCULAR INJECTIONS USED IN TREATING CROUPOUS PNEUMONIA, MALARIA, AND FOR INCREASING THE FREQUENCY OF LABOR PAINS IN CHILDBIRTH; CHEMICAL PREPARATIONS USED AS INSECT, RODENT, AND PLANT EXTERMINATORS; AND CHEMICAL FOOD PRESERVATIVES. CHEMISCH PHARMAZEUTISCHE A. G. BAD HOMBURG, Bad Homburg, Germany.
Filed February 18, 1928. Serial No. 261,862. PUBLISHED JUNE 26, 1928. Class 6.

247,416. EAU DE COLOGNE WATER, PERFUMERY, HAIR TONICS, SHAMPOO, BRILLIANTINE, COLD CREAM, VANISHING CREAM, ROUGE, FACE POWDER, BABY POWDER, SHAVING LOTION FOR USE AFTER SHAVING, TOOTH PASTE, MOUTH WASH, HEAD TONICS, ETHEREAL OILS FOR PERFUMES. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" Gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany.
Filed February 17, 1928. Serial No. 261,801. PUBLISHED JUNE 19, 1928. Class 6.

247,417. COSMETICS FOR THE SKIN IN THE FORM OF PASTE, CREAM, OR JELLY. MARY E. ROWDEN, doing business as Belcano Company, Cleveland Heights, Ohio.
Filed February 9, 1928. Serial No. 261,456. PUBLISHED JUNE 26, 1928. Class 6.

247,418. COUGH SYRUP. SMITH BROTHERS, INC., Poughkeepsie, N. Y.
Filed February 8, 1928. Serial No. 261,396. PUBLISHED JUNE 26, 1928. Class 6.

247,419. WHEAT FLOUR, ROLLED OATS, CANNED EVAPORATED MILK, CANNED FRUITS, CANNED SARDINES, CANNED SALMON, FRESH APPLES, AND TEA. WM. FISHER & CO., San Francisco, Calif.
Filed February 3, 1928. Serial No. 261,102. PUBLISHED JULY 10, 1928. Class 46.

247,420. MALT EXTRACT. CORT MOSSIDES, Barberton, Ohio.
Filed January 30, 1928. Serial No. 260,902. PUBLISHED JULY 10, 1928. Class 46.

247,421. TELEPHONIC APPARATUS FOR THE AID OF DEAF PERSONS. ORAVOX LTD., London, England.
Filed January 28, 1928. Serial No. 260,843. PUBLISHED JULY 10, 1928. Class 44.

247,422. PERFUMES, FACE CREAMS, FACE POWDERS, AND BRILLIANTINE. GEORGE M. FRANKS, doing business as George Franks Co., St. Paul, Minn.
Filed January 10, 1928. Serial No. 259,906. PUBLISHED JUNE 19, 1928. Class 6.

247,423. FACE POWDER, TALCUM POWDER, COLD CREAM, VANISHING CREAM, BLEACH CREAM, HAND LOTION, AFTER-SHAVING LOTION, TAN AND FRECKLE OINTMENT, TOOTH PASTE, BATH SALT, BATH POWDER, SACHET POWDER, PERFUME, TOILET WATER, ROUGE, LIP STICK, ASTRINGENT, AND BLEACH, SHAMPOO, AND PERSPIRATION POWDER. MARY B. OESER, doing business as The Mary B. Oeser Products Co., Terre Haute, Ind.
Filed January 4, 1928. Serial No. 259,689. PUBLISHED JUNE 26, 1928. Class 6.

247,424. INFANTS' FOOD. SCHWEIZ. KINDERMEHL-FABRIK, Belp, Switzerland.
Filed December 19, 1927. Serial No. 259,138. PUBLISHED JULY 10, 1928. Class 46.

247,425. SHAMPOO. PAULA S. EILERS, Los Angeles, Calif.
Filed November 14, 1927. Serial No. 257,537. PUBLISHED JUNE 19, 1928. Class 6.

247,426. PICKLES, HOT VEGETABLE RELISHES, SWEET PICKLE RELISHES. EAGLE FOOD PRODUCTS CORPORATION, Memphis, Tenn.
Filed November 3, 1927. Serial No. 257,005. PUBLISHED JULY 10, 1928. Class 46.

247,427. GOLF BAGS, FISHING-REEL BAGS, GOLF BALLS, AND OTHER NAMED SPORTING GOODS. BRAUER BROS. INC., St. Louis, Mo.
Filed July 1, 1927. Serial No. 251,384. PUBLISHED JULY 10, 1928. Class 22.

247,428. COASTER WAGONS AND SCOOTERS. PIGGLY WIGGLY CORPORATION, Memphis, Tenn.
Filed June 24, 1927. Serial No. 251,081. PUBLISHED JULY 10, 1928. Class 22.

247,429. BATTERY SEPARATORS. ELI P. FAY, Los Angeles, Calif.
Filed August 24, 1927. Serial No. 253,877. PUBLISHED JULY 17, 1928. Class 21.

247,430. VACUUM JARS FOR THE STORAGE OF FOOD PRODUCTS. ESKIMO PIE CORPORATION, Louisville, Ky.
Filed April 30, 1928. Serial No. 265,629. PUBLISHED JULY 10, 1928. Class 2.

247,431. PERFUMES, PERFUME EXTRACTS, BATH SALTS, TALCUM POWDERS, FACE POWDER, BODY POWDER, DUSTING POWDER, SACHET POWDER, TOILET WATER, TOILET CREAMS, BRILLIANTINE, HAIR TONICS, LIP STICKS, ROUGE, POWDER COMPACTS, BULK PERFUMES, ROUGE COMPACTS, EYEBROW PENCILS, VANISHING CREAMS, CLEANSING CREAMS, SHAMPOO POWDERS, EAU DE COLOGNE; BODY, FACE, FOOT, AND HAND LOTIONS. D'ORSAY PERFUMERIES CORPORATION, New York, N. Y.
Filed August 11, 1927. Serial No. 253,316. PUBLISHED JUNE 19, 1928. Class 6.

247,432. EGGS. WHITEHEAD BROS., Riverside, Calif.
Filed August 17, 1927. Serial No. 253,614. PUBLISHED OCTOBER 4, 1927. Class 46.

247,433. LAUNDRY WASHING MACHINES. HANDI-APPLIANCE CORPORATION, Buffalo, N. Y.
Filed April 30, 1928. Serial No. 265,643. PUBLISHED JULY 10, 1928. Class 24.

247,434. SPRAYERS AND SPRAYING ATTACHMENT FOR HOUSEHOLD AND INDUSTRIAL USES. HUDSON MANUFACTURING CO., Minneapolis, Minn.
Filed April 30, 1928. Serial No. 265,647. PUBLISHED JULY 17, 1928. Class 23.

247,435. CHEMICALLY-PREPARED FERTILIZER. ALEXANDER BASIL KENSINGTON, London, England.
Filed April 30, 1928. Serial No. 265,663. PUBLISHED JULY 10, 1928. Class 10.

247,436. BARE AND INSULATED ELECTRICAL WIRES AND CABLES. GENERAL CABLE CORPORATION, New York, N. Y.
Filed May 2, 1928. Serial No. 265,788. PUBLISHED JULY 17, 1928. Class 21.

247,437. ARTIFICIAL TEETH. UNIVERAL DENTAL COMPANY, Philadelphia, Pa.
Filed May 2, 1928. Serial No. 265,817. PUBLISHED JULY 17, 1928. Class 44.

247,438. PAPER AND CLOTH BOXES OF ALL DESCRIPTIONS, AND MERCHANDISE FOLDERS. ALBRECHT-BECHTOLD, INC., Philadelphia, Pa.
Filed May 3, 1928. Serial No. 265,822. PUBLISHED JULY 10, 1928. Class 2.

247,439. ELECTRIC RANGES. GREAT WESTERN STOVE CO., Leavenworth Kans.
Filed May 3, 1928. Serial No. 265,839. PUBLISHED JULY 17, 1928. Class 21.

247,440. WRITING PAPER AND ENVELOPES. THE RYTEX COMPANY, Indianapolis, Ind.
Filed May 3, 1928. Serial No. 265,857. PUBLISHED JULY 10, 1928. Class 37.

247,441. MEDICINE FOR USE IN THE TREATMENT OF HIGH BLOOD PRESSURE. LETAC CHEMICAL CO., INC., New York, N. Y.
Filed May 5, 1928. Serial No. 265,974. PUBLISHED JULY 10, 1928. Class 6.

247,442. PIES. MASSACHUSETTS PIE BAKING COMPANY, Fall River, Mass.
Filed May 5, 1928. Serial No. 265,977. PUBLISHED JULY 17, 1928. Class 46.

247,443. WATCHES. JOSEPH M. PLAUT, doing business as Data Watch Company, Cincinnati, Ohio.
Filed May 5, 1928. Serial No. 265,983. PUBLISHED JULY 17, 1928. Class 27.

247,444. REFRIGERATORS, REFRIGERATOR PARTS, AUTOMATIC REFRIGERATORS, AUTOMATIC REFRIGERATING PARTS, AND REFRIGERATING SYSTEMS. SERVEL, INC., New York, N. Y.
Filed May 5, 1928. Serial No. 265,987. PUBLISHED JULY 10, 1928. Class 31.

247,445. CORRUGATED-PAPER SHIPPING CONTAINERS. SUPERIOR PAPER PRODUCTS COMPANY, Carnegie, Pa.
Filed May 5, 1928. Serial No. 265,996. PUBLISHED JULY 17, 1928. Class 2.

247,446. ELECTRIC HEALTH APPLIANCE BELTS. IDA GUSSAROFF, doing business as The I-D-A Health-O-Gram Co. (Not Inc.), Grand Rapids, Mich.
Filed May 7, 1928. Serial No. 266,028. PUBLISHED JULY 17, 1928. Class 44.

247,447. METAL CULVERT PIPE. VIRGINIA METAL MANUFACTURING CO., Roanoke, Va.
Filed May 5, 1928. Serial No. 265,998. PUBLISHED JULY 10, 1928. Class 13.

247,448. BACTERICIDAL AND GERMICIDAL ANTISEPTIC SOLUTION FOR THE TREATMENT OF SORE THROAT, TONSILLITIS, CATARRH, AND PYORRHEA. WILBUR T. HURT, doing business as Throatex Laboratories, Hollywood, Calif.
Filed May 7, 1928. Serial No. 266,030. PUBLISHED JULY 10, 1928. Class 6.

247,449. RAZORS AND RAZOR BLADES. HENRY B. WOMACK, doing business as Birmingham Grinding Works, Birmingham, Ala.
Filed May 7, 1928. Serial No. 266,069. PUBLISHED JULY 17, 1928. Class 23.

247,450. CALCULATORS. HAROLD S. ZEWISKE, doing business as Baby Calculator Sales Company, Chicago, Ill.
Filed May 8, 1928. Serial No. 266,114. PUBLISHED JULY 17, 1928. Class 26.

247,451. STEAM PRESSING IRONS, STEAM PRESSING APPLIANCES, VAPORIZERS, IRONING BOARDS, STEAM PRESSING TABLES, AND ACCESSORIES FOR LAUNDRY USE. CANNON ENGINEERING COMPANY, Jamaica, N. Y.
Filed May 9, 1928. Serial No. 266,124. PUBLISHED JULY 17, 1928. Class 24.

247,452. SUPPORTS FOR THE ARCHES AND OTHER PARTS OF THE FEET. ARROWSMITH MANUFACTURING COMPANY, New York, N. Y.
Filed May 2, 1927. Serial No. 248,270. PUBLISHED JULY 17, 1928. Class 44.

247,453. GRAPE SYRUP FOR FLAVORING BEVERAGES AND FOODS. UNITED GRAPE PRODUCTS, INC., Buffalo, N. Y.
Filed April 20, 1928. Serial No. 265,176. PUBLISHED JULY 17, 1928. Class 45.

247,454. LOCKS. THE BASSETT METAL GOODS COMPANY, INC., Shelton, Conn.
Filed April 19, 1928. Serial No. 265,086. PUBLISHED JULY 10, 1928. Class 25.

247,455. SILK PIECE GOODS. STEHLISILKS CORPORATION, New York, N. Y.
Filed April 18, 1928. Serial No. 265,073. PUBLISHED JULY 17, 1928. Class 42.

247,456. SILK PIECE GOODS. STEHLISILKS CORPORATION, New York, N. Y.
Filed April 18, 1928. Serial No. 265,072. PUBLISHED JULY 17, 1928. Class 42.

247,457. HOSIERY. BOWER & KAUFMANN, Philadelphia, Pa.
Filed April 18, 1928. Serial No. 265,031. PUBLISHED JULY 3, 1928. Class 39.

247,458. TOILET WATER, COLD CREAM, VANISHING CREAM, PREPARATION FOR BUILDING TISSUE, CLEANSING CREAM, TALCUM POWDER, BODY POWDER, FACE POWDER, DUSTING POWDER, DEODORANT, BANDOLINE, BRILLIANTINE, LIP STICK, ROUGE, COMPACTS, EYEBROW PENCIL, POWDER COMPACTS, PERFUME, SKIN LOTION, ASTRINGENT, SHAMPOO, VEGETABLE BATH SALTS, HAIR TONIC, AND TISSUE CREAM. PEOPLES DRUG STORES, INC., doing business as Moret Parfumeur, Washington, D. C.
Filed April 17, 1928. Serial No. 265,010. PUBLISHED JULY 10, 1928. Class 6.

247,459. MEN'S, WOMEN'S, AND CHILDREN'S RAINCOATS. NEWTOWNE MANUFACTURING COMPANY, Boston, Mass.
Filed April 17, 1928. Serial No. 264,999. PUBLISHED JULY 3, 1928. Class 39.

247,460. SILKS IN THE PIECE. DUPLEX SILK MILLS, INC., New York, N. Y.
Filed April 17, 1928. Serial No. 264,971. PUBLISHED JULY 3, 1928. Class 42.

247,461. HARD OR SEMIHARD CRACKERS, WAFERS, OR BISCUITS. KEEBLER WEYL BAKING CO., Philadelphia, Pa.
Filed April 16, 1928. Serial No. 264,885. PUBLISHED JULY 17, 1928. Class 46.

247,462. GASOLINE. CHAMPLIN REFINING COMPANY, Enid, Okla.
Filed April 16, 1928. Serial No. 264,871. PUBLISHED JULY 17, 1928. Class 15.

247,463. MEN'S AND BOY'S CLOTHING—NAMELY, COATS, PANTS, VESTS, AND OVERCOATS. S. GINSBERG SONS, Baltimore, Md.
Filed April 14, 1928. Serial No. 264,819. PUBLISHED JULY 3, 1928. Class 39.

247,464. SHEET PACKING. THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn.
Filed April 14, 1928. Serial No. 264,815. PUBLISHED JULY 17, 1928. Class 35.

247,465. PHOTO PRINTS. KENNELL-ELLIS STUDIOS, Salem, Oreg.
Filed April 14, 1928. Serial No. 264,794. PUBLISHED JULY 17, 1928. Class 38.

247,466. RAYON UNDERWEAR FOR WOMEN AND CHILDREN. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed April 11, 1928. Serial No. 264,681. PUBLISHED JULY 3, 1928. Class 39.

247,467. WRIST AND ANKLE SUPPORTERS, ATHLETIC SUPPORTERS (ELASTIC AND ALUMINUM), AND BANDAGES (ELASTIC). A. J. REACH COMPANY, Philadelphia, Pa.
Filed April 10, 1928. Serial No. 264,653. PUBLISHED JULY 17, 1928. Class 44.

247,468. CANNED CORN. PORTLAND PACKING CO., Portland, Me.
Filed April 10, 1928. Serial No. 264,652. PUBLISHED JULY 17, 1928. Class 46.

247,469. SELF-RISING FLOUR. THE CARR MILLING COMPANY, Hamilton, Ohio.
Filed April 10, 1928. Serial No. 264,635. PUBLISHED JULY 3, 1928. Class 46.

247,470. WATERPROOF BOXES AND RECEPTACLES WORN OR CARRIED BY SPORTSMEN, HUNTERS, FISHERMEN, BATHERS, OR PERSONS ENGAGED IN OUTDOOR SPORTS, PASTIMES, OR OCCUPATIONS FOR CONTAINING CIGARETTES, TOBACCO, MATCHES, JEWELRY, KEYS, MONEY, AND THE LIKE. DANIEL H. STRAYER, Venice, Calif.
Filed April 9, 1928. Serial No. 264,617. PUBLISHED JULY 10, 1928. Class 2.

247,471. SOLIDIFIED CARBON DIOXIDE. ESKIMO PIE CORPORATION, Louisville, Ky.
Filed April 9, 1928. Serial No. 264,572. PUBLISHED JULY 10, 1928. Class 6.

247,472. COCOANUT SHAMPOO, PERFUME, TOILET WATER, VANISHING CREAM, CLEANSING CREAM, BATH CRYSTALS, FACE POWDER, DENTAL CREAM, NAIL POLISH, AND ANTISEPTIC. FEDERAL DISTRIBUTORS, INC., doing business as the Lucky Girl Company, Portland, Oreg.
Filed April 7, 1928. Serial No. 264,510. PUBLISHED JULY 10, 1928. Class 6.

247,473. NIGHT TABLE AND NURSERY LAMPS. JAMES F. WHELAN, Philadelphia, Pa.
Filed May 19, 1928. Serial No. 266,697. PUBLISHED JULY 17, 1928. Class 21.

247,474. NONCEREAL, MALTLESS BEVERAGES. DR. V. A. AVAKIAN COMPANY, Chattanooga, Tenn.
Filed April 30, 1928. Serial No. 265,609. PUBLISHED JULY 17, 1928. Class 45.

247,475. CERTAIN NAMED WEARING APPAREL MADE OF LEATHER. STERN BROTHERS, New York, N. Y.
Filed January 31, 1928. Serial No. 260,966. PUBLISHED JULY 3, 1928. Class 39.

247,476. VALVE-RESEATING TOOLS. HOWSER VALVE TOOL MANUFACTURING CO., La Porte, Ind.
Filed January 30, 1928. Serial No. 260,880 PUBLISHED JULY 17, 1928. Class 23.

247,477. FISH CLEANING, BONING, AND CUTTING MACHINES; FISH-HEADING MACHINES, FISH-SLICING MACHINES, FISH-WASHING MACHINES, AND FISH-CANNING MACHINES. FISADCO LIMITED, London, England.
Filed January 23, 1928. Serial No. 260,498. PUBLISHED JULY 17, 1928. Class 23.

247,478. READY-MIXED PAINTS, PASTE PAINT, AND PAINT COLORS. EVERSEAL MANUFACTURING CO. INC., New York, N. Y.
Filed January 17, 1928. Serial No. 260,219. PUBLISHED MARCH 27, 1928. Class 16.

247,479. PARTIALLY-PRINTED FORMS FOR SECRETARIAL PAPERS, FORMS FOR ACCOUNTANTS, PAPERS, AND REPORT FORMS, INVOICE FORMS, MEMORANDUM PADS, FILE WRAPPERS, OFFICE FILING FOLDERS, NOTE PAPER, LETTER PAPER, MAILING ENVELOPES, HAND BLOTTERS, AND DESK BLOTTERS. ABC SERVICE, Chicago, Ill.
Filed January 7, 1928. Serial No. 259,786. PUBLISHED JULY 17, 1928. Class 37.

247,480. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SILBERMANN, KOHN & WALLENSTEIN INC., New York, N. Y.
Filed January 6, 1928. Serial No. 259,784. PUBLISHED JULY 17, 1928. Class 28.

247,481. BIRD TONIC. MICHAEL ANDERSON, Dayton, Ohio.
Filed January 3, 1928. Serial No. 259,612. PUBLISHED JULY 10, 1928. Class 6.

247,482. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. KLEBANOFF & GROSSMAN, New York, N. Y.
Filed December 29, 1927. Serial No. 259,450. PUBLISHED JULY 17, 1928. Class 28.

247,483. MEDICINE FOR DYSPEPSIA, HEARTBURN, AND STOMACH TROUBLES. NATHAN DRUCKER, doing business as Stop Remedy Co., Newport, Ky.
Filed December 21, 1927. Serial No. 259,224. PUBLISHED JULY 10, 1928. Class 6.

247,484. WHEAT FLOUR. SHELLABARGER MILLS & ELEVATOR COMPANY, doing business as Shellabarger Mills, Salina, Kans.
Filed December 7, 1927. Serial No. 258,599. PUBLISHED JULY 17, 1928. Class 46.

247,485. GRAIN-TREATING MATERIALS, SPECIFICALLY LIQUID, POWDERED, AND GASEOUS CHEMICALS FOR COMBATING SMUT AND KINDRED GROWTHS. GAS GRAIN TREATER CO., Portland, Oreg.
Filed December 6, 1927. Serial No. 258,524. PUBLISHED JULY 10, 1928. Class 6.

247,486. ALUMINUM KITCHEN UTENSILS—NAMELY, POTS AND PANS, BEVERAGE MIXERS, TRAYS; COFFEE BOILERS, PERCOLATORS, AND POTS; COLANDERS, KETTLES, COVERS, CRUMB TRAYS AND SCRAPERS, DIPPERS, DISHPANS, FRYING PANS, OMELET PANS, MIXING BOWLS, PRESERVING KETTLES, ROASTERS, SINK STRAINERS, SKILLETS, PITCHERS, TEA KETTLES, TEAPOTS, WASH BASINS, WATERLESS FOOD COOKERS, OVENETTES, GRIDDLES, CAMP SETS, AND FOOD COOKERS. MONTGOMERY WARD & CO. INCORPORATED, Chicago, Ill.
Filed December 5, 1927. Serial No. 258,479. PUBLISHED JULY 17, 1928. Class 13.

247,487. CHILDREN'S CHAIRS, TABLES, AND ROCKING-CHAIRS. THE BUCKSTAFF COMPANY, Oshkosh, Wis.
Filed December 5, 1927. Serial No. 258,459. PUBLISHED JULY 17, 1928. Class 32.

247,488. CHILDREN'S CHAIRS, TABLES, AND ROCKING-CHAIRS. THE BUCKSTAFF COMPANY, Oshkosh, Wis.
Filed December 5, 1927. Serial No. 258,458. PUBLISHED JULY 17, 1928. Class 32.

247,489. FRESH APPLES. EARL FRUIT COMPANY, Wenatchee, Wash.
Filed October 1, 1927. Serial No. 255,494. PUBLISHED FEBRUARY 21, 1928. Class 46.

247,490. TYPE CLEANER. JARRETT TYPE CLEANER, INC., New York, N. Y.
Filed March 22, 1928. Serial No. 263,605. PUBLISHED JULY 17, 1928. Class 4.

247,491. WOOL DRESS GOODS. FRIEDRICH ARNOLD, Greiz, Germany.
Filed March 22, 1928. Serial No. 263,600. PUBLISHED JULY 10, 1928. Class 42.

247,492. COMBINATION GARMENTS COMBINING THE FUNCTIONS OF BANDEAUX AND GARTER BELT. THE H. & W. COMPANY, Newark, N. J.
Filed March 21, 1928. Serial No. 263,548. PUBLISHED JULY 3, 1928. Class 39.

247,493. FABRICS STAMPED FOR EMBROIDERY AND TAPESTRY PATTS. HENRY WEIL NEEDLE ART CORP., New York, N. Y.
Filed March 20, 1928. Serial No. 263,522. PUBLISHED JULY 3, 1928. Class 40.

247,494. HOSIERY. GEO. E. KEITH COMPANY, Brockton, Mass.
Filed March 20, 1928. Serial No. 263,476. PUBLISHED JULY 3, 1928. Class 39.

247,495. MEN'S AND WOMEN'S COATS, TOPCOATS, OVERCOATS, WRAPS, AND CAPES. SLANDS MANUFACTURING COMPANY, New York, N. Y.
Filed March 17, 1928. Serial No. 263,352. PUBLISHED JULY 3, 1928. Class 39.

247,496. GOLF BALLS. BON-DEE GOLF BALL CO., Detroit, Mich.
Filed April 28, 1928. Serial No. 265,517. PUBLISHED JULY 10, 1928. Class 22.

247,497. GOLF BALLS. BON-DEE GOLF BALL CO., Detroit, Mich.
Filed April 28, 1928. Serial No. 265,516. PUBLISHED JULY 10, 1928. Class 22.

247,498. GOLF BALLS. BON-DEE GOLF BALL CO., Detroit, Mich.
Filed April 28, 1928. Serial No. 265,515. PUBLISHED JULY 10, 1928. Class 22.

247,499. DRY COLORS FOR SHADING PAINTS. E. I. DUPONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed April 24, 1928. Serial No. 265,323. PUBLISHED JULY 10, 1928. Class 16.

247,500. READY-MIXED PAINTS, PASTE PAINTS, AND PAINT ENAMELS. FRAZER PAINT COMPANY, Detroit, Mich.
Filed April 19, 1928. Serial No. 265,100. PUBLISHED JULY 10, 1928. Class 16.

247,501. NATURAL PRODUCT CONSISTING OF LEAVES, FLOWERS, AND TWIGS OF A SOUTH AMERICAN BOTANICAL GROWTH AND USED FOR FOOD AND BEVERAGE PURPOSES. DANIEL T. HICKEY, doing business as Maty Suretea Co., (Not Inc.), Chicago, Ill.
Filed April 19, 1928. Serial No. 265,107. PUBLISHED JULY 10, 1928. Class 46.

247,502. LAXATIVE TABLETS. THE AYER COMPANY, Lowell, Mass.
Filed April 2, 1928. Serial No. 264,135. PUBLISHED JUNE 19, 1928. Class 6.

247,503. PREPARATION OF HYPOPHOSPHITES. FELLOWS MEDICAL MANUFACTURING COMPANY, INC., New York, N. Y.
Filed March 26, 1928. Serial No. 263,758. PUBLISHED JUNE 26, 1928. Class 6.

247,504. ARTISTS' WATER COLORS AND OIL COLORS. GÜNTHER WAGNER, Hanover, Germany.
Filed March 21, 1928. Serial No. 263,570. PUBLISHED JULY 10, 1928. Class 16.

247,505. PLASTIC MATERIAL SIMILAR TO PUTTY. HARRY L. GREENBAUM, doing business as Technical Color and Chemical Works, New York, N. Y.
Filed March 17, 1928. Serial No. 263,316. PUBLISHED JULY 10, 1928. Class 16.

247,506. SALAD DRESSING. MRS. ANNA M. MILLER, Alliance, Nebr.
Filed March 12, 1928. Serial No. 263,048. PUBLISHED JULY 10, 1928. Class 46.

247,507. MEDICINAL PREPARATIONS USED AS A SYSTEMIC, ANALGESIC, ANALGIE, ANTIPAIN, AND FEBRIFUGE. WHORTON PHARMACAL COMPANY, Gadsden, Ala.
Filed March 8, 1928. Serial No. 262,831. PUBLISHED JUNE 26, 1928. Class 6.

247,508. RICE, CHEESE, ANTIPASTO, MACARONI, CANNED SARDINES, CANNED TUNNY FISH, CANNED MUSHROOMS, AND PRESERVED VEGETABLES IN OIL AND VINEGAR—NAMELY, PEAS AND BEANS. DUOMO FOOD PRODUCTS, INC., New York, N. Y.
Filed March 10, 1928. Serial No. 262,955. PUBLISHED JULY 10, 1928. Class 46.

247,509. TALCUM POWDER. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed March 7, 1928. Serial No. 262,769. PUBLISHED JUNE 19, 1928. Class 6.

247,510. MAGNESIUM HYDROXIDE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,753. PUBLISHED JUNE 19, 1928. Class 6.

247,511. LAXATIVE AND ALKALINIZING SALINE SALT, A DIURETIC AND STIMULANT FOR THE KIDNEYS, UTERINE TONIC, VAGINAL ANTISEPTIC SUPPOSITORIES, VAGINAL ANTISEPTIC POWDER, COUGH SYRUP AND EXPECTORANT, AND SYSTEMIC TONIC. LEHRER BROTHERS, doing business as La Salle Medicine Co., Los Angeles, Calif.
Filed March 3, 1928. Serial No. 262,570. PUBLISHED JUNE 19, 1928. Class 6.

247,512. MEDICINE FOR COLDS, GRIPPE, CHILLS AND FEVER, MALARIA, CONSTIPATION, AND BILIOUSNESS. GEORGE W. MATHEWS, doing business as Number Twenty Seven Laboratories, Washington, D. C.
Filed March 7, 1928. Serial No. 262,727. PUBLISHED JUNE 26, 1928. Class 6.

247,513. ANALGESIC SEDATIVE AND HYPNOTIC. H. A. METZ LABORATORIES, INC., New York, N. Y.
Filed April 6, 1928. Serial No. 264,470. PUBLISHED JUNE 19, 1928. Class 6.

247,514. ARCH SUPPORTS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed April 2, 1928. Serial No. 264,201. PUBLISHED JULY 10, 1928. Class 44.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

247,515. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEEMAN'S LABORATORY, INC., Atlanta, Ga. Filed Aug. 7, 1928. Serial No. 270,687.

BEEMAN'S
LACTATED
PEPSIN

For Lactated-Pepsin Compound Used as a Laxative.
Claims use since 1925.

247,516. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEEMAN'S LABORATORY, INC., Atlanta, Ga. Filed Aug. 7, 1928. Serial No. 270,685.

BEEMAN'S
GREASELESS
OINTMENT

For Greasless Ointment for Use to Stop the Odor of Smelling Feet, to Stop Itching, Burning, Sore, and Sweaty Feet or Any Body Odor and for the Treatment of Piles, Eczema, Tetter, Burns, Itch, Sores, Pimples, Blackheads, Corns, Callouses, Mosquito Bites, and Poison Oak.
Claims use since 1925.

247,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DR. W. J. ROSS COMPANY, Los Angeles, Calif. Filed July 7, 1928. Serial No. 269,258.

Dr. Ross

For a Food for Cats and Dogs.
Claims use since Dec. 1, 1925.

247,518. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN GLUE COMPANY, Boston, Mass. Filed July 2, 1928. Serial No. 268,955.

FASTCUT

For Abrasive Paper and Abrasive Cloths.
Claims use since June 19, 1922.

247,519. (CLASS 39. CLOTHING.) JOHN E. HANIFEN COMPANY, Philadelphia, Pa. Filed Feb. 1, 1928. Serial No. 261,000.

The Hanifen Sweater

For Sweaters, Sweater Coats, and Sweater Suits for Men, Women, and Children.
Claims use since July 1, 1927.

247,520. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUTUAL STORES, INC., Oakland, Calif. Filed Aug. 29, 1927. Serial No. 254,090.

KLAMATH

For Canned Fruits, Vegetables, Jellies, and Fish.
Claims use since July 23, 1927.

247,521. (CLASS 27. HOROLOGICAL INSTRUMENTS.) TOLEDO WATCH COMPANY, INC., New York, N. Y. Filed July 27, 1927. Serial No. 252,628.

SHOCK
RESISTER

For Watches, Clocks, and Watch and Clock Movements.
Claims use since July 22, 1927.

247,522. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARSHLOOS KECHIJIAN, doing business as Eastern Chemical Company, Providence, R. I. Filed Apr. 7, 1927. Serial No. 247,086.

GAS-SELTZER

For Digestive Tablets.
Claims use since Mar. 22, 1927.

247,523. (CLASS 39. CLOTHING.) THE STYLE DRESS CO., INC., New York, N. Y. Filed July 31, 1928. Serial No. 270,399.

STYLE DRESS CO.

Known For

BETTER { STYLES QUALITY VALUE SELLERS

For Women's and Misses' Dresses.
Claims use since Feb. 1, 1926.

247,524. (CLASS 39. CLOTHING.) THE STYLE DRESS CO., INC., New York, N. Y. Filed July 31, 1928. Serial No. 270,398.

STYLE DRESS CO.

Known For

FINEST MATERIALS,
BEST WORKMANSHIP,
AND CORRECT SIZES.
"THE SIZE TICKET NEVER MISLEADS"

For Women's and Misses' Dresses.
Claims use since Feb. 1, 1926.

247,525. (CLASS 39. CLOTHING.) BESSIE E. BERNHARDT, Wheeling, W. Va., Steubenville and Zanesville, Ohio. Filed June 4, 1928. Serial No. 267,402.

Morley's

For Suits and Overcoats for Men.
Claims use since about Sept. 10, 1924.

247,526. (CLASS 2. RECEPTACLES.) LOUIS WIESENFELD, doing business as Gold Star Novelty Co., New York, N. Y. Filed May 26, 1928. Serial No. 267,102.

"Mothgard"

For Garment Clothing Bags.
Claims use since May 1, 1927.

247,527. (CLASS 39. CLOTHING.) MAX SALITRY, doing business as The Windsor Shirt & Blouse Co., New York, N. Y. Filed May 26, 1928. Serial No. 267,082.

Windsor

For Boys' Blouses, Men's and Youths' Negligee Shirts and Pajamas.
Claims use since March, 1927.

247,528. (CLASS 39. CLOTHING.) NORTON BROS. AND MORRIS, Los Angeles, Calif. Filed Apr. 23, 1928. Serial No. 265,285.

Tailor Made
FOR BETTER TRADE

For Men's Trousers and Lumberjacks.
Claims use since May 23, 1927.

247,529. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 10, 1927. Serial No. 257,385.

Truphoto

For Cameras.
Claims use since July 18, 1927.

247,530. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARGARET BURNHAM'S COTTAGE CANDIES OF THE PACIFIC COAST, Oakland, Calif. Filed Oct. 1, 1927. Serial No. 255,482.

SOCIALLY CORRECT

For Candy.
Claims use since July 1, 1927.

247,531. (CLASS 39. CLOTHING.) WM. T. KNOTT COMPANY, INC., New York, N. Y. Filed Aug. 13, 1927. Serial No. 253,421.

MERVILLE

For Hosiery.
Claims use since July 22, 1927.

247,532. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE ALLEN AUTO SPECIALTY COMPANY, New York, N. Y. Filed Aug. 11, 1927. Serial No. 253,306.

WIND-o-VENT

For Adjustable Louver Window Ventilators.
Claims use since on or about May 28, 1927.

247,533. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GENERAL STEEL PRODUCTS, INC., Minneapolis, Minn. Filed June 24, 1927. Serial No. 251,032.

NO-BUMPS!

For Springs for Automobile Front Coach Seats.
Claims use since on or about June 6, 1926.

247,534. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN STEEL PIPE & TANK COMPANY, Los Angeles, Calif. Filed May 18, 1927. Serial No. 249,145.

AMERICAN DOUBLE-LOCK

For Metal Casing for Oil-Well Use.
Claims use since March 5, 1927.

247,535. (CLASS 45. BEVERAGES, NONALCOHOLIC.) NESBITT FRUIT PRODUCTS INC., Los Angeles, Calif. Filed Apr. 30, 1927. Serial No. 248,240.

OLE PORT

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Syrups and Extracts for Making the Same.
Claims use since February 15, 1927.

247,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARLE R. NASH, Riverside, Calif. Filed Apr. 15, 1927. Serial No. 247,489.

SAXON

For Fresh Citrous Fruits—Namely, Oranges, Lemons, Grapefruit; Fresh Deciduous Fruits—Namely, Plums, Peaches, Apples, Grapes, and Pears; Fresh Vegetables—Namely, Tomatoes, Lettuce; and Fresh Melons—Namely, Cantaloupes.
Claims use since Jan. 10, 1927.

247,537. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARRENSBURG CANNING CO., Warrensburg, Ill. Filed Mar. 4, 1926. Serial No. 228,156.

HYGRADE

For Canned Corn.
Claims use since May 17, 1910.

TRADE-MARK REGISTRATIONS RENEWED

32,108. HERRING. Registered November 1, 1898. DE ZEEUW & VAN RAALT. Renewed November 1, 1928, to N. V. de Zeeuw & Van Raalt's Handels and Reederykantoor, Vlaardingen, Netherlands, a Corporation of the Netherlands, successor.

67,126. LEATHER BOOTS AND LEATHER SHOES. Registered January 14, 1908. LORING Q. WHITE COMPANY, Brockton, Mass. Renewed January 14, 1928, to L. Q. White Shoe Company, Bridgewater, Mass., a Corporation of Massachusetts, successor.

68,386. RIFLES, SHOTGUNS, PISTOLS, AND REVOLVERS. Registered April 7, 1908. MARY ELIZABETH JOHNSON—TRUSTEE. Renewed April 7, 1928, to Iver Johnson's Arms & Cycle Works, Fitchburg, Mass., a Corporation of Massachusetts, successor.

68,389. RIFLES, SHOTGUNS, PISTOLS, AND REVOLVERS. Registered April 7, 1908. MARY ELIZABETH JOHNSON—TRUSTEE. Renewed April 7, 1928, to Iver Johnson's Arms & Cycle Works, Fitchburg, Mass., a Corporation of Massachusetts, successor.

68,826. CERTAIN AGRICULTURAL MACHINERY. Registered April 28, 1908. BATEMAN MANUFACTURING COMPANY, Grenloch, N. J. Renewed April 28, 1928, to Fred. H. Bateman Company, Philadelph'a, Pa., a Corporation of New Jersey, assignee.

69,687. NUTS. Registered June 30, 1908. ROBT. LEE HATCH. Renewed June 30, 1928, to Robert L. Hatch Corporation, New York, N. Y., a Corporation of New York, assignee.

70,129. HOSIERY. Registered August 4, 1908. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed August 4, 1928, to Chas. Chipman's Sons Co. Inc., New York, N. Y., a Corporation of New York, successor.

70,137. PIANOS AND PIANOS WITH INTERIOR PLAYERS. Registered August 4, 1908. JACOB DOLL & SONS, New York, N. Y., a Corporation of New York. Renewed August 4, 1928.

70,451. AN ALTERATIVE FOR INTERNAL USE. Registered September 1, 1908. JOHN A. SEITZ, New York, N. Y. Renewed September 1, 1928.

70,482. GAS HEATER FURNACE. Registered September 8, 1908. LEWIS O. CAMERON. Renewed September 8, 1928, to Henry McKinnie, Pittsburgh, Pa., assignee.

70,640. PURGATIVES. Registered September 22, 1908. KNOLL & Co., Ludwigshafen-on-the-Rhine, Germany. Renewed September 22, 1928, to J. D. Riedel Aktiengesellschaft, Berlin-Britz, Germany, a Corporation of Germany, assignee.

70,705. REFRIGERATORS. Registered September 29, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed September 29, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name

70,939. PREPARED ASBESTOS. Registered October 20, 1908. J. W. ROBERTS, LIMITED. Renewed October 20, 1928, to J. W. Roberts, Limited, Leeds, England, a Corporation of Great Britain, ass'gnee.

71,030. EYE WATER. Registered October 27, 1908. ROBERT MOULTHROP, Eufaula, Ala. Renewed October 27, 1928, to Dickey Eye Water Co., Montgomery, Ala., assignor, by mesne assignments.

71,178. HOSIERY. Registered November 10, 1908. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed November 10, 1928, to Chas. Chipman's Sons Co., Inc. New York, N. Y., a Corporation of New York, successor.

71,259. CERTAIN ELECTRICAL APPARATUS AND SUPPLIES. Registered November 10, 1908. THE JOHNS-PRATT COMPANY. Renewed November 10, 1928, to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a Corporation of Connecticut, ass'gnee.

71,320. REFINED PETROLEUM. Registered November 17, 1908. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y., a Corporation of New York Renewed November 17, 1928.

71,326. NATURAL CARBONATED MINERAL WATERS. Registered November 17, 1908. BIRRESBORNER MINERALBRUNNEN H. LOHR & EYLERT. Renewed November 17, 1928, to Birresborner Mineralbrunnen Aktiengesellschaft, Dusseldorf, Germany, a Joint-Stock Company of Germany, assignee.

71,351. MEDICINAL SALTS. Registered November 17, 1908. CITY OF CARLSBAD, Carlsbad, Czechoslovakia, a Corporation of Bohemia, now of Czechoslovakia. Renewed November 17, 1928.

71,516. FACE CREAM. Registered December 1, 1908. VINCENT B. THOMAS. Renewed December 1, 1928, to Harriet Hubbard Ayer, Inc., New York, N. Y., a Corporation of New York, assignee.

71,565. REFINED PETROLEUM. Registered December 1, 1908. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed December 1, 1928.

71,628. A LAXATIVE AND REMEDY FOR CONSTIPATION AND ALL DISEASES OF THE ALIMENTARY CANAL. Registered December 8, 1908. THE PANSY COMPOUND Co., Crawfordsville, Ind. Renewed December 8, 1928, to Francis S. Cobb, doing business as The Pansy Compound Co., Dedham, Mass., successor.

71,669. MAGAZINES. Registered December 8, 1908. The National Association of Stationary Engineers, Utica, N. Y. Renewed December 8, 1928, to National Association of Power Engineers, Chicago, Ill., a Corporation of New York, successor.

71,712. SOAP CHIPS. Registered December 15, 1908. J. T. KENNY & Co., St. Paul, Minn., a Corporation of Minnesota. Renewed December 15, 1928.

71,802. FISHING TACKLE. Registered December 15, 1908. FRANK E. CHESTER, doing business as F. E. Chester Manufacturing Company, Providence, R. I. Renewed December 15, 1928.

71,902. BISCUITS. Registered December 22, 1908. PEEK, FREAN & Co., LIMITED, London, England, a Corporation of Great Britain. Renewed December 22, 1928.

72,025. TEA. Registered December 29, 1908. ALBERT KOPPEL, New Orleans, La. Renewed December 29, 1928.

72,061. EXPANDED METAL. Registered December 29, 1908. CHESS BROTHERS, THE CENTRAL EXPANDED METAL COMPANY, Pittsburgh, Pa. Renewed December 29, 1928, to The Consolidated Expanded Metal Companies, Pittsburgh, Pa., and Wheeling, W. Va., a Corporation of Pennsylvania, successor.

72,170. STEAM PUMPS. Registered January 5, 1909. PULSOMETER STEAM PUMP Co., New York, N. Y., a Corporation of New York. Renewed January 5, 1929.

72,211. AN EFFERVESCING SALINE LAXATIVE. Registered January 5, 1909. THE WINGATE CHEMICAL Co. LIMITED, Montreal, Canada. Renewed Jan. 5, 1929.

72,336. ROCK AND RYE WITH HOREHOUND AND BITTERS. Registered January 19, 1909. POND'S BITTERS COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed January 19, 1929.

72,375. PRINTING, WRAPPING, WRITING, LEDGER, AND BOND PAPERS. Registered January 19, 1909. MINNEAPOLIS PAPER Co., Minneapolis, Minn., a Corporation of Minnesota. Renewed January 19, 1929.

72,486. AN ANTISEPTIC MEDICINAL OIL. Registered January 26, 1909. GREGORY MEDICINE Co. Renewed January 26, 1929, to C. J. Lincoln Company, Little Rock, Ark., a Corporation of Arkansas, assignee.

72,564. PIANOS. Registered February 2, 1908. PAUL G. MEHLIN & SONS, New York, N. Y., a Corporation of New York. Renewed February 2, 1929.

72,644. HATS AND CAPS. Registered February 9, 1909. MORITZ HENRY WITZ. Renewed February 9, 1929, to American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md., a Corporation of Maryland, assignee.

72,645. HATS AND CAPS. Registered February 9, 1909. MORITZ HENRY WITZ. Renewed February 9, 1929, to American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md., a Corporation of Maryland, assignee.

LABELS

REGISTERED SEPTEMBER 25, 1928.

34,607.—*Title:* PIED PIPER. For Fresh Grapes. G. R. BUCKINGHAM, McFarland, Calif. Published April 26, 1928.

34,608.—*Title:* EASTWOOD. For Men's, Women's, and Children's Shoes of Leather, Rubber, Cotton, Silk, Linen, Satin, Mohair, Wool, Straw, Paper, and Fibre. WM. EASTWOOD & SON Co., Rochester, N. Y. Published June 7, 1928.

34,609.—*Title:* TEX-ANT. For Ant Poison. FLORIDA CHEMICAL COMPANY, Miami, Fla. Published July 16, 1928.

34,610.—*Title:* FRANCES FOX ALMOND-OLIVE SOAP FOR HAIR & SKIN. For Soap. FRANCES FOX LABORATORIES, INCORPORATED, Ridgewood, N. J. Published July 16, 1928.

34,611.—*Title:* HADDOCK. For Dressed, Usually Frozen, Sea Foods. GENERAL FOODS COMPANY, Gloucester, Mass. Published November 21, 1927.

34,612.—*Title:* LE GRAND'S SILK ARMOR. For Chemical Product for Treating Articles Made of Silk. HERBERT L. HEPP, doing business as Le Grand Laboratories, Chicago, Ill. Published June 28, 1928.

34,613.—*Title:* SMART SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 25, 1928.

34,614.—*Title:* ENGLAND BROTHERS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 23, 1928.

34,615.—*Title:* BEAUTIFUL SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 16, 1928.

34,616.—*Title:* THE LONG WEAR SHOE COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 24, 1928.

34,617.—*Title:* LOUIS PIZITZ. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 24, 1928.

34,618.—*Title:* SEIDELS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 26, 1928.

34,619.—*Title:* COURTEOUS SERVICE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 23, 1928.

34,620.—*Title:* GOOD SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 25, 1928.

34,621.—*Title:* LADY RODA SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 26, 1928.

34,622.—*Title:* CAHEEN BROS. INC. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 30, 1928.

34,623.—*Title:* STYLE CREATORS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 1, 1928.

34,624.—*Title:* IMPERIAL SHOE STORE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 4, 1928.

34,625.—*Title:* BETTER FOOTWEAR. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 28, 1928.

34,626.—*Title:* MAKER OF FINE SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 1, 1928.

34,627.—*Title:* QUALITY SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 3, 1928.

34,628.—*Title:* WOMEN'S AND CHILDREN'S SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 6, 1928.

34,629.—*Title:* VANITY FAIR. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 6, 1928.

34,630.—*Title:* QUALITY FOOTWEAR. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 7, 1928.

34,631.—*Title:* FINE FOOTWEAR. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 30, 1928.

34,632.—*Title:* MEADORS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 6, 1927.

34,633.—*Title:* ROSE MARIE SLIPPER SHOP. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 13, 1928.

34,634.—*Title:* FRENCH MAID. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 20, 1928.

34,635.—*Title:* ANSONIA BOOTERY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 27, 1928.

34,636.—*Title:* CINDERELLA. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 24, 1928.

34,637.—*Title:* MAILLARD'S BLACK DEVILS. For Candy. HENRY MAILLARD, INC., Long Island City, N. Y. Published July 25, 1928.

34,638.—*Title:* PARTRIDGE TOMATO CATSUP. For Tomato Catsup. THE H. H. MEYER PACKING COMPANY, Cincinnati, Ohio. Published July 1, 1928.

34,639.—*Title:* VALPO. For Cigars. VAL. W. POTERBK & SONS, Chicago, Ill. Published May 22, 1928.

34,640.—*Title:* P R CLEANER FOR DAINTY HANDS. For Cleaners For Pots and Pans. P R CLEANER CO., New York, N. Y. Published June 27, 1928.

34,641.—*Title:* CAMPER. For Coffee. SEAPORT COFFEE CO., INC., Houston, Tex. Published August 10, 1928.

34,642.—*Title:* TOASTMASTER. For Coffee. SEAPORT COFFEE CO., INC., Houston, Tex. Published August 10, 1928.

34,643.—*Title:* COLONEL BOGEY'S TEE CUPS. For Golf Tees. VIRGINIA SNOW, Elgin, Ill. Published July 12, 1928.

34,644.—*Title:* OUT-O. For a Combination Ash Tray, Cigar and Cigarette Extinguisher. REGINALD C. THOMAS, Brooklyn, N. Y. Published June 11, 1928.

34,645.—*Title:* CAT'S ME-OW CUP CAKES. For Cup Cakes. THE UNDER COMMERCIAL COMPANY, Cleveland, Ohio. Published April 27, 1928.

34,646.—*Title:* WILCOX FOOT BALM. For Foot Powder. CECIL W. WILCOX, Kalamazoo, Mich. Published June 28, 1928.

PRINTS

REGISTERED SEPTEMBER 25, 1928.

11,234.—*Title:* THEY GO FROM MISS ARDEN'S TO BUCKINGHAM PALACE. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published April 5, 1928.

11,235.—*Title:* TO CLIENTS OF MY PARIS ESTABLISHMENT. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published April 5, 1928.

11,236.—*Title:* THESE ARE SKIPPING DAYS. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published June 2, 1928.

11,237.—*Title:* IT'S FAIR SAILING—ONCE YOU'VE CHOSEN CAMELS. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published July 16, 1928.

11,238.—*Title:* PERSONALLY, I SMOKE FOR PLEASURE. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 16, 1928.

11,239.—*Title:* COME ON—TAKE ME UP. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 16, 1928.

11,240.—*Title* CLOSER THAN A TATOOED ANCHOR. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 16, 1928.

11,241.—*Title:* IF YOU SMOKE FOR PLEASURE—AND THAT'S WHAT MADE THIS CIGARETTE FAMOUS. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 9, 1928.

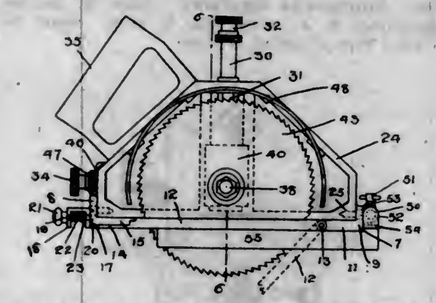
11,242.—*Title:* READ THE TRUTH. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 23, 1928.

11,243.—*Title:* IT'S THE FAVORITE WHEN SMOKING IS RECOGNIZED AS A PLEASURE. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 21, 1928.

REISSUES

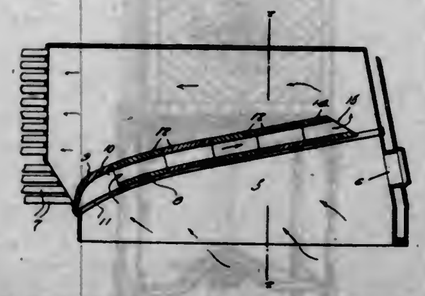
SEPTEMBER 25, 1928.

17,087. SAWING DEVICE. PERCY LEON BILLINGSLEY, Orlando, Fla., assignor to The P. L. Billingsley Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 28, 1926. Serial No. 157,600. Original No. 1,529,294, dated Mar. 10, 1925, Serial No. 482,380, filed July 5, 1921. 12 Claims. (Cl. 143—43.)



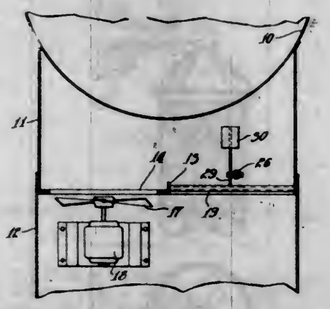
1. A device of the kind described comprising a base slidable in one direction on a board or other object to be operated on, two members, one of said members being adjustably mounted on the base and the other being adjustably carried by the first-named member, and a rotary implement carried by the last-named member mounted for rotation about an axis extending at right angles to the direction of movement of the slidable base, said implement extending below the base to cut the object underneath the base, one of said members being pivotally supported for adjustment to different angles transversely with reference to said direction to bring the axis of the implement to different angles with reference to the base and the object transversely of such direction so as to obtain square and miter cuts, and the other member being adjustable toward and away from the base and object to raise and lower the implement and adjust the depth of the cut made, said adjustments maintaining the implement, in any of its adjustments relatively to the base, in a plane parallel to said direction of movement and constraining the implement from being positioned at an angle to such direction of movement.

17,088. FIRE BOX FOR BOILERS. ROBERT MARVIN SPENCER, Waycross, Ga. Filed Mar. 22, 1928. Serial No. 263,822. Original No. 1,622,356, dated Mar. 29, 1927, Serial No. 128,708, filed July 20, 1926. 1 Claim. (Cl. 110—87.)



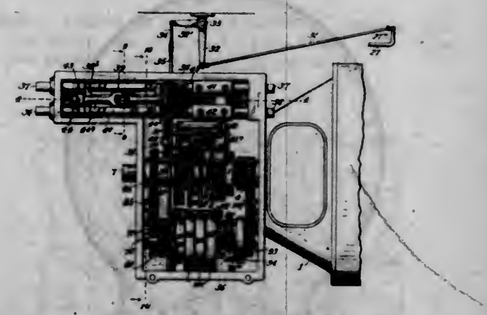
In combination with a boiler fire box, longitudinally extending arch pipes between the fire containing portion of the fire box and the fire flues thereof, a plurality of arch sections of hollow construction mounted on said arch pipes, each section including a plurality of hollow blocks, the intermediate blocks being open ended, and the front block having one open end adjacent the next intermediate block and an open bottom, and the other end block having open ends one of which is beveled.

17,089. HOT-AIR HEATING AND VENTILATING APPARATUS. JAMES C. MILES, Cleveland, Ohio. Filed June 7, 1928. Serial No. 283,673. Original No. 1,600,508, dated Sept. 21, 1926, Serial No. 650,249, filed July 9, 1923. 14 Claims. (Cl. 126—110.)



1. In a heating apparatus, the combination with a heating chamber of a fan for forcing air into said chamber, a normally open damper associated with the fan for controlling an inlet to the chamber, and means associated with the damper and operatively connected with the fan, whereby upon operation of the fan a positive automatic closure of said damper is effected, and whereby the damper is maintained closed so long as the fan is in operation.

17,090. AUTOMATIC GEAR-SHIFTING MECHANISM FOR SLIDING-GEAR TRANSMISSIONS. EARL A. THOMPSON, Portland, Oreg. Filed Jan. 3, 1924. Serial No. 684,174. Original No. 1,435,430, dated Nov. 14, 1922, Serial No. 221,412, filed Mar. 9, 1918. 64 Claims. (Cl. 74—58.)



1. In a power transmission having a clutch, a clutch operating element, and transmission gears, means for successively releasing the clutch, shifting the gears and synchronizing the speed of the gears during movement of the operating element from its normal position, and means for successively shifting the gears and engaging the clutch during the movement of the operating element in returning to its normal position.

DESIGNS

SEPTEMBER 25, 1928.

76,367. COMBINED PORCH LANTERN AND SUPPORTING BRACKET. ROBERT SAYER ASPINWALL, Detroit, Mich. Filed July 7, 1928. Serial No. 27,414. Term of patent 7 years.



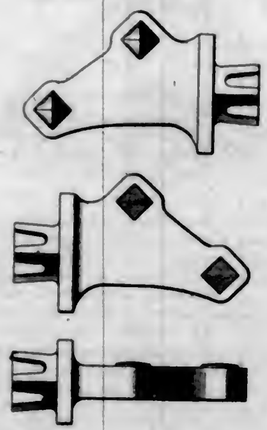
The ornamental design for a combined porch lantern and supporting bracket, as shown.

76,368. STREET-LIGHT GLOBE. SYLVESTER A. BAKER, San Francisco, Calif. Filed Apr. 16, 1928. Serial No. 26,337. Term of patent 14 years.



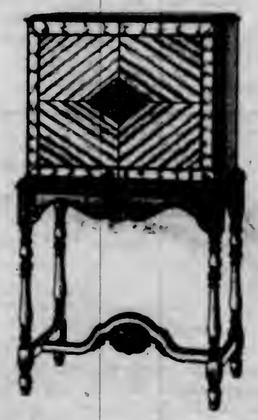
The ornamental design for a street light globe substantially as shown.

76,369. TOWEL-BAR BRACKET. JOHN H. BALMER, Maplewood, N. J. Filed July 9, 1928. Serial No. 27,419. Term of patent 14 years.



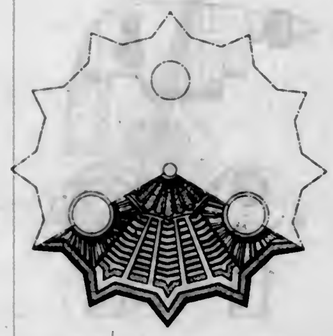
The ornamental design for a towel bar bracket substantially as shown.

76,370. CABINET FOR A SOUND-REPRODUCING INSTRUMENT OR THE LIKE. NATHAN P. BLOOM, Louisville, Ky. Filed May 5, 1928. Serial No. 26,577. Term of patent 3½ years.



The ornamental design for a cabinet for a sound reproducing instrument or the like as shown.

76,371. CEILING PLATE FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed July 20, 1928. Serial No. 27,542. Term of patent 3½ years.



The ornamental design for a ceiling plate for lighting fixtures or similar articles, as shown.

76,372. GOBLET. EDGAR M. BOTTOME, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed July 2, 1928. Serial No. 27,350. Term of patent 14 years.



The ornamental design for a goblet, as shown.

76,373. GOBLET. EDGAR M. BOTTOME, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed July 2, 1928. Serial No. 27,351. Term of patent 14 years.



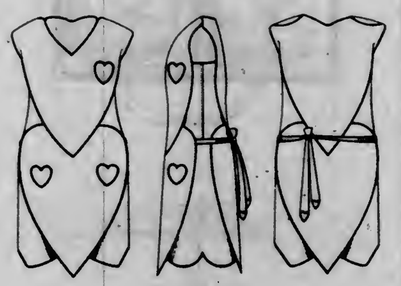
The ornamental design for a goblet, as shown.

76,374. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed July 6, 1926. Serial No. 18,262. Term of patent 7 years.



The ornamental design for a textile fabric, as shown.

76,375. DRESS OR SIMILAR ARTICLE. ESTELLA MORTON BOYES, New York, N. Y. Filed Jan. 7, 1928. Serial No. 24,781. Term of patent 3½ years.



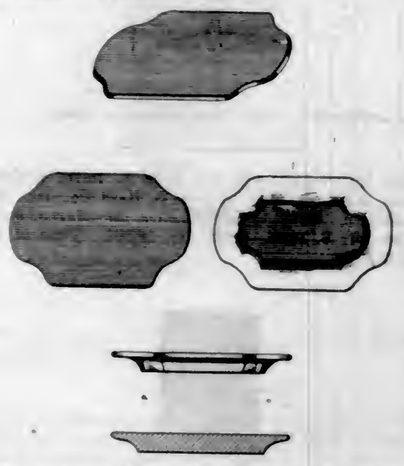
The ornamental design for a dress or similar article, substantially as shown.

76,376. KNITTED FABRIC. MILLARD D. BROWN, Philadelphia, Pa., assignor to Continental Mills, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1927. Serial No. 21,307. Term of patent 7 years.



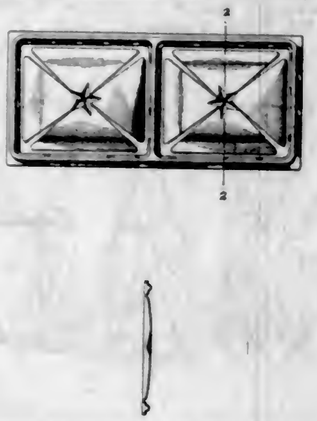
The ornamental design for a knitted fabric, substantially as shown and described.

76,377. DISH HOLDER. GEORGE H. CARTER, Boston, Mass. Filed Feb. 10, 1928. Serial No. 25,352. Term of patent 3½ years.



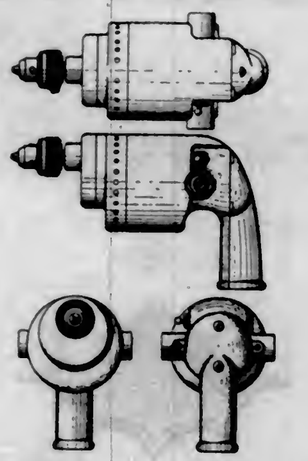
The ornamental design for a dish holder, as shown.

76,378. DRIP PAN. GEORGE PRENTICE CHILDERS, San Francisco, Calif. Filed Jan. 13, 1926. Serial No. 16,046. Term of patent 14 years.



The ornamental design for a drip pan, as shown.

76,379. ELECTRIC DRILL. EDWIN L. CONNELL, Cleveland, Ohio, assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 13, 1928. Serial No. 25,423. Term of patent 14 years.



The ornamental design for an electric drill, as shown.

76,380. BELT BUCKLE. FRANK P. DAUGHADAY, Norton, Mass. Filed Feb. 13, 1926. Serial No. 16,512. Term of patent 3½ years.



The ornamental design for a belt buckle, as shown.

76,381. DISPLAY STAND. JOHN H. DE WEESE, Dayton, Ohio. Filed July 5, 1928. Serial No. 27,389. Term of patent 7 years.



The ornamental design for a display stand, as shown.

76,382. GUITAR. JOHN DOPYERA, Los Angeles, Calif. Filed Mar. 12, 1928. Serial No. 25,816. Term of patent 7 years.



The ornamental design for a guitar, as shown.

76,383. AUTOMOBILE RADIATOR ORNAMENT. FREDERICK W. EHRLICH, Newark, N. J. Filed May 2, 1927. Serial No. 21,816. Term of patent 3½ years.



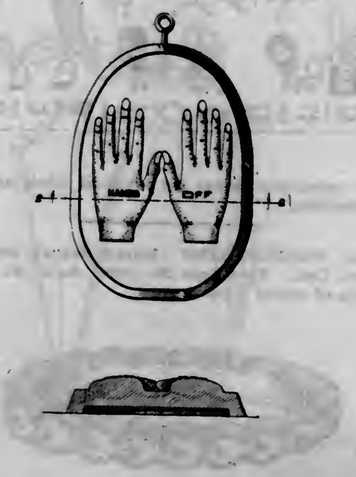
The ornamental design for an automobile radiator ornament, as shown.

76,384. GARMENT BAG. HERMAN B. FERGUSON, Philadelphia, Pa. Filed Apr. 10, 1928. Serial No. 26,214. Term of patent 3½ years.



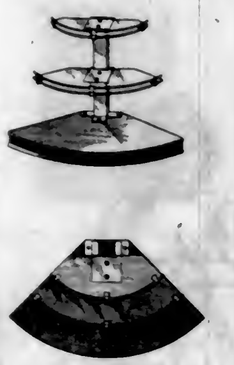
The ornamental design for a garment bag as shown.

76,385. SIGN. JAMES FRANK FISHER, Honolulu, Territory of Hawaii. Filed Apr. 19, 1928. Serial No. 26,381. Term of patent 14 years.



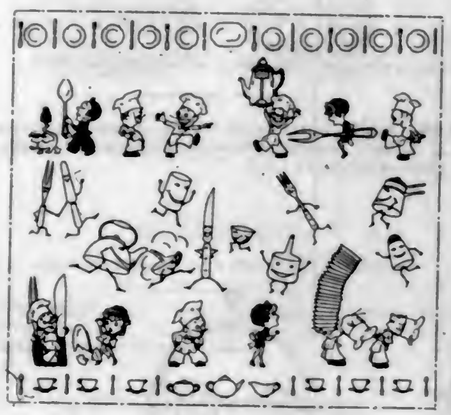
The ornamental design for a sign, as shown.

76,386. DISPLAY FIXTURE OR THE LIKE. MATTHEW M. FRIEDEMANN, New York, N. Y. Filed May 29, 1928. Serial No. 26,903. Term of patent 14 years.



The ornamental design for a display fixture or the like as shown.

76,387. PRINTED FABRIC. JAMES H. GARDNER, Boston, Mass. Filed May 31, 1928. Serial No. 26,937. Term of patent 3½ years.



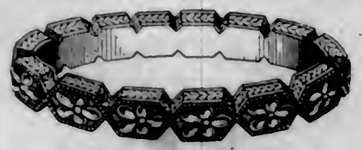
The ornamental design for a printed fabric as shown and described.

76,388. WEDDING RING. JOSEPH GRANAT, San Francisco, Calif. Filed June 28, 1928. Serial No. 27,309. Term of patent 7 years.



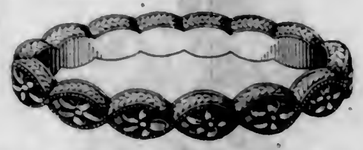
The ornamental design for a wedding ring substantially as shown.

76,389. WEDDING RING. JOSEPH GRANAT, San Francisco, Calif. Filed June 28, 1928. Serial No. 27,310. Term of patent 7 years.



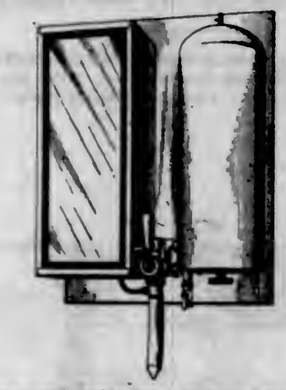
The ornamental design for a wedding ring substantially as shown.

76,390. WEDDING RING. JOSEPH GRANAT, San Francisco, Calif. Filed June 28, 1928. Serial No. 27,311. Term of patent 7 years.



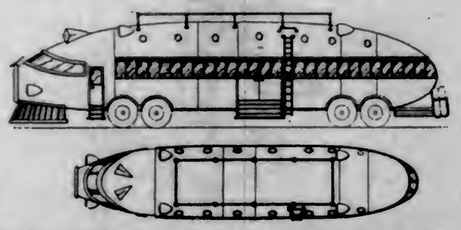
The ornamental design for a wedding ring substantially as shown.

76,391. MOUNTING FOR WATER-PURIFYING APPARATUS. IRWIN D. GROAK, Chicago, Ill. Filed Jan. 24, 1928. Serial No. 25,009. Term of patent 3½ years.



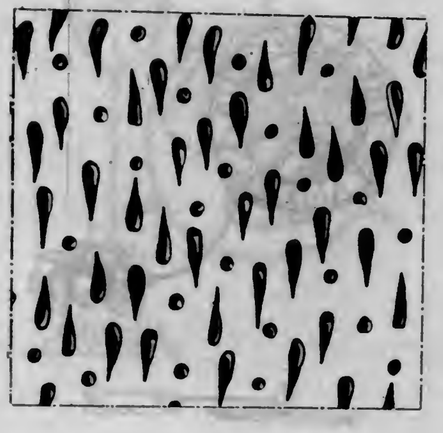
The ornamental design for a mounting for water purifying apparatus as shown.

76,392. AUTOMOBILE BODY. ERNEST T. HALLOWAY, Milwaukee, Wis. Filed Nov. 11, 1927. Serial No. 24,085. Term of patent 7 years.



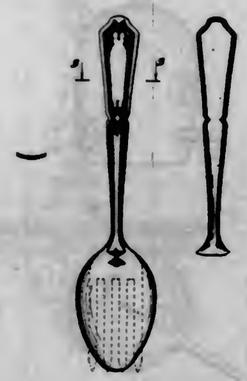
The ornamental design for an automobile body as shown.

76,393. TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE. ALFRED J. HEINEB, Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y., a Corporation of Delaware. Filed May 28, 1928. Serial No. 26,874. Term of patent 3½ years.



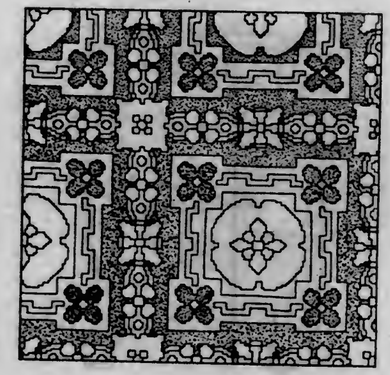
The ornamental design for a textile fabric or similar article of manufacture, substantially as shown and described.

76,394. SPOON OR SIMILAR ARTICLE. ARTHUR K. HOBSON, Danbury, Conn., assignor to The Hobson and Botts Company, Danbury, Conn., a Corporation of Connecticut. Filed June 29, 1928. Serial No. 27,823. Term of patent 7 years.



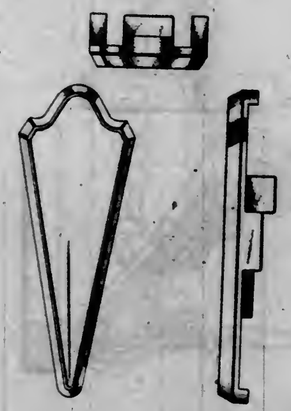
The ornamental design for a spoon or similar article substantially as shown.

76,395. LINOLEUM OR SIMILAR HARD-SURFACED FLOOR COVERING. ERIC J. HUMPHREYS, Lancaster, Pa., assignor to Armstrong Cork Company, a Corporation of Pennsylvania. Filed Dec. 30, 1927. Serial No. 24,696. Term of patent 7 years.



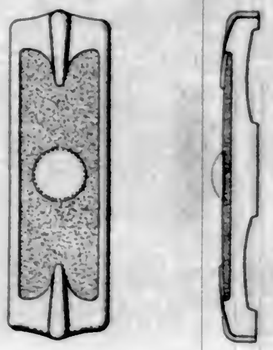
The ornamental design for linoleum or similar hard surfaced floor covering substantially as shown and described.

76,396. CLAMP FOR A VEHICLE BUMPER. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed May 19, 1927. Serial No. 22,084. Term of patent 14 years.



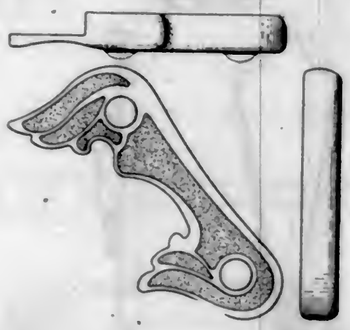
The ornamental design for a clamp for a vehicle bumper, substantially as shown.

76,397. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,623. Term of patent 14 years.



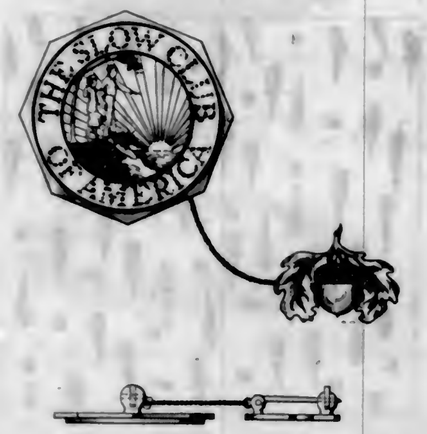
The ornamental design for a clamp plate substantially as shown and described.

76,398. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,624. Term of patent 14 years.



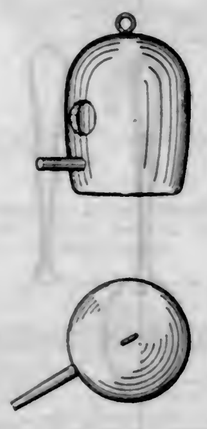
The ornamental design for a clamp plate substantially as shown and described.

76,399. BADGE OR SIMILAR ARTICLE. GEORGE F. KEARNEY, Andalusia, Pa., assignor to Bulletin Co., Philadelphia, Pa. Filed Dec. 22, 1927. Serial No. 24,584. Term of patent 3½ years.



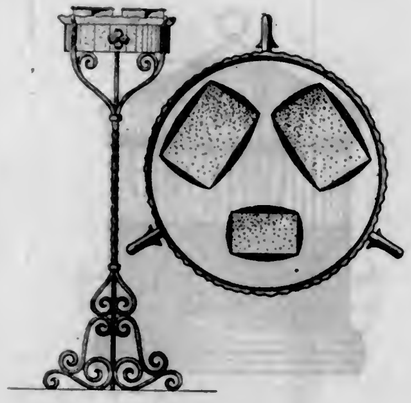
The ornamental design for a badge or similar article as shown.

76,400. BIRD HOUSE. TICE C. KEVITT, Athenia, N. J. Filed Apr. 2, 1928. Serial No. 26,111. Term of patent 14 years.



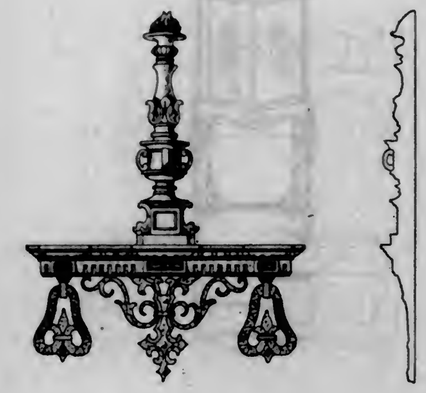
The ornamental design for a bird house, as shown.

76,401. SMOKING STAND. JOHN KOSTER, San Francisco, Calif. Filed Oct. 13, 1927. Serial No. 23,744. Term of patent 3½ years.



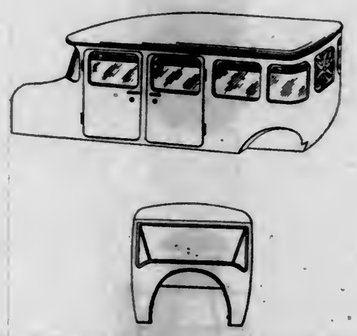
The ornamental design for a smoking stand, substantially as shown.

76,402. LIGHTING-FIXTURE BAR OR ARTICLE OF ANALOGOUS NATURE. ARTHUR R. KRAUSE, Woodhaven, N. Y., assignor to Max Schaffer Co., Inc., a Corporation of New York. Filed June 28, 1928. Serial No. 27,301. Term of patent 7 years.



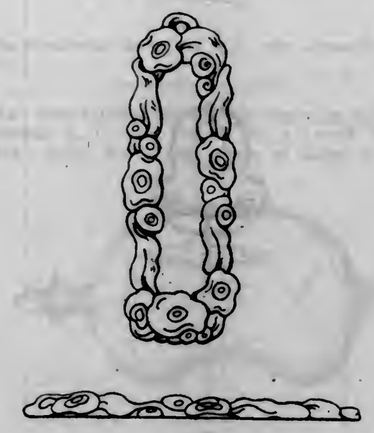
The ornamental design for a lighting fixture bar or article of analogous nature substantially as shown.

76,403. AUTOMOBILE BODY. ANDREW LANG, Edmonton, Alberta, Canada. Filed Sept. 26, 1927. Serial No. 23,547. Term of patent 7 years.



The ornamental design for a badge or similar article tially as shown.

76,404. THERMOMETER FRAME. LULU VERHAREN LAVELL, Minneapolis, Minn. Filed Mar. 28, 1928. Serial No. 25,961. Term of patent 3½ years.



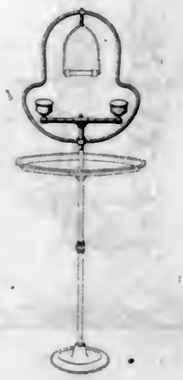
The ornamental design for a thermometer frame as shown.

76,405. BOTTLE FOR PERFUME OR THE LIKE. ANDRÉ LAVAULT, Paris, France, assignor to Associated Merchandising Corporation, a Corporation of New Jersey. Filed Nov. 25, 1927. Serial No. 24,274. Term of patent 14 years.



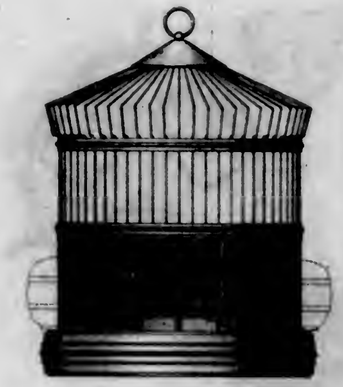
The ornamental design for a bottle for perfume or the like, as shown and described.

76,406. PARROT STAND. LEWICKI J. LEON, West Chicago, Ill. Filed Dec. 14, 1927. Serial No. 24,482. Term of patent 14 years.



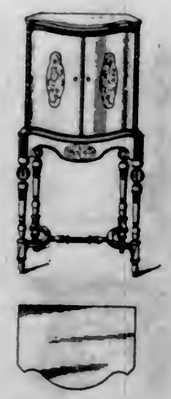
The ornamental design for a parrot stand as shown.

76,407. BIRD CAGE. LEWICKI J. LEON, West Chicago, Ill. Filed Jan. 30, 1928. Serial No. 25,078. Term of patent 14 years.



The ornamental design for a bird cage, as shown.

76,408. RADIOCABINET. ISAAC ARYNSAN LUND, Chicago, Ill. Filed June 15, 1928. Serial No. 27,140. Term of patent 3½ years.



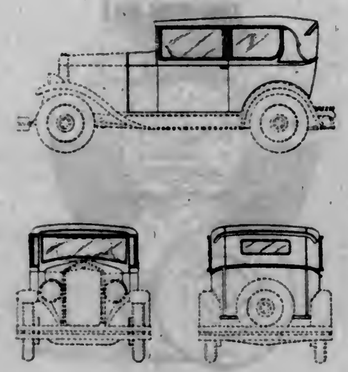
The ornamental design for a radiocabinet substantially as shown.

76,409. PITCHER OR SIMILAR ARTICLE. ROBERT B. MCELDOWNEY, New Martinsville, W. Va., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed Jan. 31, 1928. Serial No. 25,099. Term of patent 3½ years.



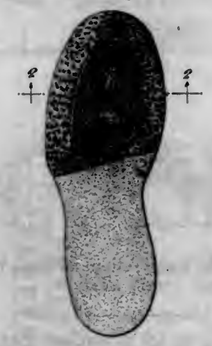
The ornamental design for a pitcher or similar article, as shown.

76,410. CLOSED VEHICLE BODY. AMOS E. NORTHUP, Detroit, Mich. Filed Dec. 27, 1926. Serial No. 20,152. Term of patent 3½ years.



The ornamental design for a closed vehicle body as shown.

76,411. SHOE SOLE. LAURENCE M. OAKLEY, Trenton, N. J. Filed Oct. 22, 1927. Serial No. 23,840. Term of patent 14 years.



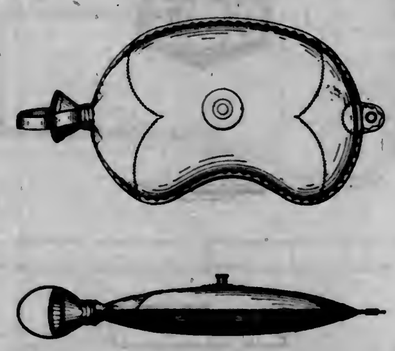
The ornamental design for a shoe sole as shown.

76,412. TIE CLIP. WILLARD A. ORMSBEE, Taunton, Mass. Filed Nov. 3, 1926. Serial No. 19,581. Term of patent 8½ years.



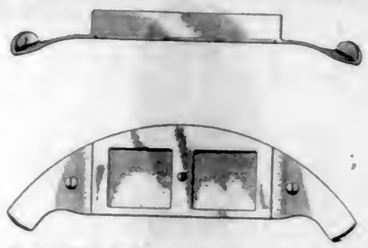
The ornamental design for a tie clip, substantially as shown.

76,413. HOT-WATER BOTTLE OR SIMILAR ARTICLE. STEPHEN L. PALMER, Teaneck, N. J. Filed June 7, 1928. Serial No. 27,035. Term of patent 7 years.



The ornamental design for a hot water bottle, or similar article, as shown.

76,414. MEMORANDUM HOLDER FOR AUTOMOBILE STEERING WHEELS. JOSEPH POLITE, Detroit, Mich. Filed Oct. 19, 1925. Serial No. 15,168. Term of patent 14 years.



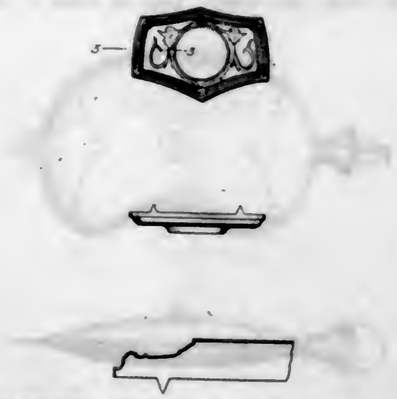
The ornamental design for a memorandum holder for automobile steering wheels, as shown.

76,415. HINGE FOR AN EYEGLASS FRAME. JACOB J. POMERANZ, Brooklyn, N. Y. Filed May 11, 1928. Serial No. 26,638. Term of patent 14 years.



The ornamental design for a hinge for an eyeglass frame as shown and described.

76,416. ESCUTCHEON PLATE. JOHN J. PUNKE, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Virginia. Filed May 21, 1928. Serial No. 26,796. Term of patent 7 years.



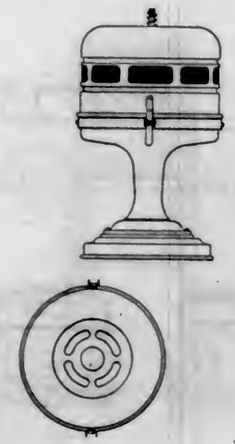
The ornamental design for an escutcheon plate, substantially as shown.

76,417. SMOKER'S RECEPTACLE. BENJAMIN PUTTERMAN, Brooklyn, N. Y., assignor to American Auto Lamp Co., Inc., a Corporation of New York. Filed Mar. 21, 1928. Serial No. 25,940. Term of patent 14 years.



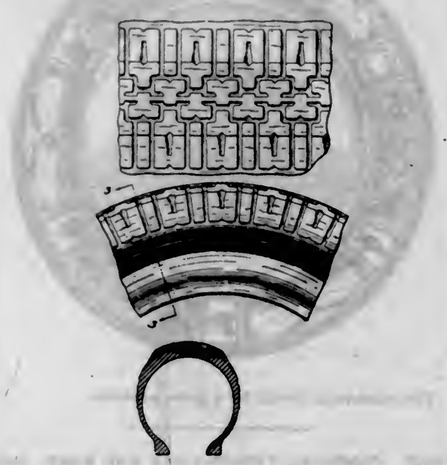
The ornamental design for a smoker's receptacle, substantially as shown.

76,418. CASING FOR CORN-POPPING MACHINE. JAMES H. REICHART, Muncie, Ind. Filed June 18, 1928. Serial No. 27,189. Term of patent 14 years.



The ornamental design for a casing for corn popping machine, as shown.

76,419. VEHICLE TIRE. ISIDORE J. REMARK, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 27, 1928. Serial No. 26,476. Term of patent 14 years.



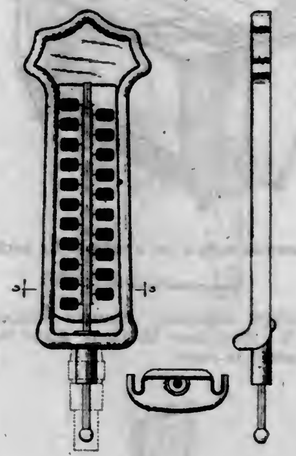
The ornamental design for a vehicle tire as shown.

76,420. DISH OR SIMILAR ARTICLE. JOSEPH S. RICHARDSON, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1928. Serial No. 26,379. Term of patent 3½ years.



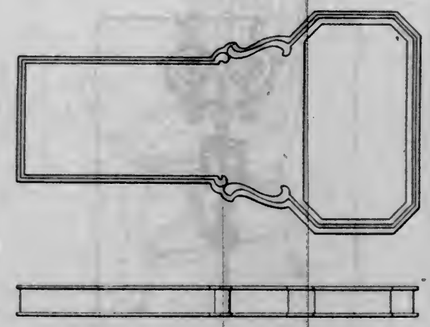
The ornamental design for a dish or similar article, as shown.

76,421. THERMOMETER. ALEXANDER D. ROSE, Chicago, Ill., assignor to Jas. P. Marsh & Company, Chicago, Ill., a Corporation of Illinois. Filed June 15, 1928. Serial No. 27,144. Term of patent 14 years.



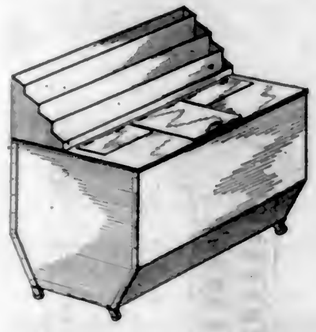
The ornamental design for a thermometer, as shown.

76,422. SIGN. HARRY G. RUSSELL, Battle Creek, Mich., assignor to Consolidated Electric Sign Corporation, Battle Creek, Mich. Filed July 28, 1927. Serial No. 22,902. Term of patent 3½ years.



The ornamental design for a sign, as shown.

76,423. CABINET FOR BOTTLE COOLERS. JOHN M. SCHILLING, Lima, Ohio. Filed Dec. 19, 1927. Serial No. 24,551. Term of patent 14 years.



The ornamental design for a cabinet for bottle coolers as shown.

76,424. WATCH HOLDER. HERMAN SCHLACHT, New York, N. Y. Filed June 13, 1928. Serial No. 27,106. Term of patent 14 years.



The ornamental design for a watch holder, as shown.

76,425. EMBROIDERED TEXTILE FABRIC. WERNER SCHMID, White Plains, N. Y., assignor to Audrey Dreifuss, Emil Dreifuss, Jerome Dreifuss, Louis Dreifuss, and Sybille Dreifuss, Copartners, doing business as National Lace and Embroidery Company, New York, N. Y. Filed Apr. 28, 1928. Serial No. 26,500. Term of patent 7 years.



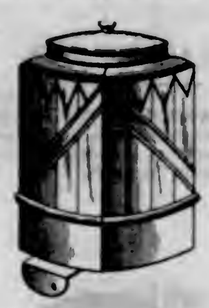
The ornamental design for embroidered textile fabric, as shown.

76,426. PLATE. EMIL L. SCHNEPF, Trenton, N. J., assignor to Scammell China Company, Trenton, N. J. Filed Jan. 28, 1928. Serial No. 25,071. Term of patent 14 years.



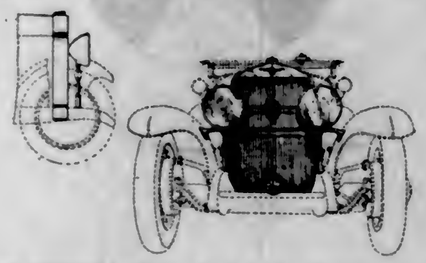
The ornamental design for a plate, as shown.

76,427. COMBINED VENDING JAR AND BASE. OTTO Y. SCHNERING, Chicago, Ill. Filed June 14, 1928. Serial No. 27,128. Term of patent 14 years.



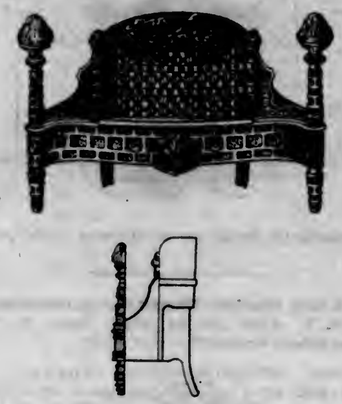
The ornamental design for a combined vending jar and base substantially as shown.

76,428. MOTOR-VEHICLE FRONT ASSEMBLY. ERNEST W. SEAHOLM and HARLEY J. EARL, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 15, 1926. Serial No. 19,737. Term of patent 14 years.



The ornamental design for a motor vehicle front assembly as shown.

76,429. GAS HEATER. WILLIAM L. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry and Manufacturing Company, Steubenville, Ohio, a Corporation of Ohio. Filed Mar. 8, 1928. Serial No. 25,763. Term of patent 7 years.



The ornamental design for a gas heater, as shown.

76,430. RADIOCABINET OR SIMILAR ARTICLE. MORRIS STETTNER, Brooklyn, N. Y. Filed May 25, 1928. Serial No. 26,858. Term of patent 3½ years.



The ornamental design for a radiocabinet or similar article, as shown.

76,431. RADIOCABINET OR SIMILAR ARTICLE. MORRIS STETTNER, Brooklyn, N. Y. Filed May 25, 1928. Serial No. 26,859. Term of patent 3½ years.



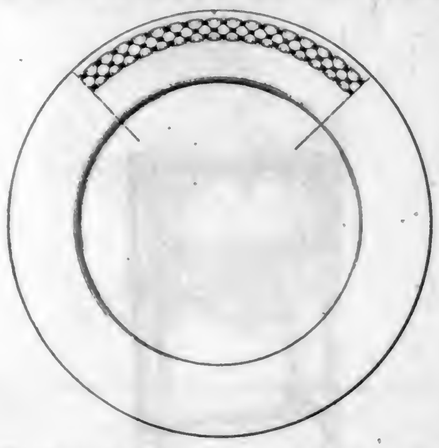
The ornamental design for a radiocabinet or similar article, as shown.

76,432. CHAIR. THEODORE N. STRAND, Los Angeles, Calif. Filed June 6, 1927. Serial No. 22,337. Term of patent 14 years.



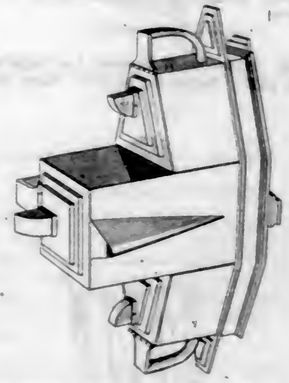
The ornamental design for a chair, as shown.

76,433. PLATE OR SIMILAR ARTICLE. WILLIAM H. TAMS, Trenton, N. J. Filed June 21, 1928. Serial No. 27,218. Term of patent 7 years.



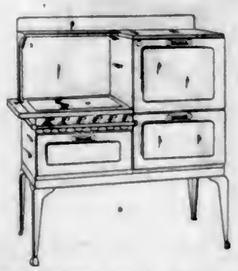
The ornamental design for a plate or similar article, as shown and described.

76,434. TABLE SET. JEAN THEOBALD, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed June 29, 1928. Serial No. 27,321. Term of patent 7 years.



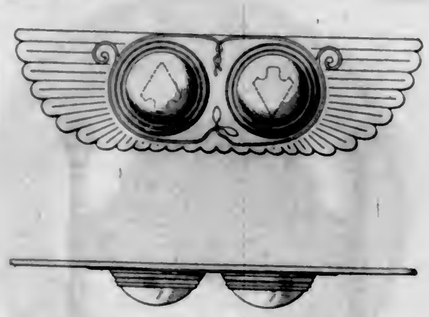
The ornamental design for a table set as shown.

76,435. STOVE. ALBERT H. TINNERMAN, Cleveland, Ohio. Filed Feb. 10, 1928. Serial No. 25,353. Term of patent 14 years.



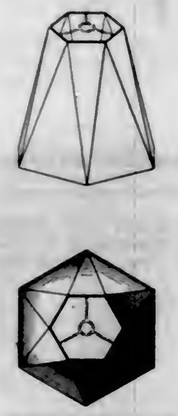
The ornamental design for a stove substantially as shown, and described.

76,436. ELEVATOR-SIGNAL PANEL. PAUL SCHUYLER VAN BLOEM, Great Neck, N. Y., assignor to Viking Products Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1927. Serial No. 24,646. Term of patent 3½ years.



The ornamental design for an elevator s'gnal panel, as shown.

76,437. LAMP SHADE. DÉSIRÉ VANDE GENACHTE, New York, N. Y. Filed Jan. 24, 1928. Serial No. 25,016. Term of patent 7 years.



The ornamental design for a lamp shade as shown.

76,438. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,266. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,439. DRAPERY-POLE SOCKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,272. Term of patent 3½ years.



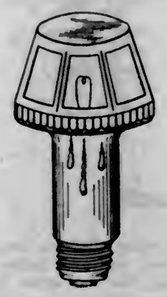
The ornamental design for a drapery pole socket, as shown.

76,440. NARROW WOVEN TRIMMING. CHARLES S. WACKERMAN, Bridgeport, Conn. Filed July 3, 1928. Serial No. 27,372. Term of patent 7 years.



The ornamental design for narrow woven trimming substantially as shown.

76,441. INCANDESCENT-LAMP BULB OR SIMILAR ARTICLE. ALFRED WEBER, New York, N. Y. Filed July 19, 1928. Serial No. 27,529. Term of patent 7 years.



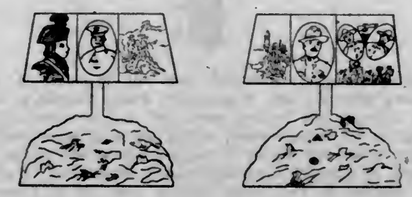
The ornamental design for an incandescent-lamp bulb or similar article, substantially as shown.

76,442. HEAD FOR LIGHTING UNITS. FRANK G. WELSCH, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1928. Serial No. 27,243. Term of patent 14 years.



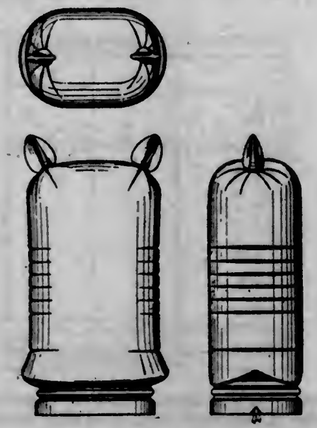
The ornamental design for a head for lighting units substantially as shown.

76,443. ELECTRIC TABLE LAMP. SAMUEL WESTERFIELD, New York, N. Y. Filed Sept. 10, 1927. Serial No. 23,354. Term of patent 3½ years.



The ornamental design for an electric table lamp as shown.

76,444. LIGHT GLOBE. STANTON D. WILSON, St. Louis, Mo. Filed June 16, 1928. Serial No. 27,165. Term of patent 14 years.



The ornamental design for a light globe, as shown.

76,445. WATCH DIAL OR SIMILAR ARTICLE. SAN DOW JACK YUEN, New York, N. Y. Filed June 19, 1928. Serial No. 27,198. Term of patent 3½ years.



The ornamental design for a watch dial or similar article substantially as shown.

76,446. TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE. SALIM G. ZAROU, Brooklyn, N. Y., assignor to Zarou Bros., New York, N. Y., a Partnership composed of Salim G. Zarou and Abraham G. Zarou, Brooklyn, N. Y. Filed Mar. 20, 1928. Serial No. 25,926. Term of patent 3½ years.

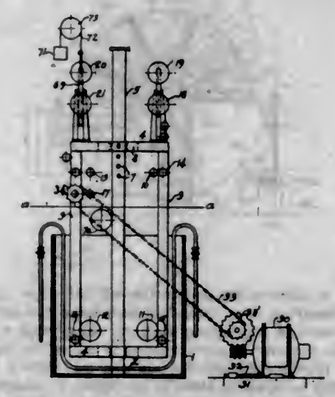


The ornamental design for a textile fabric or similar article of manufacture substantially as shown.

PATENTS

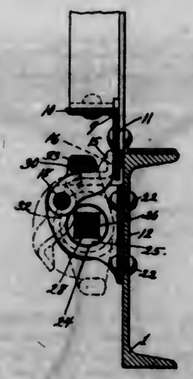
GRANTED SEPTEMBER 25, 1928.

1,685,078. SATURATOR. FLOYD W. ADAMS, Peoria, Ill., assignor to The Barrett Company, a Corporation of New Jersey. Filed Apr. 19, 1923. Serial No. 633,080. 7 Claims. (Cl. 91—46.)



4. In a device of the character described, a saturating tank, a band having parallel portions moving in the same direction and adapted to receive an object between said portions, said band passing into said tank.

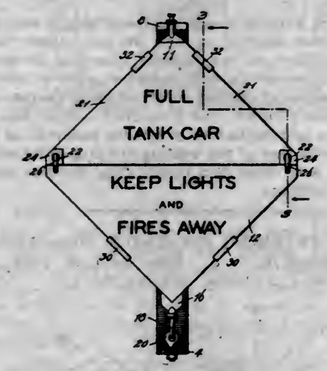
1,685,079. CANE CAR. JOSEPH C. ABEL, Westwood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed July 28, 1926. Serial No. 125,442. 19 Claims. (Cl. 105—308.)



1. In a car, a gate pivotally mounted at its upper edge and adapted to swing to closed position by gravity, a pivotally mounted latch for said gate and a pivotally mounted locking means for said latch mounted inwardly of and below said latch.

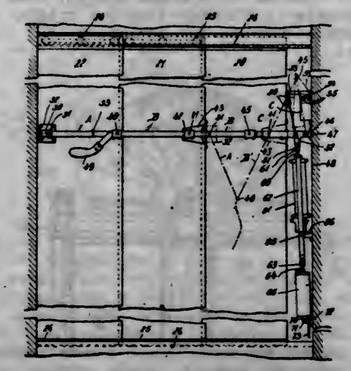
2. In a car, a gate pivotally mounted at its upper edge and adapted to swing to closed position by gravity, a pivotally mounted latch for said gate and a pivotally mounted locking means for said latch mounted inwardly of and below said latch and adapted to operate said latch to holding position as said locking means is moved to locking position.

1,685,080. PLACARD AND HOLDER THEREFOR. WILLIAM K. AUCHINCLOSS, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 30, 1927. Serial No. 223,064. 8 Claims. (Cl. 40—68.)



8. A device of the kind described comprising a support, a placard board permanently and pivotally secured at its lower end to the lower end of the support, and means at the upper end of the placard board for engaging the upper end of the support to secure the board to the support, said means being adjustable whereby to permit reversal of the said placard board and to tension the latter.

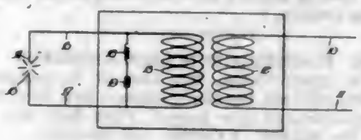
1,685,081. DOOR-CLOSURE MECHANISM. THOMAS BRADY, East Orange, N. J., assignor, by mesne assignments, to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 29, 1923. Serial No. 665,532. 3 Claims. (Cl. 268—50.)



2. Door closure mechanism comprising lever mechanism, a rod pivoted thereto, a yoke connected to said rod, a power cylinder having a piston connected to said yoke

for actuating said yoke and rod in one direction and resilient means mounted within said yoke and operatively connected to said rod for actuating the rod in the opposite direction.

1,685,082. MEANS FOR STABILIZING AND MODIFYING THE METALLIC WELDING ARC. J BIRCHARD GREEN, Chicago, Ill., assignor to Chicago Steel & Wire Company, Chicago, Ill., a Corporation of Illinois. Filed June 12, 1926. Serial No. 115,502. 3 Claims. (Cl. 219—8.)



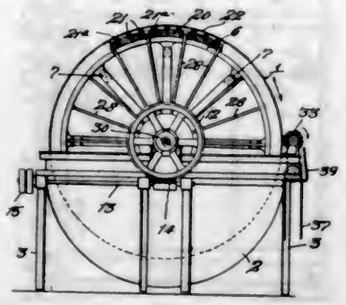
1. An arc welding apparatus comprising a set of welding electrodes adapted to form an arc, circuit elements including inductance and capacity connected between said electrodes to constitute with the welding arc an oscillatory circuit, a source of current supply of lower frequency than said oscillatory circuit, and a connection from said source of supply to said oscillatory circuit for maintaining therein oscillations by way of the welding arc formed between said electrodes, said connection constituting the sole source of supply for said arc.

1,685,083. SWIMMING APPARATUS. GEORG PAUL HOPPMANN, Brooklyn, N. Y. Filed Sept. 28, 1927. Serial No. 222,421. 2 Claims. (Cl. 9—18.)



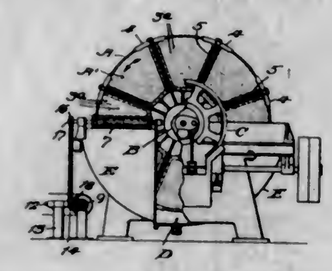
1. A swimming apparatus comprising a vest, a girdle, a frame attached to said vest and girdle, depending fins pivoted in said frame, and means for swinging said fins to and fro, an arm pivoted in said frame and a thong adapted to be connected to the foot of a swimmer for moving said fin, a lever, a connecting rod joining said arm and lever, and means for normally retracting said fins.

1,685,084. APPARATUS FOR SEPARATING LIQUID FROM PULP FIBERS. JOHN H. HOYT, Hazleton, Pa., assignor to United Filters Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 1, 1924. Serial No. 689,938. 6 Claims. (Cl. 92—36.)



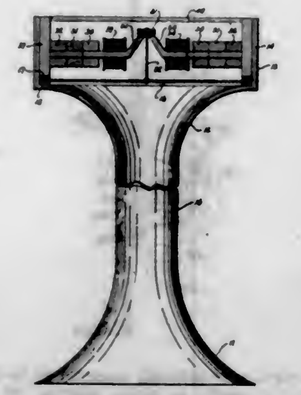
1. In an apparatus for separating liquid from pulp fibers, a receptacle for the pulp solution, a drum extending into the receptacle, means to rotate the drum, a perforated smooth surfaced separating plate on the surface of the drum, means to pass the liquid through said perforations to deposit a layer of pulp on said perforated plate in the solution, and means comprising a rotating brush to remove the deposit from the perforated plate in a substantially continuous sheet.

1,685,085. DEWATERING APPARATUS. JOHN T. HOYT, Hazleton, Pa., assignor to United Filters Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 1, 1924. Serial No. 689,939. 19 Claims. (Cl. 92—36.)



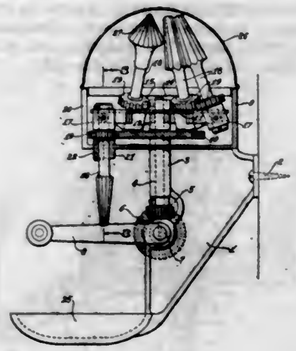
1. In a dewatering apparatus of the type described, the combination of a tank for containing the solution to be dewatered, a separating medium, comprising a smooth, fine mesh perforated plate, means to move the separating medium through the solution, means to create a pressure differential on opposite sides of the plates to pass the water through the perforations to deposit the solid material on the exposed surface of the plate, and means to substantially completely clean the separating medium during each cycle of filter operation.

1,685,086. LOUD-SPEAKER UNIT. MILLER REESE HUTCHISON, Llewellyn Park, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 26, 1927. Serial No. 171,350. 9 Claims. (Cl. 179—109.)



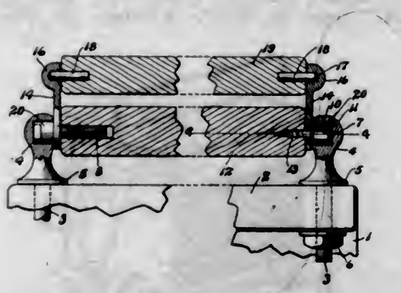
1. In a telephone device, the combination of stationary electromagnets having alined cores, the end portions thereof being bent into partial convergence, a movable armature positioned adjacent the ends of said cores on one side of the magnet, a diaphragm on the opposite side of the magnet and operatively connected to the armature, and a resonant chamber adjacent said diaphragm for emphasizing the action of the diaphragm with respect to predetermined notes of the musical register.

1,685,087. APPARATUS FOR REAMING SMOKING PIPES. HAROLD M. JOHNSON, St. Louis, Mo. Filed Nov. 30, 1927. Serial No. 236,639. 8 Claims. (Cl. 131—18.)



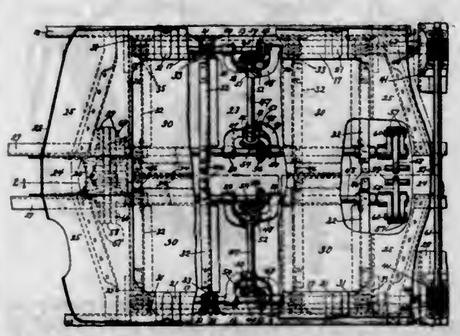
1. An apparatus for reaming smoking pipes, comprising, a support, a series of reamers mounted on said support for movement to reaming position, a guide on said support adapted to receive a reamer when moved to reaming position, and means for driving the reamer in said guide.

1,685,088. TOILET-SEAT HINGE. PAUL A. JOHNSON, Grand Haven, Mich., assignor of one-half to Alvin E. Jacobson, Grand Haven, Mich. Filed May 7, 1928. Serial No. 275,686. 4 Claims. (Cl. 4—236.)



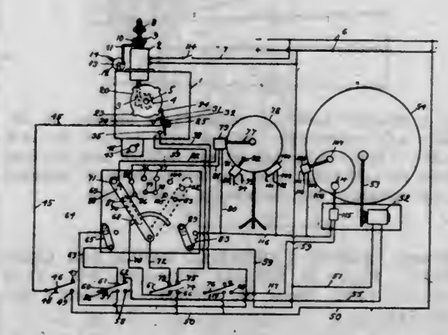
1. A hinge comprising, a vertical post having a head at the upper end thereof, said head having a horizontal cylindrical opening in one side, a hinge member comprising a threaded rod, an arm projecting laterally from one end of the rod and a threaded extension having an axis paralleling the axis of the rod extending from said arm, said extension having a cylindrical opening substantially therethrough, a bar of metal having an opening at one end to pass over said arm and a cylindrical nut threaded on to said extension and against the outer side of said bar, said nut being received within the opening in said head and said bar extending upwardly above the arm and formed at its upper end with a head having a horizontal opening at its inner side.

1,685,089. HOPPER CAR. ADOLPH KASSLER, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 16, 1923. Serial No. 657,721. 23 Claims. (Cl. 105—250.)



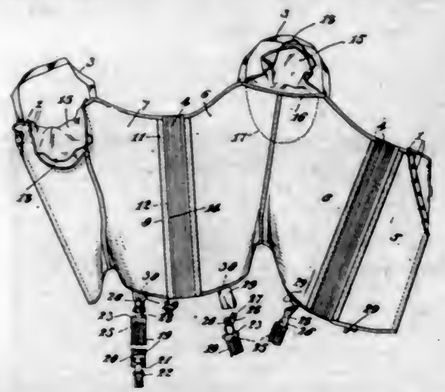
1. A hopper car having a single discharge opening and a pair of longitudinally arranged drop doors hinged at the car sides and closing said opening, transmission mechanism carried by said doors, an operating shaft adjacent one end of said doors and connecting the transmission mechanism of one door to the other, and loose connections between said operating shaft and transmission mechanism.

1,685,090. AUTOMATIC DRUM. ALEX M. LIFSHITZ, Brooklyn, N. Y. Filed Sept. 27, 1927. Serial No. 222,395. 7 Claims. (Cl. 84—104.)



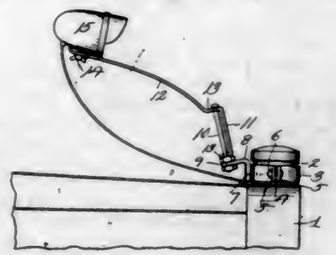
5. In an automatic drum, the combination with a plurality of electromagnetic devices for operating said drum, a plurality of contact members for said devices, a cylindrical member, a plurality of sections on said cylindrical member, said sections being adapted to operate said contact members in a predetermined order, means to change the relative position of said sections and said contact members thereby changing the order of operation of said devices, electrical connections for said contact members, and manually operated means to change said electrical connections.

1,685,091. APPAREL. ANNA LIFTER, New York, N. Y. Filed Dec. 19, 1922. Serial No. 607,769. 1 Claim. (Cl. 2—33.)



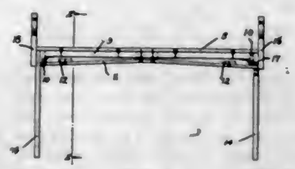
A brassière including a band, short downwardly extending tabs, each comprising a ribbon loop stitched adjacent the edges thereof to the lower edge of the brassière, and hose supporters having fastening devices at the upper ends thereof, said devices comprising each a stud carrying tongue and a gripping loop straddling the corresponding tab and gripping the material thereof therebetween.

1,685,092. DIRIGIBLE HEADLIGHT. FRANK LIPKE, Mishawaka, Ind. Filed June 11, 1927. Serial No. 198,019. 3 Claims. (Cl. 240—62.)



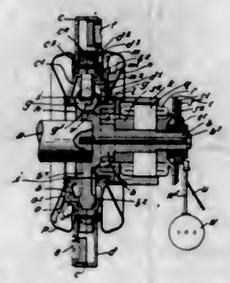
1. A dirigible headlight comprising a bracket, an upwardly and rearwardly inclined arm carried by said bracket, a lamp rearwardly of the inclined arm, an arm carried by said lamp, said arm being pivotally mounted on the upwardly and rearwardly inclined arm.

1,685,093. BATHTUB DRESSING TABLE FOR CHILDREN. FRANK M. MCENIRY, Milwaukee, Wis. Filed Dec. 10, 1926. Serial No. 153,835. 2 Claims. (Cl. 45—51.)



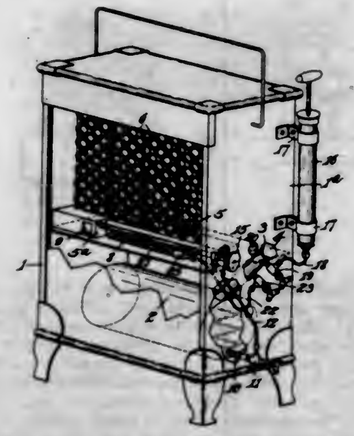
2. A folding bath tub table, comprising a platform portion, a pair of spaced apart strips secured to opposite sides of the under surface of the platform portion, a pair of foldable strips adjacent the end portions of the first-mentioned strips and at right angles thereto, said foldable strips being hinged to the first-mentioned strips, a pair of legs secured to each of the foldable strips, a side member secured to each pair of legs and the adjacent foldable strip, said side members being outwardly of the side edges of the platform portion and normally extending vertically thereabove, and a pair of connected together flexible locking members secured medially to the under surface of the board and adapted to releasably abut against said sides when the same are in open position.

1,685,094. METHOD AND DEVICE FOR BALANCING ROTATING-MACHINE-PARTS. EDWIN ALWIN FRANKLIN PUNOA, Mulheim-on-the-Ruhr, Germany. Filed Mar. 26, 1921, Serial No. 456,036, and in Germany Apr. 1, 1919. 17 Claims. (Cl. 73—51.)



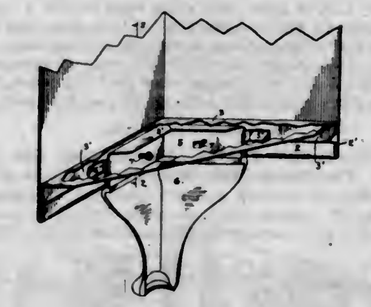
1. A method of balancing rotating bodies, which comprises mounting the body to be balanced on a yielding support whereby the former may vibrate, mounting balancing weights off the axis of rotation of and for coaxial rotation with said body, rotating the latter and rotating the weights at different speeds relative to the speed of rotation of the body, so that the change of position of both weights with respect to the body is simultaneous and automatic with the change in their relative position one to the other.

1,685,095. HYDROCARBON HEATING STOVE. HARVEY BENDER REPPETTO, Clyde, Ohio. Filed Feb. 7, 1927. Serial No. 166,327. 9 Claims. (Cl. 126—93.)



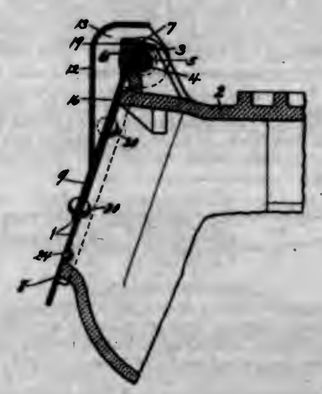
5. A radiant heater of the character described comprising a casing of open-front type having radiants mounted therein, a manifold within said casing through which vaporized fuel is supplied to said radiants, a liquid fuel reservoir located within said casing at a level below that of the generator, a pump mounted in fixed position on the casing and having connection with said reservoir whereby air pressure may be introduced within said reservoir, a generator opening into said manifold and adapted to receive fuel from said reservoir by the force of pressure contained within the latter, and means for heating said generator, said means including a preliminary heating device adapted to be initially supplied with gas impregnated air from within the top portion of the reservoir, and thereafter to be supplied from another source.

1,685,096. STOVE-LEG CONNECTION. EDWIN A. RUTENBER, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 18, 1927. Serial No. 199,657. 11 Claims. (Cl. 126—305.)



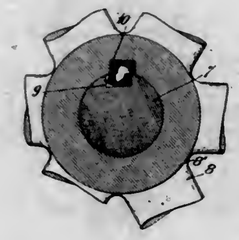
1. In a stove leg connection, a leg proper having a flange at its top, a frame member and a bracket secured together and having spaced portions to receive the leg flange, said members supporting a bottom member which is connected therewith.

1,685,097. JOURNAL-BOX LID. ROBERT J. SCHEIBLI, Jr., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed July 28, 1926. Serial No. 125,448. 6 Claims. (Cl. 308—47.)



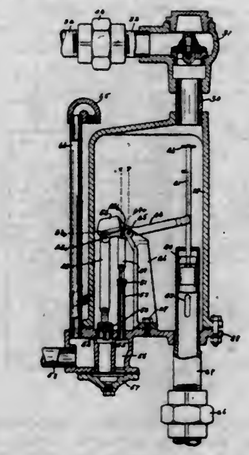
1. In combination, a casing open at one end, a pivotally supported closure therefor, and a resilient plate of substantially the same width as the closure secured thereto and having attaching portions extending adjacent the sides of the closure and a free resilient tongue intermediate the attaching portions and bearing against a fixed abutment adjacent the pivoted end of the closure whereby to exert a uniform pressure on the closure for substantially the entire width thereof.

1,685,098. DRIVING KEY. MAX SKLOVSKY, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 7, 1927. Serial No. 173,278. 9 Claims. (Cl. 64—105.)



2. A safety driving key of the class described consisting of a hollow bar of rectangular cross section.

1,685,099. WATER SYSTEM. JASPER A. SMITH, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Continuation of application Serial No. 69,312, filed Nov. 16, 1925. This application filed Feb. 28, 1927. Serial No. 171,515. 19 Claims. (Cl. 137—79.)

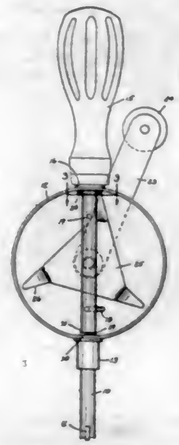


18. An air charging apparatus for a water system comprising in combination a chamber, a drain passage communicating with the chamber, an air passage communicating with the chamber near its bottom, and means for opening and closing the passages in response to the flow of water through the chamber.

1,685,100. GRINDING TOOL. DAVID L. SPRAKER, Indianapolis, Ind., assignor to Spraker Manufacturing Company, Indianapolis, Ind., a Corporation. Filed May 21, 1926. Serial No. 110,681. 2 Claims. (Cl. 74—14.)

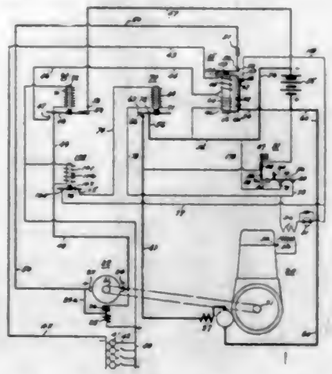
1. A grinding tool including a rotatable shaft, a pair of pins on said shaft positioned in different radial planes and in different parallel planes transverse to the shaft, a tri-

angular star-wheel having a plurality of radial extending fingers spaced apart, said fingers being adapted to engage first with one pin and then with the other for rotating said



tool in opposite directions, said fingers being equi-distant from the axis of the star-wheel and the latter being between said parallel planes.

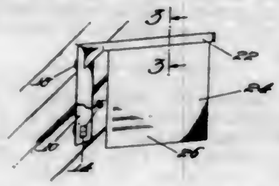
1,685,101. ELECTRICAL GENERATING SYSTEM. FRANK F. STARR, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 30, 1926. Serial No. 84,803. 5 Claims. (Cl. 290—30.)



3. An electrical generating system comprising, in combination, a prime mover, a generator driven thereby, a work circuit supplied by the generator, and a single electromagnetic device, for maintaining said engine operative while the generator supplies current to the work circuit and for interrupting the flow of current from the generator to the battery when the current demand in the work circuit exceeds a certain amount.

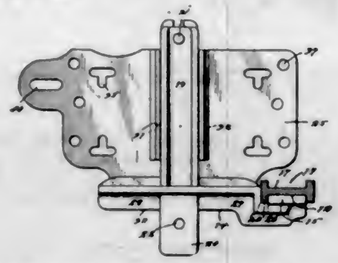
1,685,102. ADVERTISING DEVICE. W. KEATH SUMMERHAYES, Jr., Louisville, Ky. Filed May 21, 1926. Serial No. 110,669. 1 Claim. (Cl. 40—128.)

In an advertising device, a display means comprising a single sheet of stamped material including three portions connected to each other, a base member, a bracket member and an arm member, said base member comprising a rectangular element connected to the remaining portions by a substantially narrow strip at the side of one of its shorter edges and adapted to be bent double longitudinally to provide front and rear faces, the rear face having openings for the reception of supporting elements; the bracket member being adjacent the base member and comprising a polygonal element having two parallel sides and two angularly converging sides disposed at approximately right angles to each other, the longer of the parallel sides being



adjacent the bracket member, and the whole element adapted to be doubled upon itself along substantially a central line to contact with the base element in a supporting position; and an extending arm comprising a rectangular strip doubled upon itself longitudinally and provided with inwardly and upwardly turned edges having a space therebetween for the reception and rejection of a placard.

1,685,103. MOTOR STAND. MAX TAIGMAN, New York, N. Y. Filed Feb. 9, 1923. Serial No. 617,964. 2 Claims. (Cl. 248—14.)



2. In a device of the class described, the combination of a base plate, a bracket for supporting the same, said bracket including a vertically disposed pedestal piece and a horizontally disposed extension integrally connected, said extension being substantially T-shaped in vertical cross-section to form a flat support for the plate and a deep vertically extending web, said pedestal piece and said extension coacting to form a slot therebetween adapted to receive a flange of a channel shaped supporting upright.

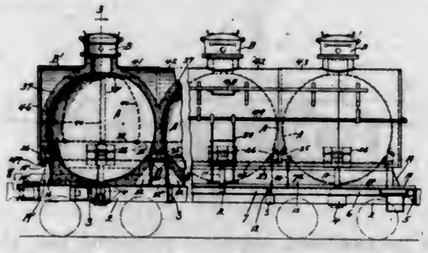
1,685,104. CAR UNDERFRAME. JOHN D. THOMPSON, Union City, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 1, 1927. Serial No. 180,185. 19 Claims. (Cl. 105—414.)



9. In an underframe, a center sill having a plurality of top and bottom flanges, vertical webs connecting the top and bottom flanges, and an arch-shaped portion connected to the bottom flanges and arranged intermediate the vertical webs.

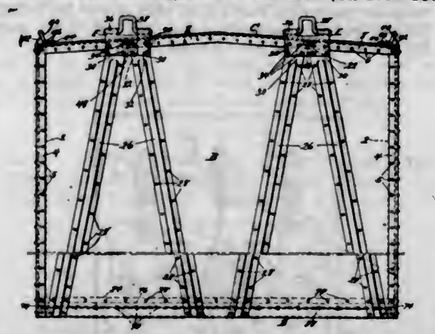
16. In combination, flanged side sills, a bolster, relatively short reinforcing members secured to the side sills adjacent to bolster, an end sill, a center sill, tie plates connecting the reinforcing members and the bolster, and flanged members of gradually increasing height secured to the center sill and extending from the rear of the bolster to the end sill.

1,685,105. MULTIUNIT TANK CAR. JOHN D. THOMPSON, Union City, and VICTOR WILLOUGHBY, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed July 1, 1927. Serial No. 202,869. 15 Claims. (Cl. 105—360.)



1. In a tank car, an underframe having side and center sills, cross bearers carried by the underframe and defining a plurality of tank receiving areas, supporting means carried by said side sills and cross bearers, and tanks in said tank receiving areas mounted on said supporting means.

1,685,106. CONTAINER. JOHN D. THOMPSON, Union City, and VICTOR WILLOUGHBY, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 7, 1927. Serial No. 224,687. 10 Claims. (Cl. 105—366.)



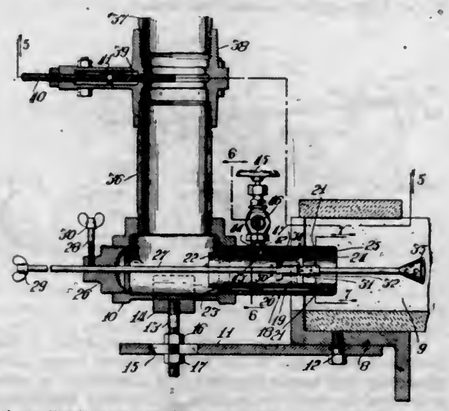
1. A container comprising side and end walls, external and internal angles connecting adjacent corners of said walls, a top, carlines and purlins secured to the top, a bottom, reinforcing elements secured to the side and end walls, a base secured to the bottom and on which the container is supported, a door mounted in one of said walls, and loops secured to the container and adapted to be engaged by a crane or the like whereby the container may be lifted and moved about.

1,685,107. TRUSSED STRUCTURE. HAROLD G. TREGLUS, Park Ridge, Ill. Filed July 14, 1924. Serial No. 725,883. 5 Claims. (Cl. 108—28.)



1. In a structure of the character described, the combination of a truss, including angularly disposed upper chord members, and an unbroken arched member substantially continuously connected thereto, said arched member being disposed relatively to the angularly disposed upper chord members of the truss so that it crosses and recrosses said angularly disposed upper chord members, said arched member being of curved laminated construction.

1,685,108. OIL BURNER FOR FURNACES. GEORGE E. TUFFLEY, Syracuse, N. Y., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed July 16, 1925. Serial No. 43,930. 13 Claims. (Cl. 158—76.)



1. A liquid fuel burner comprising a nozzle formed of inner and outer pipes, the stationary inner pipe being spaced apart from the outer pipe to form a passage between said pipes, means for supplying air to said passage and to the inner pipe, means for supplying oil to the inner pipe, means in said inner pipe for atomizing the fuel, an adjustable spreader located in the path of the mixture discharged from said nozzle, and means for simultaneously adjusting said fuel atomizing means and said spreader.

1,685,109. GAUGE. CHARLES WEBER, Jr., Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a Corporation of Indiana. Filed Mar. 28, 1927. Serial No. 178,822. 4 Claims. (Cl. 33—168.)

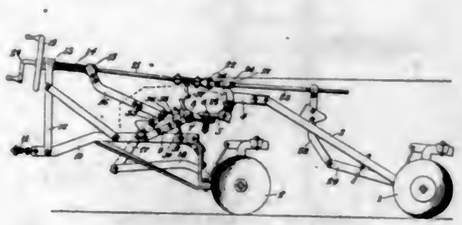


1. A pad gauge comprising a gauge bar, there being indicia on the bar indicating the pad number, and means on the bar adapted to contact one side of the pad, whereby the opposite side thereof is caused to register with indicia on said gauge bar to indicate the pad number.

1,685,110. TANDEM-DISK HARROW. CHARLES H. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Oct. 10, 1923. Serial No. 667,661. 10 Claims. (Cl. 55—83.)

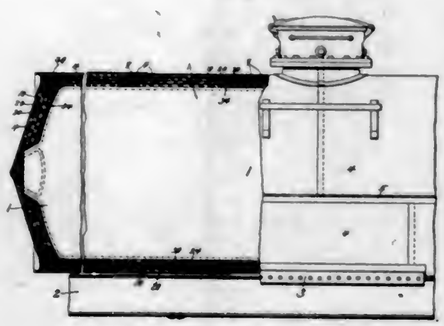
1. A disk harrow comprising vertically swingably adjustable front and rear harrow frames, draft means connected with the front frame, means connecting said frames together in tandem relation for lateral and vertical swing-

ing relatively to each other, and means connected with said connecting means and with one of said frames and operable to move said connecting means to vary the line of draft applied to the rear frame vertically with relation to the line of draft applied to the front frame.



10. In a disk harrow having in combination a front frame and disk gangs, a rear frame and disk gangs, means connecting the frames together and adapted to be raised or lowered to vary the position of the rear frame vertically relative to the front frame, said means including a rockable member pivotally mounted on the front frame and extending rearwardly, means supporting the rear frame on said member, a screw pivotally attached to the front frame, and a rotatable device secured on said member and engaging with said screw and operable to rock said member to raise or lower the rear frame.

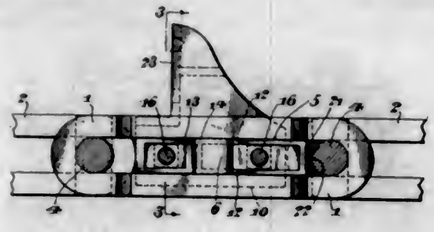
1,685,111. INSULATED TANK CAR. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 17, 1925. Serial No. 56,992. 15 Claims. (Cl. 154—44.)



8. A heat insulation structure for use between a tank and a sheathing therefor, comprising laminations having fastening elements for connecting adjacent laminations, the fastening elements of a given lamination being staggered with respect to the fastening elements of adjacent laminations whereby heat conductive contact between the outer and inner sides of said structure is interrupted by insulating material.

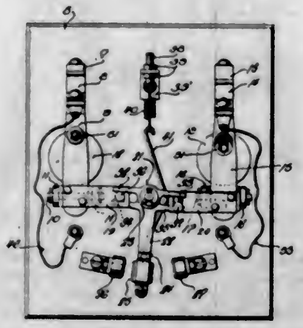
14. In a tank, means insulating the same comprising a plurality of contiguous sheathing sections having laminated insulating material secured thereto, the insulating material of adjacent sections being overlapped forming staggered joints substantially adjacent the meeting edges of the sheathing sections.

1,685,112. ATTACHMENT FOR CHAINS. GEORGE W. WILMOT, Hazleton, Pa., assignor to Wilmot Engineering Company, Hazleton, Pa., a Corporation of Pennsylvania. Filed May 22, 1926. Serial No. 110,860. 5 Claims. (Cl. 198—176.)



5. An attachment adapted to be mounted upon a selected link of a heavy duty chain, the said attachment being provided with a contact portion intermediate its ends for contacting with a portion located intermediate the opposite ends of said link, the said portion being integral with and extending transversely of said link, and with a portion at one of its ends for contacting with an element for connecting the said link to adjoining links of the chain structure.

1,685,113. MECHANICAL MOVEMENT. GUSTAV O. WILMS, Milwaukee, Wis., assignor to The Reliance Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed Apr. 3, 1922, Serial No. 549,353. Divided and this application filed Nov. 15, 1924. Serial No. 750,163. 5 Claims. (Cl. 74—14.)

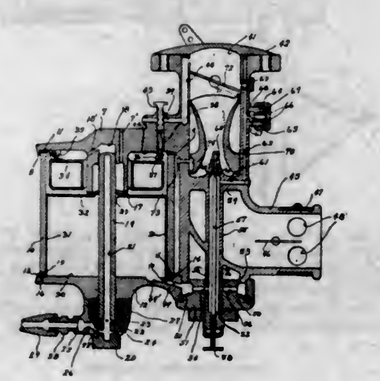


1. A mechanical movement, comprising a movable member, an arm movable between predetermined spaced points, means normally urging the arm to engage either of said points, a connection between said member and arm whereby a movement of the member to one position moves the arm against its urging means to one side of an imaginary line drawn between the points from where the urging means tends to move the arm toward the adjacent point, and means holding the arm spaced from the adjacent point against its urging means, said last means permitting the arm to be moved by its urging means to complete its movement toward the adjacent point upon the reverse movement of the member a predetermined distance.

1,685,114. CARBURETOR. HALSEY C. ABERN, Chicago, Ill. Filed Sept. 19, 1925. Serial No. 57,331. 3 Claims. (Cl. 158—36.1.)

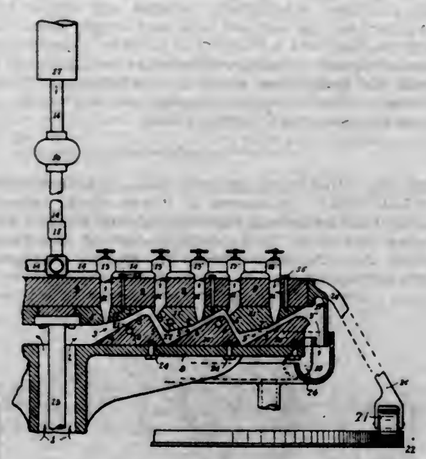
1. A carburetor adapted for use with an internal combustion engine having an intake manifold comprising chamber bearing means adapted for attachment to, in

communication with, said manifold; a flexible dividing member adapted for dividing said carburetor into a pair of compartments, said compartments being normally in communication with each other and said flexible member being adapted for sealing said compartments from communication with each other upon the flexing of said mem-



ber beyond a predetermined point in one direction; fluid conducting means communicating with one of said compartments and adapted for delivering fluid thereinto; a float mounted in said compartment last mentioned; means operable by said float for closing communication of said compartment with said manifold upon the delivery of a predetermined amount of fluid into said compartment.

1,685,115. APPARATUS FOR MAKING COLLOIDAL FUEL. HENRY ADAMS, Plainfield, N. J. Filed Mar. 13, 1925. Serial No. 15,251. 30 Claims. (Cl. 83—7.)



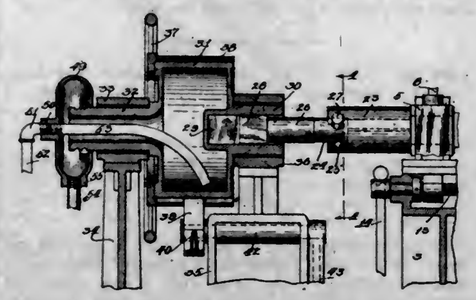
1. In apparatus of the character described, in combination, means for pulverizing carbonaceous substances by continuous and successive steps, and means for supplying material to the first mentioned means during all of said steps for coating the pulverized particles with a film.

1,685,116. TRAY AND METHOD OF MAKING SAME. ABRAHAM BARCHOFF, New York, N. Y. Filed Oct. 28, 1924. Serial No. 746,274. 1 Claim. (Cl. 65—15.)



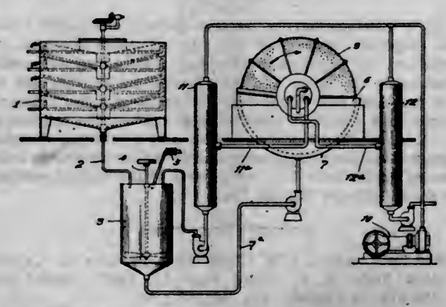
A sheet metal tray having its upper surface indented to form a median channel with branches extending laterally to both sides of both ends thereof, each branch having at its extremity a conform additional depression, said depressions in said upper surface producing embossments which serve as supports on the lower surface of said tray.

1,685,117. PAPER-UNWINDING STAND WITH WATER-COOLED DRUM. EARL ELWIN BERRY, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis. Filed Apr. 18, 1924. Serial No. 707,403. 6 Claims. (Cl. 242—55.)



2. In a reeling off stand, supporting members, a spool rotatably supported by said members, a brake mechanism, and a unitary separable connecting bar adapted to be slidably engaged with said brake mechanism and removably engaged with said spool, the ends of said bar being supported by said brake mechanism and said spool respectively.

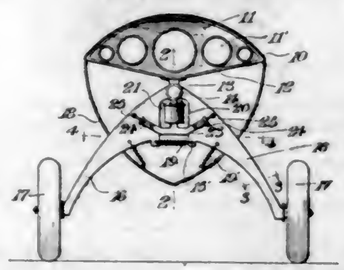
1,685,118. PROCESS FOR RECOVERING SUGAR VALUES. ROBERT C. CAMPBELL, Millburn, N. J., assignor to United Filters Corporation, Hazleton, Pa., a Corporation of Delaware. Filed May 7, 1925. Serial No. 28,549. 14 Claims. (Cl. 127—55.)



1. The method of recovering sugar values from the muds separated from sugar juices which comprises continuously filtering the muds, continuously returning the

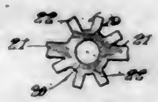
cloudy portion of the filtrate to a previous point in the process, continuously collecting any remaining portion of the filtrate and continuously washing the filter cake and collecting the wash water, and completely cleaning the filter surface at each cycle of the filter operation.

1,685,119. LANDING GEAR FOR FLYING MACHINES. EDMUND B. CARNS, New York, N. Y. Filed Mar. 31, 1927. Serial No. 179,989. 11 Claims. (Cl. 244—2.)



1. A flying machine having a fuselage and branching legs having a common pivot connected to the fuselage above the center of gravity of the fuselage.

1,685,120. NUT LOCK. EDMUND B. CARNS, New York, N. Y. Filed Apr. 9, 1927. Serial No. 182,211. 1 Claim. (Cl. 151—3.)



As an improved article of manufacture, a nut lock flat washer of soft metal having on its periphery diametrically opposed relatively large arms and having other and smaller arms irregularly spaced extending from its periphery between the first mentioned arms, all said arms lying normally in the plan of the washer body.

1,685,121. FUSELAGE. EDMUND B. CARNS, New York, N. Y. Filed May 18, 1927. Serial No. 192,243. 15 Claims. (Cl. 244—30.)

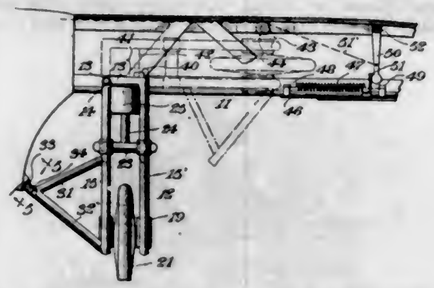


1. A fuselage having, at the corners, triangular tubular longérons, transverse ribs connecting the upper longérons and, also, the lower longérons, rigidly disposed struts connecting the upper and lower longérons on each side of the fuselage, and diagonal braces connecting the adjacent struts and ribs, and, also, bearing against the longérons.

11. A fuselage having a frame, and a covering therefor comprising an air tight metal fabric with a wire mesh body having sealed interstices with parts of the sealing omitted to form openings through the cover.

1,685,122. AIRCRAFT CHASSIS. EDMUND B. CARNS, New York, N. Y. Filed June 17, 1927. Serial No. 199,570. 8 Claims. (Cl. 244—2.)

1. An airplane having a chassis attachment hinged to swing between the wing and the side of the fuselage of the airplane, and automatic locking means acting when the chassis attachment swings downward and disposed to fasten the lower inner portion of the attachment to the fuselage and the upper outer portion to the wing.

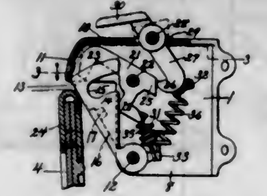


3. An airplane having a chassis attachment hinged to swing into a pocket in the frame of the plane and to swing downward along side of the fuselage of the plane, a self opening gate closing over a part of the pocket, and means controlling the gate and chassis attachment which when released permits the gate to open and the chassis attachment to drop.

1,685,123. MUSICAL-INSTRUMENT CASE. SAMUEL A. CLICK, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a Corporation of Indiana. Filed Oct. 22, 1925. Serial No. 64,266. 3 Claims. (Cl. 206—13.)

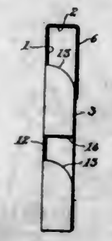
1. An interior frame for a musical instrument case of the character described comprising in combination, two side bars spaced apart, two medial bars arranged between said side bars, substantially parallel and spaced from each other and from said side bars, each of said medial bars being provided with a plurality of laterally projecting and cooperating lugs forming a plurality of compartments between said medial bars, one of said compartments having a belled end, and means for securing said bars together as a unit for arrangement within a case.

1,685,124. HOLDING MEANS FOR CAR-VESTIBULE TRAPDOORS. ALPHONSE A. CONSTANTINE, Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed July 21, 1925. Serial No. 45,091. 20 Claims. (Cl. 105—435.)



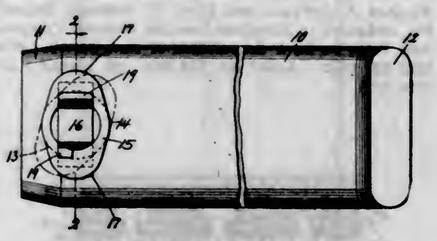
1. In a door holding device, a door holding means, a locking means for said door holding means, a door operated means for actuating said door holding means to holding position and yielding means connecting said locking and door operated means.

1,685,125. COMBINATION PACKING AND DISPLAY CONTAINER. MORRIS M. EINSON, Yonkers, N. Y., assignor to Einson-Freeman Co., Inc., a Corporation of New York. Filed Jan. 20, 1926. Serial No. 82,401. 6 Claims. (Cl. 206—44.)



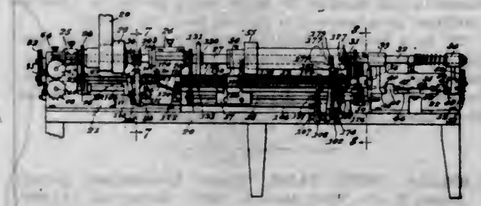
1. In a combined display stand and carton, an outside enveloping member scored and folded to form side sections with a rectangular top section in between, a tier of pockets positioned upon one of the side sections, said tier of pockets being formed of an integral section of scored and foldel sheet material.

1,685,126. DRAFT-KEY RETAINER. CHARLES H. EVANS, Jersey City, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 15, 1926. Serial No. 135,587. 8 Claims. (Cl. 85—5.)



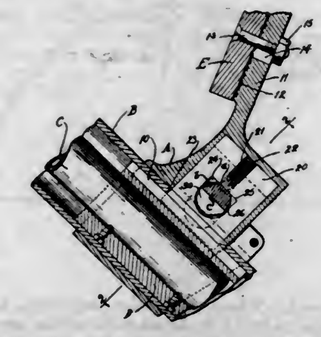
1. A draft key retainer comprising a flanged tubular member supported by its flange in the opening in a draft key, and a yieldable fastening element insertible and expansible within said tubular member, and having means on each end thereof for retaining the same in interlocked relation with said tubular member.

1,685,127. RUBBER-RING-CUTTING MACHINE. GUY L. HAMMOND, LESTER H. MESSINGER, Jr., and WILLIAM NICHOLAS, Bridgeport, Conn., assignors to The Black Rock Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 30, 1927. Serial No. 179,502. 22 Claims. (Cl. 164—69.)



1. In a machine of the character described, a rotary tube-supporting shaft including a supporting surface, a rotary cutter-knife so constructed and arranged as to be moved into cutting relation with a tube on said shaft at a point outwardly removed from the end of said supporting surface, a cam shaft including cam means imparting oscillatory movement to said cutter-knife, adjustment means for varying the extent of movement of said cutter-knife and its relation to said cam, and work feeding means for feeding said tube to be cut.

1,685,128. AUTOMOBILE LOCK. ORVILLE S. HERSHEY, Chicago, Ill., assignor to Hershey Manufacturing Company, Chicago, Ill., a Corporation of Colorado. Original application filed Apr. 13, 1922, Serial No. 552,357. Divided and this application filed Dec. 18, 1926. Serial No. 155,619. 1 Claim. (Cl. 70—127.)



In combination, a lock having a housing in which is contained a bolt and operating means therefor, an electrical switch including a pair of fixed contacts, a movable switch element adapted to make or break an electrical connection between said contacts, a connection between the bolt operating means and the movable switch element such that the latter is actuated in response to movements of the former, and spring means working through the movable switch element providing a friction detent for the bolt operating means, substantially as described.

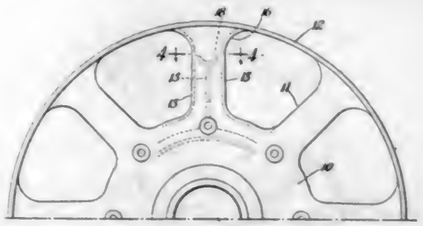
1,685,129. SAXOPHONE. AVERY J. HILTON, Gloucester, Mass. Filed Dec. 7, 1925. Serial No. 73,707. 14 Claims. (Cl. 84—385.)



1. In a saxophone, a valve controlling a higher register tone, an individually operable valve controlling a tone of a

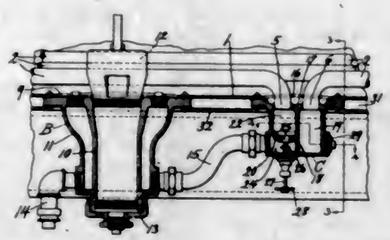
lower register, a unitary set of resonant valves adapted to render the lower tone resonant when said tone ceases to be resonant upon closure of the second named valve, and means for causing simultaneously the opening of the higher register tone valve and the resonant tone valves.

1,685,130. VEHICLE WHEEL STRUCTURE. JOHN W. HOLT, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 5, 1926. Serial No. 139,626. 6 Claims. (Cl. 301—65.)



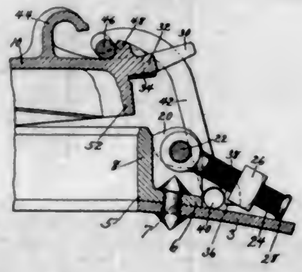
6. In a vehicle wheel of the cast metal type, a radial spoke member having a U-shaped cross section opening to the inner side of the wheel, a centrally disposed rib member extending along the spoke between the flanges of the U-shaped structure, said rib member being bifurcated at its outer end and the bifurcations being joined to the flanges, said flanges and the outer web of the spoke structure having a flared formation at the point of juncture with the felloe portion of the wheel, and a web member forming a flared closing wall for the inner side of the flared end section of the spoke member.

1,685,131. TANK-CAR COIL HEATER. CHARLES I. HUMMER, Newark, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 6, 1927. Serial No. 189,319. 2 Claims. (Cl. 257—207.)



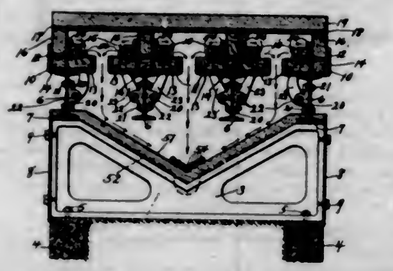
2. In a car tank, series of continuous heating coils therein each having an inlet and an outlet, a distributor secured to the tank and provided with a steam outlet common to each series of coils, a valve controlled chamber to which the inlet end of each series of coils is connected, and a common steam inlet chamber for said valve controlled chambers.

1,685,132. CAR-TANK-DOME CLOSURE. ROBERT W. JOY, Brooklyn, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 12, 1925. Serial No. 56,004. 14 Claims. (Cl. 220—55.)



1. In combination, a closure, means for securing the same in closed position on a receptacle, and restraining means for limiting the rise of the closure from the receptacle, releasable only when the cover is actually partly raised.

1,685,133. ELECTRIC HEATER FOR LONG BARS. WILLIAM S. JOHNSON and JOHN W. SHEFFER, Berwick, Pa., assignors to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 15, 1922. Serial No. 561,081. 20 Claims. (Cl. 219—11.)

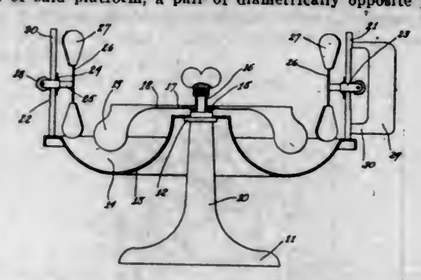


1. In an electric heater having a heating chamber for long bars, a heating circuit adapted to be completed by a bar in said chamber heated from an outside source and means in said chamber for maintaining the bar in a heated condition upon removal of the bar from the circuit.

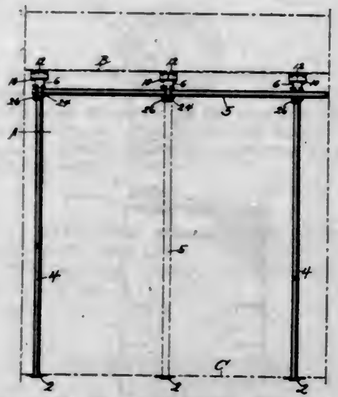
19. In a heater, a heating chamber for long bars having a plurality of horizontally alined bar supporting sections, and a common drawing section for said bar supporting sections, said drawing section being so formed as to direct the bars to a common discharge.

1,685,134. WIND VANE. FRANK LUIPERSBEK, Boundbrook, N. J. Filed Mar. 5, 1927. Serial No. 172,984. 3 Claims. (Cl. 46—14.)

1. In a wind vane, a pedestal, a platform having an annular channel therein rotatable on said pedestal, a horizontal propeller rotatable on said pedestal in the channel of said platform, a pair of diametrically opposite positioned vertical posts mounted on said platform, and a pair of vertical fans vertically adjustably mounted on said posts.

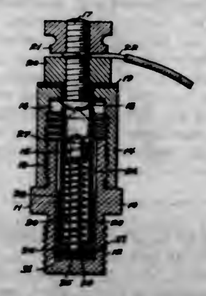


1,685,135. STANCHION BRACKET. ALVARO MENDEZ, East Orange, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 8, 1927. Serial No. 218,208. 9 Claims. (Cl. 105—355.)



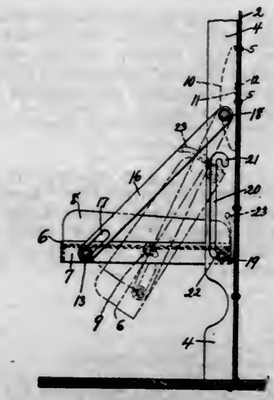
1. A device of the kind described comprising a casing receiving the upper end of a stanchion, guides depending from the casing, and means formed integral with one of said guides for supporting an adjacent stanchion.

1,685,136. THERMOSTATICALLY-CONTROLLED CIRCUIT CLOSER. HERBERT D. MONTGOMERY, New York, N. Y. Filed Jan. 19, 1925. Serial No. 3,212. 9 Claims. (Cl. 200—142.)



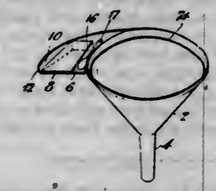
1. A thermostat including a metal shell having one end threaded and adapted to be positioned in a support, and having a bore therein opening through the other end, a readily replaceable insert in the form of a cylindrical open end cartridge loosely positioned in said bore and including a base member engaging the bottom of the bore, a circuit closing plunger housed within the outlines of the cartridge secured at one end by fusible solder to said base member, a spring bearing on said base member and plunger to project the same when released by the melting of the solder, a cap telescoping the shell in screw-threaded engagement therewith for closing the open end of the bore and for housing the inserted cartridge in a dust proof casing and a binding post carried by and insulated from the cap for receiving an external conductor, said post having an inner end facing the open end of the cartridge and disposed in the path of movement of the free plunger and adapted to be engaged thereby when projected by the spring.

1,685,137. FOLDABLE SEAT. DANIEL RANDALL NICHOLS, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 10, 1927. Serial No. 167,239. 3 Claims. (Cl. 155—85.)



3. In a seat, spaced uprights each having a guideway formed therein terminating in upper and lower recesses, pivots secured to the rear of the seat and working in said guideway and adapted to rest in the recesses to support the seat in folded or elevated position respectively, and hangers secured to the seat and to the uprights above the guideways, said seat when in elevated position normally urging the pivots to seating position in the lower recesses.

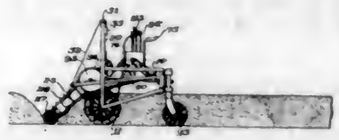
1,685,138. PAPER CONTAINER. JAMES G. NORTON, Leonia, N. J. Filed July 1, 1921. Serial No. 481,781. 17 Claims. (Cl. 229—1.5.)



17. In a container constructed to be discarded after a single use without substantial economic loss, an inner section composed of thin, flexible paper and formed in the shape of a cone, and an outer section composed of relatively thick, stiff paper and comprising a main body portion shaped to conform to the inner section and a tubular, handle portion opening into the body portion and extending downwardly from the reduced lower end thereof, said han-

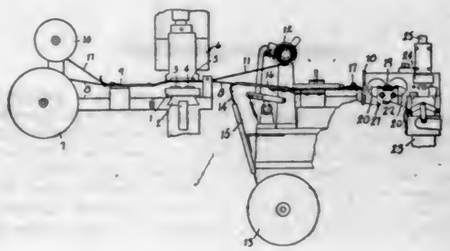
die portion being constructed so as to enable a number of said outer sections to be nested one within another, and said inner section being constructed to fit into the body portion of the outer section and to close the lower end of said outer section.

1,685,139. SAND CUTTING, SCREENING, AND PILING MACHINE. ELMER A. RICH, Jr., Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y., a Corporation of Ohio. Filed Aug. 29, 1923. Serial No. 659,896. 14 Claims. (Cl. 262—2.)



1. A machine of the class specified having a continuous material conveying member and a screening device, the conveying member being movably mounted to permit it to convey material upwardly and discharge it upon the screen or to convey it upwardly and discharge it in a direction away from the screen.

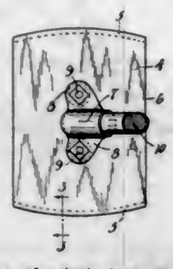
1,685,140. PRINTED LABEL AND PROCESS OR METHOD OF MANUFACTURING THE SAME. ARTHUR ROSENTHAL and MARTIN ROSENTHAL, Grand Rapids, Mich., assignors to Rose Patch and Label Co., Grand Rapids, Mich. Filed Sept. 25, 1926. Serial No. 137,705. 4 Claims. (Cl. 270—1.)



1. The method of making a printed label consisting in printing the same on double plate intaglio press with a blotter strip between the counter and the label strip, advancing the strip a label length and the blotter strip at a different rate for the second impression to complete the label, delivering the label strip to a label cutter in a continuous strip, applying an overlay strip of glazed tissue paper beneath the printed label strip, clamping the same to the label strip and cutting and then folding, and creasing the label and strip under heat, as specified.

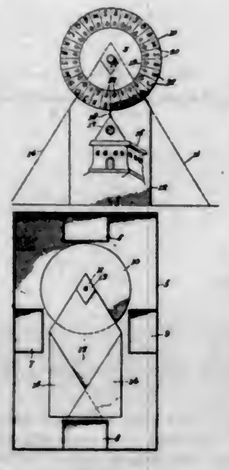
1,685,141. BRUSH AX. ALBERT N. SCHAEFER, Minneapolis, Minn. Filed Aug. 22, 1924. Serial No. 733,634. 2 Claims. (Cl. 30—11.)

1. An ax comprising a relatively heavy generally rectangular head provided with a sharpened cutting blade at one edge thereof, an elongated handle secured to said head at an oblique angle thereto and having its longitudinal center line substantially disposed in a plane which extends perpendicularly to said head and substantially parallel with the edge of said blade, and connection between said handle and said head being approximately at the center of gravity of said head and the weight of said



head being so balanced relatively to the handle that the device may be swung in the manner of a golf club to cut brush or saplings close to the ground.

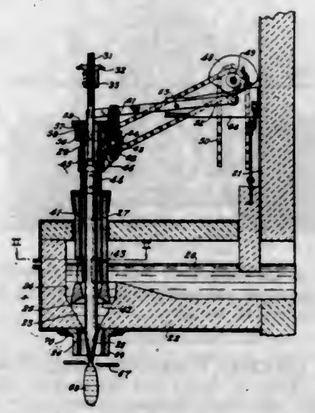
1,685,142. GAME. JOHN W. SMITH, Dover Village, Ohio. Filed Oct. 22, 1926. Serial No. 143,357. 1 Claim. (Cl. 273—135.)



Game apparatus for use with cards having suit and individual designations thereon, comprising a box having compartments projecting inwardly from its opposite side and end walls adapted to receive stacks of the cards therein, and a spinning device having a foldable stand with a fixed index adapted to fit in said box between the compartments and provided with a pivoted disc having card designations thereon for cooperation with the index and projecting from one end of the stand, the height of the stand and disc being slightly less than the distance between the compartments in the opposite ends of the box and the width of the stand when folded and the width of the disc between the side compartments being slightly less than the distance between the side compartments for nesting the folded spinning device in the box between the compartments.

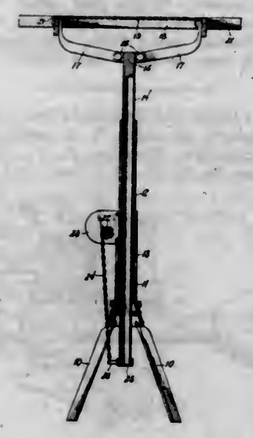
1,685,143. APPARATUS FOR DELIVERING CHARGES OF MOLTEN GLASS. LEONARD D. SOUBIER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 4, 1924. Serial No. 684,296. 26 Claims. (Cl. 49—55.)

1. In a glass feeder, the combination of a container for molten glass having an outlet opening in its bottom, a plug or rod of refractory material projecting downward through the glass over the outlet, the lower end of said plug being tapered and protruding through the outlet, and means providing a heated chamber enclosing said protruding end.



8. In a glass feeder, the combination of a container for molten glass having an outlet opening in its bottom, a core extending downward in the glass over the outlet concentric therewith, a regulator, and means to move the regulator spirally about the axis of the core toward and from the outlet.

1,685,144. ELEVATOR AND SUPPORT FOR WALL BOARDS AND THE LIKE. AIN AUSTIN, De Kalb, Ill. Filed Apr. 14, 1927. Serial No. 183,816. 3 Claims. (Cl. 304—4.)



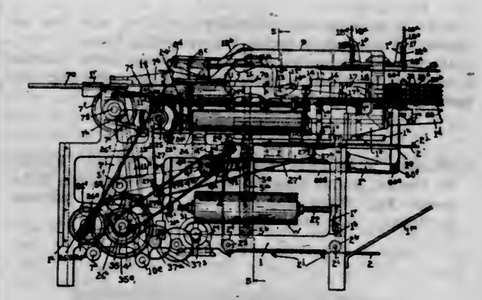
1. A device for elevating wall boards and the like to ceilings and supporting them in place to be nailed, comprising, in combination, a base, a tubular standard telescopically mounted on the base, a plug in the top of the tubular standard, a plurality of outwardly extending brackets secured to the plug, a horizontal and substantially oblong open work frame carried by said brackets, and mechanical means to raise said standard.

1,685,145. HOOK. HERMAN BARTENBACH, Pittsburgh, Pa., and ALBERT E. FREEMAN, Andover, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 16, 1926. Serial No. 135,928. 3 Claims. (Cl. 24—230.5.)



1. A hook having two oppositely curved sections comprising a substantially S-shaped body portion, a substantially circular button at one end thereof, and a second substantially circular shaped button at the other end thereof, said buttons lying in a plane substantially at right angles to each other on opposite sides of an axis passing through the hook to the midpoint of each curved section.

1,685,146. BREAD-WRAPPING MACHINE. HENRY F. BECHMAN, Battle Creek, Mich., assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich. Filed Feb. 6, 1923. Serial No. 617,209. 49 Claims. (Cl. 93—2.)

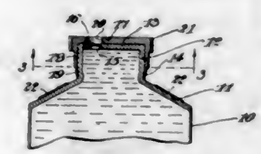


1. In mechanism of the character specified, loaf clamps adapted to engage opposite sides of the loaf when the latter is raised; a reciprocating slide carrying one of the said clamps; an oscillating lever on said slide carrying other of said clamps; a cam for actuating said oscillating lever at the proper time during its reciprocation by the slide; and an oscillating lever mounted on said slide and operated by the same cam, said oscillating lever carrying the final top end folding blades, substantially as described.

1,685,147. CONTAINER. OSCAR B. CASE, Williamsport, Pa. Filed Aug. 17, 1926. Serial No. 129,743. 2 Claims. (Cl. 221—60.)

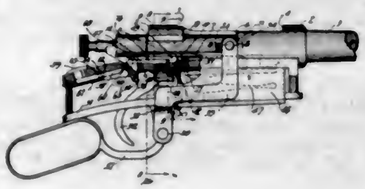
1. In a container, in combination, a collapsible metallic receptacle; a threadless neck to said receptacle having an exterior annular recess; a closure extending across said neck opening and having a recess in a portion thereof causing a reduction of the thickness of the closure at the recess portion; a cover for the device comprising an

upper cover portion having an opening therein capable of revoluble positioning in alinement with the closure recess, and having a downwardly extended annular flange positioned around a portion of the exterior face of the



neck and revoluble thereon, and an inwardly extended annular portion of the cover fitted within the neck recess and retaining the closure from vertical removal but allowing of its revolution.

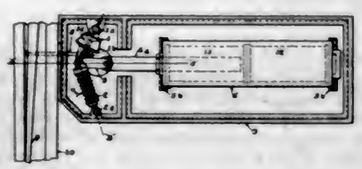
1,685,148. FIREARM. HERBERT S. CONANT, Troy, N. Y. Filed Apr. 18, 1925. Serial No. 24,254. 21 Claims. (Cl. 42—16.)



4. In a firearm, the combination with a sear and an ejector, of a common spring for operating both.

16. In a bolt action firearm, a finger lever having a slidably mounted pivotal bearing for effecting the opening and closing of the breech mechanism.

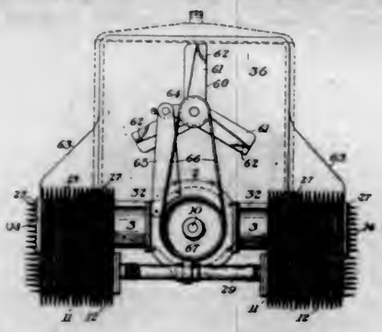
1,685,149. ELECTRIC SWITCHING DEVICE. MILTON W. COOKE, Mount Lebanon, and OSCAR WILLIAMS, Pittsburgh, Pa. Filed May 23, 1927. Serial No. 193,495. 6 Claims. (Cl. 246—231.)



1. In an electrically operated switch throwing device comprising a solenoid and a magnetic plunger connected to a toggle joint employing a common articulation.

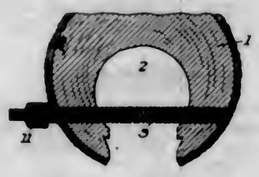
1,685,150. AIR COMPRESSOR. JAMES A. DAVEY, Sound Beach, Conn., and PAUL H. DAVEY and CHARLES L. GAUGLER, Kent, Ohio; said Gaugler assignor of one-third of his entire interest to The Davey Tree Expert Company, Kent, Ohio, a Corporation of Ohio. Filed Mar. 31, 1924. Serial No. 703,098. 10 Claims. (Cl. 230—211.)

1. In combination with an automotive vehicle having an engine and a radiator, an air compressor mounted adjacent the radiator, means for driving the compressor from the engine of the vehicle, a fan adapted to deliver



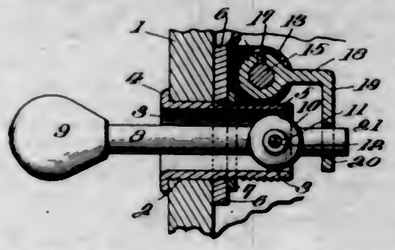
cooling air to the compressor and to the radiator, and a casing surrounding the radiator and adapted to direct the air delivered by the fan.

1,685,151. APPLYING THREADED BRACING RODS TO TREES. PAUL H. DAVEY and WILLIAM R. WILLIAMS, Kent, Ohio; said Davey assignor of one-fourth to James A. G. Davey, Sound Beach, Conn., and said Williams assignor to The Davey Tree Expert Company, Kent, Ohio, a Corporation of Ohio. Filed Nov. 21, 1925. Serial No. 70,499. 1 Claim. (Cl. 47—8.)



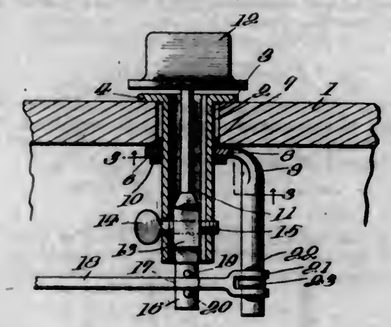
The method of treating a tree cavity consisting in forming uniform openings in the side edges of the cavity, threading said openings, and connecting said threaded openings by bracing means filling said openings and terminating at or near the outer ends thereof.

1,685,152. FLUSH-TANK-OPERATING LEVER. EDWARD L. DELANY, Brooklyn, N. Y., assignor to Delaney Realty Corporation, Brooklyn, N. Y. Filed Jan. 18, 1926. Serial No. 82,111. 7 Claims. (Cl. 4—67.)



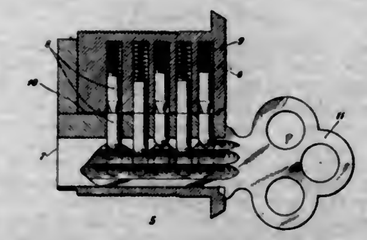
1. A flush valve operating mechanism comprising a tubular member, means for fastening the same to the flush tank, a flush valve operating lever pivotally supported by the tubular member, an operating handle passing through the tubular member and pivotally mounted to have an up and down movement therein, and an arm carried by the flush valve operating lever and having an opening therein through which the inner end of the operating handle passes.

1,685,153. FLUSH-TANK-OPERATING LEVER. EDWARD L. DELANY, Brooklyn, N. Y. Filed Mar. 9, 1926. Serial No. 93,400. 9 Claims. (Cl. 4—67.)



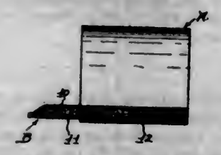
1. A flush tank operating mechanism comprising a tubular member, means for securing the same to the flush tank, a flush valve operating lever extending through the tubular member and pivotally mounted therein, an arm supported by the tubular member and extending parallel therewith, a link loosely mounted on the arm, a flush valve carrying lever pivotally mounted to the upper end of the link and having a loose connection with the flush valve operating lever.

1,685,154. LOCK. WILLIAM H. EDWARDS, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 17, 1927. Serial No. 169,001. 2 Claims. (Cl. 70—47.)



1. A lock comprising a casing, a movable barrel therein, a plurality of chambers in the casing, a corresponding set of chambers in the barrel adapted to be brought into alinement therewith, a member movable in each of the alined chambers comprising a pin and a driver, certain of the drivers being beveled at their meeting points with their associated pins, and other of said drivers being unbeveled at such points.

1,685,155. ARCH SUPPORT. HARRY DENNIS EMBOTT, St. Paul, Minn. Filed Aug. 28, 1922. Serial No. 584,650. 2 Claims. (Cl. 36—71.)

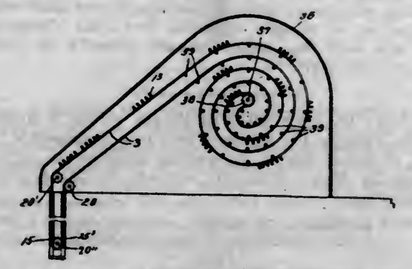


1. An article of the class described, comprising an elastic foot encircling band, an elongated, flexible case greater in length than the width of said band, said case being secured to the band inside and transversely thereof with one end within the confines of said band, said case having an opening at said end, and padding material applicable in desired quantities to the case through said opening, said padding being kept against accidental removal from the case by the action of the band in holding said case against the foot.

1,685,156. ELECTROCHEMICAL PROCESS FOR SEPARATING IRON FROM ALUMINUM. FRANCESCO GIORDANI, Naples, Italy, assignor to Pomilio Brothers Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 25, 1922. Serial No. 584,387. 1 Claim. (Cl. 204—9.)

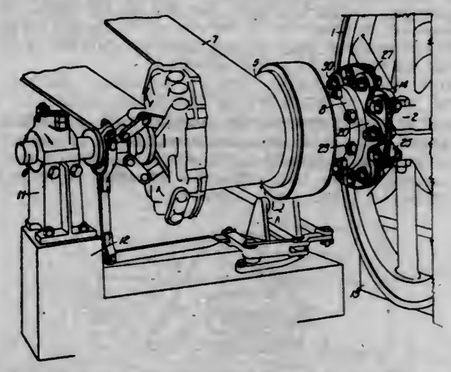
In a process for purifying solutions consisting mainly of aluminum salts, positioning therein an electrode of aluminum and another adapted to act as positive electrode for a metal to be eliminated, and connecting them in circuit, substantially as set forth.

1,685,157. ADVERTISING DEVICE. EDWARD FORD GOELLER, New York, N. Y. Filed Apr. 5, 1926. Serial No. 99,739. 6 Claims. (Cl. 40—28.)



1. An apparatus for displaying an advertising sign over the wall of a building, which comprises a flexible sheet carrying lamps which are arranged to present an advertisement, a take-up device to which the sheet is connected, the sheet being adapted to be withdrawn from the take-up device and supported over the wall of the building to display the advertisement and the take-up device being adapted to retract and fold the sheet upon itself to conceal the same, and means for spacing the folds of the sheet to prevent breakage of the lamps.

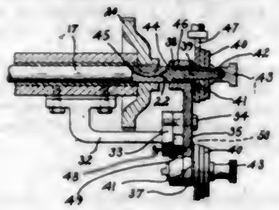
1,685,158. COUPLING. SAMUEL B. GOLD, Kansas City, Mo., assignor to Weber Engine Company, Kansas City, Mo., a Corporation of Iowa. Filed Nov. 21, 1927. Serial No. 234,696. 3 Claims. (Cl. 64—96.)



1. In a shaft coupling, complementary coupling members connected with respective shaft members, each coupling member having peripheral ears in staggered relation

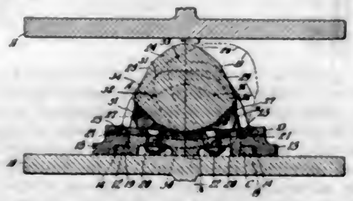
with similar ears on its complementary member, flexible links attached to selected adjacent ears of each coupling member and to intervening ears of the complementary member.

1,685,159. LENS-GRINDING MACHINE. WILLIAM A. GUNNING, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 23, 1925. Serial No. 25,307. 9 Claims. (Cl. 51—101.)



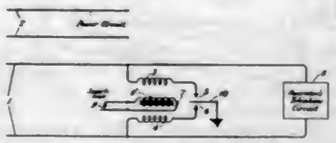
1. In a template controlled lens edging machine, the combination with a rotatable lens holding shaft, of a plurality of formers mounted eccentric to the shaft and arranged to be brought selectively into axial alignment with said shaft, and means engaged therewith for rotation with the shaft.

1,685,160. ANTIFRICTION BEARING. STACY B. HASKELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Sept. 12, 1923. Serial No. 662,215. 8 Claims. (Cl. 308—224.)



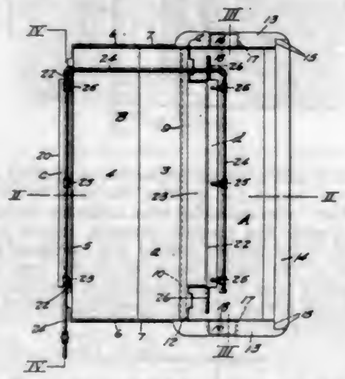
8. In a side bearing for railroad cars, an open top casing, a bearing plate in said casing inclined from the middle of the casing upwardly towards the ends of the casing, an antifriction roller capable of rolling movement on said bearing plate, said roller being in cross section wide at the bottom and narrow at the top, top and bottom bearing surface of said roller being so formed that the distance between the top and bottom bearing points of the roller on the load line as the roller assumes different positions in its rolling movement toward the end of the casing is diminished in proportion to the rise of the bearing plate, and interengaging parts on said roller and said casing to guide the roller in its rolling movement.

1,685,161. MULTIWINDING DISCHARGE BALANCE COIL. RICHARD K. HONAMAN, Bloomfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 27, 1926. Serial No. 91,214. 2 Claims. (Cl. 179—78.)



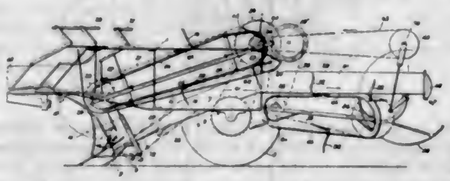
1. A line circuit exposed to inductive interference, a circuit to be protected associated therewith, and a protective device comprising a multiwinding transformer having two equal turn windings differentially arranged on a common core, each of said windings connecting a protector gap to different sides of said line circuit, and an auxiliary winding mounted on said common core and having a greater number of turns than either of said equal turn windings, and a spark gap across the terminals of said third winding.

1,685,162. TINNING POT. PERCY E. HUNTER, Pittsburgh, Pa., assignor of one-half to Bernard West, Weirton, W. Va. Filed June 24, 1927. Serial No. 201,115. 7 Claims. (Cl. 266—39.)



1. A tinning pot consisting of a continuous body portion forming front, bottom and rear walls, a longitudinal partition therein, and end plates having coating metal supply pockets opening to the interior.

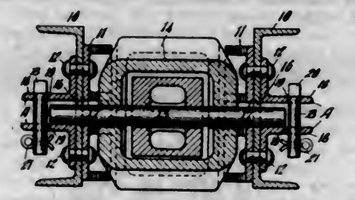
1,685,163. COMBINDED RAKE AND BINDING APPARATUS. MARI JEANSON, Etrelles, France. Filed July 31, 1925, Serial No. 47,358, and in France July 31, 1924. 2 Claims. (Cl. 56—343.)



1. A combined rake and binding apparatus comprising a main frame carrying wheels, central teeth composed of various members pivoted together, a pivot shaft for the teeth which forms part of a frame pivoting on the machine frame, the axis of pivotation being situated forwardly of the points of the said teeth, lateral teeth of different lengths forming a collecting element situated within the machine frame, a pivot shaft for the said teeth forming part of a frame pivoting on the machine frame and situated forwardly of the said teeth, chains connecting each group of teeth with the machine frame, and means for raising the said pivoting frames.

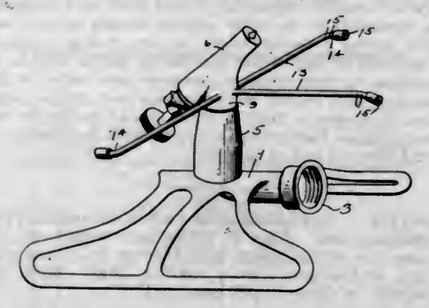
1,685,164. DRAFT-RIGGING-KEY RETAINER. GEORGE A. JOHNSON, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Sept. 19, 1925. Serial No. 57,267. 1 Claim. (Cl. 213—50.)

In a railway draft rigging, the combination with center sills having key-receiving openings and a key working in said openings, said key having an end thereof extending through the slot of and projecting beyond the corresponding sill; of angle members secured to the last named sill, said angle members having horizontal flanges disposed respectively at the top and bottom of the opening of said



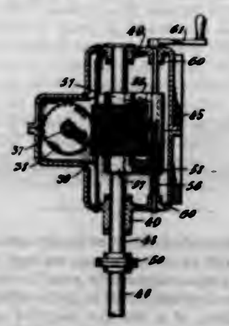
sill; and a detachable key extending through said flanges, said key co-operating with the corresponding end of said first named key to retain the latter in operative position.

1,685,165. SPRINKLER. JOHN H. KEYS, Dayton, Ohio, assignor to The Dayton Irrigation Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 20, 1922. Serial No. 537,935. 3 Claims. (Cl. 299—69.)



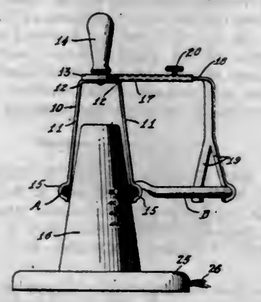
3. In a rotary sprinkler, an upwardly inclined nozzle mounted for rotation about a vertical axis intersecting the inclined nozzle at a mid-length point beyond which the nozzle extends in opposite directions, a plurality of radially disposed propulsion jet arms operatively connected with the nozzle for imparting unison rotary motion thereto, means for regulating the discharge from said inclined nozzle, and means for supplying water simultaneously to the inclined nozzle and to the jet arms.

1,685,166. DIFFERENTIAL TIMING DEVICE. RICHARD LA FRANCE, Toledo, Ohio. Filed Apr. 14, 1926. Serial No. 101,922. 7 Claims. (Cl. 74—7.)



1. The combination of a helical driving gear and helical driven gear running in mesh with each other, a yoke embracing the ends of the driving gear, and manually rotatable means for effecting unitary axial movement of the yoke and driving gear to advance or retard the normal point of contact of the driven gear circumferentially from the corresponding point of the driving gear.

1,685,167. WORKHOLDER. GEORGE L. LJUNGLOF, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Sept. 26, 1923. Serial No. 665,032. 3 Claims. (Cl. 81—3.5.)



1. A device of the character described comprising a base, a conical rim stretching plug rising from the base, a lens rim holder associated with said base and having a handle, a supporting member on the handle, depending arms extending from the supporting member, said arms having rim engaging portions, said supporting member being provided with a lateral extension, and an arm depending from the extension having rim engaging portions.

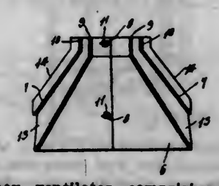
1,685,168. PREPARATION OF FUR FOR SHRINKING AND FELTING. JOHN H. MARTIN, Central Park, N. Y. Filed Apr. 28, 1926. Serial No. 105,314. 4 Claims. (Cl. 8—21.)

4. The improvement in the art of preparing fur for shrinking and felting, which consists in subjecting the fur to the action of an organic acid with an admixture of glycolic acid.

1,685,169. PREPARATION OF FUR FOR SHRINKING AND FELTING. JOHN H. MARTIN, Central Park, N. Y. Filed Apr. 28, 1926. Serial No. 105,315. 2 Claims. (Cl. 8—21.)

2. The improvement in the art of preparing fur for shrinking and felting, which consists in subjecting the fur to the action of an inorganic acid with an admixture of glycolic acid.

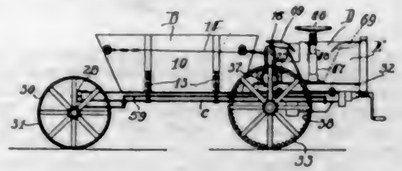
1,685,170. VENTILATOR FOR CHIMNEYS. ALEXANDER MCDONALD, Pittsburgh, and WILLIAM O. SMITH, Wilkinsburg, Pa., assignors of seventy one-hundredths to John C. Young, Pittsburgh, Pa., and thirty one-hundredths to said Smith. Filed May 1, 1926. Serial No. 106,162. 2 Claims. (Cl. 98—66.)



1. A chimney ventilator comprising correspondingly shaped inner and outer truncated pyramidal members or frustums spaced from each other, the sides of the members

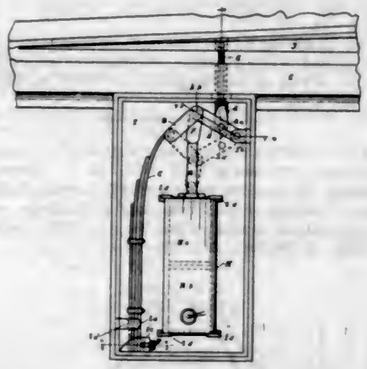
being arranged in upwardly converging planes to taper the space between them and increase the velocity of the air currents passing upwardly through the said space, said members having spaced vertical sections formed as extensions of the sides of the said members and arranged opposite each other to form a vertical passage to change the direction of the air currents from inclined to vertical to stimulate the draft of the chimney and to prevent the said air currents from sweeping across the top of the chimney and choking the same, said inner and outer frustums being composed of angular sections having overlapped portions located at the centers of the sides of the frustums, and vanes arranged exteriorly of the outer frustum and extending along the overlapped portions of the sections and provided at the top with vertical portions located at the vertical section of the outer frustum, said vanes being adapted to cause currents of air to move upwardly over the outer frustum and to have their direction changed from inclined to vertical at the top of the chimney ventilator.

1,685,171. SEPARABLE TRACTOR DUMP WAGON. WALTER J. MCVICKER and ARTHUR R. SANDT, Minneapolis, Minn., assignors to Enterprise Machinery Company, Minneapolis, Minn. Filed May 3, 1920. Serial No. 378,423. 8 Claims. (Cl. 280—91.)



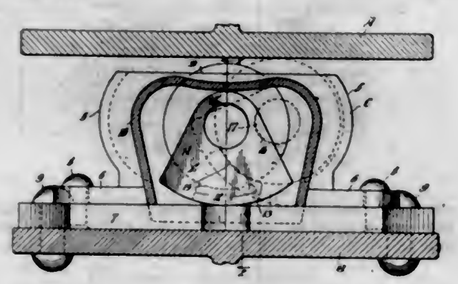
1. A separable tractor wagon, including a body, a detachable tractor element secured to one end of said wagon, means for steering said wagon in either direction and means for steering said wagon with the pair of wheels at either end thereof, with each pair independent of each other or with all of the wheels collectively.

1,685,172. SWITCH-THROWING DEVICE. JOHN L. MILTON, Louisville, Ky., assignor to Cheatham Electric Switching Device Company. Filed Apr. 11, 1927. Serial No. 182,879. 35 Claims. (Cl. 246—318.)



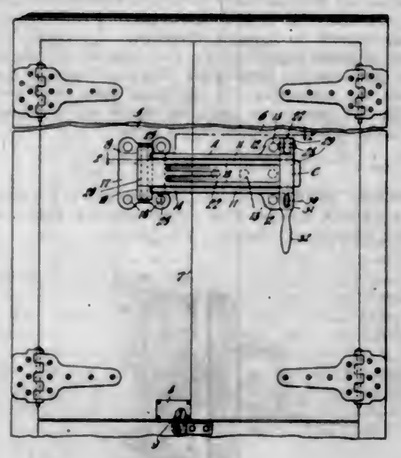
1. A toggle joint provided with a pair of levers having one common articulation and independent bearings at their outer ends, one of said bearings being fulcrumed to the free end of a spring member which is substantially rigid at the other end.

1,685,173. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed July 11, 1924. Serial No. 725,331. 1 Claim. (Cl. 308—226.)



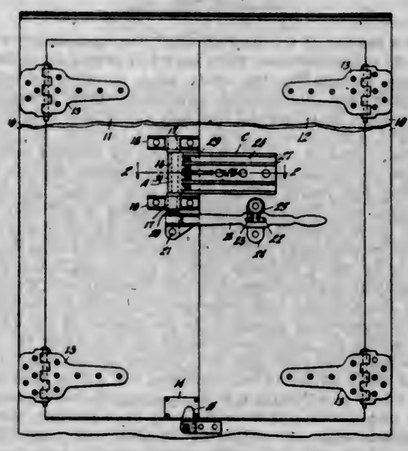
In an anti-friction bearing, the combination with relatively movable bearing members presenting opposed extended bearing surfaces; a rocker bearing on one of said surfaces, said rocker having a supporting bearing seat; a roller normally supported on said seat, said roller being engageable by the other opposed bearing surface, said roller having trunnion means thereon loosely journaled in bearings on said rocker and having lateral play in all directions in said bearings, whereby said roller is displaceable with respect to the bearing seat of the rocker when the rocker is tilted to either side of its normal centered position and the roller is supported by rotation on said trunnions free of said seat.

1,685,174. REFRIGERATOR-CAR-DOOR-OPERATING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 23, 1925. Serial No. 64,294. 2 Claims. (Cl. 268—72.)



1. In a car door fastener, the combination with a pair of doors mounted to swing about vertical axes and having their free edges adapted to abut in closed position; means for fastening one of said doors when the same is in closed position; of a bracket mounted upon said door adjacent the forward edges thereof, within the top and bottom edges thereof, said bracket being provided with a pair of vertically spaced upstanding ears carrying a pivot pin; of an abutment member mounted adjacent the forward edge of the other door and projecting beyond said forward edge, said abutment member being channel-shaped in form and provided with a curved nose portion at its outer extremity, the inner extremity of said abutment member being widened and having means thereon to pivotally support a locking lever at the upper end, said widened portion at its lower end having an eyelet adapted to engage an opening in said locking member; and a lever fitting within the channel in said abutment member, the end of said lever adjacent said locking member being adapted to be engaged by the latter to lock the same in position, the opposite end of said lever member being pivotally mounted upon the pivot pin on the first mentioned door, said lever being adapted to engage the outer side of the nose of said abutment member and said lever being provided with a reversely turned actuating portion adapted to engage the inner side of the nose of said abutment member, whereby swinging movement of said lever effects movement of said other door in opening and closing directions.

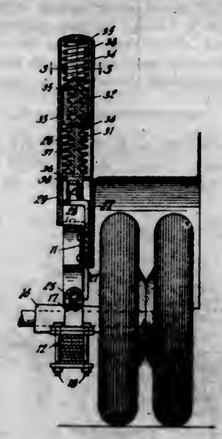
1,685,175. DOOR-OPERATING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 16, 1926. Serial No. 81,648. 4 Claims. (Cl. 268—72.)



1. In a door operating mechanism, the combination with a relatively fixed member and a swinging door member; of a rotatable shaft including an elongated crank portion provided with offset cylindrical journal sections at opposite ends thereof, and one of said ends having a flattened extension thereon; means on said fixed member in which the journal sections of said shaft are rotatably mounted; a handle mounted on the flattened extension of said journal section, said handle being arranged to be secured to said door member when the same is closed; and a keeper bracket secured to said door member, said bracket having means providing spaced abutments coextensive with said crank center and adapted to receive the crank member between said abutments.

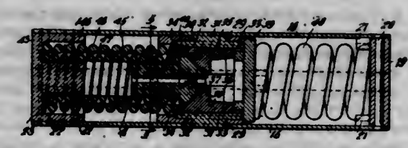
1,685,176. SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 30, 1926. Serial No. 132,484. 10 Claims. (Cl. 188—129.)

1. In a friction shock absorbing mechanism, the combination with relatively movable members; of a shell connected to one of said members, and a plunger connected to the other member and extending into said shell; bearing means in said shell against which said plunger bears; yieldable means adapted to provide resistance at opposite sides of said bearing means; and means for



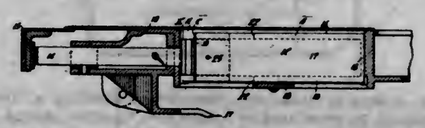
simultaneously flexing said yieldable means upon movement of said plunger in opposite directions to afford resistance to the travel thereof.

1,685,177. BUFFING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 31, 1927. Serial No. 179,864. 9 Claims. (Cl. 213—222.)



9. In a buffing mechanism, the combination with a rectangular housing made up of opposed channel members, the webs of said channels defining opposed walls of the housing and the flanges of said channels defining the remaining walls of said housing and being disposed in spaced relation to provide guides between their free edges; of spacing means fixed to the channels for securing the parts together, one of said spacing means being in the form of a friction shell; a buffer head provided with guide arms slidably disposed in the guides provided by the flanges of the channel members; and means for resisting movement of said buffer head inwardly of said housing, including friction means cooperating with the shell.

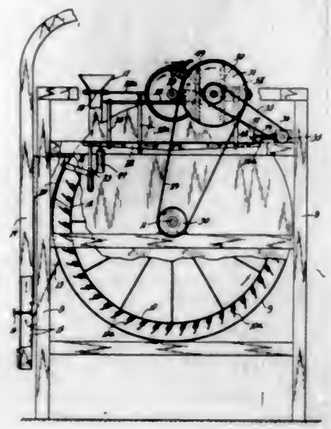
1,685,178. BUFFING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,888. 5 Claims. (Cl. 213—222.)



1. In a buffing mechanism of the character described, comprising an integral housing open at one end; a main spring means arranged in said housing; a shell mounted

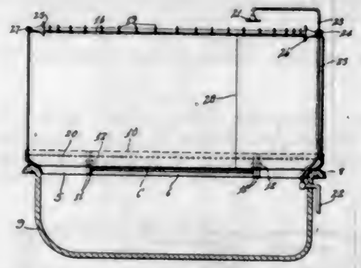
in said housing and movable longitudinally with respect thereto; removable members cooperating with the walls of said housing to provide guide means for said shell; a wedge; friction shoes co-operating with said wedge; liners for said shell having friction surfaces co-operating with said friction shoes; and means for detachably connecting said liners to said shell, said means serving to maintain said removable members in operative position.

1,685,179. MACHINE FOR TREATING GRAIN. WALLACE A. ROGERS, Anoka, Minn. Filed May 26, 1926. Serial No. 111,750. 9 Claims. (Cl. 83—30.)



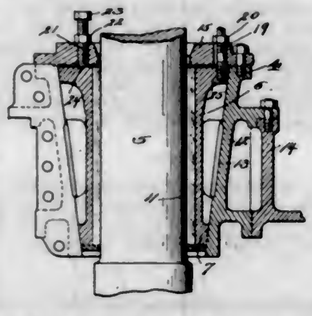
1. A machine for the treatment of grain and the like, having in combination a treating chamber, an intake passage and a discharge passage communicating therewith, gates adapted to control the flow of material through said passages, actuating mechanism adapted to alternately control the movements of said gates, means for connecting said actuating mechanism to a source of power and timing mechanism comprising a rectilinearly movable retaining member adapted to normally engage said means and means for reciprocating said retaining member whereby said first mentioned means will be periodically released.

1,685,180. ATTACHABLE SHOWER. JOHN C. SHELLEA, Maywood, Ill., assignor to John F. Saye, Maywood, Ill. Filed Aug. 19, 1927. Serial No. 214,149. 4 Claims. (Cl. 4—149.)



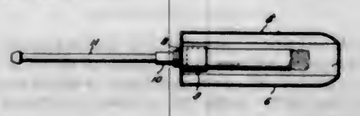
1. A device of the type described comprising a frame arranged to be secured to a bath tub, uprights carried by said frame, a tube similar in general curvature to said frame, a downwardly extending spraying member, communications between said sprayng member and said tube, a curtain adjustably carried by said tube, an inwardly extending spraying member carried by and in communication with said tube, and means integral with said frame for receiving a portion of said curtain for guiding water which engages with said curtain into the tub.

1,685,181. BEARING FOR HYDRAULIC-TURBINE SHAFTS. HARALD STYERTSEN, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a Corporation of Pennsylvania. Filed Sept. 2, 1924. Serial No. 735,448. 1 Claim. (Cl. 308—69.)



In a bearing of the class specified, the combination with a shaft and a container fitted over and having an inclined surface surrounding the shaft, of a plurality of longitudinally and horizontally adjustable shoes interposed between the container and the shaft and formed with inner straight surfaces and outer inclined surfaces having a continual contact and sliding fit with the inclined surface of the container, the shoes having bearing devices extending full length of the inner side thereof and surrounding and directly engaging the shaft, a sectional annular cover mounted over and close to one set of ends of the shoes, said cover formed with radial pads and each pad having an outer centrally located radial slot and a pair of openings in transverse alinement inwardly at a distance from the slot, the pads being over the ends of the shoes and corresponding in number to the number of the latter, and means for individually adjusting and fixing the adjustment of the shoes and their bearing devices, consisting of an outer adjusting bolt engaging the slot of each pad and a pair of adjusting screws engaging the said openings at a distance inward from the bolt, the adjusting bolt of each pad being secured to the adjacent extremity of its shoe and the adjusting screws having their inner ends contacting with but unsecured to the end of the adjacent shoe, the bolts and screws of all the pads being operable to modify the adjustment of the shoes without releasing the cover, the adjusting bolts supporting the weight of the shoe located at such distance outwardly from the outside of the shoe to dispose the centers of gravity of the shoes between the said bolts and the inner bearing devices, the outer edges of the cover being secured to the container outside of the said adjusting bolts.

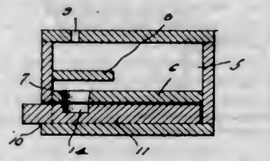
1,685,182. CIGAR AND CIGARETTE HOLDER. ROBERT L. WHITSEL, South Chicago, Ill. Filed June 26, 1926. Serial No. 118,645. Renewed Aug. 6, 1928. 1 Claim. (Cl. 131—51.)



In a cigar and cigarette holder of the class described, a substantially rectangular shaped open top receptacle, the side walls thereof being flared outwardly at their upper ends to provide wings, the upper end of the forward

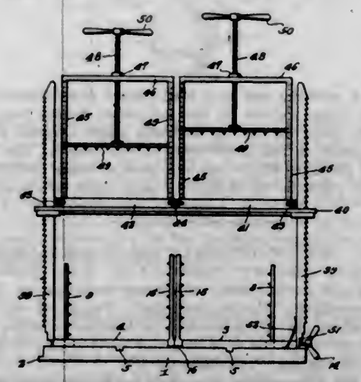
end wall of the receptacle terminating at the lower edges of the wings, the upper edge of the rear end wall of the receptacle extending to the upper edges of the wings, the upper portion of the rear end wall being provided with a threaded opening, a nipple extending through the opening, the intermediate portion thereof being threaded for engagement with the threaded opening, an enlarged socket member formed on the forward end of the nipple for receiving one end of the cigar or cigarette and disposed between the rear end portions of said wings, the rear face of the enlarged socket member engaging the inner face of the upper portion of the rear end wall of the receptacle, the other end of the nipple being provided with a stem receiving socket, said nipple being further provided with a longitudinal smoke passage affording communication between the respective sockets.

1,685,183. DISPENSING CONTAINER. HOWARD H. WILHELM, Jefferson City, Mo. Filed May 16, 1927. Serial No. 191,905. 1 Claim. (Cl. 273—144.)



In a dispensing container of the character described, a closed box having an article entrance opening within the top wall thereof, a false bottom wall within the box in spaced relation with the main bottom wall thereof, one end wall of the box being provided with an opening between said false and main bottom wall, said false wall being provided with an opening through which the articles within the box may pass, and a T-shaped slide member mounted for sliding engagement between the false and bottom walls of the box, the outer end of the slide member at all times projecting through the opening in the box, and being provided at its top side with a pocket for registry with the opening in the false wall when the member is slid inwardly so that the articles passing through the opening in the false wall may drop therein and be removed from the box by moving the slide member in an outward direction.

1,685,184. SLICING MACHINE. PASCUAL ABÁLSAMO, Buenos Aires, Argentina. Filed Oct. 8, 1926, Serial No. 140,307, and in Argentina July 26, 1926. 3 Claims. (Cl. 146—102.)



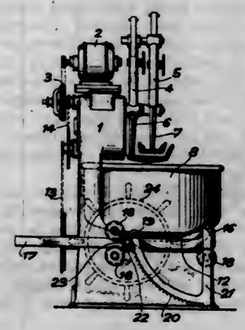
1. In a food-slicing machine of the type comprising a movable feed carriage, the combination of a sliding feed plate supported longitudinally upon the carriage to move in unison therewith; a lever pivotally mounted on the carriage and having a pin-and-slot connection with the plate to advance or retract said plate at will relatively to the carriage; and means on the feed plate for retaining thereon the food to be sliced.

1,685,185. DOUGH-KNEADING MACHINERY. FRIEDRICH AESCHBACH, Aarau, Switzerland. Filed Jan. 12, 1928, Serial No. 246,269, and in Switzerland Nov. 21, 1927. 3 Claims. (Cl. 259—100.)



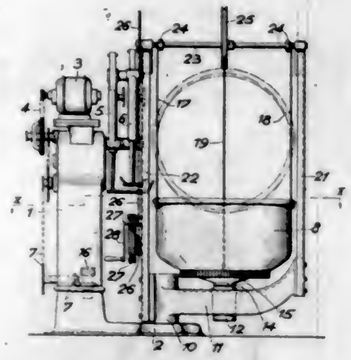
1. In a dough kneading and mixing machine, in combination, a kneading trough, two kneading arms, a mechanism adapted to impart movement to said arms so that their lower ends move in elliptical paths and pass each other in close proximity in counter directions, means provided with each kneading arm to withdraw it from the trough, and an inter-connection between said lifting means adapted to permit one of said arms to be raised without raising the second arm when one of said means is actuated and to raise both arms when the means of said second arm are actuated to prevent said arms from knocking against each other.

1,685,186. KNEADING MACHINE. FRIEDRICH AESCHBACH, Aarau, Switzerland. Filed Jan. 12, 1928, Serial No. 246,270, and in Switzerland Nov. 21, 1927. 5 Claims. (Cl. 259—100.)



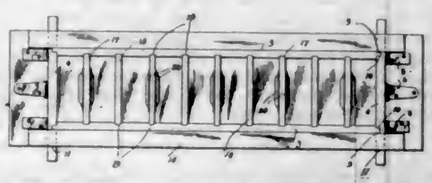
1. In a mixing and kneading machine, in combination, a machine frame, a kneading trough, a frame in which said trough is rotatably mounted, and rails adapted to be endwise displaceable in said machine frame in substantially horizontal direction, said frame being mounted in a tiltable manner on said rails.

1,685,187. DOUGH KNEADING AND MIXING MACHINE. FRIEDRICH AESCHBACH, Aarau, Switzerland. Filed Jan. 12, 1928, Serial No. 246,271, and in Switzerland Nov. 21, 1927. 3 Claims. (Cl. 259—100.)



1. In a dough kneading machine, in combination, a machine frame, an arm swingable about a vertical axis relatively to said frame, a kneading trough rotatably mounted on said arm, and means for lifting and tilting said trough, said means being fixed to said arm and swingable with the latter.

1,685,188. BRICK MOLD. JOSEPH H. BECKWITH, Pine Bluff, Ark. Filed Jan. 31, 1927. Serial No. 164,851. 5 Claims. (Cl. 25—121.)

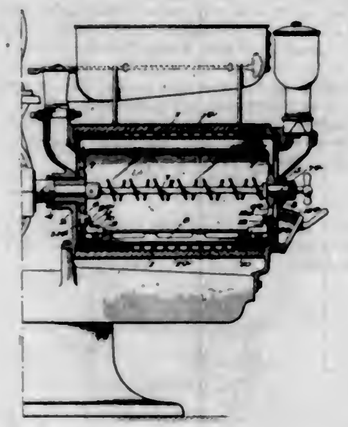


1. A brick mold comprising a bottom, side and end walls pivoted to said bottom, said end walls having their end portions overlapping the ends of said side walls and projecting transversely therefrom, the projecting end portions of the end walls being formed with recesses leading from their upper edge faces, and spring strips of greater length than the side walls secured intermediate their ends against the outer faces of said side walls and having their end portions projecting longitudinally therefrom and recessed from their under faces to provide shank portions fitting into the recesses leading from the upper edge faces of the end walls and bills to engage the outer side faces of the end walls, the extreme end portions of said strips having their under faces beveled longitudinally to form cam surfaces.

3. A brick mold comprising a bottom, side and end walls carried by said bottom, and removable partitions resting upon said bottom and extending between the side walls with their ends engaging the same, alternate partitions being provided with core members projecting from opposite sides thereof whereby bricks formed in the mold will each have one side face formed with a recess.

1,685,189. ICE-CREAM FREEZER. HARRY C. COVER, Baltimore, Md., assignor of one-half to himself and one-half to Manuel Hendler, Baltimore, Md. Filed Oct. 3, 1927. Serial No. 223,707. 6 Claims. (Cl. 259—9.)

1. An ice cream freezer and the like, comprising a cylinder having end heads, at least one of said heads being movable to open said cylinder at one end, a rotary dasher assembly longitudinally arranged and supported within said cylinder, said assembly including a longitudinal scraper to travel with said rotary assembly in scraping engagement with the inner surface of said cylinder, said scraper being pivotally mounted in and carried by said



assembly, and means whereby said scraper is rendered longitudinally removable from and applicable to said assembly through the open end of the freezer that is normally closed by said movable head, while said assembly remains in supported position in the head.

1,685,190. HAT AND METHOD OF MAKING THE SAME. JOSEPH T. CURTIS, New York, N. Y. Filed Oct. 17, 1927. Serial No. 226,658. 1 Claim. (Cl. 2—198.)



A head covering cut in a single piece from material to form the body portion of the hat when folded together, means for securing the top and side edges thereof, and a loop attached to the lower edge of the body of the head covering through which the top of said head covering is drawn to regulate the height of said head covering.

1,685,191. MANUFACTURE OF SOLID ALKALI METAL SALTS OF ORGANIC COMPOUNDS. KARL DOBMAIER, Leverkusen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Jan. 19, 1928, Serial No. 248,004, and in Germany Jan. 18, 1927. 4 Claims. (Cl. 260—13.)

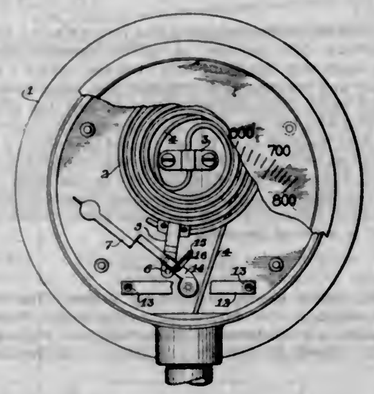
1. In the process for the manufacture of solid alkali metal salts of organic compounds, the step which comprises treating the organic compounds with the alkali metal salts of hydroxylated aromatic bodies.

1,685,192. SPECTACLES. ERNEST E. EMONS, Akron, Ohio, assignor of one-half to Robert E. Hillier, Akron, Ohio. Filed Sept. 17, 1925, Serial No. 56,957. Renewed Mar. 3, 1927. 5 Claims. (Cl. 88—53.)



1. In a pair of spectacles, a front, a pair of end pieces carried by and projecting therefrom at each end thereof, and a pair of temple bars hinged to said end pieces, the axes of the hinges between the bars and end pieces being inclined with respect to the plane of the front, said bars and end pieces having like bevelled surfaces and with the bevel of each surface extending throughout rearwardly at an inclination from its top, the bevelled surfaces of the end pieces adapted to abut the bevelled surfaces of said bars and in connection with the axes of the hinges disposing the front at an acute angle with respect to the bars when these latter extend rearwardly at right angles with respect to the front to prevent the latter from riding downwardly on the nose when set thereon.

1,685,193. THERMOMETER. EDWARD B. FOOTE, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Mar. 3, 1927. Serial No. 172,477. 7 Claims. (Cl. 73—109.)



2. In an instrument of the character described, the combination with a pressure-responsive element and a pointer to be moved thereby, of a shaft, a bearing therefor, a thrust bearing at one end of the shaft, spring means for maintaining the shaft axially under pressure against said thrust bearing, the pointer being connected to said shaft and means connected with the pressure-responsive element for angularly moving the shaft.

1,685,194. AUTOMATICALLY-ADJUSTABLE EMBROIDERY GUIDE. ALBERT J. FORSETH, Grand Forks, N. Dak., assignor to B. F. Gilbert, Fort Worth, Tex. Filed May 5, 1924. Serial No. 711,082. 1 Claim. (Cl. 112—139.)

An attachment for sewing machines comprising a thin metal body portion adapted to extend across the bifurcation of the presser foot of a sewing machine on the upper side of the presser foot, a member on the under side of the body portion adapted to clamp on the under side of the presser foot, said body portion having a thread receiving groove extending across it on its upper side, which groove

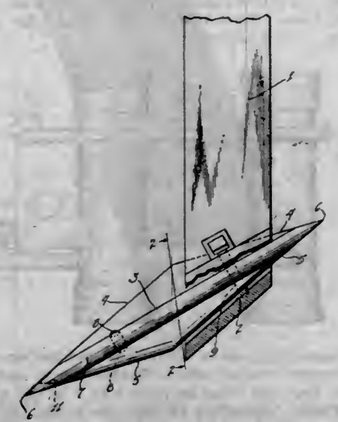


defines a rib on the under side of the body portion, said rib being adapted to extend into the bifurcation of the presser foot and a tongue on the body portion extending crosswise of said groove.

1,685,195. PROCESS OF PURIFYING OILS AND FATS. WILHELM GENSECKE, Bad Homburg, Germany, assignor to American Lurgi Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1925, Serial No. 7,180, and in Italy Feb. 15, 1924. 2 Claims. (Cl. 87—12.)

1. In a process for the purification of oils and fats containing free fatty acids, the steps of slowly introducing a soda solution in amount sufficient to neutralize the free fatty acids into a body of the oil or fat to be purified, and continuously removing the water content of the reaction mixture by evaporation during the neutralization process in an amount at least equal to the amount of water introduced in the form of the soda solution plus the amount formed by reaction.

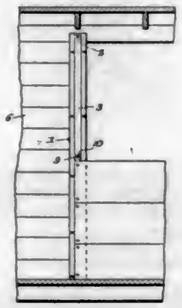
1,685,196. SCARIFIER TOOTH. CLARENCE E. GILBERT, Aberdeen, S. Dak. Filed Nov. 8, 1924. Serial No. 748,659. 1 Claim. (Cl. 262—33.)



A scarifier tool comprising a body provided with parallel walls and ribs provided with parallel walls extending substantially at right angles therefrom, the outer walls of one of said ribs being tapered from a point at one side of the central portion of the tooth to the ends, the walls of the other rib being tapered from a point on the opposite side

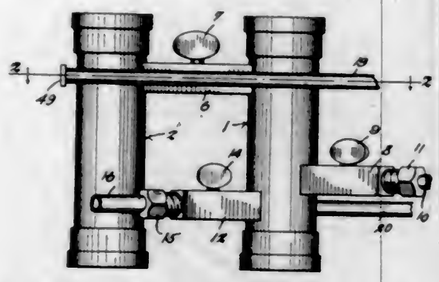
of the center of the tooth to the ends, whereby cutting edges are formed on each end and the horizontal ribs being extended from one end of the tooth to the other.

1,685,197. COMBINED GRAIN-DOOR STRIP AND SIDE-DOOR-POST PROTECTOR. SYLVESTER L. JOINES, McGregor, Tex. Filed Mar. 5, 1927. Serial No. 173,125. 4 Claims. (Cl. 20—27.)



1. A combined grain door strip and side door post protector located interiorly of a car at opposite sides of the door opening thereof and comprising a metallic housing composed of spaced longitudinal side bars consisting of angularly disposed flanges provided with smooth exteriorly curved contast faces and having their inner side edges undercut, and connected together at their back edges by spaced cross pieces, a wood filler strip arranged in the metallic housing and having laterally projecting side portions fitting the undercut side edges of the said side bars, said filler strip being provided with a reduced front portion arranged between the side bars in flush relation with the outer faces thereof, said filler strip filling the space between the side bars of the housing, said filler strip being adapted to receive the fastening device of a grain door, and devices piercing the wood filler strips and the aforesaid back cross pieces whereby to secure thes trip and housing together.

1,685,198. HUMIDIFIER. ABRAHAM F. MARK, Cedar Rapids, Iowa. Filed June 5, 1926. Serial No. 114,022. 1 Claim. (Cl. 123—25.)

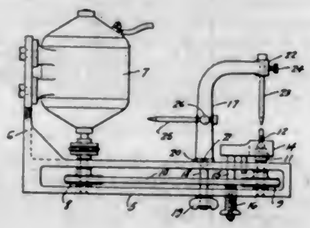


In a humidifying device for internal combustion engines, approximately parallel adjacently-spaced first and second tubes, the first tube being provided with a lateral moist air inlet and with a lateral hot air inlet, the second tube having a lateral outlet, means for connecting the intake manifold of an internal combustion engine with the outlet, a connecting member joined at its ends to the tubes and having a bore which establishes communication between the tubes, a needle valve operating in one end of the bore of the connecting member and extended across the second tube, means connected to the needle valve at a point external to the second tube for operating the needle valve from a distance, a valve controlling each inlet and under the governance of an operator, and closures removably mounted on the ends of the tubes.

1,685,199. PROCESS OF TREATING HATS AND THE LIKE. RAYMOND H. OAKES, Brooklyn, N. Y., assignor to R. H. Comey Brooklyn Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 20, 1927. Serial No. 162,412. 7 Claims. (Cl. 8—2.)

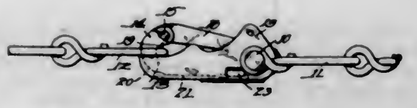
1. A process for removing spots or discolorations from Panama hats and the like which comprises subjecting them to a bath containing calcium hydroxide and then treating the same to remove the alkali.

1,685,200. COUNTERSINK MACHINE. RAYMOND C. PHILLIPS, Los Angeles, Calif., assignor to W. S. Rush & Company, Los Angeles, Calif., a Partnership consisting of W. S. Rush, E. S. Rush, and B. C. Graves. Filed Oct. 6, 1924. Serial No. 741,830. 2 Claims. (Cl. 77—5.)



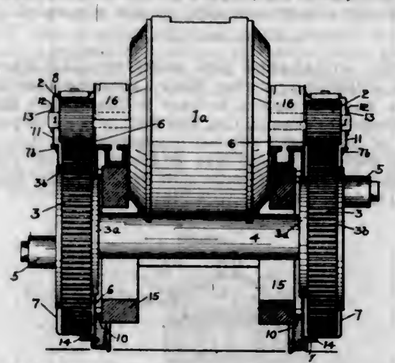
1. A machine of the class described comprising: a base; a countersink drill mounted to extend upwardly therefrom; a depth stop embracing said drill and having a post for raising and lowering said stop, said post being mounted upon said base; means acting upon said post for adjustably raising and lowering said stop; an upright centering pin standard mounted to be turned on said base about a vertical axis and having an overhanging arm provided with a depending adjustable pin fixed thereto in line with said drill; a centering pin adjustably mounted on said standard and extending laterally of said drill; and means to lock said standard in selected positions.

1,685,201. SNAP HOOK. HENRY ST. PIERRE, Worcester, Mass., assignor to St. Pierre Chain Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1927. Serial No. 210,656. 3 Claims. (Cl. 24—241.)



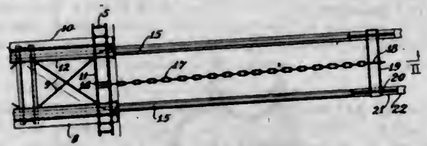
1. As an article of manufacture, a snap-hook comprising a casing formed of a piece of sheet metal doubled on itself to provide two parallel walls spaced apart, a locking lever located between said walls, a wire spring having a hump for engaging the end of said lever in closed or locking position, preventing its accidental disengagement, the casing being bent in on opposite sides to clamp the shank of said spring in position between the sides of the casing, the casing being cut out under the free end of the spring to give it space for motion.

1,685,202. GEAR CASING. ARTHUR F. PITKIN and RALPH P. LA PORTE, Schenectady, N. Y. Filed Oct. 4, 1924. Serial No. 741,551. 5 Claims. (Cl. 74—56.)



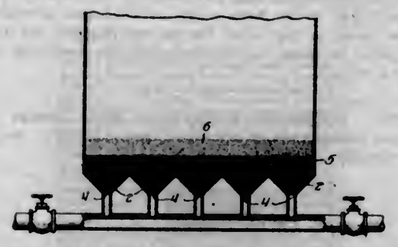
5. In a railroad vehicle, the combination of a shaft; a gear wheel mounted thereon; and a casing, for containing oil, enclosing the gear wheel, and comprising two members enclosing opposite sides of the gear wheel, and encircling the shaft; one of the members having a bottom portion removable to provide a space through which the shaft may be moved cross axially out of the member.

1,685,203. ROTARY DUMP. ERSKINE RAMSAY, Birmingham, Ala. Filed June 7, 1927. Serial No. 197,053. 7 Claims. (Cl. 214—52.)



1. The combination with a rotary dump adapted to turn about a longitudinal fixed axis, of means to overcome endwise movement of the dump, comprising a mounting spaced from and in line with the dump, and swinging connecting means between said mounting and dump, the point of attachment of said connecting means to its mounting being adjacent to the projected axis of rotation of the dump.

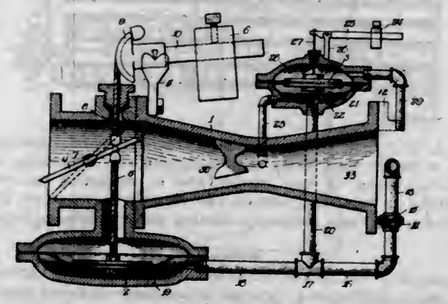
1,685,204. LIQUID-TREATING MATERIAL AND METHOD OF MAKING SAME. ARTHUR SCHREIER, Vienna, Austria, assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 3, 1921, Serial No. 512,688, and in Austria Oct. 8, 1920. 7 Claims. (Cl. 99—1.)



1. A sterilizing material comprising a pervious foundation material with a surface deposit of silver, reduced to metallic form by photochemical action.

7. A process of preparing an active metal coating upon a porous material to be used in purification of fluids, which comprises depositing in and upon the porous material a light sensitive compound of the metal, exposing to light and producing the metal in situ.

1,685,205. RATE OF FLOW CONTROLLER. MILTON F. STEIN, Chicago, Ill., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1924. Serial No. 756,489. 12 Claims. (Cl. 137—78.)



1. A rate of flow controller comprising a tube having a constricted area therein, means for regulating the flow through said tube, a diaphragm operatively associated with said means and having both chambers thereof in communication with said tube at the high pressure portions thereof, and hydraulically operated means for modifying the pressure on one side of said diaphragm incident to change in the rate of flow.

10. In a rate of flow controller the combination with a Venturi tube, of means for controlling the rate of flow through said tube, and means for imparting a rotary motion to the said flow.

1,685,206. RECORD-FILING SYSTEM. CHESTER I. WAGNER, New York, N. Y. Filed Sept. 28, 1923. Serial No. 665,359. 55 Claims. (Cl. 129—16.5.)
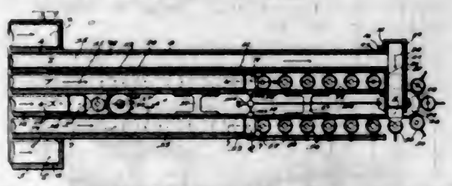


34. A guide for filing-systems, said guide comprising a body-portion, and a plurality of tabs thereon, one tab bearing an alphabetical index, and a separate tab bearing complemental numerical indicia.

41. A record-filing system comprising guides respectively constituted of relatively indestructible material with indicia formed permanently thereon, in relief.

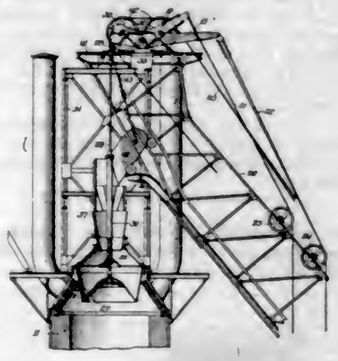
45. A record-filing system comprising guides constituted of relatively indestructible material, and provided with permanent indicia formed in field of contrasting colors.

1,685,207. SIZING APPARATUS. EDWARD A. WHITE, Lewiston, Idaho. Filed Nov. 10, 1926. Serial No. 147,505. 5 Claims. (Cl. 209—84.)



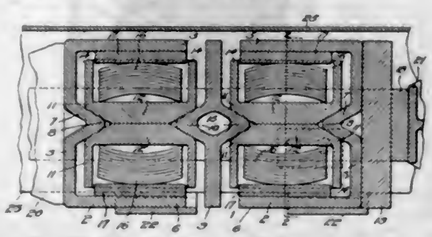
1. In a fruit sizing machine, a travelling carrier having a series of fruit sizing cups and each cup comprising a section fixed to said carrier and a companion section hinged to said fixed section and closable thereagainst by gravity, and cam means for opening said movable sections.

1,685,208. BLAST-FURNACE CONSTRUCTION. FREDERICK H. WILLCOX, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed May 17, 1924. Serial No. 713,966. 1 Claim. (Cl. 214—18.)



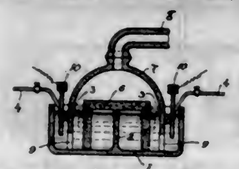
Blast furnace construction comprising a bell supporting frame carried by the furnace structure, a skip incline structure supported independently of the furnace, and idler pulleys carried by the skip incline coacting with bell operating cables whereby the lateral thrust of such cables is received by the independent skip incline structure.

1,685,209. DRAFT RIGGING. DONALD S. BARROWS, Rochester, N. Y. Filed Apr. 22, 1926. Serial No. 103,908. 12 Claims. (Cl. 213—30.)



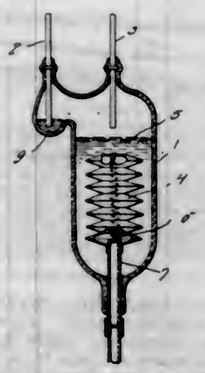
1. In a draft gear, in combination, a friction casing formed with a wedge-shaped inner portion, a plurality of spring carriers enclosed in said casing and formed with friction faces cooperating with the wedge-shaped portion on the casing, a plurality of spring plates contained in said carriers, a follower formed with a wedge-shaped portion complementary to the wedge-shaped portion on the casing and engaging corresponding portions on the spring carriers whereby, when the gear is compressed, the spring carriers move away from each other and compress the spring plates, and wear plates positioned between said spring plates and the adjacent sides of the casing and movable with said carriers when the gear is operated.

1,685,210. APPARATUS FOR ELECTRICALLY HEATING LIQUIDS. GUSTAV BAUM, Weissenstein-on-the-Drau, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y., a Corporation of New York. Original application filed Oct. 15, 1925, Serial No. 62,603, and in Austria Oct. 28, 1924. Divided and this application filed Oct. 19, 1926. Serial No. 142,582. 9 Claims. (Cl. 219—40.)



1. An apparatus for heating liquids by electrical energy consisting of a liquid container made of insulating material, structures with small interstitial spaces dipping into the liquid in the container and extending above the liquid level, and means for leading electric current through the liquid contained in the structures.

1,685,211. HEAT OR PRESSURE RESPONSIVE CIRCUIT CLOSER. LESTER E. BECK, Kelly Station, Pa. Filed Aug. 11, 1927. Serial No. 212,303. 7 Claims. (Cl. 200—152.)



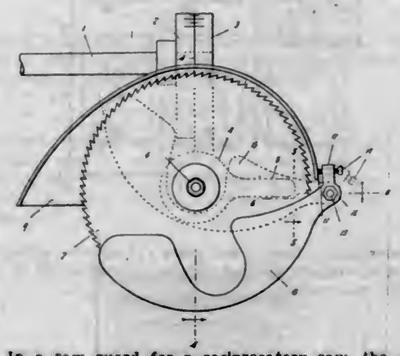
1. A device of the class described comprising a vessel, an electric conducting fluid partly filling the vessel, a bellows immersed in the fluid, a pair of electrodes extending into the vessel so that when the bellows expands the fluid is displaced to cause the immersion of the electrodes for closing a circuit.

1,685,212. LOCOMOTIVE DRIVING BOX. JAMES G. BLUNT, Schenectady, N. Y. Filed Sept. 17, 1926. Serial No. 136,059. 2 Claims. (Cl. 308—43.)



2. The combination of a locomotive driving box, having a recess in the inner face of each of its side walls; a crown brass fitted in the box; a supplemental bearing fitted in each of the recesses, and supporting the crown brass; a wedge fitted in each recess, below the supplemental bearing, affording partial support for the bearing, and adapted to effect vertical adjustment thereof; a lubricant cellar, having means affording partial support for each of the supplemental bearings, said cellar being adapted for adjustment to effect vertical adjustment of the bearings; and means for vertically adjusting the lubricant cellar.

1,685,213. TOOL GUARD. EDWIN DOUGLAS BOYCE, Norristown, Pa. Filed Feb. 20, 1925. Serial No. 10,561. 3 Claims. (Cl. 143—159.)

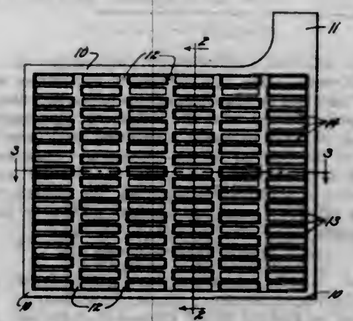


1. In a saw guard for a reciprocatory saw, the combination of a cover plate mounted in fixed relation to the saw and provided with a lug positioned in advance of the saw; and two cover plates pivotally mounted on said lug and provided with arcuate lower edges.

1,685,214. PRODUCTION OF COMMERCIAL BORAX FROM RASORITE BY A WET METHOD. THOMAS M. CRAMER, Long Beach, Calif., assignor to Pacific Coast Borax Company, a Corporation of Nevada. Filed Jan. 22, 1927. Serial No. 162,941. 3 Claims. (Cl. 23—41.)

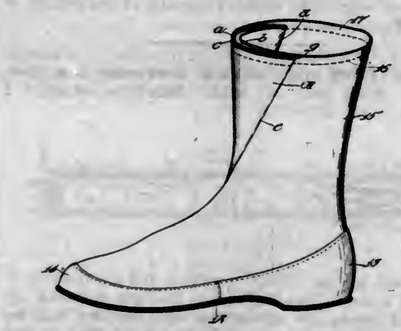
1. In the production of a commercial borax from a solution-resistant sodium borate mineral typically containing four molecular proportions of water to two molecular proportions of B_2O_3, a method which comprises: subjecting said mineral to the action of a form of water at a temperature substantially above 212° F.

1,685,215. STORAGE-BATTERY PLATE. JASPER N. DAVIS, Denver, Colo. Filed June 1, 1926. Serial No. 112,841. 3 Claims. (Cl. 136—36.)



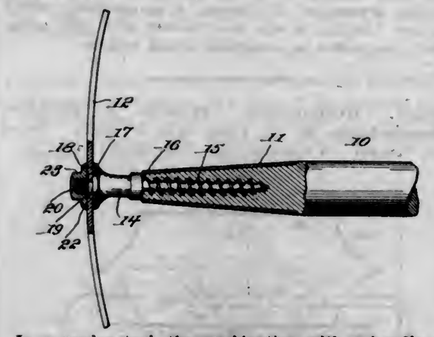
1. In a storage battery plate a grid having a series of parallel, intersecting bars, said bars being rhomboidal in cross section, the cross sections of adjacent bars being at an angle to each other and the cross sections of alternate bars being parallel to each other.

1,685,216. FOOTWEAR. GEORGE P. DIKE, Brookline, Mass. Filed Jan. 20, 1923. Serial No. 613,801. 6 Claims. (Cl. 36—50.)



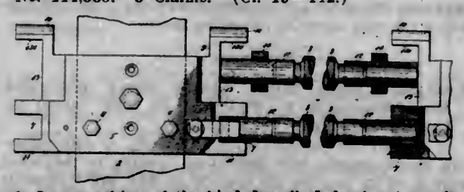
1. An article of footwear having a circumferentially closed upper which is folded upon itself along a diagonal line extending from a point near the bottom of the shoe diagonally across to the opposite side of the leg at the top.

1,685,217. GARDEN TOOL. EUGENE P. GUTHRIE, Dallas, Tex. Filed Aug. 7, 1925. Serial No. 48,848. 1 Claim. (Cl. 306—26.)



In a garden tool, the combination with a handle provided with a ferrule to prevent splitting of the end of the handle, a shank having a threaded extension having a tapered end penetrating axially through the end of the handle with a shoulder at the base of the extension, the end of the shank opposite the extension having a rectangular boss with a screw stud extending from the face of the boss, a plate having an opening corresponding in shape to fit the boss, the boss being of less thickness than the thickness of the plate, and a nut threadedly engaging the stud to clamp the plate to a flat face at the end of the shank at a point closely adjacent the base of the boss, thereby holding the plate rigid and against turning.

1,685,218. BEARING FOR TOP-DETACHING ROLLS. WILLIAM P. HOMANS, Canton, Mass., assignor to Alsatian Machine Works, Limited, Boston, Mass., a Corporation of Massachusetts. Filed June 8, 1926. Serial No. 114,535. 3 Claims. (Cl. 19—142.)



1. In a machine of the kind described, having top rolls and bottom rolls, a top roll having at each end a bushing

of substantially an equal diameter throughout and a socketed interior to receive an end of said top roll, and bearings to hold said top roll in proper relation to a bottom roll adapted to engage a bushing at any portion of its periphery.

1,685,219. COIN BOX. HANS K. LORENTZEN, New York, N. Y. Filed Mar. 26, 1926. Serial No. 97,535. 2 Claims. (Cl. 232—15.)

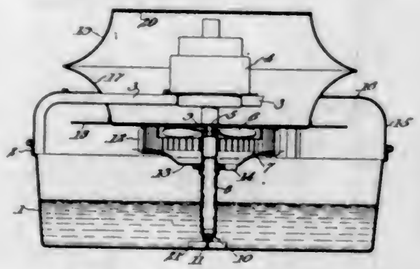


1. A coin box having an open end, and an aperture in one side, a control box fitting into the open end, and key controlled means for obstructing said aperture and for assisting in locking said control box in position in said coin box.

1,685,220. PROCESS OF ACYLATING CARBOHYDRATES. EDMUND B. MIDDLETON, Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 3, 1925. Serial No. 34,733. 3 Claims. (Cl. 260—101.)

1. The process of acetylating a carbohydrate which comprises bringing ketene into contact with said carbohydrate suspended in a suitable liquid medium.

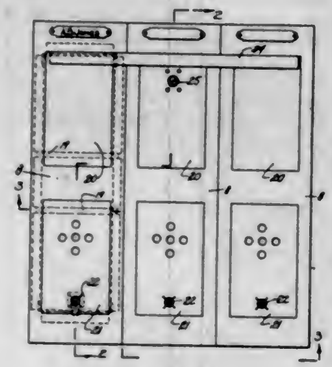
1,685,221. HUMIDIFIER. FREDERIC F. BAHNSON, Winston-Salem, N. C. Filed June 30, 1924. Serial No. 723,404. 8 Claims. (Cl. 261—91.)



1. In a humidifier, a supporting frame, a motor carried by the frame, a tube depending from said frame and having an opening near the upper end thereof, said tube being rotatable by said motor to deliver water through said opening, a fan located above said opening and establishing a current of air downwardly along said tube, and means carried by and extending laterally from said tube below said opening to receive water delivered therethrough, said means having openings therethrough permitting a portion of said air current to cross the path taken by the water and to move outwardly from said tube below the said laterally extending means.

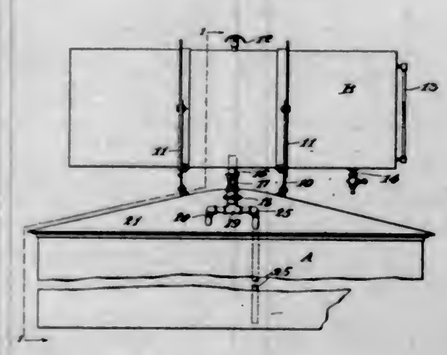
1,685,222. MAIL BOX. ALBERT EDGAR BLACKMAN, Mount Vernon, N. Y. Filed Aug. 16, 1924. Serial No. 732,515. 7 Claims. (Cl. 232—25.)

5. A mail box provided with a plurality of mail receiving compartments, each having an opening in the lower portion of its face for the removal of mail and a separate opening of substantially the same area located above the first mentioned opening for the insertion of mail, an individual door provided with an individual lock for closing each of said lower openings, a master door section for closing each of said upper openings, said sections



hinged adjacent their lower edges and opening outwardly and a bar rigidly secured to and connecting all of said master door sections.

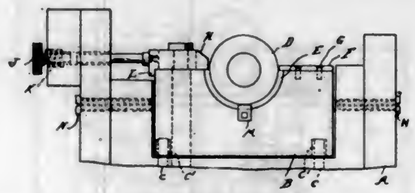
1,685,223. ELECTRICAL APPARATUS. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Dec. 20, 1924. Serial No. 757,120. Renewed Mar. 22, 1927. 8 Claims. (Cl. 220—85.)



1. The combination of a transformer tank, an oil expansion tank and means forming two passages which communicate at one end with the interior of said expansion tank, one of said passages connecting with the upper portion of the interior of the transformer tank and the other of said passages extending downwardly through the interior of said transformer tank and communicating with the interior of said transformer tank near the bottom thereof.

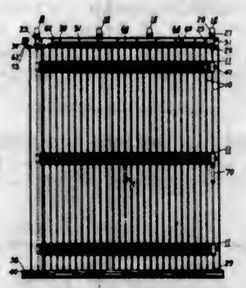
1,685,224. HOLDING BLOCK FOR BROACHING HALF BEARINGS. LOWELL C. BLOMSTROM, Detroit, Mich., assignor to Federal Mogul Corporation, Detroit, Mich., a Corporation of Michigan. Filed July 18, 1927. Serial No. 206,524. 7 Claims. (Cl. 90—59.)

1. Means for holding a half bearing in position for broaching, comprising, in combination with a base block provided with a seat of suitable contour, a fixed shelf projecting over one lateral edge of the bearing seat, under which one edge of the half bearing is adapted to be slipped when the latter is first placed in its seat, and a slidable



holding piece adapted to be moved transversely of the axis of the half bearing for accurate engagement over the upturned opposite edge of the latter.

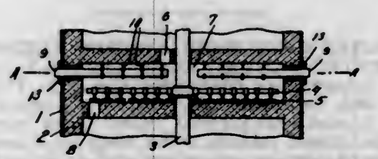
1,685,225. GATE MECHANISM. THOMAS BRADY, East Orange, N. J., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 10, 1926. Serial No. 121,572. 6 Claims. (Cl. 89—86.)



1. A gate comprising, a plurality of parallel vertical members, a plurality of hinges for connecting said members together, said hinges being arranged in a plurality of horizontal rows, and a plurality of members, secured to the vertical members and movable with respect to the hinges, for positioning the hinges on the vertical members.

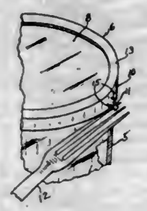
3. A gate comprising, a plurality of spaced vertical tubes, supporting hangers attached to certain of said tubes, hinge members connecting and spacing said tubes, and sleeves secured to the tubes, said sleeves serving to position the hinge members on the tubes.

1,685,226. HEATING HIGH-TEMPERATURE APPARATUS. CHARLES LALOR BURDICK, New York, N. Y., assignor to Guggenheim Brothers, New York, N. Y., a Copartnership. Filed June 25, 1926. Serial No. 118,413. 5 Claims. (Cl. 266—1.5.)



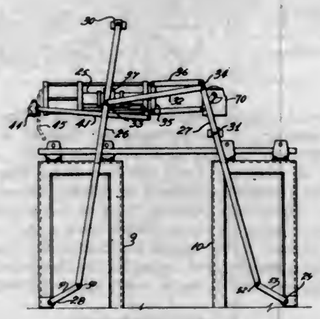
1. The combination with a high temperature apparatus having a heating chamber of circular section of electric heating units comprising a plurality of elongated electric heating elements each radially disposed in said chamber and of such construction that the amount of heat generated by said element progressively increases from the center towards the periphery of said heating chamber.

1,685,227. CLOSURE DEVICE. LESLIE R. N. CARVALHO, Toledo, Ohio. Filed Oct. 27, 1925. Serial No. 65,154. 5 Claims. (Cl. 215—46.)



1. A receptacle closure comprising a top portion, a depending flange having a margin thereof formed at regular intervals with small lugs, said lugs being curved outwardly transversely of their length with diminutive radii to make tearing of said flange expeditious, and a resilient curved flange formed by bending inward the margin between the said lugs, to separably attach the closure to a receptacle by friction.

1,685,228. ELEVATOR AND INCLOSURE THEREFOR. WILLIAM B. CROWELL, New York, N. Y., assignor to Elevator Supplies Company, Inc., Hoboken, N. J., a Corporation of New Jersey. Filed Dec. 7, 1926. Serial No. 153,078. 14 Claims. (Cl. 187—1.)

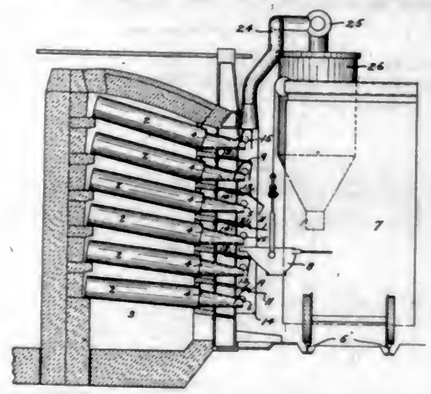


2. A four-walled elevator inclosure extending past a plurality of landings and provided with a pair of passageways in one of its walls at each landing, in combination with an elevator cage in said inclosure also provided with a pair of passageways in the corresponding wall, gates normally preventing passage of persons thru said passageways, a controller in said cage for causing the cage to stop opposite said landings, and means controlled from said cage for opening the gates at a landing opposite which said cage has stopped.

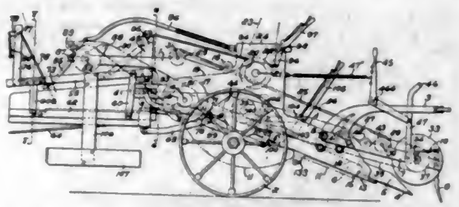
1,685,229. APPARATUS FOR TREATING FUMES. MORTON I. DORFAN, New York, N. Y., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 21, 1923. Serial No. 676,018. 5 Claims. (Cl. 266—19.)

1. In combination with a plurality of retorts each having means for discharging burning fumes, a hood disposed over each of said discharge means, each of said hoods com-

prising an adjustable wall located in front of said discharge means and being formed to provide a combustion zone at the adjacent retort and having an opening for admitting fresh air directly to said zone, means for collecting gases of combustion from all of said hoods, and means for separating the solids from the collected gases.



1,685,230. POTATO DIGGER. THOMAS GIBERSON, Caribou, Me. Filed Apr. 16, 1926. Serial No. 102,472. 16 Claims. (Cl. 55—138.)



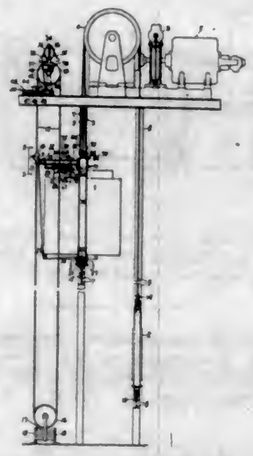
5. A potato digger comprising a frame, yielding row positioning members at the forward end thereof, a motor-operated rotatable feeding member between the positioning members for feeding the row centrally of the digger, an elevator with a smooth surfaced row pusher thereover resting upon and frictionally pushing the row rearwardly for elevating the row; a swinging shaker with a vine buncher at the rear thereof, a vine kicker for kicking the vines toward the bunching member and means on the frame for operating the feeding member, elevator, row pusher and kicker.

1,685,231. RECOVERY OF SULPHUR. WILLIAM H. HOWARD, Salt Lake City, Utah. Filed Aug. 20, 1927. Serial No. 214,445. 7 Claims. (Cl. 23—226.)

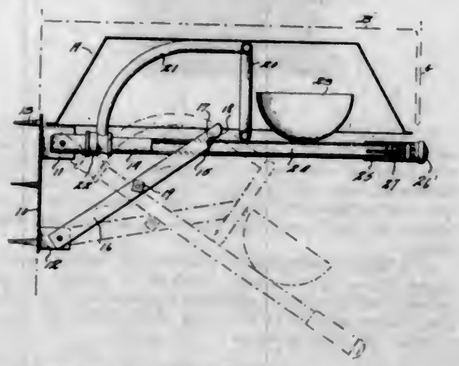
1. The method of recovering sulphur from furnace gases containing sulphur dioxide which comprises passing the furnace gases in contact with a body of water to form a solution of sulphur dioxide, passing a current of air in contact with the sulphur dioxide solution to form a mixture of air and sulphur dioxide, and subjecting the mixture of air and sulphur dioxide to the action of incandescent carbonaceous material.

1,685,232. ELEVATOR SAFETY APPLIANCE. FREDERICK HYMANS, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 30, 1926. Serial No. 138,704. 4 Claims. (Cl. 187—89.)

3. Means for causing the operation of a governor rope actuated safety appliance comprising, coacting jaws carried by the car, spring means tending to cause said jaws to grip the governor rope, a latch for retaining said jaws away from the governor rope, and means controlled by the hoisting ropes for releasing said latch to cause the jaws to grip the governor rope and effect the operation of the safety appliance.



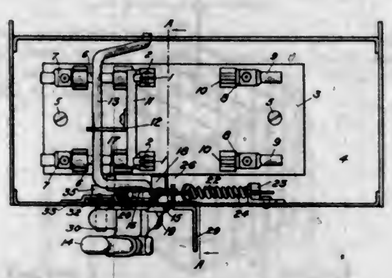
1,685,233. DISHPAN HOLDER FOR SINKS. JOHN R. JEWETT, Jr., Grand Island, Nebr. Filed May 12, 1927. Serial No. 190,930. 5 Claims. (Cl. 248—20.)



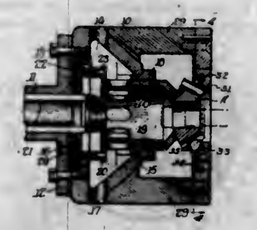
4. A dish pan holder of the character described including a bracket, an arm pivoted upon the bracket, a frame projecting upward from the arm and approximately conforming to the shape of an inverted dish pan, means for latching the arm in a raised position and means for releasing the said latching means including a push button mounted upon the forward end of the arm.

1,685,234. QUICK-MAKE-AND-BREAK ELECTRIC SWITCH. MORRIS KATCHER, New York, N. Y., assignor to Columbia Metal Box Co., New York, N. Y. Filed Feb. 6, 1925. Serial No. 7,327. 6 Claims. (Cl. 200—67.)

1. A quick make-and-break electric switch comprising circuit terminal contacts, switch levers for opening and closing the circuits between said contacts, a box for enclosing said contacts and switch levers, a handle located outside the box having an extension projecting through one wall of same and rotatably mounted therein, said extension having a necked down portion projecting just within the box, a slotted sheet metal stamping having its slotted portion fitting over said necked down portion within the box, said stamping having a tongue bent up from it and towards the interior of the box, means for operating the switch levers and spring actuated means having a lost motion connection to said operating means for snapping the switch levers into open and closed positions, said spring means being adapted to be tripped by said tongue.

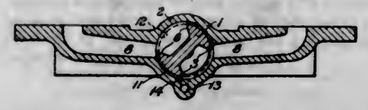


1,685,235. CHUCK. HERBERT E. KEMPTON, KEITH F. GALLIMORE, and RAYMOND M. WOYTYCH, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 2, 1924. Serial No. 723,661. 6 Claims. (Cl. 279—1.)



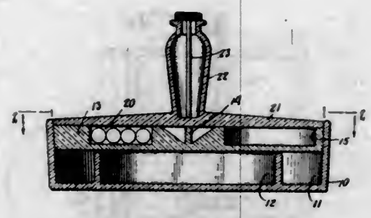
6. A chuck having, in combination, a chuck body, a front plate provided by said body, said front plate having a central axial bore, hollow guiding means in said body having an interior cylindrical surface coaxial with said bore, a clamping member in the form of a sleeve longitudinally movable in said guiding means, spring means to normally force said clamping member towards said front plate, and a draw bar for drawing said clamping member away from said front plate.

1,685,236. PLUG COCK. JOSEPH LAWSON, Great St. Helens, London, England, assignor to Asiatic Petroleum Company, Limited, St. Helens Court, London, England. Filed Jan. 3, 1928, Serial No. 244,341, and in Great Britain Sept. 24, 1926. 8 Claims. (Cl. 251—110.)



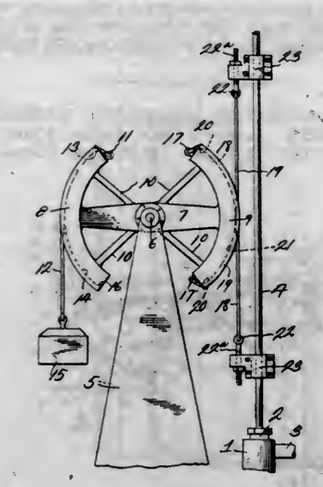
1. In a plug cock the combination of a plug, a plurality of ports formed in the periphery of said plug, grooves formed in the periphery of said plug and extending completely around said ports, and means adapted to place said grooves in communication with a reservoir.

1,685,237. VANITY TRAY. LOUIS LEVIEN, New York, N. Y. Filed Aug. 18, 1927. Serial No. 213,965. 3 Claims. (Cl. 206—1.)



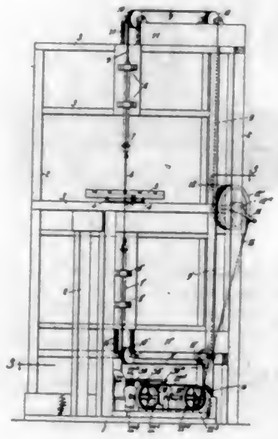
3. A vanity case having a body portion having the interior thereof provided with a circular flange therein, an intermediate cover member located within said body portion and adapted to rest upon said flange, said intermediate cover member having a central depression provided with a ridge to serve as a hand-hold and a cover positioned upon said intermediate portion and within said body portion.

1,685,238. DERRICK WALKING BEAM. WILLIAM R. MCDOWELL, Las Vegas, Nev. Filed July 14, 1926. Serial No. 122,481. 1 Claim. (Cl. 74—5.)



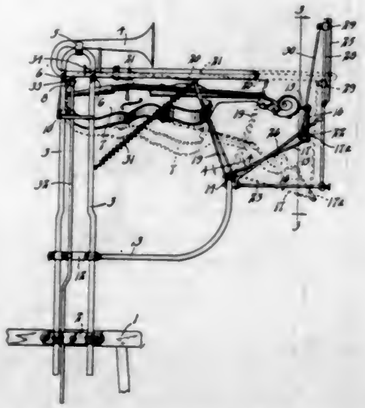
The combination with a pump rod, an oscillating walking beam adjacent said pump rod, of segmental members concentrically arranged and carried by the end of said beam, a flexible member anchored to the upper end of one of said segmentally shaped members in a groove in the outer periphery thereof, a weight carried by said flexible member, said weight being positioned whereby upon oscillation of the beam in one direction, one side of said weight will pass between the adjacent ends of the segmental members, the other segmental member having its outer periphery adjacent the pump rod, flexible members connected to opposite ends of the last mentioned segmental member, said flexible members extending through grooves in the periphery of the last mentioned segmental member and anchored to the pump rod at spaced points.

1,685,239. RECIPROCATING-SAW MACHINE. CHARLES A. MORAN, Bernardsville, N. J. Filed Mar. 13, 1926. Serial No. 94,378. 10 Claims. (Cl. 29—74.)



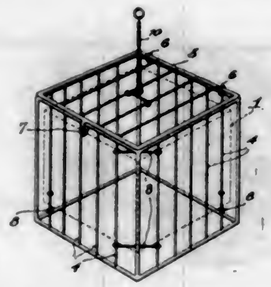
1. A reciprocating saw machine comprising two flexible elements for reciprocating the saw, an oscillating element, two oscillating wheels for receiving said flexible elements and to which said flexible elements are respectively secured, and adjustable means respectively connecting said wheels to said oscillating element for tensioning said flexible element.

1,685,240. OPERATING MEANS FOR MUSICAL INSTRUMENTS. ALBERT NELSON, Buffalo, Minn. Filed July 12, 1926. Serial No. 121,873. 14 Claims. (Cl. 84—170.)



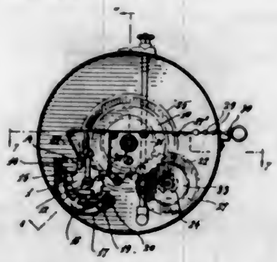
6. In combination with a bowed instrument of the viol type and a wind instrument of the type having a playing slide, a vertically adjustable standard adapted to hold said instruments in such relation that said first mentioned instrument can be bowed and said last mentioned instrument blown at the same time by a single operator, the base of said first mentioned instrument being pivoted to said standard and means for operating the tuning slide of said second mentioned instrument from movement imparted thereto by swinging movement of said first mentioned instrument.

1,685,241. INSECT TRAP. ANNABELLE S. NORTHRUP, Norfolk, Va. Filed July 7, 1926. Serial No. 121,022. 2 Claims. (Cl. 43—107.)



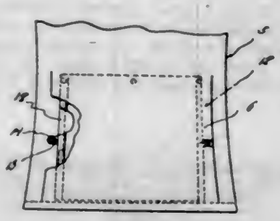
1. An insect trap comprising a guard body consisting of a plurality of spaced wires, horizontally disposed members carried by certain of said spaced wires, a removable bait carrier including a frame and bait-carrying side walls arranged to form a cube and the corners of the frame of said bait carrier being adapted to rest on the horizontal supporting members thereby to expose all sides of the bait carrier.

1,685,242. PEDOMETER. ROBERT VAUGHAN OWEN, New York, N. Y. Filed Aug. 23, 1927. Serial No. 214,808. 4 Claims. (Cl. 235—105.)



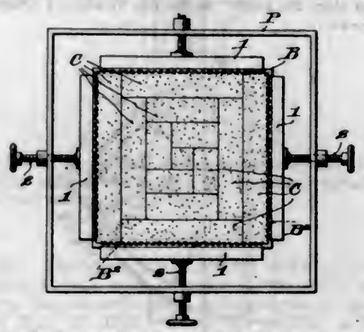
1. In pedometers, in combination with a casing, a distance indicating member and gearing for driving said member, a pendulum device for actuating said gearing and a striker for actuating said pendulum.

1,685,243. GAME POUCH. JOHN WOODS RICH, Woolrich, Pa. Filed Dec. 29, 1927. Serial No. 243,256. 1 Claim. (Cl. 2—248.)



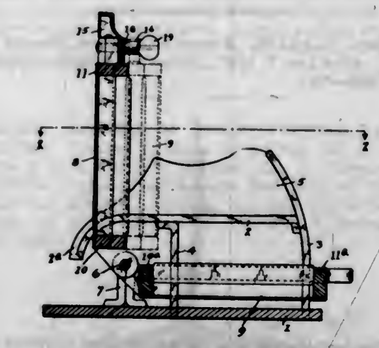
As a new product of manufacture, a game pouch for use in association with a hunter's coat pocket, said pouch being composed of two thicknesses of material connected together along the top and bottom edges, and stitched along their remaining side edges up to a predetermined point, forming entrance mouths on opposite sides, said pouch being constructed of substantially water-proof material, and being equipped with apertured tabs and fastening means whereby it may be separably connected with a coat.

1,685,244. METHOD OF MAKING SOUND AND VIBRATION INSULATING UNITS. SIEGFRIED ROSENZWEIG, New York, N. Y. Filed Sept. 4, 1925. Serial No. 54,585. 2 Claims. (Cl. 20—4.)



1. A method of making sound and vibration insulating units of the type including a sound deadening center and a metal frame which consists in assembling a plurality of pieces of soft material in a rectangular metal frame until the sides of the frame bulge outwardly, and subsequently restoring the frame to its normal shape by exerting pressure on the outwardly bulged sides thereof to compress the pieces of material to lock the same in place.

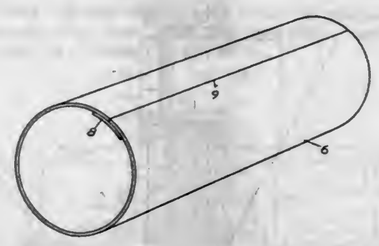
1,685,245. VEGETABLE CUTTER. CALOGERO RUSSO, Cleveland, Ohio. Filed May 4, 1925. Serial No. 27,678. 3 Claims. (Cl. 146—147.)



1. A cutter comprising a base, means for supporting articles to be cut, said means comprising parallel spaced bars above the base, a pair of frames pivoted to swing independently about a common axis toward and from the base and parallel blades fixed in said frames and positioned to pass between said bars, both said frames being movable to positions in which said blades are entirely below the top surfaces of said bars.

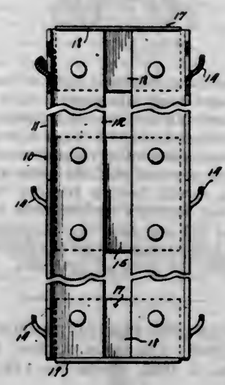
1,685,246. CONTAINER AND METHOD OF MAKING THE SAME. ALAN M. SCAIFE, Pittsburgh, Pa., assignor to Wm. B. Scaife & Sons Company, a Corporation of Pennsylvania. Filed June 1, 1927. Serial No. 195,645. 3 Claims. (Cl. 113—116.)

1. A tank having a longitudinally-extending seam formed by abutting edges of the tank and an interior longitudinally-extending strap member brazed to each other, the ends of said strap being swaged to form inclined faces at one side of the tank only to permit the ready insertion of the tank heads.



3. The method of making a cylindrical metal vessel having a longitudinal joint interiorly reinforced, consisting in cutting a sheet metal blank to bring its longitudinal edges together in abutting relationship, then inserting a reinforcing metal strip having flattened ends on said seam, said strip bridging the seam and running the full length of the vessel, initially fastening together the adjacent faces of the strip and the vessel on both sides of the seam and throughout the length of the seam in such a manner as to prevent the intense heat of the subsequent brazing operation from distorting or warping the strip, and finally brazing the parts together.

1,685,247. STUDDING FOR BUILDING STRUCTURES. EDWARD B. SELWAY, Leetsdale, Pa. Filed Nov. 22, 1927. Serial No. 235,005. 1 Claim. (Cl. 72—115.)

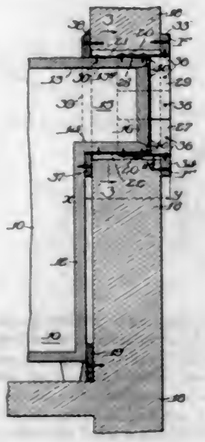


A metallic stud of the character described comprising two parallel angle irons having flanges projecting toward each other and perforated, the other flange of each angle iron being provided with outwardly projecting tongues, tie plates connecting the first named flanges of the angle irons, and angle irons disposed at the top and bottom of the studding and having flanges connected to the first named flanges of the angle irons and having horizontal flanges formed with apertures for the passage of pipes, wiring, etc.

1,685,248. REFRIGERATOR AND INSTALLATION CONSTRUCTION THEREFOR. OTTO STRUPP, Dwight, Ill. Filed June 4, 1927. Serial No. 196,498. 6 Claims. (Cl. 20—1.11.)

1. The combination with a refrigerator having a body extension of the character described adapted to pass deeply

into an opening through a building wall, of a metallic covering surrounding the extension and projecting to the outside of the building wall when the refrigerator is nor-



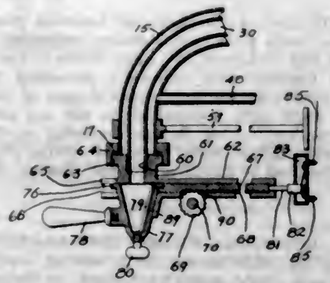
mally installed, with a border-like member at the outer extremity of said covering for closing the outer margins of the opening through the building wall.

1,685,249. MACARONI DIE. MARIO TANZI, Boston, Mass. Filed Jan. 23, 1928. Serial No. 248,855. 5 Claims. (Cl. 107—14.)



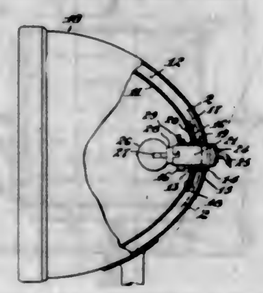
3. A die for forming macaroni and the like consisting of a die plate having a dough discharging aperture comprising a longitudinal slot and an opening located midway of the length of said slot and constituting a lateral enlargement thereof, a channel substantially equal in area with said opening extending through said die plate and terminating in said opening, dough feeding recesses leading through said die plate and passages leading from said recesses to said longitudinal slot and also to said channel, said dough feeding recesses and passages being of relatively large areas as compared with the area of said slot.

1,685,250. APPARATUS FOR DISPENSING ICE CREAM AND THE LIKE. FREDERICK E. KEY, East St. Louis, Ill. Filed Nov. 1, 1926. Serial No. 145,477. 4 Claims. (Cl. 107—8.)



1. In an apparatus for dispensing ice cream comprising a magazine adapted to hold a body of cream, a restricted discharge opening formed in one end of said magazine, a valve for closing said discharge opening, a dispensing device adapted to be moved into alignment with said opening when said valve is opened, means for applying pressure to the interior of said magazine at the end opposite said opening simultaneously with the opening of the valve, and means for automatically stopping the application of additional pressure when said valve is closed.

1,685,251. LAMP. FRANK THURBER, Los Angeles, Calif. Filed Mar. 25, 1926. Serial No. 97,412. 1 Claim. (Cl. 240—44.)



In combination with a reflector having an opening therethrough; a ductile plate secured to the reflector and having an opening registering with the opening in the reflector; a sleeve extended through the opening in said plate; a tubular member seated in said sleeve and adapted to receive an incandescent electric lamp; means carried by said sleeve whereby said tubular member may be lengthwise adjustable in the sleeve, said plate being constructed of ductile material whereby said sleeve, said tubular member and the lamp carried thereby may be bodily shifted with respect to the reflector so that the filament of the lamp may have universal focusing with respect to the reflector.

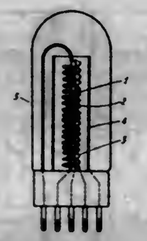
1,685,252. CURTAIN. RUDOLPH O. TRUER, Murray Hill, N. J. Filed July 7, 1927. Serial No. 203,910. 4 Claims. (Cl. 156—10.)



1. The combination of a curtain heading provided upon its back with a textile drapery-carrying strip, and flexible metal carriers attached thereto and being normally flat and disposed parallel to the plane of the hanging curtain but readily bendable into hooks adapted to cooperate with a curtain rod.

1,685,253. DOUBLE-GRID THERMIONIC TUBE. MANFRED VON ARDENNE, Berlin, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Dec. 17, 1926, Serial No. 155,544, and in Germany Dec. 1, 1925. 1 Claim. (Cl. 250—27.5.)

A thermionic tube comprising a straight filament substantially 2 centimeters long, a pair of concentric coiled grids about the filament composed of wire whose diameter is substantially 2 millimeters, the inner grid having substantially 13 turns and a diameter of substantially 2.7 millimeters, the outer grid having a diameter of substantially 602 millimeters and having substantially 18 turns, the inner grid being adapted for causing high frequency



variations in the electron stream of the tube, and the outer grid being adapted for causing low frequency variations in the electron stream of the tube.

1,685,254. REENFORCED PLASTER BOARD. CURRY O. WALPER, Detroit, Mich., assignor to Standard Plastering System, Inc., Detroit, Mich., a Corporation of Michigan. Filed Mar. 15, 1926. Serial No. 94,797. 2 Claims. (Cl. 72—16.)



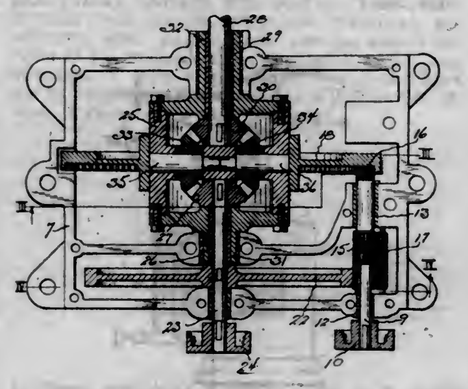
1. In a building construction, a plaster board having a wire fabric embedded therein and coextensive therewith, a support, fastening elements driven through the board into said support and the heads of which contact with and are obstructed by said wire fabric, thereby leaving recesses in the board, and plaster applied to the outer surface of the board and filling said recesses.

1,685,255. METHOD OF MANUFACTURING RAIL ANCHORS. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Original application filed June 9, 1925, Serial No. 655,240. Divided and this application filed Apr. 23, 1924. Serial No. 708,493. 2 Claims. (Cl. 29—169.)



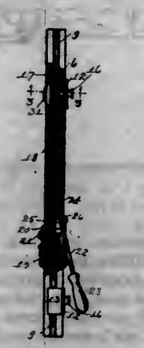
1. In the manufacture of a rail anchor having a bearing near one end for the marginal upper surface of the rail base and a bearing at a place intermediate the ends of the anchor for the under-surface of said rail base, the method of accurately positioning said bearing surfaces with respect to each other both lengthwise of the anchor and vertically thereof, which comprises bending the blank to form said intermediate bearing, holding said blank on a form so as to fix the position of the intermediate bearing and bending the end of the blank around a form and over a projection thereon so as to indent the blank at substantially the termination of said bend to form the point of bearing of said end bearing surface.

1,685,256. SPEED REDUCER. DIXON E. WASHINGTON, Kansas City, Mo. Filed Feb. 20, 1926. Serial No. 89,595. 2 Claims. (Cl. 74—34.)



1. A speed reducer comprising a supporting casing, a differential case rotatably carried thereby, a differential gear-set within said case including a pair of master gears disposed in axial alinement and each keyed to a shaft extending exteriorly of said differential case and rotatably mounted on said casing, a driven shaft mounted on said casing, means actuated by said driven shaft for rotating one of said master gear shafts in one direction at a slower rate of speed than said driven shaft, said means comprising an idler gear journalled in said casing, and means actuated by said driven shaft for rotating said differential case in the same direction at a higher rate of speed whereby the other of said master gears and associated shaft is rotated at a rate of speed equal to the difference in the rate of speed of said case and first-mentioned master gear and said reducer is provided with a medium and slow speed take-off shaft having rotation in the same direction.

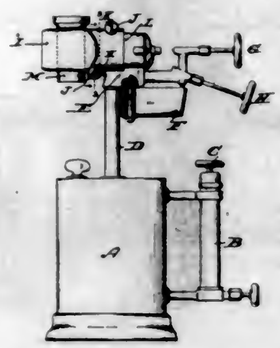
1,685,257. DIRECTION INDICATOR FOR VEHICLES. RUSSELL J. WEIGLE, East Grand Rapids, Mich. Filed Dec. 19, 1927. Serial No. 240,997. 6 Claims. (Cl. 116—52.)



1. In a device of the character described: a body having a guide slot comprising a horizontal portion and a vertical portion; a hinge member comprising leaves swing-

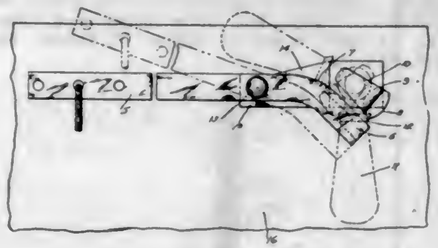
ably connected on a vertical axis one of said leaves being carried by the body; an indicator arm carried by the other leaf of the hinge member swingably on a horizontal axis; an operating elongated member connected to the arm pivotally on a vertical axis and movable in said portions of the guide-slot.

1,685,258. TINNING CUP ATTACHMENT FOR BLOW-TORCHES. HARRY F. WEINERT, Detroit, Mich. Filed Feb. 23, 1927. Serial No. 170,104. 1 Claim. (Cl. 126—240.)



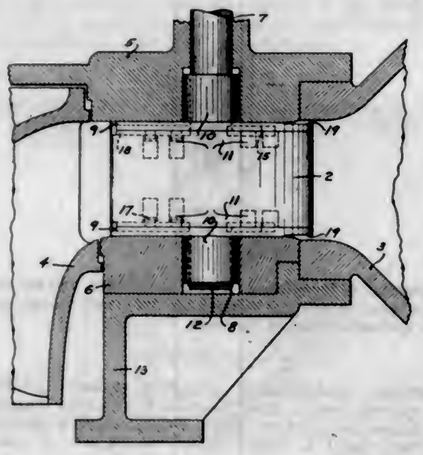
A tinning cup attachment for a torch comprising a tubular bracket, said bracket having opposite end portions axially alined with each other and of different internal diameters, means for attaching the end portion of lesser diameter to the torch, and the end portion of greater diameter having means for supporting the cup transversely of the axis of the bracket with the exterior surface of the cup spaced from the inner surface of the bracket.

1,685,259. FLUSH-TANK FITTING. ARTHUR W. WELLINGTON, Waterbury, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Sept. 4, 1926. Serial No. 133,564. 1 Claim. (Cl. 4—67.)



In a revoluble-handle flush-tank fitting, the combination with a valve-lifting lever, the inner end of which is provided with a downwardly-inclined operating-surface, of a handle-shaft, a handle located at the outer end thereof, and an eccentric positioned upon the inner end thereof at an acute angle with respect to the handle and so as to normally occupy a plane parallel with the said operating-surface when the handle is depending in the vertical plane, whereby the weight of the handle and eccentric act in unison to move the said eccentric from a dead-center position with respect to the said operating-surface.

1,685,260. GUIDE VANE. WILLIAM M. WHITE, Milwaukee, Wis. Filed June 17, 1926. Serial No. 116,551. 2 Claims. (Cl. 253—122.)



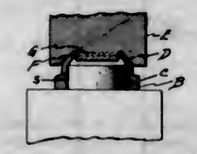
1. In combination, a casing element, a vane element formed to direct fluid into said casing element and pivotally associated therewith, and a packing member supported by one of said elements and resiliently urged against the other on opposite sides of the vane element pivot.

1,685,261. HYDRAULIC TURBINE. WILLIAM M. WHITE, Milwaukee, Wis. Filed Aug. 23, 1926. Serial No. 130,819. 7 Claims. (Cl. 253—122.)



1. In combination, a casing element, a vane element posed about the axis of said rotor, and a series of movable vanes located between said fixed vanes and said rotor, some of the movable vanes having different shape than others.

1,685,262. PROCESS OF MAKING GLAND NUTS. WILLIAM R. WILEY, Mount Clemens, Mich. Filed Dec. 6, 1924. Serial No. 754,288. 4 Claims. (Cl. 10—86.)



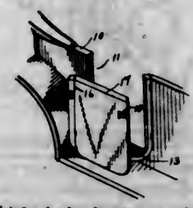
3. The process of forming a gland packing nut from an interiorly threaded cylindrical blank, consisting in inbending the top edge thereof by the pressure thereupon of a descending member having in its under face an annular groove of corresponding peripheral size to that of the blank, the outer lateral wall of said groove being angularly inclined to cause an inward inclination of the top edge of the blank when engaged, and thereafter stamping the then inbent top edge of the blank into occupancy of a plane to which the axis of the blank is substantially perpendicular.

1,685,263. HAT GUARD. FREDERICK WILLIAM JAMES WOLFF, San Francisco, Calif. Filed Sept. 21, 1927. Serial No. 221,075. 1 Claim. (Cl. 132—58.)



In a straw hat securing device the combination comprising, a short elastic band, a clasp engaging each extremity of the said band, said clasp comprising two discs linked together at one portion of their periphery and folded thereat so that their respective peripheries coincide, a small sharp pointed hook of circular cross section secured to the edge of one of the said discs, a series of fine upturned projections of the nature of teeth formed on the edge of the said discs, the said teeth on one disc being adapted to fit between the corresponding teeth on the other said disc.

1,685,264. AUTOMOBILE BODY. WILLIAM H. ATKINSON, Washington, D. C. Filed Apr. 29, 1926. Serial No. 105,483. 7 Claims. (Cl. 296—44.)



1. A motor vehicle body having a single doorway on either side, a door for said doorway comprising a door-member and an outer-frame, a seat adjacent said doorway, means co-operating with the parts of said door, whereby said doorway may be opened from substantially either jamb to permit access to said seat or to the rear of said seat depending upon the jamb from which said doorway is opened.

1,685,265. CLEANING IMPLEMENT. WILLIAM J. BARBER, Delphos, Ohio, assignor to The E. & N. Manufacturing Company, Delphos, Ohio, a Corporation of Ohio. Filed Sept. 19, 1925. Serial No. 57,351. 9 Claims. (Cl. 15—118.)



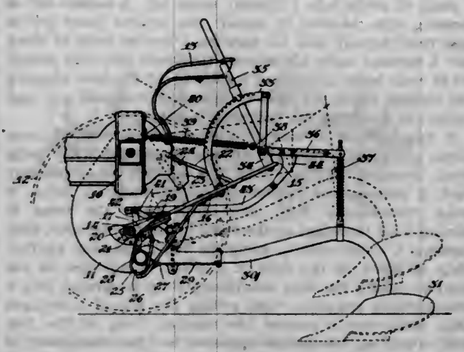
1. In a device of the character described, a handle having an attaching member provided with a projecting edge portion, a holder adapted to fit upon said attaching member and having a projecting edge portion adapted to lie alongside the projecting edge portion of the attaching member, a second holder having a portion adapted to grip said projecting edge portions to secure said holders together and to the attaching member, and a cleaning element carried by one of said holders.

1,685,266. PROCESS FOR HEATING LIQUIDS BY ELECTRICAL ENERGY FOR DISTILLATION, CONCENTRATION, PROVOCATION OF CHEMICAL REACTIONS, ETC. GUSTAV BAUM, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 15, 1925, Serial No. 62,603, and in Austria Oct. 28, 1924. 6 Claims. (Cl. 219—40.)



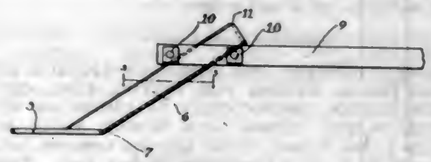
4. Process comprising absorbing liquid in a porous non-conducting material and passing an electric current through the liquid thus absorbed.

1,685,267. TRACTOR PLOW. BERT R. BENJAMIN, Oak Park, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 9, 1924. Serial No. 731,104. 13 Claims. (Cl. 97—47.)



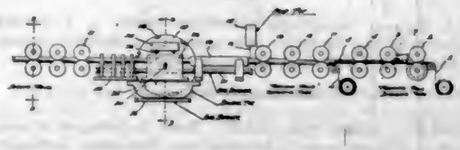
1. The combination with a tractor having an upwardly arched axle structure at the rear, of a rearwardly extending U-shaped frame extending across said arch and having its arms connected to the lower portions thereof, a draft bracket fixed on the under side of each of said arms and formed with a substantially vertical guide-way, a transverse draft bar with its ends mounted on said guide-ways, a rearwardly extending implement beam secured to said bar, a bell crank lifting lever mounted on the outer portion of the U-shaped frame with one arm connected to the rear of the implement beam, a secondary lever mounted on the forward portion of said frame and connected to the draft bar, and a link connecting the two levers for joint movement, whereby parallel movement is imparted to the ends of the implement beam.

1,685,268. CULTIVATOR BLADE. BERT R. BENJAMIN, Oak Park, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Oct. 25, 1926. Serial No. 143,846. 3 Claims. (Cl. 97—207.)



1. An earth working tool comprising a pair of contacting flat blades, the respective blades having oppositely beveled forward edges arranged in offset relation and end portions which are oppositely extended laterally at right angles, and dragbars clamped on the upper ends of the blades.

1,685,269. METHOD AND APPARATUS FOR MAKING TUBING. HARRY W. BUNDY, Detroit, Mich. Filed Oct. 16, 1926. Serial No. 141,955. 3 Claims. (Cl. 113—33.)

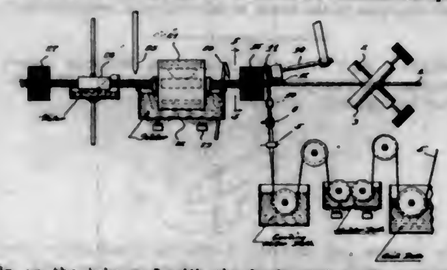


1. An apparatus for making multi-ply, longitudinally-drawn tubing, comprising a set of forming rolls for drawing a strip of stock into a tubular inner ply, a second set of forming rolls adapted to permit the tubular inner ply to pass therethrough and for forming a second strip of stock into a tubular outer ply around the inner ply, said second set of rolls being positioned forwardly of the first whereby the formed inner ply passes through the second set, and means for soldering the two plies together.

3. The method of making multi-ply tubing which comprises utilizing a plurality of supplies of flat strip metal stock, drawing the stock from the supplies simultaneously with a uniform rate of movement, rolling one strip of stock transversely into tube form while the same is moving with the edges of the stock in close proximity, thus forming a substantially complete tube, drawing another strip of stock to the first at a point in advance of the location where the first mentioned strip is formed into a substantially complete tube, rolling the second mentioned strip transversely around the tubular form of the first with a rolling movement opposite to that movement of the rolling of the first mentioned strip, whereby the longitudinal edges of the second strip are in close proximity and diametrically opposite the edges of the first mentioned strip, then securing the tubes together by molten sealing metal and preventing this molten sealing metal from entering in the inside of the tube in material quantities by reason of the longitudinal edges of the first mentioned strip being in close proximity.

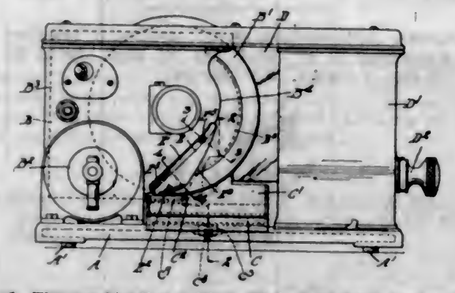
1,685,270. METHOD OF MAKING FINNED TUBING. HARRY W. BUNDY, Detroit, Mich. Filed July 14, 1927. Serial No. 205,594. 1 Claim. (Cl. 113—116.)

The method of making finned tubing which consists in moving a tube longitudinally, rotating the tube while it is so moving, drawing strip stock from a supply, bending this strip stock so that it is angular in cross section to provide an upright and a horizontal portion, crimping or corrugating the upright portion, winding this stock on the tube with the upright portion forming a continuous spiral



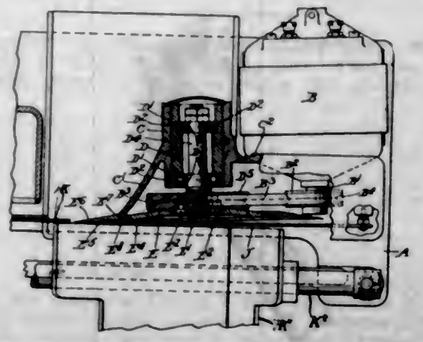
fin on the tube and with the horizontal portion directly engaging the body of the tube to form a spiral band on the tube.

1,685,271. SLICING MACHINE. WILLIAM J. CAMPBELL, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a Corporation of New York. Filed Nov. 26, 1926. Serial No. 150,712. 6 Claims. (Cl. 146—102.)



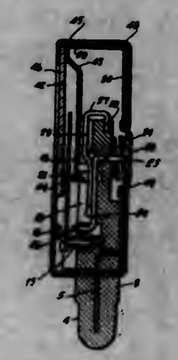
1. The combination with a slicing machine having a rotary knife and means for rotating it, of a slice receiving member and a guard for the edge of the knife, integral with said member and conforming generally to the arc of the edge of the knife, said guard extending across the breadth of said receiving member, rearwardly of said knife, and extending upwardly to general alignment with the knife edge.

1,685,272. SLICING MACHINE. WILLIAM J. CAMPBELL, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a Corporation of New York. Filed Sept. 19, 1927. Serial No. 220,610. 10 Claims. (Cl. 146—102.)



1. In a slicing machine, a rotary knife and means for rotating it, a guard plate positioned on the forward side of said knife and a guard plate positioned to the rear of said knife, both faces of said knife being recessed to receive the edges of said guard plates adjacent the side of the knife engaging the material being sliced, the recess in the rear face of the knife being concentric with but of lesser radius than the recess in the forward face of the knife.

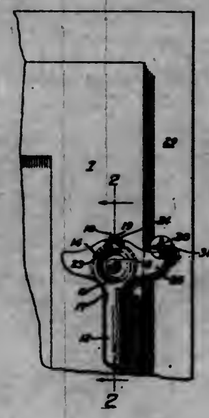
1,685,273. AIR-PRESSURE GAUGE. ALBERT E. CARLISS, Floral Park, N. Y., assignor to Acme Air Appliance Co., Inc., a Corporation of New York. Filed Sept. 30, 1927. Serial No. 222,966. 2 Claims. (Cl. 73—109.)



1. In a pressure gauge of the Bourdon tube type, an integral block of metal having a Bourdon tube attached at its base and a conduit passing through said block and leading from a source of air pressure to the base of said tube, an index hand pivotally mounted on said block, means operated by the movement of the said tube under air pressure to rotate said hand, a scale associated with said hand to indicate pressure as said hand traverses said scale, said block having a slot formed therein in a plane perpendicular and longitudinal with respect to said block, two other slots formed in said block in two parallel vertical planes perpendicular to said first mentioned plane, and a vertical aperture leading from that one of said slots farthest from the point of anchorage of the Bourdon tube, a pin mounted in said aperture and means for operating said pin manually, a crank lever bar having right-angular extensions at either end thereof to operate as crank levers, said bar being mounted in said longitudinal slot, so that one of said right-angular extensions will operate in one of said slots to be engaged by said pin, and the other in the other of said slots to engage said index hand, an elastic element in the nature of a spring rod secured to said block, said spring rod adapted to rest within said longitudinal slot to engage said crank lever bar so as to hold the same within said slot under tension, said pin adapted when manually operated to engage one of said extensions of said crank lever bar to rotate said bar, and the other crank arm adapted to engage said index hand to throw the same back to zero position with respect to said index.

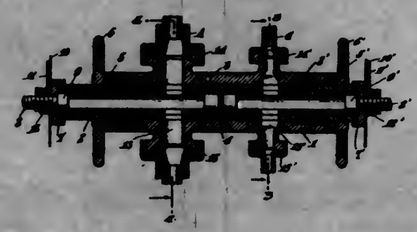
1,685,274. LATCH. OTTO P. CRAMER, San Francisco, Calif. Filed June 18, 1927. Serial No. 199,641. 3 Claims. (Cl. 292—204.)

1. A door latch comprising a latch pin adapted to be adjustably fixed to the door casing; a headed pivot pin adapted to be fixed to the door; and a reversible body mounted for pivotal movement on said pivot pin and comprising an operating handle, a shoulder for limiting the movement of the body, wings on opposite sides of the body for engaging the latch pin, a boss for spacing the body



from the door, and a spring interposed between the body and the door for urging the latch into position of engagement.

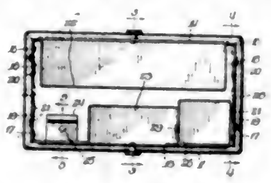
1,685,275. CONTROL VALVE FOR GASEOUS-FUEL BURNERS. HARRY H. DODGE, Green Island, N. Y. Filed Feb. 25, 1926. Serial No. 90,698. 3 Claims. (Cl. 277—1.)



1. In a valve of the class described, a valve body provided with a longitudinal bore and a plurality of transverse gas passages extending through said body, a non-rotatable member within said bore provided with openings adapted to align with gas passages, means for moving said member longitudinally, another member within the bore and provided with openings adapted to align with the gas passages in the body and the openings in the first member, said second member being divided into two parts, means for preventing passage of gas between the parts, and means for independently rotating each part of said second member.

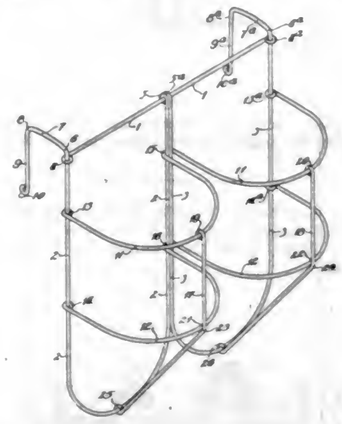
2. In a valve for gas burners, a valve body provided with a longitudinal bore, a plurality of transverse gas passages extending therethrough, a sleeve within said bore provided with openings adapted to align with the gas passages, said sleeve being divided into two parts separated by a gas-tight flexible joint and means for independently rotating each part of the sleeve.

1,685,276. RECEPTACLE. FRED H. DOERR, Grand Haven, Mich., assignor to American Brass Novelty Co., Grand Haven, Mich., a Corporation of Michigan. Filed Apr. 25, 1925. Serial No. 25,739. 4 Claims. (Cl. 220—32.)



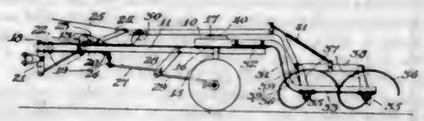
1. In a receptacle, a fixed base, top and ends, a movable side having inwardly extending ears, pivots carried by fixed receptacle members, the ears engaging the pivots, and the ears further frictionally engaging the fixed receptacle members to maintain the movable side in adjusted position.

1,685,277. FRAME AND HOLDER FOR SLIPPERS AND OTHER ARTICLES. MARY ETTA DAYDEN, Chicago, Ill. Filed Dec. 12, 1927. Serial No. 239,602. 2 Claims. (Cl. 211—35.)



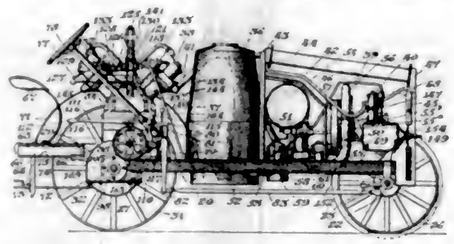
1. A holder frame comprising U-shaped members respectively provided at the ends of the longer ones of the parallel elements thereof with means to engage with horizontal members of determined articles, in combination with members joined to said U-shaped members and respectively provided with a plurality of curved elements, and additional members joined at their ends to one of said curved elements and to the curved elements of said U-shaped members.

1,685,278. COMBINED DISK AND TOOTHED HARROW. WILLIAM C. DWYER, Auburn, N. Y., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 31, 1923. Serial No. 671,862. 5 Claims. (Cl. 55—81.)



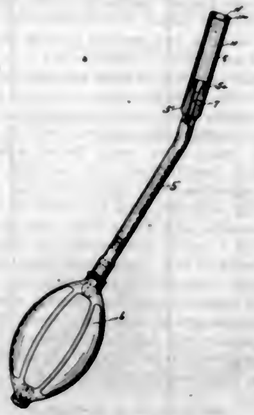
1. A compound harrow comprising a frame, angularly adjustable gangs of harrow disks, a series of harrow teeth mounted on the frame behind the disk gangs and extending across the path thereof, means carried by said frame for supporting said teeth, said means being rotatable with respect to the frame to permit movement in a vertical plane of the points of the teeth relatively to the frame, and means on the frame common to the disk gangs and the harrow teeth for simultaneously shifting the disk gangs horizontally and the teeth vertically and comprising a slidable draft head on the forward end of the frame movable back and forth by draft power, means for connecting said draft head to the disk gangs and separate adjustable means for connecting the draft head to the supporting means for the harrow teeth, said draft head being operable to simultaneously straighten the disk gangs and lift the harrow teeth and to simultaneously angle the disk gangs and lower the harrow teeth.

1,685,279. TRACTOR. GUSTAF W. ENGSTROM, Riverside, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed July 28, 1922. Serial No. 578,071. 10 Claims. (Cl. 180—67.)



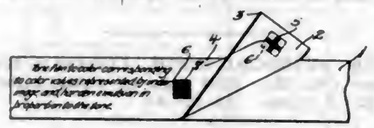
1. In combination, front and rear supporting wheels, a rear axle housing carrying a prime mover on the rear wheels, frame members supported at one end on the rear axle housing beneath the prime mover and at the other end on the front wheels, a boiler supported on the frame in front of the prime mover, a condenser mounted on the frame in front of the boiler, and means for returning condensed steam from the condenser to the boiler.

1,685,280. POWDER-PLACING SYRINGE. LESTER L. FINDLEY, Los Angeles, Calif. Filed July 16, 1927. Serial No. 206,324. 5 Claims. (Cl. 128—205.)



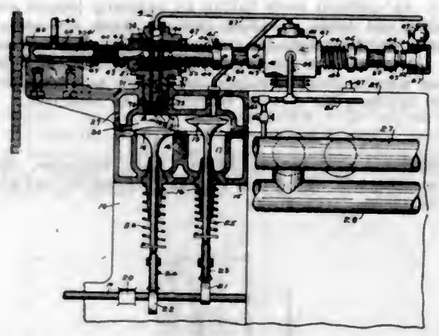
1. In combination, a syringe body or tube adapted to receive a capsule, a capsule adapted to fit telescopically the end of said tube, and detachable means for securing said capsule in place on said tube with both ends open, and means forming a part of said syringe for forcing a blast of air through said tube and said capsule for discharging the contents of said capsule.

1,685,281. PRODUCTION OF COLORED PHOTOGRAPHS. WILLIAM FRANCIS FOX, New York, N. Y., assignor to Natural Color Pictures Company, Inc., New York, N. Y., a Corporation of Delaware. Filed June 22, 1920. Serial No. 390,901. 7 Claims. (Cl. 95—2.)



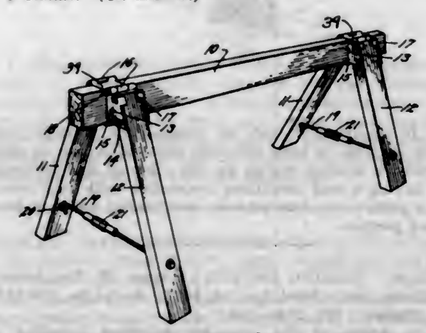
1. A photographic process comprising, printing a positive image and a negative image of the same object in alignment in a single coating of sensitive emulsion on one side of a suitable base, with unaffected emulsion separating said images, said positive image being undermost, toning both images one color and hardening the emulsion material in proportion to the amount of tone, and dyeing the film with a dye of a second color, adapted to act most vigorously on the soft portions of the film.

1,685,282. HYDROCARBON ENGINE. JOHN E. FULLER, Hartsville, S. C. Filed Jan. 18, 1926. Serial No. 81,957. 14 Claims. (Cl. 123—32.)



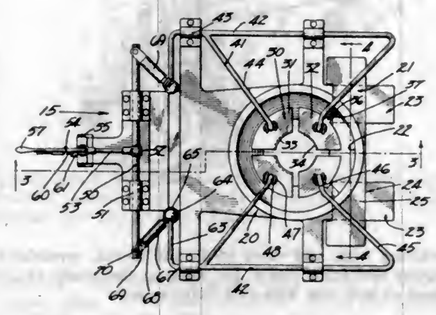
1. In a fuel injection device for an internal combustion engine, a valve comprising a plug revoluble in a casing, said plug having a passage through it perpendicular to its axis of rotation, and having a relatively large longitudinal passage; said first mentioned passage comprising a tube which crosses the longitudinal passage, but enough smaller in diameter to avoid obstructing the latter, and means for introducing fuel to said tube and lubricant to said longitudinal passage.

1,685,283. COLLAPSIBLE TRESTLE. JAMES P. GIBSON, Denver, Colo. Filed Mar. 17, 1927. Serial No. 175,994. 3 Claims. (Cl. 304—5.)



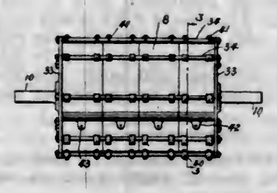
1. Collapsible trestle legs adapted to support a cross piece comprising a pair of legs; a hinge connecting said legs with each other at their one extremity; projections for maintaining said legs at an angle to the faces of said cross piece; and means for causing said legs to approach each other at their other extremities so as to cause said projections to be clamped against said cross piece.

1,685,284. SPIDER HAVING MECHANICALLY-OPERATED PIPE SLIPS. JOHN A. HARDING, Maricopa, Calif. Filed May 21, 1927. Serial No. 193,369. 9 Claims. (Cl. 24—263.)



1. In a device of the nature disclosed, the combination of: a body having a vertical bore formed to define a conical seat; a plurality of slips engaging said conical seat; slip carriers connected to said slips, each of said slip carriers having a rock-shaft journaled on said body and each of said rock-shafts being provided with a crank-arm; an operating-shaft journaled on the body; link connections pivotally connected directly to said operating-shaft and said crank-arms; and means for operating said operating-shaft to rock said carriers and elevate the slips.

1,685,285. GRAVITY WATER MOTOR. MILTON D. HAYS, Overbrook, Pa. Filed Oct. 31, 1924. Serial No. 747,093. 12 Claims. (Cl. 170—111.)

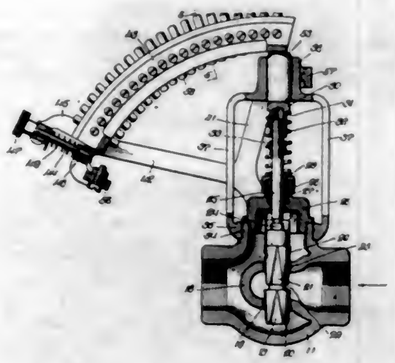


1. For use in a water motor a water wheel comprising a central shaft, end plates on said shaft, a plurality of bars disposed parallel to said shaft and arranged for attachment to the end plates, and a plurality of mutually independent buckets secured to said shaft and to said bars.

1,685,286. FLUID-PRESSURE-CONTROL VALVE. JOHN M. LARSON, Chicago, Ill., assignor to National Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1921. Serial No. 513,541. 10 Claims. (Cl. 137—153.)

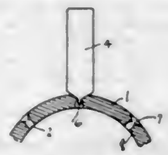
6. In a device for governing the supply of motive fluid to an engine in accordance with the load imposed thereupon and which comprises a balanced valve, a stem on

said valve, a spring normally tending to keep said valve open, an oscillatable yoke member pivotally mounted on said valve, an adjustable cam mounted on said yoke and



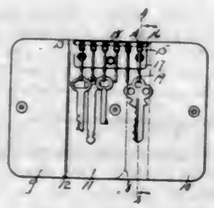
contacting with said valve stem, and means, comprising a spring-restrained screw for altering the angle of incidence of said cam with said valve stem.

1,685,287. PROCESS OF FORMING WELL STRAINERS. JOSEPH H. MCEVOY, Jr., Houston, Tex. Filed Nov. 17, 1925. Serial No. 69,567. 1 Claim. (Cl. 29—163.5.)



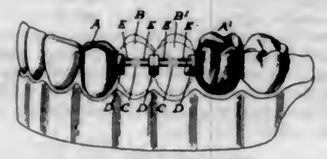
A method of forming strainer openings in well pipe comprising cutting longitudinal slots in said pipe, inserting a gauge of its desired width in said slots, and then upsetting the sides of said slots from the outer side to work the metal of the pipe inwardly to constrict the width of the slot about said gauge, said gauge acting to regulate the width of the constricted opening thus formed.

1,685,288. KEY CASE. ARTHUR H. MERRILL, Hartford, Conn. Filed Dec. 12, 1923. Serial No. 680,070. 3 Claims. (Cl. 150—40.)



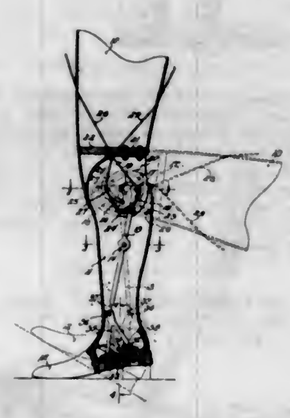
1. A key case formed of flexible material and embodying two flat sections with one side edge of the first section secured to the second section at a point intermediate its opposite side edges and with a portion of the second section overlying the first section to form a pocket for a key supported by one of the sections, the outer portions of the two sections being foldable to cover keys suspended on the back of the first section opposite to the first named flap.

1,685,289. ARTIFICIAL TEETH. CLEMENT G. MILLER, Kansas City, Mo. Filed Sept. 18, 1925. Serial No. 57,152. 3 Claims. (Cl. 32—9.)



1. An artificial tooth having an angularly shaped side socket and bores extending inwardly from the socket, and a metal retainer comprising a body portion seatable in said socket and spaced pin elements integral with the body portion projectable into said bores, said body portion having a flat face for soldering to an abutment.

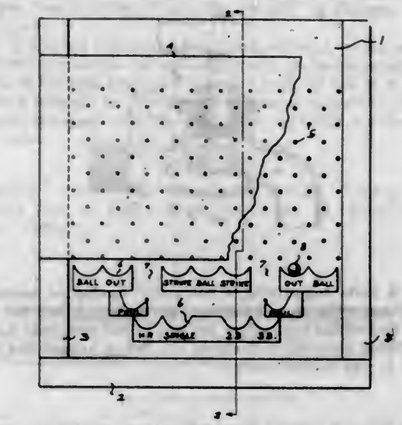
1,685,290. ARTIFICIAL LIMB. KARL NEUMANN, Milwaukee, Wis. Filed Oct. 27, 1926. Serial No. 144,440. 10 Claims. (Cl. 3—2.)



1. In an artificial limb the combination of thigh and shank portions, a lever rockably mounted in one of said portions, a bracket carried by the other of said portions and having a load sustaining connection with said lever, and a guide connection between said bracket and said first named portion.

1,685,291. GAMING DEVICE. ROBERT M. NICHOLSON, Liberty, Tex. Filed Apr. 18, 1927. Serial No. 184,547. 3 Claims. (Cl. 273—138.)

1. A device of the character described including a declining field board, having a plurality of series of pockets disposed transversely across the board, projections upstanding from the board all of which are arranged above the pockets and spaced apart to provide



passageways for a ball between them and an apron carried by the board over said projections and above the pockets.

1,685,292. DISPENSING CONTAINER AND METHOD OF DISPENSING ARTICLES THEREFROM. JOHN B. OHLSON, Chicago, Ill., assignor to The Vortex Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 18, 1924. Serial No. 744,341. 9 Claims. (Cl. 312—43.)

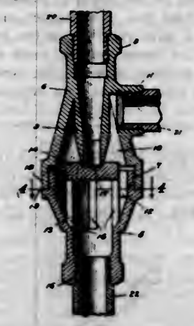


1. The combination with a container adapted to have a stack of nested articles contained therein, stationary relative to said container, a hinged member engaging the endmost article of the stack, and means supporting said hinge member and forming a part of said container and automatically movable relative thereto as individual articles are successively removed therefrom.

1,685,293. ATOMIZING DEVICE. ROY B. PAULL, Seattle, Wash. Filed Feb. 7, 1927. Serial No. 166,397. 1 Claim. (Cl. 261—75.)

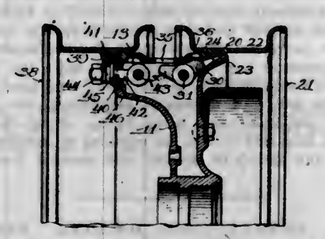
An atomizing device comprising a female member having a conical recess therein, a supply nozzle for said member projecting into said recess, a male member having a conical recess therein, a discharge nozzle for the male member projecting into its recess and having spaced side

slots, the recesses in the male and female members adapted to conjointly form a mixing chamber, a solid head for the discharge nozzle having a recess therein, the end of the



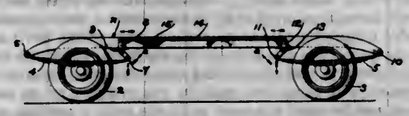
supply nozzle projecting into said recess in slight spaced relation therewith, and means for entry of a reducing medium for the mixing chamber.

1,685,294. MOTOR-TRUCK WHEEL. JOHN D. RAUCH, Lima, Ohio. Filed Sept. 18, 1926. Serial No. 136,209. 2 Claims. (Cl. 301—13.)



1. In a dual tire wheel, a hub and radiating spokes, a pair of tire rims adapted to be demountably secured on the ends of said spokes from the outer side of said wheel, each of said spokes having an outwardly facing bearing surface with a thrust shoulder along the inner side thereof for engagement with the inner tire rim, rocking pawls mounted on said spokes and movable into and out of locking engagement with the outer side of said inner tire rim when the latter is in mounted position, lugs movably attached at the outer side of said spokes for clamping engagement with the outer tire rim, and a removable spreader ring adapted to fit over the ends of said spokes between said tire rims, said spreader ring having engagement with said rocking pawls to hold them in locked position.

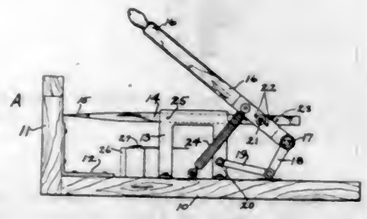
1,685,295. VEHICLE SUSPENSION. CHARLES F. RODIN, San Francisco, Calif., assignor to California Six Wheel Company, Oakland, Calif., a Corporation of California. Filed May 24, 1926. Serial No. 111,097. 2 Claims. (Cl. 280—104.)



1. In a vehicle suspension of the character described, a main frame, a front and a rear wheel, supporting the frame, a semi-elliptical spring interposed between each

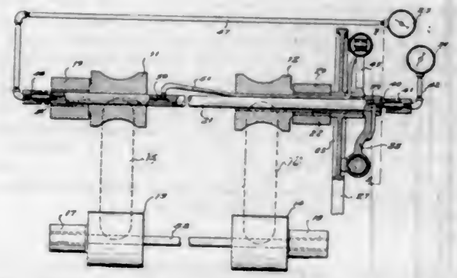
wheel and the frame, a pivotal connection between one end of each spring and the frame, a pair of bell-cranks pivotally attached to the frame, one adjacent the front spring and one adjacent the rear spring, said bellcranks having their lower ends disposed on an angle of substantially 45° with relation to the frame and their upper ends, substantially vertically arranged with relation to the frame, a link pivotally connecting the upper vertical ends of the bellcranks, and a pivotal connection between the lower angularly disposed end of each bellcrank and an adjacent spring.

1,685,296. MACHINE FOR OPENING OYSTERS. OTTO SCHENK, Dayton, Ohio, assignor to Carl R. Balls and Clarence N. Stemper, Dayton, Ohio. Filed Dec. 27, 1920. Serial No. 433,206. 2 Claims. (Cl. 17—9.)



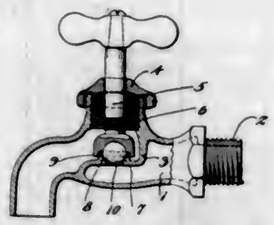
1. A machine for opening oysters, comprising a movable knife, an abutment against which to hold an oyster while its shell is opened with the knife, a spring constantly tending to move the knife toward the abutment, and a manual operating member whereby to move the knife to and fro with reference to the abutment, said member having a large range of movement relative to the distance moved by the knife, and being heavy enough to enable momentum imparted to it by the operator to supplement the action of the spring in moving said member toward the abutment.

1,685,297. BRAKE-TESTING MACHINE. WESLEY K. SHONE, Los Angeles, Calif. Filed Apr. 19, 1927. Serial No. 184,956. 2 Claims. (Cl. 265—25.)



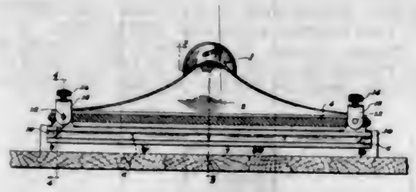
1. In a brake testing apparatus, a roll for imparting motion to a wheel, a shaft to which the roll is fastened, an arm fastened to the shaft, a rotatable driving wheel having an axis coincident with that of the shaft, a fluid pressure cylinder having its axis at an angle to that of the shaft and at a distance from the axis of the shaft, said cylinder connecting the arm and the driving wheel whereby rotation of the wheel will cause the fluid in the cylinder to be compressed and to exert a torque upon the arm, a conduit connecting the cylinder with an axial bore in the shaft, a tube fastened in the bore, a stationary packing in which the tube rotates as the shaft is driven, and a pressure responsive indicator connected to the packing chamber.

1,685,298. VALVE. EDWARD U. SIENA, Cleveland, Ohio. Filed Sept. 21, 1927. Serial No. 221,007. 15 Claims. (Cl. 251—139.)



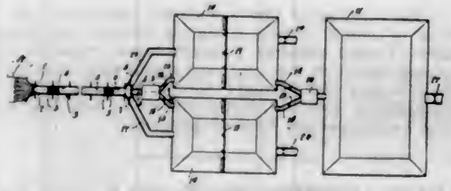
4. A valve comprising, a valve seat having an upstanding flange with an exterior conical surface, a ball for the seat, and means for holding the ball in the seat, said means also being adapted to contract the flange around the ball after it has become worn.

1,685,299. VACUUM-CLEANER ATTACHMENT. WALTER S. SIMPSON, Canton, Ohio, assignor to The United Electric Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 20, 1926. Serial No. 130,534. 1 Claim. (Cl. 15—158.)



In combination with a nozzle provided with ends and having a mouth rim, an attachment for engagement with said rim and having floor engaging means, balls pivoted upon the attachment for engagement over the ends of the nozzle and means upon the balls for clamping engagement with the nozzle.

1,685,300. PROCESS AND APPARATUS FOR TREATING POLLUTED ACID WASTES. JOHN T. TRAVERS, Columbus, Ohio, assignor, by direct and mesne assignments, to The Travers-Lewis Process Corporation, Columbus, Ohio, a Corporation of Ohio. Filed June 21, 1927. Serial No. 200,491. 7 Claims. (Cl. 210—9.)

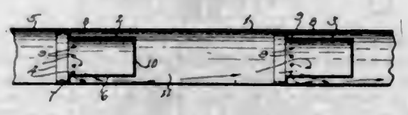


1. A process for treating polluted acidified liquid wastes comprising passing the liquid waste through porous calcium carbonate and maintaining the time period of contact between the waste and the porous calcium carbonate in excess of two minutes and less than five minutes.

1,685,301. TREATMENT OF POLLUTED WASTES. JOHN T. TRAVERS, Columbus, Ohio, assignor, by direct and mesne assignments, to The Travers-Lewis Process Corporation, Columbus, Ohio, a Corporation of Ohio. Filed July 9, 1928. Serial No. 291,381. 4 Claims. (Cl. 210—9.)

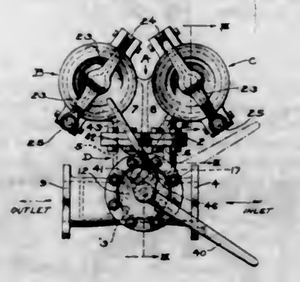
1. A method for treating acidified polluted waste water comprising causing the polluted waste water to enter the pores of calcium carbonate characterized by the fact that it has a porosity substantially the same as travertine in its natural state and be subjected to the neutralizing action of the latter.

1,685,302. MUFFLER. HARVEY E. TYLER, Chicago, Ill. Filed June 13, 1925. Serial No. 36,911. 1 Claim. (Cl. 137—160.)



A device of the type described comprising a casing, a relatively long cup-shaped member having an open end, a closed end, and a plurality of openings circumferentially disposed adjacent the open end, a relatively short enlarged portion rigidly secured to the inner wall of said casing, and a partition connecting said enlarged portion to said relatively long cup-shaped member, said cup-shaped member being adapted to cause gases of combustion to back up on themselves and pass through said openings, said cup-shaped member being disposed in close proximity to the inner wall of said casing, whereby the gases of combustion passing through the openings will be held against the inner wall of said casing and become cooled.

1,685,303. DUPLEX OIL STRAINER. JOSEPH T. VOORHEIS, Oakland, Calif., assignor to Coen Company, San Francisco, Calif., a Corporation of California. Filed Jan. 28, 1925. Serial No. 5,232. 3 Claims. (Cl. 277—19.)



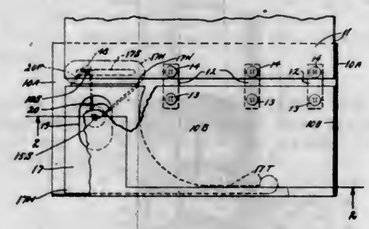
1. A valve mechanism for regulating the flow of a liquid through two separate strainer-containing cylinders, said valve mechanism comprising a cylinder having a pair of ports formed therein adapted to communicate with the upper ends of the respective strainer cylinders, and a second pair of ports adapted to communicate with the lower ends of the respective strainer cylinders, said valve cylinder also having inlet and outlet connections in communication with the respective ports to permit inflow and discharge of the liquid to be strained, a shaft in the valve cylinder and extending through one end thereof, a pair of valves on the shaft cooperating with the respective pairs of ports to open and close the same, means for transmitting a turning movement to the shaft to cause the valves to swing into or out of alignment with the respective ports and a removable partition member in the cylinder between the valves and dividing the valve cylinder into upper and lower compartments.

1,685,304. ASPHALTIC MATERIAL AND METHOD OF PREPARING SAME. WILLIAM C. WEST, Louisville, Ky., assignor to West Process Pavement Company, Incorporated, Louisville, Ky., a Corporation of Kentucky. Filed Mar. 26, 1926. Serial No. 97,767. 6 Claims. (Cl. 106—31.)

1. The process of preparing asphaltic road material for storage and shipment the asphalts of which are adapted to be converted to an asphaltic cement on the job by blending, which comprises mixing mineral aggregate with hard asphalt in a powdered form in insufficient quantity to provide the required percentage of asphaltic cement, said mixing being carried out at a temperature below that at which the hard asphalt blends with a soft asphalt, and then adding semi-liquid asphalt or asphaltic flux to bind the powdered asphalt particles on the surface of the aggregate, the quantity of semi-liquid asphalt or asphaltic flux being sufficient to provide the desired percentage of asphaltic cement when blended with the hard asphalt by heating.

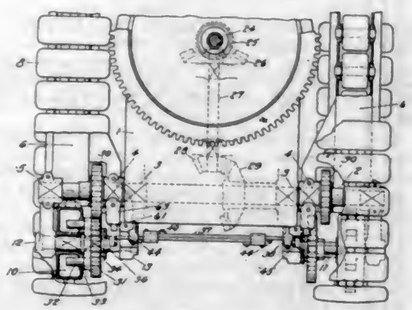
5. A composition of matter adapted for shipping, said composition comprising a loose, granular, non-compacted mass of graded mineral aggregate, a coating of powdered hard asphalt particles on the granules of said aggregate, and a coating of asphaltic flux binding said coating of powdered hard asphalt to the aggregate.

1,685,305. CUFF CONSTRUCTION. JOHN H. ANDERSON, St. Paul, Minn. Filed May 20, 1927. Serial No. 192,827. 3 Claims. (Cl. 2—123.)



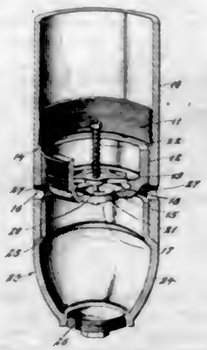
2. A soft cuff comprising a quadrangular piece of soft material and folded to form adjoining inner and outer elongated flaps said inner flap narrower than the outer flap, means for connecting the said folded cuff ends comprising registering buttonholes for a cuff link, a shank button for connecting the ends of the wrist band, and means for bracing and tautening the cuff at its folded end portions and extending toward the center part of the cuff, said cuff bracing and tautening device comprises for each end of the cuff a stay of flat pliable material arranged to lie between the folds of the cuff, and a vertical aperture provided in said stay and through which the cuff link is passed and a tension element on each stay engaging its top part above the cuff link shank extending from the outer part of the upper head portion thence inwardly and over the shank of the wrist band button, thence upwardly to the inner and upper part of the stay, to press the stay downwardly, the lower part of the stay forming an elongated base engaging in the folded part of the cuff.

1,685,306. STEERING APPARATUS FOR MOTOR-DRIVEN VEHICLES. EDWIN J. ARMSTRONG, Erie, Pa., assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 29, 1921. Serial No. 496,469. 28 Claims. (Cl. 180—9.2.)



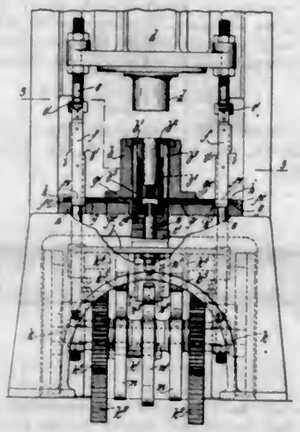
1. In an apparatus of the class described, the combination of a frame; a turn table on the frame; driving wheels for the apparatus at each side of the frame; driving mechanism for the wheels; and means controlled by the movement of the turn table compelling the driving mechanism to vary the relative driving action on the wheels to steer the apparatus.

1,685,307. CEMENTING AND FLOATING SHOE. REUBEN C. BAKER, Coalinga, Calif., assignor to Baker Casing Shoe Company, a Corporation of California. Filed May 11, 1927. Serial No. 190,456. 1 Claim. (Cl. 166—1.)



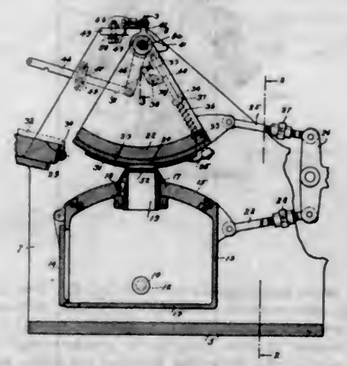
A cementing and floating plug for well casings comprising a cylindrical shoe formed of comparatively indestructible material, a valve structure including a valve cage threaded into said shoe, said valve cage having an opening formed therethrough, a downwardly opening valve controlling said opening, a guide member threaded into the bottom of said shoe and depending downwardly therefrom, the valve structure and guide being formed of friable material whereby they may be broken out after use, said cylindrical shoe having openings formed therethrough intermediate the valve structure and the guide to permit fluid passing through the valve structure to discharge.

1,685,308. PROCESS FOR DRAWING SHEET METAL. GEORGE WILLIAM BERRY, Leeds, England, assignor of one-half to Charles Joseph Rhodes, Wakefield, England. Filed Mar. 19, 1925, Serial No. 16,670, and in Great Britain May 27, 1924. 11 Claims. (Cl. 113—38.)



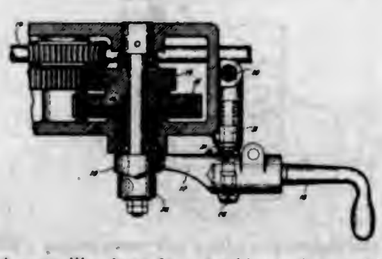
1. In a draw press, a die including a stationary member and a plurality of drawing members movable longitudinally relative to the stationary member and each other, a die movable toward and away from the stationary and drawing members and co-operating therewith to effect a drawing operation in successive stages, slides mounted to have movement transversely toward each other into the path and obstruct the movement of a drawing member and away from each other out of obstructing position, means carried by and participating in the movement of the movable die co-operating with said slides to move said slides at a predetermined point in the movement of the movable die in the drawing operation out of obstructing position and during the receding movement of the movable die to move said slides to and retain them in obstructing position.

1,685,309. DIEING-OUT MACHINE. EDWARD R. BOYLAN, Los Angeles, Calif. Filed Apr. 2, 1927. Serial No. 180,582. 9 Claims. (Cl. 164—21.)



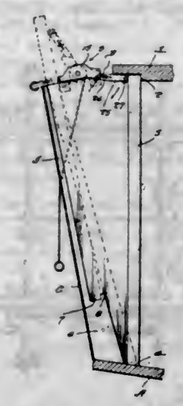
3. A dieing out machine comprising a frame, a die pivoted on said frame, a platen pivoted on said frame opposite said die with its surface opposed to said die, a reciprocative cross head, and links connected to said cross head and to said die and said platen respectively.

1,685,310. CONTROLLING LEVER FOR MACHINE TOOLS. EDWARD P. BURRELL, Shaker Heights, and GEORGE W. DRAKE, Cleveland Heights, Ohio, assignors to The Warner and Swasey Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 3, 1926. Serial No. 145,991. 15 Claims. (Cl. 74—39.)



1. A controlling lever for a machine tool comprising an inner part and an outer part, the inner part having a transversely movable locking member and the outer part being rotatably supported by the inner part to turn about an axis lengthwise of the inner part and having a portion which actuates the locking member when turned in one direction relative to the inner part.

1,685,311. VENTILATING SASH. CHRIS A. CHRISTIANSON, Ulen, Minn. Filed Nov. 11, 1927. Serial No. 232,625. 5 Claims. (Cl. 98—88.)



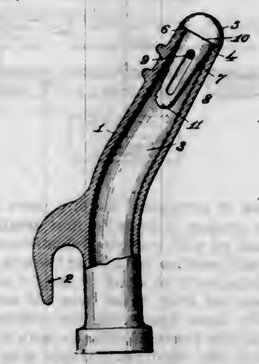
1. In a ventilating sash in association with the usual window frame and a conventional window rain shield, a jamb board secured to the window frame, a tiltable sash adapted to have its upper edge portion bear against the board, the lower edge of the sash to be supported upon the window sill, a pair of tapering rest strips secured to the side walls of the rain shield and against which the sash is adapted to rest when in tilted position, and tensional means for maintaining the sash rigidly in tilted position.

1,685,312. RIPPING UNIT FOR METAL CANS. ABBOTT L. COMBES and HARRY M. KEYSER, East Falls Church, Va. Refiled for abandoned application Serial No. 748,718, filed Nov. 8, 1924. This application filed June 8, 1926. Serial No. 114,575. 1 Claim. (Cl. 220—49.)

The combination with a can body, and a lid crimped upon the can body, the lid being provided with a sunken portion extending into the can body and including a wall at the bottom of said sunken portion, of a carrier ring embracing said sunken portion and initially inserted into the can body with said sunken portion, the outer margin of said ring being interfolded in said crimp for securing the ring within the can body as the lid is secured to said body, the inner margin of said ring being bent to form a channel providing a stop disposed to abut said wall of the lid for initially locating the ring on the lid, and a ripping element held in said channel and operable to rip a wall of the can, said ring and element providing a separate ripping unit.

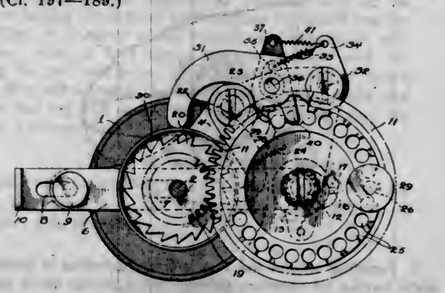


1,685,313. DEFLECTOR FOR GASOLINE-HOSE NOZZLES. RICHARD M. DAVIS, West Pittston, Pa. Filed Aug. 1, 1927. Serial No. 209,748. 2 Claims. (Cl. 137—111.)



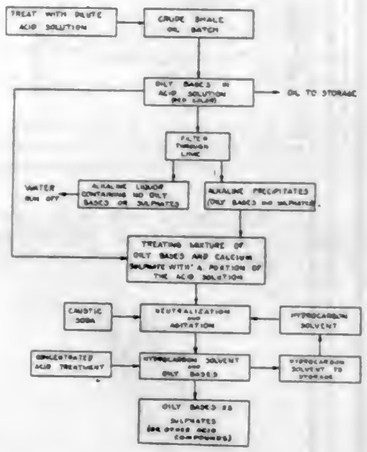
1. A gasoline hose nozzle in combination with a deflector therefor, comprising a head adapted to fit over the end of the nozzle and a stem projecting into the nozzle, said stem being provided with a longitudinally disposed slot and a retaining pin extending through said slot, substantially as described.

1,685,314. BOTTOM MARGIN SPACER FOR TYPEWRITERS. RICHARD M. DAVIS, West Pittston, Pa. Filed Aug. 19, 1927. Serial No. 214,008. 7 Claims. (Cl. 197—189.)



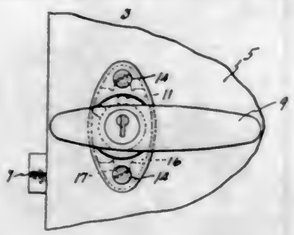
1. In a typewriter, the platen and platen shaft, in combination with a pinion on said shaft, a shiftable member, a gear mounted on said shiftable member and adapted, when the said member is shifted to be moved into and out of mesh with said pinion, a stop adapted to be selectively mounted on said gear, a notched member on the platen shaft, and a pivotally mounted dog adapted to be moved by said stop into engagement with said notched member to lock the platen, substantially as described.

1,685,315. PROCESS OF EXTRACTING THE OILY BASES FROM CRUDE SHALE OIL. DAVID T. DAY, Washington, D. C.; Fred J. Goble administrator of said David T. Day, deceased. Filed Dec. 11, 1924. Serial No. 755,316. 6 Claims. (Cl. 260—25.)



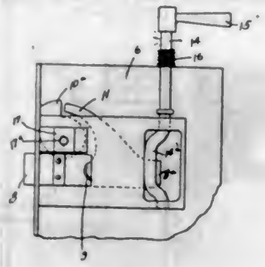
1. The process of extracting the oily bases from crude shale oil which process consists in first treating a body of the crude shale oil with a dilute inorganic acid solution, separating the acid solution containing the oily bases from the oil, neutralizing with an alkali to effect a precipitation of the oily bases and other bases from the acid solution, collecting the oily bases apart from the resultant alkaline solution, treating the precipitated bases with an inorganic acid, neutralizing the resultant mixture with an alkali, agitating said mixture with a hydrocarbon solvent, drawing off the resultant solution from the alkaline aqueous solution, and extracting the oily bases from said resultant solution with an inorganic acid used as the extracting medium.

1,685,316. LOCK-SHAFT-SECURING MEANS. WILLIAM C. DEVEREAUX, Detroit, Mich. Filed Dec. 13, 1926. Serial No. 154,370. 2 Claims. (Cl. 292—348.)



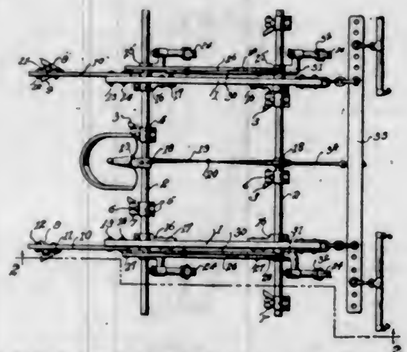
1. Securing means for lock shafts including a metallic plate having an aperture therein and a radial notch opening into the aperture, a lock shaft extending through the aperture and carrying a locking plate having a radial ing adapted to pass through said notch and engage the inner face of said plate, and means surrounding the lock shaft to cover the aperture including an escutcheon plate secured to said metallic plate, a handle mounted on the projecting extremity of the lock shaft, a spacer tube surrounding the lock shaft between the handle and escutcheon plate, and a spring arranged between the spacer tube and locking plate to press the locking plate inwardly.

1,685,317. LATCHING MEANS FOR DOOR-LOCK HANDLES. WILLIAM C. DEVEREAUX, Detroit, Mich. Filed May 4, 1927. Serial No. 188,720. 5 Claims. (Cl. 292—348.)



1. The combination with a lock casing having a lock bolt and actuating cam therefor provided with a polygonal aperture, of a fixed locking plate having a polygonal aperture therein and a rotatable handle shaft having a polygonal rear portion adapted to fit within the aperture in the cam and a circumferentially grooved portion adapted to normally extend through the aperture in the locking plate, the walls of the apertures in the cam and locking plate being angularly disposed relatively to each other while the cam and lock bolt are in their locked positions.

1,685,318. COTTON-CHOPPING MACHINE. JOHN SAMUEL ELDER, Grandfield, Okla. Filed July 26, 1927. Serial No. 208,489. 4 Claims. (Cl. 97—23.)

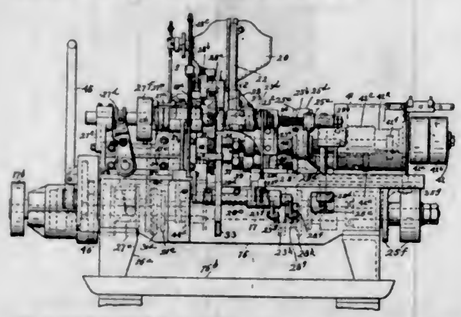


1. A plant thinning machine comprising parallel runners, beams mounted transversely of the runners and relative to which said runners are adapted to be adjusted longitudinally, means for retaining the runners and beams in adjusted position, spaced cutting devices attached to the beams and transport means for said machine carried thereby.

4. A plant thinning machine comprising parallel runners, beams mounted transversely of the runners and relative to which said runners are adapted to be adjusted longitudinally, means for retaining the runners and beams in adjusted position, spaced cutting devices attached to the beams and adjustable thereon longitudinally and vertically, and transport means for said machine carried thereby.

1,685,319. METAL-WORKING MACHINE. HARVEY C. ERDMAN, Shaker Heights, Ohio, assignor to The National Screw and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 19, 1925. Serial No. 69,967. 19 Claims. (Cl. 29—38.)

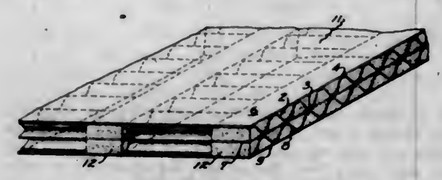
1. A metal working machine having a plurality of tools including a pair of countersinking tools and a drilling tool, the countersinking tools being adapted to form countersinks in the blanks of greater diameter than the diameter of the bore formed therein by the drilling tool and means for presenting the blanks successively to the two countersinking tools so that the blank will be countersunk at opposite ends, and then to the drilling tool.



5. A metal working machine comprising a turret having a plurality of chucks, tools movable toward and from the turret, blank delivery means, a chuck which receives each blank before it is delivered to the turret chucks, said chuck having a fixed position at one side of the turret, a rotating tool movable on a fixed axis toward and from the last-mentioned chuck and having an operative stroke in a direction opposite to the operative strokes of the first-mentioned tools, and a transfer means for carrying the blanks from the last-mentioned chuck laterally into alignment with a chuck of the turret.

15. The method of machining blanks which comprises moving them to different stations and at the different stations, countersinking a blank at one end, countersinking it at the other end, and drilling a bore through the blank from the latter end of less diameter than the diameters of the countersinks, the said operations while performed successively upon each blank being performed simultaneously on different blanks.

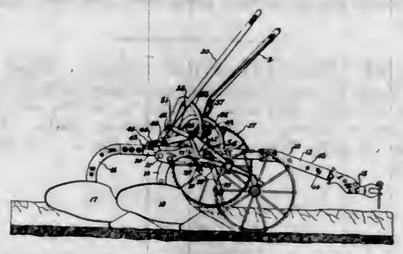
1,685,320. INSULATING BOARD. DOZIER FINLEY, Berkeley, Calif, assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Aug. 10, 1927. Serial No. 212,009. 9 Claims. (Cl. 154—45.)



1. An insulating board comprising a sheet of corrugated paper, a layer of plane paper on each side of the corrugated paper, and a filler between said layers and across the furrows of the corrugated sheet.

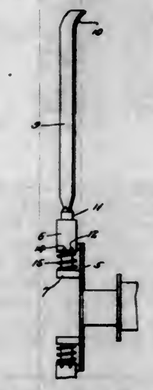
1,685,321. SELF-LEVELING WHEELED PLOW. JOHN H. GROENKE, Canton, Ohio, assignor to The Bucher & Gibbs Plow Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 22, 1927. Serial No. 214,585. 5 Claims. (Cl. 97—73.)

1. An agricultural implement including a frame, a pair of crank axles each mounted at its upper shaft end for oscillation on the frame, a land wheel journalled at the lower end of one of the crank axles, a furrow wheel journalled at the lower end of the other crank axle, a crank arm rigidly mounted on the upper shaft end of each axle, a rigid link having a slot and pin connection at one of its ends with one of the crank arms and at its other end with the other crank arm, a lever pivotally mounted on the link, a connecting bar pivotally connected at one of its ends with the lever and at its other end with one of the crank arms, and means for selectively varying and securing the angular relationship between the link, the lever, and the bar.



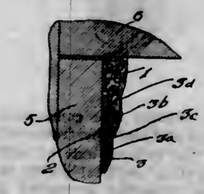
1,685,322. [WITHDRAWN.]

1,685,323. ENGINE-COOLING FAN. PETER V. HANSEN, Salem, S. Dak. Filed Apr. 1, 1927. Serial No. 180,219. 1 Claim. (Cl. 170—162.)



In an engine cooling fan of the character described, a disk-shaped fan body, outwardly projecting lug members radially formed on said body inwardly from the periphery thereof, sleeves formed radially at the periphery of the body and having their inner end portions in spaced relation to the lugs, a plurality of fan blades, pins associated with the inner ends of said blades for engagement with the opening in the respective sleeve and lug, and a coiled spring disposed around the inner end of said blade and between the lug and sleeve for normally maintaining the blade in a set position.

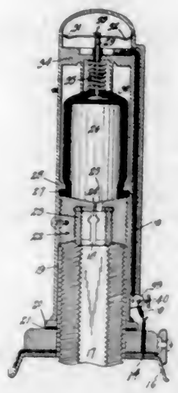
1,685,324. WEATHER STRIP. DAVID H. HARNLY, Chicago, Ill. Filed Apr. 23, 1927. Serial No. 185,930. 4 Claims. (Cl. 20—69.)



1. In a weather strip, a flexible strip, a metal casing partially enclosing the same, said casing having a bottom wall and an upper wall having a longitudinal indenture

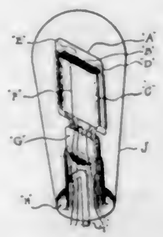
for locking said flexible strip between said walls, the portion of the upper wall forward of said longitudinal indenture being slightly arcuate for deflecting material for preventing tearing of said upper wall from said flexible strip.

1,685,325. TIRE DEFLATION SIGNAL. HUGH R. HUGHES, Kellogg, Idaho, assignor of one-fourth to Dennis R. Frost, one-fourth to Harry A. Mutch, and one-fourth to Harrey J. Papineau, Kellogg, Idaho. Filed July 19, 1927. Serial No. 206,847. 1 Claim. (Cl. 200—58.)



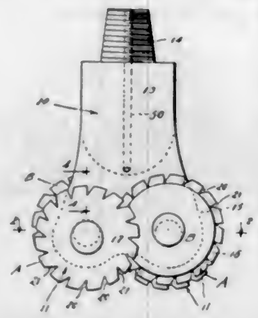
The combination with a valve stem and its valve pin, of a valve cap adapted to be threaded on the stem, means carried by the cap for opening the tire valve, said cap having an inflatable reservoir forming an equalizing air pressure chamber to receive pressure from the tire, an exterior retaining flange on the reservoir and a coacting interior flange on the valve cap, a normally open circuit maker carried in the cap, and means operable to close the circuit when the pressure in the reservoir falls to a certain degree.

1,685,326. THERMIONIC VACUUM TUBE. JAMES DENNEY JORDAN, Owensboro, Ky., assignor to The Ken-Rad Corporation, Owensboro, Ky., a Corporation of Kentucky. Filed Jan. 16, 1926. Serial No. 81,684. 3 Claims. (Cl. 250—27.5.)



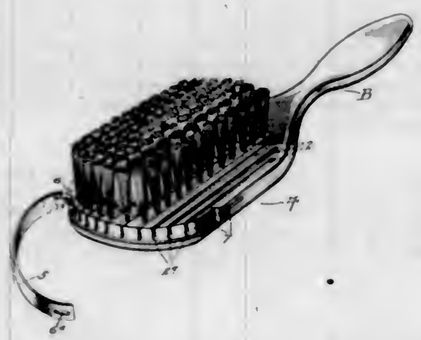
1. A thermionic vacuum tube comprising an evacuated vessel, grid, filament and plate electrodes within said vessel and aligned with the vertical axis of said vessel, and a mounting for activating material within said vessel, said activating material mounting extending laterally across said electrodes in a substantially horizontal direction with respect to the vertical axis of said vessel and connecting with opposite sides of said plate electrode.

1,685,327. WELL-DRILLING BIT. ARCHER W. KAMMERER, Fullerton, Calif. Filed Nov. 12, 1924, Serial No. 749,389. Renewed May 1, 1928. 3 Claims. (Cl. 255—71.)



1. A bit including, a flat body, and two pairs of disc cutters carried by the body at diametrically opposite sides of its central axis, each pair of cutters including a cutter at the leading side of the body and a cutter at the trailing side of the body.

1,685,328. SANITARY BRUSH. ELSA S. KOGLER and ALBERT P. KOGLER, San Francisco, Calif. Filed Oct. 26, 1927. Serial No. 228,761. 3 Claims. (Cl. 15—202.)

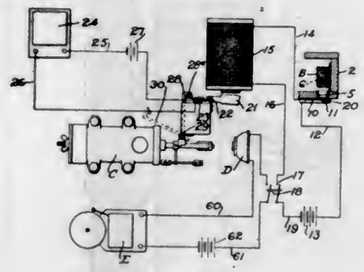


1. A bristle bar for brushes comprising an elongated strip having a line of perforations extending lengthwise thereof and near one marginal edge of the strip, said marginal edge being bent downwardly substantially at right angles to the portion of the strip within which the perforations occur, the body of the strip upon the opposite side of the perforations being bent substantially at right angles to the portion carrying the perforations and being bent upon itself around a wire, the folded portions being pressed toward each other to hold the wire in position and to secure bristles upon the wire and which bristles extend through the perforations in the plate.

1,685,329. ALARM MECHANISM. CHARLES J. LYNCH, San Francisco, Calif. Filed Feb. 18, 1925. Serial No. 9,949. 3 Claims. (Cl. 177—314.)

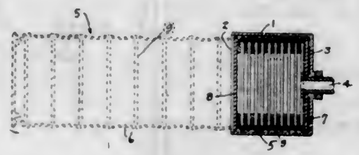
2. The combination with an electric circuit making mechanism, of a magnet adapted to be actuated thereby, a pivotally mounted armature actuated by the magnet, means actuated by the armature for closing an alarm circuit, and other means actuated by the armature for closing a second alarm circuit after a predetermined interval, said other

means including a dash-pot comprising a cylinder, a piston and means for automatically actuating the piston, and a pivoted trip lever for holding the piston against movement,



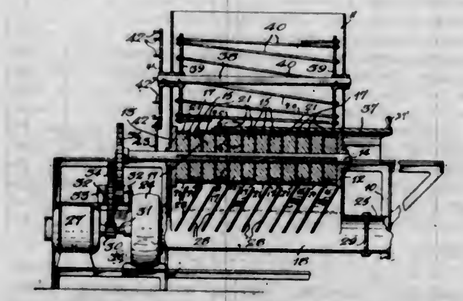
said trip lever being engageable with and held by the armature and released from such engagement when the armature is actuated by the magnet.

1,685,330. DIRECTION-INDICATING SIGNAL. JOHN MILTON MARONEY, Oakland, Calif. Filed May 14, 1928. Serial No. 277,647. 3 Claims. (Cl. 116—39.)



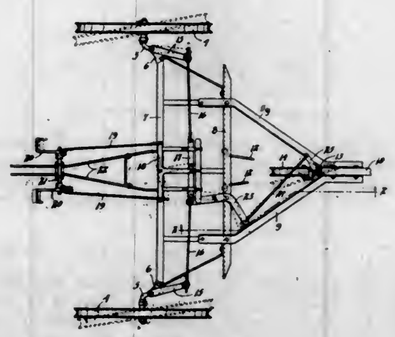
1. A casing having a closed end and an open end, a collapsible member normally disposed within said casing and having one end thereof secured to the casing, means for admitting air to said member and for withdrawing air from said member, and reinforcing rings disposed at intervals along said member.

1,685,331. APPARATUS FOR FEEDING POWDERED FUEL. WILSON L. MCLAUGHLIN and HERROLD L. MCLAUGHLIN, Des Moines, Iowa. Filed July 16, 1927. Serial No. 206,353. 5 Claims. (Cl. 302—49.)



1. In a device of the class described, a hopper, a cylinder rotatably mounted in the bottom of said hopper, a means for rotating said cylinder, scoops formed in the periphery of said cylinder, a means for adjusting the depth of each of said scoops, and an air induction fan for receiving and transferring the fuel fed by the said scoops and air to a burner, for the purposes stated.

1,685,332. FOOT-OPERATED STEERING GEAR. WILLIAM J. MCCARTY, Murdock, Minn. Filed Aug. 28, 1924. Serial No. 734,617. 2 Claims. (Cl. 280—87.1.)



1. A cultivator having in combination, a frame, a pair of main wheels therefor mounted to swing about vertical axes, arms for swinging said wheels, a castor wheel adjacent the front of said frame, a vertical spindle carrying said castor wheel journaled in said frame, a much shorter arm secured to said spindle, a member movable transversely of said frame and connected to said first mentioned arms for swinging said main wheels, a bell crank lever pivoted on said frame about a vertical axis having one end connected to said arm, and having another end connected to said member, a T-shaped lever pivoted about a vertical axis for moving said member in either direction, and means actuated by the operator for moving said T-shaped lever whereby when said main wheels are swung through a certain angle, said castor wheel will be simultaneously swung through a greater angle.

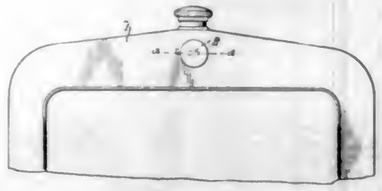
1,685,333. MAGAZINE BUFFER. HAROLD MACDOUGALL, Maplewood, and WILLIAM G. KENDALL, Newark, N. J. Filed June 11, 1927. Serial No. 198,079. 3 Claims. (Cl. 132—75.)



1. A magazine buffer and applicator, including a buffer section and a magazine section having a discharge port adapted to be respectively closed and opened by relative movement between the sections, the said buffer section including a continuous wall and a closed end, the continuous wall having a marginal bead spaced from the end wall, a buffer material arranged over the end wall

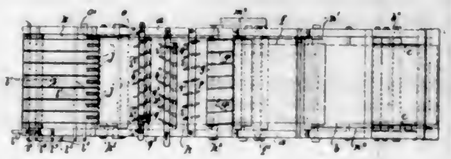
and having a marginal portion extending downwardly over the continuous wall and over the bead, and a clamping ring engaging over the bead and clamping the marginal portion of the buffer material in place.

1,685,334. NAME PLATE. ARTHUR L. MYERS, La Crosse, Wis., assignor to Northern Engraving Company, La Crosse, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1927. Serial No. 178,825. 5 Claims. (Cl. 40—20.)



1. In a securing device of the character described, a member, a structure to which said member is to be applied, and a pair of prongs of different dimensions in cross section projecting from said member, said structure being formed with apertured places corresponding respectively in dimensions to said prongs to receive said prongs, the free ends of said prongs after insertion into said apertured places being bent against the wall of said structure to secure said member in position.

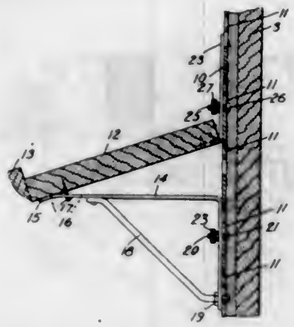
1,685,335. APPARATUS FOR SORTING AND STACKING BISCUITS AND OTHER ARTICLES. JOHN CURRIE PATERSON and GEORGE RALPH BAKER, London, England, assignors to Baker Perkins Company Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 4, 1926, Serial No. 127,117, and in Great Britain Aug. 19, 1925. 3 Claims. (Cl. 198—30.)



1. Apparatus for sorting biscuits and other articles comprising a conveyor adapted to feed the articles to an inclined chute provided with spaced partitions inclined to the direction of travel and between which the articles slide by gravity in rows, and a second conveyor receiving the articles from the chute and from which they pass between other series of partitions arranged at different relative angles which act to further align and arrange the articles in rows.

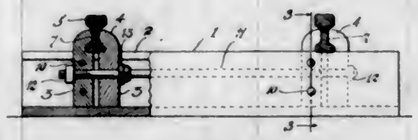
1,685,336. DISPLAY DEVICE. WILLIAM EDWARD PLATT and MAITLAND STORM PLATT, Toronto, Ontario, Canada. Filed Oct. 8, 1925, Serial No. 61,321, and in Canada May 27, 1925. 3 Claims. (Cl. 211—147.)

1. In a display device, the combination with a back and a shelf, of a shelf supporting bracket detachably and vertically adjustably secured to the back, said shelf being slidably secured to the bracket in the vicinity of its



forward edge, and a subsidiary bracket hinged to the back of the shelf and adjustably and detachably secured to the back.

1,685,337. RAILWAY TIE, RAIL FASTENER, AND RAIL JOINT. JESSIE C. POPE, Longview, Tex. Filed Dec. 7, 1926. Serial No. 153,049. 1 Claim. (Cl. 238—77.)

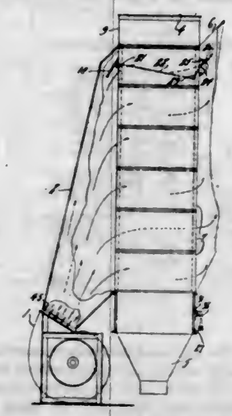


A railroad tie of the class described including a hollow member angular in cross section and open at its ends and top, an inturned longitudinal flange at each side of the top of the member, said flanges constituting rail supports, a block fitted snugly within said member adjacent one end, a recessed neck integral with the block and projecting between the flanges for engaging the outer base flange of one rail of a track, a similar block in the member adjacent its other end, a recessed neck extending therefrom between the flanges for engaging the inner base flange of the other rail of a track, means extending transversely through the blocks and the hollow member for holding them together fixedly, blocks fitted snugly within the hollow member and adjustable longitudinally thereof, one of said blocks having a recessed neck projecting between the flanges for engaging the inner base flange of the first named rail, the other block having a recessed neck for engaging the outer base flange of the second named rail, a rod extending longitudinally of the member through all of the blocks, a collar on the rod, means threaded on one end portion of the rod for shifting said rod longitudinally, thereby to bind the collar against one of the adjustable blocks to shift it toward the adjacent fixed block, thereby to clamp the rail positioned between said blocks, and means threaded on the other end of the rod for engaging the other adjustable block to shift it relative to the adjacent fixed block, thereby to clamp upon the rail between the necks of said blocks.

1,685,338. DRYING. OLIVER W. RANDOLPH, Toledo, Ohio. Filed Jan. 28, 1925. Serial No. 5,235. 6 Claims. (Cl. 34—34.)

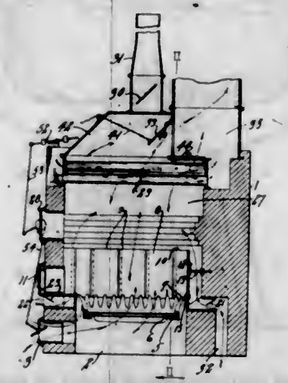
1. Apparatus for the reduction of the moisture content of bulk material comprising a vertical housing for a column of said material, a first series of ducts extending

transversely into said housing, sub-humid gas supply means to said first series of ducts, and a second series of ducts extending from said housing to be supplied by



gas as passing through the material from said first series of ducts, said ducts having closed gable type tops and narrowing sides downward to open bottoms.

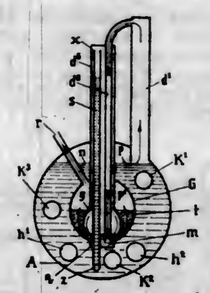
1,685,339. FURNACE. OLIVER W. RANDOLPH, Toledo, Ohio. Filed Mar. 27, 1925. Serial No. 18,786. 5 Claims. (Cl. 110—72.)



1. A furnace comprising a grate, a primary flare fire pot adjacent the grate having openings extending upwardly thereabout, a secondary sectional fire pot rising from the primary fire pot, a furnace housing, and duct sections extending through the housing provided with sustaining connection means for said secondary fire pot sections.

1,685,340. ABSORPTION REFRIGERATING APPARATUS. ALFRED RICHTER, Doberitz, near Berlin, Germany, assignor to A.-G. Für Handels- und Industriewerte Glarus, Glarus, Switzerland. Filed Sept. 15, 1924, Serial No. 737,917, and in Germany Sept. 19, 1923. 4 Claims. (Cl. 62—118.)

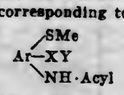
1. In an absorption refrigeration apparatus, the combination of an absorber vessel adapted to contain a liquid absorbent for the refrigerant, a second vessel likewire adapted to contain a liquid and having a vapor outlet at the top thereof, an inverted receptacle disposed in said second vessel, pipes providing communication between said vessels, one of said pipes connecting the top or vapor space of said absorber vessel with the second vessel of a point below the liquid level therein, said pipe being so disposed as to act as a liquid seal and another of said pipes establishing communication between the absorber vessel, at a point below the liquid level therein and



within the inverted receptacle, and the second vessel at a point above the point at which the first mentioned pipe terminates in the second vessel, said pipe being so disposed as to act as a liquid seal.

1,685,341. PHARMACEUTICAL PRODUCTS. WALTER SCHOELLER, ADOLF FELDT, MAX GEHRKE, and ERICH BORGWARDT, Berlin, Germany, assignors to the Firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed May 9, 1925, Serial No. 29,207, and in Germany June 2, 1924. 8 Claims. (Cl. 260—11.)

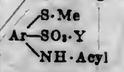
1. As a new product, the derivative of an amino metal mercapto compound corresponding to the formula



wherein Ar is a benzene nucleus, Me is a heavy metal, X is COO, Y is hydrogen or a metal, more especially an alkali metal, such product dissolving in water only with difficulty as an acid, readily as an alkali salt and having a therapeutical effect more especially in cases caused by spirochætae.

1,685,342. PHARMACEUTICAL PRODUCTS. WALTER SCHOELLER, ADOLF FELDT, MAX GEHRKE, and ERICH BORGWARDT, Berlin, Germany, assignors to Firm: Chemische Fabrik auf Actien, (vorm. E. Schering), Berlin, Germany. Original application filed May 9, 1925, Serial No. 29,207, and in Germany June 2, 1924. Divided and this application filed June 1, 1926. Serial No. 113,076. 6 Claims. (Cl. 260—11.)

1. As a new product, the derivative of an amino metal mercapto compound corresponding to the formula



wherein Ar is a benzene nucleus, Me is a heavy metal, Y is hydrogen or an alkali metal, such product dissolving in water only with difficulty as an acid, readily as an alkali salt and having a therapeutical effect more especially in cases caused by spirochætæ.

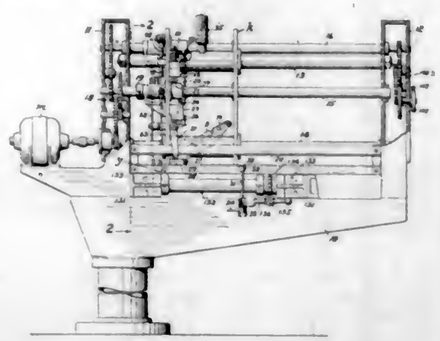
1,685,343. METHOD FOR PLANNING STORMPROOF ZONES AROUND OR THROUGH WOOD DISTRICTS. EMIL STOCK, Bad Flinsberg of Silesia, Germany. Filed July 13, 1926, Serial No. 122,195, and in Germany July 20, 1925. 8 Claims. (Cl. 47—58.)



1. A method of protecting forests which comprises polling the trees at the outskirts of the forest to a depth into the forest of approximately three trees to deflect the

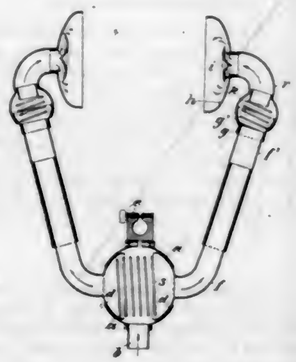
air currents thereby preventing the air from banking up against the forest and subjecting the trees to excessive and damaging strains.

1,685,344. MACHINE FOR SECURING BRIDGE WIRES TO LEAD WIRES OF ELECTRIC BLASTING CAPS. JOSEPH STUART, 2d, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 24, 1927. Serial No. 177,959. 40 Claims. (Cl. 140—112.)



1. In a machine for securing a bridge wire between the ends of the lead wires of a detonator, in combination, mechanism to weld the bridge wire to, and encase it in the metal of, the lead wires, and means to move said mechanism into and out of operative position.

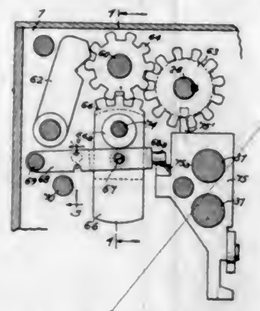
1,685,345. HAIR-DRYING APPARATUS. ERDMANN VOSS, Hamburg, Germany. Filed Mar. 28, 1925, Serial No. 19,061, and in Germany May 8, 1924. 6 Claims. (Cl. 34—26.)



1. An apparatus for drying the human hair by means of hot air, comprising a head adapted to be attached to a hot air conduit, spreading cups, and telescopically composed tubes pivotally attached to the said head and to the said cups, respectively.

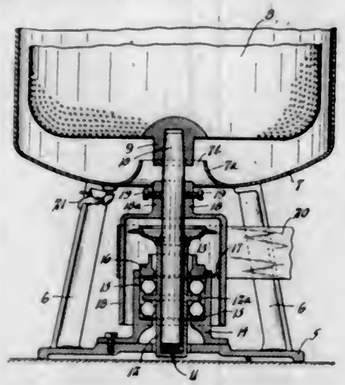
1,685,346. TENS-CARRYING DEVICE FOR CALCULATING MACHINES. OTTO WEISKOPF, Erfurt, Germany. Filed May 1, 1926, Serial No. 106,110, and in Germany May 5, 1925. 4 Claims. (Cl. 235—139.)

1. Single stage tens-carrying device for calculating machines comprising, a denominational slide, dial wheels, a pinion and a single tooth connected with each dial wheel weighted arms mounted below said dial wheels for free rocking motion, toothed sectors forming part of said arms and adapted to connect the single tooth of one dial wheel



with the pinion of the adjacent dial wheel, means for limiting the stroke of said sectors so as to prevent overrunning and means connected with said denominational slide for throwing said sectors into and out of mesh with said pinions and teeth on said dial wheels.

1,685,347. BEARING FOR CENTRIFUGAL EXTRACTORS. EDWARD J. ZELENKA, Minneapolis, Minn. Filed Jan. 13, 1927. Serial No. 160,855. 2 Claims. (Cl. 308—144.)

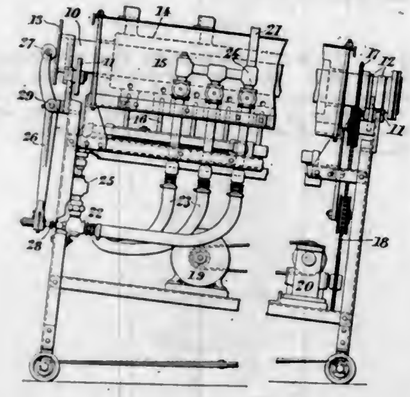


1. A shaft controlling device having in combination, a rotating shaft, a sleeve in which said shaft is carried having a circumferential flange between its ends, a casing in which said sleeve is disposed, a plurality of polygonal resilient members formed respectively from strips of resilient metal disposed about said sleeve in radial planes above and below said flange and between said sleeve and the walls of said casing, said members below said flange being supported by said casing, and means threaded into the top of said casing about said sleeve adapted to engage said members above said flange, said members being resilient and flexible whereby they may be flexed to be brought into contact with said sleeve, flange and the wall of said casing, as well as with the bottom of said casing and said last mentioned member.

1,685,348. TEMPERATURE-CONTROLLING MEANS. JAMES BAILEY, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed June 11, 1923. Serial No. 644,655. 1 Claim. (Cl. 236—104.)

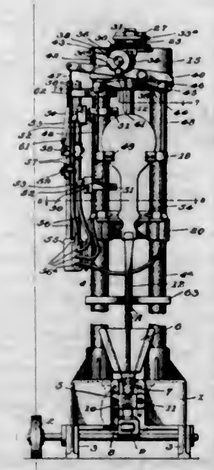
In a device for the annealing of glass articles, the combination with a rotating chamber to receive the articles,

of means for heating the chamber, a controller for regulating the heat so imparted, and means for actuating the con-



troller comprising a member having rolling contact with the end of the chamber and adapted to be shifted by the expansion thereof.

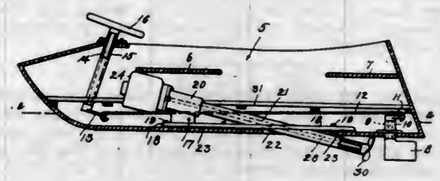
1,685,349. APPARATUS FOR AND PROCESS OF FINISHING BLOWN-GLASS ARTICLES. JAMES BAILEY, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Nov. 26, 1923, Serial No. 676,979. Renewed July 2, 1928. 13 Claims. (Cl. 49—2.)



4. A finishing machine comprising means for supporting the article to be finished with the implement on which it was made suspended therefrom, and means for simultaneously annealing the article and separating it from the implement.

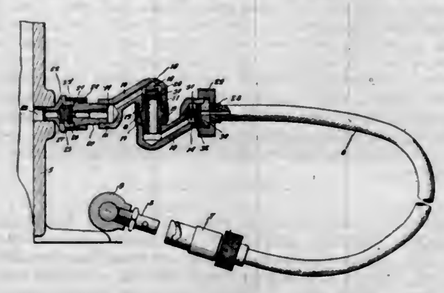
1,685,350. TOY SPEED BOAT. CONRAD R. BUCHET, Long Beach, Calif. Filed Apr. 2, 1927. Serial No. 180,537. 2 Claims. (Cl. 115—34.)

1. In a toy boat; a casing secured in said boat extending downwardly and rearwardly and passing through an aperture through the bottom of said boat, a propeller shaft journaled in said casing having secured to its rear end a propeller; a motor secured to the forward end of said casing and having the rear end of its shaft extending into said casing adjacent the forward end of the propeller shaft, and



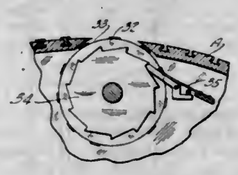
a flexible coupling member consisting of a non-metallic sleeve located in said casing and detachably secured to the ends of said shafts.

1,685,351. SWIVEL COUPLING. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 5, 1923. Serial No. 666,722. 1 Claim. (Cl. 285—9.)



In high pressure lubricating apparatus of the class described, a swivel coupling comprising a pair of conduit elements each having a transversely directed opening, an externally shouldered tubular member secured in one of said elements and having its extremity projecting within the transversely directed opening of the other element, means engaging the shoulder on said tubular member to maintain its extremity within said last named element, and a cup washer held against the transverse end face of the extremity of said tubular member and the inner wall of said last named element, said cup washer being positioned so as to exert additional pressure against the parts engaged thereby when fluid under pressure is present within the swivel coupling.

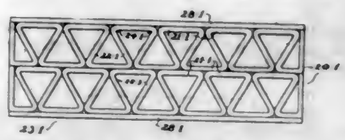
1,685,352. MACHINE FOR PRODUCING POST-OFFICE CLASSIFICATION SLIPS. JOHN P. DAVIS and SAMUEL HEIMAN, St. Louis, Mo.; said Davis assignor to said Heiman. Filed Jan. 24, 1927. Serial No. 163,178. 6 Claims. (Cl. 101—92.)



1. A machine for producing post-office classification slips, comprising a rotatable printing cylinder equipped with type, a rotatable platen that co-operates with said cylinder, feeding rolls for feeding a strip of paper between said platen and cylinder, a rotatable drum on said cylinder pro-

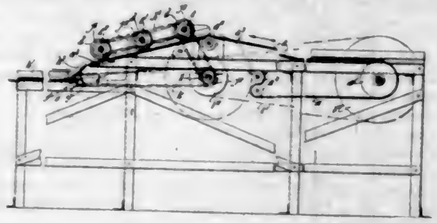
vided with printing type and arranged so that a portion of said drum is positioned in an opening in the periphery of said printing cylinder, a means that normally prevents said drum from turning relatively to the cylinder and a rotatable device actuated by the platen for turning said drum forwardly a definite distance at each cycle of operations of said cylinder.

1,685,353. TRUSSED STRUCTURE. GEORGE HIVES DAWSON, Boston, Mass., and HURXTHAL FIELD FERASE, Canton, Ohio. Original application filed Nov. 26, 1924, Serial No. 676,897. Divided and this application filed Dec. 13, 1924. Serial No. 755,616. 2 Claims. (Cl. 189—37.)



1. A trussed structure including a plurality of trussed elements, each of the elements being formed from a continuous strip and including spaced inner and outer rows of longitudinally extending members and transversely extending connecting members, there being junction angles between the longitudinally extending members and the transversely extending members, and the members of each element being joined to each other at the junction angles for resisting both tension and compression, and inner longitudinally extending members of the elements abutting each other, and means bodily fastening the abutting members to each other.

1,685,354. APPARATUS FOR STACKING BISCUITS AND SIMILAR ARTICLES. HEMMING ALARIK ELFVING, Hango, Finland, assignor to Finsk-Engelska Biscuit-Fabriks A. B., Hango-Vaxel, Finland, a Finnish Company. Filed Mar. 9, 1926, Serial No. 93,617, and in Great Britain Mar. 18, 1925. 3 Claims. (Cl. 107—45.)

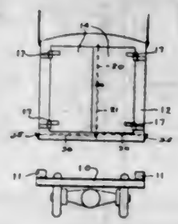


1. In apparatus for stacking biscuits, means for spacing the biscuits comprising a movable conveyor adapted to receive the biscuits in disarranged condition, and a plurality of series of discs extending across the path of the conveyor and rotatable in a direction opposed to the travel of the conveyor for arranging the biscuits in definite rows on said conveyor; the discs of the first series being spaced apart for a distance greater than the diameter of the biscuits, and the discs of the following series being spaced apart at distances substantially corresponding to said diameter.

1,685,355. STREAK-RIBBED PRODUCT AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Oct. 25, 1924. Serial No. 745,937. 11 Claims. (Cl. 18—48.8.)

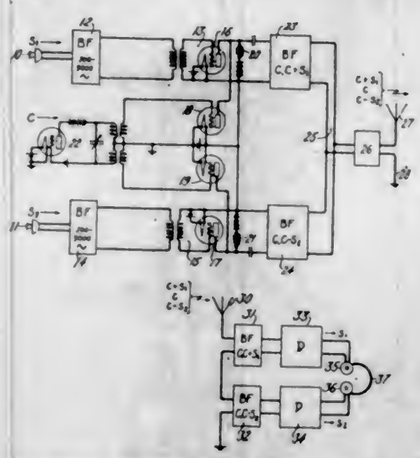
1. A process of making a streak-ribbed sheet material or plastic product which comprises impregnating sheets of thin paper with a synthetic resin comprising urea resin, superposing sheets of different colors, hot-pressing to weld the sheets together to a thicker sheet or block, cutting such pressed material transversely to make thin strips, assembling the strips edgewise in a hot press and pressing to weld the strips together to form a streak-ribbed or variegated partially translucent product.

1,685,356. LOCKING MECHANISM FOR REMOVABLE CONTAINERS. BENJAMIN F. FITCH, Greenwich, Conn., assignor to Motor Terminals Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 2, 1926, Serial No. 126,612. Renewed Dec. 24, 1927. 26 Claims. (Cl. 105—366.)



1. In combination, a container having a door therein and means carried by the container for automatically locking the door whenever the container is deposited upon a predetermined form of supporting surface.

1,685,357. TRANSMISSION SYSTEM. ELMER V. GRIGGS, White Plains, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1925. Serial No. 62,722. 13 Claims. (Cl. 178—44.)



1. In a carrier system, a method of transmitting signals, which comprises deriving from a single source signal impulses differing in phase from each other, separately modulating a carrier wave by said differently phased impulses, selecting one side band component of each modulation, and transmitting the selected components over a single channel.

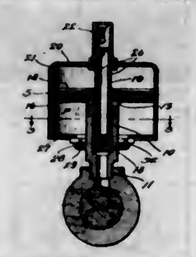
1,685,358. MECHANICAL MANIKIN. CLYDE LUDWICK HARCOURT, Seattle, Wash. Filed Apr. 19, 1927. Serial No. 185,058. 2 Claims. (Cl. 46—40.)

1. A manikin including a torso, a hip portion mounted for undulatory and rotary movement relative to the torso, a head mounted for turning movement, a power mechanism, shafts extending longitudinally of the manikin and operated by the power mechanism, rocking members supported on the shafts and operated thereby, connections between the rocking members to compel a relative undulating movement of the torso and hip portion, means operated



by the mechanism for compelling a rotary movement of the hip portion, and means operated by the mechanism for compelling a turning of the head.

1,685,359. LUBRICATING DEVICE. OTTO J. HERB, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 14, 1924. Serial No. 706,337. 3 Claims. (Cl. 184—38.)



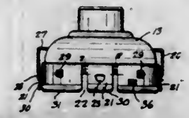
1. A lubricating device comprising a fixed tubular member, a fixed piston at the upper end thereof, an inverted cup fitting over said piston, an annular diaphragm mounted on the lower edge of said cup and forming a seal with said member, said diaphragm and member having resilient means mounted on one and engaging the other to lock them against accidental displacement by vibration, and means extending along the axis of said cup inside said member for forcing the cup down over the member.

1,685,360. CLEANING COMPOSITION OF MATTER. ROBERT BURNS HOFFMAN, Monterey, Calif. Filed Jan. 26, 1927. Serial No. 163,850. 1 Claim. (Cl. 87—5.)

A silver cleaning composition consisting of 100 grams of diatomaceous earth, 150 grams of water, 6 grams of calcium chloride, one gram ferric oxide, one gram ammonia, and one gram of oil of citronella.

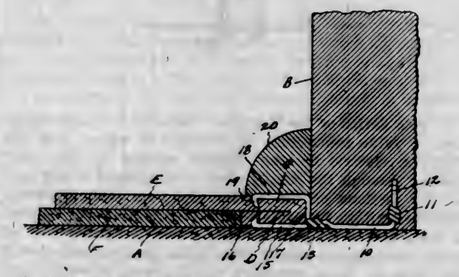
1,685,361. CAP AND SHELL FASTENING. HARVEY HUBBELL, Jr., Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed May 7, 1927. Serial No. 189,649. 13 Claims. (Cl. 178—362.)

3. A casing for electrical devices comprising two telescoping sections, cooperating securing means on the two sections to secure them together, the securing means of one of the sections being mounted on resilient tongues tending to move away from the other section to separate said means, and movable means on one of the sections arranged



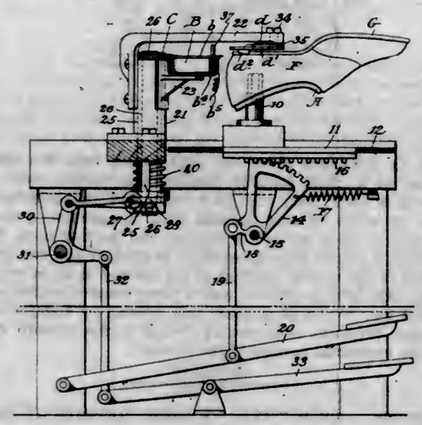
in one position to hold the tongues in securing position and in another position to release them to allow them to move to an ineffective position.

1,685,362. FASTENING DEVICE FOR FLOOR COVERINGS. WILLIAM C. JOSEPH, Fort Worth, Tex. Filed Feb. 8, 1927. Serial No. 166,640. 4 Claims. (Cl. 16—6.)



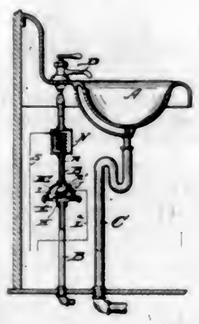
1. A fastening device for floor coverings comprising, a head for permanently anchoring the device on a floor of the character described, and a pair of arms relatively spaced one above the other and having prongs directed toward each other for receiving a floor covering therebetween, said arms being spaced laterally from each other so that the edge of the floor covering may be threaded therebetween.

1,685,363. HEEL-SEAT FITTING AND MOLDING MACHINE. JOHN A. KELLY, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 29, 1925. Serial No. 46,711. 15 Claims. (Cl. 12—17.)



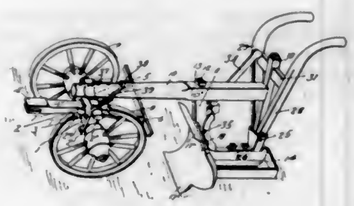
1. In a shaping and trimming machine, a mold, means for heating said mold, a plurality of beveling knives, means for supporting and moving a last into operative position relatively to the mold and said knives, and means for actuating said knives.

1,685,364. ELECTRIC WATER HEATER. ERICH T. P. KOPATZ, Dearborn, Mich. Filed Oct. 25, 1926. Serial No. 143,925. 3 Claims. (Cl. 219—39.)



1. In a device of the character described, a water supply pipe; a valve controlling the delivery of water from the pipe; an electric heating element located in the water passage through the supply pipe; a chambered fitting connecting sections of the supply pipe; an electric switch contained within the chambered fitting; and means adapted to open and close said switch, actuated by the flow of water through the supply pipe upon opening and closing the discharge valve governing the discharge of water from said pipe.

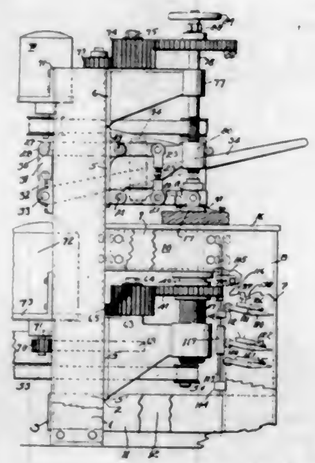
1,685,365. HILLSIDE PLOW. CHARLES WESLEY LADD, Chipman, Alberta, Canada, assignor of one-half to Tom Sing, Edmonton, Alberta, Canada. Filed Nov. 5, 1926. Serial No. 146,517. 2 Claims. (Cl. 97—31.)



1. In a hillside plow, the combination with the plow beam, of a right angular bracket, the vertical arm of which extends from the plow beam and the horizontal arm of which extends parallel with the ground, a shoe secured at such horizontal portion and bearing upon the ground, a double edge plow share pivoted at one end centrally of the vertical portion of the bracket so as to swing from side to side thereof, and a strap secured to the opposite end of the plow share and having an angular extension pivotally connected at its end to the forward end of the horizontal portion of the bracket.

1,685,366. DEFECTIVE LUMBER REPAIRING MACHINE. HOMER E. LEASH, Oakland, Calif. Filed May 18, 1927. Serial No. 192,231. 8 Claims. (Cl. 144—2.)

1. A machine of the class described comprising a work table, means to secure a piece of lumber thereto, a revoluble spindle, a cutter spindle carried thereby eccentrically, means to rotate said spindles independently, means to cause the first spindle to rise with the cutter spindle, means to stop both spindles when they have passed through the piece of lumber on the table, means to hold a block on



the first spindle, means to cut and thread the block to fit the hole in the lumber, and means to reversely rotate the spindle and block into the hole in the piece of lumber.

1,685,367. SHEET-METAL CONTAINER. JOHN LEE and CHARLES PEARSON, Ingersoll, Ontario, Canada. Filed Mar. 9, 1927. Serial No. 173,951. 1 Claim. (Cl. 220—59.)

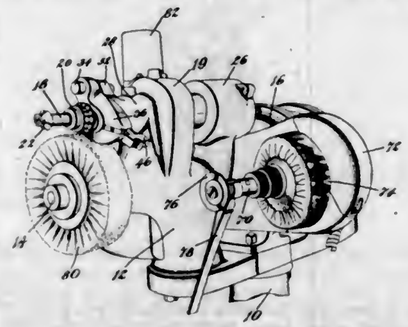


A sheet metal container divided into two portions having annular flanges fitting freely one within the other without wedging contact and each having an annular inclined surface extending at an angle to the annular flanges parallel one to the other and adapted to fit one against the other without wedging contact when the container is closed and so positioned as to hold the annular edge of the interior flange in spaced relation to the end wall of the opposing container member, and tongues extending from the flange of the outer member past the annular edge of the inner member to be bent against an end wall of the container.

1,685,368. FINISHING MACHINE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 14, 1925. Serial No. 56,266. 9 Claims. (Cl. 12—78.)

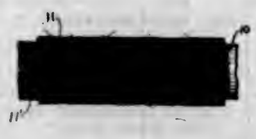
1. In a burnishing machine, a rotary shaft, a circular tool mounted on said shaft and provided with a burnishing surface on its periphery, said shaft being formed with an eccentric portion, a pivoted arm upon said machine having a slotted portion co-operating with the eccentric on said

shaft to vibrate the arm, and a burnishing tool secured to the outer end of said arm for vibration therewith, whereby the greater portion of the edge of the sole of a shoe



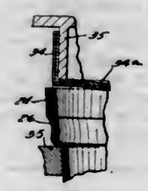
may be burnished by means of the rotary tool and the portion adjacent to the heel-breast may be finished by means of the vibratory tool.

1,685,369. INSULATED WIRE. EDWARD A. MAU and ORRIN F. HUTCHINSON, New Haven, Conn., assignors, by mesne assignments, to Rockbestos Products Corporation, a Corporation of Massachusetts. Filed Nov. 29, 1922, Serial No. 604,022. Renewed Oct. 21, 1927. 6 Claims. (Cl. 173—264.)



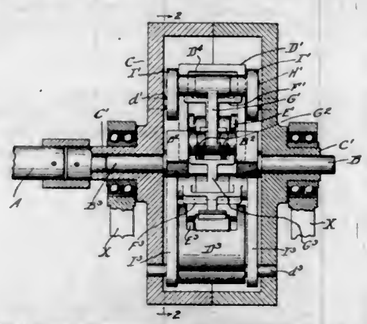
1. An insulated electrical conductor comprising a wire and an insulating sheath for the wire consisting of a tough, flexible covering of densely compacted fibres, the fibres of the covering adjacent to the wire being generally parallel to the length of the wire and the remaining fibres being indiscriminately entangled.

1,685,370. PAPER CONTAINER HAVING BODY WITH RENITENT NECK AND PROCESS OF MAKING SAME. ARLINGTON MOORE, Worcester, Mass. Filed Nov. 5, 1923. Serial No. 672,758. 6 Claims. (Cl. 229—5.6.)



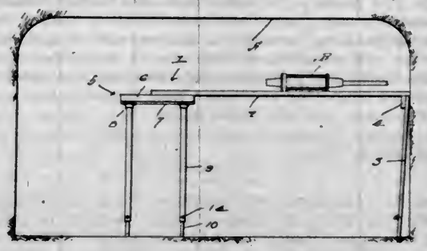
1. A paper container body having a shoulder for limiting the extent of lid insertion, and having an inturned marginal portion spaced at a material distance beyond said shoulder, the body wall between said shoulder and the inturned marginal portion being formed into a renitent and normally inwardly bulged portion adapted to be expanded by an inserted lid and to exert a gripping action on the lid.

1,685,371. POWER TRANSMISSION. CHARLES R. NICHOLS, New York, N. Y. Filed Dec. 24, 1926. Serial No. 156,800. 5 Claims. (Cl. 74—34.)



1. In a power transmission, the combination of revoluble members, one or more centrifugal weights each mounted on one of said members so as to move toward and away from the axis of rotation of the latter, and a connection between each such weight and the second member including a crank carried by the latter which on a certain relative angular movement of said members causes said weight to move inward toward the axis of rotation of the member on which the weight is mounted, said connection including provisions for automatically adjusting its effective length at the end of each inward movement of said weight to thereby permit a quick outward movement of the latter.

1,685,372. JACK-HAMMER SUPPORT. FRANK T. NOWALK, Scranton, Pa. Filed Mar. 5, 1927. Serial No. 173,187. 1 Claim. (Cl. 304—6.)



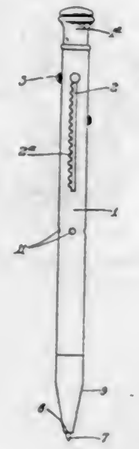
A stand comprising a solid platform having a flat top face, said platform being of substantially rectangular design and decreasing gradually in thickness from its center to the side edges thereof for the full length of the platform, whereby bevelled faces are formed on the bottom of said platform, and front and rear pairs of supporting legs secured at their upper ends to the bevelled faces of the platform, whereby said front and rear pairs of legs are disposed in diverging relation toward their lower ends.

1,685,373. MILLING CUTTER FOR CUTTING SHARPLY-POINTED ANGULAR INCISIONS INTO WOOD. HEINRICH OHAGEN, Breslau, Germany. Filed Apr. 14, 1927, Serial No. 183,740, and in Germany Apr. 23, 1926. 4 Claims. (Cl. 144—136.)



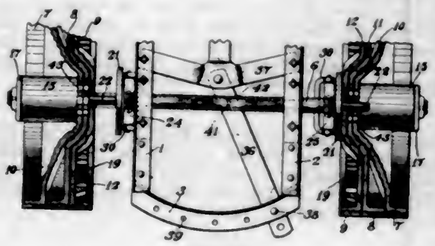
1. A milling-cutter in which the roughing knives and the finishing knives are mounted on one and the same cutter-disk, comprising in combination with the cutter-disk, roughing knives rigid with said disk, and finishing knives mounted in said disk so that they can oscillate in the plane of said disk.

1,685,374. MAGAZINE PENCIL. FRANCIS PARTOS, London, England. Filed Jan. 23, 1928, Serial No. 248,876, and in Great Britain Feb. 1, 1927. 1 Claim. (Cl. 120—14.)



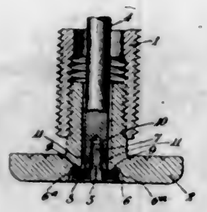
A magazine pencil comprising an outer longitudinally slotted casing, an externally grooved inner tube adapted to serve as a magazine for spare leads, lead carriers slidably mounted in said grooves and inwardly offset at their forward ends, a lug mounted on the rear end of each lead carrier and projecting through one of the slots in the outer casing for projecting and retracting the same, a combined reinforcing and colour band disposed about said lead carriers, and said outer casing having spaced openings formed through its wall whereby the colour of the band may be viewed.

1,685,375. SIDE-DRAFT CONTROL FOR TRACTORS. WILLIAM L. PAUL, Berkeley, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed July 5, 1923. Serial No. 649,470. 11 Claims. (Cl. 180—17.)



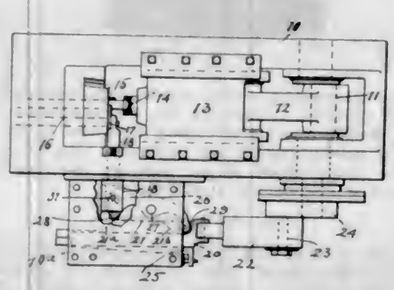
1. In a tractor having a pivoted draw bar, the combination of a frame, an axle supported on the frame, traction wheels journaled on the axle, each wheel composed of a plurality of sections, and means operable by the draw bar to connect one or more of said sections with the driving mechanism of the tractor.

1,685,376. TIRE VALVE. WINFIELD P. PORTER, Greene, Me. Filed Sept. 22, 1927. Serial No. 221,155. 2 Claims. (Cl. 152—12.)



1. A tire valve including a shell, having a base member which latter has a recess in its outer face and an annular lip at the bottom of the recess, a valve plunger in the shell having a threaded bore in its lower end, a valve head receivable in the recess of said base member and having a stud threaded into said bore and an annular recess on its upper face, and a sealing ring in the recess clamped between the valve head and the lower end of the plunger and projecting beyond the periphery of the plunger and being engageable with said annular lip.

1,685,377. CUT-OFF MECHANISM FOR METAL-WORKING MACHINES. JOHN PROVINCE and BENJAMIN PROVINCE, Kent, Ohio, assignors to The Lamson and Sessions Company, Kent, Ohio, a Corporation of Ohio. Filed Oct. 3, 1924. Serial No. 741,346. 4 Claims. (Cl. 10—25.)



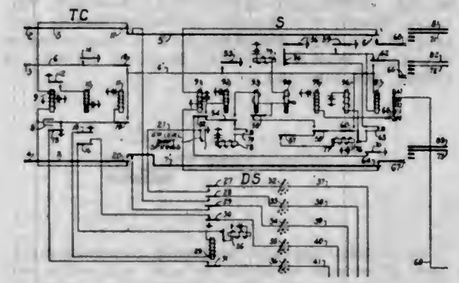
2. In a metal working machine of the type wherein stock is fed into the machine and cut into sections, a frame, and stock cutting mechanism comprising a cutter, a reciprocating and sliding holder carrying the cutter, a double-acting cam having aligned cam surfaces arranged opposite the end of the holder, and means adapted to engage both cam surfaces and connected to said holder for causing the holder to be positively actuated in both directions by movement of the cam.

1,685,378. LUBRICATING DEVICE. WILLIAM RAEBURN, Waterbury, Conn., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 8, 1921. Serial No. 490,464. 3 Claims. (Cl. 184—88.)

1. The combination with a lubricant receptacle comprising a tubular member having a flange at one end thereof, of a cap for said tubular member comprising a cup-shaped member having a skirt portion adapted to surround the end of said tubular member and terminating in an inwardly projecting flange, and a split tubular ring loosely held in said skirt portion by its own resiliency, said ring having a projection extending inwardly from the inner face thereof and positioned to engage said flange when said cup is forced over the flanged end of said tubular member.



1,685,379. AUTOMATIC TELEPHONE SYSTEM. LEONARD L. RUGGLES, Wheaton, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Original application filed June 6, 1925, Serial No. 35,280. Divided and this application filed May 26, 1927. Serial No. 194,250. 10 Claims. (Cl. 179—9.)



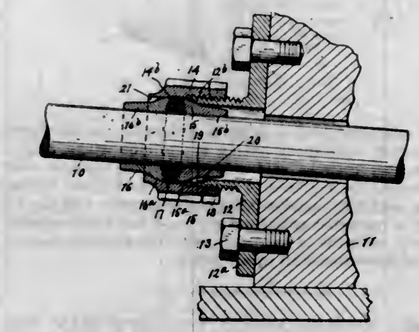
1. In a multi-office telephone system, a director for transmitting digit combinations to trunk calls to any one of a plurality of offices, a registering device associated with said director for indicating the total number of calls trunked to a given office, and means controlled by said device for controlling the transmission of a digit of the combination corresponding to such office.

1,685,380. SCRAPING TOOL. LLEWELLYN B. SHULTZ, St. Louis, Mo., assignor to Pilley Packing & Flue Brush Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 9, 1926. Serial No. 134,362. 1 Claim. (Cl. 15—104.19.)



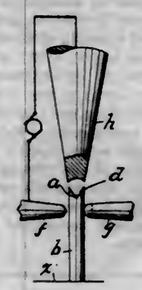
In a device of the class described, the combination with a rod, of a pair of sleeves on said rod, each provided with a bore of greater diameter than the rod and terminating in a restricted portion, bendable scraping blades having their ends between said rod and sleeves and clamped to the rod by said restricted portion, and means for moving said sleeves toward and away from each other to spring the scraper blades and thus vary the effective diameter of the tool.

1,685,381. COMBINED STUFFING BOX AND SHAFT BEARING. JOHN O. SMITH, Cleveland, Ohio, assignor to The Upson-Walton Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 23, 1927. Serial No. 177,491. 5 Claims. (Cl. 308—72.)



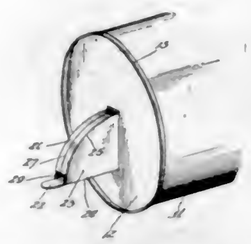
1. In combination, a stuffing box comprising a sleeve adapted to have a shaft extend therethrough and a gland adjustable on said sleeve, said sleeve and gland having a pair of opposed annular seats, a bearing for the shaft comprising two separate members interlocked with each other, each provided with a spherically curved portion engaging one of said seats and having a packing between them, and means interposed between the stuffing box and bearing for locking the bearing to a part of the stuffing box.

1,685,382. METHOD OF BRIDGING THE CONNECTING WIRES OF ELECTRIC BLASTING CAPS. JOSEPH STUART, 2d, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Original application filed Feb. 9, 1927, Serial No. 166,853. Divided and this application filed Apr. 23, 1927. Serial No. 185,951. 2 Claims. (Cl. 219—10.)



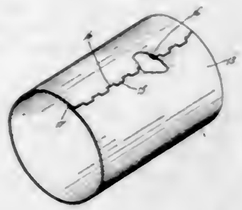
1. A method of securing the ends of a bridge wire to the ends of the spaced apart conducting wires of an electric blasting cap which comprises forming a notch in the end of a conducting wire, positioning the bridge wire in said notch, supporting the conducting wire, and upsetting the metal walls of the notch over the bridge wire while passing an electric current through the bridge wire and conducting wire, thereby both welding the bridge wire to, and encasing it in, the extremity of the conducting wire.

1,685,383. POURING-SPOUT CONTAINER. JOHN J. THOMAS, Westfield, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 7, 1922. Serial No. 550,299. 2 Claims. (Cl. 221—11.)



1. A container having a spout hinged to an apertured wall thereof, said spout having a top, side wings, and a wall member between said side wings and opposite said top, whereby the material is confined in said spout during pouring, said wall member being cut away near said top to provide a restricted outlet opening and being constructed concentric with the hinge axis so as to make close contact with said apertured wall at all points.

1,685,384. HOOKED AND LAPPED SIDE SEAM FOR TUBULAR BODIES AND METHOD OF MAKING THE SAME. JOHN M. YOUNG, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 19, 1926. Serial No. 89,449. 7 Claims. (Cl. 113—116.)

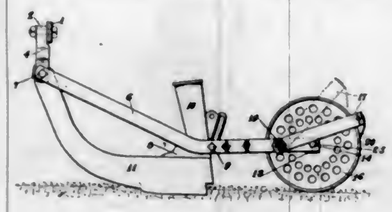


1. A can body made of comparatively light gauge tin plate, said body having its free edges united by a series of interlocked hooks and a series of overlaps, the members of the one series alternating with the members of the other, said hooks being formed of bentback parts of the can body engaging each other at points between the overlaps.

5. The method of uniting the free edges of a can body of comparatively light gauge commercial tin plate, which includes forming the free edges thereof with alternate hooks and overlaps, the hooks of one edge being bent reversely to those of the other edge, bringing said edges together to interlock said hook portions and superimpose said overlaps and thereafter soldering said hooks and overlaps to form a heretically sealed seam.

1,685,385. SCRAPER. CHARLES H. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed May 5, 1923. Serial No. 636,900. 1 Claim. (Cl. 280—158.)

The combination of a frame; a ground wheel supported on the frame; a support pivotally mounted on the frame forwardly of the axis of the ground wheel, extending rearwardly and having a vertically swinging movement about said pivot; a scraper secured on said support and movable bodily therewith; said support and scraper adapted to be swung upwardly by an increase of soil on the wheel tread, and dropping back to primal position by gravity in an arc eccentric to the axis of said wheel whereby the scraper operates with a chopping effect on soil on the wheel tread; and a stop to limit the downward movement of said support and scraper.

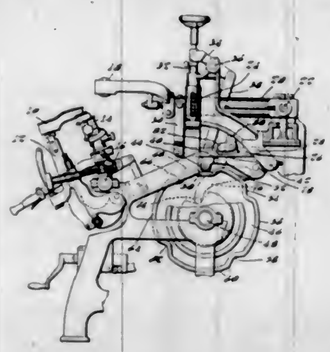


1,685,386. INSULATED CONDUCTOR. ROBERT R. WILLIAMS, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 5, 1924. Serial No. 711,043. 14 Claims. (Cl. 178—45.)



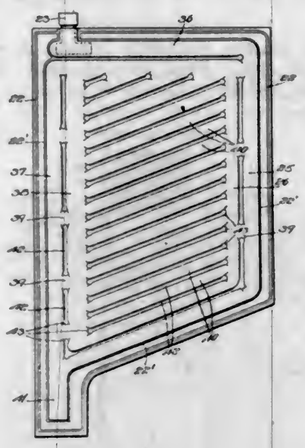
1. An electrical conductor comprising a conducting core, a layer of pressure equalizing material surrounding said core, an outer sheath of insulating material, and a separator of chemically inert material positioned between said pressure equalizing material and said insulating material.

1,685,387. SHOE-PRESSING MACHINE. ERASTUS E. WINKLEY and FRED V. HART, Lynn, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 8, 1925. Serial No. 42,213. Renewed Dec. 19, 1927. 27 Claims. (Cl. 12—34.)



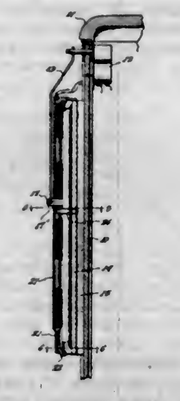
4. In a shoe pressing machine, means for holding a shoe, a tool arranged to operate progressively over the shoe to press it, a pressure mechanism having a pressure cycle of certain characteristics, and a mechanism for inhibiting certain of these characteristics as regards selected shoes.

1,685,388. BOILER CONSTRUCTION. RAYMOND E. WHITE, Chicago, Ill., assignor to Tubal Boiler Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1923. Serial No. 680,804. 2 Claims. (Cl. 122—265.)



1. A boiler section constructed of two sheet metal walls and comprising a plurality of circulating tubes, a pair of inner headers communicating with said tubes, and a pair of outer headers communicating with said tubes.

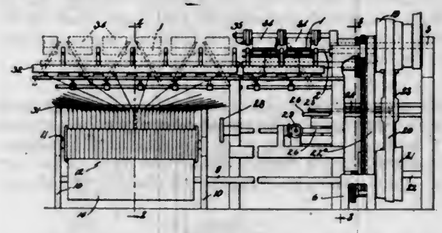
1,685,389. ELECTRIC HEATING ATTACHMENT FOR WINDSHIELD WIPERS. ERVIN ADAMS, Johnstown, Pa., assignor, by direct and mesne assignments, to Thomas Lochrie and Joseph B. Bell, Windber, Pa. Filed Feb. 17, 1927. Serial No. 169,067. 9 Claims. (Cl. 15—253.)



1. A windshield wiper comprising a squeegee including a head, a heater detachably connected to said head and comprising a core and a heating coil mounted upon said core, the latter having a hook at one end and an attaching device yieldably connected to its opposite end

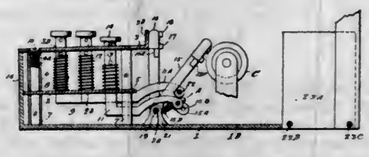
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1,685,390. WINDING AND UNWINDING YARNS OR THREADS. EDWARD J. ABBOTT, Wilton, N. H. Filed May 18, 1923. Serial No. 639,830. 15 Claims. (Cl. 242—35.5.)



1. That method of tensioning yarn while winding it from one package to another which comprises positively driving both the winding and unwinding packages, the surface speed of the winding package being greater than that of the unwinding package.

1,685,391. TYPEWRITER. JOSEPH M. ANGELETTI, New York, N. Y. Filed Dec. 14, 1925. Serial No. 75,322. 18 Claims. (Cl. 197—22.)



9. In a typewriter the combination of a casing having an open end wall and an open base extension, a plate having rows of slots mounted between the top and base pate of the casing to form two interiorly spaced compartments, the top plate having rows of slots communicating with the rows of the first mentioned slotted plate, of a plurality of approximately L shaped key-bars vertically movable through said rows of slots and means for returning said key-bars to their normally supported position, said means consisting of a compression spring involuting each vertical arm of said key-bars, and means on the bars adapted to engage said springs to compress same against the first mentioned slotted plate.

1,685,392. PRESERVATIVE PACKAGE AND PROCESS OF MAKING THE SAME. GEORGE W. BEADLE, Rye, N. Y., assignor to The Cellacote Company, Inc., a Corporation of New York. Filed Aug. 12, 1925. Serial No. 49,680. Renewed Dec. 17, 1927. 10 Claims. (Cl. 99—8.)



2. An article of manufacture consisting of a skin covered article having pores in its skin, and a non-adherent initially tensioned homogeneous sealing covering of cellulose completely enclosing said article with compressive force exerted peripherally thereof and acting to close said pores against the escape of moisture and entrance of air.

10. The method of treating perishable articles such as fruits, vegetables and the like, to preserve the same, which

includes completely enclosing the article in a homogeneous covering of hydrated cellulose in liquid condition, subjecting the covering to treatment to partially coagulate the same, treating the partially coagulated covering with an acid to complete the coagulation, treating the coagulated covering to neutralize the acid, and finally drying the covering to cause it to shrink and exert pressure on the article.

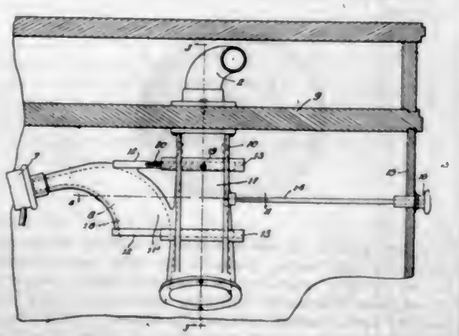
1,685,393. METHOD OF COVERING ARTICLES AND THE PRODUCT RESULTING THEREFROM. HAROLD I. BEADLE, New York, N. Y., assignor to The Cellacote Company, Inc., a Corporation of New York. Filed Oct. 25, 1927. Serial No. 228,547. 12 Claims. (Cl. 99—8.)



1. The method of preserving perishable articles such as fruits, vegetables and the like, from deterioration or decay, which consists in providing a container of hydrated transparent cellulose in moist condition and open at its end, placing the article to be preserved in said container, forcing the walls of the open end of the container laterally on the article to closely surround the same, and drying the container to cause it to contract tightly on the article and thereby form a transparent preservative covering.

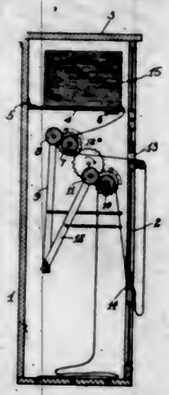
9. An article of manufacture, consisting of a perishable article, such as a fruit or vegetable, and a bag-like preservative container of transparent cellulose surrounding and inherently exerting compressive tension on said article, the walls of the open end of the container being displaced laterally on and closely embracing said article.

1,685,394. COMBINED PHONOGRAPH AND RADIO APPARATUS. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed June 30, 1924. Serial No. 723,114. 4 Claims. (Cl. 179—100.1.)



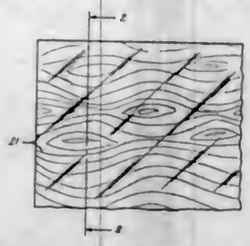
1. In a device of the character described, a phonograph, a radio loud speaker, an amplifying horn, a neck between said amplifying horn and said loud speaker and phonograph, guideways formed integral with said neck, an element having guides fixed thereon and adapted to slide in said guideways comprising two passageways, each passageway adapted to register with the horn, said element one adapted to form an operative connection between said horn and said phonograph, and the other between said horn and said loud speaker.

1,685,395. TOWEL CABINET. JOSEPH N. BORROUGHS, Oakland, Calif. Filed Apr. 16, 1923. Serial No. 632,250. 1 Claim. (Cl. 312—38.)



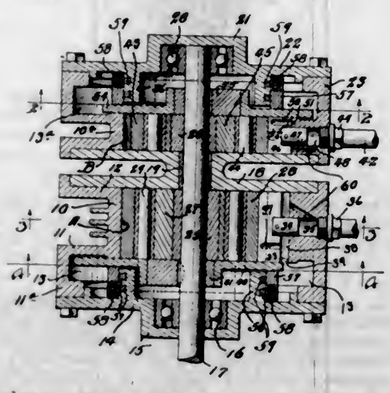
In a towel dispensing device, a cabinet having a towel compartment in its upper portion and a feeding roll compartment in its lower portion, a shelf separating said compartments and adapted to hold a supply of toweling, said cabinet having an upper opening to permit a portion of said toweling to pass therethrough to be exposed for use, and a lower opening to permit the used toweling to pass back into the cabinet, a feeding roll disposed between said towel compartment and said upper opening to be actuated by the movement of the toweling thereover, and a second roll adapted to be actuated by said first mentioned roll and operative to retract the used toweling back into the cabinet.

1,685,396. METHOD OF REPRODUCING ARTISTIC DESIGNS. ROBERT F. BROWN, Dayton, Ohio, assignor, by mesne assignments, to Oxford Varnish Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 2, 1925. Serial No. 12,774. 1 Claim. (Cl. 41—26.)



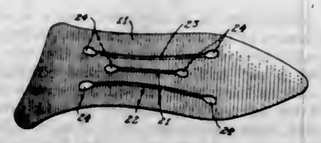
The method of reproducing artistic designs in simulation of the natural appearance of the surface of an article to be imitated, which comprises applying to the under or unexposed face of a transparent panel a single layer of pigment, the layer of pigment varying in thickness and corresponding in color to one of the colors of the natural article and the layer being in the form of an open design, which when applied leaves uncovered portions of the transparent surface being treated, and subsequently applying to said layer and to said uncovered portions of the transparent surface a layer of pigment corresponding in color to the dominating color of the natural surface being treated, whereby the color of the first layer of material wherever said layer varies in thickness will, when thus contrastly blended with the second layer, produce half tones and quarter tones as well as the full tones of the colors of the two layers of material applied to this transparent surface.

1,685,397. GYRATORY PUMP. JOHN O. CARREY, St. Louis, Mo., assignor to C. & C. Engineering Company, Inc., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 15, 1926. Serial No. 94,733. 17 Claims. (Cl. 230—145.)



1. In a gyratory pump a casing provided with a compression chamber, an eccentrically mounted member arranged for gyratory movement in said chamber for compressing fluid therein, an element mounted so as to project into said chamber and be retracted therefrom to maintain contact with the periphery of said member, an outlet duct in said element and leading into a high pressure chamber arranged in said casing, an outlet passage leading from said pressure chamber outwardly through one end of said casing, and a gyratory plate operable independently of and in correlation with said gyratory member for controlling said outlet passage.

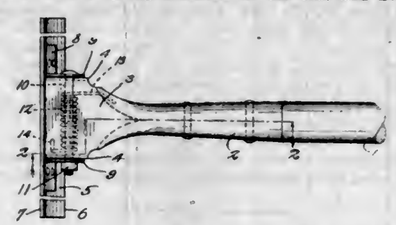
1,685,398. ARCH SUPPORT AND SHOE-SHANK REENFORCEMENT. FRANK G. DELDON, Brooklyn, N. Y. Filed Jan. 5, 1927. Serial No. 159,132. 3 Claims. (Cl. 36—76.)



1. A shoe shank reenforcement formed of sheet metal and having an arch-supporting member characterized by a pair of independently yieldable, longitudinal, portions at each side of the longitudinal center, both pairs of yieldable portions being transversely inclined toward said longitudinal center, and the inner yieldable portion of each pair having a greater yieldability than the outer portion of the pair.

1,685,399. SCRAPER. OSCAR FANBERG, Hensley, W. Va. Filed Aug. 31, 1926. Serial No. 132,759. 1 Claim. (Cl. 37—179.)

A scraper including a handle engaging ferrule having a broad flat end portion, downturned ears integral with the sides of said end portion, a sheet metal blade having both longitudinal edges curved to reinforce the blade longitudinally, a plate secured to and extending longitudinally of the blade having spaced ears struck therefrom for receiving between them the ears on the end portion of the ferrule, a pivot bolt extending through all of the ears, and a spring mounted on the bolt and housed



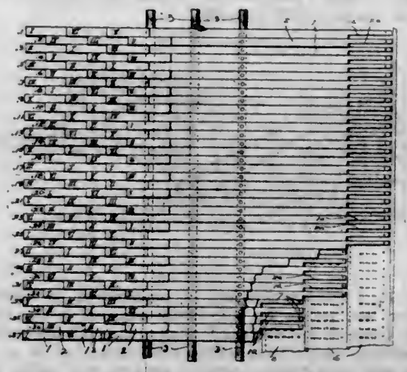
between the ears, one end of the spring engaging the end portion of the ferrule and the other end engaging the plate, thereby to hold the blade normally pressed against the free end of the flat portion of the ferrule at a point between the curved portions of the blade.

1,685,400. FLEXIBLE CORD OR STRIP PUZZLE. ERNEST L. FARROW, Cleveland Heights, Ohio; Pauline Farrow administratrix of said Ernest L. Farrow, deceased. Filed July 19, 1927. Serial No. 206,902. 5 Claims. (Cl. 273—159.)



1. A game or puzzle, comprising a flexible sheet slitted on adjoining parallel lines to form a narrow flexible portion and loop, a thin flat piece having a square opening with sides about equal in length to the width of said loop and adapted to expose a part of said loop when said piece is superposed upon said sheet, and a tie member adapted to interlock with said loop and to secure said sheet and piece non-rotatably but detachably together.

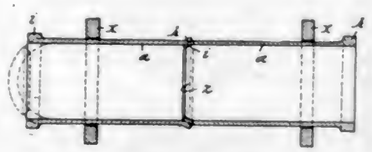
1,685,401. MUSICAL INSTRUMENT. FREDERICK W. FELLOWS, Los Angeles, Calif. Filed Apr. 19, 1923. Serial No. 633,109. 52 Claims. (Cl. 84—45.)



2. In a musical instrument, in combination, a series of tone producing elements, a key-board consisting of key-levers with their respective digital surfaces of sub-

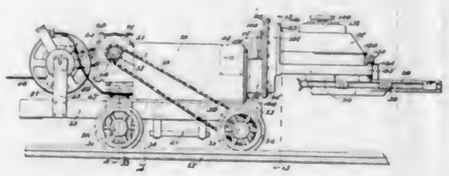
stantially the same shape and size, arranged in vertical tiers, side by side, the digital surfaces in each vertical tier being successively positioned rearwardly between parallel planes coincident with the opposite sides of said digital surfaces, all of the digital portions of alternate keys from left to right being in alignment horizontally and lying in the same plane; operative connections from said key-levers to said tone producing elementa, and a selective control mechanism for connecting said key-levers, by groups, said connections being adapted to connect each of said key-lever groups to a plurality of groups of tone producing elements, one group thereof at a time, the respective pitches of the tones produced by each of the groups of tone producing elements simultaneously connected being separated by the same series of intervals.

1,685,402. MANUFACTURE OF HIGHEST-PRESSURE CONDUITS. JULIUS GROSSWEISCHEDE and GEORG REICHENBECHER, Mulheim-Ruhr, Germany, assignors to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany, a German Corporation. Filed Jan. 24, 1927. Serial No. 163,132. 1 Claim. (Cl. 29—156.)



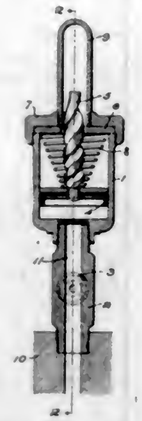
A method of producing turbine-tubes in preventing the production of germs of cracks, consisting in forming a blank from a thick plate of dense structure by simultaneous application of pressure and hot drawing with the aid of dies and mandrels of gradually decreasing diameter and of gradually increasing length a seamless tubular body of gradually decreasing diameter and of gradually increasing length of a special uniform structure, in producing in a manner known per se, during the drawing process an outwardly directed flange at the open end of said tubular body by not drawing the work completely through the die, and in cutting out the bottom of said tubular body to produce an inwardly directed flange.

1,685,403. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 1, 1918, Serial No. 260,708. Renewed Nov. 6, 1926. 193 Claims. (Cl. 262—28.)



1. In a mining machine, in combination, a swinging cutter bar, means for adjustably supporting the same, and common self-contained power operated mechanism selectively operative to swing said cutter bar or to adjust said supporting means to position said cutter bar, said mechanism being rendered operative to perform either of said functions by preventing its performance of the other.

1,685,404. LUBRICATING APPARATUS. GUSTAV JOHNSON, West Roxbury, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 25, 1925. Serial No. 52,388. 5 Claims. (Cl. 184—45.)



1. In a slow feed lubricant cup, the combination of a reservoir, a piston in said reservoir for forcing the lubricant therefrom, a spiral coil spring for forcing said piston toward the discharge end of said reservoir, a stem on said piston having a plurality of threads increasing in steepness away from said piston, a cover member for said piston having a threaded aperture adapted to cooperate with said threads and a cap on said cover for receiving and enclosing said stem.

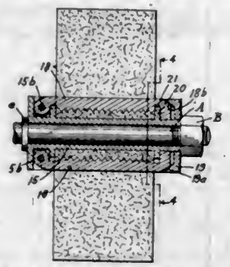
1,685,405. AUTOMOBILE RADIATOR CAP. NORMAN E. JOHNSON, Chicago, Ill. Filed Mar. 9, 1925. Serial No. 14,044. 2 Claims. (Cl. 220—24.)



1. The combination of a threaded inner member for screw attachment to the neck of a radiator, having spring means movable toward and away from the axis of said member, and a cap having an internal circumferential groove for said spring means, in which groove said spring means is held, having stop means in said groove, co-operating with said spring means to form a ratchet device in said groove, permitting relative rotation between said member and cap in one direction, but positively preventing relative rotation in the opposite direction, said spring means and groove co-operating to also prevent separation of said member and cap, and a packing between said member and cap to prevent leakage, said member being grooved peripherally below said other groove to receive said packing.

1,685,406. CLEANING AND POLISHING WHEEL. THEODORE P. KIMMAN, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 5, 1926. Serial No. 127,222. 6 Claims. (Cl. 15—230.)

1. A wheel for cleaning and polishing purposes comprising a hub, means on said hub providing radial recesses, strips of extensible material disposed with their intermediate portions in said recesses, retainer members arranged to cross said portions of said strips and to seat in said recesses, cooperating means on said hub and on said members for fixing the position of said members in



said recesses, said hub means also serving to position and maintain said strips in place, and means for forcing said members toward said hub securely to hold said strips in place.

1,685,407. DICYCLIC DERIVATIVES OF PENTAMETHYLENE AND PROCESS FOR THE MANUFACTURE OF SAME. CHARLES MANNICH, Frankfort-on-the-Main, Germany. Filed Oct. 15, 1926, Serial No. 141,887, and in Germany Oct. 27, 1925. 7 Claims. (Cl. 260—45.)

2. As new product 1-phenyl-3.4-trimethylene-pyrazolone which may be produced by treating the reaction product of esters of -keto-pentametbylene-carbonic-acids and phenyl-hydrazine with alkaline condensing agents, the new compound forming slightly coloured crystals melting at 183–184° C., not dissolving in water, but dissolving in the usual solvents, such as ethyl-alcohol, methyl-alcohol, and in caustic alkalis.

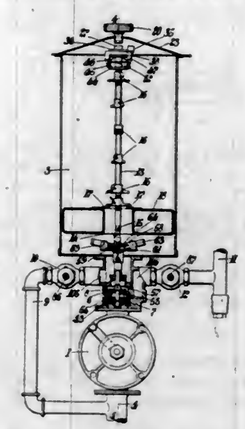
1,685,408. LUBRICANT-EXPELLING DEVICE. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 11, 1925. Serial No. 8,588. 9 Claims. (Cl. 221—47.4.)



5. A lubricating apparatus comprising, in combination, a lubricant-receiving part having a shoulder, a nozzle for engagement with said lubricant-receiving part, said nozzle including a sealing washer, a closure valve having a stem extending into adjacency to said sealing washer, and a lip located beyond and at one side of said stem, said lip adapted to engage behind one side of said shoulder of said lubricant receiving part whereby a tipping action of said nozzle relative to said lubricant-receiving part about said lip as a fulcrum will cause the end of said lubricant-receiving part to engage said stem to open said valve and whereby said washer will be pressed by the lubricant released through said valve against the head of the lubricant-receiving part to provide a tight seal between said nozzle and said lubricant-receiving part.

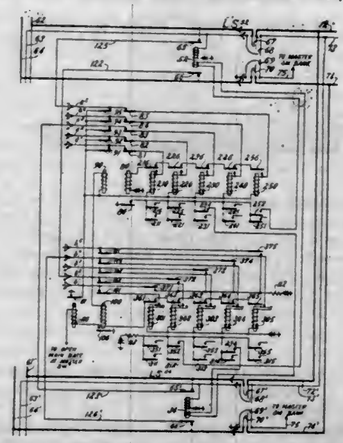
1,685,409. APPARATUS FOR DELIVERING MEASURED QUANTITIES OF LIQUIDS. EDWARD CHARLES FREDERICK OAKLEY, Norbury, England. Filed Jan. 27, 1928, Serial No. 250,050, and in Great Britain Aug. 31, 1926. 6 Claims. (Cl. 221—100.)

1. An apparatus for delivering measured quantities of liquid comprising in combination a pump, a storage tank connected to the suction side of said pump, a measuring vessel connected to the outlet side of said pump, a suction pipe connecting said storage tank and pump, a non-return valve located in said pipe, a valve chamber connecting said pump and measuring vessel, a valve casing secured within said valve chamber, a pair of valves located and operating within said valve chamber, a discharge pipe connecting said valve chamber and suction pipe, a valve in said discharge pipe, a delivery pipe connected to said valve chamber, a valve in said delivery pipe, mechanism within said measuring vessel comprising a quantity stop rod, a plurality



of stops on said rod, means for setting same in position for delivering a definite quantity of liquid, a float coacting with the stops on the quantity stop rod, means for guiding said float, means for closing the valves in the valve casing, means for maintaining said valves in the closed position, and means for opening said valves, mechanism without the measuring vessel comprising means for actuating the means within the vessel for setting the quantity stop rod and the means for opening and closing the valves in the valve casing, means for actuating the valves in the discharge and delivery pipes and means for actuating the pump.

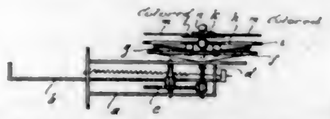
1,685,410. TELEPHONE SYSTEM. RUDOLPH F. STEHLIK, Chicago, Ill., assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Nov. 3, 1926. Serial No. 145,949. 17 Claims. (Cl. 179—18.)



1. In a telephone system, a group of lines, a preselecting lineswitch terminating each of said lines, a group of trunks, means in each lineswitch for connecting the asso-

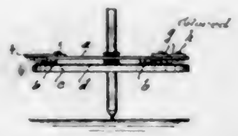
ciated line to one of said trunks, and a group of line relays less in number than the number of lines in said group of lines for controlling the connecting means in all said line-switches.

1,685,411. INTERCHANGEABLE TRANSPARENT DISK ON SPARK-PRODUCING TOYS WITH CHANGING PICTURES. CARL ARNOLD, Nuremberg, Germany. Filed Aug. 1, 1927, Serial No. 209,880, and in Germany July 8, 1927. 1 Claim. (Cl. 46—32.)



A spark producing toy with changing pictures, comprising in combination with a disk carrying cerium-stones and having apertures, an emery-disk underneath said cerium-stone disk, a vertical shaft, and a driving mechanism for rapidly rotating said shaft, a disk having apertures loosely mounted on said shaft above said cerium-stone disk flaps at the sides of said apertures, and differently colored transparent panes on the apertures and removably fixed on said disk by means of said flaps.

1,685,412. SPARK-PRODUCING TOY. CARL ARNOLD, Nuremberg, Germany. Filed Aug. 1, 1927, Serial No. 209,881, and in Germany Jan. 31, 1927. 2 Claims. (Cl. 46—32.)



1. In a spark producing toy, in combination with an emery disk a cerium-lever and cerium stones fixed on said lever so that they slide on the emery disk, an extension at one end of said lever and having apertures, flaps at the sides of said extension portion of said lever, and colored transparent panes placed over said openings and securely held in position by the folded over flaps of said lever.

1,685,413. FOUNTAIN PEN. FRANK M. ASHLEY, Brooklyn, N. Y. Filed Oct. 29, 1926. Serial No. 144,923. 10 Claims. (Cl. 120—47.)



1. A fountain pen comprising a pen-section, a barrel having a smooth cylindrical bore which is of increased diameter adjacent the inner end of the pen-section, a piston-rod, a piston carried thereby having a passage leading therethrough, and automatic means for opening said passage on the outward stroke of the piston and closing said passage on the inward stroke thereof.

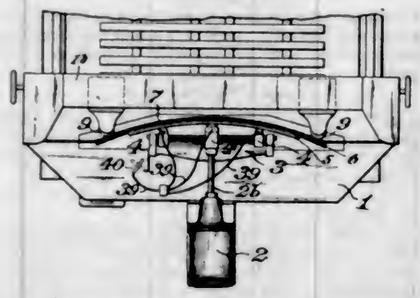
1,685,414. FOUNTAIN PEN. FRANK M. ASHLEY, Brooklyn, N. Y. Filed Sept. 23, 1927. Serial No. 221,436. 8 Claims. (Cl. 120—47.)

1. A fountain pen comprising a barrel having a reservoir therein, a feed plug having a bore extending therethrough, a tubular piston-rod, a piston thereon, a tube extending from said bore in said feed plug through said piston into said piston rod and contributing to form an annular passage between said piston-rod and tube, said piston and rod having



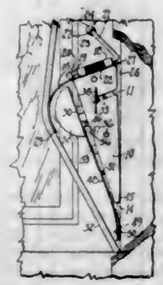
a passage leading from said reservoir to said annular passage to provide a continuous passage leading from said reservoir through said tube to the atmosphere.

1,685,415. SPRING-FORMING MACHINE. THOMAS F. BUCKLEY, Scranton, Pa. Original application filed Oct. 9, 1924, Serial No. 742,598. Divided and this application filed Dec. 16, 1925. Serial No. 75,745. 3 Claims. (Cl. 153—51.)



1. In a spring forming machine; the combination of a flexible resistance member; a formation plate; presser blocks, cooperating with said plate; and means for converting said presser blocks into electro-magnets to prevent release of formed springs at other than tempering temperature.

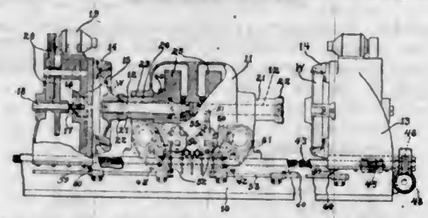
1,685,416. BURGLAR ALARM. THOMAS R. CASTLES, Portland, Oreg. Filed Apr. 5, 1927. Serial No. 181,172. 6 Claims. (Cl. 116—82.)



1. A burglar alarm consisting of an alarm member adapted to be actuated by a slight movement of a window sash and to then lock said sash against further movement, in combination with a locking member mounted on said alarm adapted to prevent movement of the opposite sash in the opposite direction.

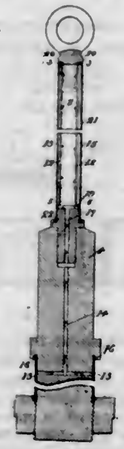
1,685,417. CAR-WHEEL BORING AND FACING MACHINE. LYNDON C. COLE, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed May 10, 1927. Serial No. 190,278. 9 Claims. (Cl. 29—26.)

1. A boring and facing machine comprising in combination, a work supporting head having work holding means thereon, a tool supporting head having a boring bar therein, a facing tool mounted coaxially with said boring bar in said tool supporting head, fluid means to force said facing tool axially relative to said boring bar, means admitting fluid through said bar to advance said facing tool, and means for simultaneously rotating said bar and facing tool.



6. A boring and facing machine comprising in combination, a work supporting head having work holding means thereon, a tool supporting head having a boring bar therein, a facing tool mounted coaxially with said boring bar in said tool supporting head, means to simultaneously rotate said boring bar and facing tool, means to slowly feed said work supporting head toward said tool supporting head, and means to rapidly traverse said work supporting head toward and away from said tool supporting head.

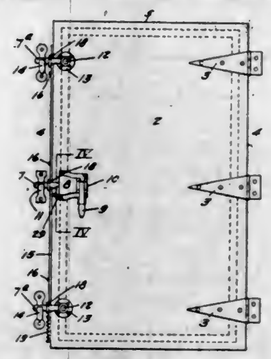
1,685,418. SLEEVE ASSEMBLY FOR VALVE STEMS, PISTON RODS, SPINDLES, PLUNGERS, AND THE LIKE. CHARLES V. FOULDS, Berkeley, Calif., assignor to The Pelton Water Wheel Co., San Francisco, Calif., a Corporation of California. Filed Feb. 12, 1927. Serial No. 167,625. 6 Claims. (Cl. 137—111.)



5. In combination with a pressure chamber, a rod therein and extending exteriorly thereof, a shell embracing the rod and affording a protecting cover therefor, portions of said rod and shell lying in spaced relation affording a passage therebetween extending endwise of the rod and other portions of said rod and shell at points throughout their length lying in supporting contact to prevent the collapsing of the shell, a gland with which the surface of said shell contacts, and means for providing a fluid tight joint connection between the shell and rod at a point within the chamber.

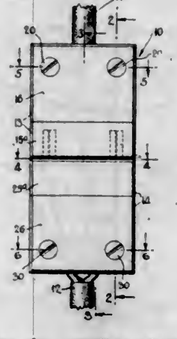
1,685,419. DOOR-LATCH CONSTRUCTION. JOHN EDWARD GLOEKLER, Pittsburgh, Pa. Filed Apr. 27, 1927. Serial No. 186,931. 6 Claims. (Cl. 292—45.)

1. The combination with an apertured door casing and a hasp thereon, of a door provided on its outer side with a latching bolt and a lifting handle therefor, a longitudinally movable operating bar for the handle extending through the door, a lever for the bar pivotally mounted on the inside of the door and pivoted to the bar, and a



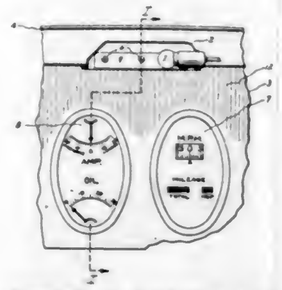
loosely mounted horizontally arranged bowed bearing arm for said lever extending beyond the inside of the door.

1,685,420. ELECTRIC-CABLE-COUPLING CONNECTER. JOHN HIGHAM, Port Richmond, N. Y., assignor to Display Stage Lighting Co. Inc., a Corporation of New York. Filed Feb. 28, 1928. Serial No. 257,564. 4 Claims. (Cl. 173—332.)



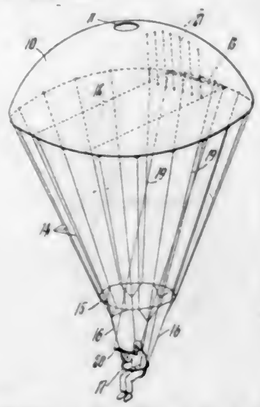
1. In connecters for coupling electric insulated wire cables of the character described, a block formed of machined fibrous sheet material comprising a body piece having a cut away portion and a cover piece, said cover piece being substantially equivalent in shape and dimensions to said cut away portion, spaced metallic contact members driven through an uncut portion of the body piece, said pieces having mating recesses bored in surfaces thereof to form a housing about an inner end of each of said members when the cover piece is applied to replace said cut away portion, a binding post carried by each of said inner ends within said housing, screw fastening means threaded into the body piece and through the cover piece for clamping said pieces together, said pieces having a passage cut to extend between them communicating their mated recesses with the exterior of the block, an end portion of the cable extending through said passage, conductor wires of said cable being secured to said binding posts, the walls of said passage formed with a plurality of smoothly cut ridges extending at least partially therethrough, the insulating portions of the cable end being pressed against and conformed to the contour of said ridges to serve as a strain relief, said passage being proportioned in cross section to securely clamp the cable end portion between said pieces yet permit the latter to come into abutment without injuring the cable insulation.

1,685,421. DASH LIGHT. EDWARD E. HUNTINGTON, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 26, 1925. Serial No. 77,796. 4 Claims. (Cl. 240—8.16.)



3. In an automobile, a combination which includes a dash board having a plurality of instruments disposed thereon; a lamp, and a channel shaped housing parallel to the board partially enclosing the lamp and reflecting the light thereof, said housing being provided with a longitudinal slot shaped to restrict the light to the portion of the board bearing the instruments.

1,685,422. PARACHUTE. DANE HURLBURT, Cannes, France. Filed Dec. 9, 1925. Serial No. 74,315. 11 Claims. (Cl. 244—21.)



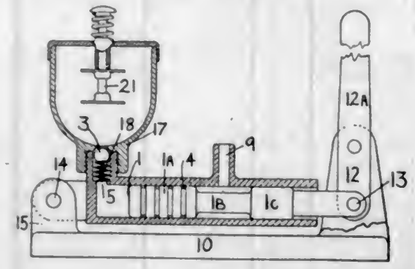
1. In combination, a parachute, an elongated sheet disposed beneath the parachute having its ends secured to the parachute respectively at opposite edge portions thereof, and means for tilting said sheet from horizontal position.

1,685,423. METHOD OF MAKING TENNIS BALLS. LEE R. HURLBURT, Jeannette, Pa., assignor to Pennsylvania Rubber Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Nov. 8, 1927. Serial No. 231,957. 1 Claim. (Cl. 18—56.)



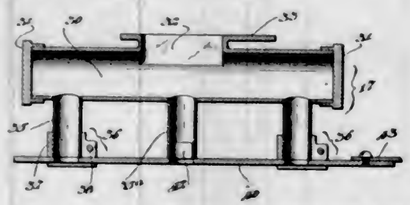
As a step in the manufacture of hollow rubber spheres the method herein described which consists in preforming two hemispherical shells of semi-cured and relatively plastic rubber with edges shaped to complementary tongue and groove, and vulcanizing into an integral sphere of elastic but non-plastic material, the shells while held under pressure to edge-to-edge engagement.

1,685,424. EMULSIFICATION APPARATUS. GUY CLEMENT HURRELL, Blackheath, London, England. Filed Nov. 12, 1927, Serial No. 232,919, and in Great Britain Nov. 13, 1926. 5 Claims. (Cl. 99—2.)



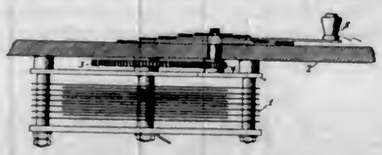
5. Means for effecting emulsification of liquid comprising a cylinder with means for delivering liquid to the cylinder, a plunger closely fitting within said cylinder said plunger and cylinder movable relatively to one another in order to force such liquid between the plunger and the cylinder and emulsify it, a container for the liquid to be emulsified mounted upon one of said relatively movable parts and an automatic valve at the junction of the container and such relatively movable part.

1,685,425. SUBDIVIDING ATTACHMENT FOR MEASURING MACHINES. JOHN R. LITTY and TRUED B. LUNDIN, Philadelphia, Pa. Filed Mar. 19, 1927. Serial No. 176,672. 5 Claims. (Cl. 107—29.)



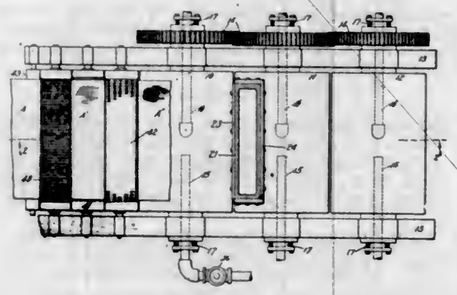
5. A sub-dividing attachment for a measuring machine comprising a receptacle, a plurality of conduits communicating with the interior of the receptacle and forming outlets therefrom, valve slides secured to the bottom of the conduits, and a valve adapted to operate in the slides for simultaneously opening and closing the ends of the conduits.

1,685,426. STATION SCALE. SIEGMUND LOEWE, Berlin-Friedenau, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 2, 1927, Serial No. 172,136, and in Germany Oct. 22, 1925. 3 Claims. (Cl. 116—124.)



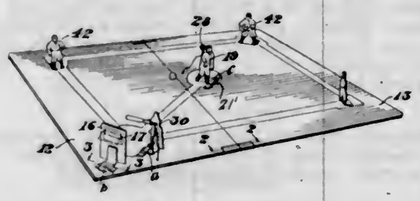
1. An arrangement for varying and indicating the angular position of a rotatable member comprising a reduction driving system for said rotatable member, an indicating scale comprising a flat spiral coil separated between its turns cooperating with the driving end of the system, the driving end of the system comprising a flat member extending through the separations between the spiral coils, and means on said flat member indicating on said scale the angular position of the driving end of the system.

1,685,427. MACHINE AND PROCESS FOR DRYING CRINKLED PAPER. WILLIAM A. LORENZ, West Hartford, Conn., assignor to The Otaka Fabric Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 9, 1927. Serial No. 211,761. 5 Claims. (Cl. 34—48.)



1. In a paper drying machine, a plurality of heated cylinders about which the paper is adapted to successively pass, and means for holding the paper with progressively increasing pressures against the cylinders.

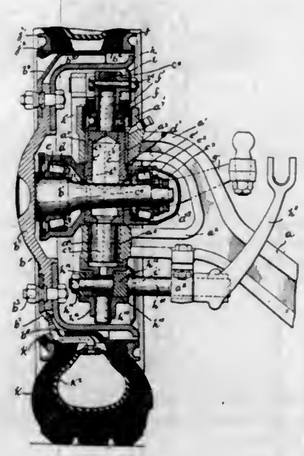
1,685,428. TOY BASEBALL GAME. MICHAEL J. LOWRY, Los Angeles, Calif. Filed Nov. 23, 1926. Serial No. 150,238. 2 Claims. (Cl. 273—89.)



1. In a game apparatus, a board, a pitcher embodying a plate formed to represent a miniature base ball player, a keeper on said board, a tongue on said plate engageable with said keeper to detachably secure said plate stationary on said board, a vertically swinging arm pivoted on said plate, a ball receiving pocket mounted on the arm, spring means for actuating the arm to throw the ball from the said pocket, a cord attached to said arm adapted to be manually pulled to retract said arm in opposition to said spring, and a stop on said plate for limiting forward movement of said arm.

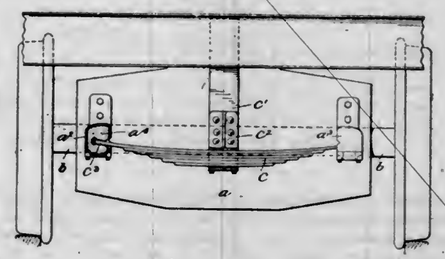
1,685,429. BRAKE. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 10, 1924. Serial No. 719,225. 1 Claim. (Cl. 188—194.)

In a wheel having a spindle formed integrally with the wheel disc and a brake for the wheel, a knuckle for the spindle, a knuckle pin rigidly secured to said knuckle and carried with an axle to permit turning of the wheel, brake shoes, an extension on the upper end of the knuckle pin for anchoring the brake shoes to the knuckle pin, a bearing, a mount therefor on the axle below the knuckle pin, said



mount closing the bottom of the knuckle pin aperture, as well as housing the bearing, and means mounted on said bearing and on the axle to apply said brake shoes.

1,685,430. SUSPENSION FOR ELECTRIC RAILWAY MOTORS. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed July 6, 1927. Serial No. 203,717. 2 Claims. (Cl. 105—139.)

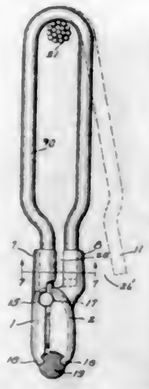


1. In combination with a railway truck, a motor mounted on the axle, housings mounted upon the nose of the motor, blocks of yielding nonmetallic material disposed within the housings, and a leaf spring carried rigidly with the bolster transom of the truck and having its ends disposed within the blocks of yielding non-metallic material.

1,685,431. TROLLEY-WIRE CLAMP. SAMUEL S. MATTHES, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Sept. 7, 1927. Serial No. 217,939. 8 Claims. (Cl. 191—40.)

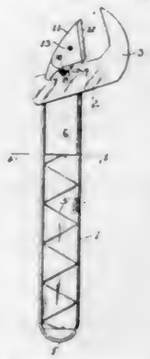
1. A trolley wire clamp comprising a pair of clamping members, a groove in each member to receive the ends of a suspension member and one end of the suspension member permanently secured in one of the grooves, means detachably holding the other end of the suspension member, jaws on the lower edges of the clamping members to grip the trolley wire, securing means to draw the clamping

members together and into contact with the trolley wire, enlarged integral means on each end of the securing means to prevent withdrawal of the securing means and coacting



means on the clamping members to prevent relative rotation of the clamping members when the securing means is partially withdrawn.

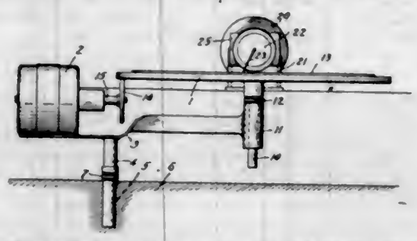
1,685,432. OPEN-END ADJUSTABLE WRENCH. HOMER A. MEAD, Turlock, Calif. Filed July 3, 1926. Serial No. 120,499. 1 Claim. (Cl. 81—110.)



A wrench of the class described comprising a hollow formed sheet metal handle having two flat sides, and two rounded sides, one of said rounded sides having the edges of the metal brought substantially in contact, one end of said handle being rounded up, the other end having a hardened jaw fixed therein, the face of said jaw being approximately parallel with one edge of said handle, there being an opening through the rounded sides adjacent said jaw, a shank adapted to slide through said opening at a slight angle, notches in said shank, a transverse pin in said opening adapted to be engaged by said notches, a jaw on said shank approximately parallel with said hardened jaw, an abutment slidable in said handle and having an angle to suit the angle of said shank, and a flat zigzag shaped spring extending from said abutment to the end of the handle and adapted to press said abutment against said shank.

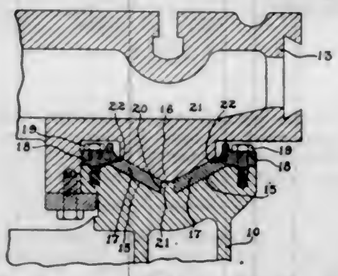
1,685,433. PHONOGRAPH. DANIEL D. MOUNTS, Los Angeles, Calif. Filed Mar. 8, 1927. Serial No. 173,674. 2 Claims. (Cl. 274—12.)

1. In a phonograph, a supporting arm pivoted intermediate of its ends, a turn-table on one end of the arm, rotary drive mechanism mounted on the opposite end of the arm so as to counterbalance the turn-table, a frictional driving connection between the drive mechanism and the turn-table, and a stationary sound box having a stylus adapted to engage the groove of a reproducing



record mounted on the turn-table for swinging the supporting arm so as to radially move the reproducing record relative to the stationary sound box in accordance with travel of the stylus along the groove of the record.

1,685,434. BEARING STRIP FOR MACHINE-TOOL WAYS. ALBERT WILLIAM PARKES, Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 4, 1925. Serial No. 54,450. 4 Claims. (Cl. 308—3.)



1. A machine tool comprising in combination, a base, a reciprocatory table thereon, ways on the base for said table, a bearing strip for said table on said ways, an integral projection on said base forming an abutment for one edge of said bearing strip, and a clamping strip engaging the opposite edge of said bearing strip for retaining it rigidly in position.

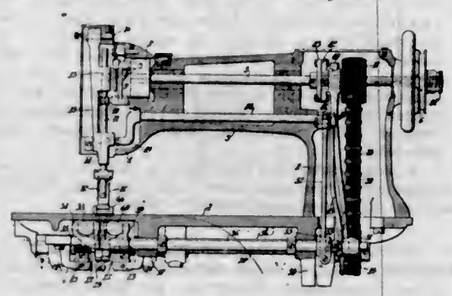
1,685,435. DOG HARNESS. GEORGE W. PHILBRICK, Winthrop, Mass. Filed July 2, 1927. Serial No. 203,077. 4 Claims. (Cl. 54—71.)



1. A dog harness comprising a pair of oblong collars, formed to loosely surround the fore legs of a dog and move lengthwise thereon; means for supporting the collars side by side in close proximity to the body and permitting endwise movement of the collars on the legs, said means including a back strap extending across the back and attached at its ends to the outer side portions of the collars; and a pull strap attached at its ends to the rear portions of the collars, extending loosely across the back, and provided with means for engaging a leash, the arrangement being such that when the leash is loose or

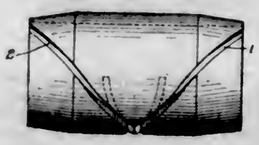
detached, the collars hang loosely and permit free movements of the fore legs, and when the leash is attached and held, the pull strap may be tensioned by a pulling dog, so that the collars are drawn rearwardly against the front sides of the fore legs to impede movements thereof.

1,685,436. FEEDING MECHANISM FOR SEWING MACHINES. JOHN C. RINGE, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 10, 1927. Serial No. 160,015. 8 Claims. (Cl. 112—208.)



1. Feeding mechanism for sewing machines comprising, in combination, an endwise reciprocatory needle, means for imparting lateral work-feeding movements to said needle, a main feed-dog having work-feeding movements at one side of the work in unison with the feeding movements of said needle, operative connections for actuating said main feed-dog, an auxiliary feed-dog having work feeding movements at the same side of the work as the main feed-dog, and means for actuating said auxiliary feed-dog in differential relationship with respect to said main feed-dog and needle-feed.

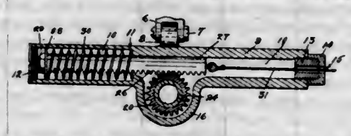
1,685,437. CONNECTER FOR SECTOR-SHAPED CONDUCTORS. ATLEE B. SAUERMAN, Pittsburgh, Pa., assignor, by mesne assignments, to General Cable Corporation, a Corporation of New Jersey. Filed Mar. 24, 1926. Serial No. 97,000. 1 Claim. (Cl. 173—263.)



A relatively infusible sleeve adapted to be soldered to place, and to effect electrical union of two sector-shaped conductors, the sleeve being sector-shaped in cross-section and being ported by a transversely extending opening, such opening extending through one angle of the said sleeve, the web of material of which the sleeve consists being through another angle continuous, unbroken by such elongate opening.

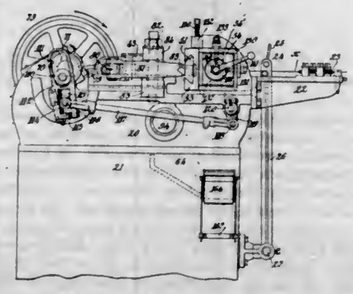
1,685,438. LIGHT-CONTROL APPLIANCE. ALBERT A. SAVASKY, Cleveland, Ohio, assignor to The Pathfinder Accessories Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed July 7, 1926. Serial No. 120,923. 1 Claim. (Cl. 240—62.)

In an appliance of the character described for use with an automobile steering element, the combination of a structure including vertically and horizontally extending hollow sections in communication with each other, means for attaching said sections to the front cross bar of an automobile, a sleeve mounted to turn in the vertically disposed section, a pinion secured to the lower portion of said sleeve, a spring actuated rack adapted to reciprocate in the horizontally disposed section and in mesh



with said pinion, a spring wire connecting one end of said rack with said steering element and a light including a stud fixed in said sleeve.

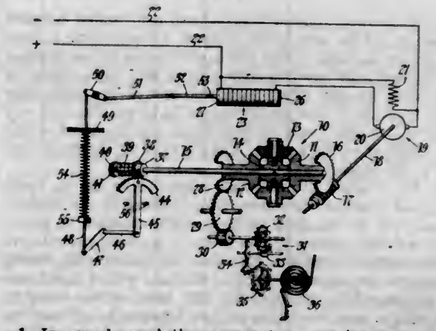
1,685,439. NAIL-MAKING MACHINE. ROBERT W. STROUT, Brooklyn, N. Y., assignor, by mesne assignments, to E. W. Bliss Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 19, 1926. Serial No. 82,264. 19 Claims. (Cl. 10—49.)



1. In a nail machine, wire-gripping means, a swaging hammer and wire-cutting means, with nail head-adjusting means comprising a normally stationary frame carrying the cutting means, said frame mounted adjustably on the main frame of the machine, and movable longitudinally of the wire to adjust the cutting means, and means for fastening said adjustable frame fixedly to the main frame after its adjustment.

11. In a nail machine comprising a driving shaft and reciprocating wire feed, means for operating said feed comprising elliptical gears driven from said shaft, and through which the feed is reciprocated, whereby to impart to the feed a quick feeding stroke and slow return stroke, each having a gradual acceleration and retardation.

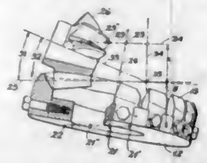
1,685,440. SPEED-REGULATING MECHANISM. HARRY L. TANNER, Brooklyn, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Sept. 14, 1927. Serial No. 219,546. 9 Claims. (Cl. 171—229.)



1. In speed regulating apparatus, a prime mover, an electrical speed control system for said prime mover including a control circuit and a variable resistance element

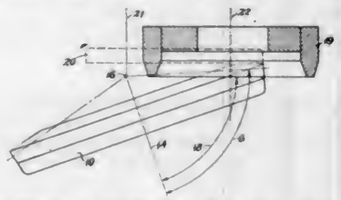
in said circuit, said speed control system being adapted to control the speed of said prime mover in accordance with the variation of the resistance of said resistance element, an epicyclic gear train to one member of which the prime mover is connected, speed limiting means connected to another member of the gear train, and means for controlling said variable resistance element including a pinion having a yielding connection with a third member of the gear train, a member connected with said pinion for actuation thereby, and a spring associated with the member for moving it to vary the resistance of the resistance element.

1,685,441. METHOD OF PRODUCING GEARS. ERNEST WILDHABER, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Feb. 28, 1927. Serial No. 171,607. 32 Claims. (Cl. 90—4.)



1. The method of producing a pair of beyel gears which consists in generating the side tooth surfaces of one member of the pair two sides simultaneously, by moving a pair of cutting edges in concentric curved paths across the face of a tapered gear blank, while imparting a relative rolling movement between said cutting edges and the blank in the manner of a gear rolling on a crown gear whose axis intersects the axis of the blank in its apex, and generating the side tooth surfaces of the other member two sides simultaneously by moving a pair of cutting edges in concentric curved paths across the face of a tapered gear blank while imparting a relative rolling movement between said tools and blank in the manner of a gear meshing with a crown gear whose axis is offset from the blank axis.

1,685,442. METHOD OF PRODUCING BEVEL GEARS. ERNEST WILDHABER and ALLAN H. CANDEE, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed June 3, 1926. Serial No. 113,550. 39 Claims. (Cl. 90—4.)



1. The method of producing a bevel gear which consists in generating its side tooth surfaces by imparting a relative motion between a tool and a gear blank in the manner of a tapered gear meshing with a basic gear, other than its mate, with its axis offset from the axis of the basic gear while effecting a relative movement between the tool and blank to produce teeth on the blank which extend along lines inclined to the straight generatrices of the pitch surface of the blank.

20. The method of producing a bevel gear having teeth extending longitudinally along lines inclined to the straight generatrices of its pitch surface, which consists in generating one side surface of the teeth by imparting a relative rolling motion between a tool and the gear blank, during cutting, in the manner of a gear meshing with a basic gear and in generating the opposite side faces of the teeth by imparting a relative rolling motion between a tool and the blank, during cutting, in the manner of a gear meshing with a basic gear, other than the first gear, with its apex offset from the axis of said basic gear.

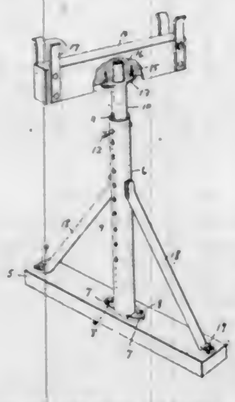
1,685,443. METHOD FOR THE MANUFACTURE OF PLASTIC COMPOUNDS. GEORGES EMMANUEL ZELGER, Montreuil, France, assignor, by mesne assignments, to du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 6, 1925, Serial No. 21,197, and in France Mar. 10, 1925. 5 Claims. (Cl. 106—40.)

5. A plastic compound consisting of a mixture of 100 parts of acetylcellulose with 20 parts of monoethyl-diphenyl phosphate.

1,685,444. METHOD FOR THE MANUFACTURE OF PLASTIC COMPOUNDS. GEORGES EMMANUEL ZELGER, Montreuil, France, assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del., a Corporation of Delaware. Original application filed Apr. 6, 1925, Serial No. 21,197, and in France Mar. 10, 1925. Divided and this application filed July 30, 1926. Serial No. 126,102. 2 Claims. (Cl. 106—40.)

2. A plastic compound comprising a mixture of acetylcellulose with phosphoric esters containing both aliphatic radicals and halogenated aromatic radicals.

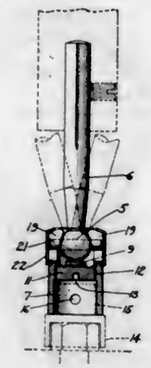
1,685,445. ADJUSTABLE SCAFFOLD JACK. LINUS BASH, Tulsa, Okla. Filed Sept. 15, 1927. Serial No. 219,702. 1 Claim. (Cl. 304—4.)



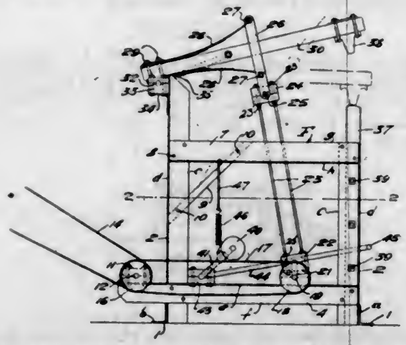
In a jack of the character described, a base, a hollow standard secured to the base intermediate its ends and extending vertically therefrom, a bar vertically slidable within the standard, means whereby the bar may be secured at predetermined points within the standard, a horizontal plate at the upper end of the bar, said bar being formed with a bore extending inwardly at its upper end, an elongated cross bar, a bore extending inwardly at the intermediate portion of the cross bar, a pin adapted to project from the bore of the bar for engagement within the bore of the cross bar, and means between the horizontal plate and the cross bar for securing the same together.

1,685,446. UNIVERSAL JOINT. GEORGE W. BENEDICT, Minneapolis, Minn., assignor to Mid-West Manufacturing Company, Minneapolis, Minn., a Corporation of South Dakota. Filed May 11, 1922. Serial No. 560,192. 1 Claim. (Cl. 64—91.)

A universal joint including a cylindrical member and a spheroidal element adapted to be received within one end of the member, the outer end portion of said member having its interior surface curved substantially to conform to the external surface of the spheroidal element whereby outward movement of the element is prevented, said cylindrical member having an interiorly threaded portion, and a raised abutment fitting within the cylindrical member and adapted to be received in threaded engagement within said member and adjustable relatively to the interior curved surface of the socket to the spheroidal element to prevent inward movement of the spheroidal element and take-up wear and play in the parts.

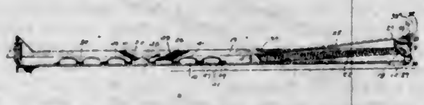


1,685,447. POWER HAMMER. WILLIAM W. BIELER, Hays, Kans. Filed Mar. 9, 1926. Serial No. 93,526. 1 Claim. (Cl. 78—32.)



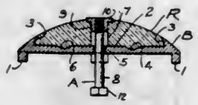
A power hammer comprising a stand having an anvil located thereon, a shaft having angularly disposed end portions, a bearing receiving one end portion and mounted upon the stand, a helve attached at a point between its ends to the other end portion of the shaft and disposed transversely of the first mentioned end portion thereof, leaf springs mounted at the opposite sides of the helve, and having end portions secured to the helve at the first mentioned portion of said shaft, a hammer head carried by the helve and adapted to engage the anvil and power operated means connected with the free ends of the leaf springs.

1,685,448. FILING STRUCTURE. THOMAS C. BUTTERWORTH, Mill Valley, Calif. Filed July 7, 1926. Serial No. 121,027. 3 Claims. (Cl. 129—1.)



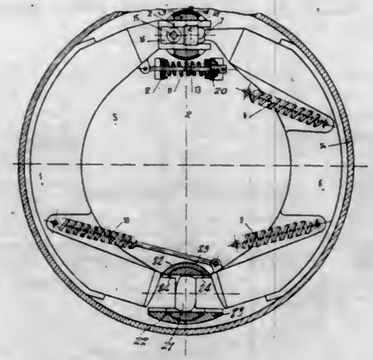
1. A filing structure having a bottom, detachable members adjacent one end of the structure adapted to retain sheets having apertures therein by passing through said apertures, said structure having an end with apertures therein, said members comprising open spring loops each having a pair of arms extending respectively through said apertures, the upper arm of each loop having a raised portion over which the sheets may be passed, said raised portion functioning to hold the sheets temporarily in thrown-back position, the legs of the loops having arcuate end portions which fit around and resiliently press in opposite directions against the edges of said end surrounding said apertures.

1,685,449. TRAFFIC BUTTON OR SIGNAL. DAVID H. DURAND, Denver, Colo. Filed Sept. 8, 1927. Serial No. 218,312. 1 Claim. (Cl. 88—1.)



A traffic button comprising a base member provided with depending lugs, means for anchoring the base member in applied position, and a reflector mounted upon the base member, said anchoring means coacting with the reflector to hold the reflector in applied position upon the base member, opposed faces of the reflector and base member having interfitting lugs and recesses, each substantially prism form.

1,685,450. BRAKE OF THE EXPANDING-SHOE TYPE. GUIDO FORNACA, Turin, Italy. Filed Sept. 20, 1926, Serial No. 136,592, and in Italy Sept. 28, 1925. 6 Claims. (Cl. 188—78.)



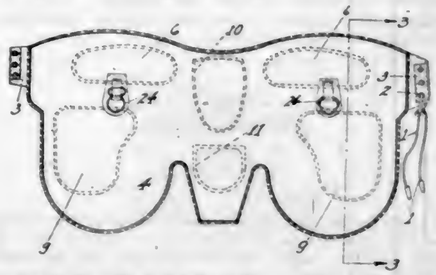
1. In a brake of the expanding shoe type, the combination with a brake drum, shoes cooperating with said drum, a supporting member, and a cam in the latter for operating said shoes, of a fork on one end of one of said shoes, a thrust member in which said fork is slidably mounted, a bearing in said supporting member in which the thrust member is rotatably mounted, and a curved head at the adjacent end of the other shoe fitted in said fork to receive and transmit the thrust according to the direction of rotation of the brake drum.

1,685,451. METHOD OF TREATING PEARL CHIPS AND PRODUCT. GEORGE H. GEBHARDT, Muscatine, Iowa. Filed Dec. 21, 1927. Serial No. 241,721. 9 Claims. (Cl. 8—5.)

9. The method of treating pearl chips for increasing their beauty, comprising polishing the pearl chips, subjecting the pearl chips to the action of a liquid dye in the

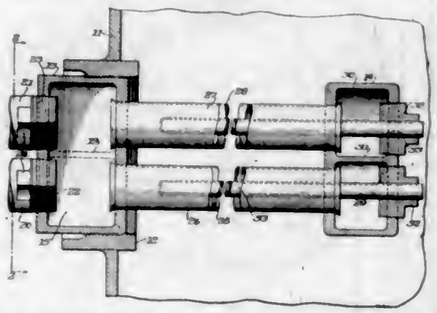
presence of a substance which tends to open the pores of the pearl chips and lead in the dye, again polishing the dyed pearl chips, and then subjecting the pearl chips to the action of a substance which serves to fix the dye and hold the polish.

1,685,452. ATHLETE'S PROTECTIVE HARNESS. HUGO GOLDSMITH, Cincinnati, Ohio, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 5, 1927. Serial No. 224,236. 6 Claims. (Cl. 2—23.)



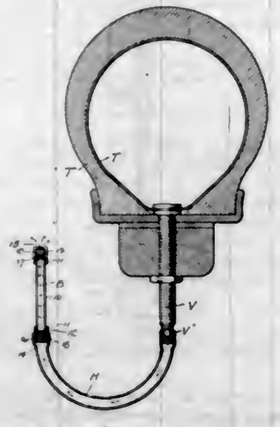
1. Football protective harness comprising the combination of a waist enclosing protective garment, and a pair of trousers, with interconnecting means between said garment and said trousers, said means connected to the trousers well below the waist line so that clearance will be provided which will permit a jersey to be worn either next to the body or between said garment and said trousers.

1,685,453. WATER-HEATING UNIT. ADOLPH T. JOHANSON, Chicago, Ill., assignor of one-half to Milton E. Page, jr., Chicago, Ill. Filed May 20, 1927. Serial No. 192,841. 2 Claims. (Cl. 257—255.)



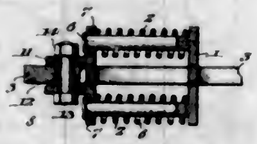
1. A water-heating unit for boilers, comprising in combination, an outer externally-threaded coupling adapted to be screwed into a threaded opening in the boiler-wall and divided into three chambers, four tubes supported by said coupling and adapted to be positioned on the inside of the boiler to be heated by the hot water of the latter, two of such tubes connecting individually to two of said chambers, the other pair of tubes both connecting with the third chamber, an inner coupling divided into two chambers, one of said individual tubes and one of said pair connecting with one chamber of the inner coupling, the other two tubes connecting with the remaining chamber of the inner coupling, said inner coupling being supported by said tubes, internal tubes inside of said four tubes closed at their front ends and open at their rear ends to connect with the hot water of the boiler, plugs in said inner coupling carrying said internal tubes, means to admit water to be heated to said first coupling, and means to discharge the heated water from said first coupling.

1,685,454. TESTING DEVICE FOR VALVES. CARL JOHNSON, Los Angeles, Calif. Filed June 1, 1926. Serial No. 113,090. 4 Claims. (Cl. 73—51.)



4. A testing device for tire valves comprising a body having a transparent portion through which liquid in the body can be viewed, the body being provided with an inlet and an outlet, and valves normally closing the inlet and outlet so as to confine a quantity of liquid in the body, the inlet valve opening inwardly of the body and the outlet valve opening outwardly of the body.

1,685,455. COMBINED WEAR PLATE AND CENTERING DEVICE FOR DRAFT-RIGGING KEYS FOR RAILWAY CARS. SYLVESTER L. JOINER, McGregor, Tex. Filed Apr. 14, 1926. Serial No. 102,020. 4 Claims. (Cl. 85—5.)



3. In combination with a draft key, of a combined wear plate and centering device comprising an inner plate provided with a slot through which passes the key which is adapted to bear against draft rigging, an attaching plate having a draft key receiving slot and provided with openings and having means for securing it to the key, pins extending from the main plate and slidable through the openings in the attaching plate, and coiled springs disposed on the pins and interposed between the said plates.

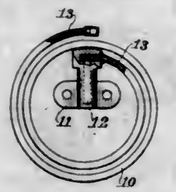
1,685,456. SHELF STRIP. JACOB KOCH, Buffalo, N. Y. Filed Mar. 29, 1927. Serial No. 179,373. 1 Claim. (Cl. 40—17.)



A device of the class described formed from a single sheet of metal stamped to provide an oblong flat body having means on the longitudinal edges thereof for slidably

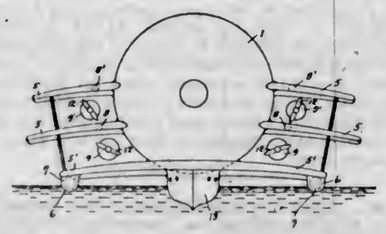
holding a card, said means terminating a distance from each end of the body, and each end of the body at its edge being stamped to form a projection V-shaped in cross section and tapering inwardly.

1,685,457. PRESSURE-RESPONSIVE INSTRUMENT OF THE BOURDON SPRING TYPE. DONALD C. LAMB, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed June 9, 1927. Serial No. 197,644. 3 Claims. (Cl. 73—109.)



3. In apparatus of the character described, a Bourdon tube of resilient metal having substantially parallel opposing walls in close proximity to each other, a core of resilient metal substantially filling the space defined by the walls and a support for the tube rigidly connected to the latter, the said core being rigidly connected with the tube at the point of connection of the latter with the support and being free to move relatively to the tube at its opposite end.

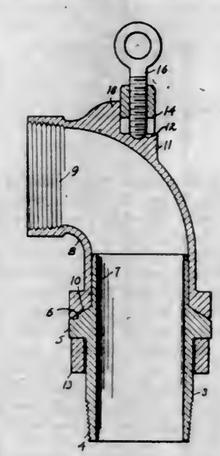
1,685,458. AIRSHIP. LEONARD P. LIDBACK, Honolulu, Territory of Hawaii. Filed Feb. 1, 1928. Serial No. 251,129. 1 Claim. (Cl. 244—6.)



An airship having a container for gas, a boat-shaped cabin swung from the bottom of the container, a plurality of sets of wings projecting laterally on both sides of said container, the lowermost wings of each set extending entirely across the ship and on top of the cabin, and gasoline containing pontoons disposed at the extremities of the lower wings.

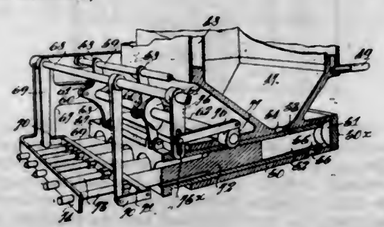
1,685,459. COUPLING. JOHN W. MACCLATCHIE, Compton, Calif. Filed Aug. 31, 1925. Serial No. 53,486. 2 Claims. (Cl. 285—108.)

1. In pipe coupling, a fixed conduit having an outwardly flanged end and a substantially uniform bore terminating in a downwardly and outwardly inclined seating surface extending to the outer periphery of the flanged end, a displaceable conduit having a cooperating upwardly and inwardly inclined seating surface and an end projecting an appreciable distance axially beyond said cooperating seating surface at the inner periphery of said cooperating seating surface and adapted to be guided by the inclined seating surface of the fixed conduit for snug telescopic reception of the projecting end of the displaceable conduit in the bore of the fixed conduit so as to engage the cooperating seating surfaces, means for supporting the displaceable conduit permitting turning thereof relative to its supporting means, a yoke pivoted to the supporting means for elevating the displaceable conduit, a seat on the fixed conduit adapted to receive the yoke when the displaceable conduit has been elevated sufficiently to bring the cooperating seating surfaces into proximate relation, the yoke and the projecting end of the displaceable conduit being of a



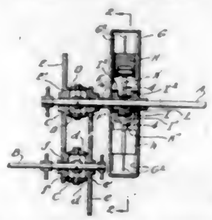
relative length initiating guiding engagement of the projecting end of the displaceable conduit by the inclined seating surface of the fixed conduit an appreciable distance in advance of elevation of the yoke sufficiently to clear and overlie the seat on the fixed conduit, and clamping means on the yoke adapted to engage the seat for drawing the cooperating seating surfaces into tight engagement.

1,685,460. DEPOSITING APPARATUS. WILSON R. MYERS and BERNHARD O. OPITZ, Portland, Oreg. Original application filed Dec. 7, 1926, Serial No. 153,099, and in Canada Dec. 24, 1926. Divided and this application filed July 18, 1927. Serial No. 206,665. 4 Claims. (Cl. 107—28.)



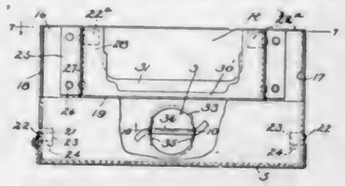
1. A filler for delivering a multiple of measured volumes of liquid intermittently, consisting of a hopper having a plurality of openings formed in the bottom thereof, said hopper having a base provided with a plurality of cylindrical openings each closed at one end each of which openings communicates with one of the hopper openings, each cylinder opening having a hollow sleeve open throughout its length and slidably placed therein, said sleeve having a port therein which registers with one of said hopper openings when said sleeve is in an outward position, said sleeve having a second port formed therein registering with a discharge port in said base when said sleeve is in the innermost position; a piston in each sleeve and having a piston rod; and means for sliding said piston and sleeve in a manner that said hopper opening will communicate with the interior of said sleeve while said piston is being withdrawn and that the discharge port of said sleeve shall communicate with the discharge of said base when said piston is forced into said sleeve.

1,685,461. GEAR TRANSMISSION. CHARLES R. NICHOLS, New York, N. Y. Filed Apr. 19, 1926. Serial No. 102,845. 11 Claims. (Cl. 74—34.)



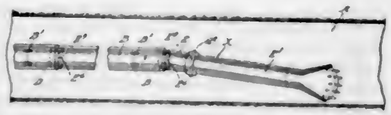
1. In a power transmission, the combination with driving and driven shaft elements, of gear elements forming a differential gear train connecting said shafts and including a gear element revolving at different speeds relative to the speed of another element of the transmission with different speed ratios between the two shaft elements, and means for exerting a reactive force between said gear element and said other element comprising one or more weights each mounted on one of the two last mentioned elements and a connection between each such weight and the other of the two last mentioned elements including a crank carried by the latter and operative to move the corresponding weight toward the axis of the element on which it is mounted during each of successive increments of relative movement of the connected elements, and means for automatically adjusting the effective length of said connection at the end of each of said increments to permit the corresponding weight to move quickly outward from said axis.

1,685,462. SWITCH BOX. GRANVILLE E. PALMER, Brookline, and ERNEST G. JOHANSSON, Boston, Mass., assignors, by mesne assignments, to The Palmer Electric and Manufacturing Company, Waltham, Mass., a Corporation of Massachusetts. Filed June 30, 1925. Serial No. 40,645. 20 Claims. (Cl. 247—2.)



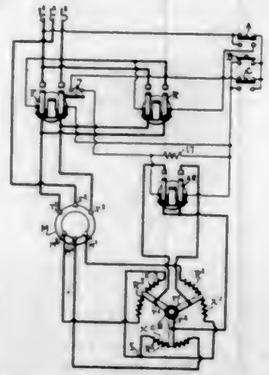
1. A switch box comprising side walls, a reversible end wall member having an opening extending inwardly from one edge and pivotally supported between said side walls and partially closing the end of the box, and a cover for the box, the cover having a part which covers said opening when the cover is closed and the end wall is in one of its positions.

1,685,463. SHAKER CONVEYER. JOHN H. D. PETERSEN and JOHN W. WILSON, Chicago, Ill., assignors to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed July 12, 1926. Serial No. 121,795. 3 Claims. (Cl. 198—220.)



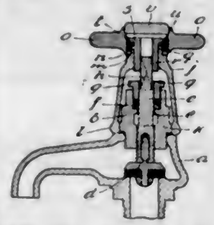
2. In a self-feeding conveyer, in combination, a generally horizontal conveyer trough and means for imparting to it a differential conveying reciprocation, and a digging and feeding member secured thereto and adapted to move in unison with it and to deliver material directly thereto, said digging member being mounted, in relation to said trough, to permit its rotation about both horizontal and vertical axes.

1,685,464. MOTOR CONTROLLER. EDWIN W. SEEGER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 30, 1925. Serial No. 72,073. 5 Claims. (Cl. 172—179.)



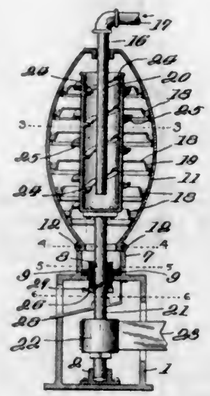
1. In a motor controller, the combination with electro-responsive line and accelerating switches, of control means for said switches comprising a push-button switch biased to open position, said push-button switch having a single closed position and adapted when closed to provide an energizing circuit for said line switch, auxiliary contacts on said line switch adapted upon closure of the latter to complete a maintaining circuit therefor, said maintaining circuit being effective only upon release of said push button switch, the operating winding of said accelerating switch being also included in series in said maintaining circuit and adapted upon utilization of the latter to effect operation of said last mentioned switch for commutation of the motor circuit connections, and a normally closed push-button switch adapted upon opening thereof to effect simultaneous deenergization of both of said electro-responsive switches.

1,685,465. SCREW-DOWN TAP OR COCK. GEORGE NEVILLE SPERRYN, Birmingham, England. Filed Oct. 19, 1925, Serial No. 63,207, and in Great Britain Mar. 31, 1925. 3 Claims. (Cl. 251—48.)



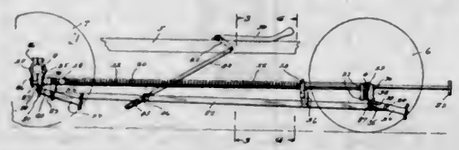
1. A screw-down tap, comprising a body provided with a seating therein, a spindle carrying a valve head adapted to engage the seating, a gland in the upper end of the body through which the spindle passes, a hollow casing sleeve, enclosing but out of contact with the spindle and gland, detachably secured upon the body and normally stationary thereon but readily removable without disturbing the spindle or gland, a handle provided with a shank extending through the upper end of the sleeve and slidably keyed to the spindle, and a readily releasable connection between the handle and the sleeve permitting their independent relative rotation.

1,685,466. ORE SEPARATOR. EDDIE H. STEPP, Knoxville, Tenn. Filed Nov. 22, 1926. Serial No. 150,069. 5 Claims. (Cl. 209—205.)



1. A centrifugal ore separator, comprising a bowl having an amalgam retaining trough on its inner wall, and an inner rotary member provided with means on its exterior for lifting the body of concentrate and water to retard the downflow thereof and simultaneously throwing it outwardly to bring the valuable heavier mineral content into contact with the said amalgam surface.

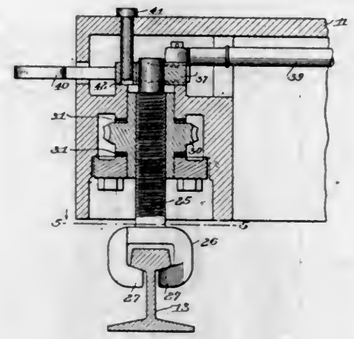
1,685,467. VEHICLE STOP. MAX STOCKOV, New York, N. Y., assignor of one-half to Max Sherr, Philadelphia, Pa. Filed Sept. 16, 1926. Serial No. 135,876. 2 Claims. (Cl. 180—83.)



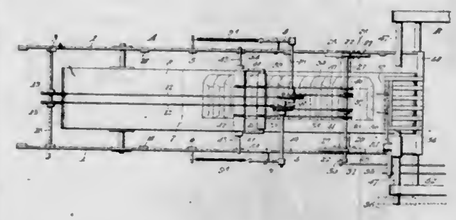
1. The combination with a motor vehicle, of spring-tensioned rods adapted to be reciprocated, a plurality of jacks pivotally connected to said vehicle, linkage connecting the laterial jacks in tandem, detents carried by said rods, a yoke-member slidably secured to said rods and means associated with said linkage and coacting with said detents and said yoke member to release said jacks in depending position upon reciprocation of said rods.

1,685,468. RAIL CLAMP. ALFRED TROSCH, Rochester, N. Y., assignor to Consolidated Machine Tool Corporation of America, Rochester, N. Y., a Corporation of Delaware. Filed July 18, 1927. Serial No. 206,560. 9 Claims. (Cl. 188—43.)

1. The combination with a truck adapted to run on railway rails, of a clamp for engaging the head of a rail, said clamp including a threaded shank, and being movable from an effective to an ineffective position by turning said shank, and being engageable with the head of a rail by longitudinal movement of said shank when said clamp is in its effective position, a nut threaded on said shank and adapted to produce longitudinal movement thereof when rotated relative to the shank, and a control member fixed to said shank for turning the same from effective to ineffective position and also for preventing the shank from rotating with said nut when the nut is turned to move the shank.



1,685,469. MECHANISM FOR MAKING SIDE-SEAM ENVELOPES. CARL L. TUCKER, Denver, Colo., assignor of one-half to Willett R. Lake, Denver, Colo. Filed July 13, 1926. Serial No. 122,140. 10 Claims. (Cl. 93—62.)

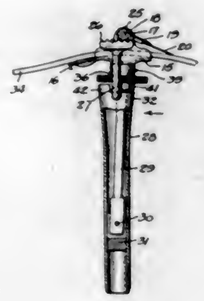


1. In a device of the character described, the combination with a slowly moving endless belt and means for successively depositing envelopes thereon, said envelopes having the forward flap unfolded but stipped with glue; of endless movable elements in contact with said belt, means to engage and fold over the said unfolded flap and draw said envelope in between said movable elements and said belt, means for pressing the flap against the bouy of the envelope and means for holding the envelopes upon the belt until they reach a point of discharge.

1,685,470. RAZOR-STROPPING DEVICE. CHARLES L. VAN AMBURGH, Long Beach, Calif. Filed Nov. 11, 1926. Serial No. 147,798. 13 Claims. (Cl. 30—12.)

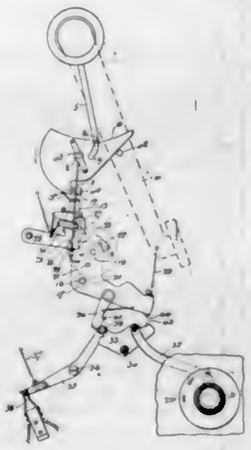
1. In a razor stropping device, a support; a frame mounted in an oscillating relation to the support; a blade guard forming a part of the frame; means for frictionally engaging a strop in the frame; a shaft rotatably mounted in the frame; a blade holder secured on the shaft for rotation therewith and adapted to have its rotative movement arrested by the engagement of a blade therein with the strop; a pinion fixed on the shaft for oscillating the blade holder; and a segmental gear meshing with the pinion and

being in a fixed relation to the support so that the pinion will be rotated by the segmental gear and will thereby cause the blade holder to oscillate and to swing the blade therein



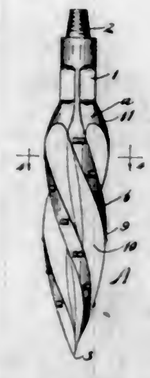
from one strop-engaging position toward another immediately upon an impulse given to the device for moving it longitudinally on the strop in the direction toward the blade's strop-engaging position.

1,685,471. STOPPING MEANS OF TALKING MACHINES. ERIC NEWHAM WATERWORTH, West Hobart, Tasmania, Australia. Filed Dec. 15, 1927, Serial No. 240,278, and in Australia Feb. 11, 1927. 9 Claims. (Cl. 192—118.)



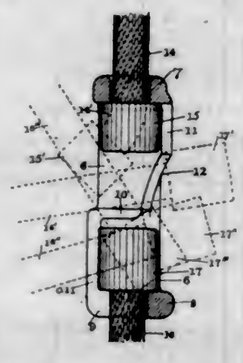
2. In stopping means in talking machines having a pallet wheel rotated by the machine motor and mounted on a plate adapted to be rocked about the axis of the motor spindle to actuate the stopping means, a pallet lever and a latch member pivotally mounted thereon that are intermittently rocked independently and together while the tonearm is moving and in which when the movement of the tonearm ceases the latch member becomes locked to allow the stopping means to function, a pivotally mounted plate adapted to be rotated by the tonearm, a latching rod frictionally connected to said plate the movements of the rod being regulated alternately through said plate and the pallet wheel.

1,685,472. OIL-WELL TOOL. GEORGE D. WATSON, Torrance, Calif. Filed Nov. 16, 1925. Serial No. 69,323. 7 Claims. (Cl. 153—81.)



1. A swage formed with spaced ribs and tapering toward its forward end.

1,685,473. BULL HOOK. OSCAR A. WIRKKALA, Deming, Wash. Filed Feb. 6, 1926. Serial No. 86,484. 1 Claim. (Cl. 24—123.)

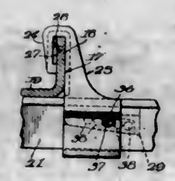


In a logging bull hook in combination, a hook eye to fasten a knotted pitch line thereto, U-form hook jaws, two pillars connecting said eye to said jaws integral therewith, two opposite transverse bosses on the interior walls of said pillars shorter than the width thereof, a front wall on said pillars extending from said jaws to said bosses having a central slot from said jaws to said bosses, and a rear wall on said pillars above the back of said U-form jaws disposed diagonally from said eye to the rear ends of said bosses having a transverse hole therethrough impassable for said knobbed pitch line when engaged in said eye but passable for a knobbed choker cable when presented endwise thereto and a slot from said eye to said bosses.

1,685,474. BRAKE-BEAM SAFETY HANGER. JACK WILSON, Chicago, Ill., assignor to Universal Draft Gear Attachment Co., a Corporation of Illinois. Filed July 21, 1926. Serial No. 123,891. 6 Claims. (Cl. 188—210.)

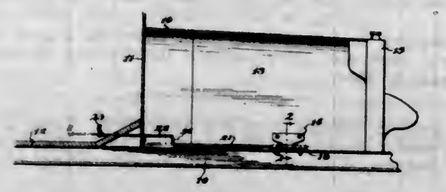
1. In a railway truck, a pair of brake beams, a spring plank having upstanding flanges provided with aligned notches, a pair of hangers having hook-shaped extensions engaging said upstanding flanges and provided with projections for engaging said notches, said hangers being provided with aligned angular closed slots beneath said spring plank

and adjacent thereto, a straight bar angular in cross section slidably mounted in said aligned slots beneath said plank and conforming to the shape of said slots, said bar being supported by said hangers in close proximity to said



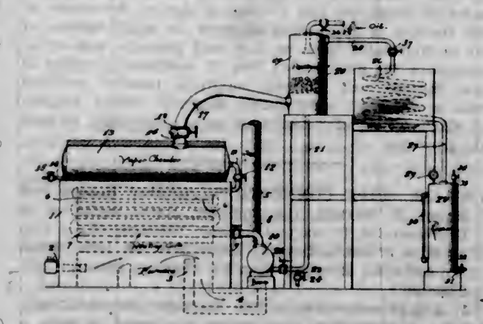
plank, whereby said bar is adapted to engage said plank and the outer end of said slot to prevent the disengagement of said projections from said notches, and means engaging said hanger and bar for preventing longitudinal movement of said bar through said slots.

1,685,475. MOTOR-VEHICLE HOOD LATCH. VERLAND E. WUTHNOW, Dillon, Kans. Filed Feb. 23, 1927. Serial No. 170,319. 1 Claim. (Cl. 292—145.)



In a motor vehicle, the combination with the dash, the floor, chassis side bar and motor enclosing hood, of a plate attached to the side bar and provided with alined spaced sleeves, a companion plate attached to the hood and having a sleeve adapted to aline with the said spaced sleeves and occupy a position therebetween, a longitudinal rod slidably mounted in the floor, dash and rear sleeve of the plate attached to the said side bar and engageable with the alined sleeves to lock the hood, and having an intermediate portion offset to provide a stop to engage the dash and prevent disengagement of the front end of the rod from the said rear sleeve, and a finger piece at the rear end of the rod.

1,685,476. PROCESS FOR CRACKING OILS. JOSEPH G. ALTHER, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Aug. 20, 1920, Serial No. 404,745. Renewed June 9, 1926. 5 Claims. (Cl. 196—58.)



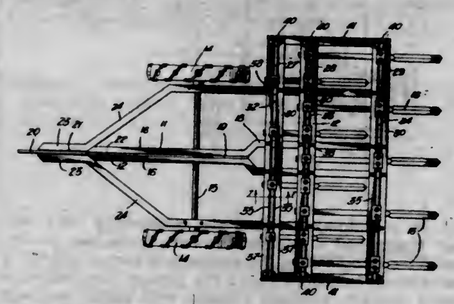
2. The process of cracking petroleum oil, comprising passing the oil through a coil of progressively decreasing size disposed within a heating zone wherein the diameter of the coil decreases in accordance with a lowering temperature in the heating zone, in discharging the oil from the smallest portion of the coil into a vapor chamber, in collecting vapors from said chamber and in subjecting said vapors to a condensing action.

1,685,477. CORSET. AUGUST B. BECK, Cranford, N. J., assignor of one-half to Samuel E. Rizzuto, Brooklyn, N. Y. Filed Oct. 4, 1927. Serial No. 223,865. 3 Claims. (Cl. 2—43.)



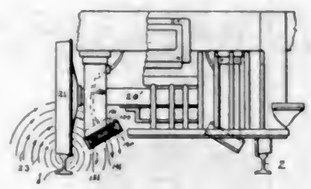
1. In combination with a corset, a belt-like pad secured along its upper and end edges only to the upper edge of and inside the corset and extending substantially around the entire upper edge of the corset.

1,685,478. CULTIVATOR. LOUIS BRENNEIS, Oxnard, Calif., assignor to Brenneis Manufacturing Company, a Corporation of California. Filed Mar. 10, 1924, Serial No. 698,058. Renewed July 27, 1927. 6 Claims. (Cl. 97—233.)



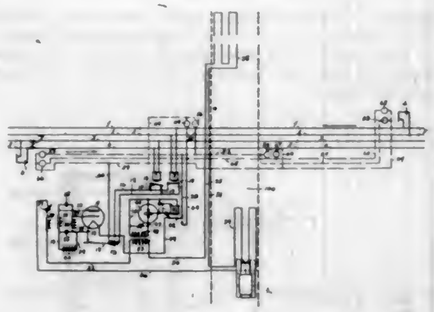
1. In a cultivator, the combination of: a frame; bar members placed in parallel relationship and directed laterally so as to form lateral horizontal directed channels; earth tools having horizontal securing bars, each of which is arranged to extend across two of said lateral channels; bolt means extending through the forward one of said two lateral channels and securing the forward ends of the tool bars in place; and U-bolts extending through the rearward one of said two lateral channels and looping around said tool bars to secure the rearward ends of said tool bars in place, all of said bolt means and U-bolts being slidably disposed in the respective lateral channels to provide adjustment in spacing of said earth tools

1,685,479. TRAIN-CONTROL APPARATUS. THOMAS E. CLARK and JAMES E. CLARK, Detroit, Mich., assignors to Continuous Train Control Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 24, 1925. Serial No. 64,524. 3 Claims. (Cl. 246—63.)



1. In a train control system, the combination with the rails of the trackway and means to propagate high-frequency currents of predetermined wave lengths therein so as to induce electro-magnetic lines of force and flux around the rails throughout definite distances, a vehicle on said rails, and a flat collector coil mounted on the vehicle between the rails to cut said lines of force and having its axis substantially tangent to the direction of said lines of force, said coil being positioned adjacent said rail in a direction inclined to plane of the track.

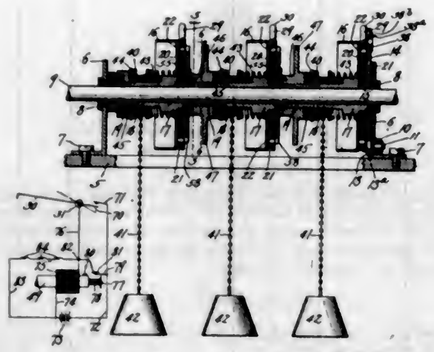
1,685,480. SAFETY INSTALLATION FOR GRADE CROSSINGS. THOMAS E. CLARK, Detroit, Mich., assignor to Continuous Train Control Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 25, 1927. Serial No. 178,240. 13 Claims. (Cl. 246—63.)



1. In a highway crossing, the combination with railway tracks and a highway crossing them, an electric conductor embedded in the highway, a current source, a transformer for transforming the current into radio-frequency current, a circuit between said source and said transformer, a battery connected to the rails, a relay connected to said rails and adapted to be shunted by an oncoming vehicle to cause the closing of the circuit from the current source to said transformer, and a circuit connecting the transformer to the conductor.

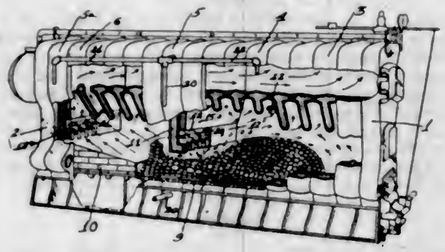
1,685,481. COUNTING MECHANISM. WILLIAM A. DE HART, Teaneck, N. J., assignor of five-sevenths to Edward H. Binns and two-sevenths to Ralph H. Binns, Pittsburgh, Pa. Filed Oct. 2, 1925. Serial No. 60,055. 9 Claims. (Cl. 235—144.)

8. In counting mechanism, a counting wheel, a winding drum coaxial with said counting wheel, said winding drum being rotatable with and relatively to said counting wheel, a yieldable driving connection between said counting wheel and winding drum, a setting disk adjustably connected to said counting wheel, and means releasably



connected to said winding drum under the control of said reset disk for controlling the resetting of said counting wheel.

1,685,482. STEAM AND AIR INJECTOR. JAMES DOHERTY, Chicago, Ill. Filed Apr. 24, 1923. Serial No. 634,232. 5 Claims. (Cl. 110—60.)

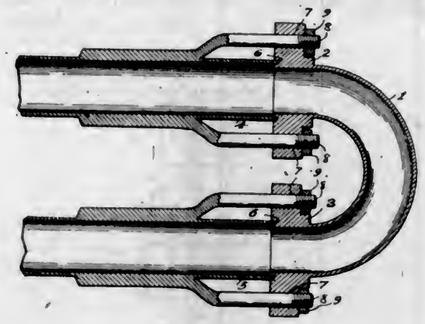


1. An air and steam injector for use in a furnace or the like, comprising an air duct provided with air passages of graduated and increasing size as the center of the furnace is approached whereby an equal volume of air is distributed from each of said passages and transversely of the direction of flow of combustion vapors in said furnace, and a steam supplying member provided with a series of equidistantly disposed orifices adapted to discharge equal volumes of steam into each of said air passages.

1,685,483. PIPE CONNECTION. GUSTAV EGLOFF and HARRY P. BENNER, Independence, Kans., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Nov. 10, 1920, Serial No. 423,018. Renewed Mar. 12, 1926. 4 Claims. (Cl. 285—20.)

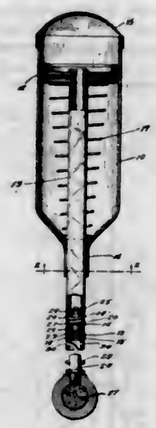
1. A pipe connection of the character described, comprising a connecting pipe length interposed between a pair of pipes to be united having unflanged ends, apertured flanged ends fixed to said connecting length being circularly grooved along one face thereof and adapted

to receive in said grooves the pipe ends, and means comprising rigid extensions formed integral with the pipes and having end portions spaced therefrom adapted to



register with the apertures in said flanges for tightly drawing the flanges against said pipe ends to form pressure tight joints without the aid of packings.

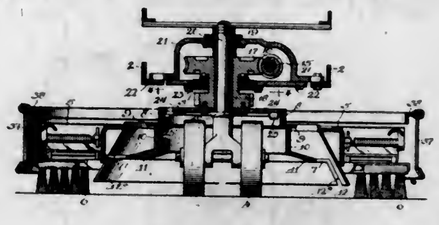
1,685,484. LUBRICANT COMPRESSOR. DOUGLAS F. FESLER, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 9, 1924. Serial No. 705,175. 12 Claims. (Cl. 221—47.4.)



12. A lubricant compressor comprising a barrel and co-acting means for placing lubricant under low pressure when said barrel is moved rectilinearly, and under high pressure when said barrel is rotated.

1,685,485. FLOOR-SCRUBBING MACHINE. WALTER S. FINNELL, Hannibal, Mo., assignor to Finnell System, Incorporated, a Corporation of Delaware. Original application filed May 11, 1923, Serial No. 638,166. Divided and this application filed Dec. 18, 1925. Serial No. 76,137. 4 Claims. (Cl. 15—180.)

1. In a floor scrubbing machine, the combination of a driving disc, means for driving said disc, a brush ring structure in direct engagement with said disc and having means for yieldably supporting brushes in contact with



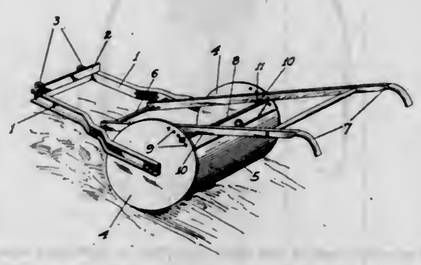
the surface under treatment, and an additional yieldable connection providing said direct engagement between said brush ring structure and said driving disc.

1,685,486. CARPENTER'S RULE. ALBERT G. GRAHAM, Monette, Ark. Filed July 14, 1925. Serial No. 43,585. 1 Claim. (Cl. 33—106.)



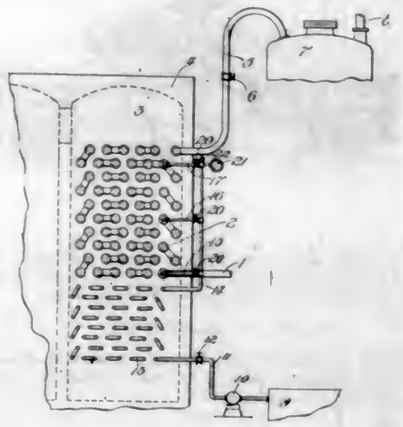
In a carpenter's rule, the combination with a body consisting of a plurality of alined sections having their adjacent ends hingedly connected together and provided with longitudinally extending side edges and oppositely disposed substantially wide graduated faces, of pivot pins rigidly carried by the free ends of the outer sections of the rule and projecting laterally from one of said wide graduated faces and extending at right angles with respect thereto, the outer sides of the pins lying flush with the said free ends of the outer sections.

1,685,487. SCRAPER. JOSEPH H. HALE, Linden, Calif. Filed June 1, 1927. Serial No. 195,639. 3 Claims. (Cl. 37—140.)



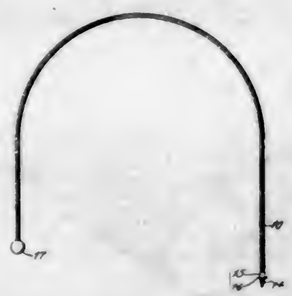
2. A scraper comprising a frame to be moved along the ground, a rotatable bowl member pivoted on to the frame, a handle member mounted on the frame ahead of the bowl and extending rearwardly thereof, and means between the handle and bowl for releasably holding the bowl in a scraping position relative to the ground.

1,685,488. PROCESS AND APPARATUS FOR CONVERTING HYDROCARBONS. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Feb. 19, 1923. Serial No. 619,820. 3 Claims. (Cl. 196—62.)



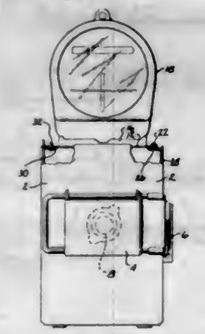
1. The step of heating oil in an oil cracking process, which consists in continuously passing the oil in a restricted stream through an elongated conduit disposed within a furnace, wherein the oil is raised to a cracking temperature, in stepping up the velocity of flow of the oil stream through said conduit, and in assisting in the heating of the oil in the stream by introducing a superheated inert gas into the oil stream in successive sections of said conduit under a pressure in excess of the pressure on the oil stream and at a velocity greater than the velocity of flow of the oil stream.

1,685,489. LACE FOR FOOTWEAR. CARL JANSEN, New York, N. Y. Filed Feb. 24, 1928. Serial No. 256,610. 1 Claim. (Cl. 24—143.)



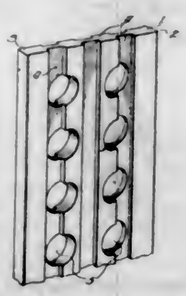
For shoe-laces of the class described a fastening means for connecting the ends of said lace comprising a point at one end, a sleeve on the lace at a distance from said point, a substantially arm-shaped end plate for said sleeve, a ball-shaped body having a hollowed substantially keystone shaped socket formed therein at the opposite end of the lace, an end plate for said socket having a median cross-shaped opening adapted to receive and allow the passage of the cross-shaped end plate of the other lace end into said socket to be locked therein by a twist of the lace.

1,685,490. CASING FOR SAFETY SWITCHES. ERNEST G. JOHANSSON, Boston, Mass., assignor, by mesne assignments, to The Palmer Electric & Manufacturing Co., Waltham, Mass., a Corporation of Massachusetts. Filed May 14, 1926. Serial No. 109,031. 6 Claims. (Cl. 247—2.)



1. The combination of a casing body open at one end, a meter adapter plate for said end, means permanently securing said plate to said body and permitting its reversal about a longitudinal axis and its movement about an axis at right angles to said longitudinal axis, and a main cover for said body portion having a flange overlapping a portion of said plate, said plate having on one side of its longitudinal axis a meter adapting opening which when in one position is closed by said flange and on the other side of said axis a solid portion which when said opening is so closed completes the closure of the casing, said plate having an elongated slot coacting with said securing means so as to permit said plate to be moved transversely to said axis.

1,685,491. NAILING STRIP OR BLOCK. CARL M. JOHNSON, Chicago, Ill. Filed July 22, 1927. Serial No. 207,706. 3 Claims. (Cl. 72—105.)



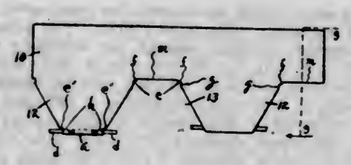
1. A nailing strip of the class described comprising a relatively thin, flat elongated strip having the opposite lateral edges thereof of greater thickness than the connecting web portion therebetween, so that said relatively thick edges overlap the outer side faces of a pair of adjacent building blocks when said blocks are abutted against the opposite sides respectively of said web portion and having a plurality of longitudinal grooves in said web portion, for cooperating with a building block having similar registering grooves therein to form ke same.

1,685,492. PERFORATOR. WINFIELD S. JONES, Brea, and HAROLD U. BAKER, Los Angeles, Calif., assignors of three-eighths to Winfield S. Jones, two-eighths to Harold U. Baker, and three-eighths to E. D. Jones, Los Angeles, Calif. Filed June 10, 1926. Serial No. 114,917. 5 Claims. (Cl. 81—193.)



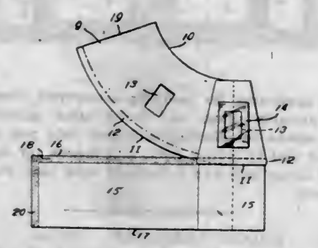
3. Improvements in perforators adapted to be placed within well casing, including a body, a sleeve carried at one end of said body, a head within said sleeve and a frangible member between the head and the sleeve, a mandrel carried by the head, and a friction member upon said mandrel.

1,685,493. ROOFING STRIP. HARRY G. KELLY, Omaha, Nebr. Filed Nov. 27, 1925. Serial No. 71,553. 4 Claims. (Cl. 108—7.)



1. A roofing strip having an edge provided with spaced tabs having substantially complementary intermediate recesses, the upper side edges of said tabs being provided with right angular portions projecting into the recesses, the lower edges of said portions providing a stop, and at least part of the upper edges of said tabs being formed at substantially right angles to the said lower edge of said right angular portions to form guiding means, stiff fastening means carried by each tab having bent portions projecting laterally from the lower side edges of said tabs, whereby an overlying strip may be moved upwardly so that the outer part of the bent portions of its fastening means will engage beneath the tabs of an underlying strip while the other part of the bent portions will engage the said guiding means and stop of said underlying strip.

1,685,494. METHOD OF CONSTRUCTING BOTTLE-RECEPTACLE ELEMENTS. LYDIA B. KOCH, New York, N. Y., assignor to Reinforced Paper Bottle Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 26, 1923. Serial No. 677,015. Renewed Mar. 2, 1928. 3 Claims. (Cl. 229—4.5.)



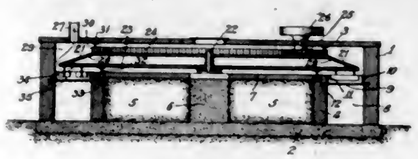
1. A method of forming body portions of receptacles as characterized comprising shaping sheet blanks, the one rectangular and the other arcuate and then rolling said blanks upon themselves and upon each other simultaneously.

1,685,495. DEVICE FOR CREATING ACCURACY IN THE ART OF BOXING. HARRY LATZ, New York, N. Y., assignor to Harry Latz Service, Inc., New York, N. Y., a Corporation of New York. Filed May 11, 1927. Serial No. 190,395. 1 Claim. (Cl. 272—76.)



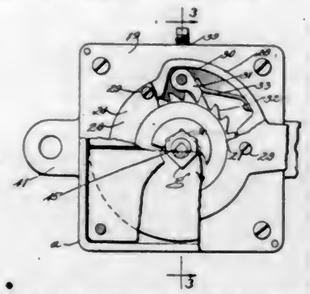
A device for creating accuracy in boxing, comprising a stuffed casing shaped to simulate the upper portion of the human body, having an opening at the bottom thereof to permit the introduction of stuffing, means for supporting said casing comprising a member attached to the top thereof and a second member attached to the casing adjacent said opening, and numbered circles on said casing to indicate striking areas corresponding to vulnerable parts of the human body.

1,685,496. LOW-TEMPERATURE DISTILLATION APPARATUS. HENRY G. LYKKEN, Minneapolis, Minn. Filed May 23, 1924. Serial No. 715,324. 20 Claims. (Cl. 202—4.)



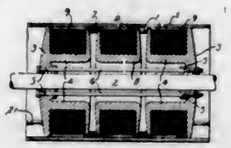
1. An apparatus for treating a material, comprising a pan of annular shape and for holding material to be treated, means for heating said pan, said pan having an inlet port and an outlet port, and means for moving the material along said pan from said inlet port toward said outlet port.

1,685,497. SHOCK ABSORBER. GEORGE C. MARTIN, Los Angeles, Calif. Filed Oct. 27, 1924. Serial No. 746,037. 3 Claims. (Cl. 188—130.)



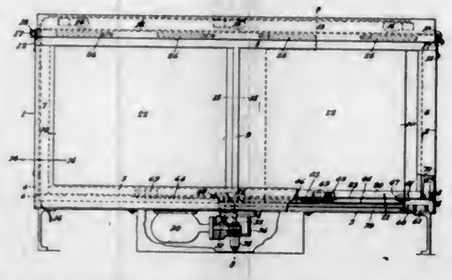
1. A shock absorber comprising a rectangular casing, a cover for said casing having a round central opening, a ratchet toothed gear having an offset flange portion journaled in said cover, a hub including a squared shank interlocked with the gear, a plurality of stationary clutch plates conforming in shape to the casing and interlocked therewith, and a plurality of movable disks interlocked with the squared shank of the hub and arranged between said stationary clutch plates, means for pressing said stationary clutch plates and movable discs in frictional contact, and a lever carrying a pawl operating in conjunction with said ratchet toothed gear whereby movement of the lever in one direction does not move the gear but movement in the other direction will move the gear against the frictional resistance of movable discs and stationary clutch plates.

1,685,498. MAGNETIC PULLEY. PAUL J. MCCULLOUGH, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Delaware. Filed Jan. 12, 1927. Serial No. 160,756. 6 Claims. (Cl. 64—17.)



1. In a device of the character described, a shaft, end plates mounted upon said shaft and adapted to rotate therewith, a drum supported by said end plates, spools mounted in said drum, magnetic coils mounted in said spools, means for drawing said end plates toward each other, and expansible rings located between the outer ends of said spools so that when said end plates are drawn toward each other said rings are contacted against the inner surface of said drum and the outer edges of said spools, substantially as described.

1,685,499. DISPLAY APPARATUS. LESLIE R. MCDONALD, Westmount, Montreal, Quebec, Canada. Filed Nov. 17, 1926. Serial No. 148,809. 8 Claims. (Cl. 40—36.)



1. In a display apparatus, the combination of a case provided with a plurality of placard compartments therein, a series of placard carriers, transferably disposed in said compartments, means for shifting a placard carrier laterally, means for shifting it transversely, such placard shifting means embracing a reciprocable rack bar and a rotating pinion having a fixed position and in mesh with the rack bar and means for rotating the pinion continuously.

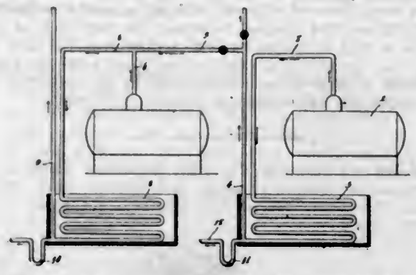
1,685,500. ELECTRIC SWITCH. GEORGE J. MEUER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 1, 1926. Serial No. 145,570. 11 Claims. (Cl. 200—67.)



1. In a snap switch mechanism, the combination with a pair of stationary contacts, of a plurality of separately pivoted contact members adapted for movement simultaneously into and out of engagement with said stationary contacts, means for effecting such movement with a snap action, said means comprising a bell-crank lever pivoted eccentrically with respect to said contact members, an insulating abutment interlocked with the free ends of said contact members, a switch actuating arm on said lever, a freely flexible spiral compression spring interposed between said abutment and said actuating arm, and a manually operated arm on said lever arranged at substantially right angles to said actuating arm.

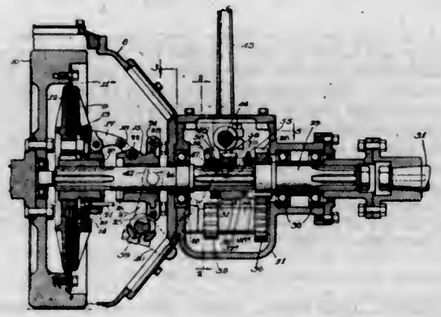
1,685,501. PROCESS FOR RECOVERY OF VAPORS. ROBERT T. OSBORN, Richmond, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed July 11, 1922. Serial No. 574,183. 2 Claims. (Cl. 196—12.)

2. A process of recovering escaping or waste petroleum gases which are by themselves substantially uncondensible at atmospheric pressure and temperature, which consists in passing such gases unaccompanied by vapors condensible at or below the pressure and temperature at which said gases can be condensed, into vapors from a distilling unit operating below cracking temperature and pressure to convert higher boiling point oil into vapors which are condensible at atmospheric temperatures and pressures and which vapors contain substantially no constituents of which said gases are composed, thereby



creating a vapor condition such that substantially all of said vapors and gases can be condensed at atmospheric temperatures and pressures, and condensing the said gases together with the said vapors, said gases being retained in the same molecular state from the time of mixing until after their condensation.

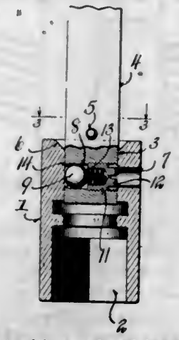
1,685,502. CLUTCH AND TRANSMISSION MECHANISM. WILLIAM J. PEARMAIN, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a Corporation of Wisconsin. Filed Feb. 9, 1925. Serial No. 7,803. 4 Claims. (Cl. 74—58.)



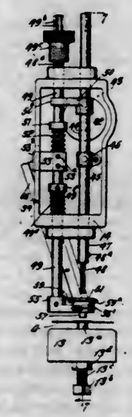
1. In a device of the class described a clutch, a shaft driven thereby, a clutch operating sleeve on said shaft, a second shaft in line with the first said shaft, transmission mechanism for driving the second said shaft from the first including a reversing shifting gear, a hand lever for shifting said clutch operating sleeve and gear, connections between the lever and sleeve such that the clutch is operated only at the respective ends of the arc of movement of the lever, an arm on the lever, a pin on the arm, a shifting fork for the gear having a notch in which said pin engages when the lever is in the intermediate portion of its arc of movement and from which the pin is released when the lever is in the end portions of its arc of movement.

1,685,503. SOCKET WRENCH. EDWARD M. PFAUSER, Milwaukee, Wis., assignor to Blackhawk Manufacturing Company, Milwaukee, Wis. Filed May 19, 1927. Serial No. 192,745. 2 Claims. (Cl. 81—121.)

2. A two-piece socket wrench comprising a head socketed for the reception of a nut, and a handle for attachment with said head, one of said members having a socket therein of polygonal contour and provided with a transverse aperture, the other of said members having a shank for engagement in said polygonal recess and provided with a transverse aperture adapted to aline with the first mentioned aperture and of larger diameter than said first mentioned aperture, a ball carried within the aperture of said shank, a plug threaded into said shank aperture and provided with a reduced head for engagement in the first mentioned recess, to positively lock the members together, and a spring interposed between said ball and said plug.



1,685,504. AUTOMATIC SPOT-SETTING MACHINE. WILLIAM SCHEUER, New York, N. Y. Filed Apr. 28, 1926. Serial No. 105,096. 5 Claims. (Cl. 1—3.)

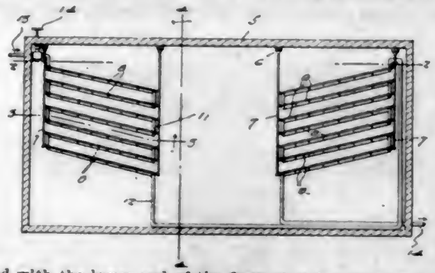


1. An automatic spot setting machine embodying, in combination, a reciprocating plunger mechanism, a stationary spot-clinching die arranged to cooperate therewith, means for feeding spots beneath the plunger, a reciprocating member having spot-engaging means and movable between the said feeding means and die, said reciprocating spot-engaging member being movable simultaneously with the movement of the plunger, means for causing a resilient contact of said reciprocating member with the goods to hold the same in place during the setting of the spot, and means for adjusting the extent of movement of said spot-engaging reciprocating member to vary the degree of resilient pressure on the goods and to compensate for varying thicknesses of goods.

1,685,505. REFRIGERATING APPARATUS. GEORGE T. SMILEY and WALTER R. OHSE, Houston, Tex. Filed Oct. 28, 1927. Serial No. 229,366. 3 Claims. (Cl. 62—101.)

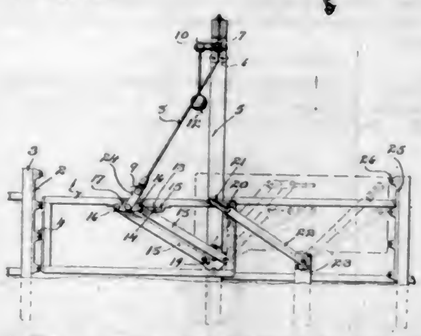
1. In a refrigerating apparatus of the class described, a refrigerating compartment and a plurality of refrigerating units arranged therein, each unit comprising a se-

ries of flues angularly disposed, with their side edges spaced from the walls of the compartment whereby to permit the free circulation of air entirely about each flue



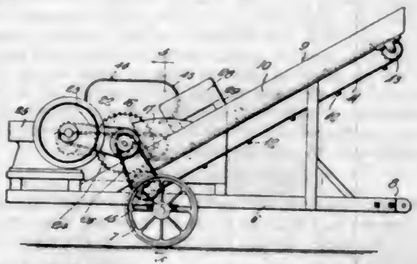
and with the lower end of the flues of each unit extending toward a common point within the compartment and a pipe coil arranged with each of said flues.

1,685,506. GATE. FRANKLIN H. SMITH, Peshtigo, Wis. Filed Dec. 10, 1926. Serial No. 154,011. 3 Claims. (Cl. 39—64.)



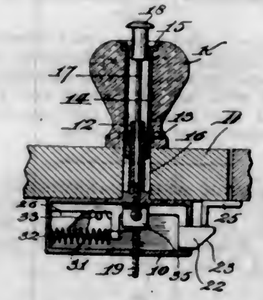
1. The combination of a gate, a pair of uprights mounted on opposite sides of the rear end of the gate, levers pivoted adjacent the lower ends of said uprights and having a pin joining their upper ends, a horizontally slotted guide receiving the pin of said levers and carried by said gates intermediate its ends, a second pair of levers pivoted adjacent their lower ends at a point spaced from the lower ends of said first mentioned levers and having slotted upper ends, pins carried by said gate adjacent its rear end and fitting within the slotted upper ends of said last mentioned levers, and cables extending downwardly and operatively coupled to the upper ends of said first mentioned levers.

1,685,507. KAFIR-CORN HEADER. ARTHUR G. STEVENSON, Ottawa, Kans. Filed Mar. 25, 1926. Serial No. 97,333. 2 Claims. (Cl. 146—81.)



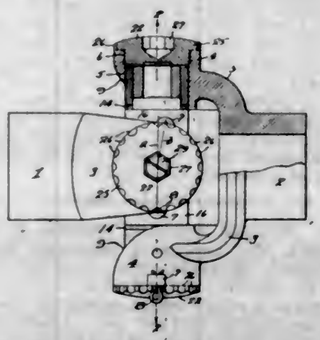
1. A stalk header comprising a table, a driven cutter at one edge of said table for severing the heads from stalks fed along said table, a relatively short feed belt extending along the table near its other edge, a comparatively long feed belt extending along the intermediate portion of said table with its inner end projecting beyond the inner end of the first named belt, a stalk guiding plate declining to the inner end of said relatively long belt and spaced from the inner end of the shorter belt, the lower edge of said plate being disposed adjacent said cutter, and a resiliently mounted retarder adapted to engage the butt ends of the stalks to hold the latter against angling upon the table as they are presented to the cutter, said retarder being mounted slightly above and adjacent to the lower end of said plate and the contiguous portion of the table.

1,685,508. PUSH CATCH FOR DOORS. THOMAS F. STUART and HENRY A. MOORE, Los Angeles, Calif. Filed Mar. 30, 1927. Serial No. 179,418. 3 Claims. (Cl. 292—168.)



1. A push catch for doors comprising a housing, a spring held latching bolt arranged for sliding movement therethrough, the outer end portion of which latching bolt projects through an opening in one end of said housing, the inner end portion of said latching bolt being provided with an inclined face, a lever fulcrumed within the housing with one end bearing against said inclined face, a push rod mounted for movement through the housing in a plane at right angles to the plane occupied by the latching bolt and a member adjustably mounted on said push rod and bearing on the end of said lever opposite the end that engages the inclined face on the latching bolt.

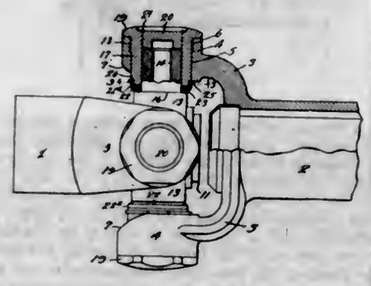
1,685,509. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor, by mesne assignments, to Spicer Manufacturing Corporation, South Plainfield, N. J., a Corporation of Virginia. Filed Nov. 17, 1922. Serial No. 601,457. 4 Claims. (Cl. 64—102.)



1. In a universal joint the combination of a cross member having trunnions each provided with a bore communicating with the central portion of such member, bearing

blocks adapted to receive the said trunnions, a cap threaded into the outer end of each bearing block, each cap having a circular head provided with peripheral equi-distantly spaced notches, and a pair of locking members carried by each block and so arranged as to engage alternately a notch in the said cap as the cap is screwed into or out of the said bearing block.

1,685,510. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J., a Corporation of Virginia. Refiled for abandoned application Serial No. 601,458, filed Nov. 17, 1922. This application filed Oct. 24, 1924. Serial No. 745,714. 5 Claims. (Cl. 64—102.)



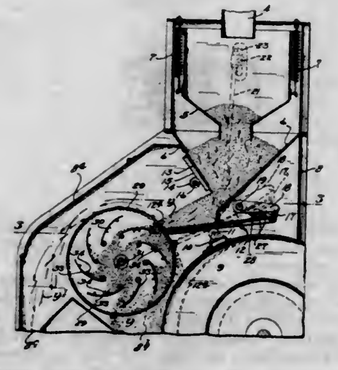
1. In a universal joint, the combination with a trunnion having a shoulder at its inner end, of a bearing block adapted to receive such trunnion and having a bore provided with a thread, a bushing threaded into such bore and receiving the trunnion therewithin, a ring of resilient metal surrounding such trunnion and interposed between the inner end of said bushing and its cooperating shoulder, said ring having a cylindrical flange whose outer edge is adapted to be engaged by the inner end of the bushing and a portion deflected inwardly from such flange toward said shoulder and the trunnion and adapted to engage said shoulder thereby forming a pocket between the inner end of the trunnion and the bushing, which pocket is adapted to be contracted in cross-sectional area by screwing said bushing inwardly, compressible packing material in said pocket and directly engaging said trunnion, and means for conducting lubricant to the space between the bushing and the trunnion.

1,685,511. PROCESS FOR PREPARING SPINACH AND THE LIKE FOR CANNING. WILLIAM E. THOMAS, Oakland, Calif. Filed Sept. 27, 1927. Serial No. 222,399. 6 Claims. (Cl. 99—8.)

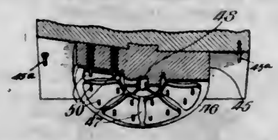
1. A process for preparing vegetables for canning, which comprises wilting the vegetable at the maximum temperature at which the formation of phæophytin from the chlorophyll thereof would be insufficient to appreciably affect the natural color of the vegetable.

1,685,512. SCALPER. JOHN J. VARUSKY, Minneapolis, Minn., assignor to Carter-Mayhew Manufacturing Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 17, 1927. Serial No. 213,518. 8 Claims. (Cl. 83—44.)

3. A scalping machine comprising a drum-like screen arranged to rotate on an approximately horizontal axis, a supply hopper, a delivery deck receiving from said hopper and delivering against the upwardly moving portion of said screen, said deck being mounted for angular adjustments in a vertical plane for varying the depth of flow from the angle of repose to different points on said screen, and means subject to the flow of stock and having connections to said deck for vertically adjusting the latter and arranged to raise the delivery edge of said deck under decreasing supply of stock and to lower the delivery edge of said deck under increasing supply of stock.

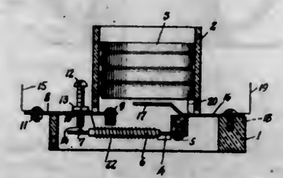


1,685,513. APPARATUS FOR FORMING WHEELS. CARL L. WILBER, Detroit, Mich., assignor to Jefferson Forge Products Company, Detroit, Mich., a Corporation of Michigan. Original application filed June 13, 1921, Serial No. 477,083. Divided and this application filed Apr. 7, 1923. Serial No. 630,511. 6 Claims. (Cl. 164—20.)



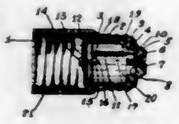
1. A finishing trimmer for spoked-wheel forgings comprising a lower die having wheel receptive cavities, a punch die coacting with the lower die to strike the wheel into said lower die, a lift block in said lower die cavities, means for raising and lowering said lift block, and plungers in said punch die for coacting with the interspoke flashes.

1,685,514. SOCKET FLASHER. NATHAN ABRAMSON, Brooklyn, N. Y. Filed Mar. 6, 1926. Serial No. 92,862. 2 Claims. (Cl. 200—115.5.)



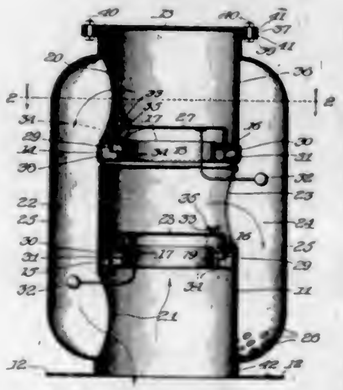
1. In a device of the class described, a receptacle for housing a translating device, a hollow base for housing a thermostatic switch, said switch being perpendicular to the axis of said receptacle, an adjusting means on the outside of the base and adjacent to the receptacle and parallel thereto.

1,685,515. FLASHING PLUG. NATHAN ABRAMSON, Brooklyn, N. Y. Filed Feb. 3, 1927. Serial No. 165,652. 4 Claims. (Cl. 200—122.)



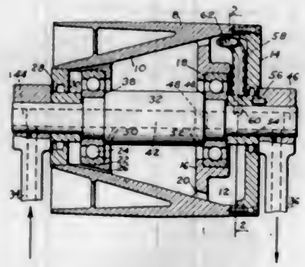
4. A flashing plug, comprising, a tubular conducting shell having one end formed for insertion into an outlet socket to electrically connect said shell and the socket on one side of the circuit, an insulating supporting member within the shell carrying a center contact for the other side of the circuit, a thermostat mounted on one end of said supporting member and extending longitudinally within said shell with its other end free to vibrate with changes in temperature, said thermostat being electrically connected to said center contact, a heating coil controlled by the movement of the thermostat for intermittently heating the thermostat, an adjusting screw, one end of which forms the contact for a lamp to be flashed and the other end of which is in close proximity to the thermostat, said adjusting screw being in electrical connection with the heating coil, said shell constituting the other circuit connection of the lamp to be flashed.

1,685,516. LIQUID SEAL. HAROLD V. ATWELL, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Nov. 5, 1925. Serial No. 67,188. 6 Claims. (Cl. 277—61.)



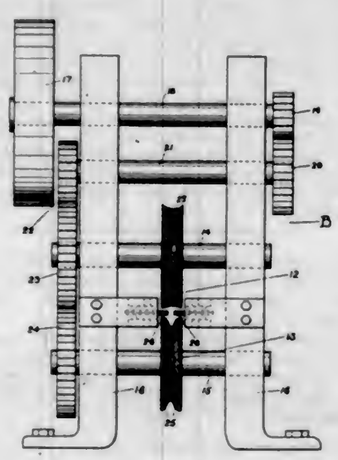
4. In combination, an open vent-pipe, a liquid containing channel surrounding said pipe, an inverted cup over said vent-pipe and having its sides immersed in the liquid in said channel, pivot means for said inverted cup at one side thereof whereby the cup may be tilted upwardly to permit the escape of vapor from the vent, means extending downwardly from the underside of said cup and rearwardly of said pivot means for counterbalancing the weight of said inverted cup and means to prevent racking of the seal.

1,685,517. BEARING MOUNTING. HARRY G. BALDWIN, New Haven, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Mar. 3, 1926. Serial No. 91,958. 3 Claims. (Cl. 308—117.)



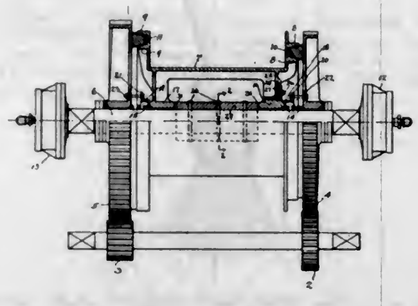
1. In a bearing mounting, a shaft having a central bore, a rotary member having a lubricant collecting chamber therein, bearings between the shaft and the rotary member, means for directing lubricant from the bore in the shaft to the bearings, hollow standards supporting the shaft and communicating with the bore in the shaft, plugs for closing the ends of the bore or cutting off communication of the bore with the hollow standards, a removable plug for dividing the bore into compartments, and means for delivering lubricant from the lubricant collecting chambers to the bore; substantially as described.

1,685,518. METHOD OF MAKING LEAD CAMES. WILLIAM J. BURROWS, St. Paul, Minn. Filed June 17, 1926. Serial No. 116,588. 1 Claim. (Cl. 80—30.)



The method of finishing and ornamenting lead cames of the type consisting of two substantially parallel flanges joined at substantially their central portions by a web comprising passing the came through rotary die means acting upon the outer surfaces of said flanges to ornament the same and at the same time passing the web of the came through rotary means disposed at right angles to said die means to serrate both surfaces of said web and force the material of said web about a reinforcing means therein.

1,685,519. DEMOUNTABLE WINDING DRUM. OSCAR B. BJORGE, Portland, Oreg., assignor to Clyde Iron Works, Duluth, Minn., a Corporation of Maine. Filed Sept. 6, 1924. Serial No. 736,260. 4 Claims. (Cl. 254—187.)

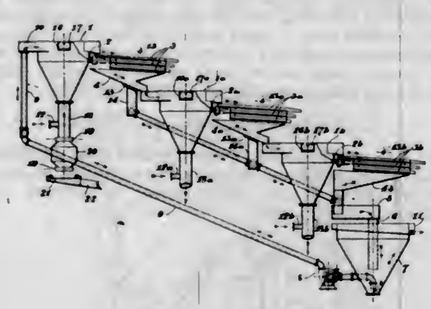


1. In mechanism of the character described, the combination of a shaft, a drum freely rotatably mounted thereon, a cylindrical collar fixed on said shaft within the drum and adapted to be engaged by the respective hub ends of the drum, one such hub-end being separable from the drum, and a cylindrical abutment carried by said drum to surround and be supported by the separable hub.

1,685,520. PROCESS OF CONTROLLING RATE OF OXIDATION. HECTOR RUSSELL CARVETH, Niagara Falls, N. Y., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 29, 1926, Serial No. 84,543, and in Germany June 6, 1925. 15 Claims. (Cl. 23—184.)

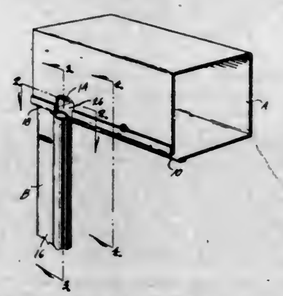
12. A product of manufacture consisting in a pulverulent mixture comprising a finely divided alkali metal and a pulverulent material inert to said alkali metal.

1,685,521. SEPARATION OF MATERIALS OF DIFFERENT SPECIFIC GRAVITIES. THOMAS M. CHANCE, Merion, Pa. Filed June 28, 1927. Serial No. 202,030. 3 Claims. (Cl. 209—173.)



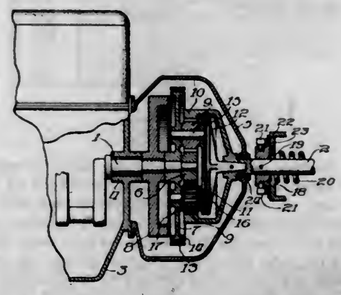
1. A method of separating materials of different specific gravities which consists in immersing said materials in a fluid mass consisting of an agitated mixture of liquid and comminuted solids heavier than said liquid and substantially insoluble therein and having a specific gravity intermediate that of the lighter and heavier of said materials, in providing a plurality of individual fluid masses of the described type, in locating the top of said fluid masses at vertically differing elevations, said differences in elevation depending upon the horizontal distances separating said bodies, in proportioning the gradients between said fluid masses to permit the free flow of liquids by gravity from the top of the fluid mass at a higher elevation to that of one at a lower elevation, in separately feeding into each of said fluid masses materials to be separated thereby, in causing a mixture of comminuted solids and liquid to be circulated from a body of such mixture located at an elevation below said fluid masses into and across the higher of said fluid masses, in separating lighter materials transported by said fluid mixture away from said fluid mass from the constituents of said mixture and of said fluid mass intermixed therewith, in then passing said circulating mixture into and across the top of another of said plural separating fluid masses, in separating the lighter materials carried away from said second fluid mass by said circulating mixture, and in returning said circulating mixture after the removal of said lighter materials into the said body of said mixture located at said lower level.

1,685,522. RETHREADER FOR SCREENS. HARRY DIXSON, Pella, Iowa, assignor to Rolscreen Company, Pella, Iowa. Filed Feb. 19, 1927. Serial No. 169,556. 3 Claims. (Cl. 156—39.)



3. In combination with a screen, a guide track provided with a slit opening extending lengthwise of the track, the side edge of the screen being received in the guide track, and a casing having an opening therein and having a notch formed therein, said notch being positioned at the upper end of said track whereby if the side edge of the screen is accidentally withdrawn from the guide track, it may travel into said casing over the upped end of said track and through said notch for allowing it to reenter said track when the screen is withdrawn.

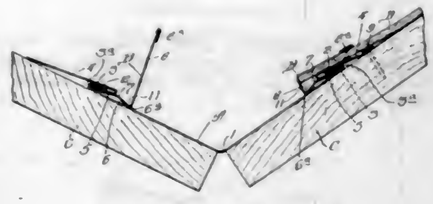
1,685,523. TRANSMISSION. ADIEL Y. DODGE, South Bend, Ind. Filed June 7, 1926. Serial No. 114,081. 6 Claims. (Cl. 74—34.)



1. A variable speed transmission comprising a rotatable driving member, a rotatable driven member coaxial therewith, a gear secured to rotate with the driving member and

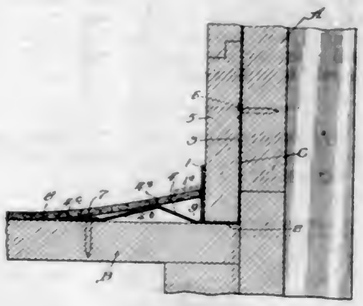
coaxial therewith, a gear secured to rotate with the driven member and coaxial therewith, a gear carrier coaxial with said gears, a gear mounted on said gear carrier and meshing with both said coaxial gears and means for variably controlling the relative rotation of said gear carrier with respect to said driven gear comprising a drag member secured to rotate with said gear carrier, and a second drag member cooperating with said first drag member and rotatable with said driven member, the gear which is rotatable with the driven member being an internal gear and having a chamber in which said drag members are located.

1,685,524. VALLEY, HIP, AND RIDGE CONSTRUCTION FOR ROOFS. FLOYD DOW, Wyanet, Ill. Filed Aug. 17, 1925. Serial No. 50,615. 7 Claims. (Cl. 108—24.)



1. The combination of a ridge or valley strip provided at its lateral edges with interlock-flanges, and flashing-strips provided medially with interlock-flanges adapted to engage said first-named flanges, each flashing-strip having one wing adapted to project past the lateral edge of the first mentioned strip and serve as a nailing-strip and another wing adapted to serve as an edge-binding for the roof-covering.

1,685,525. FLASHING FOR ROOF CONSTRUCTION. FLOYD DOW, Wyanet, Ill. Filed Aug. 17, 1925. Serial No. 50,616. 2 Claims. (Cl. 108—26.)



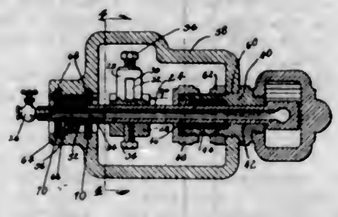
1. A flashing for the purpose set forth, comprising a strip of sheet-metal bent upon itself to afford an intermediate flange, one wing of the metal being then bent to form a web and then bent upwardly to form a nailing-strip, thus affording a channel for the siding between said flange and nailing-strip, and the other wing being bent to provide a skirt adapted to rest upon and having its marginal portion secured to the roof, the intermediate portion of said skirt being provided with an apex adapted to serve as a bearing for the roof-covering and with a channel adapted to serve as a gutter between said apex and said flange.

1,685,526. LATHER BRUSH. ORVILLE D. EARON, Montclair, N. J., assignor to Isabel Earon, Montclair, N. J. Filed Oct. 18, 1926. Serial No. 142,262. 6 Claims. (Cl. 15—193.)



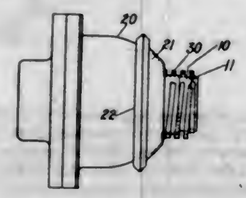
1. In a lather brush, the combination of an annular body, a ring in the body, a knot of bristles having one end thereof in the ring, said ring being provided with an outwardly extending tooth imbedded in the body to rigidly secure the ring against rotation relatively to the body, and a handle secured to the body.

1,685,527. JOURNALING MEANS FOR HOLLOW FLOAT-ARM SHAFTS. JACOB EIGE, Marshalltown, Iowa, assignor to The Fisher Governor Company, Marshalltown, Iowa. Filed Dec. 27, 1927. Serial No. 242,623. 9 Claims. (Cl. 137—104.)



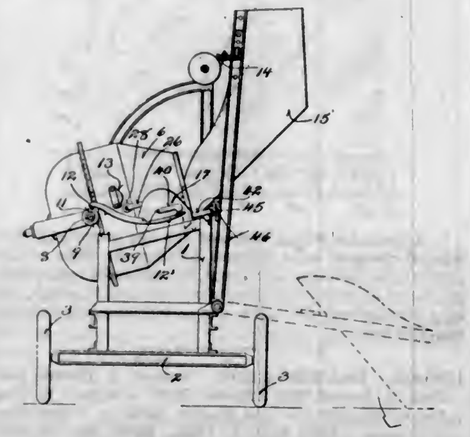
1. A device of the character disclosed comprising a hollow float arm, a float arm casing receiving the float arm, a journal extending from the side of said casing, a hollow shaft extending through said journal and connected with the float arm, a frame projecting from said casing, a ball bearing supported in said frame and spaced from said journal, said hollow shaft extending through said ball bearing and a valve on the outer end thereof.

1,685,528. SPRING-RETAINED CASING FOR UNIVERSAL JOINTS. HARRY MAWSON FUNNELL, New Market, N. J. Filed Apr. 4, 1927. Serial No. 180,796. 4 Claims. (Cl. 64—89.)



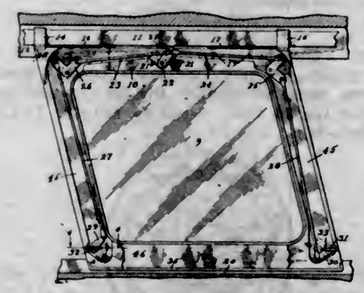
1. A device of the class described a shaft provided with an annular groove extending around the shaft, a coiled spring adapted to freely function on the shaft and having one end coil smaller than the diameter of the effective portion of the spring so that when the reduced end coil engages the groove it is held therein by the radial compression of the end coil and additionally secured by the adjacent coil when the spring is under compression.

1,685,529. AUTOMATIC LOCK AND RELEASE FOR CONCRETE MIXERS. MICHAEL GILSON, Port Washington, Wis., assignor to Kivik-Mix Concrete Mixer Co., Port Washington, Wis. Filed Apr. 14, 1927. Serial No. 183,704. 6 Claims. (Cl. 83—73.)



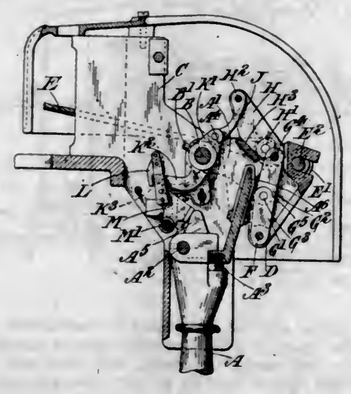
1. A concrete mixer comprising a frame, a revoluble mixing drum pivotally carried by said frame, latching mechanism temporarily restraining said drum against tilting motion, a charging bucket, means for elevating said bucket to deliver a charge to said drum, a cam carried by said drum, a ratchet wheel and pawl actuated from said cam, a second cam carried by said ratchet wheel, and means actuated by said second cam for tripping said latch after said drum has executed a predetermined number of revolutions.

1,685,530. AUTO TOP. FRANK D. GOULD, Oakland, Calif. Filed Sept. 18, 1923. Serial No. 663,381. 7 Claims. (Cl. 296—47.)



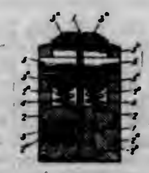
1. The combination with a horizontally sliding closure for vehicles, of an overhead track, hangers having hooks to fit slidably over the track, and connecting means between the hangers and the closure, whereby when the closure is depressed the hooks are caused to tilt and grip the track.

1,685,531. CONTROL MECHANISM FOR ELECTRIC SWITCH GEAR. WILLIAM ANDERSON, Hebburn-on-Tyne, and HENRY WILLIAM CLOTHIER, Wallsend-on-Tyne, England, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Jan. 4, 1926, Serial No. 79,242, and in Great Britain Jan. 14, 1925. 9 Claims. (Cl. 200—17.)



9. In control mechanism for an electric switch the combination of a switchgear housing, a handle comprising an upper part pivoted to the housing and a lower part yieldingly connected to the upper part by means of a pivot and a spring, a switch-operating arm turning about the same axis as the handle, a forked lever pivoted on the upper part of the handle, a toggle connecting the forked lever to the switch-operating arm, a projection on the forked lever adapted to break the toggle, a stop on the upper part of the handle adapted to prevent further rotation of the forked lever after the toggle has been broken, a catch lever also turning about the same axis as the handle, a link forming a toggle with the catch lever and connecting the catch lever to the forked lever, a member pivoted on the switchgear housing, a catch pivoted on this member and forming a toggle therewith and adapted to engage the catch lever when the trip mechanism is set, a projection on the lower part of the handle adapted to release the catch and a locking device for the handle so constructed that the lower part of the handle with its projection is capable of limited movement in order to release the catch whilst the upper part is held against movement until the opening of the switch has released the locking device.

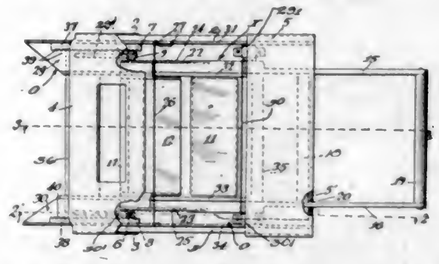
1,685,532. KNIFE BAR FOR PAPER CUTTING AND FOLDING MACHINES. HENRY F. BECHMAN, Battle Creek, Mich., assignor to Duplex Printing Press Company, Battle Creek, Mich., a Corporation of Michigan. Filed Oct. 1, 1927. Serial No. 223,868. 3 Claims. (Cl. 164—66.)



1. A knife bar for the purpose specified, comprising opposite box members having recesses in their opposed sides, means for fastening the members together, a knife blade secured between the box members extending between the recesses in said members and pins attached to

the box members at opposite sides of the blade adapted to contact with the sides of the blade and support the blade against lateral deflection during the cutting operation.

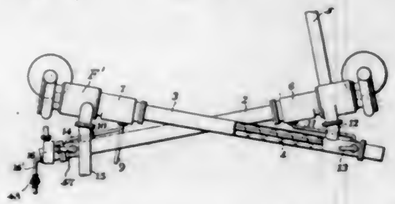
1,685,533. SLICING CUTTER FOR BUTTER, BREAD, AND THE LIKE. JAMES S. DONNELLAN, Los Angeles, Calif. Filed Mar. 9, 1927. Serial No. 173,953. 9 Claims. (Cl. 31—27.)



4. A slicing machine comprising in combination a pair of slidable doors, a pair of slidable cutters spaced from said doors, and means for moving said doors and cutters so that said cutters separate as said doors approach each other and vice versa, whereby material placed on said doors may be sliced and dispensed.

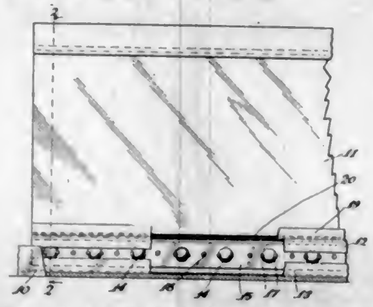
6. A slicing machine comprising in combination a base plate having an aperture therethrough, a frame slidable in said base plate, said frame having thereon a cutter and a door, a second frame slidable in said base plate, having a door and a cutter thereon, there being an operative connection between said frames to cause them to travel in opposed paths, whereby said doors may be brought together over said aperture or removed therefrom, and said cutters may be brought together above said aperture or removed therefrom.

1,685,534. APPARATUS FOR THE SEPARATION OF OIL FROM OIL-CONTAINING SUBSTANCES. CARL DRAHN, Magdeburg, Germany, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed Feb. 4, 1927, Serial No. 165,960, and in Germany Dec. 9, 1925. 7 Claims. (Cl. 87—6.)



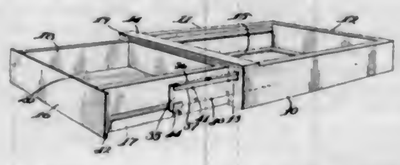
1. In apparatus for extracting oil from oil-bearing material, a series of interconnected extraction chambers each adapted to contain a quantity of solvent, means for charging oil-bearing material into the first of said series of chambers, means for conveying the oil-bearing material through said chambers in succession, whereby some of the solvent in each chamber is carried along with the oil-bearing material to the discharging end of the chamber, pressure means at the discharging end of each chamber adapted to press the solution of oil in solvent from the oil-bearing material, means for conveying said solution from each of said pressure means except the one associated with said first extraction chamber to the end of the preceding extraction chamber into which the oil-bearing material is charged, means for supplying fresh solvent to the charging end of the last of said series of containers, and means for leading off the oil solution from the pressure device of said first chamber.

1,685,535. TRACK FOR SLIDING SASHES. ROBERT I. EUSTIS and FRED S. BEIGER, Los Angeles, Calif., assignors to The Eustis Specialty Co., Los Angeles, Calif., a Corporation of Nevada. Filed Feb. 24, 1926. Serial No. 90,269. 2 Claims. (Cl. 16—100.)



1. A track for sliding sash and the like comprising two opposed channels, balls disposed between the edges of the walls of the channels, and a cage for said balls comprising two strips of metal having apertures therein in which the balls are disposed and means for maintaining the balls in said apertures.

1,685,536. DRAWER SLIDE. ROBERT I. EUSTIS and FRED S. BEIGER, Los Angeles, Calif., assignors to The Eustis Specialty Co., Los Angeles, Calif., a Corporation of Nevada. Filed Sept. 7, 1926. Serial No. 133,842. 19 Claims. (Cl. 45—77.)



15. A drawer construction comprising two parallel side walls, a drawer having its sides therebetween, means providing two flanges extending into grooves in each side and its adjacent side wall and being movably disposed therein, said flanges being arranged one beneath the other but extending in opposite directions, and means connecting the flanges to each other.

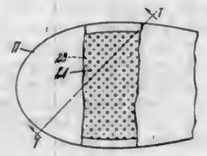
1,685,537. CIRCUIT CONTROLLER. WALTER S. GARLAND, Washington, D. C. Original application filed Feb. 12, 1926, Serial No. 87,873. Divided and this application filed Aug. 16, 1926. Serial No. 129,478. 11 Claims. (Cl. 200—84.)



1. A circuit controller including a rotatable shaft, means carried thereby and provided with a surface having a series of cams, a contact carried by each of said cams,

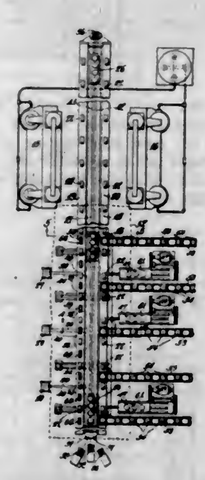
contact members insulated with respect to said contacts, a pivotally and slidably mounted brush urged to coact with said surface and movable both pivotally and slidably by each cam as said shaft is rotated in either one direction or the other to close a circuit through the contact of such cam and one of said contact members respectively, and float-operated means for rotating said shaft.

1,685,538. SOLE FOR BOOTS AND SHOES. ALFRED A. GLIDDEN and THOMAS M. KNOWLAND, Watertown, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed July 22, 1927. Serial No. 207,790. 1 Claim. (Cl. 36—30.)



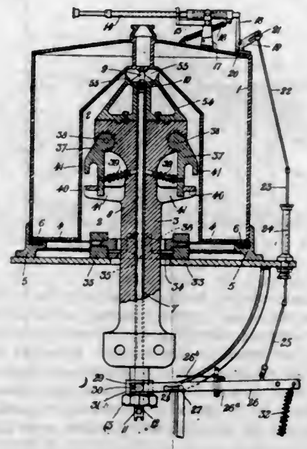
A sole for boots and shoes having, in combination, a body portion, comprising a plurality of layers of rubber, and a plurality of perforated metal plates, with one plate between each of said rubber layers, the rubber of said layers being bounded together through said perforations, and the perforations of adjacent plates being out of alignment with each other.

1,685,539. ELECTROMAGNETIC CARRIER SYSTEM FOR HEAVY PLATES. ALFRED GOODFELLOW, Coatesville, Pa., assignor to Charles L. Huston, Coatesville, Pa. Filed Mar. 19, 1925. Serial No. 16,672. 7 Claims. (Cl. 164—48.)



1. The process of transferring heavy metal plate and cutting it in step by step operation, which consists in gripping the plate electromagnetically from below, in progressing the plate to an initial setting above the shearing position by movement of the electro-magnet while maintaining the grip, lowering the plate, operating upon the plate concurrently upon opposite sides, raising it and shifting the plate while maintaining alignment by the shifting means to a setting for repetition of the operation.

1,685,540. APPARATUS FOR RAISING AND LOCATING SUBMERGED VESSELS. THOMAS HODGES, THOMAS ROBERT WILLIAM HODGES, and REGINALD HODGES, Callestick, England. Filed July 7, 1926. Serial No. 121,009, and in Great Britain Mar. 23, 1926. 12 Claims. (Cl. 114—51.)



1. Apparatus for raising and locating submerged vessels comprising two or more bollards secured upon the vessel, floats normally located over said bollards, means for releasing said floats, a cable or its equivalent attached to each float, said cable being adapted to be utilized as a guide for lowering a shackle member into engagement with said bollard, means whereby the shackle can automatically be coupled to said bollard to enable a hawser or the like connected to the shackle to be utilized for raising the vessel, said float having a vertical rod attached to its vertical axis and passing through said bollard, means being provided for engagement with said rod for holding the float in position and for releasing same.

1,685,541. ARTIFICIAL TEETH AND MEANS FOR FIXING THE SAME. CHRISTE JOANNIDES, London, England. Filed Dec. 27, 1920, Serial No. 433,418, and in Great Britain Jan. 13, 1920. 1 Claim. (Cl. 32—9.)

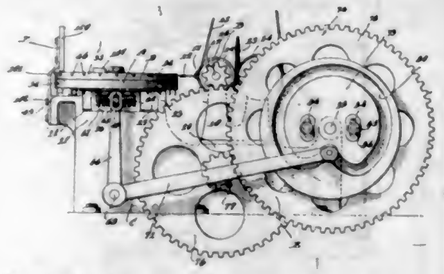


An artificial tooth having a rigid pin for attachment to a backing, the portion of the pin within the tooth being elongated in cross-section in the direction of the length of the tooth, and the portion of the pin exterior of the tooth merging gradually from said elongated section to a circular cross-section, the two said portions being substantially in axial alignment, the portion of the pin exterior to said tooth terminating in an enlarged head, the axis of which is inclined to the axis of the tooth.

1,685,542. AUTOMATIC FEEDING MECHANISM FOR TAPPING MACHINES. SIMON KAIL, Akron, Ohio. Filed Jan. 21, 1925. Serial No. 3,856. 10 Claims. (Cl. 10—139.)

1. The combination with a tapping machine, of a device for feeding articles to be threaded to said tapping machine including a rotary and reciprocatory table, speed reduc-

ing mechanism operatively connecting said table with said tapping machine to permit synchronous operation thereof, a plurality of article receiving seats formed in said table, means for feeding the articles to said seats, and automatic means for removing the articles from said seats after being acted upon by said tapping machine.



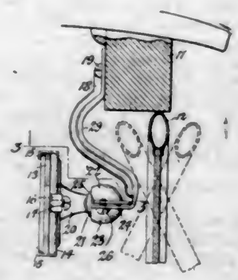
6. In a machine for feeding articles to be threaded to a tapping machine, a slide block having a horizontally disposed longitudinally extending slot, a work receiving table carried by the block, a cross head arranged centrally within the slot in said block, expansion springs engaging said cross head and normally holding the same at the transverse center of the slot, trunnions formed on the opposite ends of the cross head and rocker arms for engaging said trunnions.

1,685,543. BURNER FOR REGENERATIVE FURNACES. MICHAEL JOHANN LACKNER, Dortmund, Germany. Filed Feb. 24, 1926. Serial No. 90,356, and in Germany Feb. 21, 1925. 2 Claims. (Cl. 263—15.)



1. A burner construction for regenerative furnaces comprising three flues for conveying the combustion air and fuel gases; a slag pocket for each flue for collecting the slag particles which may be carried in the fuel gases; a mixing flue for connecting the flues with each other and with a furnace chamber, said mixing flue increasing in size toward the furnace chamber; and means for interconnecting two of the slag pockets.

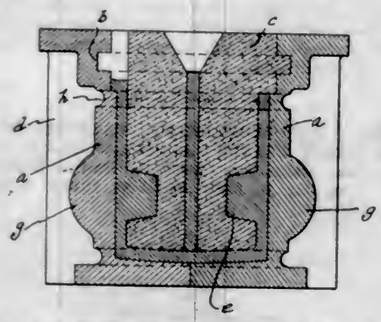
1,685,544. MIRROR BRACKET. WILLIAM LA HODNY, Buffalo, N. Y., assignor to Standard Mirror Co. Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 15, 1924. Serial No. 706,693. 2 Claims. (Cl. 45—97.)



1. A mirror bracket comprising a head adapted to be attached to a mirror and provided on its rear side with a ball, a base having a hanger adapted to be attached to a support and provided with a forwardly projecting lug having a half socket and a perforated seat above said half socket, a clamping plate arranged above said lug and having a half socket which forms a complete socket with the half socket in said lug and also provided on its rear edge with a radial retaining teat which loosely engages with said perforated seat, said complete socket receiving said ball, and clamping screws connecting said lug and clamping plate on opposite sides of said socket for holding said ball frictionally in place therein.

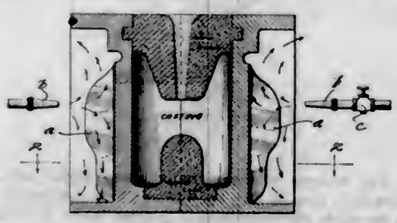
2. A mirror bracket comprising a head adapted to be attached to the rear side of a mirror, a base having a hanger which is adapted to be attached with its upper end to the frame of an automobile canopy and an adjustable connection between the lower end of said hanger and the rear side of said head, said hanger having that part thereof between its upper and lower ends deflected inwardly to provide a clearance space which is adapted to receive a part of the windshield, and the lower end of said hanger being offset forwardly relatively to the upper end thereof for bringing the mirror close to the windshield and the upper end of said hanger extending inwardly beyond the center of the pivotal connection between the lower end of the bracket and the mirror supporting head.

1,685,545. PERMANENT MOLD CONSTRUCTION. HARRY S. LEE, Plymouth, Mich. Filed Oct. 10, 1925. Serial No. 61,673. 8 Claims. (Cl. 22—77.)



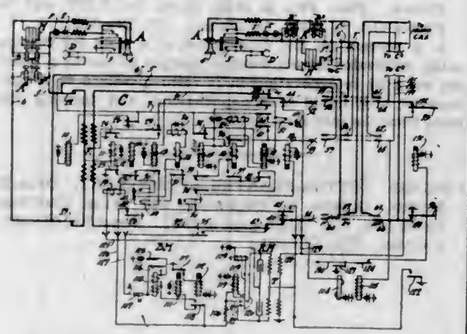
1. In a permanent mold for casting bodies, a mold section having walls contacting with a cast body for conducting heat away from said casting, a portion of the wall sections reduced in cross sectional area at determined points to choke back the heat and reduce the heat conductivity through said wall sections.

1,685,546. PROCESS FOR CONTROLLING METAL CASTINGS. HARRY S. LEE, Plymouth, Mich. Filed Mar. 8, 1926. Serial No. 93,056. 2 Claims. (Cl. 22—212.)



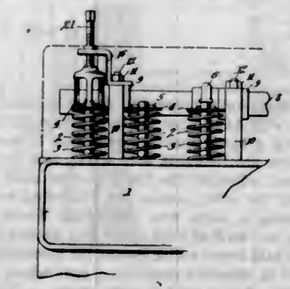
1. In the art of casting ferrous metals in permanent molds, the method of obtaining predetermined varied characteristics in the metal of a cast article, which consists in the controlling of the dissipation of the heat from the cast metal by the application of a regulable cooling fluid to local portions of the mold walls so that such heat is dissipated from various portions of the cast metal in such degrees of rapidity as will effect the varied characteristics in the cast metal.

1,685,547. AUTOMATIC TELEPHONE SYSTEM. CLARENCE E. LOMAX, Oak Park, Ill., assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 20, 1926. Serial No. 96,150. 29 Claims. (Cl. 179—17.)



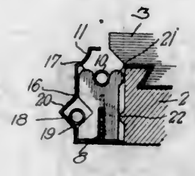
1. In a telephone system, a connector connected to a calling line, ringing equipment comprising a transformer and an interrupter for intermittently connecting one terminal of a source of current to one terminal of the primary winding of said transformer, the other terminal of said source being normally disconnected from the other terminal of said primary winding, means in said connector responsive to the initiation of a call by the calling subscriber for actuating said interrupter, means in said connector responsive to digits dialled by the calling subscriber for extending the connection to a called party line, and means responsive to other digits dialled for connecting said other terminal of said source to said other terminal of said primary winding and for connecting the secondary winding of said transformer to the called line for long or short intervals depending on the digit dialled to signal a desired party on said line.

1,685,548. VALVE-SPRING COMPRESSOR. WILLIAM F. HOUBLEY, Annapolis, and EDWARD G. TOWNSEND, Camp Parole, Md. Filed Dec. 9, 1927. Serial No. 238,899. 14 Claims. (Cl. 29—86.3.)



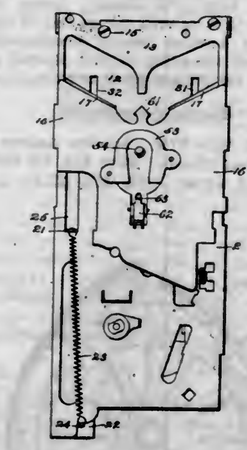
1. A valve spring compressor comprising a bracket adapted to be secured to an engine cylinder head while the latter is operatively assembled with the engine block, said bracket having a foot portion formed for attachment to the engine head, a head on said bracket horizontally and vertically spaced from said foot portion, a pressure device carried by said head, and means on said device adapted to compress a valve spring.

1,685,549. SHORT CIRCUITER. EVERETT P. LARSH, Dayton, Ohio, assignor to The Master Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 7, 1924. Serial No. 704,670. 10 Claims. (Cl. 172—279.)



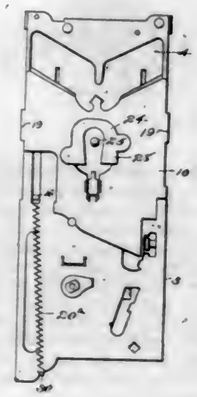
1. A short circuiter construction for electric motors of the type wherein an annular series of weights are radially movable under centrifugal influence against the yielding resistance of a tension element to effect the electrical interconnection of the windings of a motor, characterized by a disc mounting for the radially movable weights the margin of which is straddled by the weights which are bifurcated for such engagement, the disc being provided with peripheral notches and certain weights of the series being seated in such notches and dividing the series of weights into groups for the purpose of insuring rotation of the weights in unison with the disc, said weights being radially movable independently thereof.

1,685,550. COIN-DETECTING VENDING MACHINE. JAMES H. MANN, Jr., Mont Eagle, Tenn., assignor to Southwestern Sales Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 27, 1924. Serial No. 695,485. 1 Claim. (Cl. 194—97.)



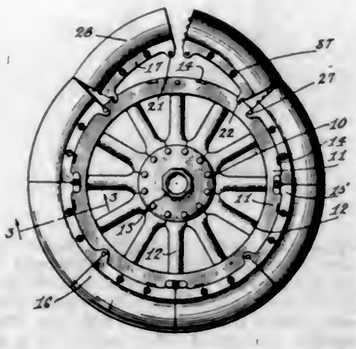
In combination, a frame, a coin-completing mechanical drive, a coin detecting chute formed in the wall of the frame, and an oscillating plate, means to arrest spurious inserts in said chute, and means to dislodge and by-pass said arrested inserts from said chute and away from the coin completing mechanical drive comprising a sliding plate having beveled flanges and an offset thereon, said flanges operating the oscillating plate to spread it away from the adjacent wall at an angle thereto and said offset operating the arresting means to dislodge the arrested insert, and means to actuate said plate and to restore it to normal position.

1,685,551. SPURIOUS-COIN SEGREGATOR. JAMES H. MANN, Jr., St. Petersburg, Fla., assignor to Southwestern Sales Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Feb. 27, 1924, Serial No. 695,484. Divided and this application filed Apr. 29, 1925. Serial No. 26,756. 2 Claims. (Cl. 194—101.)



1. In a coin controlled vending machine, the combination with a fixed back plate and a plate having a coin channel therein, of a pivoted plate forming another wall of the channel and having an opening therethrough, a magnet mounted on said pivoted plate and located adjacent to said channel to arrest magnetic inserts, a slidable plate provided with means for oscillating said pivoted plate to spread it away from said channelled plate to by-pass magnetic inserts from said channel, means carried on said back plate to pass through the opening in said pivoted plate to dislodge arrested inserts simultaneously with the oscillation and spreading of said pivoted plate, and means to restore the pivoted plate to normal position.

1,685,552. TIRE AND RIM. ARTHUR JOSEPH MICHAUD, Montreal, Quebec, Canada. Filed Feb. 19, 1927. Serial No. 169,650. 1 Claim. (Cl. 152—22.)

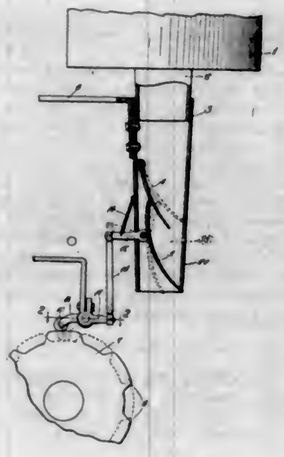


In combination with a vehicle wheel provided with a plurality of transversely extending bolts and pins, a plurality of rim sections formed with casing engaging flanges, apertured ears formed adjacent one end of each rim section, curved projections formed on the opposite end of each rim section engageable with the pins of the wheel, and clamping plates formed with inwardly extending pins engageable with the ears of the rim section and with the bolts to secure the rim sections in position on the wheel.

1,685,553. SAND MOLD FOR CASTING MAGNESIUM AND PROCESS OF MAKING SAME. GILBERT MICHEL, Bagneux, France, assignor to Hart O. Berg, Paris, France. Filed Feb. 5, 1925, Serial No. 7,157, and in France Oct. 4, 1924. 10 Claims. (Cl. 22—188.)

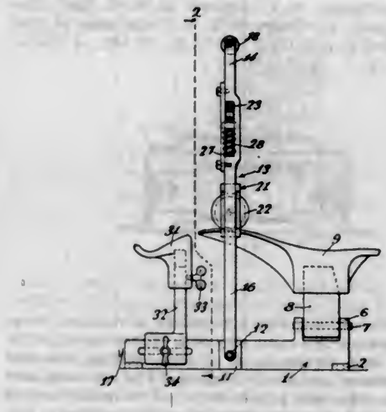
3. A process for the preparation of a mold for casting easily oxidizable metals which comprises preparing a molding sand by incorporating in it rosin dissolved in a non-aqueous oily liquid and naphthalene, and forming the mold from the said sand mixture.

1,685,554. COTTON-PLANTER ATTACHMENT. ONAS E. MORRIS, GEORGE E. CRUMBINE, and WICK GROUNDS, Cedar Hill, Tex. Filed Aug. 6, 1927. Serial No. 211,195. 1 Claim. (Cl. 111—51.)



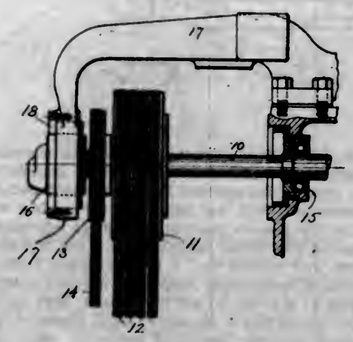
A predetermined-bulk dispensing device adapted for use in connection with the hopper of a cotton planter or the like, comprising a spout leading from said hopper, upper and lower valves positioned in said spout, said lower valve being positioned adjacent the lower end of said spout to open and close the same, means for actuating said lower valve, comprising a valve arm projecting freely through an opening in the wall of said spout and having its inner end secured to said lower valve, means for normally holding said valve arm in elevated position, a gear wheel actuated by said planter and provided with teeth, a rock shaft mounted adjacent said teeth and having its ends extended to form rock arms, a roller engaging said teeth and journaled in the free end of one of said rock arms, a link connecting the free ends of said other rock arm and said valve arm, said upper valve having its upper end hinged to said spout adjacent the upper end thereof and having its lower end resting against the upper end of said lower valve.

1,685,555. MACHINE FOR ROLLING SOLES. CHRIS NOHR, Pasadena, and PETER NOHR, Los Angeles, Calif. Filed Dec. 22, 1927. Serial No. 241,812. 8 Claims. (Cl. 12—84.)



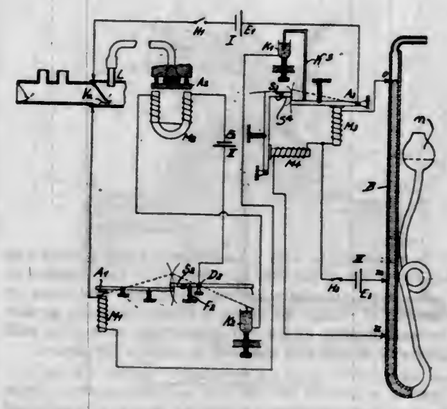
8. A machine for rolling shoe soles, comprising a base, a last mounted on said base, a frame pivoted to said base, and a roller carried by said frame, said frame being adapted for reciprocation to cause movement of said roller across said last.

1,685,556. MACHINE TOOL. WILLIAM WALLACE POTTER, Pawtucket, R. I. Filed Oct. 14, 1927. Serial No. 226,248. 3 Claims. (Cl. 308—22.)



1. A machine tool having a shaft and belt gearing comprising a pulley on the shaft and an endless belt, bearings for said shaft on opposite sides of said pulley and a frame member reaching over said pulley, an opening being provided around one of said bearings through which said belt may be bodily passed.

1,685,557. APPARATUS FOR ANALYZING THE ALVEOLAR AIR FROM THE LUNGS. HERMANN REGELSBERGER, Erlangen, Germany. Filed Sept. 9, 1926, Serial No. 134,486, and in Germany Sept. 15, 1925. 7 Claims. (Cl. 23—257.)



1. Apparatus for analyzing alveolar air comprising a burette, a pipe, a suction tube connecting said pipe and burette, a valve in said pipe, said valve being opened and closed by the air of respiration and means operated by the movement of said valve to open and close the suction tube to allow air to be conveyed to the burette.

1,685,558. LICENSE-DISPLAY DEVICE FOR AUTOMOBILES. SIDNEY J. RIDEAU, New Orleans, La. Filed Apr. 30, 1927. Serial No. 188,002. 1 Claim. (Cl. 40—133.)



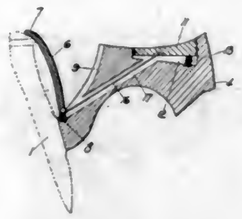
An automobile display device comprising a rectangular casing having an open front and a slot in one end, a stenciled license plate having a flange at one end including a portion for spanning and closing said slot when said license plate is positioned to cover said opening and a portion extending at right angles from the first mentioned portion and provided with a keeper slot, and a lock carried by the casing and having its bolt positioned for engagement in the keeper slot of said flange.

1,685,559. ROOF. WILFRED R. TOBIAS, Los Angeles, Calif. Filed Aug. 10, 1927. Serial No. 211,911. 7 Claims. (Cl. 108—9.)



7. A roof having a roof structure with rows of slates thereon, some rows having the slates overlapping considered from one side to the other, and other rows having the slates overlapping considered from the other side of the roof.

1,685,560. LID HOLDER FOR CONTAINERS. GEORGE TRULOCK, Los Angeles, Calif. Filed Nov. 30, 1927. Serial No. 236,682. 7 Claim. (Cl. 53—3.)

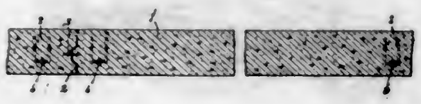


7. In combination with a receptacle having a cover and a handle, a detent pivoted to said handle and adapted to be optionally extended therefrom to engage said cover or withdrawn to release the cover, a trigger pivotally mounted on said handle, and a rod operatively connecting said trigger and detent and adapted to operate the detent.

1,685,561. FOOTWEAR. RALPH A. BUNKER, Yarmouth, Me. Filed July 9, 1927. Serial No. 204,643. 2 Claims. (Cl. 36—45.)

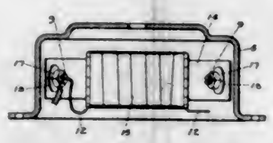
1. Sportsmen's footwear having a vamp, said vamp having an upwardly extending apron, quarters extending upwardly from the rear portions of the vamp, adjustable means to tightly secure the quarters together about an ankle, and adjustable means to tightly secure the apron around the quarters, the later means being unsecured to the quarters and extending from the apron and adapted to surround the quarters.

1,685,562. REENFORCED CONCRETE ROADWAY. BERNARD BRIDDY, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed Mar. 24, 1924. Serial No. 701,282. 2 Claims. (Cl. 94—8.)



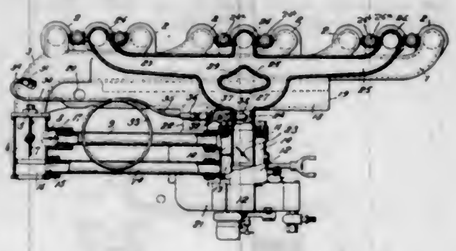
1. In a roadway, a continuous concrete slab, thin metal plates set on edge embedded in the lower portion of the roadway and having their upper edges a distance below the upper surface of the roadway, some of said plates extending longitudinally of the roadway and others extending cross-wise of the roadway, and reenforcing bars embedded in the concrete parallel to and on both sides of said plates.

1,685,563. CONDENSER MOUNTING. WILLIAM B. CONNOLLY, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 5, 1925. Serial No. 67,149. 4 Claims. (Cl. 175—41.)



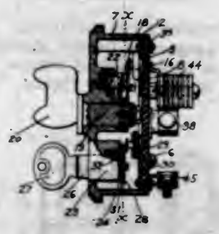
1. The combination, with a condenser of flattened form, with terminals at its ends, and with connecting-wires attached to said terminals, of flexible binding material wrapped endwise around the condenser and enclosing said terminals and the ends of said wires; an elongated strip of flexible material of greater length than the condenser; and flexible binding material wrapped around the condenser and said strip and securing the condenser to the intermediate part of the strip.

1,685,564. INTERNAL-COMBUSTION ENGINE. WILLIAM P. DEPPE, Brightwaters, N. Y. Filed Dec. 9, 1922. Serial No. 605,765. 3 Claims. (Cl. 123—122.)



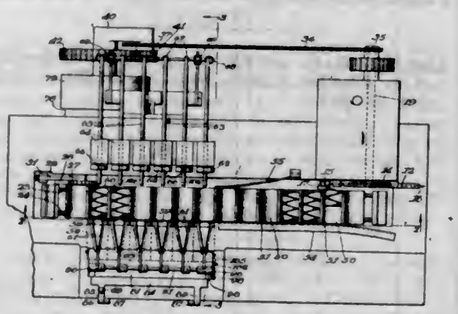
1. In an internal combustion engine, the combination with a carburetor and exhaust and intake manifolds, of means for heating the mixture leaving the carburetor and in the intake manifold, for supplying the engine with a superheated dry gaseous mixture, means for injecting into the mixture in the intake manifold, after the mixture has been heated and become dry, a predetermined amount of hot products of combustion, comprising a tube cut into the exhaust pipe at a point beyond the exhaust port openings, said cut-in tube having a passage of small diameter, a conduit of small diameter connected therewith, said conduit being or larger diameter than the passage in said cut-in tube whereby the exhaust gases are adapted to expand, means comprising coils and bends in said conduit for retarding the flow of the exhaust gas therethrough, a connecting tube entering the intake manifold for injecting the exhaust gases from said conduit into said manifold, and a connecting member between said coiled conduit and said connecting tube, provided with a restricted opening through which the flow of exhaust gases may be controlled according to the speed and throttle opening of the engine.

1,685,565. ELECTRIC SWITCH. FARNUM F. DORSEY, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 4, 1924. Serial No. 684,386. 3 Claims. (Cl. 200—11.)



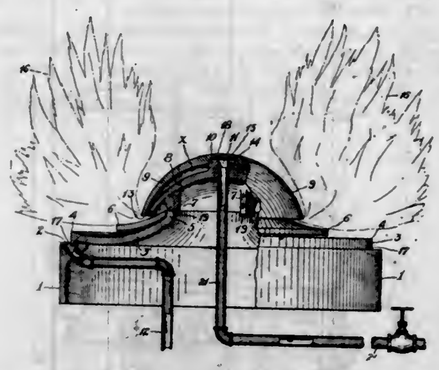
1. A switch comprising: inner and outer concentric, circularly-arranged, stationary contacts lying substantially in one plane, with a space between the inner and outer contacts: two movable contacts each arranged to engage, in each operative position, an inner and an outer stationary contact so as to interconnect them; and means, movable concentrically with the stationary contacts, for moving the movable contacts and pressing them against the stationary contact, said means having the form of a resilient substantially T-shaped arm of sheet metal carrying the movable contacts at its respective ends.

1,685,566. SPRING-INSERTING MECHANISM. JOHN F. GAIL, Evanston, Ill., assignor to Simmons Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 22, 1925. Serial No. 51,729. 5 Claims. (Cl. 226—18.)



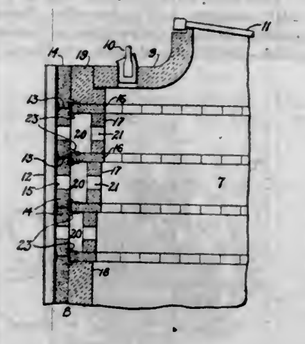
5. In a machine for inserting springs between the folds of a folded flexible strip, the combination of a conveyor having a plurality of spring receiving members secured thereto, means for advancing said conveyor and receiving members step by step, means for delivering springs one by one to said receiving members as the latter are moved into receiving position, a plurality of spaced chutes having portions adapted to enter between the folds of said strip, said chutes being disposed to one side of the receiving members carried by said conveyor so as to register axially with a corresponding plurality of receiving members when the latter are stationary, a pusher for simultaneously thrusting a plurality of springs from said receiving members through said chutes and into said strip, and means for actuating said pusher when a predetermined number of loaded spring receiving members register with said chutes.

1,685,567. HYDROCARBON OIL BURNER. JAMES M. GEE, Cleveland, Ohio. Filed May 1, 1925. Serial No. 27,188. 2 Claims. (Cl. 158—80.)



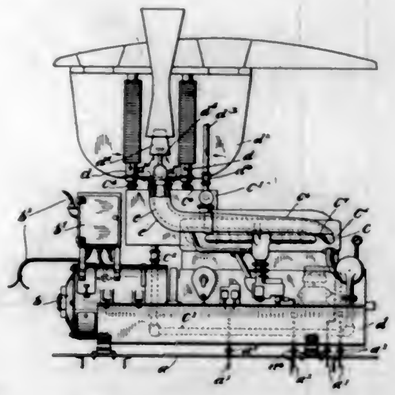
1. An oil burner comprising an inner cupola; an outer cupola mounted thereon and spaced therefrom to form a fuel channel; means forming a conduit adapted to furnish fuel to the inner end of said channel; a bed plate upon which said inner cupola is mounted, said bed plate comprising an annular member having a concave upper surface whose outer peripheral edge lies slightly below the horizontal plane containing the discharge end of said fuel channel; a discular ring loosely mounted upon the inner upper end of said bed plate and extending beyond the projected axis of the discharge orifices of said fuel channel; a base ring formed with an enlarged upper edge having an annular recess, said bed plate being formed with a downwardly-extended outer peripheral flange loosely depending in said recess; and a discharge pipe communicating with the bottom of said recess.

1,685,568. TILE-ANCHORING DEVICE. GEORGE P. JACKSON, Flushing, N. Y., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Original application filed Apr. 21, 1923, Serial No. 633,609. Divided and this application filed Apr. 14, 1925. Serial No. 22,945. 7 Claims. (Cl. 72—101.)



1. A brick-anchoring member comprising a brick-engaging head curved convexly across its outer face, support engaging means constructed to prevent displacement of the member inwardly or outwardly from the support and a web connection between the head and the support-engaging means.

1,685,569. REMOVABLE-UNIT MOUNTING. WILLIAM B. JUPP, Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 19, 1927. Serial No. 214,125. 5 Claims. (Cl. 123—195.)



1. A mounting for an internal combustion engine and electric generator mounted as a unit, auxiliary apparatus including exhaust and radiator elements, and means to mount the latter in a plane above that of the engine and generator unit to permit the unit to be removed by movement in a substantially horizontal plane.

1,685,570. PROCESS OF IMPROVING THE QUALITIES OF NICKEL-BERYLLIUM ALLOY. GEORG MASING, Berlin, and OTTO DAHL, Berlin-Charlottenburg, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Filed Oct. 11, 1927, Serial No. 225,595, and in Germany Sept. 16, 1926. 7 Claims. (Cl. 148—11.)

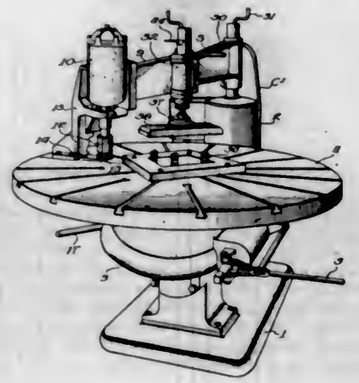
4. A method for improving the qualities of nickel beryllium alloys which contain large proportions of nickel and up to 5% beryllium, consisting in heating the alloys to a temperature above 700° C., after cooling, and afterwards working them mechanically.

1,685,571. DISPLAY STAND. REGINALD B. MELLER, Alameda, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Jan. 8, 1924. Serial No. 684,966. 6 Claims. (Cl. 40—149.)



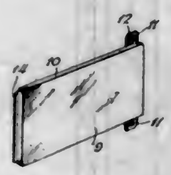
1. A sheet having opposite ends fixedly joined to form a structurally continuous band and provided with creases to permit the folding of the sheet into a stable display stand having a plurality of continuous areas on which a display is shown with its elements in perspective, said sheet having a portion partially severed from more than one of said areas and joined to one of said areas by a crease separate from the creases provided for the folding of the sheet, all of said areas lying in different planes to accentuate the perspective relationships of the elements of said display.

1,685,572. WOODWORKING MACHINE. OSCAR ONSRUD, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1928. Serial No. 251,887. 5 Claims. (Cl. 144—154.)



1. In a woodworking machine having a rotary work support table and a revolving cutter mounted on a swinging arm which is constantly urged to move the cutter into contact with the work mounted on the table, clamping means for holding the work on the table, means for swinging the arm to move the cutter out of contact with the work, and a single control device for controlling both of said means.

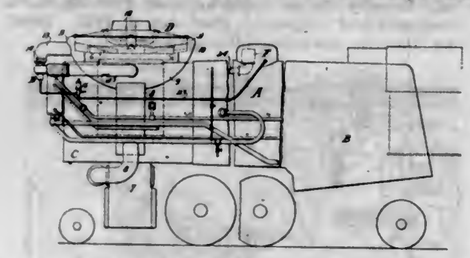
1,685,573. WALL COVERING. PETER ROSSI, Brooklyn, N. Y. Filed Dec. 3, 1927. Serial No. 237,351. 1 Claim. (Cl. 72—19.)



A tile for walls or the like including a body formed from a single sheet of metal and provided about its periphery with a lateral flange, securing lugs projecting from said flange at one end of said body, and an extension formed only at the other end of said body and projecting laterally from the free edge of said flange and engageable beneath the free edge of the flange at the end of a next adjacent tile to provide the sole securing means for the end of the first named tile carrying said extension.

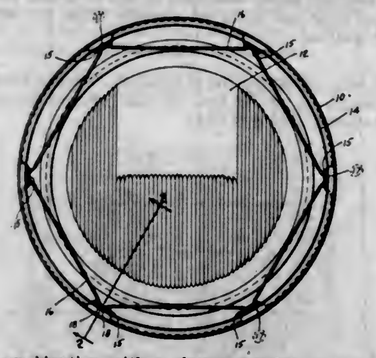
1,685,574. LOCOMOTIVE DRAFT APPLIANCE. EUGENE L. SCHELLENS, Pointe Claire, Quebec, Canada, and JOEL S. COFFIN, Jr., Lisbon, N. H., assignors, by mesne assignments, to C-S Engineering Company, a Corporation of Delaware. Filed May 16, 1925. Serial No. 30,734. 9 Claims. (Cl. 110—162.)

1. In a locomotive, the combination of a draft creating fan operated by exhaust steam, exhaust steam pressure relieving means, and automatic control means therefor, operating to reduce the speed of the fan including a steam



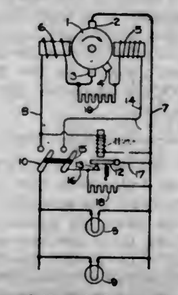
connection leading from the source of live steam, said control means being responsive to the pressure of the live steam when it reaches a predetermined value.

1,685,575. LENS RETAINER. EDGAR D. SPRINGER, Connersville, Ind., assignor to Indiana Lamp Corporation, Connersville, Ind., a Corporation. Filed Oct. 14, 1927. Serial No. 226,250. 1 Claim. (Cl. 240—41.)



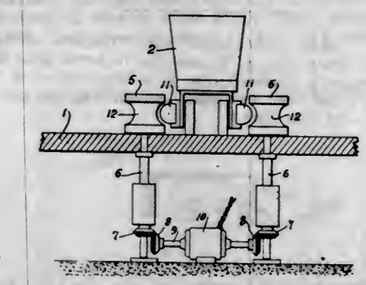
The combination with a closure member, a lens member secured therein, and a plurality of pockets spaced about the inner surface of said closure and from the rear peripheral surface of said lens, of a wire spring retaining ring for securing said lens in said closure member, said ring comprising a plurality of cord-like sides adapted to subtend sections of the periphery of said lens and bear thereagainst under spring pressure, and a plurality of bent portions connecting said cord-like sides adapted to extend into said pockets for retaining said ring in place.

1,685,576. ELECTRIC-LIGHTING SYSTEM. RAYMOND H. SULLIVAN, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 17, 1927. Serial No. 176,265. 2 Claims. (Cl. 171—223.)



1. In a system of the kind described, the combination, with a variable-speed generator of the three-brush type, a lamp-load supplied by the generator, and a vibratory voltage-regulator controlling the current through a field-winding of the generator, of a stabilizing resistance load connected directly between the third brush and the trailing main brush of the generator.

1,685,577. AMUSEMENT DEVICE. AUREL VASZIN, Dayton, Ohio, assignor to The Dayton Funhouse & Riding Device Mfg. Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 11, 1927. Serial No. 167,555. 2 Claims. (Cl. 272—1.)



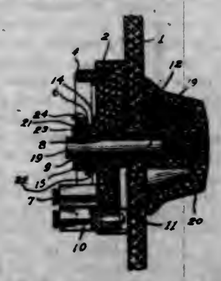
1. In an amusement apparatus, a platform, a passageway leading from the platform and a pair of revolving rollers located above the platform projecting into the exit passageway and so arranged as to engage with a car passing through said passageway unless said car is exactly positioned therebetween, there being space enough between said rollers to permit of said passage if the car is accurately positioned in the passageway, driving means for rotating the rollers, and means for frictionally engaging the rollers with a portion of the vehicle.

1,685,578. TIP. WILLIAM A. VOLLMER, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed June 22, 1925. Serial No. 38,619. 4 Claims. (Cl. 16—42.)



1. A tip of the class described, comprising a convex base plate, the outer edge of which is rolled inward to form a rim for supporting a hollow post, oppositely disposed side members projecting upwardly and conformed substantially to the outline of the inner rim of the base plate and frictionally fitting the interior of the post, the upper ends of said members being bent inwardly and adapted to contact when the members are pressed together.

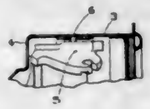
1,685,579. RHEOSTAT CONSTRUCTION. DAVID WALD, New York, N. Y. Filed Apr. 30, 1925. Serial No. 26,874. 4 Claims. (Cl. 201—55.)



4. In a device of the class described, in combination, a block of insulating material, a resistance unit carried thereby, a sleeve extending through said block, a pair of

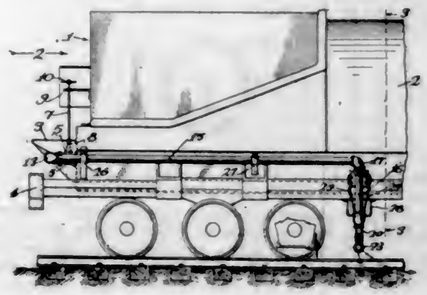
binding posts, one of which is connected with the resistance unit, and the other with said sleeve, said sleeve at its outer end being provided with a screw threaded part, and with one or more flat faces, a contact arm mounted upon said sleeve and having a contact point adapted to traverse said resistance unit, a shaft extending through said sleeve, and being provided with an operating knob or handle, a nut threaded upon said sleeve, and means extending through said nut adapted to hold said sleeve and said shaft in operative relation.

1,685,580. SEAL FOR INSTRUMENT CASES. CYRIL T. WALLIS, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 26, 1927. Serial No. 186,807. 1 Claim. (Cl. 292—307.)



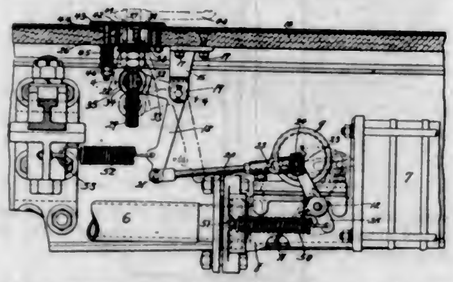
In combination with an instrument comprising a frame-member, enclosed within a case having two overlapping members with coincident perforations: a seal consisting of soft metal and comprising a head and a shank, the seal being seated in said perforations and with the inner end of the shank upset against said frame member so that the seal cannot be withdrawn without mutilation.

1,685,581. TRACK SPRINKLER. WILLIAM H. WHALEN, Los Angeles, Calif. Filed Oct. 5, 1925. Serial No. 60,663. 1 Claim. (Cl. 299—31.)



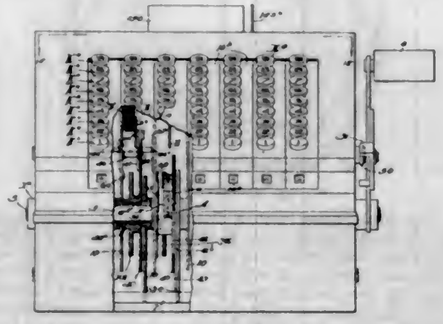
A track sprinkler comprising in combination a locomotive tender having a water tank mounted on a tender frame, a foot plate extending forwardly from the tank, a valve operatively connected to the forward end of the tank below the foot plate and outside the tank, a valve rod connected to the valve and extending upwardly through the foot plate and having a guide bracket adjacent the upper end thereof, a return bend pipe connected to the valve and leading to one side of the tank, a lead pipe extending along the tank rearwardly on the outside thereof, a drop pipe at the rearward end of the lead pipe extending downwardly, a transverse cross pipe extending underneath the tank to a mid-position, a centrally positioned stand pipe connected to the transverse pipe at substantially a central transverse position of the tank, a transverse spray pipe connected to the stand pipe, a rectangular-shaped bracket secured to the lower framing of the tender, supporting the cross pipe and a pair of yokes suspended from the framing of the tender supporting the spray pipe.

1,685,582. VALVE-OPERATING MECHANISM. FRANK A. WHITTEN, Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 1, 1927. Serial No. 180,184. 9 Claims. (Cl. 137—144.)



9. In combination, a plurality of valves, resilient means for each valve for normally urging the latter to closed position, an actuating lever, a bar pivotally connecting said valves and pivotally secured to the actuating lever, and resilient means connected to the actuating lever and acting upon the latter to normally urge the valves to open position.

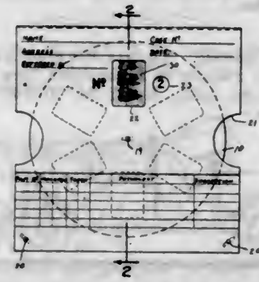
1,685,583. COMPUTING MACHINE. GEORGE BROWNING, Chicago, Ill. Filed Jan. 15, 1920. Serial No. 351,647. 15 Claims. (Cl. 235—60.)



1. In a construction for the purpose indicated, in combination with a fixed support, a registering device mounted thereon; a master gear wheel by which the registering device is rotated; master-actuator; a locking dog carried by the master-actuator for engaging the master wheel with said actuator; a cam-encountering abutment carried by the dog; a cam for encounter of the abutment to force the dog into master-engaging position; a level pivoted on the dog for carrying said abutment movably with respect to the dog; a catch on the dog having means for engaging the abutment-carrying lever to lock it positively on the dog at cam-encountering position of the abutment, and means for releasing the catch in the latter part of the stroke of the master-actuator in the direction for the cam's encounter with the abutment, and after the abutment has passed the cam.

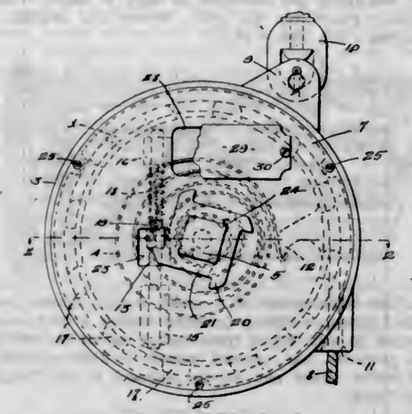
1,685,584. PRINT OR FILM HOLDER. MICHAEL F. DEAN, Indianapolis, Ind. Filed Mar. 14, 1927. Serial No. 175,403. 3 Claims. (Cl. 40—70.)

1. A holder of the character indicated, comprising a pair of casing forming plate portions each including an aperture registering with a corresponding aperture in the other, and a film and print holder pivotally supported therebetween and having a portion projecting beyond the same for finger engagement, said holder comprising a plurality of plates, each apertured and with the apertures registering with each other and adapted to register with the first-mentioned plate registering apertures, and spacing means between said holder forming plates for forming



a plurality of grooves therebetween each registering with one of the holder plate registering apertures for X-ray film and print reception, exposure and examination.

1,685,585. SAFETY LOCK FOR COUNTERBALANCING DEVICES. CHARLES P. GRIMES, Syracuse, N. Y., assignor to Pedwyn Balancer Corporation, Syracuse, N. Y., a Corporation of New York. Filed Jan. 6, 1927. Serial No. 159,284. 15 Claims. (Cl. 242—109.)



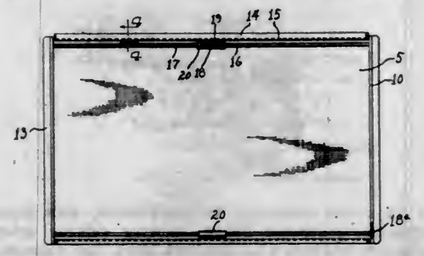
11. In a device of the class described, the combination of a winding drum, a spring coacting on the drum to wind it, a spring pressed lock for holding the drum from turning, the lock being normally in ineffective position, and means operated by the coil spring to hold the lock from actuation by its spring.

1,685,586. HAT PROTECTOR. GEORGE K. GUINZBURG, Chappaqua, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Filed Mar. 15, 1927. Serial No. 175,524. 1 Claim. (Cl. 2—187.)



A thin rubber hat protector of the character described, comprising a head element having two superimposed thin rubber discs integral with each other along their outer peripheries, the lower disc having a head opening and the upper disc being provided wtih a relatively small center opening, and a pocket element into which the two discs are capable of being folded through said center opening of the head element, comprising a disc shaped top and an inwardly tapering annular side wall, the outer periphery thereof being integral with the periphery of the disc shaped top and the inner periphery integrally connected to the wall of the small opening in the upper disc of said head element, said pocket element being of such size as to compactly contain the head element.

1,685,587. SCREEN FOR VEHICLE WINDOW FRAMES. HAROLD H. HAGER, Point Place, Ohio. Filed July 2, 1927. Serial No. 203,196. 2 Claims. (Cl. 156—14.)



1. In a screen for automobile windows having packing in the window-receiving grooves, a screen member, substantially L-shaped end members having one side thereof adapted to engage in the window receiving grooves and with the packing therein, the free edge portions of the other sides of the L-shaped end members being bent over the end edges of the screen member to secure the latter thereto, said other sides of the end members having apertures therein adjacent to the ends of the end members, rods having reduced outer ends received in said apertures, and releasable means to hold the rods in spaced position thereby to force the said other sides of the end members against the sides of the window frame.

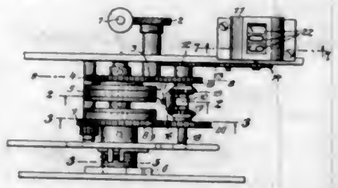
1,685,588. TABLE CUTLERY. CARL H. HEMMING, New Haven, Conn. Filed July 3, 1926. Serial No. 120,353. 3 Claims. (Cl. 30—9.)



1. The hereindescribed method of attaching cutlery blades having tangs to handles, which resides in forming a bore of relatively short length having closed sides and a bottom in the end of the handle to receive the tang, said bore having a portion of greater diameter than the tang and having lateral recesses opening thereinto, then in inserting the tang in the bore and enclosing the adjacent parts of the blade and handle in a mold, which latter has

bolster molding faces, and finally in introducing fusible metal in the mold to fill the spaces between the bore and tang and the recesses, and to simultaneously fill said bolster molding faces, thereby to connect the tang to the handle and to form said bolster without exposure of the part of the filler within the handle.

1,685,589. FARE INDICATOR. LEO KERN, Villingen in Baden, Germany, assignor to Kienzle Uhrenfabriken Aktiengesellschaft, Schwenningen A. Neckar, Germany, a Corporation of Germany. Filed Jan. 13, 1927, Serial No. 160,842, and in Germany Jan. 15, 1926. 2 Claims. (Cl. 235—30.)



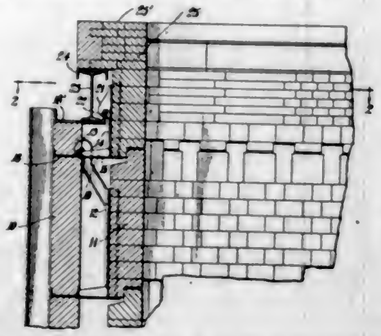
1. In a fare indicator, the combination, with driving mechanism controlled by the moving vehicle, driving mechanism controlled by the clock work, and registering mechanism including an operating member adapted to transmit movement to the registering mechanism in one direction and to run idle when operated in the opposite direction, and means intermediate said driving mechanisms and operating member for moving the same respectively in opposite directions.

1,685,590. CUTTER ATTACHMENT. FRED A. LEIGH, Chicago, Ill. Filed May 24, 1926. Serial No. 111,264. 2 Claims. (Cl. 30—20.)



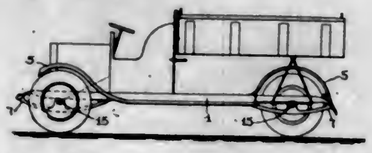
1. A cutter attachment comprising a metal guide bar, and means integrally formed on one end of said guide bar and provided with a plurality of grooves for removably receiving a knife with the blade of the knife seated in any one of said grooves at a predetermined distance from one side of the guide member.

1,685,591. WALL CONSTRUCTION. GEORGE ALLEN, Jr., New York, N. Y., and FREDRICK C. SIMPSON, West Somerville, Mass., assignors to George Allen & Son, a Firm consisting of Jane Allen, William Allen, and George Allen, Jr., New York, N. Y. Filed May 14, 1927. Serial No. 191,505. 5 Claims. (Cl. 72—101.)



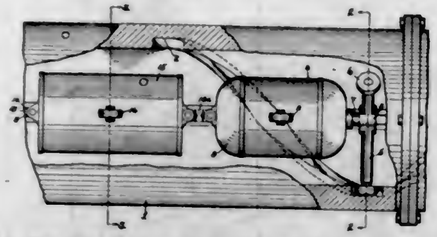
2. In a wall having opposed wall parts, one of said wall parts being elevated above and having a horizontal extension over the other of said wall parts, a hanging element for retaining said wall parts in spaced relation and supporting said elevated portion, and means on the other wall part for supporting the hanging element and said horizontal extension.

1,685,592. CHASSIS. THOMAS RAYMOND ARDEN, Forest Hills, N. Y., assignor to Julius Chein, New York, N. Y. Filed May 10, 1926. Serial No. 107,906. 4 Claims. (Cl. 46—48.)



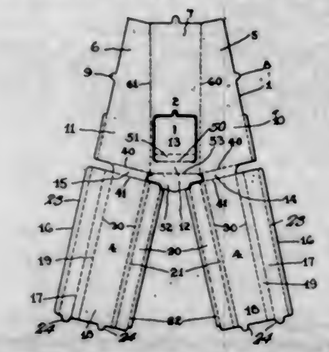
1. In a device of the character described, the combination of a U-shaped frame member, a pin bent inwardly from a flange of said frame, a spring having a finger extending therefrom adapted to lie betwen the base of said frame member and said pin and means to lock the spring to said frame.

1,685,593. MAIL-CARRIER MECHANISM. LAWRENCE AUBLE, Toledo, Ohio, assignor of one-third to Charlotte E. McCarthy and one-third to Karl F. Kapff, Toledo, Ohio. Filed July 11, 1927. Serial No. 204,825. 7 Claims. (Cl. 104—147.)



1. The combination of a spiral track, opposed longitudinal tracks, a rotary propeller having a part loosely mounted in said spiral track, motor means for rotating said propeller, and opposed means in fixed relation to said motor means and loosely disposed in said longitudinal tracks.

1,685,594. TOY BODY FORMED OF SHEET MATERIAL. ISADORE BERGER, Newark, N. J., assignor to Elizabeth H. Chein, New York, N. Y. Filed Feb. 8, 1927. Serial No. 166,628. 3 Claims. (Cl. 46—48.)



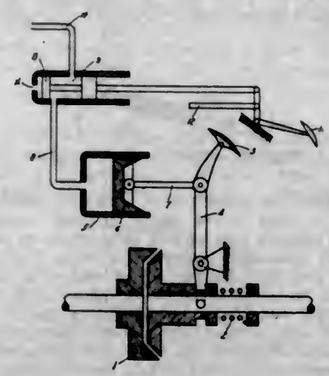
1. A toy body comprising a single blank of sheet material having a hood portion, a seat portion and a body portion, said body portion having side members with outwardly projecting panels, and an end section closing the end of each said panel and connecting said body portion to said seat portion.

1,685,595. COLLAR-BUTTON CLASP. ANTON BEIFUS, Newark, N. J. Filed Jan. 6, 1928. Serial No. 244,922. 2 Claims. (Cl. 24—64.)



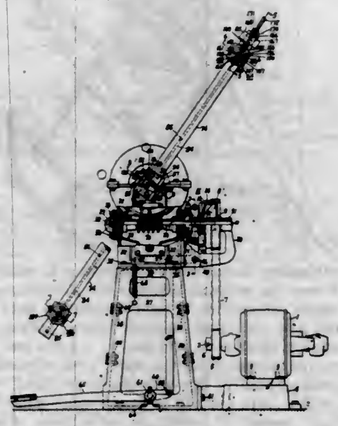
1. In a device of the character set forth, and in combination with a collar button having a flat shank whose edges are notched, of a plate having its edges formed with teeth and its corners provided with bendable finger extensions, and the teeth of the said plate designed for impinging engagement with the bow portion of a neck tie, and certain of the fingers designed to be bent over the plate against the impinged ends of the tie, a casing resting against the said bent fingers having an outer closure plate designed to be engaged by the remaining fingers of the first mentioned plate when the latter are bent over the casing and against the closure plate, a rod having an adherent resiliency which is centrally secured in the casing and which is bent upon itself to provide substantially rectangular portions, whose inner arms form spring jaws, stop elements carried by the closure plate for engaging the outer arms of said rectangular portions of the rod, the bow arms of the rods having their ends projected and extended through the ends of the casing and bent upon themselves to provide substantially U-shaped finger grips, and the closure plate having an opening therethrough opposite the jaw portions of the rod for the passage of a shank of a collar button therethrough.

1,685,596. MEANS OF DECLUTCHING. JOSEPH BETHENOD, Paris, France, assignor to Motor Industries, Inc., Chicago, Ill., a Corporation of Illinois. Filed Aug. 5, 1926, Serial No. 127,471, and in France Aug. 7, 1925. 1 Claim. (Cl. 192—0.01.)



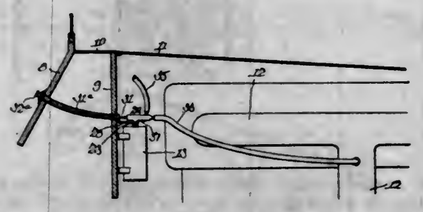
Automobile controlling mechanism including a clutch pedal, an accelerator, and an intake-manifold connection, in combination with a suction-operated device acting on the clutch pedal, and a valve for connecting said device to the intake-manifold connection and which is connected to the accelerator and which includes a cylinder and a double-piston valve in the cylinder, the space between the piston portions of said valve being in alinement with the intake-manifold connection and with the connection to said device when the accelerator is released, and with one of the piston portions of said valve arranged between the intake-manifold connection and the connection to said device when the accelerator is operated.

1,685,597. COIL-WINDING DEVICE. AXEL W. BJORKMAN, Brooklyn, N. Y., assignor to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 29, 1926. Serial No. 151,494. 14 Claims. (Cl. 140—92.2.)



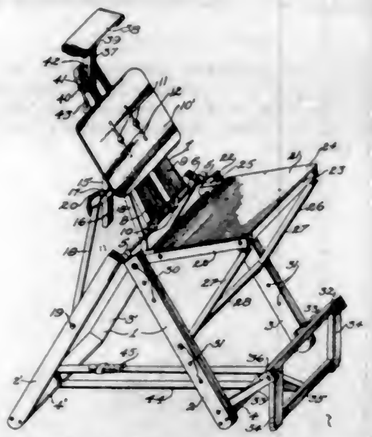
1. A coil-winding device comprising a winding bar, a wire clamp associated with said winding bar and arranged to grip the end of the wire to be wound, a winding block carried by said winding bar, and operating means, said operating means causing the winding bar to wind the wire upon the winding block.

1,685,598. AUXILIARY FUEL AND CLEANING DEVICE FOR INTERNAL-COMBUSTION ENGINES. WILLIAM DAVIS, Chicago, Ill. Filed Aug. 14, 1925. Serial No. 50,256. 5 Claims. (Cl. 123—25.)



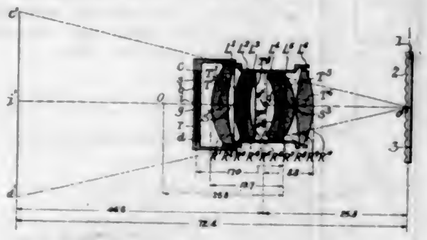
1. In a device of the class described, the combination with an automobile having the usual dash-board, instrument-board, and an engine having an intake manifold, of a multi-fluid container mounted on the dash-board and having a perforated pipe vertically mounted therein and extended above its top, a valve casing mounted for communication therewith on the top of said pipe and having a port in communication with said manifold and an opening to the atmosphere, a needle valve mounted in said casing for reciprocation and a connection leading from said valve through said dash-board and instrument-board for operating the valve.

1,685,599. COLLAPSIBLE DENTAL CHAIR. JOHN P. FLETCHER, U. S. Army, Carlisle, Pa. Filed Aug. 13, 1927. Serial No. 212,824. 5 Claims. (Cl. 155—25.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



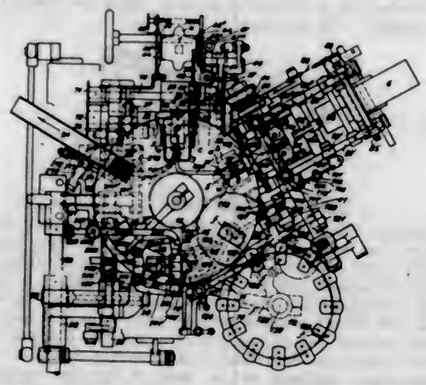
1. A collapsible dental chair comprising in combination front and rear leg sections, a hinge rod pivotally connecting the upper extremities of said sections, a back hinged to said rod and including laterally spaced leaves, a back rest adjustably carried by said leaves, a head rest adjustably supported intermediate the upper ends of said leaves, an extension pivoted to the back below the head rest and between said leaves, a brace in engagement with the rear leg section, means to effect a detachable connection between said brace and said pivoted extension, a seat pivoted to the upper portion of the front leg section, a supporting brace hingedly connected to the seat and detachably engaged with said front leg section.

1,685,600. OPTICAL SYSTEM FOR COLOR PROCESSES. CHARLES W. FREDERICK, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 20, 1927. Serial No. 207,213. 17 Claims. (Cl. 95—2.)



1. A photographic optical system for use in the formation, in a photographic layer having associated therewith numerous microscopic image-forming elements, of minute photographic images for projection through a projection system comprising a projection objective and a polychromatic screen, the virtual image of which occupies an ascertained position with respect to the rear focal plane of such objective, said photographic optical system comprising a photographic objective of different focal length from the projection objective, and a polychromatic screen similar to the first-named screen and positioned in front of the photographic objective at that point which is conjugate to a point distant from the rear focal plane of he objective by the distance which the said virtual image in the projection system is distant from the rear focal plane of the projection objective.

1,685,601. MACHINE FOR WRAPPING UP RAZOR BLADES. PAUL GANGLER, Esslingen, Germany, assignor to the Firm Fr. Hesser, Maschinenfabrik-Aktiengesellschaft, Stuttgart-Cannstatt, Germany. Filed Nov. 23, 1926, Serial No. 150,295, and in Germany Dec. 30, 1925. 14 Claims. (Cl. 93—7.)

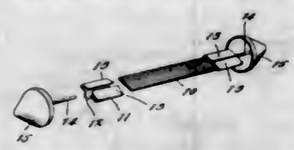


1. In a machine for wrapping up razor blades in combination, a feeding device, means for placing an outer wrapper upon said feeding device, means for placing an inner wrapper upon said outer wrapper, means for depositing a razor blade upon said inner and outer wrappers, means for closing said wrappers, and means for taking the wrapped up blade off said feeding device.

1,685,602. MODE OF PRODUCING WROUGHT IRON WITH INCREASED TENSILE PROPERTIES. GEORG GUDE GEDDA, Surahammer, Sweden. Filed Dec. 9, 1925, Serial No. 74,408, and in Sweden July 17, 1925. 2 Claims. (Cl. 75—45.)

2. The process of manufacturing wrought iron consisting in adding a predetermined amount of nickel to ordinary pig iron and then heating the mass and so puddling the same as to produce a wrought iron of increased tensile strength and elastic limit without decreasing its welding and contraction capacities.

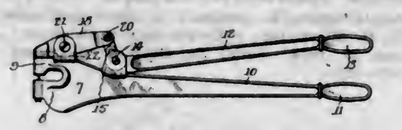
1,685,603. GRID LEAK. EDWARD V. GLUCK, Woodhaven, N. Y. Filed Nov. 12, 1925, Serial No. 68,673. Renewed Aug. 11, 1928. 2 Claims. (Cl. 201—64.)



1. A grid leak comprising a resistance element in the form of a strip, hollow headed terminal members disposed at opposite ends of said strip, stems on said members and extending beneath said strip, binding clips clamped over the opposite end of said strip and stems serving to maintain the stems in contact with the strip, and a rigid body formed of insulating cement moulded over said strip between said terminal heads, the insulating material extending ino the hollow heads of the terminal members and being held in service thereby.

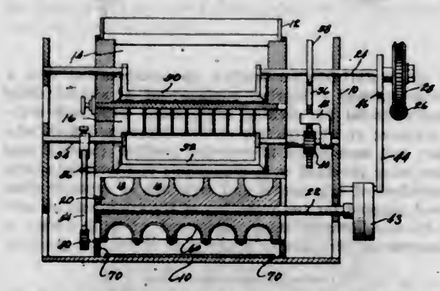
1,685,604. HAND PUNCH AND THE LIKE. JOHN JENSEN, Rockford, Ill., assignor to Whitney Metal Tool Company, Rockford, Ill., a Corporation of Illinois. Filed Nov. 27, 1925. Serial No. 71,518. 1 Claim. (Cl. 164—120.)

A tool of the class described comprising an arm having an enlarged bifurcated head at one end, a working tool mounted in one of said bifurcations for sliding movement toward and from the other of said bifurcations, a pair of supports rigid with and spaced longitudinally along one side of said head, a working lever pivoted on the forward one of said supports and having one end engaging said tool for actuation thereof, with the opposite end substantially overlying the other support, a bell crank



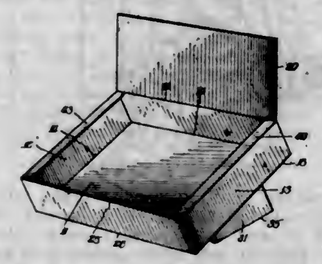
lever pivoted on the rear one of said supports, and a link pivotally connecting the rear end of said working lever and the forward end of said bell crank lever effecting a toggle joint therebetween, are pivotal points of said joint being substantially alined at the end of the working stroke in a line perpendicular to a line passing through the pivotal points on the working lever.

1,685,605. CANDY-MAKING MACHINE. JAMES N. KALKANIS, Detroit, Mich. Filed Feb. 18, 1926. Serial No. 88,988. 5 Claims. (Cl. 107—8.)



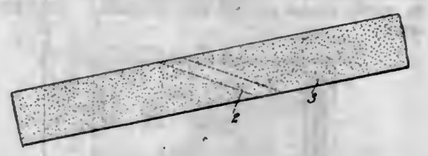
1. In a machine of the class described, a frame, a mixing chamber having a discharge opening, a rotatably supported mold carrier having a mold adapted to be brought into position to receive the discharge of the mixing chamber during the rotation of the carrier, means for rotating said mold carrier, a cutter operatively supported upon the frame in proximity to but exteriorly of the mold carrier adapted to be swung through the mold between the surface thereof and the product therein to loosen the molded product therefrom, and means coupling the cutter with the mold carrier for operation in coordination therewith.

1,685,606. DISPLAY BOX. SAMUEL N. LEOPOLD, Chicago, Ill., assignor to Rose Display Box Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 1, 1926. Serial No. 98,967. 4 Claims. (Cl. 206—44.)



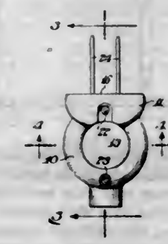
1. A display box or the like, comprising a body portion having a bottom, sides and ends, an intermediate portion, integrally connected, to one end of the bottom and extending loosely up inside the adjacent end of the box, a cover connected to said intermediate portion, and inturned portions upon the upper edges of the sides engaging the intermediate portion to hold it in contact with the adjacent end of the box.

1,685,607. BINDING. MAX LEVINE, Brooklyn, N. Y. Filed Nov. 28, 1927. Serial No. 235,358. 1 Claim. (Cl. 28—1.)



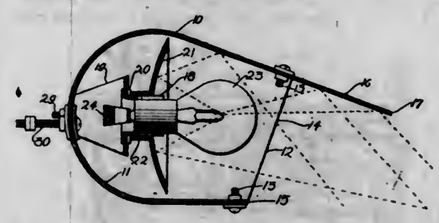
A binding comprising strips of fabric having the threads of the fabric on the bias, said strips joined end to end by interweaving to form long continuous binding tapes and coatings covering one side of the fabric base.

1,685,608. ELECTRIC ATTACHMENT PLUG. GEORGE LIPSCHUTZ, Philadelphia, Pa. Filed May 28, 1927. Serial No. 195,092. 4 Claims. (Cl. 173—361.)



1. An attachment plug comprising a pair of complementally formed main body members, said members being each provided with laterally spaced grooves and an enlarged finger receiving opening between said grooves, and means for securing said body members together with said grooves and opening of one of said members in registry with the corresponding grooves and opening of the other of said members.

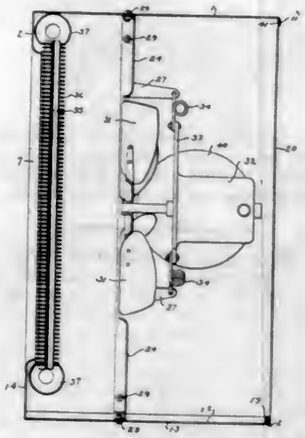
1,685,609. LIGHT-PROJECTING DEVICE. ELMER P. MCCLURE, La Grange, Ill. Filed Feb. 23, 1926. Serial No. 89,848. 1 Claim. (Cl. 240—41.)



In a device of the class described, a casing formed from a unitary sheet of material bent to that the edges thereof project in substantially the same direction, side walls on said casing to complete a chamber therein, a holder for a plurality of lamps entirely within said casing, and an adjustable reflector for each of said lamps, the lower edge of said casing terminating substantially in a plane including the extremities of said lamps, and the upper portion of said casing being inclined down-

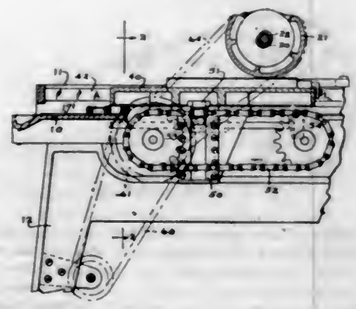
wardly in the form of a visor and extending substantially to a horizontal plane including the axes of said lamps, said casing permitting both direct and reflected rays to emanate therefrom.

1,685,610. HEATING AND VENTILATING APPARATUS. CLARK T. MORSE, Detroit, Mich., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 28, 1927. Serial No. 171,706. 7 Claims. (Cl. 257—137,)



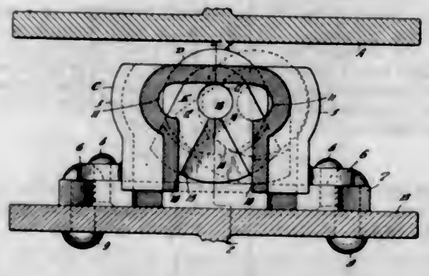
3. In combination, a cabinet having integral top and side sections and radiator guard flanges, a radiator supported by and connecting said side sections, a detachable bottom section connecting said side sections having a radiator guard completing the radiator opening between the guards, a slidable cover connecting the rear edges of said side sections, a partition interposed between the walls of said cabinet having an opening therein, a fan suspended in said opening and a radiator located behind said guard flanges with its headers concealed thereby.

1,685,611. PRINTING PRESS. LAWRENCE H. MORSE, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Mar. 9, 1925, Serial No. 14,013. Divided and this application filed May 6, 1926. Serial No. 107,048. 12 Claims. (Cl. 184—5.)



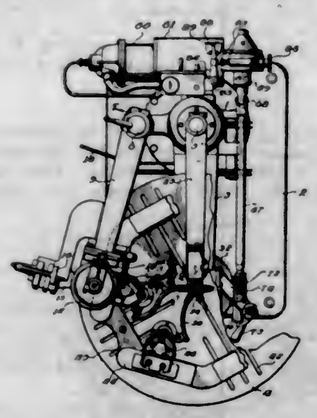
1. In a printing press, the combination of a substantially horizontal trackway, a reciprocating member mounted thereon, an oil carrier carried by the reciprocating member, an oil receptacle into which the oil carrier dips at each cycle of operation of the reciprocating member, said oil carrier being adapted to convey oil to the trackway supporting said reciprocating member.

1,685,612. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Aug. 29, 1924. Serial No. 734,834. 7 Claims. (Cl. 308—226.)



6. In an anti-friction bearing, the combination with a retainer having a bearing surface; of a self-centering rocker mounted for rocking engagement with said bearing surface; an anti-friction element connected with said rocker, and maintained in centered position thereby, said rocker being provided with trunnions; and bearing means independent of said rocker and arranged at opposite sides thereof adapted for the reception of the trunnions on said anti-friction element upon movement of said rocker a predetermined distance to either side of central position.

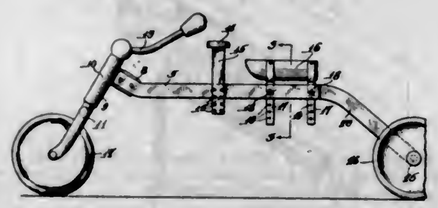
1,685,613. WOODWORKING MACHINE. OSCAR ONSRUD, Chicago, Ill., assignor to Onsrud Machine Works, Chicago, Ill., a Corporation of Illinois. Filed Nov. 12, 1926. Serial No. 147,917. 10 Claims. (Cl. 144—145.)



1. A wood shaping machine comprising a base, a horizontal work support table mounted on the base to rotate on a fixed axis, a rotary cutter mounted on the base and

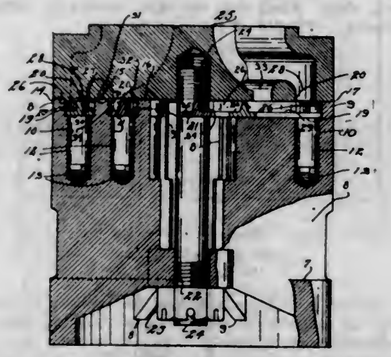
supported in cooperative relation with the table, and a constant speed variable torque transmission mounted on the base for transmitting driving power for rotating the table and positively maintaining a predetermined rate of speed at which the work is fed to the cutter.

1,685,614. KICK BIKE. ROBERT A. PEACOCK, Delaware City, Del. Filed June 18, 1926. Serial No. 116,794. 8 Claims. (Cl. 208—165.)



1. A kick bike comprising a steering wheel and steering post, a central handle bar connected therewith extending to the rear of the steering post, a frame, rear wheels upon the frame and a knee rest toward the rear of the frame but ahead of the rear wheels.

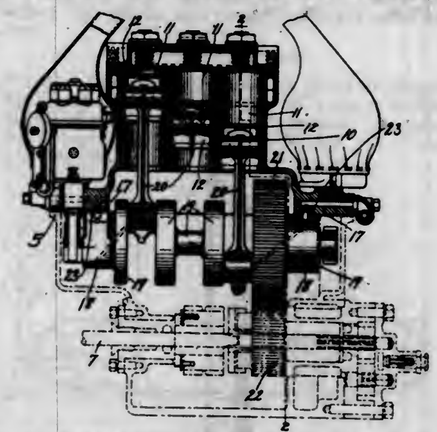
1,685,616. WARPLESS VALVE PLATE. DENT SANDFORD, Toledo, Ohio. Filed May 26, 1923. Serial No. 641,561. 3 Claims. (Cl. 251—119.)



1. A first-valve member embodying a pair of concentric seats disposed in a common radial plane, said seats having an endless circular opening therebetween with opposing side walls extending parallel to the opening axis and the common axis of said seats, a second valve member, and a ring closure plate for the opening movable toward the seats and housed by the second valve member, said plate having a pair of endless seats, and having a tongue from one side and outward from the plane of the plate to protrude between said seats of the first valve member for guiding the plate toward and from the seats.

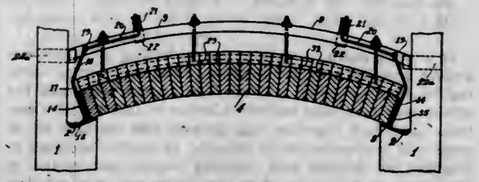
1,685,616. AIR-COMPRESSOR UNIT. AUGUST B. SCHLESINGER, Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 18, 1927. Serial No. 169,194. 5 Claims. (Cl. 230—38.)

1. In an air compressor, the combination of cylinders, an attaching base, pistons, a crank shaft to which the pistons are connected, and bearings supporting the crank shaft and secured to the base, said base being adjustable with respect



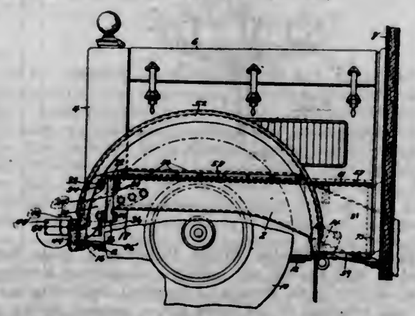
to the bearings whereby to simultaneously vary the clearance between the pistons and cylinders when the former are in their uppermost position.

1,685,617. SELF-SUSTAINING FURNACE ARCH. ENOCH P. STEVENS, Chicago, Ill.; Mary Ann Stevens executrix of said Enoch P. Stevens, deceased. Filed Mar. 4, 1922. Serial No. 541,062. 14 Claims. (Cl. 110—99.)



1. A furnace roof including in combination a supporting member, a course of bricks suspended therefrom, means for supporting said member, and yielding abutment means for the bricks, said abutment means also being carried by said member.

1,685,618. VEHICLE BUMPER AND FENDER AND MOUNTING MEANS THEREFOR. HUBERT WALKER, Royal Oak, and FRANK A. WHITTEN, Detroit, Mich., assignors to American Car and Foundry Motors Company, New York, N. Y., a Corporation of Delaware. Original application filed July 20, 1927, Serial No. 207,147. Divided and this application filed Jan. 26, 1928. Serial No. 249,590. 14 Claims. (Cl. 293—55.)



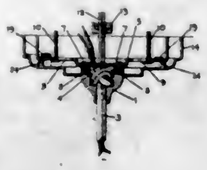
14. The combination with a vehicle chassis and a bumper channel supported thereby, of fenders and fender aprons secured to the chassis and to the bumper channel.

1,685,619. SAND PUMP. RALPH B. WELSH, Burkburnett, Tex. Filed Apr. 23, 1927. Serial No. 186,022. 1 Claim. (Cl. 166—19.)



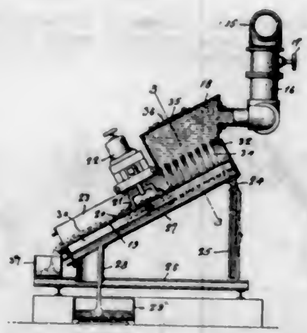
In a sand pump, a working barrel having an upper end section provided with a corrugated head and central opening to admit a cable, a lower end section arranged for attachment to a sand bottom, a series of intermediate sections so joined together and to said end sections as to permit of incorporation or removal of similar sections to lengthen or shorten said working barrel, and means to permit access to be gained to the interior of said working barrel from the side thereof.

1,685,620. ELECTRIC-LIGHTING FIXTURE. ERNEST CANTELO WHITE, New York, N. Y., assignor of one-half to R. Fenton Fisher, Philadelphia, Pa. Filed Nov. 6, 1926. Serial No. 146,730. 4 Claims. (Cl. 240—85.)



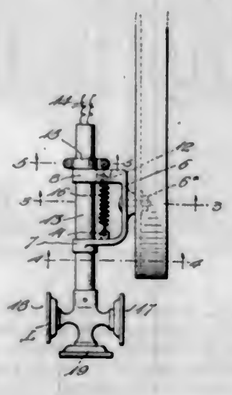
1. An electric lighting fixture including a cross bar adapted to bear against the ceiling, a supporting member for the electric cable formed of moulded insulating material and attached to the cross bar, a canopy having a central opening to accommodate the supporting member and spring clips carried by the canopy and adapted to engage the cross bar for supporting the canopy.

1,685,621. METHOD AND APPARATUS FOR SCREENING FLUIDS. FRANK L. ALLEN, Montclair, N. J. Filed Nov. 2, 1927. Serial No. 230,519. 6 Claims. (Cl. 210—196.)



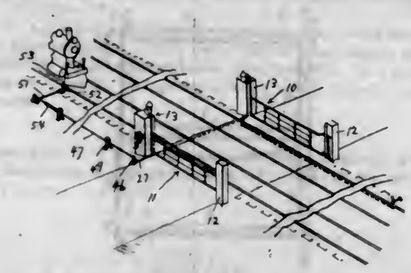
2. The method of preventing screen obstruction by withheld bagacillo on the screen of raw sugar juices, which comprises simultaneously directing the juices under pressure and in numerous jets against a large area of the screen and rapidly vibrating the latter in inclined position.

1,685,622. VEHICLE LIGHT. JAMES S. ANDERSON, Ames, Nebr. Filed Mar. 19, 1928. Serial No. 262,832. 2 Claims. (Cl. 240—7.1.)



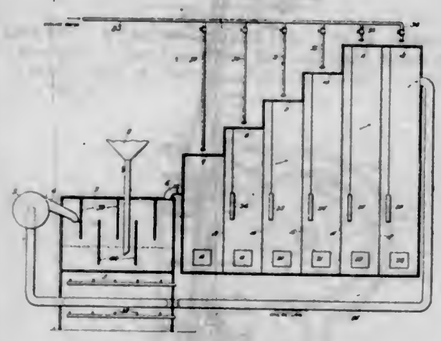
1. In a vehicle light, a bracket and means for attaching it to a vehicle, said bracket having laterally projecting horizontally spaced arms provided with horizontally alined bearing openings, one of said arms being provided with a spring anchor and the other being formed with an opening in addition to its bearing opening, a horizontally elongated light carrier slidable in said bearing openings, a coiled tension spring passing through said additional opening and anchored at one end to said spring anchor, and a projection on said carrier to which the other end of said spring is connected, said spring serving to yieldably hold said carrier in a position at which said projection abuts said other arm.

1,685,623. HIGHWAY-CROSSING GATE. JOHN ARTHUR ANDERSON, Port Arthur, Ontario, Canada. Filed Sept. 14, 1927. Serial No. 219,438. 5 Claims. (Cl. 246—293.)



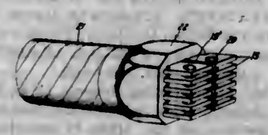
1. In a highway crossing gate of the class described, a gravity lowered gate, a retention means cooperable with the gate to hold the gate in an elevated position, and train actuated trip mechanism cooperable with said retention means.

1,685,624. PROCESS OF PURIFICATION. CHESTER E. ANDREWS, Pittsburgh, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 27, 1918. Serial No. 219,447. 10 Claims. (Cl. 260—123.)



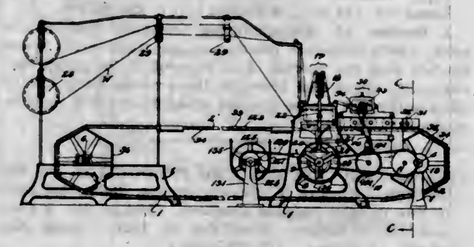
1. In the manufacture of phthalic anhydrid, the step of separating phthalic anhydrid from naphthalene by vaporizing from a mixture containing such two materials, a plurality of normally solid substances into a flowing current of an inert gas, while heating such mixture to a temperature of about 200° C., and successively cooling the resulting gas-vapor mixture to separately crystallize therefrom the vaporous materials.

1,685,625. CABLE TERMINAL. DAVID BASCH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 31, 1928. Serial No. 250,903. 8 Claims. (Cl. 173—353.)



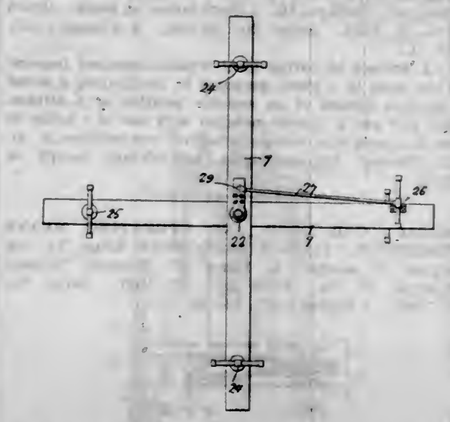
6. A cable connector comprising a multiplicity of copper wires divided into a plurality of groups, a copper sleeve sweated around each group of wires, a metallic member adapted to separate and space said groups, a plurality of copper plates and a member of cast copper surrounding and joining said sleeves, spacing member and plates.

1,685,626. MACHINE FOR USE IN MAKING BOXES. SERAPHINE F. BAUWENS, Chicago, Ill., assignor to Wirebound Patents Company, a Corporation of Maine. Filed Aug. 9, 1923. Serial No. 656,555. 34 Claims. (Cl. 140—93.)



1. A machine for use in making boxes comprising, in combination, means to feed box parts; means to apply binding wire to the box parts; mechanism to supply said wire with fastening means; and a chain having blocks thereon to move said mechanism with the work.

1,685,627. ROUNDABOUT. ARTHUR W. BRYNGELSON, Augusta, Ga. Filed June 29, 1926. Serial No. 119,347. 1 Claim. (Cl. 272—33.)



In a roundabout of the class described, a vertical stationary supporting post, a pair of cross seat boards mounted for rotation upon the post below the upper end thereof, a ratchet unit including a disc keyed on the upper end of the post, ratchet teeth formed in the outer peripheral edge of said disc, bosses formed on the opposite sides of the disc, a pair of spaced metallic plates disposed on opposite sides of the disc, the inner ends of said plates being formed with openings to accommodate the respective bosses, said plates being rotatable around the bosses, a spring pressed pawl arranged between the plates for normal engagement with the ratchet teeth of said disc, a vertical pin extending between the outer ends of the plates, posts carried by the outer end of said cross board, and means upon the outer end of one of the cross boards for actuating said plates to effect the rotation of the cross boards, said means including a vertical lever loosely piv-

oted at its lower end on said board, and a rod loosely connected at one end to the lever adjacent its pivoted end, the other end of said rod being loosely connected to the pin between the outer ends of the plates.

1,685,628. PROCESS OF MANUFACTURING COMPLEX HYDROFLUORIC SALT. MAX BUCHNER, Hanover-Kleefeld, Germany, assignor to Albert Meyerhofer, Zurich, Switzerland. Original application filed July 22, 1924, Serial No. 727,545, and in Germany July 30, 1923. Divided and this application filed Jan. 28, 1927. Serial No. 164,371. 8 Claims. (Cl. 23—88.)

1. Process of manufacturing complex hydrofluoric salts, which comprises reacting on an alkali earth metal fluoride with the fluoride of an element of the group consisting of silicon and boron in the presence of a salt of the alkali metal whose complex hydrofluoric salt shall be produced.

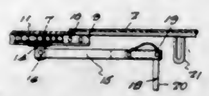
1,685,629. PROCESS FOR THE PRODUCTION OF NITRITES. EUGENE T. DRAKE, Omaha, Nebr., assignor to The Cudahy Packing Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 8, 1926. Serial No. 86,963. 4 Claims. (Cl. 23—104.)

1. A bacteriological process for the conversion of nitrates into nitrites which comprises inoculating a series of cultures formed of an aqueous solution of sodium nitrate, sugar, common salt and amino nitrogen, with selected groups of non-putrefactive, non-pathogenic, nitrate-reducing, non-proteolytic, motil and non-motil, salt-tolerant bacilli having the property of converting nitrates into nitrites.

1,685,630. PROCESS OF CURING MEATS. EUGENE T. DRAKE, Omaha, Nebr., assignor to The Cudahy Packing Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 8, 1926. Serial No. 86,964. 4 Claims. (Cl. 99—1.)

1. A process of curing meat which comprises immersing the meat in a pickle prepared by inoculating a series of cultures formed of an aqueous solution of a nitrate, sugar, salt and a protein material with one of a group of bacteria comprising non-putrefactive, non-pathogenic, nitrate-reducing, non-proteolytic, salt-tolerant bacilli or spirilli.

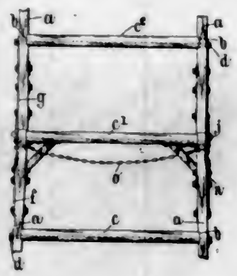
1,685,631. CAR DOOR AND OPERATING MEANS THEREFOR. FLOYD G. EVANS, Baton Rouge, La., assignor of one-half to Harry W. Mitchell, Webster Springs, W. Va. Filed Dec. 22, 1927. Serial No. 241,995. 2 Claims. (Cl. 74—33.)



1. In a structure of the class specified wherein the same embodies a ratchet wheel equipped with a rotating stud, a convertible hand crank for rotating said wheel, said hand crank comprising a lever connected to said stud, and a handle pivotally connected to the outer end of the lever, said handle being formed with a slot to permit passage of a staple therethrough, whereby to permit the handle to function additionally as a hasp.

1,685,632. COMBINED STEP AND WALL OR EXTENSION LADDER. CECIL FEATHERSTONE HAMMOND and WILLIAM SHACKLETON, London, England. Filed Dec. 4, 1925, Serial No. 73,210, and in Great Britain Dec. 11, 1924. 2 Claims. (Cl. 228—23.)

1. In a combination ladder, ladder sections, hinges connecting together the ladder sections and comprising disc-like parts pivoted flatly together, locking bolts movable transversely to the disc-like parts, leaf springs carrying



the said bolts, and guide plates having slots therein in which the said springs are movable through a limited distance.

1,685,633. AUTOMATIC TORCH LIGHTER. FREDERICK J. HEYBACH, Savannah, Ga. Filed Oct. 15, 1926. Serial No. 141,823. 8 Claims. (Cl. 158—27.4.)



1. In a metal working torch, a flame nozzle, a lighter adjacent said nozzle, means for operating said lighter to move it to or from said nozzle, two pipes conveying, respectively, an inflammable and a non-inflammable gas to said nozzle, valves in said pipes, manually actuable controlling means for said valves, the valve controlling the non-inflammable gas being responsive to control by said lighter operating means when open for closing said valve before igniting the inflammable gas at said torch.

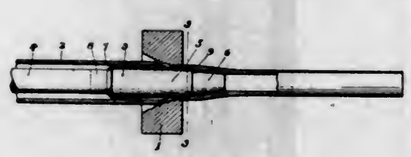
1,685,634. PURIFICATION OF BENZOIC ACID AND ITS DERIVATIVES. ALPHONS O. JAEGER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Oct. 19, 1927. Serial No. 227,358. 4 Claims. (Cl. 260—108.)

1. A method of separating benzoic acids from the corresponding phthalic acids, which comprises subjecting the aqueous dispersion of the acids to continuous leaching with a current of organic solvents for benzoic acid, separating the solvent from the water and removing benzoic acids from the solvent solution and phthalic acids from the water solution.

1,685,635. CATALYTIC OXIDATION OF ANTHRACENE. ALPHONS O. JAEGER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 242,297. 14 Claims. (Cl. 260—57.)

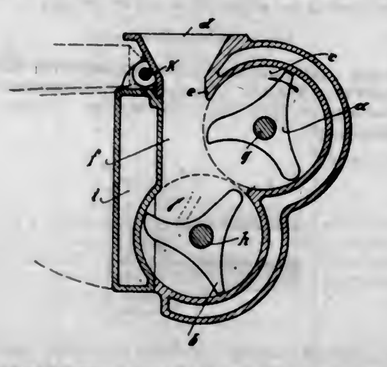
1. A method of oxidizing anthracene containing material to anthraquinone, which comprises causing vapors of anthracene containing material admixed with an oxidizing gas to react in the presence of a catalyst containing a zeolite.

1,685,636. TUBE-DRAWING PLUG. JOSEPH KEMP, Baltimore, Md. Filed Jan. 20, 1928. Serial No. 248,253. 5 Claims. (Cl. 205—7.)



1. A tube drawing plug formed of metallic material and including a tapered body portion and a gripping nose extended from the forward end of said body portion, said gripping nose having its forward end possessing a malleable characteristic, the remaining portion of said nose and said body portion being hard.

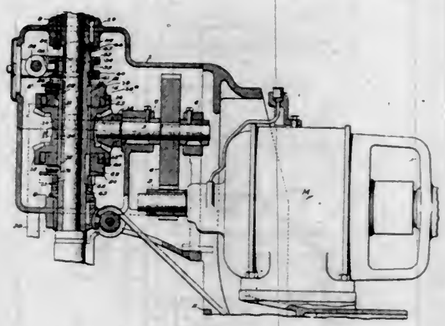
1,685,637. KNEADING MACHINE. FRITZ KEMPTER, Stuttgart, Germany. Filed May 21, 1926, Serial No. 110,715, and in Germany June 25, 1925. 1 Claim. (Cl. 18—2.)



Kneading machine comprising a trough, a kneader mounted for rotation in said trough, a charging hopper adapted to supply material to said kneader, a partition extending from the inner end of said hopper to a point intermediate between the highest point attained by said kneader and its axis of rotation, and a second kneader so arranged below said kneader that the line connecting the axes of both kneaders extends substantially in parallel to the tangent at the end of said partition.

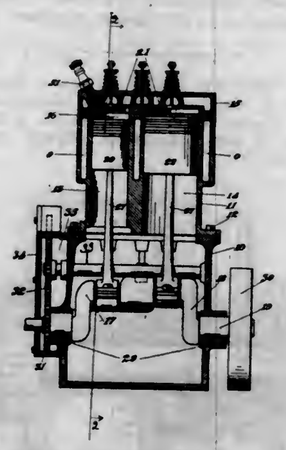
1,685,638. CONDENSED CLUTCH FOR REVERSING MECHANISMS. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 6, 1925. Serial No. 805. 6 Claims. (Cl. 10—137.)

3. A reversing mechanism combining a housing, a spindle-driving sleeve journaled in upper and lower vertically disposed bearings carried by said housing; a horizontal drive-shaft; a pinion on said drive-shaft; two bevel-gears rotatably journaled on said sleeve and maintained permanently in mesh with opposite sides of said pinion, whereby they are rotated reversely; a friction clutch associated with each of said bevel-gears; a collar slidably mounted on said sleeve between one of said friction clutches



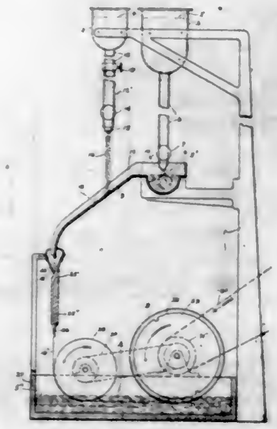
and the upper sleeve bearing; a detent cooperating with said collar to hold it impositively against movement on said sleeve; an operative connection between said collar and each of said friction clutches; and means to overcome the action of said detent and to shift said collar in opposite directions on said sleeve selectively to cause said clutches to lock said gears to said sleeve.

1,685,639. INTERNAL-COMBUSTION ENGINE. LEO LAGALI, El Reno, Okla. Filed Dec. 1, 1922, Serial No. 604,385. Renewed Aug. 15, 1928. 8 Claims. (Cl. 123—1.)



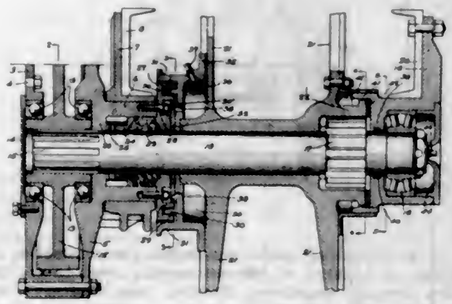
1. In an internal combustion engine, the combination of a pair of cylinders of different capacity, each having its own separate combustion chamber, each chamber being provided with a fuel inlet port, said chambers being connected by a constantly open passage, pistons operating in said cylinders, a crank shaft having crank arms separately connected with said pistons, and means for igniting the charge in the combustion chamber of the smaller of said cylinders, the length of said passage and relative arrangement of said crank arms being such that, when operating at normal speed, both arms will move past top dead center prior to the ignition of the charge in the combustion chamber of the larger cylinder.

1,685,640. METHOD AND APPARATUS FOR MAKING ARTIFICIAL SILK. JAMES M. LEAVER, Oakland, Calif., assignor to The Pacific Lumber Company, San Francisco, Calif., a Corporation of Maine. Filed Sept. 3, 1924. Serial No. 735,625. 32 Claims. (Cl. 18—8.)



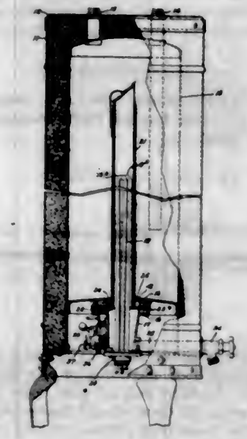
1. The method of forming thread filaments from viscous solutions, which consists in discharging the material downward in a plurality of streams, permitting the streams to fall through the air to reduce them in diameter to a fraction of their starting diameter, and receiving the falling streams on a moving sheet of setting solution having a surface speed substantially synchronous with that of the falling streams at their point of contact therewith.

1,685,641. VEHICLE DRIVE. HOLMAN HARRY LINN, Morris, N. Y., assignor to The Linn Manufacturing Corporation, Morris, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 266,822. 16 Claims. (Cl. 74—99.)



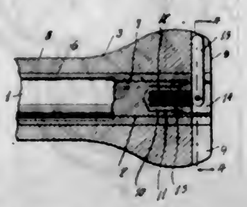
1. In a drive for tractors and the like having in its organization a differential, a driving axle, and gear connections, a front supported housing for the differential, gear casings rigidly joined to said housing at either side thereof, and trunnions carried by the gear casings and affording together with the front supported end of the differential a three-point suspension for the unit.

1,685,642. WATER HEATER. FRANCIS H. MCCORMICK, Glen Ellyn, Ill., assignor to Edison Electric Appliance Company, Inc., Chicago, Ill., a Corporation of New York. Filed Dec. 13, 1926. Serial No. 154,375. 14 Claims. (Cl. 219—39.)



1. A water heater comprising a tank, heating means for said tank, and temperature responsive means for controlling said heating means so as to heat a relatively small quantity of water in the top of the tank to a predetermined high temperature and thereafter heat the water in the lower regions of said tank without substantial increase in the temperature of the water at the top of the tank.

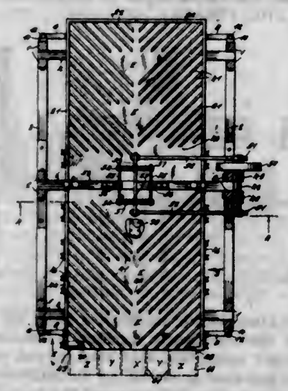
1,685,643. HANDLE-SECURING MEANS FOR SHANK-FORMING TOOLS. JOHN MICALI, Lawrence, Mass. Filed Aug. 18, 1927. Serial No. 213,838. 1 Claim. (Cl. 306—38.)



A device of the character described, comprising a spindle having a threaded terminal, a handle threaded onto said terminal and adjustable thereon, said handle having grooves in its outer end, a threaded member engaging in a threaded recess in the end of the spindle, and having a longitudinal opening therein, an arm pivotally engaging the threaded member to engage in said grooves to hold the handle in adjusted positions, and a spring in the opening in the threaded member and engaging the arm to hold it in adjusted positions.

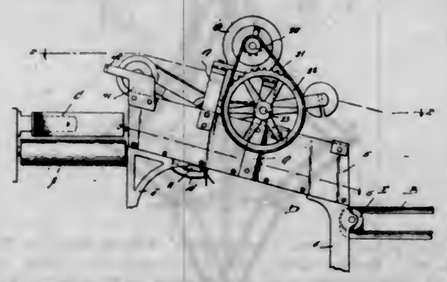
1,685,644. ORE-CONCENTRATING DEVICE. MERLE M. NEWTON, Cragmor, Colo. Filed July 1, 1927. Serial No. 202,848. 5 Claims. (Cl. 209—441.)

1. A concentrating device comprising an elongated, substantially rectangular table having its central portion formed from two rectangular sections whose adjacent edges are secured together by means of a strip of flexible material, means for supporting the adjacent edges, said supporting means being movable so as to vary the position of the adjacent edges of the table, a plurality of parallel ribs extending diagonally across the upper surface of each



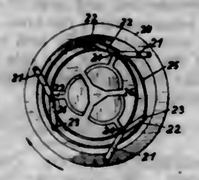
section, said ribs comprising two groups oppositely inclined, means for reciprocating the table transversely and means for permitting materials to escape over the sides during operation.

1,685,645. FRUIT-BRANDING MACHINE. ELWIN A. ROBBINS, Nashua, N. H. Filed Oct. 26, 1926. Serial No. 144,334. 2 Claims. (Cl. 101—40.)



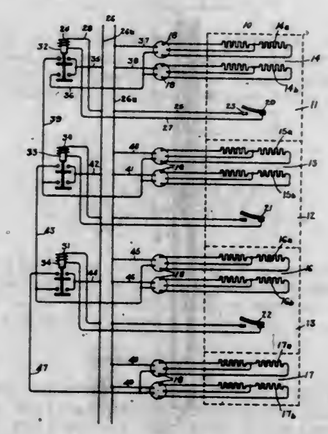
1. In a machine for marking fruit, a die, and pivotally mounted means comprising an endless belt gravitally engaging said fruit for rolling it across the die, and a resilient tensioning means associated with the belt to accommodate the belt to different sized fruit.

1,685,646. OPTICAL SYSTEM. RICHARD RUHNAU, Essen-Ruhr, Germany, assignor of one-half to Max Stern, Essen-Ruhr, Germany. Filed Nov. 28, 1925, Serial No. 72,034, and in Germany Jan. 12, 1925. 5 Claims. (Cl. 88—16.8.)



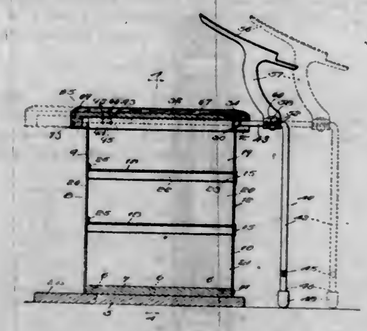
1. Optical system for moving picture projection comprising a plurality of segments of a circular lens and means for causing each segment to travel in a straight line with a film picture and to simultaneously rotate about its optical centre point.

1,685,647. METHOD AND MEANS FOR REGULATING TEMPERATURE. JACOB L. SHROYER, Oak Park, Ill., assignor to Edison Electric Appliance Company, Inc., Chicago, Ill., a Corporation of New York. Filed July 2, 1924. Serial No. 723,837. 12 Claims. (Cl. 219—20.)



7. The combination with a multiple compartment electric oven provided with a plurality of heating units distributed throughout the compartments, some of said units radiating heat into two adjacent compartments, a plurality of switching devices for controlling the circuits of said heating units, said switching devices being connected and arranged so that said second named units are controlled jointly by a plurality of switches, and temperature responsive devices in said compartments for controlling said switching devices.

1,685,648. SHOE-SHINING STAND. JOSEPH SILVERMAN, Chicago, Ill. Filed Apr. 4, 1927. Serial No. 180,700. 9 Claims. (Cl. 15—265.)

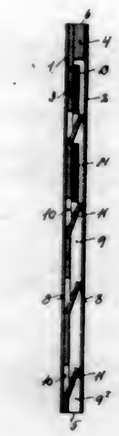


1. In a device of the class described, a base, a box mounted upon said base, tubular margins at the top of the box, and a foot rest having a support engaging telescopically in said margins for extension and retraction into different positions and for application to and removal from said box.

1,685,649. WRAPPER FOR COINS AND THE LIKE. MINNA BERG SONNE, Nexoe, Denmark. Filed June 17, 1927, Serial No. 199,597, and in Denmark June 17, 1926. 1 Claim. (Cl. 229—92.9.)

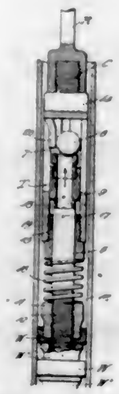
In wrappers for coins and the like, the combination of two outer covering sheets of any suitable material, with

two inner sheets, in one of which is made an incision, open at one end and closed at the other, while the second inner sheet is cut out to form a number of laps projecting into



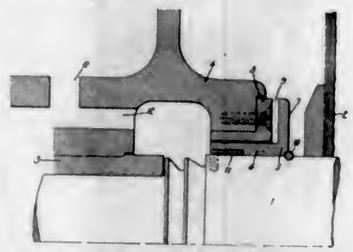
the said incision to divide the same into compartments for coins retained by the said laps, the said outer and inner sheets being mutually connected to form a card, substantially as set forth.

1,685,650. PUMP VALVE. JOHN M. STREICH, Clarendon, Pa. Filed Apr. 14, 1928. Serial No. 270,113. 7 Claims. (Cl. 103—221.)



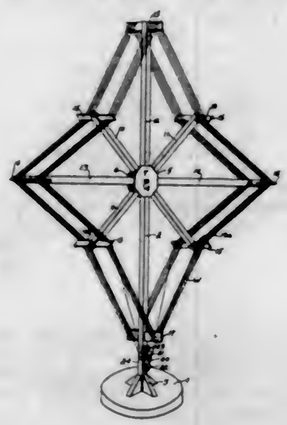
1. In a pump valve, a tubular body having a valve seat at its upper end, a valve cage whose lower portion slidably surrounds the upper portion of said body, means for limiting the upward sliding of said cage on said body, spring means acting on said cage and reacting on said body for upwardly forcing the cage to the extent permitted by said limiting means, and means carried by said cage for laterally forcing said valve from said seat upon downward forcing of said cage against the action of said spring means.

1,685,651. DYNAMO-ELECTRIC MACHINE. EMILE TESTEIL, Paris, France, assignor to General Electric Company, a Corporation of New York. Filed Sept. 21, 1926, Serial No. 136,827, and in France Oct. 31, 1925. 6 Claims. (Cl. 172—36.)



1. In a dynamo-electric machine, a shaft for the armature of said dynamo-electric machine, a bearing for said shaft, a bracket supporting said bearing, and means movable by the pressure produced by an explosion in said machine for preventing the escape of the products of combustion along said shaft.

1,685,652. LOOP AERIAL. TIMOTHY THAIPT, Cleveland, Ohio. Filed May 23, 1925. Serial No. 32,472. 3 Claims. (Cl. 250—33.)

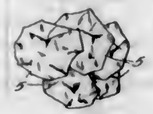


1. A loop aerial comprising in combination radially extending members, one of said members serving as a support for the aerial, cross arms carried thereby, retaining means for the members engaging the members at the point of radiation, two of said members being continuous and intersecting, the others abutting the continuous members at the point of intersection, and loops of wire engaging the cross arms, said loops engaging the arms of the continuous members on the side adjacent to said point of radiation and the arms of the others on the side remote from said point, whereby the loops maintain the abutting members within the retaining means.

1,685,653. MAGNESIUM ALLOY AND METHOD OF MAKING SAME. WILLIAM R. VEAZEY, Cleveland Heights, Ohio, assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Dec. 19, 1924. Serial No. 757,035. 7 Claims. (Cl. 75—1.)

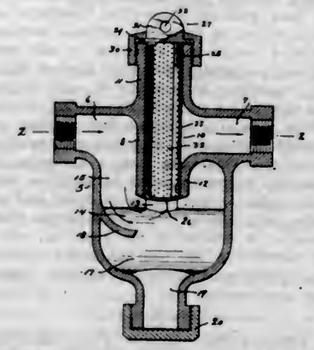
1. As a new product, an alloy of magnesium with from one-hundredths to one-tenth of one per cent of chromium.

1,685,654. PROCESS OF TREATING COKE AND PRODUCTS. CHARLES L. WAGGONER and FRANK B. THACHER, Chicago, Ill., assignors to By-Products Coke Corporation, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1928. Serial No. 268,630. 10 Claims. (Cl. 44—1.)



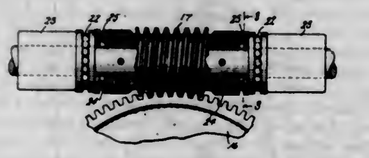
1. The process of improving coke formed by high temperature distillation process and brought to a porous condition of relatively low density with the oily substances and volatile constituents substantially completely removed, which comprises treating the porous mass subsequent to the high temperature distillation process with a moisture-absorbing substance of the barium group.

1,685,655. LIQUID STRAINER. IGNACE J. WENZKA, Depew, N. Y. Filed Mar. 2, 1927. Serial No. 172,110. 15 Claims. (Cl. 210—165.)



2. A liquid strainer comprising a casing having inlet and outlet openings, the casing being formed with a vertical passageway connected at its upper end with the inlet opening, a sump formed in the lower part of the casing, a removable strainer element arranged in the upper part of the casing, and a laterally extending deflecting wall arranged below the vertical passageway and the strainer element, whereby the incoming fluid is prevented from stirring up the accumulated foreign matter in the sump.

1,685,656. INDUCTION VOLTAGE REGULATOR. HARRY R. WEST, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed May 25, 1927. Serial No. 194,173. 4 Claims. (Cl. 171—119.)



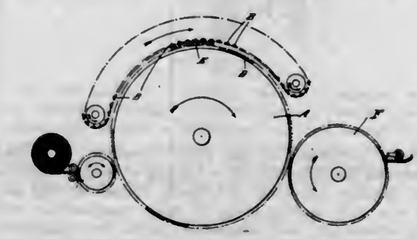
1. An induction voltage regulator including a rotor and a stator, means for adjusting the position of the rotor with respect to the stator, a support for said adjusting means, and resilient means for reducing transmission of vibration from the rotor through said adjusting means to said support, said resilient means including one set of springs to cushion the force between said adjusting means and said rotor and a second set of springs weaker than said first set to exert pressure on said adjusting means when said first set of springs is relieved of compression.

1,685,657. COMPOSITE METAL ARTICLE. WILLIS R. WHITNEY, Niskayuna, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 19, 1922. Serial No. 576,125. 6 Claims. (Cl. 78—93.)



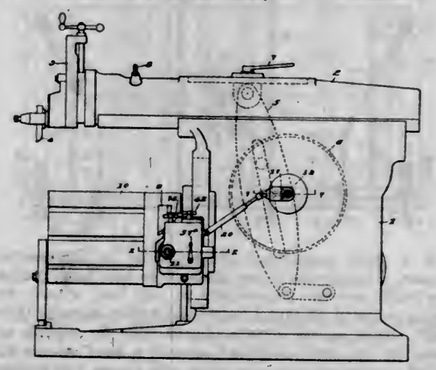
2. The method of joining a body of ferrous metal with a body of cupreous metal which consists in bringing the regions to be joined while pressed together into contact in a reducing gas with a molten alloy of copper and silver.

1,685,658. CARDING ENGINE OR MACHINE. JOHN PLATT, WILLIAM PLATT, and HENRY PLATT, Harrow, England. Filed Sept. 12, 1927, Serial No. 218,887, and in Great Britain Apr. 4, 1927. 2 Claims. (Cl. 19—111.)



1. In a carding machine, the combination with flats or workers provided with a clothing comprising resilient teeth, of a swift clothed with a clothing having straight, rigid and pointed teeth.

1,685,659. SHAPING MACHINE WITH VARIABLE-POWER TRAVERSE. WILLIAM F. ZIMMERMANN, Maplewood, N. J. Filed Mar. 13, 1926. Serial No. 94,622. 14 Claims. (Cl. 90—39.)

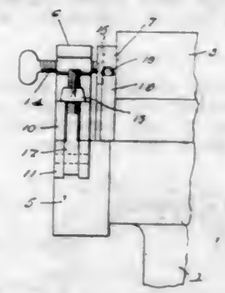


1. A shaper combining a cross-rail; a table; a propelling-transmission therefor; a feed transmission adapted to impart intermittent motion to said table-transmission in

a given direction; a feed rate-adjuster located at the cross-rail; a quick-traverse transmission adapted to impart continuous motion to said table transmission; and a shift-mechanism arranged to cause either said quick-traverse transmission or said feed transmission to drive said table.

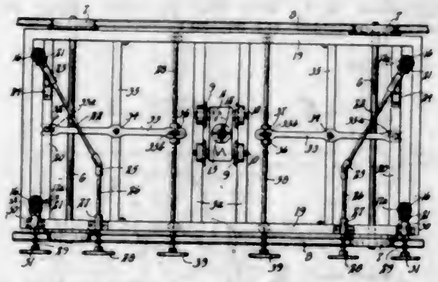
14. A shaper combining a body-casting; a ram; a unidirectional bull-gear; a cross-rail; a table; a transmission-system leading to said table and comprising a single unidirectional shaft from the side of said body-casting adjacent said bull gear to said cross-rail; a bull-gear transmission; an intermittent-motion transmission driven by said unidirectional shaft synchronously with said bull-gear and comprising a feed-stroke regulator located adjacent said cross-rail; a fast-motion transmission; and a single motion-reverser located at the cross-rail for simultaneously reversing the directional effects on the table of both of said transmissions.

1,685,660. MOLDING RING. EUGENE ZGELLIO, Hamilton, Ohio. Filed Feb. 26, 1927. Serial No. 171,253. 2 Claims. (Cl. 22—123.)



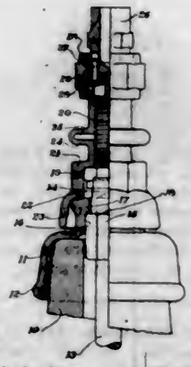
1. In a structure of the class described, a closure forming and molding ring for a bearing structure comprising an annulus composed of hingedly connected half sections, one half section being in turn composed of relatively stationary and adjustable parts, the adjustable part being movable toward and from the bearing cap, the parts of said last section being of a combined thickness equal to the thickness of the complemental section.

1,685,661. TABLE FOR CARRYING STONE FOR CUTTING. WILLIAM J. ALLEN, St. Cloud, Minn. Filed Sept. 7, 1926. Serial No. 133,874. 7 Claims. (Cl. 125—35.)



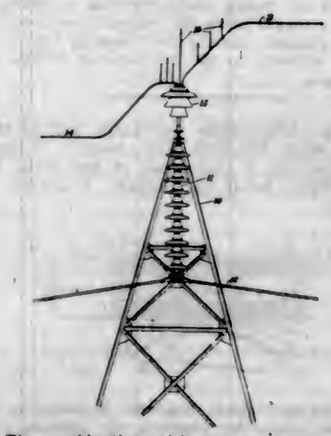
1. A stone supporting device having in combination, a base, a supporting frame disposed on said base, a member bodily movable transversely on said base, a table centrally mounted on said member and bodily movable therewith, means at the corners of said table for raising and lowering the same including operating hand wheels disposed at one side of said table and means for horizontally moving either or both ends of said supporting frame transversely of said base, including hand wheels disposed at one side of said table.

1,685,662. TERMINAL FOR BUSHING INSULATORS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 3, 1922. Serial No. 579,349. 13 Claims. (Cl. 173—353.)



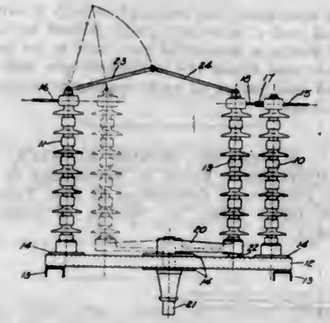
12. A dielectric bushing, a metallic fitting thereon having an opening through said fitting, a conductor extending through said bushing, contacting shoulders on said conductor and fitting to limit the outward movement of said conductor, a closure cap threaded on said conductor for drawing said contacting shoulders against each other to hold said conductor in position in said fitting, said cap engaging said fitting to close the opening through said fitting, resilient means in said cap for exerting pressure on the threaded surfaces of said cap and conductor, a lead conductor engaging said cap, a clamping member having differently acting threaded connections with said cap and lead conductor and acting to draw said cap and lead conductor into contact with each other when said clamping member is rotated in one direction, and means to lock said closure cap and lead conductor against relative rotation while said clamping member draws said lead and cap into contact.

1,685,663. INSULATED PERCH FOR PREVENTING BIRD TROUBLE IN CONNECTION WITH ELECTRICAL TRANSMISSION LINES. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 11, 1924. Serial No. 731,505. 15 Claims. (Cl. 173—251.)



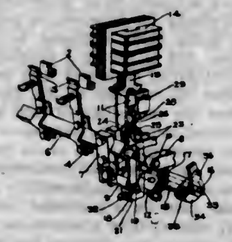
15. The combination with a support of an insulator string suspended therefrom, a conductor carried by said string, an insulator mounted on said support above said string, a perch carried by said insulator and extending therefrom substantially in the vertical plane of said conductor and means for preventing birds from resting on said support and perch adjacent said string but permitting them to rest on said perch at points more remote from said string.

1,685,664. ELECTRIC SWITCH. KUNO BAUERSCHMIDT, Karlshorst, Germany, assignor to General Electric Company, a Corporation of New York. Filed Apr. 7, 1925, Serial No. 21,320, and in Germany May 3, 1924. 7 Claims. (Cl. 200—48.)



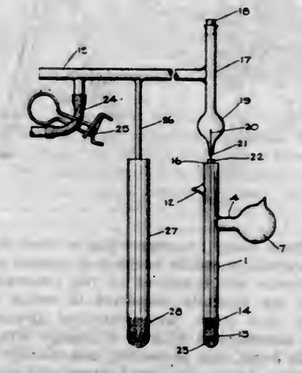
1. An electric switch comprising two stationary line terminal supports, a contact mounted on one of said supports, a cooperating movable contact and means for actuating said movable contact to and from circuit closing position with the stationary contact, comprising a support having its axis substantially parallel to the stationary supports and mounted for revolution about an axis intermediate said stationary supports from a position adjacent one of them to a position adjacent the other.

1,685,665. MECHANISM FOR OPERATING ELECTRIC SWITCHES. LESLIE W. BOND, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 25, 1927. Serial No. 235,412. 2 Claims. (Cl. 200—106.)



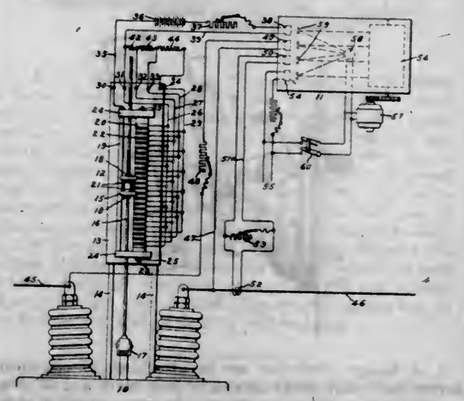
2. In combination, an electric switch having a stationary contact mounted on a base, a cooperating movable contact carried by an operating crank pivotally mounted on said base, a toggle mechanism between said crank and said base biased to open circuit position, a closing solenoid having a plunger, a link connection between said plunger and said toggle for actuating said toggle to close the switch, an extension on one link of said toggle carrying a roller, a lever pivotally connected to said base and biased to the position corresponding to closed circuit, one end of said lever being adapted to engage said roller and the other end being connected to said base through a second toggle mechanism whereby the switch is mechanically latched in closed circuit position, a tripping solenoid having a plunger and a link connection between said last mentioned plunger and said second toggle mechanism whereby the lever and crank are released to open the switch when the tripping solenoid is energized, and manually operable means pivotally mounted on said base adapted to rotate said crank to close the switch when moved in one direction, and to break said second toggle through a link mechanism when moved in the opposite direction, to open the switch.

1,685,666. METHOD AND APPARATUS FOR STORING ALKALI METALS. DOROTHY H. BROPHY and WILLIAM A. RUGGLES, Shenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Aug. 29, 1927. Serial No. 216,118. 6 Claims. (Cl. 23—239.)



4. The method of storing readily oxidizable material in capillary tubing which comprises placing the metal under oil, placing a capillary tube in a casing closed at its lower end, inserting the casing and tube through the oil and into the metal, removing the lower end portion of the casing, and filling the tube.

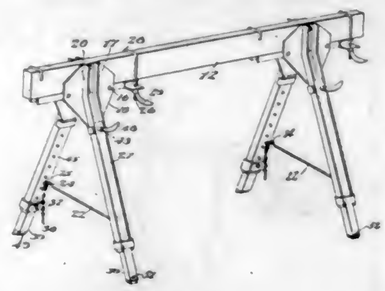
1,685,667. RECORDING SYSTEM. GUY F. DAVIS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 3, 1924. Serial No. 704,070. 4 Claims. (Cl. 234—1.5.)



1. Recording apparatus for investigating the operation of electric controllers comprising, in combination with such a controller, a current regulator responsive to the mechanical movement of the controller, an electric circuit controlled by said regulator, an electric circuit responsive to electrical changes effected by the controller and a recording device responsive to the currents flowing

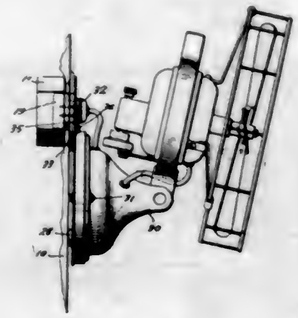
in said circuits for simultaneously producing coordinated graphic records indicative of the direction and extent of the mechanical movement and of the electrical changes produced by said current controller.

1,685,668. FOLDABLE HORSE FOR TRESTLE BEAMS. JAMES G. DAVIS, Buffalo, N. Y. Filed July 2, 1926. Serial No. 120,030. 7 Claims. (Cl. 304—6.)



1. A foldable horse for supporting a beam to form a trestle, comprising a saddle adapted to engage said beam on its underside and composed of two longitudinal sections which are pivotally connected to swing vertically relatively to each other, jaws projecting upwardly from said saddle sections and adapted to engage with opposite sides of said beam, legs projecting downwardly from the saddle sections, and means for holding said beam down on said saddle comprising a bracket arranged on one of said saddle sections and a bolt having a vertical shank passing through said bracket and a hook at the upper end of said shank adapted to engage over the top of the beam, and a screw nut arranged on the lower end of said shank and adapted to engage with the underside of said bracket.

1,685,669. HANGING MEANS FOR ELECTRIC FANS AND THE LIKE. FRANK C. DE REAMER, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed May 24, 1923. Serial No. 641,254. 2 Claims. (Cl. 173—330.)



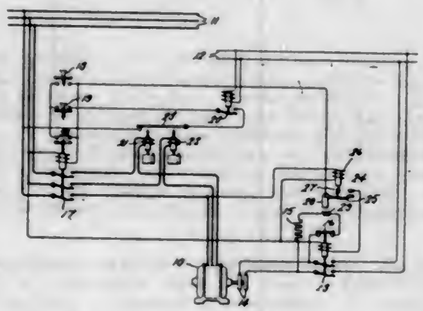
1. A hanger plate for use in attaching an electrical device to a wall outlet having a face plate and a plug receptacle, comprising an attaching portion provided with means for making mechanical connection with the face plate, said attaching portion having an opening through which the plug receptacle is exposed when said mechanical connection is made, and a supporting portion which depends from one edge of the attaching portion and is provided with means for engaging the wall below the outlet.

1,685,670. SHOCK-ABSORBING HANDPIECE. LEO E. EVSLIN, New York, N. Y. Filed Aug. 25, 1925. Serial No. 52,372. 7 Claims. (Cl. 32—15.)



1. In a hand-piece, the combination with a barrel having a head and a rotatable spindle housed in the head, said head having a cylindrical axial bore in its outer end, of a rubber tube fitting the mentioned bore, and a bushing in said tube having an axial opening to receive a tool carrying shank.

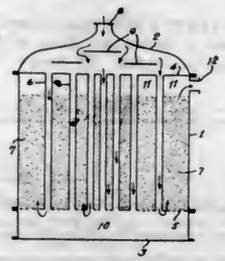
1,685,671. AUTOMATIC MOTOR STARTER. LLEWELLYN C. HARDESTY, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 15, 1924. Serial No. 743,804. 6 Claims. (Cl. 172—280.)



1. In combination, an alternating current motor having a field winding arranged to be connected to a direct current source of supply for synchronous running of the motor, the said motor being arranged to start as an asynchronous motor and to run as a synchronous motor, and a time interval device connected with said motor to be set in operation in response to the energization of the motor to effect the connection of said field winding to said direct current source, the said device being provided with means controlled by the motor for regulating the timing thereof to effect said connection when the motor accelerates normally to substantially synchronous speed, and in case there is a prolonged acceleration of the motor so that substantially synchronous speed is not reached before a certain time interval has elapsed after the energization of the motor, to effect said connection at the expiration of said time interval.

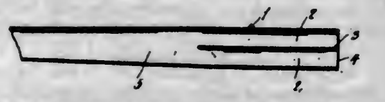
2. In combination, an alternating current motor arranged to start as an asynchronous motor and to run as a synchronous motor, electroresponsive switch mechanism for connecting the field windings of said motor to a direct current supply circuit for running, and means for controlling the said switch mechanism comprising a time interval relay set in operation responsively to the energization of said motor and retarded responsively to the speed of the motor to operate when the motor accelerates normally to substantially synchronous speed and in case there is a prolonged acceleration of the motor so that substantially synchronous speed is not reached before a certain time interval has elapsed after the energization of the motor to operate at the expiration of said time interval.

1,685,672. CATALYTIC APPARATUS. ALPHONS O. JAEGER, Pittsburgh, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Oct. 27, 1926. Serial No. 144,496. 9 Claims. (Cl. 23—288.)



1. Catalytic apparatus comprising a layer type converter, a catalyst layer therein, heat exchanging elements embedded in said catalyst having such a non-uniform relative spacing, dimensioning, design and heat exchanging capacity as to produce a substantially uniform cooling throughout any horizontal cross-section of the catalyst layer.

1,685,673. FIREARM. FELIX B. JONES, Chicago, Ill. Filed Feb. 10, 1927. Serial No. 167,221. 3 Claims. (Cl. 42—76.)



1. In a shot gun, a barrel having a plurality of bores at its breech and extended towards the muzzle, and the barrel in advance of the plurality of bores having a single bore communicating with said bores and tapered to the muzzle.

1,685,674. BATTERY COMPOSITION. PATRICK J. KELLEHER, Salem, Mass. Filed Mar. 16, 1926. Serial No. 95,149. 3 Claims. (Cl. 136—165.)

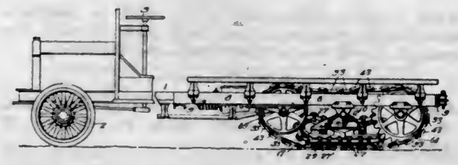
1. A substantially dry composition capable of preventing the formation of sulphate in storage cells comprising substantially 84 parts by weight of magnesium sulphate, 3 parts by weight of ammonium sulphate, 6 parts by weight of potassium sulphate, and 7 parts by weight of aluminium sulphate.

1,685,675. SYSTEM FOR STORING AND HANDLING MATERIAL. FRED T. KERN, Milwaukee, Wis. Filed Feb. 20, 1926. Serial No. 89,522. 12 Claims. (Cl. 214—10.)



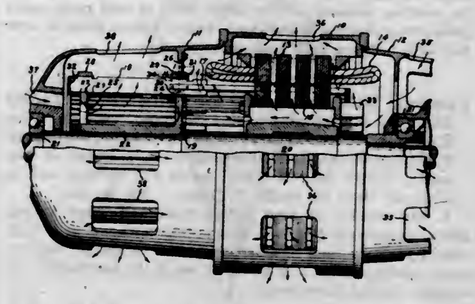
1. A system of the character described comprising a plurality of bins for storing graded material, means associated with said bins for supplying the same with graded material, means for discharging the material from said bins, storage yards, conveying means associated with said bins and yards, each of said bins being provided with means for discharging material upon said conveying means, means for operating said conveying means whereby material discharged from any one of said bins may be deposited in any one of said yards, and means having a range of operation substantially equal to the area of said yards and adapted to move the material from said yards to a common point convenient for the further disposition of said material.

1,685,676. TRACTOR. HOLMAN HARRY LINN, Morris, N. Y., assignor to The Linn Manufacturing Corporation, Morris, N. Y., a Corporation of New York. Filed May 13, 1924. Serial No. 713,022. 12 Claims. (Cl. 305—9.)



12. In a tractor equipped forwardly with steerage provisions and with a power plant and equipped rearwardly with traction units and with a final drive for propelling the same, the combination of a load carrying platform above the traction units, articulated load transmitting elements between the traction units and said platform, said traction units having flangeways and said load transmitting elements having ribs and rollers having flanges adapted to said flangeways and spindles adapted to said ribs.

1,685,677. INDUCTION MOTOR. HOWARD MAXWELL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 17, 1924. Serial No. 720,688. 8 Claims. (Cl. 172—280.)

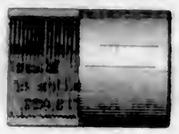


1. In an induction motor, the combination of a frame, a stator structure mounted within said frame, a shaft rotatably mounted and projecting through said stator structure, a rotor structure secured to said shaft and having conductor slots adjacent said stator structure, a fixed support secured to said shaft and axially displaced from said rotor structure, and a winding for said rotor structure having one portion located within the slots of said rotor structure and another portion connected thereto and arranged endwise and in the same plane as the portion located in said slots, said latter portion of said winding being of relatively high resistance and located on said support and adapted to produce a circulation of air for cooling said portion of said winding.

1,685,678. METHOD OF MANUFACTURING PIPE COUPLINGS. GEORGE E. MIRFIELD, Youngstown, Ohio. Filed Apr. 22, 1922. Serial No. 556,113. 2 Claims. (Cl. 29—156.)

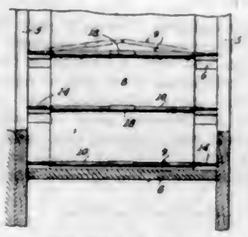
1. A method for manufacturing pipe couplings which consists in initially cutting a length of metal from a relatively thin flat piece of rolled stock, punching an elongated slit in the length of metal so cut with the slit extending in the direction of the greatest width of

the strip and maintaining the greatest width of the strip substantially the same, said slit being punched co-axially of the rolled length of the stock, then expanding the slit



length of metal transversely of its width to develop a substantially cylindrical form, and then drawing the developed length to a suitable length and diameter.

1,685,679. STAIR ROD. CHRISTIAN MUENTENER, Bogota, N. J. Filed Nov. 30, 1927. Serial No. 236,686. 5 Claims. (Cl. 16—12.)

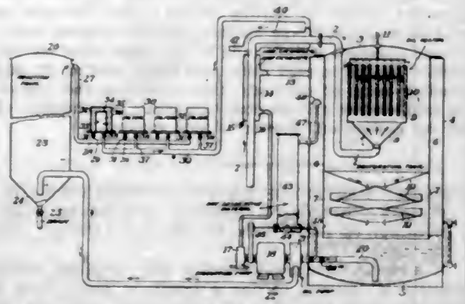


1. A stair rod composed of two tubular sections jointed at one end to permit relative angular motion, rods telescopically engaged in the opposite ends of said tubular sections, means to retain said rods in adjustment therein, cushion elements at the outer ends of said rods, spurs protruding from said cushions, and a sleeve slidable over the joint between said sections.

1,685,680. FULLING WOOL AND THE LIKE. JOSEPH NÜSSLEIN, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Aug. 13, 1926, Serial No. 129,087, and in Germany Jan. 21, 1925. 7 Claims. (Cl. 8—21.)

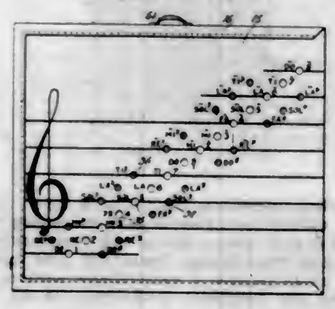
1. The process of acid fulling wool and other animal fibres comprising the step of treating with an acid bath containing less than one per cent of an aromatic sulfonic acid substituted by a side chain which is practically unsuitable for use in tanning.

1,685,681. PROCESS AND APPARATUS FOR RECONDITIONING MINERAL OILS. CLARENCE J. RODMAN, Wilkinsburg, and MAX HECHT, Pittsburgh, Pa. Filed Nov. 11, 1925. Serial No. 68,360. 13 Claims. (Cl. 196—16.)



1. A method of reconditioning electric insulating mineral oil which comprises first evacuating the oil, then introducing an evacuated adsorbent into the oil and while maintaining the oil out of contact with atmospheric gases and then filtering the oil to remove the adsorbent while maintaining it out of contact with atmospheric gases.

1,685,682. APPARATUS FOR TEACHING SIGHT SINGING. MICHAEL B. ROCK, New York, N. Y. Filed Nov. 4, 1927. Serial No. 231,125. 13 Claims. (Cl. 84—471.)



4. A portable apparatus for teaching sight singing comprising a casing including top, bottom and side walls, a rearward box-like extension at the lower end of the casing, a keyboard arranged on said extension and including a plurality of switch controlling keys, a staff board at the front of the casing, lamps representing musical notes associated with the staff board and controlled by the switches.

1,685,683. SPECIAL SLIDING TRAPDOOR VALVE AND GAS-METER PROTECTOR. RAMON SALBADOR, New Orleans, La. Filed Apr. 7, 1927. Serial No. 181,811. 5 Claims. (Cl. 73—1.)



1. In combination, a gas meter casing provided with an opening, a fitting having a hollow body secured to the casing over the opening therein, a valve box element arranged within the body and provided with an opening registering with said first opening and an opening communicating with the interior of the body, and a valve body slidably arranged in said element and normally occupying a position below said openings and adapted to close said opening when the meter is shifted from its normal vertical position.

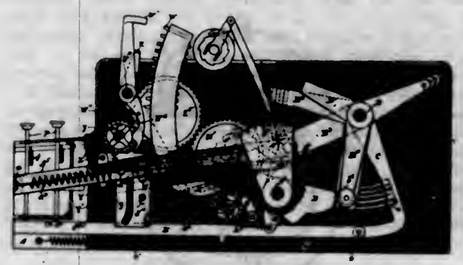
1,685,684. INSULATOR SUPPORT. BURTON M. SMALLEY, Chicago, Ill., assignor to Joslyn Manufacturing & Supply Co., Chicago, Ill., a Corporation of Illinois. Filed June 22, 1925. Serial No. 38,622. 6 Claims. (Cl. 173—321.)

6. In a device of the class described, the combination of a U-shaped bracket frame comprising a yoke member and two integral leg members, said members being formed of continuous channel section, the flanges of the yoke member having integral laterally extending lugs perforated to receive attaching bolts for supporting said U-shaped bracket frame directly upon a supporting surface, and a



channel bar nesting within and secured to the channel of the yoke member to hold the U-shaped bracket member against rocking on the lugs.

1,685,685. BOOKKEEPING MACHINE. ABRAHAM SMITH, Erie, Pa. Filed Apr. 26, 1924. Serial No. 709,180. 15 Claims. (Cl. 101—102.)



5. The combination with several groups of type carriers, means for operating individual carriers of each group independent of the other groups, means adapted to control the movements of individual carriers of any group of type carriers from identical key mechanism.

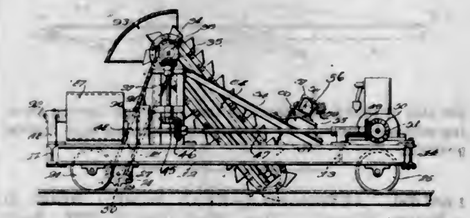
1,685,686. HANDLE FOR STEERING WHEELS. JOHN REGINALD CRISPIN SMITH, Victoria, British Columbia, Canada. Filed Apr. 26, 1927. Serial No. 186,780. 2 Claims. (Cl. 74—33.)



1. In a steering wheel, a handle, an adjustable flexible band with a half round threaded end at each end thereof, a cushioning strip attached to said band, a threaded sleeve, a recess in said handle, a recess in said sleeve, and an annular spring ring.

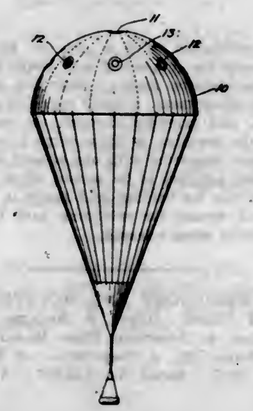
1,685,687. ROAD-BUILDING MACHINE. HARRY F. THOMPSON, Stratford, N. Y. Filed Mar. 8, 1927. Serial No. 173,782. 2 Claims. (Cl. 37—108.)

1. A device of the character described comprising an open frame, wheels for supporting the frame, a shaft rotatably mounted on the frame, an elevator supported within the open frame and including a bucket equipped chain, a sprocket slidably mounted on the shaft and driven thereby at the upper end of the elevator, the lower end of the elevator projecting through the bottom of the open frame, bars connected to the frame at the sides thereof and located at an angle to the horizontal, an I beam secured to



the bars and located in a plane at an angle to the vertical, a carriage embracing opposite faces of the I beam and mounted for longitudinal movement on said beam, a chain connecting the carriage with the lower end of the elevator, and providing means for adjusting the said lower end in various horizontal positions.

1,685,688. PARACHUTE. AXEL RAOUL THÖRNBLAD, Stockholm, Sweden, assignor to Aktiebolaget Fallskärm, Stockholm, Sweden, a Corporation. Filed Apr. 13, 1926, Serial No. 101,819, and in Sweden Apr. 14, 1925. 1 Claim. (Cl. 244—21.)



A parachute having a single body portion provided with a plurality of outlet openings spaced circumferentially over the middle part of the surface of said body portion and having a total area of not less than 0.2% of the total area of said body portion, whereby the suction behind the body portion is utilized for decreasing the shock which arises when the parachute opens.

1,685,689. RUG-SIZING FRAME. ARTHUR L. STEWART, Danville, Ill. Filed Nov. 10, 1926. Serial No. 147,586. 6 Claims. (Cl. 45—24.)

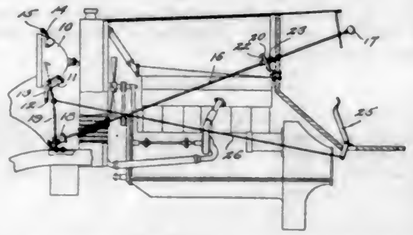
1. Apparatus for temporary mounting of rugs to hold them while applying sizing and drying, comprising a frame adapted to lie flat on a floor and hold the rugs under tension in applying sizing, and adapted to be stacked vertically for drying, said frame comprising two flat rectangular sections adapted when extended to lie flat on a plane horisontal surface, extensibly adjustable hinge means on said sections permitting one section of said frame to be swung up without causing any part of the frame to pro-

ject below the original bottom surface of the frame, and means on each end and one side of the upper face of said frame for removably securing a rug thereon, and means on



the side of said frame opposite that on which the rug securing means is located for supporting the frame in a vertical position.

1,685,690. AUTOMOBILE HEAD LAMP. HENRY H. WITZEL, Mitchell, S. Dak. Filed June 11, 1927. Serial No. 198,146. 2 Claims. (Cl. 240—61.)



1. The combination with a pair of automobile head lamps, of means for supporting said lamps for lateral and downward movements, means connecting said lamps for simultaneous adjustment, a hand operated shaft mounted for rotation, and extended through the dash board and radiator of the machine, a drum carried by said shaft, a flexible element connected with one of said lamps and with said drum and adapted to be wound about and unwound therefrom, means for holding said lamps in their adjusted positions, and means for returning said lamps to their normal positions when released.

1,685,691. HEADLIGHT AND MOUNTING FOR TOY RAILWAY CARS. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 14, 1927. Serial No. 219,537. 3 Claims. (Cl. 46—48.)



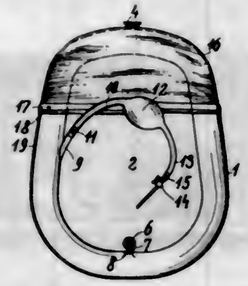
1. A headlight construction for toy locomotives comprising in combination a car body having a roof portion projecting beyond one end thereof and also provided with an opening, a car chassis having a front pilot portion adapted to project beyond the end of the car body when the latter is affixed to the chassis, an interior wheeled frame carrying the chassis, a lamp support mounted on the interior frame behind said opening in the car body thereby to receive a lamp whose bulb will be positioned partly within the opening and having a minimum projection beyond the car body.

1,685,692. CALENDAR. JOHN FREDERICK BENNET, London, England. Filed Mar. 25, 1927, Serial No. 178,411, and in Great Britain Mar. 29, 1926. 3 Claims. (Cl. 40—110.)



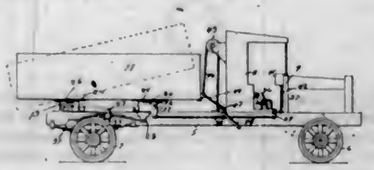
1. In a calendar of the class described, a transparent strip and a slide to carry the strip, said slide having prongs integral therewith, extending through the material of the strip and securing the latter to the slide.

1,685,693. BED BIDET. BRUNO CLAUS, Magdeburg, Germany. Filed June 11, 1927, Serial No. 198,256, and in Germany Sept. 23, 1926. 2 Claims. (Cl. 128—231.)



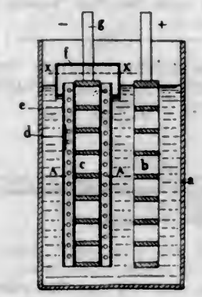
1. A bed-bidet comprising in combination a tube of heat conducting material bent to form an oval seat, a solid bottom plate fixed on the lower surface of said tube, a suction tube branching off the inner side of said bent tube in inward direction, a suction valve in said suction tube, a rubber hose comprising a suction ball mounted on the end of said suction tube, a pressure valve in the free end of said rubber hose, a rose extending from said pressure valve, a cock in said rose, an outflow tube at the front end of said bent tube, a screen in said outflow tube, and a suction valve in the same.

1,685,694. COMBINED WEIGHING AND DUMPING BODY FOR MOTOR TRUCKS. THOMAS R. DUNCAN, Richmond, Calif. Filed Nov. 22, 1927. Serial No. 235,054. 2 Claims. (Cl. 265—41.)



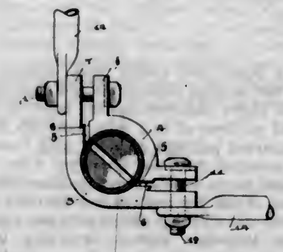
1. In a device of the character described the combination with a vehicle chassis, a body positioned thereon, a plurality of beam arms mounted on said chassis, each of said arms having a nose adapted to be moved into contact with the bottom of said body, a spring having one end secured to said chassis, means for raising and lowering the opposite end of said spring, said spring being adapted to be contacted by said beam arms, for the purpose specified.

1,685,695. SEPARATING DEVICE FOR LEAD STORAGE BATTERIES. CHARLES JEAN VICTOR FÉRY, Paris, France. Filed May 18, 1926, Serial No. 110,035, and in France May 25, 1925. 2 Claims. (Cl. 136—143.)



1. A separating device for the protection of the negative plates of lead storage batteries against the oxidizing products which become disengaged from the positive plates and against the oxygen of the air, comprising a protecting sheath surrounding the negative plates and open at the opposite ends, said sheath consisting of a material which after impregnation by the liquid in which it is immerged is impervious to gases, a partition wall arranged between the protecting sheath and the faces of the negative plates in order to form between the walls of said casing and the plate a free space for the circulation of the electrolyte around said negative plates; means for preventing the admission of the oxygen of the outer air to the upper part of the negative plates and to permit the escaping to the outside of the hydrogen which is discharged on said plate.

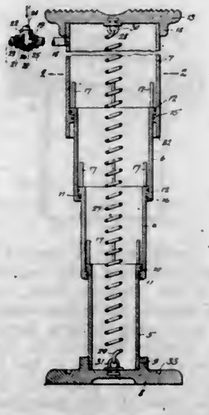
1,685,696. CLAMP. GUSTAV FRANK, Wichita Falls, Tex. Filed Oct. 11, 1926. Serial No. 141,019. 4 Claims. (Cl. 189—19.)



1. A clamp comprising a pair of elongated semi-sleeve like sections having the inner faces thereof curved concavely transversely thereof, whereby said sections are adapted to embrace the adjacent ends of substantially alined tubular members, spacer members, one of said spacer members being located within each of said sections intermediate the ends of the sections for engaging with one end of one of the tubular members to position said clamping sections on said tubular members, and retaining tongues extending from said spacer members into one of said tubular members.

1,685,697. JACK. CORNELIUS F. GUERIN, New York, N. Y., assignor of one-half to Nathan M. Guinsburg, New York, N. Y. Filed July 30, 1926. Serial No. 126,026. 1 Claim. (Cl. 254—93.)

A jack including a plurality of telescopically associated tubular sections, the outermost sections having closed outer ends, and means for introducing fluid pressure to and exhausting the same from the interior of the sections for distending the jack and permitting of the collapsing thereof, the outer closed end of one outer section having a projecting flange formed with an annular groove

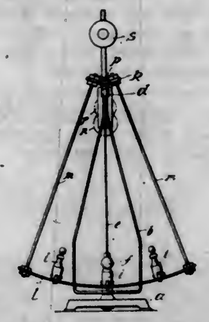


and the innermost end of the other outer section having a projecting end adapted to engage within the groove for sealing the working peripheries of the jack sections against the collection of dust, dirt, grit, or other foreign matter.

1,685,698. HALOGENIDES OF AROMATIC OXAMINIC ACIDS. JOSEF HALLER, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 26, 1926, Serial No. 151,006, and in Germany Nov. 25, 1925. 9 Claims. (Cl. 260—124.)

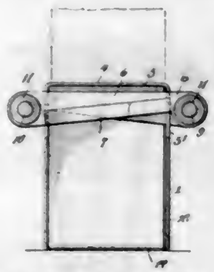
1. In processes for the production of an oxaminic acid halogenide of a primary aromatic amine, the step consisting in reacting with an oxalylhalogenide upon a salt of a primary aromatic amine.

1,685,699. APPARATUS FOR PLAYING SKITTLES. JULIUS KRAUTH, Sontheim-Heilbronn, Germany. Filed Dec. 23, 1927, Serial No. 242,209, and in Germany Feb. 1, 1927. 9 Claims. (Cl. 273—98.)



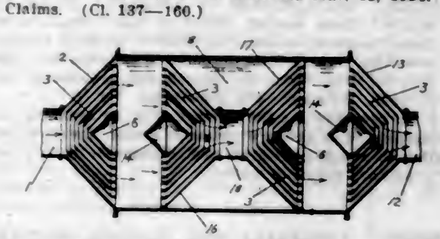
1. An apparatus for playing at skittles, comprising in combination with a base plate, a vertical frame-shaped support rotatably mounted on said base plate, a horizontal arm fixed in said support, a ball suspended pendulum-like in the front end of said horizontal arm, and a swing-like holder for the skittles oscillating perpendicularly to the swinging movement of said ball.

1,685,700. BRICK-ICE-CREAM CUTTER. CARL A. KULENKAMPFF, New York, N. Y. Filed Apr. 22, 1926. Serial No. 103,929. 1 Claim. (Cl. 107—21.)



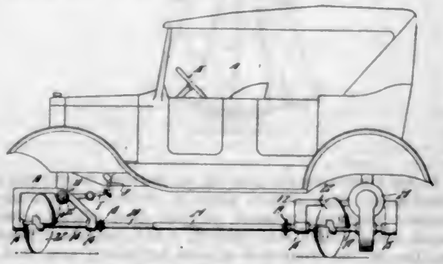
In a brick ice cream cutter, a support having slots in its top, said slots extending into the sides of the support, a knife carrier separate from the support and adapted to slide thereon, the carrier comprising members having flanged upper ends forming handles, and a plurality of cutters mounted between the upper ends of the end members, the cutting edges of the knives being inclined from one end to the other and the cutters being arranged with the edges of each individual knife inclined in one direction with alternate knives being inclined in opposite directions.

1,685,701. EXHAUST-GAS MUFFLER FOR INTERNAL-COMBUSTION ENGINES. JOSEPH BLANCHARD, Sydney, New South Wales, Australia. Filed Sept. 14, 1926, Serial No. 135,392, and in Australia Mar. 18, 1926. 5 Claims. (Cl. 137—160.)



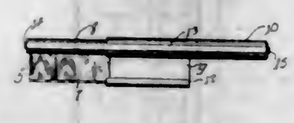
1. A muffler comprising a cylindrical chamber with ends of truncated conical shape one of which is adapted for connection to an exhaust pipe and the other terminated in an open tail piece, a nest of concentric partition members fitted in said chamber adjacent one of its truncated conical ends and arranged in spaced relation to form concentric gas passages of different lengths, and a coned spreader plate fitted within the chamber adjacent the other truncated conical end.

1,685,702. SPIRAL DRIVE DEVICE. FREDERICK PAUL BREEN, Springfield, Mass. Filed July 11, 1925. Serial No. 43,056. 2 Claims. (Cl. 180—3.)



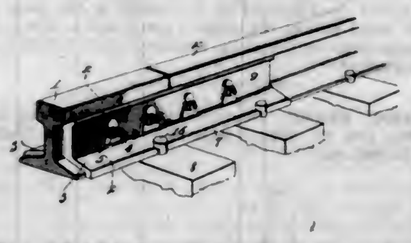
1. A drive mechanism for a motor vehicle from which the front and rear wheels have been removed, comprising frame members mounted upon the front axle spindles, other frame members of angular form mounted upon the end portions of the rear axle housings, shafts journaled within the respective frame members, spiral blades mounted on said shafts, and telescopic shafts having universal joint connections with the first named shafts at each side of the vehicle.

1,685,703. RAZOR-BLADE HOLDER. CYRUS A. CLARK, Claremont, Calif. Filed Aug. 25, 1926. Serial No. 131,472. 1 Claim. (Cl. 30—25.)



A device of the character described comprising a metal blank bent adjacent its upper extremity to define a tubular top portion and having a flap on its lower extremity, a tubular razor blade carrying member slidably positioned in the tubular portion of said blank and means carried by said blade carrying member for limiting its lateral movement relative to said blank, said means comprising a metal strip in parallelism with said tubular member and having its extremities connected thereto.

1,685,704. RAIL JOINT. ABRAHAM LINCOLN COLLINS, Sr., Amite, La. Filed Nov. 11, 1925. Serial No. 68,380. 1 Claim. (Cl. 238—181.)

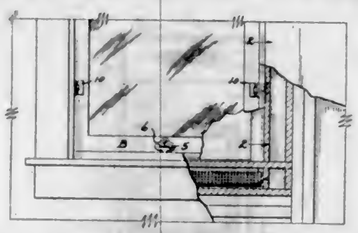


In a rail joint, two alined rails having registering notches in the meeting ends of the web portions thereof, a pair of fish plates disposed against opposite sides of the meeting end portions of said rails, said fish plates having laterally enlarged portions provided with transverse openings said enlarged portions extending down the web of the fish plate to its base and being larger at the bottom portion than at the top and the web portions of said rails having transverse openings alined with the openings of the fish plates, fastening devices extending through said alined transverse openings and clamping said fish plates to the rails, the portions of the fish plates which extend past the line of juncture between the rails being imperforate, and a solid lateral lug on the imperforate portion of one of said fish plates entering and engaging with said registering notches in the meeting ends of the rails, said fish plates having down turned flanges at their outer edges abutting the edges of the base flanges of the rails.

1,685,705. SCREEN-CLAMPING DEVICE. WILLIAM J. DUFFICY, Denver, Colo. Original application filed July 29, 1927, Serial No. 209,340. Divided and this application filed Mar. 12, 1928. Serial No. 261,111. 1 Claim. (Cl. 156—39.)

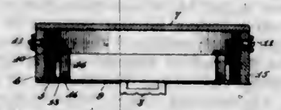
Means for holding in adjusted position a screen having one end fastened to a spring roller mounted in a window frame, with the other end of the screen detachably connected with the sash, comprising guiding strips for the side edges of the screen, one strip of each pair of guiding strips being movably arranged, manually operated

means for moving the said strip toward and away from the other strip, such means comprising an extension on each strip having an opening therein, a crank shaft jour-



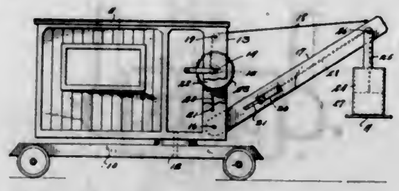
nailed in the window frame with one end engaging the opening in the extension and a handle connection with the outer end of each shaft.

1,685,706. MUSICAL INSTRUMENT. FREDERICK GRETSCH, Brooklyn, N. Y. Filed Mar. 1, 1926. Serial No. 91,527. 1 Claim. (Cl. 84—271.)



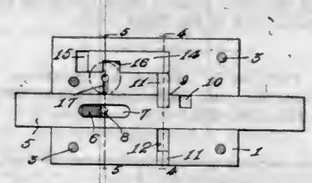
A stringed musical instrument having a bridge, and comprising a rim, a back closing one end of said rim, a plurality of right angled brackets supported within said rim intermediate the ends thereof, with the free ends projecting inwardly, a diaphragm supporting ring supported on the free ends of said brackets and within said rim, a diaphragm extended over said diaphragm supporting ring, a clamping ring spaced from the rim and surrounding said diaphragm supporting ring, means for securing said clamping ring to said brackets and over the diaphragm supporting ring whereby said clamping ring secures said diaphragm in place, a neck connected to said rim, and vibratile strings connected to said clamping ring but out of contact with said rim, and supported on said bridge and extending across the diaphragm and along the neck, and means for securing one end of said strings to said neck.

1,685,707. TOY MAGNETIC CRANE. EDWARD J. KEBBY, Schenectady, N. Y. Filed Sept. 15, 1927. Serial No. 219,723. 8 Claims. (Cl. 46—49.)



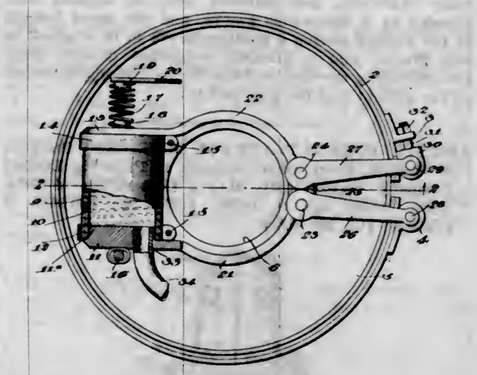
6. In a magnetic toy, a non-magnetic magnet housing, a support therefor permitting the housing to be raised and lowered, a magnet within the housing and means operable to raise and lower the magnet within the housing to thereby reduce or increase the distance between the lower end of the housing and the magnet to thus permit the magnet to transmit magnetism through the lower end of the housing and thus magnetise an object to be lifted, or by increasing said distance cause the detachment of the object from the magnet.

1,685,708. LOCK AND LATCH. ADOLPH KNESCH, Rule, Tex. Filed May 21, 1926. Serial No. 110,798. 1 Claim. (Cl. 70—76.)



A lock of the character described comprising a casing having a longitudinal passage formed therethrough, a bolt formed with an elongated opening and mounted for slidable movement in the passage with its ends projecting beyond the ends of the casing in a manner whereby one end provides a handle, a pin secured to the casing and extending into the opening, a coil spring positioned in the opening and having its end convolutions engaging the pin and one end of said opening for normally maintaining the bolt in a retracted position, said bolt being formed with spaced parallel notches, said casing having a vertically arranged slideway having its lower end open, said slideway communicating with the longitudinal passage, a tumbler mounted in said slideway and operable by placing a finger in said opening and adapted for engagement with either one of said notches to retain said bolt in a projected or retracted position, said casing being provided with a horizontal guide-way, a substantially L-shaped locking tumbler provided with a notch and having one arm thereof mounted for slidable movement in said horizontal guide-way, and means engageable with said locking tumbler and within the notch thereof for moving said locking tumbler in the path of the first mentioned tumbler for locking the latter in the notches of said bolt.

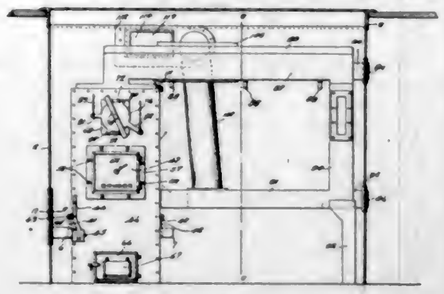
1,685,709. BRAKE. ADELBERT E. LEE, Akron, Ohio. Filed Oct. 30, 1926. Serial No. 145,281. 2 Claims. (Cl. 188—152.)



2. The combination with a brake drum and its band, of a pair of members having portions located within the brake drum and having outer end portions pivotally connected with the ends of the brake band, links connecting the members intermediate the ends of the members and constituting fulcrums for the latter, a flexible tubular member, heads closing the opposite ends of said tubular member and respectively connected with the second ends of the members, a fixed support for one of said heads, spring means acting against the other head and tending to force said last named head toward the first head, and a pressure fluid conducting conduit having communication with the tubular member, said tubular member be-

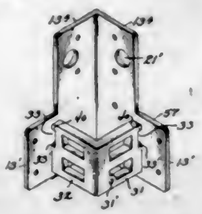
ing circumferentially reinforced, one of the members constituting an actuating lever for contracting the brake band upon admission of fluid pressure into the tubular member, and the other member constituting an anchorage for the opposite end of the brake band.

1,685,710. FURNACE. HENRY A. LEONHART, Bangor, Wis. Filed Mar. 31, 1928. Serial No. 266,285. 4 Claims. (Cl. 126—101.)



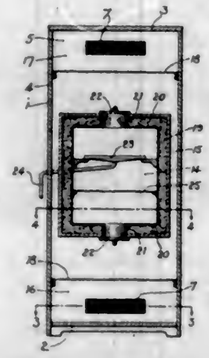
1. A heating plant comprising a fire box, a casing surrounding the fire box, and a grating arranged over the open top of the casing, a heat circulating and radiating conduit comprising a substantially U-shaped member made up of connected sections, and the upper branch of the conduit forming the top of the fire box, the lower branch of the conduit having a closed end, supporting means between the lower branch and the fire box of the conduit, legs also supporting the conduit, transversely arranged arched ribs on the under face of the upper branch of the conduit secured to the sides of the casing, longitudinally extending ribs on the top of said upper branch of the conduit, a pipe member connected to the lower branch of the conduit and having an outlet end extending through the casing, and a damper in said end, said pipe member having a substantially rectangular box-like portion extending laterally therefrom, and provided with an opening surrounded by a continuous groove, and the upper branch of the conduit having a continuous rib to be received in said groove, and a pivotally supported damper plate for controlling the opening between the said upper branch of the conduit and the pipe member.

1,685,711. CORNER PLATE FOR DERRICKS. CHARLES W. LYNCH, Perry, Okla., assignor to Pickering Lumber Company, Kansas City, Mo., a Corporation of Delaware. Filed Apr. 9, 1926. Serial No. 100,950. 5 Claims. (Cl. 20—0.5.)



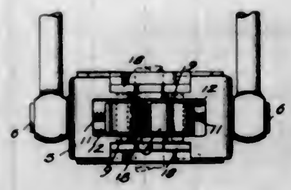
1. In construction of the class described, an outer corner plate including flanges provided with apertures, an inner corner plate comprising flanges including extensions adapted to pass thru some of the apertures of the outer plates and to be secured to said plates, the corner plates being reversely positioned with reference to each other, and the inner corner plate including a slotted portion providing a shoulder, and a girt having a slotted end portion and engaging said shoulder.

1,685,712. FOOD CABINET. DRAPER TREADWAY MARSHALL, Vancouver, British Columbia, Canada. Filed Aug. 6, 1926. Serial No. 127,673. 1 Claim. (Cl. 62—31.)



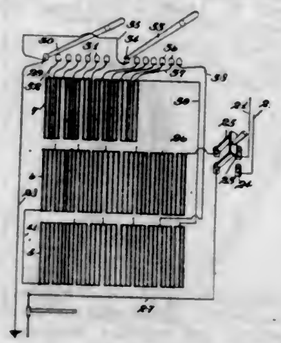
A food cabinet comprising a casing having top and bottom openings for the circulation of air therethrough and provided with upper, lower and intermediate doors giving access to corresponding interior portions of the casing, the upper and lower portions of the casing being provided with shelves designed to support food or other articles therein without obstructing the passage of air through the casing, an insulated compartment occupying the intermediate portion of the casing and secured to that wall portion of the casing by which the said intermediate door is carried and being accessible through said door, said insulated compartment being spaced from the remaining surrounding wall portions of the casing to provide air flow passages connecting the upper and lower portions of the casing between which the insulated compartment is situated, refrigerant and article supporting means contained within said insulated compartment, there being openings formed in the top and bottom wall portions of the insulated compartment to permit air to pass through as well as around said compartment when outside temperature conditions are such that circulation of outside air through the casing and compartment is sufficient to preserve the articles contained therein and means for closing the openings in said compartment when temperature conditions are such as to require the use of a refrigerant therein.

1,685,713. OIL-WELL ELEVATOR. JOSEPH F. MOODY, Tulsa, Okla. Filed Sept. 1, 1925. Serial No. 53,856. 8 Claims. (Cl. 294—91.)



1. An elevator comprising a body having a rod receiving slot, the walls of said slot being provided with grooves, wear resisting members detachably received in said grooves and extending into said slot to space the rod from contact with the walls of the slot, dogs adapted to extend into said slot for engaging a rod, and pivot elements connecting the dogs to said body, said pivot elements having their ends confined between said wear resisting members whereby the pivot elements are securely held in place.

1,685,714. RHEOSTAT. THADDEUS BAKER MOORER, Charleston, S. C. Filed Sept. 16, 1924. Serial No. 738,033. 4 Claims. (Cl. 201—48.)



1. A rheostat comprising a succession of insulated grid sections in series connection with a series of successive sections forming part thereof provided with separate cut-out connection to successively arranged switch contact members, and a single blade switch member mounted for movement progressively to engage and connect in series said successive contact members whereby movement of the switch blade to engage said contacts is effective progressively to decrease the grid resistance interposed in the circuit.

1,685,715. DRY FUNGICIDE. EMIL MOLZ, Halle-on-the-Saale, Germany, assignor to Chemische Fabrik Ludwig Meyer, Mayence, Germany. Filed Sept. 8, 1925, Serial No. 55,170, and in Germany Sept. 24, 1924. 2 Claims. (Cl. 167—3.)

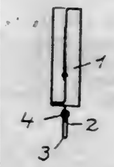
1. A dry fungicide comprising a mixture of mercury chloride and an alkaline iodide, said chloride and iodide forming mercury iodide in the presence of the water in the soil.

1,685,716. OIL-DERRICK ANCHOR. GEORGE B. MULLEN, Stroud, Okla. Filed May 17, 1926. Serial No. 109,686. 2 Claims. (Cl. 189—21.)



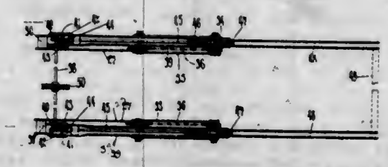
1. The combination with a derrick including a foundation, legs rising from the foundation, and braces connecting said legs, of anchors embedded in said foundation at the lower ends of the legs, and guy wires connected to said anchors and having portions embracing said legs at different heights of the derrick immediately above said braces, said wires crossing one another at the different sides of the derrick and being disposed in substantially the same planes with said sides.

1,685,717. TUNING DEVICE. LEOPOLD MULLER, Schonbach, Czechoslovakia. Filed May 31, 1927, Serial No. 195,518, and in Germany Oct. 6, 1926. 4 Claims. (Cl. 84—456.)



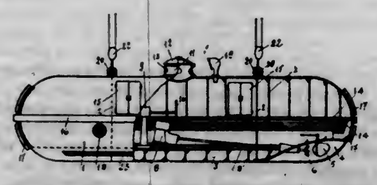
3. A tuning device comprising a holder consisting of a strip of material bent into U-shape in cross-section, a series of tubes each containing a reed and having a lug at one end, and a pin passing through said holder and lug to constitute a hinged connection between each tube and the holder.

1,685,718. LEVER LINKWORK APPARATUS. ALEXANDER GEMMELL MURDOCH, London, England. Filed May 3, 1926, Serial No. 106,584, and in Great Britain May 7, 1925. 13 Claims. (Cl. 156—44.)



1. In a roller awning construction, a lever linkwork apparatus comprising a primary arm mounted to turn on a suitable support, means for turning the primary arm about its pivot, means for supporting the primary arm in any adjusted position, a secondary arm pivoted to the primary arm at a desired distance from the pivot thereof, cooperative gearing arranged at the pivotal connection between, and operatively connected to, the primary and secondary arms, and means for actuating the said gearing to cause the secondary arm to move about its pivotal connection with the primary arm for the purposes set forth.

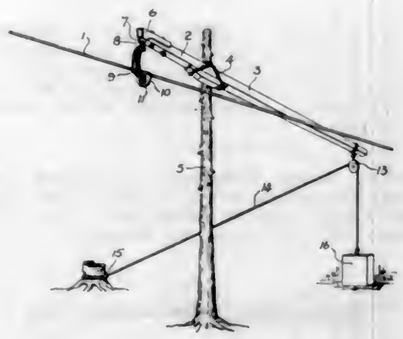
1,685,719. LIFEBOAT. DAVID S. NEILL, Genoa, Italy. Filed Dec. 17, 1927, Serial No. 240,790, and in Italy Nov. 19, 1927. 2 Claims. (Cl. 9—4.)



1. In lifeboats, a thoroughly closed hull of substantially cylindrical shape with hemispherical fore and aft ends; a suitable number of doors on the upper sides, suitable

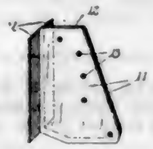
ventilator tubes and means for hermetically closing same from the interior, suitable horizontal fenders arranged towards the periphery of the largest horizontal sectional plane; a number of vertical fenders arranged stem, and sternwards and a number of outwardly projecting stirrup members arranged below the plane of the horizontal fender and supporting each of a pivoted ball-like cork-fender for ensuring the safe lowering of the lifeboats down the inclined side of a heeling ship; and suitable driving, governing, and steering means, as well as storage and other tanks and commodities as usual or prescribed in lifeboats.

1,685,720. FLOATING TENSION FOR CABLEWAYS. GUST NELSON, Vancouver, British Columbia, Canada, assignor of one-half to Frank R. Pendleton, Vancouver, British Columbia, Canada. Filed Nov. 9, 1927. Serial No. 232,143. 4 Claims. (Cl. 104—116.)



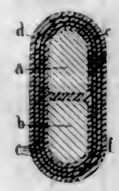
1. An intermediate support for an aerial cable track comprising a pivotally mounted cantilever having a hanger at one end by which the cable is supported, and means at the other end for applying a yielding downward tension thereon.

1,685,721. COMBINATION SAW AND SQUARE. ALBERT ADOLF NEILSON, Beachwood, N. J. Filed Apr. 12, 1928. Serial No. 269,454. 1 Claim. (Cl. 7—13.)



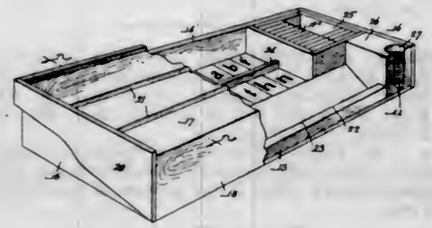
The combination with a saw comprising a handle having a kerf, a blade having one end portion in said kerf, and securing elements extending through said handle and blade, of an attachment comprising a doubled plate fitting astride said blade with its bend seating on the upper edge of the blade, the plate having side portions disposed in the kerf of the handle and provided with apertures receiving said securing elements, the side portions having outstanding flanges at their outer edges disposed at right angles to said bend, said kerf being of a width equal to the aggregate thicknesses of said blade and side portions.

1,685,722. INSULATION OF CONDUCTORS USED IN ELECTRICAL APPARATUS. CHARLES ALGERNON PARSONS and JESSEL ROSEN, Newcastle-on-Tyne, England; said Rosen assignor to said Parsons. Filed Mar. 19, 1925. Serial No. 16,835, and in Great Britain May 1, 1924. 8 Claims. (Cl. 171—252.)



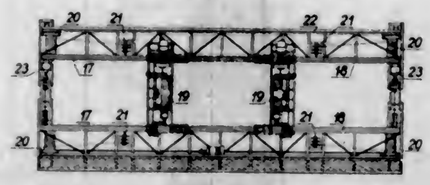
1. In combination in electrical apparatus having an electro-magnetic field, a main winding consisting of a conducting element and auxiliary windings composed of sheaths surrounding said conducting element and varying in number lengthwise thereof, said conducting element and sheaths being in inductive relation to said field as set forth.

1,685,723. GAME APPARATUS. MAY J. ROBINS, Katonah, N. Y. Filed Aug. 25, 1927. Serial No. 215,417. 9 Claims. (Cl. 273—135.)



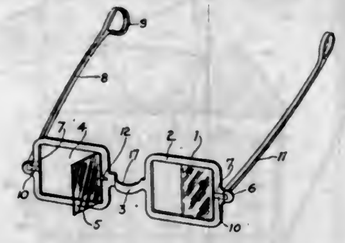
1. A game apparatus including a box and a flanged cover, the box including a low forward wall and the cover including a deep flange at the forward side to overlap said wall and to cause the cover when removed, to rest in inclined position, the cover flanges extending upwardly above the cover edges and cooperating with longitudinally extending ribs on the cover to form word racks.

1,685,724. OVERHEAD TRAVELING CRANE FOR LIFTING RAILROAD VEHICLES. JULIUS ROSENTHAL, Cannstatt-Stuttgart, Germany. Filed Nov. 12, 1924, Serial No. 749,481, and in Germany Nov. 16, 1923. 2 Claims. (Cl. 212—11.)



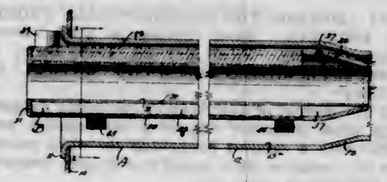
1. In an overhead traveling crane, a pair of widely spaced tracks, a substantially rectangular frame comprising trucks riding on said tracks and girders extending between the ends of said trucks and secured thereto, winches mounted in fixed positions on said girders, driving means for said winches, lifting cables secured to said winches and adapted to be wound thereon, and means for connecting said cables to an object to be raised, the space above, below, and within the inner limits of said rectangular frame being substantially unobstructed by any part of the crane.

1,685,725. SPECTACLES. FREDERICK AUGUSTUS ROWE, Vancouver, British Columbia, Canada. Filed Dec. 14, 1926. Serial No. 154,807. 3 Claims. (Cl. 88—41.)



1. A spectacle comprising an eye piece in the form of an expansible rectangular frame having pintle sockets provided in the upper and lower inner edge portions of the frame, there being angularly related grooves formed in the said inner edge portions of the frame in immediate proximity to each of said sockets, and a rectangular lens having upper and lower pintles insertable in said sockets when the frame is expanded to the required extent, the edge portions of the lens adjacent to the pintles being selectively engageable in said grooves and adapted to be yieldingly retained in said grooves by the resilient gripping pressure of the frame.

1,685,726. SUPERHEATER. HARRY R. STEVENS, WILLIAM S. PARKER, FRANK W. SHUPERT, and JARED C. BENSON, Sanford, Fla. Filed Dec. 7, 1923. Serial No. 679,159. 3 Claims. (Cl. 122—462.)



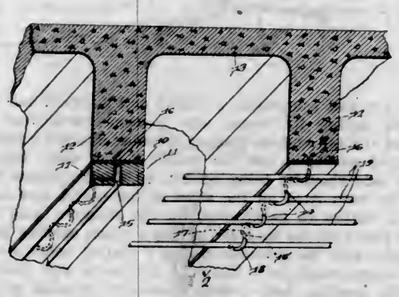
1. As an article of manufacture a superheater unit comprising an inner cylindrical shaped casing, an outer cylindrical shaped casing having slots at diametrical opposed points thereon extending from one end toward the other end for the major length thereof, partition walls welded to said inner casing on the outer circumference thereof and welded in the slots of said outer casing, and means sealing the inner and outer casings at the ends thereof, said outer casing having inlet and outlet openings communicating with the space between the inner and outer casings.

1,685,727. DISPENSING APPLICATOR. ROBERT STEWART, New York, N. Y. Filed May 27, 1927. Serial No. 194,760. 3 Claims. (Cl. 215—73.)



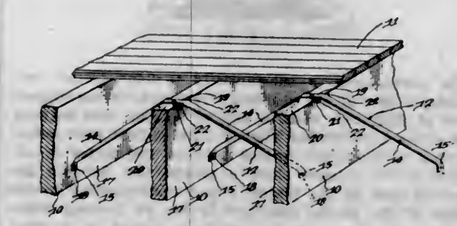
1. In combination, a container, a plug fitting within the mouth of the container and having an outlet passage therein, a closure cap rotatably mounted on the container and covering the plug, and having an opening therein adapted to be selectively aligned with the passage in the plug by rotating the cap, the cap and plug including means acting to mechanically seal the passage when the cap is in passage-closing position, said means comprising a hollow flexible nipple on the plug encircling the outer end of the passage and folded over by the cap.

1,685,728. HANGER. PETER A. STONE, Chicago, Ill. Filed Sept. 9, 1926. Serial No. 134,490. 1 Claim. (Cl. 72—118.)



The combination with a soffit of a floor construction and two parallel extending supporting bars disposed beneath the soffit and in spaced relation with respect to each other, of a supporting member disposed between the soffit and the supporting bars and spanning the upper end portion of the space between the bars and having a plurality of aligned openings formed therein, and a wire woven through said openings and providing oppositely disposed projections, certain of the projections on one side of the supporting member being adapted to be embedded into the concrete forming the soffit, the remaining of the projections being adapted to receive pencil rods for supporting lathing.

1,685,729. BRIDGING CONSTRUCTION FOR JOISTS. PETER STONE, Chicago, Ill. Filed July 27, 1927. Serial No. 208,841. 1 Claim. (Cl. 20—9.)



A bridging for floor joists including an elongated member having a substantially flat portion at substantially the mid point in the extent thereof, said member including substantially oval shaped portions extending outwardly from said flat portion at an angle thereto, said flat portion having ears struck from the edges thereof adapted to join said member at the juncture between said flat portion and said oval shaped portions, said ears being adapted to extend substantially at right-angles with respect to said flat portion, said flat portion being adapted to be disposed on the upper side of the joists whereby the sides of said joists may be engaged by said ears, said flat portion having an opening therein through which a securing element may be extended, and substantially flat portions at the free ends of said oval shaped portions adapted to extend at an angle

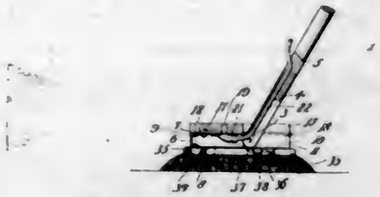
with respect to said oval shaped portions, said last named flat portions having openings provided therein through which securing elements may be extended whereby said member may be secured to the sides of joists juxtaposed said first named joist.

1,685,730. GUN. GEORGE W. TIPPETTS, Spanish Fork, Utah. Filed June 28, 1926. Serial No. 119,152. 1 Claim. (Cl. 124—14.)



A toy gun comprising a barrel and a stock, and said barrel having its upper edge grooved throughout the length thereof, and merging, at its inner end into a slightly inclined shoulder, and the groove for a short distance from said shoulder being beaded, an elastic element having its ends fixed on the sides of the barrel and carrying a button to be received on the shoulder, said gun, in a line with the shoulder having a round opening therethrough and the shoulder having a central notch extending therethrough in a line with the outer wall provided by the opening, and a cross sectionally rounded pin designed to be received through the opening and the notch to contact with the button when the latter rests on the shoulder and an arched flexible guard having its ends secured to the gun and to which the pin is centrally connected.

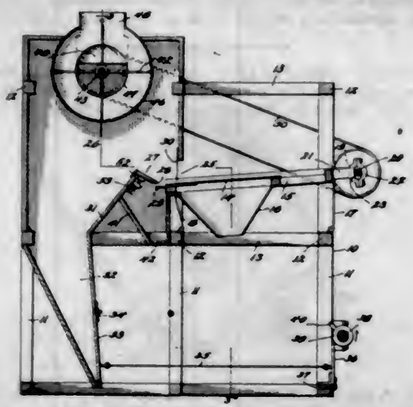
1,685,731. MOP. CLAIR TREVENA, Bellevue Hill, near Sydney, New South Wales, Australia. Filed Mar. 3, 1927, Serial No. 172,512, and in Australia Apr. 6, 1926. 1 Claim. (Cl. 15—124.)



In combination, a substantially V-shape frame comprising a pair of flat spaced apart plates having aligned slots at their rear ends, a pair of spacing bars between the plates adjacent the aligned slots, a fluid inlet nozzle located in the space formed between the plates in advance of the aligned slots, a spacing bar between the forward ends of the plates, a pad corresponding to the shape of the plates, said pad having an opening registering with the nozzle, a handle supported on a pivot mounted in the spacing bars and extending across the plane of the aligned slots, and means carried by the handle to supply fluid to the nozzle.

1,685,732. SEPARATOR FOR CORNCOBS AND THE LIKE. CHARLES C. TRUAX, Columbus, Ohio. Filed Oct. 21, 1924. Serial No. 744,963. 7 Claims. (Cl. 209—35.)

1. An apparatus for separating shelled corn, husks and the like particles from corn cobs, comprising in combination, a vibratory sieve for separating the shelled corn, a chamber arranged at the tail end of said sieve and having an opening through which the remaining material passes from said sieve into the chamber, an upwardly directed incline arranged in said chamber adjacent said opening and the tail end of said sieve so that the cobs are required to pass upwardly over the same upon entering the chamber, a settling chamber into which the upper end of the incline delivers, and means for creating



a forced draft up said incline to lift the cobs over the same to permit them to drop into the settling chamber and to simultaneously draw off the husks and like particles.

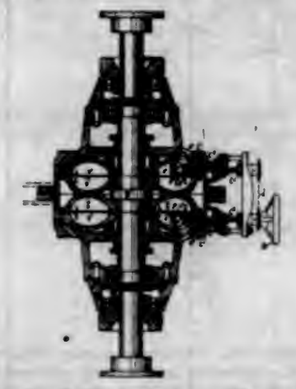
1,685,733. METHOD FOR PURIFYING GASES. GEORG FRIEDRICH UHDE, Bovinghausen, Germany. Original application filed Feb. 6, 1926, Serial No. 86,635, and in Germany Feb. 9, 1925. Divided and this application filed Apr. 15, 1926. Serial No. 102,305. 3 Claims. (Cl. 23—2.)

1. The process of purifying gases which comprises intimately contacting the gas to be purified with alkali forming metals dissolved in amides of alkali forming metals.

1,685,734. METHOD FOR SYNTHETICALLY PRODUCING AMMONIA. GEORG FRIEDRICH UHDE, Bovinghausen, Germany. Filed May 28, 1926, Serial No. 112,409, and in Germany June 4, 1925. 3 Claims. (Cl. 23—198.)

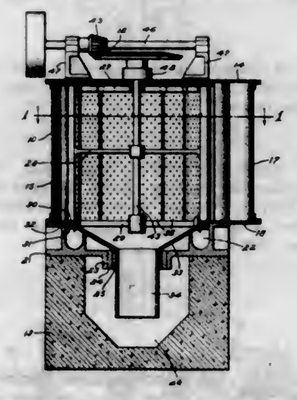
1. In the process of synthetically producing ammonia, the step which comprises contacting the ammonia forming gases with a catalyst comprising the dried reaction product of a complex alkali metal iron cyanide compound with a hydrolizable metal salt.

1,685,735. HYDRAULIC DYNAMOMETER. GEORGE HENRY WALKER, Worcester, England, assignor to Heenan & Froude Limited, Worcester, England. Filed Mar. 31, 1927, Serial No. 180,019, and in Great Britain Sept. 1, 1926. 5 Claims. (Cl. 188—90.)



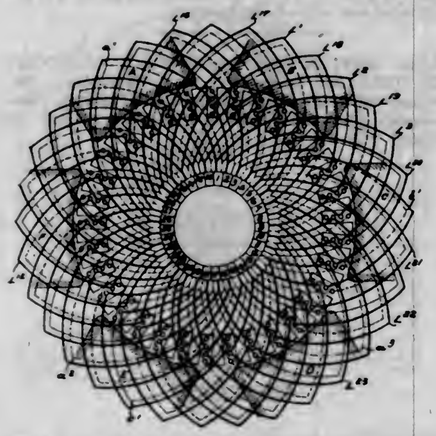
1. In a hydraulic dynamometer of the type referred to having pockets formed between the vanes of the stator and rotor the combination with said vanes of depth controlling devices arranged in said pockets and means for moving said devices radially, whereby the radial depth of water forming the vortex in the pockets can be positively regulated independently of the rate of supply of water to the pockets.

1,685,736. MACHINE FOR PAPER-MAKING PROCESSES. HAROLD D. WELLS, Glens Falls, N. Y. Filed Sept. 9, 1927. Serial No. 218,534. 6 Claims. (Cl. 92—36.)



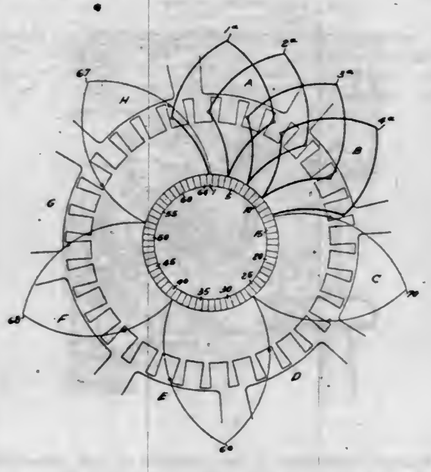
1. In a machine of the class described, a casing for the stock, a rotor arranged within the casing, said rotor being of hollow construction, closed at the top and having an outlet at the bottom, said rotor having a perforated side wall which serves as a filtering means, and said rotor having sealing strips adapted to move in contact with the side walls of said casing.

1,685,737. DYNAMO-ELECTRIC MACHINE AND WINDING THEREFOR. GEORGE M. ALBRECHT, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed June 5, 1926. Serial No. 113,904. 20 Claims. (Cl. 171—206.)



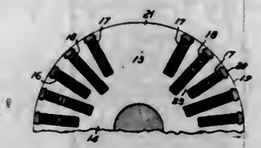
14. A winding for a multipolar dynamo-electric machine having an odd number of pairs of poles, including a lap type winding reentrant an even number of times, and a wave type winding interconnected with said lap winding.

1,685,738. DYNAMO-ELECTRIC MACHINE AND WINDING THEREFOR. GEORGE M. ALBRECHT, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 6, 1926. Serial No. 120,573. 14 Claims. (Cl. 171—206.)



6. A winding for a multipolar dynamo-electric machine, including a multiply reentrant lap type winding reentrant an odd number of times, and a wave type winding interconnected with said lap winding.

1,685,739. ROTOR FOR DYNAMO-ELECTRIC MACHINES. ARTHUR J. BROWN, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 18, 1921. Serial No. 485,652. 6 Claims. Cl. 171—252.)



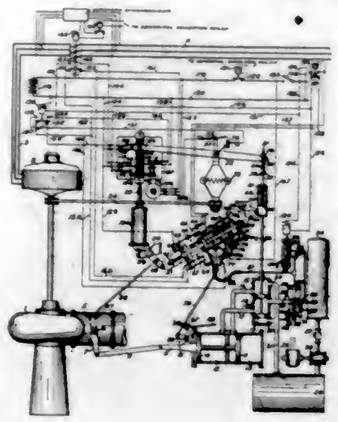
1. In a dynamo-electric machine, a rotor comprising a core provided with radially extending peripheral slots of substantially the same width and different depths, and a winding disposed in said slots, adjacent slots containing different total cross-sectional areas of said winding, and winding elements in one slot being connected in series relation with winding elements in the adjacent slot.

1,685,740. PRIME-MOVER DYNAMO PLANT. RALPH H. EARLE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed June 18, 1924. Serial No. 720,721. 42 Claims. (Cl. 290—7.)

1. In combination, a prime mover, means for automatically starting said prime mover including, a gate, means for initially causing said gate to admit operating fluid to said prime mover, and means for again closing said gate if predetermined abnormal conditions involving the starting operations obtain.

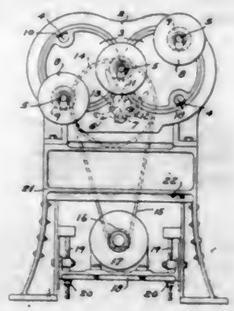
13. In a system for antomatically starting a prime mover having a gate for admitting operating fluid thereto, a generator driven by said prime mover, means for connect-

ing said generator to a distribution system, means for operating said gate, means for predetermining the maximum gate opening during a portion of said starting period,



and means responsive to the operation of said connecting means for changing the predetermined maximum gate opening.

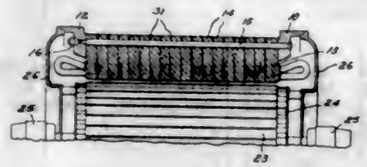
1,685,741. CANDY-PULLING MACHINE. WALTER GEIST, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 22, 1925. Serial No. 51,796. 14 Claims. (Cl. 107—30.)



3. In combination, a pair of rotary disks, a roller movable by and periodically transferable from one of said disks to the other, a support carried by said roller, and a pin carried by said support, said pin being freely removable from said support.

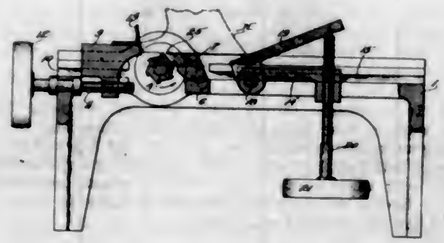
1,685,742. CORE FOR ELECTRICAL APPARATUS. EDGAR C. GEORGE, Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 27, 1926. Serial No. 157,043. 11 Claims. (Cl. 171—252.)

2. In a core for electrical apparatus, assembled core laminæ provided with circumferentially spaced peripheral enlargements, enlargements on several laminæ being axially alined, thin spacers between the peripheral enlargements of certain adjacent ones of said laminæ, and clamping means for said laminæ associated with the peripheral enlargements of said laminæ and said spacers and effective to clamp said laminæ in assembled condition with a



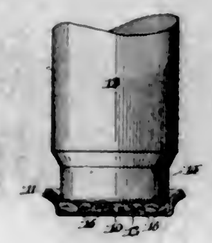
less degree of compression between the normal flux-carrying portions of said laminæ than between the peripheral enlargements thereof.

1,685,743. HEEL-DROPPING MACHINE. NICHOLAS LEWIS GUILFORD, Peabody, Mass., assignor to Gregory & Read Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 17, 1924. Serial No. 744,282. 11 Claims. (Cl. 12—46.)



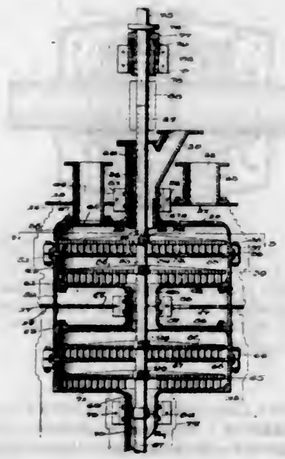
1. A heel dropping mechanism comprising a cutter; a work rest adjacent said cutter occupying a fixed and immovable position with relation to the latter, and heel engaging means adjacent said work rest for tilting the heel to cause the cutter to engage the breast end portion of the heel seat of a heel and bevel the same when the heel is slid on said work rest toward said means.

1,685,744. BOTTLE SEAL AND METHOD OF FINISHING THE SAME. JACKSON O. HAAS, Philadelphia, Pa.; Gertrude M. Haas executrix of said Jackson O. Haas, deceased. Filed Dec. 18, 1926. Serial No. 155,643. 12 Claims. (Cl. 215—39.)



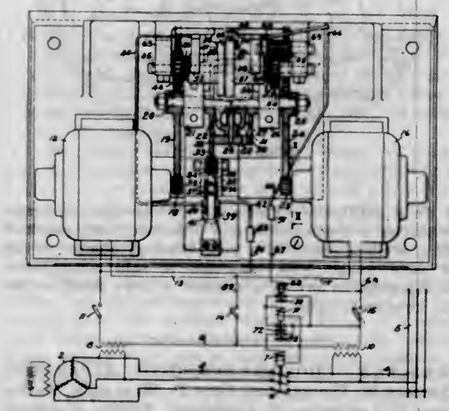
1. A cork seal having its surface abraded and its pit holes or pores stopped with the pulverulent cork resulting from the abrasive action.

1,685,745. REVIVIFYING FURNACE. JOSEPH HUNT HOLT, Wilmington, Del., assignor to Darco Corporation, Wilmington, Del., a Corporation of Delaware. Filed Feb. 14, 1927. Serial No. 168,194. 5 Claims. (Cl. 263—26.)



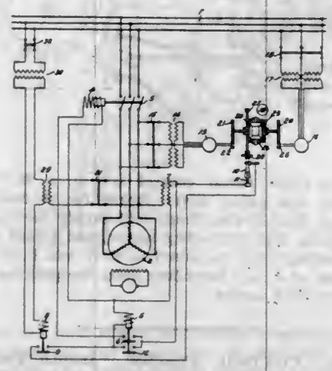
1. Apparatus for the revivification of decolorizing carbon or the like comprising a plurality of metallic cylinders of relatively large diameter, connecting portions of materially less diameter extending between the cylindrical portions, hearths formed with apertured portions disposed within the cylinders, and stirring means positioned within the cylinders adjacent the hearths.

1,685,746. SYSTEM OF DISTRIBUTION. HENRY V. NYE, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 1, 1924. Serial No. 753,229. 12 Claims. (Cl. 171—118.)



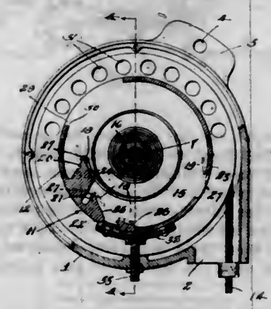
1. In a system of alternating current distribution, an alternating current generator, means responding to the frequency of said generator, means responding to the frequency of said system, means differentially responsive to both said frequency responsive means, additional means effectively actuated by said frequency responsive means in response to substantial equality of phase thereof, and means for connecting said generator to said distribution system in response to effective joint actuation of said differentially responsive means and said phase responsive means.

1,685,747. SYSTEM OF DISTRIBUTION. HENRY V. NYE, West Allis, Wis., assignor to Allis-Chalmers Company, Milwaukee, Wis., a Corporation of Delaware. Filed Mar. 3, 1924. Serial No. 696,487. 14 Claims. (Cl. 171—118.)



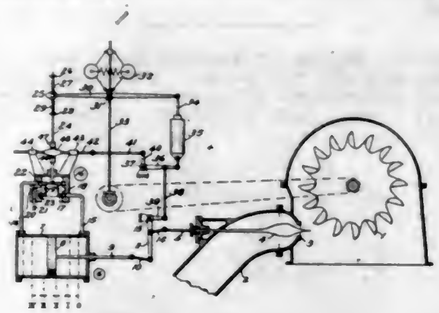
3. In a system of A. C. distribution, an A. C. generator, a synchronous motor fed by said generator, another synchronous motor fed by said distribution system, differential gearing driven by said motor, means for actuating an electrical contact in response to said gearing when the speed of said first named motor is a predetermined amount less than that of said second named motor, and means whereby said contact is maintained in its actuated position as long as the speed of said first named motor remains above said speed required for said actuation of said contact.

1,685,748. COUNTERBALANCING DEVICE. HAROLD G. PEDERSON, Syracuse, N. Y. Filed Dec. 30, 1924. Serial No. 758,857. 7 Claims. (Cl. 242—98.)



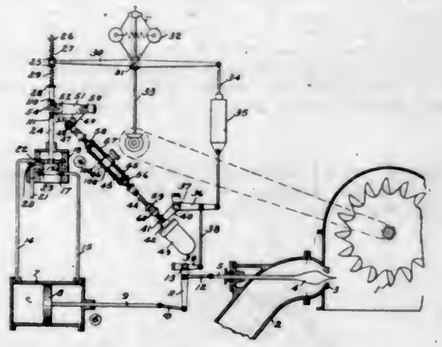
1. In a counter-balancing device, the combination of a case, a shaft mounted therein, a reel mounted on the shaft, a coil spring having one end secured to the frame and its other end anchored to the reel and a load supporting cable winding on the reel, the reel having means located different distances from the axis of the reel for attaching the outer end of the spring thereto.

1,685,749. CONTROL SYSTEM. ARNOLD PFAU, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 8, 1924. Serial No. 754,538. 12 Claims. (Cl. 121—42.)



1. In a prime mover control system, a fluid supply means for said prime mover, means for controlling the amount of fluid flowing from said supply means, means for operating said controlling means, and means whereby said operating means is caused to move said fluid controlling means at a rate dependent upon the position of said fluid controlling means.

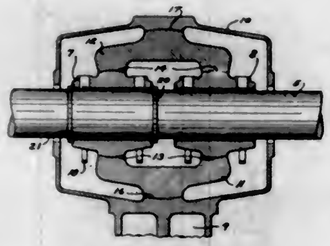
1,685,750. CONTROL SYSTEM. ARNOLD PFAU, Milwaukee, and BENJAMIN GROB, West Allis, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 26, 1924. Serial No. 758,277. 24 Claims. (Cl. 121—42.)



1. In a control system, a device to be moved, means for transmitting force to move said device, means for operating said force transmitting means, and means including means positioned in accordance with said operating means for causing said operating means to apply a predetermined maximum impulse to said transmitting means and to then cause the latter means to move at a rate dependent upon the position of said latter means.

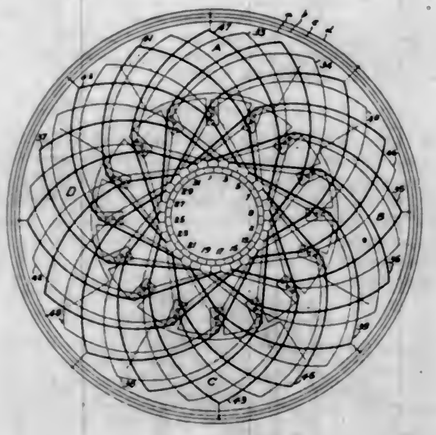
1,685,751. BEARING. ARNOLD PFAU, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 19, 1925. Serial No. 3,272. 2 Claims. (Cl. 308—72.)

1. In combination with a horizontal shaft which is subjected to lateral end loads and an intermediate load, of bearings coacting with said shaft between said intermediate load and each of said end loads, each of said bearings comprising a pair of independent longitudinally tiltable bearing elements coacting with said shaft directly adjacent to each other and a support formed to



permit relative vertical displacement of said adjacent elements, and means for preventing longitudinal displacement of said shaft in either direction relative to one of said elements of each bearing.

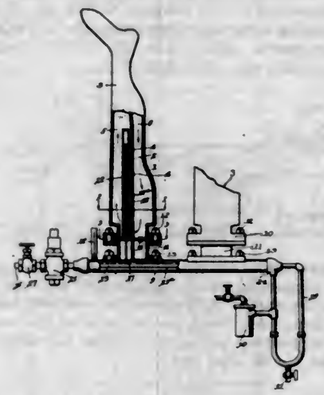
1,685,752. DYNAMO-ELECTRIC MACHINE AND WINDING THEREFOR. WILLIAM H. POWELL, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 29, 1926. Serial No. 125,666. 8 Claims. (Cl. 171—206.)



2. In a multipolar dynamo-electric machine, an armature having a commutator, said armature being provided with a winding including a predetermined number of lap and wave wound coils connected to said commutator, said commutator having a number of bars equal to the total number of coils.

1,685,753. HOSIERY-FINISHING APPARATUS. THOMAS W. PROSSER and JOHN H. WAHLBECK, Kankakee, Ill., assignors to Paramount Textile Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed May 6, 1926. Serial No. 107,165. 9 Claims. (Cl. 223—17.)

1. A drying-structure including a drying-form hollow to contain a secondary heating agent adapted to impart heat through its walls to hosiery superposed thereon, a conduit for containing a primary heating agent operatively connected to and in communication with the interior of the form, and an extension of the conduit extending into the form for conveying the primary heating



agent from the conduit into the form to heat the walls of the extension and thereby heat the secondary heating agent in the form.

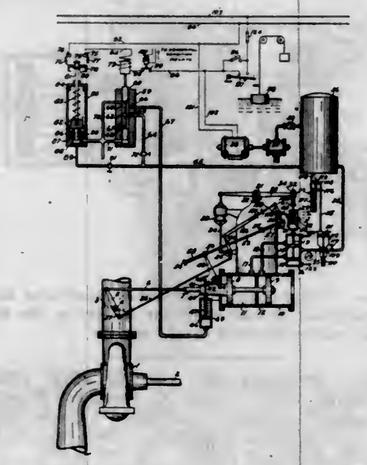
1,685,754. METHOD OF RECOVERING SULPHUR DIOXIDE FROM WASTE GASES. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed July 14, 1923. Serial No. 651,591. 2 Claims. (Cl. 23—178.)

1. A process which comprises discharging the hot digested contents of a sulphite digester into a blowpit, passing the hot sulphur dioxide and vapors liberated in the blowpit in direct contact with and in counter-flow to cold water supplied in amount so that the largest fraction of sulphur dioxide is cooled without being absorbed and passes on in a cooled condition for absorption while a substantial recoverable fraction is absorbed and remains in solution in the resulting hot effluent water; and recovering the sulphur dioxide from the hot effluent water.

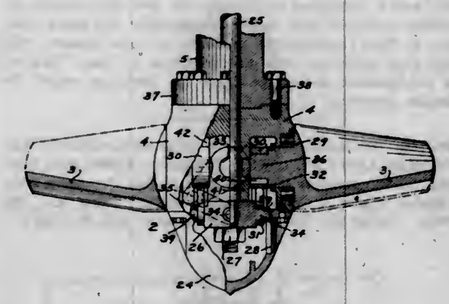
1,685,755. CONTROL SYSTEM FOR PRIME MOVERS. JOSEPH J. RING, Milwaukee, and CARL SCHINDLER, West Allis, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 22, 1923. Serial No. 682,212. 38 Claims. (Cl. 137—158.)

1. In combination, a prime mover, means for controlling the admission of operating fluid to said prime mover, a governor, responsive to the speed of said prime mover, for said controlling means, including a servo-motor and a regulating valve therefor, means for holding said regulating valve in a position corresponding to the closed position of said controlling means, means for releasing said holding means including a fluid pressure operated device, an electromagnetically operated valve for controlling said fluid pressure operated device, a source of fluid under pressure including an electrically operated pump, means responsive to said fluid under pressure for controlling said electromagnetically operated valve, and means responsive to a predetermined condition for controlling said electromagnetically operated pump and said electromagnetically operated valve.

15. In combination, a prime mover, means for controlling the admission of operating fluid to said prime mover, a fluid pressure operated motive device for operating said admission controlling means, a source of supply of fluid under pressure other than said operating fluid, a connection between said source and said motive device, a regulating valve for controlling the movements of said motive device interposed in said connection, a shut-off valve interposed in said connection between said regulating valve and said source, and means responsive to the fluid pressure of said source for causing said shut-off valve to close at a predetermined minimum pressure.



1,685,756. ROTOR. JOSEPH J. RING, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed June 3, 1926. Serial No. 113,398. 5 Claims. (Cl. 253—148.)

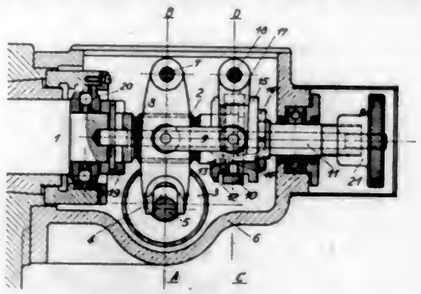


1. In combination, a hub having a chamber therein, a cap normally enclosing said chamber, said cap having guideways therein, a plurality of vanes pivotally associated with said hub, a block movable within said cap, rollers for guiding said block along said guideways, and motion transmitting mechanism connecting said block and said vanes.

1,685,757. CIRCULAR GRINDING MACHINE. WALTER STORCK, Berlin-Halensee, Germany, assignor to Ludw. Loewe & Co. Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed Mar. 5, 1926, Serial No. 92,437, and in Germany Sept. 4, 1925. 5 Claims. (Cl. 51—34.)

1. In a circular grinding machine or the like, a machine frame, a reciprocable grinding wheel spindle mounted therein, a lever pivotally mounted in said machine

frame, means operatively connected to said spindle and engaging said lever for imparting oscillating movement thereto, and means transferring oscillating movement of



said lever to said spindle, said means comprising adjustable mechanism on said shaft for regulating the extent of the movement imparted to said spindle.

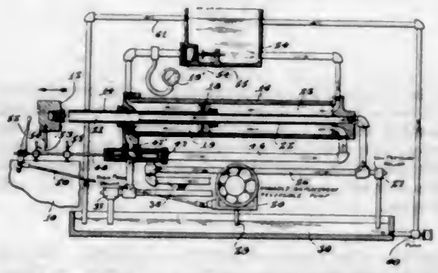
1,685,758. PREPARATION OF BETAINE HYDROCHLORIDE, ETC. DONALD K. TRESSLER, Pittsburgh, Pa., assignor to Larrowe Construction Company, Detroit, Mich., a Corporation of Michigan. Filed July 13, 1925. Serial No. 43,396. 8 Claims. (Cl. 260—112.)

1. The method of treating concentrated residual liquors of beet molasses which comprises adding a mineral acid and a soluble chloride to the concentrated liquors.

1,685,759. DIFFUSION REACTION. HANS WALTER, Mainz-Mombach, Germany, assignor to Verein für Chemische Industrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation. Filed May 1, 1926, Serial No. 106,103, and in Germany May 22, 1924. 3 Claims. (Cl. 260—116.)

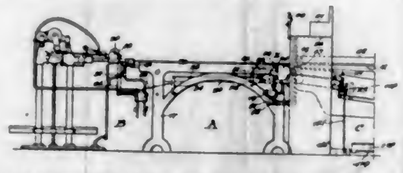
1. The art of causing reactions between different gases or mixtures of gases that react but slowly in simple mixtures, which comprises separating the two gas volumes by a porous partition and under substantially the same pressures, so that the diffusion tendency of both volumes will cause their entrance into the partition to react therein, and the product to emerge from the partition under its diffusion pressure.

1,685,760. HYDRAULIC DRIVE FOR BROACHING MACHINES AND THE LIKE. DONALD H. WEST, New London, Conn., assignor to The J. N. Lapointe Company, New London, Conn., a Corporation of Maine. Filed Mar. 26, 1924. Serial No. 702,054. 22 Claims. (Cl. 60—52.)



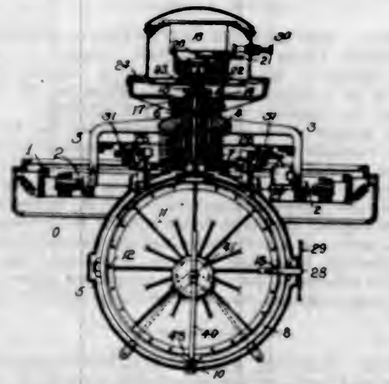
1. A hydraulic drive for a reciprocating element, having in combination, a pump, having a predetermined output; a cylinder with piston, constituting an expansible chamber; a rod extending through the chamber, rigidly connecting the piston to the said reciprocating element and arranged to pull said element on the working stroke; and a cylinder of smaller cross section than the net cross section of the said chamber through which said rod extends, said smaller cylinder being arranged to effect the return stroke, whereby for the same predetermined pump output the return is more rapid.

1,685,761. INSPECTING APPARATUS. ALBERT BROADMEYER, Harrisburg, Pa., assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1926. Serial No. 105,173. 48 Claims. (Cl. 214—11.)



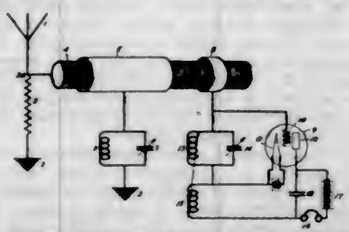
2. In apparatus of the character set forth, the combination with a supporting frame, of a plurality of lamps located therein, endless carrier belts operating over said lamps, an automatic feeder delivering to the belts at one end, and means for supporting an inspector above the carrier belts and adjacent to the other end.

1,685,762. LATITUDE INDICATOR. ERIC C. SPARLING, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed June 27, 1925. Serial No. 39,926. 5 Claims. (Cl. 33—204.)



1. A latitude indicator, comprising a gyroscope, means for mounting the same in neutral equilibrium for oscillation about a horizontal axis and for turning about a vertical axis, a repeater compass, and yielding means supporting said gyroscope from said repeater compass for applying a torque about the vertical axis of the gyroscope.

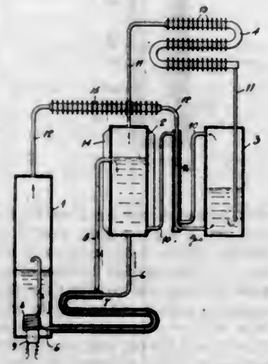
1,685,763. RADIO RECEIVING SYSTEM. LOUIS COHEN, Washington, D. C. Filed May 11, 1923. Serial No. 638,257. 2 Claims. (Cl. 250—20.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. In a radio receiving signalling system wherein the signals are received on a high resistance untuned antenna

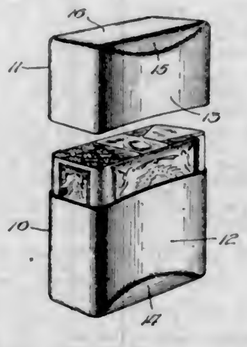
circuit, means for transmitting the effect produced on the said antenna to a wave coil electrically associated with said antenna, an indicating instrument electrically associated with the said wave coil for detecting said signals.

1,685,764. REFRIGERATOR. BALTZAR CARL VON PLATEN and CARL GEORG MUNTERS, Stockholm, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation, a Corporation of Delaware. Filed Oct. 1, 1925, Serial No. 59,907, and in Sweden Apr. 20, 1925. 14 Claims. (Cl. 62—178.)



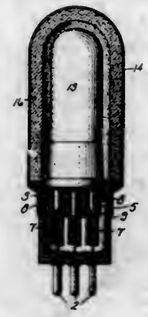
1. Method of refrigerating which comprises evaporating a condensable cooling agent in the presence of a non-condensable gas; absorbing the non-condensable gas in absorption liquid and separating the cooling agent; condensing the cooling agent; heating the absorption liquid to separate therefrom the non-condensable gas; and again evaporating the cooling agent in the presence of the non-condensable gas.

1,685,765. CIGARETTE-PACKAGE HOLDER. MICHAEL J. MANGAN, Des Plaines, Ill. Filed Nov. 30, 1923. Serial No. 677,599. 2 Claims. (Cl. 206—41.)



1. A cigarette holder comprising in combination a resilient body section open at one end only, and adapted to accommodate a package of cigarettes, the side walls being concave to yieldingly grip said package intermediate their vertical corners, and a resilient metal cover section adapted to fit over and to grip said body section near the vertical corners thereof, said cover having a bulged out portion having transverse edges to afford a grasping surface when pulling said sections apart.

1,685,766. SUPPORT FOR VACUUM TUBES. JAMES H. MOSHER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 2, 1926. Serial No. 113,321. 2 Claims. (Cl. 250—27.5.)



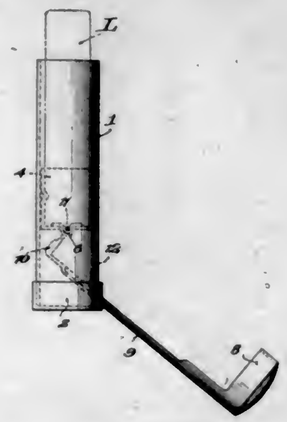
1. In combination, a cup-shaped member provided with a plurality of projecting terminals, a socket flexibly mounted in said member and adapted to support an electric discharge device, means electrically connecting said socket and terminals, and a cap mounted on the cup-shaped member and adapted to substantially enclose said electric discharge device, said cap being provided with means adapted to substantially prevent transmission of vibrations therethrough.

1,685,767. ADAPTER FOR VACUUM TUBES. CLARK R. PHIFFER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 23, 1926. Serial No. 124,503. 3 Claims. (Cl. 173—344.)



1. In combination, a cup-shaped member provided with a plurality of projecting terminals, a socket adapted to support an electric discharge device, said socket being spaced from and flexibly supported in said cup-shaped member and provided with a plurality of openings, contacts mounted in said openings and electrically connected to said terminals, and means independent of said flexible support for limiting the longitudinal movement of the socket member when a discharge device is inserted in or withdrawn from the socket.

1,685,768. LIP-STICK HOLDER. ARTHUR H. NOBLE, Pawtucket, R. I., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Filed Dec. 10, 1926. Serial No. 153,814. 2 Claims. (Cl. 206—56.)



2. In a lip stick holder, a slotted body having a slotted closure on one end thereof which slots register, a lip stick carrier slidable in the body, a closure slidable on the opposite end of the body and having an arm formed with a slot, said arm being slidable in said slots, and means to hingedly connect the arm to the carrier.

1,685,769. LIP-STICK HOLDER. ARTHUR H. NOBLE, Pawtucket, R. I., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Filed Dec. 10, 1926. Serial No. 153,815. 2 Claims. (Cl. 206—56.)



2. In a lip stick holder, a tubular body having a closed end, an open end and a longitudinal slot, a closure for the open end slidable on the body, a lip stick carrier slidable in the body, an arm carried by the closure and a connection between the arm and carrier extending through the slot and secured to a side of the carrier and hingedly mounting the arm, said slot terminating adjacent to the open end of the body and having said terminal engageable with the connection to limit outward movement of the carrier.

Pharmaceutical products. W. Schoeller, A. Feldt, M. Gehrke, and E. Borgwaldt. 1,685,342; Sept. 25.
Phonograph. D. D. Mounts. 1,685,433; Sept. 25.
Phonograph and radio apparatus, Combined. J. W. Bishop. 1,685,394; Sept. 25.
Photographs, Production of colored. W. F. Fox. 1,685,281; Sept. 25.
Pipe connection. G. Egloff and H. P. Benner. 1,685,483; Sept. 25.
Pitcher or similar article. R. E. McEldowney. Des. 76,409; Sept. 25.
Placard and holder therefor. W. K. Auchincloss. 1,685,080; Sept. 25.
Planning stormproof zones around or through wood districts. E. Stock. 1,685,343; Sept. 25.
Planter attachment, Cotton-. O. E. Morris, G. E. Crumrine, and W. Grounds. 1,685,554; Sept. 25.
Plaster board, Reenforced. C. O. Walper. 1,685,254; Sept. 25.
Plastic compounds, Manufacture of. G. E. Zelger. 1,685,443–4; Sept. 25.
Plate. E. L. Schnepf. Des. 76,426; Sept. 25.
Plate or similar article. W. H. Tams. Des. 76,433; Sept. 25.
Playing skittles, Apparatus for. J. Krauth. 1,685,699; Sept. 25.
Plow, Hillside. C. W. Ladd. 1,685,365; Sept. 25.
Plow, Self-leveling wheeled. J. H. Groenke. 1,685,321; Sept. 25.
Plow, Tractor. B. R. Benjamin. 1,685,267; Sept. 25.
Plug, Electric attachment. G. Lipschutz. 1,685,608; Sept. 25.
Plug, Flashing. N. Abramson. 1,685,515; Sept. 25.
Pot: *See*—
Tinning pot.
Potato digger. T. Giberson. 1,685,230; Sept. 25.
Pouch, Game. J. W. Rich. 1,685,243; Sept. 25.
Power transmission. C. R. Nichols. 1,685,371; Sept. 25.
Preparation of fur for shrinking and felting. J. H. Martin. 1,685,168–9; Sept. 25.
Preparing spinach and the like for canning. W. E. Thomas. 1,685,511; Sept. 25.
Press: *See*—
Printing press.
Press for drawing sheet metal. G. W. Berry. 1,685,308; Sept. 25.
Pressure-responsive instrument of the Bourdon spring type. D. C. Lamb. 1,685,457; Sept. 25.
Printed fabric. J. H. Gardner. Des. 76,387; Sept. 25.
Printing press. L. H. Morse. 1,685,611; Sept. 25.
Pulley, Magnetic. P. J. McCullough. 1,685,498; Sept. 25.
Pump, Gyratory. J. O. Carrey. 1,685,397; Sept. 25.
Pump, Sand. R. B. Welsh. 1,685,619; Sept. 25.
Punch and the like, Hand. J. Jensen. 1,685,604; Sept. 25.
Purification. C. E. Andrews. 1,685,624; Sept. 25.
Purification of benzoic acid and its derivatives. A. O. Jaeger. 1,685,634; Sept. 25.
Purifying gases. G. F. Uhde. 1,685,733; Sept. 25.
Puzzle, Flexible cord or strip. E. L. Farrow. 1,685,400; Sept. 25.
Radiator cap, Automobile. N. E. Johnson. 1,685,405; Sept. 25.
Radiocabinet. I. A. Lund. Des. 76,408; Sept. 25.
Radiocabinet or similar article. M. Stettner. Des. 76,430–1; Sept. 25.
Radio receiving system. L. Cohen. 1,685,763; Sept. 25.
Rail clamp. A. Trosch. 1,685,468; Sept. 25.
Rail joint. A. L. Collins, sr. 1,685,704; Sept. 25.
Railway tie, rail fastener, and rail joint. J. C. Pope. 1,685,337; Sept. 25.
Raising and locating submerged vessels, Apparatus for. T., T. R. W., and R. Hodges. 1,685,540; Sept. 25.
Rake and binding apparatus, Combined. M. Jeanson. 1,685,163; Sept. 25.
Reaming smoking pipes, Apparatus for. H. M. Johnson. 1,685,087; Sept. 25.
Receptacle. F. H. Doerr. 1,685,276; Sept. 25.
Reconditioning mineral oils, Process and apparatus for. C. J. Rodman. 1,685,681; Sept. 25.
Recording system. G. F. Davis. 1,685,667; Sept. 25.
Recovering sugar values. R. C. Campbell. 1,685,118; Sept. 25.
Refrigerating apparatus. G. T. Smiley, and W. R. Ohse. 1,685,505; Sept. 25.
Refrigerating apparatus, Absorption. A. Richter. 1,685,340; Sept. 25.
Refrigerator. B. C. von Platen and C. G. Munters. 1,685,764; Sept. 25.
Refrigerator and installation construction therefor. O. Strufe. 1,685,248; Sept. 25.
Regulating temperature. J. L. Shroyer. 1,685,647; Sept. 25.
Regulator: *See*—
Voltage regulator.
Rethreader for screens. H. Dixson. 1,685,522; Sept. 25.
Revivifying furnace. J. H. Holt. 1,685,745; Sept. 25.
Rheostat. T. B. Moorer. 1,685,714; Sept. 25.
Rheostat construction. D. Wald. 1,685,579; Sept. 25.
Ring: *See*—
Molding ring.
Ripping unit for metal cans. A. L. Combes and H. M. Keyser. 1,685,312; Sept. 25.
Road-building machine. H. F. Thompson. 1,685,687; Sept. 25.
Roadway, Reenforced-concrete. B. Briody. 1,685,562; Sept. 25.
Rod: *See*—
Stair rod.
Roof. W. R. Tobias. 1,685,559; Sept. 25.
Roofs, Valley, hip, and ridge construction for. F. Dow. 1,685,524; Sept. 25.
Roofing strip. H. G. Kelly. 1,685,493; Sept. 25.
Rotor. J. J. Ring. 1,685,756; Sept. 25.
Rotor for dynamo-electric machines. A. J. Brown. 1,685,739; Sept. 25.
Roundabout. A. W. Bryngelson. 1,685,627; Sept. 25.
Rule, Carpenter's. A. G. Graham. 1,685,486; Sept. 25.
Safety hanger, Brake-beam. J. Wilson. 1,685,474; Sept. 25.
Safety installation for grade crossings. T. E. Clark. 1,685,480; Sept. 25.
Salt, Manufacturing complex hydrofluoric. M. Buchner. 1,685,628; Sept. 25.
Salts of organic compounds, Manufacture of solid alkali-metal. K. Dobmaier. 1,685,191; Sept. 25.
Sand cutting, screening, and piling machine. E. A. Rich, jr. 1,685,139; Sept. 25.
Sash, Ventilating. C. A. Christianson. 1,685,311; Sept. 25.
Saturator. F. W. Adams. 1,685,078; Sept. 25.
Saw and square, Combination. A. A. Neilson. 1,685,721; Sept. 25.
Saw machine, Reciprocating-. C. A. Moran. 1,685,239; Sept. 25.
Sawing device. P. L. Billingsley. Re17,087; Sept. 25.
Saxophone. A. J. Hilton. 1,685,129; Sept. 25.
Scaffold jack, Adjustable. L. Bash. 1,685,445; Sept. 25.
Scale, Station. S. Loewe. 1,685,426; Sept. 25.
Scalper. J. J. Varusky. 1,685,512; Sept. 25.
Scarifier tooth. C. E. Gilbert. 1,685,196; Sept. 25.
Scraper. O. Fanberg. 1,685,399; Sept. 25.
Scraper. J. H. Hale. 1,685,487; Sept. 25.
Scraper. C. H. White. 1,685,385; Sept. 25.
Screen for vehicle window frames. H. H. Hager. 1,685,587; Sept. 25.
Screening fluids, Method and apparatus for. F. L. Allen. 1,685,621; Sept. 25.
Scrubbing machine, Floor-. W. S. Finnell. 1,685,485; Sept. 25.
Seal and finishing the same, Bottle. J. O. Haas. 1,685,744; Sept. 25.
Seal for instrument cases. C. T. Wallis. 1,685,580; Sept. 25.
Seal, Liquid. H. V. Atwell. 1,685,516; Sept. 25.
Seat: *See*—
Foldable seat.
Segregator, Spurious-coin. J. H. Mann, jr. 1,685,551; Sept. 25.
Separating liquid from pulp fibers, Apparatus for. J. T. Hoyt. 1,685,084; Sept. 25.
Separation of materials of different specific gravities. T. M. Chance. 1,685,521; Sept. 25.
Separator: *See*—
Ore separator.
Separator for corncobs and the like. C. C. Truax. 1,685,732; Sept. 25.
Shaping machine with variable-power traverse. W. F. Zimmermann. 1,685,659; Sept. 25.
Shelf strip. J. Koch. 1,685,456; Sept. 25.
Shock absorber. G. C. Martin. 1,685,497; Sept. 25.
Shock-absorbing handpiece. L. E. Evslin. 1,685,670; Sept. 25.
Shock-absorbing mechanism. J. F. O'Connor. 1,685,176; Sept. 25.
Shoe-pressing machine. E. E. Winkley and F. V. Hart. 1,685,387; Sept. 25.
Shoe-shining stand. J. Silverman. 1,685,648; Sept. 25.
Shoe sole. L. M. Oakley. Des. 76,411; Sept. 25.
Short circuiter. E. P. Larsh. 1,685,549; Sept. 25.
Shower, Attachable. J. C. Sheller. 1,685,180; Sept. 25.
Sign. J. F. Fisher. Des. 76,385; Sept. 25.
Sign. H. G. Russell. Des. 76,422; Sept. 25.
Signal: *See*—
Direction-indicating signal. Tire-deflation signal.
Silk, Method and apparatus for making artificial. J. M. Leaver. 1,685,640; Sept. 25.
Sizing apparatus. E. A. White. 1,685,207; Sept. 25.
Sizing frame, Rug-. A. L. Stewart. 1,685,689; Sept. 25.
Sleeve assembly for valve stems, piston rods, spindles, plungers, and the like. C. V. Foulds. 1,685,418; Sept. 25.
Slicing machine. P. Abalsamo. 1,685,184; Sept. 25.
Slicing machine. W. J. Campbell. 1,685,271–2; Sept. 25.
Smoker's receptacle. B. Putterman. Des. 76,417; Sept. 25.
Smoking stand. J. Koster. Des. 76,401; Sept. 25.
Snap hook. H. St. Pierre. 1,685,201; Sept. 25.
Socket, Drapery-pole. R. H. Vermillion. Des. 76,439; Sept. 25.
Socket flasher. N. Abramson. 1,685,514; Sept. 25.
Socket wrench. E. M. Pfauser. 1,685,503; Sept. 25.
Sole for boots and shoes. A. A. Glidden and T. M. Knowland. 1,685,538; Sept. 25.
Sorting and stacking biscuits and other articles, Apparatus for. J. C. Paterson and G. R. Baker. 1,685,335; Sept. 25.
Spectacles. E. E. Emons. 1,685,192; Sept. 25.
Spectacles. F. A. Rowe. 1,685,725; Sept. 25.
Speed reducer. D. E. Washington. 1,685,256; Sept. 25.

Speed-regulating mechanism. H. L. Tanner. 1,685,440. Sept. 25.
Spider having mechanically-operated pipe slips. J. A. Harding. 1,685,284; Sept. 25.
Spoon or similar article. A. K. Hobson. Des. 76,394; Sept. 25.
Spot-setting machine, Automatic. W. Scheuer. 1,685,504; Sept. 25.
Spring-forming machine. T. F. Buckley. 1,685,415; Sept. 25.
Spring-inserting mechanism. J. E. Gail. 1,685,566; Sept. 25.
Sprinkler: *See*—
Track sprinkler.
Sprinkler. J. H. Keys. 1,685,165; Sept. 25.
Stair rod. C. Muentener. 1,685,679; Sept. 25.
Stanchion bracket. A. Mendez. 1,685,135; Sept. 25.
Stand: *See*—
Display stand. Shoe-shining stand.
Motor stand.
Stand with water-cooled drum, Paper-unwinding. E. E., Berry. 1,685,117; Sept. 25.
Starter, Automatic motor. L. C. Hardesty. 1,685,671; Sept. 25.
Steering apparatus for motor-driven vehicles. E. J. Armstrong. 1,685,306; Sept. 25.
Steering gear, Foot-operated. W. J. McCarty. 1,685,332; Sept. 25.
Storing alkali metals, Method and apparatus for. D. H. Brophy and W. A. Ruggles. 1,685,666; Sept. 25
Storing and handling material, System for. F. T. Kern. 1,685,675; Sept. 25.
Stove. A. H. Tinnerman. Des. 76,435; Sept. 25.
Stove, Hydrocarbon heating. H. B. Reppetto. 1,685,095; Sept. 25.
Stove-leg connection. E. A. Rutenber. 1,685,096; Sept 25.
Strainer, Duplex oil. J. T. Voorhels. 1,685,303; Sept. 25.
Strainers, Forming well. J. H. McEvoy, jr. 1,685,287; Sept. 25.
Strainer, Liquid. I. J. Wenzka. 1,685,655; Sept. 25.
Streak-ribbed product and making same. C. Ellis. 1,685,355; Sept. 25.
Stropping device, Razor-. C. L. Van Amburgh. 1,685,470; Sept. 25.
Studding for building structures. E. B. Selway. 1,685,247; Sept. 25.
Stuffing box and shaft bearing, Combined. J. C. Smith. 1,685,381; Sept. 25.
Sulphur dioxide from waste gases, Recovering. G. A. Richter. 1,685,754; Sept. 25.
Sulphur, Recovery of. W. H. Howard. 1,685,231; Sept. 25.
Superheater. H. R. Stevens, W. S. Parker, F. W. Shupert, and J. C. Benson. 1,685,726; Sept. 25.
Support for vacuum tubes. J. H. Mosher. 1,685,706; Sept. 25.
Support, Insulator. B. M. Smalley. 1,685,684; Sept. 25.
Swimming apparatus. G. P. Hoppmann. 1,685,083; Sept. 25.
Switch: *See*—
Electric switch.
Switch box. G. E. Palmer and E. G. Johansson. 1,685,462; Sept. 25.
Switch-throwing device. J. L. Milton. 1,685,172; Sept. 25.
Switching device, Electric. M. W. Cooke and O. Williams. 1,685,149; Sept. 25.
Swivel coupling. E. W. Davis. 1,685,351; Sept. 25.
Syringe, Powder-placing. L. L. Findley. 1,685,280; Sept. 25.
Table for carrying stone for cutting. W. J. Allen. 1,685,661; Sept. 25.
Table set. J. Theobald. Des. 76,434; Sept. 25.
Talking machines, Stopping means of. E. N. Waterworth. 1,685,471; Sept. 25.
Tap or cock, Screw-down. G. N. Sperryn. 1,685,465; Sept. 25.
Teaching sight singing, Apparatus for. M. B. Rock. 1,685,682; Sept. 25.
Teeth and fixing the same, Artificial. C. Joannides. 1,685,541; Sept. 25.
Teeth, Artificial. C. G. Miller. 1,685,289; Sept. 25.
Telephone system. R. F. Stehlik. 1,685,410; Sept. 25.
Telephone system, Automatic. C. E. Lomax. 1,685,547; Sept. 25.
Telephone system, Automatic. L. L. Ruggles. 1,685,379; Sept. 25.
Temperature-controlling means. J. Bailey. 1,685,348; Sept. 25.
Tens-carrying device for calculating machines. O. Weiskopf. 1,685,346; Sept. 25.
Tension for cableways, Floating. G. Nelson. 1,685,720; Sept. 25.
Terminal, Cable. D. Basch. 1,685,625; Sept. 25.
Terminal for bushing insulators. A. O. Austin. 1,685,662; Sept. 25.
Testing device for valves. C. Johnson. 1,685,454; Sept. 25.
Testing machine, Brake-. W. K. Shone. 1,685,297; Sept. 25.
Textile fabric. J. S. Boyd. Des. 76,374; Sept. 25.
Textile fabric or similar article of manufacture. A. J. Heinke. Des. 76,393; Sept. 25.
Textile fabric or similar article of manufacture. S. G. Zaron. Des. 76,446; Sept. 25.
Thermionic tube, Double-grid. M. von Ardenne. 1,685,253; Sept. 52.
Thermometer. E. B. Foote. 1,685,193; Sept. 25.
Thermometer. A. D. Rose. Des. 76,421; Sept. 25.
Thermometer frame. L. V. Lavell. Des. 76,404; Sept. 25.
Tie: *See*—
Railway tie.
Tie clip. W. A. Ormsbee. Des. 76,412; Sept. 25.
Timing device, Differential. R. La France. 1,685,166; Sept. 52.
Tinning-cup attachment for blowtorches. H. F. Weinert. 1,685,258; Sept. 25.
Tinning pot. P. E. Hunter. 1,685,162; Sept. 25.
Tip. W. A. Vollmer. 1,685,578; Sept. 25.
Tire and rim. A. J. Michaud. 1,685,552; Sept. 25.
Tire-deflation signal. H. R. Hughes. 1,685,325; Sept 25.
Tire, Vehicle. I. J. Remark. Des. 76,419; Sept. 25.
Tool, Garden. E. P. Guthrie. 1,685,217; Sept. 25.
Tool, Grinding. D. L. Spraker. 1,685,100; Sept 25.
Tool guard. E. D. Boyce. 1,685,213; Sept. 25.
Tool, Machine. W. W. Potter. 1,685,556; Sept. 25.
Tool, Oil-well. G. D. Watson. 1,685,472; Sept. 25.
Tool, Scraping. L. B. Shultz. 1,685,380; Sept. 25.
Towel-bar bracket. J. H. Balmer. Des. 76,369; Sept. 25.
Toy baseball game. M. J. Lowry. 1,685,428; Sept. 25.
Toy body formed of sheet material. I. Berger. 1,685,594; Sept. 25.
Toy magnetic crane. E. J. Keedy. 1,685,707; Sept. 25.
Toy, Spark-producing. C. Arnold. 1,685,412; Sept. 25.
Toy speed boat. C. R. Buchet. 1,685,350; Sept. 25.
Toys with changing pictures, Interchangeable transparent disk on spark-producing. C. Arnold. 1,685,411; Sept. 25.
Track for sliding sashes. R. I. Eustis. 1,685,535; Sept. 25.
Track sprinkler. W. H. Whalen. 1,685,581; Sept. 25.
Tractor. G. W. Engstrom. 1,685,279; Sept. 25.
Tractor. H. H. Linn. 1,685,676; Sept. 25.
Tractors, Side-draft control for. W. L. Paul. 1,685,375; Sept. 25.
Traffic button or signal. D. H. Durand. 1,685,449; Sept. 25.
Train-control apparatus. T. E. and J. E. Clark. 1,685,479; Sept. 25.
Transmission. A. Y. Dodge. 1,685,523; Sept. 25.
Transmission, Gear. C. R. Nichols. 1,685,461; Sept. 25.
Transmission system. E. V. Griggs. 1,685,357; Sept. 25.
Trap: *See*—
Insect trap.
Trap doors, Holding means for car-vestibule. A. A. Constantine. 1,685,124; Sept. 25.
Tray and making same. A. Barchoff. 1,685,116; Sept. 25.
Tray, Vanity. L. Levien. 1,685,237; Sept. 25.
Treating coke and products. C. L. Waggoner and F. B. Thacher. 1,685,654; Sept. 25.
Treating hats and the like. R. H. Oakes. 1,685,199; Sept. 25.
Treating material and making same, Liquid-. A. Schreier. 1,685,204; Sept. 25.
Treating pearl chips and product. G. H. Gebhardt. 1,685,451; Sept. 25.
Treating polluted acid wastes, Process and apparatus for. J. T. Travers. 1,685,300; Sept. 25.
Treatment of polluted wastes. J. T. Travers. 1,685,301; Sept. 25.
Trestle beams, Foldable horse for. J. G. Davis. 1,685,668; Sept. 25.
Trestle, Collapsible. J. P. Gibson. 1,685,283; Sept. 25.
Trimming, Narrow woven. C. S. Wackerman. Des. 76,440; Sept. 25.
Trolley-wire clamp. S. S. Matthes. 1,685,431; Sept. 25.
Truck wheel, Motor-. J. D. Rauch. 1,685,294; Sept. 25.
Trussed structure. G. H. Dawson and H. F. Frease. 1,685,353; Sept. 25.
Trussed structure. H. G. Treglilus. 1,685,107; Sept. 25.
Tube: *See*—
Thermionic tube. Vacuum tube.
Tube-drawing plug. J. Kemp. 1,685,636; Sept. 25.
Tubing, Making finned. H. W. Bundy. 1,685,270; Sept. 25.
Tubing, Method and apparatus for making. H. W. Bundy. 1,685,269; Sept. 25.
Tuning device. L. Muller. 1,685,717; Sept. 25.
Turbine, Hydraulic. W. M. White. 1,685,261; Sept. 25.
Typewriter. J. M. Angeletti. 1,685,391; Sept. 25.
Universal joint. G. W. Benedict. 1,685,446; Sept. 25.
Universal joint. W. H. Thiemer. 1,685,509–10; Sept. 25.
Vacuum-cleaner attachment. W. S. Simpson. 1,685,299; Sept. 25.
Vacuum tube, Thermionic. J. D. Jordan. 1,685,326; Sept. 25.
Vacuum tubes, Adapter for. C. R. Phiffer. 1,685,767; Sept. 25.
Valve. E. U. Siena. 1,685,298; Sept. 25.
Valve and gas-meter protector, Special sliding trapdoor. R. Salbador. 1,685,683; Sept. 25.
Valve, Fluid-pressure-control. J. M. Larson. 1,685,286; Sept. 25.
Valve for gaseous-fuel burners, Control. H. H. Dodge. 1,685,275; Sept. 25.
Valve-operating mechanism. F. A. Whitten. 1,685,582; Sept. 25.
Valve plate, Warpless. D. Sandford. 1,685,615; Sept. 25.
Valve pump. J. M. Streich. 1,685,650; Sept. 25.

Valve, Tire. W. P. Porter. 1,685,376; Sept. 25.
Vapors, Recovery of. R. T. Osborn. 1,685,501; Sept. 25.
Vegetable cutter. C. Russo. 1,685,245; Sept. 25.
Vehicle body, Closed. A. E. Northup. Des. 76,410; Sept. 25.
Vehicle drive. H. H. Linn. 1,685,641; Sept. 25.
Vehicle light. J. S. Anderson. 1,685,622; Sept. 25.
Vehicle stop. M. Stockov. 1,685,467; Sept. 25.
Vehicle suspension. C. F. Rodin. 1,685,205; Sept. 25.
Vending jar and base, Combined. O. Y. Schnering. Des. 76,427; Sept. 25.
Vending machine, Coin-detecting. J. H. Mann, jr. 1,685,550; Sept. 25.
Ventilator for chimneys. A. McDonald and W. O. Smith. 1,685,170; Sept. 25.
Voltage regulator, Induction. H. R. West. 1,685,656; Sept. 25.
Wagon, Separable tractor dump. W. J. McVicker and A. R. Sandt. 1,685,171; Sept. 25.
Walking beam, Derrick. W. R. McDowell. 1,685,238; Sept. 25.
Wall construction. G. Allen, jr., and F. C. Simpson. 1,685,591; Sept. 25.
Watch dial or similar article. S. D. J. Yuen. Des. 76,445; Sept. 25.
Water heater. F. H. McCormick. 1,685,642; Sept. 25.
Water heater, Electric. E. T. P. Kopatz. 1,685,364; Sept. 25.
Water motor, Gravity. M. D. Hays. 1,685,285; Sept. 25.
Water system. J. A. Smith. 1,685,099; Sept. 25.
Wear plate and centering device for draft-rigging keys for railway cars, Combined. S. L. Joiner. 1,685,455; Sept. 25.
Weather strip. D. H. Harnly. 1,685,324; Sept. 25.
Wedding ring. J. Granat. Des. 76,388–90; Sept. 25.
Weighing and dumping body for motor trucks, Combined. T. R. Duncan. 1,685,694; Sept. 25.
Welding arc, Stabilizing and modifying the metallic. J. B. Green. 1,685,082; Sept. 25.
Wheel: *See*—
Truck wheel.
Wheel structure, Vehicle. J. W. Holt. 1,685,130; Sept. 25.
Wheels, Apparatus for forming. C. L. Wilber. 1,685,513; Sept. 25.
Wind vane. F. Luipersbek. 1,685,134; Sept. 25.
Winding and unwinding yarns or threads. E. J. Abbott. 1,685,390; Sept. 25.
Wire, Insulated. E. A. Mau and O. F. Hutchinson. 1,685,369; Sept. 25.
Work holder. G. L. Ljunglof. 1,685,167; Sept. 25.
Woodworking machine. O. Onsrud. 1,685,572; Sept. 25.
Woodworking machine. O. Onsrud. 1,685,613; Sept. 25.
Wrapper for coins and the like. M. B. Sonne. 1,685,649; Sept. 25.
Wrapping machine, Bread-. H. F. Beehman. 1,685,146; Sept. 25.
Wrench: *See*—
Adjustable wrench. Socket wrench.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 25, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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2— 23: 1,685,452
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58: R. 17,090
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Sept. 4, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abber, Rebecca M., Malden, Mass. Salves. 246,224; Sept. 4; Serial No. 263,576; published June 12, 1928. Class 6.

Abraham & Straus, Inc., New York, N. Y. Gloves. 246,314; Sept. 4; Serial No. 239,220; published Jan. 17, 1928. Class 39.

Abramson, B., & Bro., New York, N. Y. Infants' and children's fabric and knitted caps, hats, and bonnets. 246,388; Sept. 4; Serial No. 262,142; published May 22, 1928. Class 39.

Adair, John T., doing business as Adair's Drug Stores, Lexington, Ky. Medical preparation. 246,297; Sept. 4; Serial No. 263,807; published June 12, 1928. Class 6.

Adams, Charles L., doing business as Adams Bakery, Los Angeles, Calif. Bread. 246,454; Sept. 4. Class 46.

Aero-Rocker Co., New York, N. Y. Knickerbockers, golf pants, jackets, etc. 246,335; Sept. 4; Serial No. 260,667; published May 22, 1928. Class 39.

Aftex Laboratories, Inc., New Haven, Conn. Liquid mouth wash, mouth-wash powder, etc. 246,220; Sept. 4; Serial No. 263,677; published June 12, 1928. Class 6.

Air Made Well Co., The. (See Judy, Philip S.)

Algonquin Silk Corp., New York, N. Y. Silk piece goods. 246,118; Sept. 4; Serial No. 265,354; published June 26, 1928. Class 42.

Allen, Early L., doing business as Allen Brothers, Leesville, La. Foot and gall ointment. 246,255; Sept. 4; Serial No. 257,773; published June 12, 1928. Class 6.

Aluminum Goods Manufacturing Co., Manitowoc, Wis. Aluminum ware. 246,414; Sept. 4; Serial No. 263,121; published June 26, 1928. Class 13.

American Mattress Works Inc., New Orleans, La. Mattresses, pillows, etc. 246,358; Sept. 4; Serial No. 264,004; published June 26, 1928. Class 32.

American Oven & Machine Co., Chicago, Ill. Roller mills. 246,270; Sept. 4; Serial No. 266,346; published June 26, 1928. Class 23.

American Silk Spinning Co., Providence, R. I. Silk yarns. 246,138; Sept. 4; Serial No. 264,792; published June 26, 1928. Class 43.

American Wire Fabrics Corporation, New York, N. Y. Wire screening. 246,384; Sept. 4; Serial No. 262,197; published June 19, 1928. Class 13.

Amersil Company, Inc., New York, N. Y. Containers serving as absorption vessels, dishes, tubing, etc. 246,207; Sept. 4; Serial No. 259,834; published June 19, 1928. Class 33.

Ames Shovel & Tool Company, Boston, Mass. Shovels, spades, and scoops. 246,234; Sept. 4; Serial No. 266,233; published June 26, 1928. Class 23.

Amster, Sidney N., Cleveland Heights, Ohio. Dental powder for false teeth. 246,463; Sept. 4. Class 6.

Anchor Cap Co. Inc., New York, N. Y. Men's and boys' hats and caps. 246,257; Sept. 4; Serial No. 255,289; published May 22, 1928. Class 39.

Ancienne Manufacture d'Horlogerie, Patek, Philippe et Co., Société Anonyme, Geneva, Switzerland. Watches and parts thereof. 72,349; renewed Jan. 19, 1929.

Anderson, C. J., & Co., Chicago, Ill. Electric controllers for motors, starters, and control devices, etc. 246,462; Sept. 4. Class 21.

Animal Trap Company of America, Lititz, Pa. Rat traps. 246,447; Sept. 4. Class 50.

Antrim, C. W., & Sons, Richmond, Va. Coffee and tea. 246,218; Sept. 4; Serial No. 266,295; published June 26, 1928. Class 46.

Appelbaum, Rose, Brooklyn, N. Y. Cosmetics. 246,453; Sept. 4. Class 6.

Archer Hosiery Mills. (See Mitchell Hosiery Mills.)

Asbestos Spinning and Weaving Corporation, New York, N. Y. Brake lining. 246,120; Sept. 4; Serial No. 265,312; published June 19, 1928. Class 35.

Associated Merchandising Corporation, New York, N. Y. Swimming suits. 246,433; Sept. 4; Serial No. 262,890; published May 1, 1928. Class 39.

Atlantic Mills, The, Olneyville, R. I., and Stottville, N. Y. Woolen textile fabrics. 246,149–50; Sept. 4; Serial Nos. 266,074–5; published June 26, 1928. Class 42.

Bacon, Stickney & Co., Inc., Albany, N. Y. Coffee. 246,381; Sept. 4; Serial No. 265,610; published June 19, 1928. Class 46.

Badger Heater Co. (See Sands Manufacturing Company, The.)

Barnes, Fred D., doing business as Heelem Medicine Company, Chicago, Ill. Ointment for the relief of colds in the head, nasal catarrh, etc. 246,214; Sept. 4; Serial No. 258,447; published June 5, 1928. Class 6.

Barr & Shoulberg, Inc., New York, N. Y. Overcoats, topcoats, coats, etc. 246,205; Sept. 4; Serial No. 262,590; published May 8, 1928. Class 39.

Barrow Manufacturing Company, Winder, Ga. Overalls, work pants, and work shirts. 246,421; Sept. 4; Serial No. 262,284; published May 8, 1928. Class 39.

Baruchson, Samuel, doing business as Royal Ulster Rug Company, New York, N. Y. Rugs. 246,369–70; Sept. 4; Serial Nos. 265,880–1; published June 26, 1928. Class 42.

Bassis, Jean A., Attleboro, Mass. Grapefruit preserves. 246,119; Sept. 4; Serial No. 265,361; published June 26, 1928. Class 46.

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 246,437; Sept. 4; Serial No. 263,025; published May 29, 1928. Class 39.

Belding Heminway Company, New York, N. Y. Textile threads. 246,172–3; Sept. 4; Serial Nos. 252,540–1; published June 12, 1928. Class 43.

Beling, Leopold, doing business as India Tea Bureau, New York, N. Y. Tea. 246,284; Sept. 4; Serial No. 261,786; published June 26, 1928. Class 46.

Berry, Max, Boston, Mass. Men's suits and coats. 246,338; Sept. 4; Serial No. 260,485; published May 15, 1928. Class 39.

Bingham, William H. C., Hoboken, N. J. Tablets which are dissolved in hot water and applied as a lotion to the hair for permanent waving. 246,249; Sept. 4; Serial No. 256,856; published June 5, 1928. Class 6.

Binner, Mme., New York, N. Y. Corsets, brassières, girdles, etc. 246,394; Sept. 4; Serial No. 262,017; published May 8, 1928. Class 39.

Blizzard Sales Co., Omaha, Nebr. Speed-change pulleys having hydraulic and electrical controlling means and operable to vary the speed of mechanism driven by the pulleys. 246,288; Sept. 4; Serial No. 261,607; published June 19, 1928. Class 23.

Blue Ridge Bottling Co., St. Louis, Mo. Maltless beverages. 246,158; Sept. 4; Serial No. 265,942; published June 19, 1928. Class 45.

Bohn Aluminum & Brass Corporation, Detroit, Mich. Pistons. 246,451; Sept. 4. Class 23.

Boyle, John, & Company Incorporated, New York, N. Y. Cotton ducks and drills, awning stripe, and ticking. 246,178; Sept. 4; Serial No. 250,623; published June 26, 1928. Class 42.

Boyle Manufacturing Company, Inc., Los Angeles, Calif. Wrought-iron art products. 246,309; Sept. 4; Serial No. 243,476; published June 19, 1928. Class 32.

Bradley, Forte M., doing business as Liquid Hair Remedy Co., Joplin, Mo. Liquid preparation. 246,436; Sept. 4; Serial No. 263,026; published June 12, 1928. Class 6.

Brenner, Gustave, San Francisco, Calif. Hosiery. 246,417; Sept. 4; Serial No. 262,806; published May 22, 1928. Class 39.

Brewer & Company, Inc., Worcester, Mass. Remedy for colds, grippe, etc. 246,444; Sept. 4. Class 6.

Brodie, Barnet, Inc., Brooklyn, N. Y. Smoked, pickled, and raw tongue, corned beef, etc. 246,395; Sept. 4; Serial No. 262,015; published June 19, 1928. Class 46.

Brooks, Burleigh, New York, N. Y. Camera-lens filters. 246,238; Sept. 4; Serial No. 266,187; published June 19, 1928. Class 26.

Brooks, Stanley O., doing business as Dr. S. O. Brooks Drug Products Company, Lemont, Ill. Tonic for treating the gums of the mouth. 246,290; Sept. 4; Serial No. 261,549; published June 5, 1928. Class 6.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Smoking and chewing tobacco and cigarettes. 246,148; Sept. 4; Serial No. 266,080; published June 26, 1928. Class 17.

Brownstein-Louis Company, Los Angeles, Calif. Shirts, pajamas, and nightgowns. 246,356; Sept. 4; Serial No. 264,075; published May 15, 1928. Class 39.

Bruun, Knud I., doing business as "Hill-Top" Products Company, Houston, Tex. Powder to be used as an ingredient in the preparation of soft drinks. 246,266; Sept. 4; Serial No. 266,579; published June 26, 1928. Class 45.

Buettner, T., & Co., Inc., Chicago, Ill. Threads, yarns, and cottons. 246,116; Sept. 4; Serial No. 265,467; published June 26, 1928. Class 43.

Buffalo Cloth Weaving Company. (See Millette, Emma C.)

Burroughs Wellcome & Co. (U. S. A.) Inc. (See Wellcome, Henry S., assignor.)

Buth, Mrs. L., & Son, Lockney, Tex. Liquid preparations. 246,418; Sept. 4; Serial No. 262,442; published June 12, 1928. Class 6.

Byrne & Hammer Dry Goods Co., Omaha, Nebr. Work, negligee, and dress shirts. 72,126; renewed Jan. 5, 1929.

C. G. L. Knitwear Co. (See Lampl, Carl G.)

Cab-a-Lac Company, Rochester, N. Y. Kraut juice in cans, bottles, and bulk. 246,344; Sept. 4; Serial No. 264,556; published June 19, 1928. Class 46.

Cactus Manufacturing Co. (See Evans, Chauncey J.)

California Beverage Co., Inc., Baltimore, Md. Maltless beverages. 246,157; Sept. 4; Serial No. 265,948; published June 19, 1928. Class 45.

Capitol Silk Corporation, New York, N. Y. Silks. 246,152; Sept. 4; Serial No. 266,020; published June 26, 1928. Class 42.

Carpenter Cook Co., also doing business as Michigan Candy Co., Menominee, Mich. Candy. 246,113; Sept. 4; Serial No. 265,520; published June 19, 1928. Class 46.

Caskey Turn Kwik Corporation, The, Martinsburg, W. Va. Devices for packing and turning or upending containers for fruits, etc. 246,142; Sept. 4; Serial No. 264,713; published June 26, 1928. Class 28.

Cedarburg Woolen Mills, Cedarburg, Wis. All-wool blankets. 246,104; Sept. 4; Serial No. 265,598; published June 19, 1928. Class 42.

Cederlund, Carl E., doing business as J. Cederlunds Söner, Stockholm, Sweden, and Copenhagen, Denmark. Beverages. 246,177; Sept. 4; Serial No. 251,321; published June 26, 1928. Class 45.

Cederlunds, J., Söner. (See Cederlund, Carl E.)

Celanese Corporation of America, New York, N. Y. Preparation for use as an aid in dyeing. 246,351; Sept. 4; Serial No. 264,222; published June 12, 1928. Class 6.

Centemeri, P., & Co., New York, N. Y. Gloves, hats, shoes, slippers, etc. 246,159; Sept. 4; Serial No. 260,096; published May 29, 1928. Class 39.

Centemeri, P., & Co., New York, N. Y. Chair seats and cushions, cushions for vehicles and baby carriages, etc. 246,160; Sept. 4; Serial No. 260,094; published June 26, 1928. Class 32.

Centemeri, P., & Co., New York, N. Y. Chair seats and cushions, etc. 246,161; Sept. 4; Serial No. 260,090; published June 26, 1928. Class 32.

Centemeri, P., & Co., New York, N. Y. Chair seats and cushions, cushions for vehicles and baby carriages, etc. 246,342; Sept. 4; Serial No. 260,097; published June 26, 1928. Class 32.

Chicago Spring Hinge Company, Chicago, Ill. Hinges. 246,368; Sept. 4; Serial No. 265,888; published June 19, 1928. Class 13.

Ciarlante, Ariberto E., New York, N. Y. Permanent-hair-wave pad. 246,296; Sept. 4; Serial No. 263,812; published May 29, 1928. Class 44.

Cincinnati Oil Works Company, Cincinnati, Ohio. Lubricating oil. 70,237; renewed Aug. 11, 1928.

Cincinnati Oil Works Company, The, Cincinnati, Ohio. Lubricating grease. 70,217; renewed Aug. 11, 1928.

Coarl Hats, Inc., New York, N. Y. Ladies' hats. 246,227; Sept. 4; Serial No. 263,538; published May 15, 1928. Class 39.

Coca Cola Bottling Company, Liberal, Kans. Malt-less beverages. 246,127; Sept. 4; Serial No. 265,140; published June 19, 1928. Class 45.

Comey, R. H., Companies Consolidated, Brooklyn, N. Y. Panama hats and vegetable-fibre hats for men. 246,168; Sept. 4; Serial No. 259,845; published May 22, 1928. Class 39.

Comey, R. H., Companies Consolidated, Brooklyn, N. Y. Hats and hat bodies. 246,334; Sept. 4; Serial No. 260,718; published May 8, 1928. Class 39.

Conradty, C., Nuremberg, Germany. Electric and galvanic carbons. 70,255; renewed Aug. 18, 1928.

Consumers Brewing Company, assignor to Penn Beverage Company, Philadelphia, Pa. Ale, beer, and porter. 70,220; renewed Aug. 11, 1928.

Cooper Oven Thermometer Company, The, Pequabuck, Conn. Thermostatic thermometers. 246,120; Sept. 4; Serial No. 265,141; published June 19, 1928. Class 26.

Coopersmith Bed Company, St. Louis, Mo. Folding beds, day beds, and folding cots. 246,353; Sept. 4; Serial No. 264,149; published June 26, 1928. Class 32.

Corah, N., & Sons, Limited, Leicester, England. Hosiery, undershirts, pants, etc. 246,337; Sept. 4; Serial No. 262,154; published May 29, 1928. Class 39.

Cowles Detergent Company, Cleveland, Ohio. Soluble chemical compounds. 246,293; Sept. 4; Serial No. 261,046; published May 29, 1928. Class 4.

Crowley, Timothy F., New York, N. Y. Ladies' fancy neckwear. 246,180; Sept. 4; Serial No. 247,415; published May 29, 1928. Class 39.

Crowley, Timothy F., New York, N. Y. Ladies' wearing apparel, including vestees, waists, etc. 246,181; Sept. 4; Serial No. 247,414; published May 29, 1928. Class 39.

Curtis & Von Bernuth Mfg. Co., New York, N. Y. Lap robes, steamer rugs, blankets, etc. 246,251; Sept. 4; Serial No. 256,612; published June 19, 1928. Class 42.

Curtiss Candy Company, The, Chicago, Ill. Candy. 246,146; Sept. 4; Serial No. 249,407; published June 26, 1928. Class 46.

Dafoe Chemical Laboratories, Inc., Tacoma, Wash. Antiseptic fly spray and bleacher. 246,443; Sept. 4. Class 6.

Daimler-Motoren-Gesellschaft, Unterturkheim, Germany, by change of name, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Oils, greases, and petroleum products. 71,287; renewed Nov. 17, 1928.

Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, Germany, by change of name, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Heating and lighting apparatus. 71,331; renewed Nov. 17, 1928.

Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Liquid-measuring pumps. 246,204; Sept. 4; Serial No. 262,599; published June 19, 1928. Class 26.

Decker, Alfred & Cohn, Inc., Chicago, Ill. Coats, vests, trousers, and overcoats. 246,246; Sept. 4; Serial No. 257,331; published June 12, 1928. Class 39.

Degez. (See Rallet Corporation of America.)

Del Rio Packing Corporation, Healdsburg, Calif. Dried prunes. 246,304; Sept. 4; Serial No. 253,875; published June 26, 1928. Class 46.

Del Rio Plantations, Inc., Bayamon, Porto Rico, and Orange, Mass. Fresh pineapple, grapefruit, oranges, and cocoanuts and canned pineapples and grapefruit. 246,393; Sept. 4; Serial No. 262,066; published May 8, 1928. Class 46.

Denver Fire Clay Company, The, Denver, Colo. Burners, furnaces, etc. 246,386; Sept. 4; Serial No. 262,158; published June 26, 1928. Class 34.

Dermatox Chemical Co. (See Noveck, Morris.)

Doris Silk Hosiery Company, New York, N. Y. Hosiery. 246,245; Sept. 4; Serial No. 257,351; published May 22, 1928. Class 39.

Driscoll, Arthur D., Whitney Point, N. Y. Foul medicine for animals. 246,277; Sept. 4; Serial No. 261,952; published June 12, 1928. Class 6.

Duplan Silk Corporation, New York, N. Y. Silk, etc., yarns and threads. 246,124–5; Sept. 4; Serial Nos. 265,148–9; published June 26, 1928. Class 43.

Eagle Knitting Mills, Milwaukee, Wis. Leather goods. 246,392; Sept. 4; Serial No. 262,068; published May 29 1928. Class 39.

Eastman Kodak Company, Rochester, N. Y. Photographic cameras. 246 269; Sept. 4; Serial No. 266,363; published June 26, 1928. Class 26.

Eisenwerk (vorm. Nagel & Kaemp) A. G. Hamburg, Germany. Cranes of all kinds, milling machinery, etc. 246,287; Sept. 4; Serial No. 261,668; published June 26, 1928. Class 23.

Elgin Chocolate Products Co., Inc., Elgin, Ill. Candy. 246,376; Sept. 4; Serial No. 265,720; published June 26, 1928. Class 46.

Elias-Katz Shoe Factories, Los Angeles, Calif. Shoes and slippers. 246,339; Sept. 4; Serial No. 260,433; published May 15, 1928. Class 39.

Ellin, Thomas R., assignor to Thos. R. Ellin (Footprint Works) Ltd., Sheffield, England. Certain tools. 70,239–40; renewed Aug. 11, 1928.

Ely & Walker Dry Goods Co., St. Louis, Mo. Play suits, bath robes, and beach coats. 246,174; Sept. 4; Serial No. 251,960; published May 15, 1928. Class 39.

Emerson Medicine Company. (See Ray, Richard.)

Empire Navigation Company, Stockton, Calif. Fresh onions and fresh potatoes. 246,382; Sept. 4; Serial No. 265,601; published June 26, 1928. Class 46.

Empire Piece Dyeing and Finishing Company, Paterson, N. J. Fabrics in the piece. 246,261; Sept. 4; Serial No. 266,724; published June 26, 1928. Class 42.

Empire Tobacco Company, Atlanta, Ga. Cigarettes. 246,375; Sept. 4; Serial No. 265,721; published June 26, 1928. Class 17.

Epstein Brothers Shoe Company, The, Cleveland, Ohio. Shoe soles, linings within shoes, etc. 246,385; Sept. 4; Serial No. 262,163; published May 8, 1928. Class 39.

Epstein Frank & Lochner Inc., Buffalo, N. Y. Suits and overcoats. 246,464; Sept. 4. Class 39.

Euclid Candy Company, The, Brooklyn, N. Y. Candy. 246,112; Sept. 4; Serial No. 265,527; published June 19 1928. Class 46.

Evans, Chauncey J., doing business as Cactus Manufacturing Co., Los Angeles, Calif. Tire patches and tire boots. 246,325; Sept. 4; Serial No. 211,577; published June 26, 1928. Class 35.

Farmer, Marion, Silk Hosiery. (See Lawless, Marion F.)

Federal Washboard Company, The, Tiffin, Ohio. Ironing tables. 246,111; Sept. 4; Serial No. 265,529; published June 19, 1928. Class 24.

Feller, Harry, Company, Inc., Louisville, Ky. Men's ties. 246,164; Sept. 4; Serial No. 259,902; published May 29, 1928. Class 39.

Feinberg, Jacob, doing business as J. F. Underwear Company, Allentown, Pa. Children's athletic waist union suits and outer garments. 246,175; Sept. 4; Serial No. 251,898; published Oct. 4, 1927. Class 39.

Feldt & Sheinberg, Houston, Tex. Frocks, dresses, robes, etc. 246 208; Sept. 4; Serial No. 259,719; published May 29, 1928. Class 39.

Fisher & Schimmel, New York, N. Y. Hosiery. 246,400; Sept. 4; Serial No. 263,466; published May 8, 1928. Class 39.

Fletcher-Wilson Coffee Co., Nashville, Tenn. Salted peanuts. 246,367; Sept. 4; Serial No. 265 896; published June 19, 1928. Class 46.

Florin, Philip, New York, N. Y. Tobacco pouches. 246,131; Sept. 4; Serial No. 265,038; published June 26, 1928. Class 8.

Fluffe Co. Inc. (See Sacher, Clarence B.)

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 246,273–4; Sept. 4; Serial Nos. 266,313–14; published June 19, 1928. Class 42.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 246,275; Sept. 4; Serial No. 266,311; published June 19, 1928. Class 42.

Foster, M. B., & Sons, Limited, assignor to M. B. Foster & Sons, Limited, London, England. Beer. 72,048; renewed Dec. 29, 1928.

Frank & Meyer Neckwear Company, St. Louis, Mo. Neckties, cravats, and scarfs. 246,441; Sept. 4; Serial No. 263,039; published May 15, 1928. Class 39.

Frank & Meyer Neckwear Co., St. Louis, Mo. Neckties, cravats, and scarfs. 246,442; Sept. 4; Serial No. 263,038; published May 15, 1928. Class 39.

Friedricks, Henry, & Co., New York, N. Y. Camel's-hair coats. 246,167; Sept. 4; Serial No. 259,850; published May 15, 1928. Class 39.

Frost, George, Company, Boston, Mass. Hose supporters. 246,217; Sept. 4; Serial No. 259,723; published May 29, 1928. Class 39.

Frute Nips Co. (See Siedenfuss, John C.)

Galena-Signal Oil Co., Franklin, Pa. Illuminating and lubricating oils and greases. 70,878; renewed Oct. 13, 1928.

Gas-Aire, Incorporated, Cleveland, Ohio. Gas-burning apparatus and parts thereof. 246,151; Sept. 4; Serial No. 266,026; published June 26, 1928. Class 34.

Gash-Stull Company, Chester, Pa. Lubricating oils and greases. 246,459; Sept. 4. Class 15.

Ginsberg, J., & Sons, New York, N. Y. Men's and boys' caps and hats. 246,440; Sept. 4; Serial No. 263,061; published May 29, 1928. Class 39.

Glickman, Abraham E., doing business as Roxy Perfumer, Brooklyn, N. Y. Perfumes, toilet waters, etc. 246,209; Sept. 4; Serial No. 259,678; published Apr. 24, 1928. Class 6.

Goldberg, Samuel A., Chicago, Ill. Hosiery. 246,343; Sept. 4; Serial No. 264,578; published May 29, 1928. Class 39.

Goldie Maid Garment Co., Los Angeles, Calif. Dresses, smocks, etc. 246,391; Sept. 4; Serial No. 262,077; published May 8, 1928. Class 39.

Goldman, A. S., & Co. Inc., New York, N. Y. Neckwear. 246,184; Sept. 4; Serial No. 245,838; published May 15, 1928. Class 39.

Goldschmidt Thermit Company, New York, N. Y. Trade periodicals. 72,362; renewed Jan. 19, 1929.

Good Roads Company, Inc., Upper Darby, Pa. Mechanical spreader. 246,115; Sept. 4; Serial No. 265,431; published June 19, 1928. Class 23.

Grant, W. T., Company, Lynn, Mass. Hosiery. 246,215; Sept. 4; Serial No. 264,297; published May 29, 1928. Class 39.

Graton & Knight Company, Worcester, Mass. Machinery belting and leather washers. 246,268; Sept. 4; Serial No. 266,532; published June 26, 1928. Class 35.

Great Western Stove Co., Leavenworth, Kans. Gas ranges, coal ranges, etc. 246,372; Sept. 4; Serial No. 265,838; published June 26, 1928. Class 34.

Grimm Buggy Co., Grimm, Ga. Knitted underwear. 246,323; Sept. 4; Serial No. 226,193; published May 29, 1928. Class 39.

Grigsby-Grunow-Hinds Co., now by change of name to Grigsby-Grunow Company, Chicago, Ill. Radio receiving sets. 246,213; Sept. 4; Serial No. 258,688; published Apr. 24, 1928. Class 21.

Grigsby-Grunow-Hinds Co., now by change of name to Grigsby-Grunow Company, Chicago, Ill. Rectifying tubes. 246,228; Sept. 4; Serial No. 262,562; published May 22, 1928. Class 21.

H. F. Hemingway & Co., Baltimore, Md. Foods. 71,811; renewed Dec. 15, 1928.

Haan, R. M., Candy Co., Inc., New York, N. Y. Chocolates and bonbons. 246,292; Sept. 4; Serial No. 261,189; published June 19, 1928. Class 46.

Haber's Incorporated, Port Arthur, Tex. Men's suits, overcoats, and topcoats. 246,216; Sept. 4; Serial No. 259,803; published May 29, 1928. Class 39.

Haline & Company, Newark, N. J. Clothing. 246,211; Sept. 4; Serial No. 259,490; published May 15, 1928. Class 39.

Hall, Hartwell & Co., assignor to Hall, Hartwell & Co. Inc., Troy, N. Y. Collars and cuffs. 71,021; renewed Oct. 27, 1928.

Hall, Hartwell & Co., assignor to Hall, Hartwell & Co. Inc., Troy, N. Y. Outer shirts, collars, and cuffs. 71,022; renewed Oct. 27, 1928.

Hand-Spun Chocolates, Inc., Boston, Mass. Candy. 246,350; Sept. 4; Serial No. 264,302; published June 19, 1928. Class 46.

Hardwick & Magee Company, Philadelphia, Pa. Textile carpets. 264,449; Sept. 4. Class 42.

Hawley & Hoops, New York, N. Y. Candy. 246,366; Sept. 4; Serial No. 265,903; published June 26, 1928. Class 46.

Heelem Medicine Company. (See Barnes, Fred D.)

Heyl & Co. Chemisch-Pharmaceutische Fabrik Akt.-Ges., Berlin, Germany. Preparation for stopping hemorrhage and for promoting the healing of wounds. 246,250; Sept. 4; Serial No. 256,624; published June 12, 1928. Class 6.

Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Suits and overcoats. 246,466; Sept. 4. Class 39.

"Hill-Top" Products Company. (See Bruun, Knud I.)

Hilton Company, Inc., The, Newark, N. J. Men's and boys' suits and overcoats, bathing suits, etc. 246,170; Sept. 4; Serial No. 252,602; published May 29, 1928. Class 39.

Hilton Company, Inc., The, Newark, N. J. Men's and boys' suits, overcoats, etc. 246,171; Sept. 4; Serial No. 252,600; published May 29, 1928. Class 39.

Holland-Hessol Co. Inc., New York, N. Y. Clothing. 246,281; Sept. 4; Serial No. 261,881; published May 15, 1928. Class 39.

Home-Ade Products Company. (See Zweifel, H. Jacob.)

Honeyland Candy Shoppe. (See Wooster, Edward R.)

Hopkins, Ferdinand T., doing business as Ferd. T. Hopkins & Son, New York, N. Y. Lotion. 246,415; Sept. 4; Serial No. 263,084; published June 12, 1928. Class 6.

Howlett & Hockmeyer Co., Inc., New York, N. Y. Clothing. 246,337; Sept. 4; Serial No. 260,568; published May 15, 1928. Class 39.

Hydraulic Press Manufacturing Company, The, Mount Gilead, Ohio. Hydraulic presses. 246,378–80; Sept. 4; Serial Nos. 265,648–50; published June 26, 1928. Class 23.

Ideal Shoe Mfg. Co., Milwaukee, Wis. Shoes. 246,318; Sept. 4; Serial No. 236,038; published May 22, 1928. Class 39.

Illinois Powder Mfg. Co., St. Louis, Mo. Dynamite. 246,363; Sept. 4; Serial No. 266,733; published June 26, 1928. Class 9.

Indelio Ink Company, Minneapolis, Minn. Writing ink. 246,143; Sept. 4; Serial No. 264,585; published June 19, 1928. Class 11.

India Tea Bureau. (See Beling, Leopold.)

Industria Marmellate e Conserve Alimentari, Voghera, Italy. Preserved vegetables. 246,326; Sept. 4; Serial No. 205,120; published June 19, 1928. Class 46.

International Bedding Company, The, Baltimore, Md. Mattresses, bed springs, and inner-spring mattresses. 246,156; Sept. 4; Serial No. 265,969; published June 19, 1928. Class 32.

International Harvester Company of America, assignor to International Harvester Company, Chicago, Ill. Grain-binding harvesters and front-cut grass mowers. 71,944; renewed Dec. 22, 1928.

International Manufacturing Co., The, to The International Handkerchief Manufacturing Company, New York, N. Y., successor. Handkerchiefs. 70,882–3; renewed Oct. 13, 1928.

International Manufacturing Co., The, to The International Handkerchief Manufacturing Company, New York, N. Y., successor. Handkerchiefs. 70,884; renewed Oct. 13, 1928.

International Manufacturing Co., The, to The International Handkerchief Manufacturing Company, New York, N. Y., successor. Handkerchiefs. 70,885–6; renewed Oct. 13, 1928.

International Silver Company, Meriden, Conn. Fruit bowls, flower bowls, vases, etc. 246,134; Sept. 4; Serial No. 264,989; published June 19, 1928. Class 13.

Ipswich Mills, Boston, Mass. Underwear. 246,183; Sept. 4; Serial No. 246,288; published May 29, 1928. Class 39.

Italian Vineyard Co., Guasti and Los Angeles, Calif. Tonic with wine base. 246,448; Sept. 4. Class 6.

J. F. Underwear Company. (See Feinberg, Jacob.)

Jaciel Perfumers Inc., New York, N. Y. Skin lotion and talcum powder. 246,203; Sept. 4; Serial No. 262,608; published June 12, 1928. Class 6.

Jacob, H., & Sons, Inc., Brooklyn, N. Y. Shoes and slippers. 246,163; Sept. 4; Serial No. 259,917; published May 15, 1028. Class 39.

Janszen Company, The, Cincinnati, Ohio. Matches. 246,265; Sept. 4; Serial No. 266,594; published June 26, 1928. Class 9.

Jefferson Import Co., Inc., New York, N. Y. Boudoir slippers and shoes. 246,316; Sept. 4; Serial No. 238,723; published May 29, 1928. Class 39.

Jenner Glaswerk Schott & Gen., Jena, Germany. Raw glass for optical manufacture, glass tubes, rods, and plates, glass bottles, etc. 246,256; Sept. 4; Serial No. 255,514; published June 19, 1928. Class 33.

Jensen, Loyd A., doing business as Pan-American Chemical Co., Santa Rita, N. Mex. Germicidal detergent for throat and mouth. 246,315; Sept. 4; Serial No. 238,724; published June 5, 1928. Class 6.

Judy, Philip S., doing business as The Air Made Well Co., Oklahoma City, Okla. Well equipment. 246,467; Sept. 4. Class 23.

King of Clubs, Inc., Newark, N. J. Ginger ale. 246,360; Sept. 4; Serial No. 263,953; published June 19, 1928. Class 45.

Knox Hat Company, Inc., New York, N. Y. Hats and caps for men. 246,280; Sept. 4; Serial No. 261,884; published May 8, 1928. Class 39.

Knoxville Knitting Mills Co., Knoxville, Tenn., and New York, N. Y. Hosiery. 246 399; Sept. 4; Serial No. 263,477; published May 8, 1928. Class 39.

Koch, Chas. J., doing business as Wonder Brand Food Co., Jersey City, N. J. Tonic, wash, diarrhea treatment, asthma treatment for birds, and a balm for the treatment of birds' feathers. 246,133; Sept. 4; Serial No. 264,994; published June 12, 1928. Class 6.

Komfort Mfg. Co. (See Wilson, Albert A.)

Kretol Company, The, Washington, D. C. Chemicals. 71,360; renewed Nov. 17, 1928.

Kruckow, Frederick N., doing business as Speed-Boy Mfg. Co., Detroit, Mich. Tool. 246,289; Sept. 4; Serial No. 261,576; published June 26, 1928. Class 23.

Kuppenheimer, B., & Co., Inc., Chicago, Ill. Coats, vests, trousers, etc. 246,221; Sept. 4; Serial No. 263,656; published May 8, 1928. Class 39.

Lampl, Carl G., doing business as C. G. L. Knitwear Co., Cleveland, Ohio. Sweaters, dresses, and bathing suits. 246,188; Sept. 4; Serial No. 262,810; published May 15, 1928. Class 39.

Lawless, Marion F., doing business as Marion Farmer Silk Hosiery, Syracuse, N. Y. Hosiery. 246,468; Sept. 4. Class 39.

Leach, William J., Burlington, Wis. Tools. 246,136; Sept. 4; Serial No. 264,894; published June 19, 1928. Class 23.

Leaf, Abraham, Woodhaven, N. Y. Smoker's stand used on a table containing an attached gasoline cigarette lighter. 246,407; Sept. 4; Serial No. 263,322; published June 19, 1928. Class 8.

Lee, K. O., and Son Company, Aberdeen, S. Dak. Valve-reseating tools, valve-planing tool. 246,162; Sept. 4; Serial No. 260,059; published June 26, 1928. Class 23.

Lengyel Frères, Inc., New York, N. Y. Perfume, face powder, etc. 246,223; Sept. 4; Serial No. 263,609; published June 12, 1928. Class 6.

Lever Brothers, Limited, Port Sunlight, England. Vitamin concentrates. 246,416; Sept. 4; Serial No. 262,472; published June 12, 1928. Class 6.

Levy, Cornelius A., doing business as Lord Baltimore Baked Ham Company, Baltimore, Md. Ham spread. 246,155; Sept. 4; Serial No. 265,975; published June 19, 1928. Class 46.

Liberty Bottling Company, Chicago, Ill. Maltless beverages and sirups for making the same. 246,272; Sept. 4; Serial No. 266,326; published June 19, 1928. Class 45.

Liebovitz, S., & Sons, Inc., New York, N. Y. Shirts, blouses, and pajamas. 246,222; Sept. 4; Serial No. 263,610; published May 29, 1928. Class 39.

Lindy-Fan Company, The, New York, N. Y. Combined heaters and ventilators for motor vehicles. 246,169; Sept. 4; Serial No. 252,609; published June 19, 1928. Class 19.

Linsk, Harry, doing business as H. Linsk & Co., Philadelphia, Pa. Dresses. 246,187; Sept. 4; Serial No. 262,811; published May 15, 1928. Class 39.

Liquid Hair Remedy Co. (See Bradley, Porte M.)

Liquo-Rub Laboratories, Los Angeles, Calif. Liniment. 246,431; Sept. 4; Serial No. 262,812; published June 5, 1928. Class 6.

Littell, C. S., & Co., Inc., New York, N. Y. General Russian mineral oil. 246,349; Sept. 4; Serial No. 264,314; published June 12, 1928. Class 6.

Lord Baltimore Baked Ham Company. (See Levy, Cornelius A.)

Lucille Chemical Company, Los Angeles, Calif. Paints and painters' material. 246,305; Sept. 4; Serial No. 264,174; published June 19, 1928. Class 16.

Luxite Silk Products Company, Milwaukee, Wis. Glove-silk underwear. 246,310; Sept. 4; Serial No. 243,443; published May 15, 1928. Class 39.

MacLaughlin-Sweet, Inc., Auburn, Me. Leather shoes. 246,320; Sept. 4; Serial No. 230,555; published May 29, 1928. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Underthings for women and children. 246,282; Sept. 4; Serial No. 261,823; published May 8, 1928. Class 39.

Madelon Modes, Inc., New York, N. Y. Bathing suits. 246,390; Sept. 4; Serial No. 262,102; published May 15, 1928. Class 39.

Marathon Paper Mills Company. (See Menasha Printing and Carton Company, assignor.)

Marsh, M., & Son, Wheeling, W. Va. Stogies. 71,782; renewed Dec. 15, 1928.

Maury-Cole Company, Memphis, Tenn. Coffee. 246,377; Sept. 4; Serial No. 265,673; published June 19, 1928. Class 46.

May Hosiery Mills, Inc., Burlington, N. C. Hosiery. 246,383; Sept. 4; Serial No. 262,238; published May 15, 1928. Class 39.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Magnesium hydroxide. 246,190; Sept. 4; Serial No. 262,751; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. General tonic. 246,191–2; Sept. 4; Serial Nos. 262,748–9; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment. 246,193–5; Sept. 4; Serial Nos. 262,745–7; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment. 246,196; Sept. 4; Serial No. 262,735; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle. 246,197; Sept. 4; Serial No. 262,731; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment. 246,198; Sept. 4; Serial No. 262,729; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle. 246,199; Sept. 4; Serial No. 262,728; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Magnesium hydroxide. 246,229; Sept. 4; Serial No. 263,493; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Antiseptic ointment. 246,230; Sept. 4; Serial No. 263,492; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Eyewash. 246,231; Sept. 4; Serial No. 263,491; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. General tonic. 246,346; Sept. 4; Serial No. 264,454; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Alternative general tonics and laxatives. 246,396–7; Sept. 4; Serial Nos. 263,488–9; published June 12, 1928. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Preparation for the relief of indigestion. 246,398; Sept. 4; Serial No. 263,487; published June 12, 1928. Class 6.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Marathon Paper Mills Company, Rothschild, Wis. Empty paper containers and cartons for ice cream, etc. 246,248; Sept. 4; Serial No. 257,300; published June 26, 1928. Class 2.

Mewhinney, A. B., Co. Inc., doing business as Mewhinney's, Terre Haute, Ind. Candy. 246,247; Sept. 4; Serial No. 257,301; published Dec. 27, 1927. Class 46.

Michel, Joseph, & Co., New Orleans, La. Shrimp cocktail in glass jars. 246,402; Sept. 4; Serial No. 263,411; published June 19, 1928. Class 46.

Michigan Candy Co. (See Carpenter Cook Co.)

Mid-Columbia Cold Storage Corporation, New York, N. Y., and Hood River, Oreg. Apples and pears. 246,252; Sept. 4; Serial No. 256,133; published Dec. 27, 1927. Class 46.

Mid-Continent Mfg. Co. (See Oberman, D. M., Mfg. Co.)

Miller, Albert & Company, Chicago, Ill. Fresh potatoes. 246,153; Sept. 4; Serial No. 266,009; published June 19, 1928. Class 46.

Millette, Emma C., doing business as Buffalo Cloth Weaving Company, Buffalo, N. Y. Overcoats, topcoats, reefers, etc. 246,321; Sept. 4; Serial No. 228,886; published May 22, 1928. Class 39.

Millville Manufacturing Company, The, Philadelphia, Pa. Dyed cotton piece goods. 71,831; renewed Dec. 15, 1928.

Mint Gum Company, The, New York, N. Y. Chewing gum. 246,317; Sept. 4; Serial No. 237,379; published Nov. 2, 1926. Class 46.

Mitchell Hosiery Mills, now, by change of name, Archer Hosiery Mills, Columbus, Ga. Hosiery. 246,306; Sept. 4; Serial No. 244,945; published Apr. 19, 1927. Class 39.

Montaperto, Giuseppe, Brooklyn, N. Y. Food products. 246,457; Sept. 4. Class 46.

Montgomery Ward & Co., Incorporated, Chicago, Ill. Automobile tires. 246,154; Sept. 4; Serial No. 265,981; published June 19, 1928. Class 35.

Morris, E., Mfg. Co., Detroit, Mich. Razors and shears. 246,423–4; Sept. 4; Serial Nos. 262,864–5; published June 26, 1928. Class 23.

Morris, E., Mfg. Co., Detroit, Mich. Razors and shears. 246,434; Sept. 4; Serial No. 262,866; published Jan. 26, 1928. Class 23.

Mulford, H. K., Company, Philadelphia, Pa. Biological products. 246,226; Sept. 4; Serial No. 263,555; published June 12, 1928. Class 6.

Munz Spralawn Corporation, Detroit, Mich. Sprinklers, automatic control valves, and drain valves. 246,352; Sept. 4; Serial No. 264,179; published June 19, 1928. Class 13.

Musante, G. B., San Jose and San Francisco, Calif. Fresh vegetables. 246,361; Sept. 4; Serial No. 263,882; published June 19, 1928. Class 46.

Naamlooze Vennootschap E. Noack's Koninklijke Fijne Vleeschwaren- en Conserven-Fabrieken, Amersfoort, Netherlands. Sausages Frankfort style. 246,243; Sept. 4; Serial No. 257,592; published June 26, 1928. Class 46.

Nachman Spring-Filled Company, Chicago, Ill. Furniture cushions. 246,141; Sept. 4; Serial No. 264,771; published June 26, 1928. Class 32.

National Department Stores Inc., New York, N. Y. Suits and coats for men and boys, dresses and coats for women, hosiery, gloves, etc. 246,327; Sept. 4; Serial No. 260,517; published Nov. 17, 1925. Class 39.

National Enameling and Stamping Company, Milwaukee, Wis. Metallic waste paper baskets, garbage cans, match safes, etc. 246,166; Sept. 4; Serial No. 259,863; published June 26, 1928. Class 2.

National Fabric & Finishing Company, Boston, Mass., and New York, N. Y. Printed cotton piece goods. 246,263; Sept. 4; Serial No. 266,612; published June 26, 1928. Class 42.

National Fabric & Finishing Company, Boston, Mass., and New York, N. Y. Printed cotton piece goods. 246,264; Sept. 4; Serial No. 266,610; published June 26, 1928. Class 42.

National Herb Company, The, Washington, D. C. Remedies for certain diseases. 69,592; renewed June 23, 1928.

National Licorice Company, Brooklyn, N. Y., and Philadelphia, Pa. Licorice confectionery. 246,279; Sept. 4; Serial No. 261,903; published June 19, 1928. Class 46.

National Textile Distributors Corporation, New York, N. Y. Athletic underwear, vests, bloomers, etc. 246,210; Sept. 4; Serial No. 259,569; published May 8, 1928. Class 39.

Naugatuck Chemical Company, The, New York, N. Y. Dinitrophenyl dimethyl dithiocarbamate. 246,347; Sept. 4; Serial No. 264,382; published June 12, 1928. Class 6.

Naugatuck Chemical Company, The, New York, N. Y. Chemical preparation. 246,413; Sept. 4; Serial No. 263,173; published June 12, 1928. Class 6.

Navasky, Alexander, doing business as The Sturdibilt Co., New York, N. Y. Suits and overcoats. 246,410; Sept. 4; Serial No. 263,278; published May 22, 1928. Class 39.

New Jersey Asbestos Company, The, New York, N. Y. Fibrous sheet packings. 246,365; Sept. 4; Serial No. 265,917; published June 19, 1928. Class 35.

New York Bottling Co. Inc., New York, N. Y. Carbonated beverages. 246,165; Sept. 4; Serial No. 259,864; published June 19, 1928. Class 45.

New York Merchandise Company, New York, N. Y. Shoes, bathing caps, bloomers, neckwear, neckties, mufflers, etc. 246,319; Sept. 4; Serial No. 232,034; published May 15, 1928. Class 39.

Nisenson, Charles, Newark, N. J. Hats and caps. 246,295; Sept. 4; Serial No. 261,015; published May 8, 1928. Class 39.

Noveck, Morris, doing business as Dermatox Chemical Co., New Britain, Conn. Skin lotion and an antiseptic toilet cream. 246,132; Sept. 4; Serial No. 265,000; published June 12, 1928. Class 6.

Nugent, B., & Bro. D. G. Co., St. Louis, Mo. Men's and boys' clothing. 246,460; Sept. 4, 1928. Class 39.

Oberman, D. M., Mfg. Co., doing business as Mid-Continent Mfg. Co., Jefferson City, Mo. Coats, overalls, jumpers, etc. 246,333; Sept. 4; Serial No. 260,747; published May 8, 1928. Class 39.

Olewitz, J., and Son, New York, N. Y. Knickers and trousers. 246,336; Sept. 4; Serial No. 260,582; published May 8, 1928. Class 39.

O-Siend-O, Incorporated, Hollywood, Hollywood, Los Angeles, Calif. Reducing cream. 246,420; Sept. 4; Serial No. 262,377; published June 5, 1928. Class 6.

Paalman Furniture Company, Grand Rapids, Mich. Tea tables and wagons. 246,322; Sept. 4; Serial No. 227,035; published June 26, 1928. Class 32.

Pan-American Chemical Co. (See Jessen, Loyd A.)

Pavelka Brothers Company, The, Cleveland, Ohio. Ham, bacon, and sausages. 246,185; Sept. 4; Serial No. 245,805; published June 19, 1928. Class 46.

Pendleton Woolen Mills, Portland, Oreg. Mackinaws, overcoats, stockings, etc. 246,430; Sept. 4; Serial No. 262,816; published May 29, 1928. Class 39.

Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 246,461; Sept. 4. Class 42.

Penn Beverage Company. (See Consumers Brewing Company, assignor.)

Penn Electric Switch Company, Des Moines, Iowa. Automatic electric switches. 246,458; Sept. 4. Class 21.

Perfect Circle Company, The, Hagerstown, Ind. Piston rings. 246,364; Sept. 4; Serial No. 265,927; published June 19, 1928. Class 35.

Perfection Garment Company, Martinsburg, W. Va. Dresses and aprons. 246,406; Sept. 4; Serial No 263,341; published May 22, 1928. Class 39.

Perkins Dry Goods Company, Dallas, Tex. Men's and boys' dress clothing. 246,456; Sept. 4. Class 39.

Perrin Glove Company, Inc., New York, N. Y. Leather gloves. 246,405; Sept. 4; Serial No. 263,343; published May 15, 1928. Class 39.

Peters, Gerrit, doing business as Peters Chemical Company, Detroit, Mich. Roach powder. 246,145; Sept. 4; Serial No. 247,906; published July 5, 1927. Class 6.

Petersen Oven Company, The, Chicago, Ill. Bakers' ovens. 246,128; Sept. 4; Serial No. 265,118; published June 19, 1928. Class 34.

Phelan Grocery Company, Beaumont, Tex. Coffee. 246,110; Sept. 4; Serial No. 265,558; published June 26, 1928. Class 46.

Pioneer Shoe Manufacturing Company, The, Kansas City, Mo. Shoes and boots. 246,452; Sept. 4. Class 39.

Pollak, Henry, Inc., New York, N. Y. Felt hats. 246,283; Sept. 4; Serial No. 261,815; published May 8, 1928. Class 39.

Pollak, Henry, Inc., New York, N. Y. Felt hats. 246,341; Sept. 4; Serial No. 260,289; published May 8, 1928. Class 39.

Porter, H. K., Inc., Everett, Mass. Bolt clippers, rod cutters, wire cutters, etc. 246,233; Sept. 4; Serial No. 266,269; published June 19, 1928. Class 23.

Poulos, Thomas, Youngstown, Ohio. Laxative tonic and alterative used in the treatment of rheumatism, etc. 246,301; Sept. 4; Serial No. 263,787; published June 5, 1928. Class 6.

Priscilla Braid Co., Central Falls, R. I. Awning braid, other braid, fringe, and tapes. 246,260; Sept. 4; Serial No. 262,178; published June 5, 1928. Class 40.

Progressive Underwear Co., New York, N. Y. Ladies' silk and rayon textile underwear. 246,419; Sept. 4; Serial No. 262,412; published May 15, 1928. Class 39.

Rallet Corporation of America, doing business as Degez, New York, N. Y. Perfumes and toilet waters. 246,345; Sept. 4; Serial No. 264,479; published June 12, 1928. Class 6.

Ray, Richard, doing business as Emerson Medicine Company, Kansas City, Mo. Remedy for certain diseases. 70,852; renewed Oct. 13, 1928.

Regal Brassiere Company, Inc., New York, N. Y. Corsets, brassières, and girdles. 246,422; Sept. 4; Serial No. 262,259; published May 15, 1928. Class 39.

Regina Products, Inc., Spokane, Wash. Beverages. 246,109; Sept. 4; Serial No. 265,563; published June 26, 1928. Class 45.

Reinau, Erich, Berlin-Steglitz, Germany. Apparatus for the burning of fertilizing material. 246,240; Sept. 4; Serial No. 266,098; published June 26, 1928. Class 34.

Remington Typewriter Company, Ilion and New York, N. Y. Typewriting machines. 246,332; Sept. 4; Serial No. 260,851; published June 26, 1928. Class 23.

Repetti, Inc., Long Island City, N. Y. Candy. 246,108; Sept. 4; Serial No. 265,565; published June 19, 1928. Class 46.

Richardson Silk Company, Chicago, Ill. Hosiery. 246,307; Sept. 4; Serial No. 244,574; published May 15, 1928. Class 39.

Ringwald, Ernest H., doing business as Zino-Septic Laboratories, Chillicothe, Ohio. Antiseptic solution. 246,362; Sept. 4; Serial No. 263,830; published June 5, 1928. Class 5.

Riverside Mills, Augusta, Ga. Cotton waste. 72,386–7; renewed Jan. 19, 1929.

Rockford Steel Furniture Company, Rockford, Ill. Steel furniture. 246,329 30; Sept. 4; Serial Nos. 260,912–13; published June 26, 1928. Class 32.

Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Vegetable fat. 246,328; Sept. 4; Serial No. 260,963; published June 26, 1928. Class 46.

Roseknit Hosiery Company, Sumter, S. C. Hosiery. 246,432; Sept. 4; Serial No. 262,934; published May 29, 1928. Class 39.

Rosenberg, Henry, New York, N. Y. Beaver fur pelts. 246,450; Sept. 4. Class 1.

Roxy Perfumer. (See Glickman, Abraham E.)

Royal Manufacturing Company, Allentown, Pa. Children's underwear. 246,186; Sept. 4; Serial No. 245,660; published May 29, 1928. Class 39.

Royal Ulster Rug Company. (See Baruchson, Samuel.)

Rubinstein, Helena, Inc., New York, N. Y. Face lotions. 246,259; Sept. 4; Serial No. 254,396; published June 5, 1928. Class 6.

Rudge-Whitworth Limited, Coventry, England. Cycles. 32,455; renewed Jan. 31, 1929.

Sacher, Clarence B., doing business as Fluffe Co. Inc., Dallas, Tex. Antiseptic wash and douche. 246,140; Sept. 4; Serial No. 264,779; published June 12, 1928. Class 6.

Salterini, John B., New York, N. Y. Parchment lamp shades. 246,294; Sept. 4; Serial No. 261,020; published June 26, 1928. Class 34.

Sands Manufacturing Company, The, doing business as Badger Heater Co., Cleveland, Ohio. Gas fluid heaters. 246,135; Sept. 4; Serial No. 264,918; published June 26, 1928. Class 34.

Schenuit, Frank G., Baltimore, Md. Inner tubes for pneumatic tires. 246,308; Sept. 4; Serial No. 243,787; published June 26, 1928. Class 35.

Schieren, Chas. A., Company, New York, N. Y., and Bristol, Tenn. Belt dressing. 72,420; renewed Jan. 26, 1929.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Heel pad. 246,389; Sept. 4; Serial No. 262,127; published May 22, 1928. Class 39.

Seekenep Silk Company, New York, N. Y. Rayon and silk piece goods. 246,144; Sept. 4; Serial No. 263,288; published June 26, 1928. Class 42.

Seekenep Silk Company, New York, N. Y. Rayon and cotton piece goods. 246,408–9; Sept. 4; Serial Nos. 263,289–90; published Jan. 26, 1928. Class 42.

Seligman & Katz, New York, N. Y. Coats. 246,147; Sept. 4; Serial No. 250,043; published May 15, 1928. Class 39.

Senack Shoe Company, St. Louis, Mo. Shoes. 246,438; Sept. 4; Serial No. 263,015; published May 15, 1928. Class 39.

Sexauer, J. A., Manufacturing Co., Inc., New York, N. Y. Tank-valve bulbs. 246,286; Sept. 4; Serial No. 261,724; published June 26, 1928. Class 13.

Sexton Manufacturing Company, Fairfield, Ill. Men's and children's underwear and nightwear. 246,401; Sept. 4; Serial No. 263,431; published May 29, 1928. Class 39.

Shimer, Samuel J., & Sons, Inc., Milton, Pa. Cutter and matcher heads. 72,408; renewed Jan. 26, 1929.

Shirek & Hirsch, New York, N. Y. Coats, vests, trousers, etc. 246,206; Sept. 4; Serial No. 262,532; published May 15, 1928. Class 39.

Shoemaker, James W., Centralia, Wash. Chemical for eradicating weeds. 246,446; Sept. 4. Class 6.

Siedenfuss, John C., doing business as Frute Nips Co., Blue Island, Ill. Laxative. 246,201; Sept. 4; Serial No. 262,639; published June 12, 1928. Class 6.

Simon, Franklin, & Co. Inc., New York, N. Y. Clothing. 246,313; Sept. 4; Serial No. 240,816; published May 15, 1928. Class 39.

Simplex Paper Box Company, Lititz, Pa. Paper boxes. 246,123; Sept. 4; Serial No. 265,239; published June 19, 1928. Class 2.

Simpson, Wm., Sons & Co., Philadelphia, Pa. Dresses. 246,429; Sept. 4; Serial No. 262,823; published May 15, 1928. Class 39.

Singleton, Gray, Fort Meade, Fla. Citrus-fruit juice. 246,232; Sept. 4; Serial No. 266,277; published June 19, 1928. Class 45.

Slater, S., and Sons, Inc., Webster, Mass. Cotton, wool, linen, etc., piece goods. 246,404; Sept. 4; Serial No. 263,353; published June 19, 1928. Class 42.

Slater, S., and Sons, Inc., Webster, Mass. Piece goods. 246,435; Sept. 4; Serial No. 262,973; published June 19, 1928. Class 42.

Smith, Barnett J., doing business as Sunshine Clothing Mfg. Co., San Antonio, Tex. Pants. 246,359; Sept. 4; Serial No. 263,975; published May 15, 1928. Class 39.
Smith Brothers Importers Inc., New York, N. Y. Cravats and mufflers. 246,403; Sept. 4; Serial No. 263,354; published May 29, 1928. Class 39.
Smith, C. & B., Wolverhampton, England. Machines for mixing granular materials. 246,278; Sept. 4; Serial No. 261,916; published June 19, 1928. Class 23.
South, Dorothy, Leg-Gluv Corporation, New York, N. Y. Leggings. 246,200; Sept. 4; Serial No. 262,706; published May 29, 1928. Class 39.
Southern Tire and Rubber Company, Augusta, Ga. Auto tires and tubes. 246,130; Sept. 4; Serial No. 265,071; published June 26, 1928. Class 35.
Southland Manufacturing Company, Wilmington, N. C. Shirts, blouses, underwear, etc. 246,455; Sept. 4. Class 39.
Speed-Boy Mfg Co. (See Kruckow, Frederick N.)
State Textile Corporation, New York, N. Y. Hosiery. 246,276; Sept. 4; Serial No. 261,993; published May 22, 1928. Class 39.
Stebbins, Catherine, San Francisco, Calif. Neckties. 246,244; Sept. 4; Serial No. 257,447; published May 29, 1928. Class 39.
Stern-Auer Company, The, Cincinnati, Ohio. Shoes. 246,258; Sept. 4; Serial No. 254,477; published May 15, 1928. Class 39.
Stewart-Dawes Shoe Co., Los Angeles, Calif. Shoes. 246,340; Sept. 4; Serial No. 260,297; published May 8, 1928. Class 39.
Stone and Forsyth Company, Boston, Mass. Twines and ropes. 246,262; Sept. 4; Serial No. 266,689; published June 26, 1928. Class 7.
Stover Manufacturing Company, to Stover Manufacturing & Engine Co., Freeport, Ill., successor. Windmills. 32,457; renewed Jan. 31, 1929.
Stover Manufacturing Company, to Stover Manufacturing & Engine Co., Freeport, Ill., successor. Feed mills. 32,458; renewed Jan. 31, 1929.
Stover Manufacturing Company, to Stover Manufacturing & Engine Co., Freeport, Ill., successor. Horsepowers. 32,459; renewed Jan. 31, 1929.
Stover Manufacturing Company, to Stover Manufacturing & Engine Co., Freeport, Ill., successor. Spring hinges. 32,460; renewed Jan. 31, 1929.
Stroh Brewery Company, The, to The Stroh Products Co., Detroit, Mich., successor. Beer, brown stout, porter, and malt extract. 71,606; renewed Dec. 1, 1928.
Studio Hosiery Company, St. Louis, Mo. Hosiery. 246,331; Sept. 4; Serial No. 260,861; published May 22, 1928. Class 39.
Sturdibilt Co., The. (See Navasky, Alexander.)
Sturdy'a, J. F., Sons Co., Attleboro Falls, Mass. Pyrophoric pocket cigar lighters. 246,106; Sept. 4; Serial No. 265,175; published June 19, 1928. Class 34.
Sturtevant, B. F., Company, Hyde Park, Boston, Mass. Ventilating fans. 246,117; Sept. 4; Serial No. 265,416; published June 19, 1928. Class 34.
Sunshine Clothing Mfg. Co. (See Smith, Barnett J.)
Susquehanna Silk Mills, New York, N. Y. Rayon and silk piece goods. 246,107; Sept. 4; Serial No. 265,588; published June 26, 1928. Class 42.
Swetland Publications, Inc., Los Angeles, Calif. Publication issued monthly. 246,212; Sept. 4; Serial No. 259,186; published Mar. 13, 1928. Class 38.
Swift & Company, Chicago, Ill. Lard. 246,300; Sept. 4; Serial No. 263,792; published June 26, 1928. Class 46.
Syracuse Chilled Plow Co., assignor to Syracuse Chilled Plow Co. Inc., Syracuse, N. Y. Plows and their parts. 31,466; renewed Apr. 12, 1928.
Thomas, Paul A., Chicago, Ill. Selective medicinal preparation. 246,355; Sept. 4; Serial No. 264,129; published June 12, 1928. Class 6.
Toplitz, Louis, New York, N. Y. Stockings. 246,303; Sept. 4; Serial No. 263,734; published May 22, 1928. Class 39.
Tower, A. J., Company, Portland, Me., and Boston, Mass., assignor to A. J. Tower Company, Boston, Mass. Waterproof textile oiled fabrics. 72,345; renewed Jan. 19, 1929.
Trippe, Barker & Co., New York, N. Y. Dresses for women and children. 246,428; Sept. 4; Serial No. 262,827; published May 29, 1928. Class 39.
U. S. Wind Engine & Pump Co., Batavia, Ill. Wind engines and pumps. 246,324; Sept. 4; Serial No. 217,433; published June 26, 1928. Class 23.
Union Fork & Hoe Company, The, Columbus, Ohio. Fish forks, hayforks, clover forks, etc. 246,236; Sept. 4; Serial No. 266,228; published June 26, 1928. Class 23.
Union Fork & Hoe Company, The, Columbus, Ohio. Hand weeders. 246,237; Sept. 4; Serial No. 266,227; published June 19, 1928. Class 23.
Union Joe Manufacturing Co., Inc., New Orleans, La. Suits. 246,189; Sept. 4; Serial No. 262,782; published May 15, 1928. Class 39.
United Accounting Machines, Inc., St. Louis, Mo. Calculating machines. 246,267; Sept. 4; Serial No. 266,567; published June 26, 1928. Class 26.
United Drug Company, Boston, Mass. Antiseptic, deodorizing, or prophylactic solution. 246,129; Sept. 4; Serial No. 265,076; published June 12, 1928. Class 6.
United Kosher Sausage Company, Chicago, Ill. Salami, bologna, pepper meat, etc. 246,312; Sept. 4; Serial No. 241,590; published June 19, 1928. Class 46.
United States Bedding Co., The, St. Paul, Minn. Mattresses. 246,271; Sept. 4; Serial No. 266,339; published June 26, 1928. Class 32.
Useful Products Company, West Orange, N. J. Doorchecks. 246,253; Sept. 4; Serial No. 255,617; published June 26, 1928. Class 13.
Utica Knitting Company, Utica, N. Y. Men's underwear. 246,202; Sept. 4; Serial No. 262,636; published May 8, 1928. Class 39.
V. & M. Products Co., Galesburg, Mich. Fertilizer. 246,122; Sept. 4; Serial No. 265,243; published June 19, 1928. Class 10.
V & V Half Hour Washing Fluid Co., South Greensburg, Pa. Washing fluid for use in removing stains from clothes. 246,225; Sept. 4; Serial No. 263,569; published June 5, 1928. Class 6.
Valentine, Samuel, Co., Inc., New York, N. Y. Shirts, nightshirts, and pajamas. 246,242; Sept. 4; Serial No. 257,764; published May 22, 1928. Class 39.
Vanadium Corporation of America, Bridgeville, Pa. Metallic oxides and salts. 246,412; Sept. 4; Serial No. 263,239; published June 5, 1928. Class 6.
Vendometer Corporation, New York, N. Y. Orange beverage, concentrates and syrups for making same. 246,291; Sept. 4; Serial No. 261,409; published June 26, 1928. Class 45.
Vet Products Laboratory Inc., Westbury, N. Y. Veterinary remedies. 246,298; Sept. 4; Serial No. 263,798; published June 5, 1928. Class 6.
Vet Products Laboratory Inc., Westbury, N. Y. Lactic acid. 246,299; Sept. 4; Serial No. 263,797; published June 5, 1928. Class 6.
Visking Corporation, The, Chicago, Ill. Sausage casings. 246,105; Sept. 4; Serial No. 265,392; published June 12, 1928. Class 46.
Vitamineral Products Co., Peoria, Ill. Medicinal preparation for expelling worms from all livestock and poultry. 246,179; Sept. 4; Serial No. 250,481; published June 12, 1928. Class 6.
Von Lengerke & Antoine, Chicago, Ill. Sleeping-bag garments, hats, caps, etc. 246,285; Sept. 4; Serial No. 261,778; published May 8, 1928. Class 39.
Wales Novelties Corp., New York, N. Y. Friction cigar and cigarette lighters. 246,137; Sept. 4; Serial No. 264,855; published June 19, 1928. Class 34.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Ladies' shoes. 246,411; Sept. 4; Serial No. 263,242; published May 15, 1928. Class 39.
Ward-Love Pump Corporation, Rockford, Ill. Water-softening apparatus and parts therefor. 246,182; Sept. 4; Serial No. 246,453; published June 26, 1928. Class 23.
Ward Owsley Co. Inc., Aberdeen, S. Dak. Candy. 246,235; Sept. 4; Serial No. 266,230; published June 19, 1928. Class 46.
Waterloo & Cedar Falls Union Mill Company, The, assignor to Waterloo Mills Company, Waterloo, Iowa. Wheat flour. 70,697; renewed Sept. 22, 1928.
Watts, Ridley & Company, New York, N. Y. Cotton piece goods. 246,239; Sept. 4; Serial No. 266,100; published June 26, 1928. Class 42.
Weber Showcase & Fixture Co., Inc., Los Angeles, Calif. Show cases, store fixtures. 246,241; Sept. 4; Serial No. 256,983; published June 19, 1928. Class 32.
Weber, William A., Mankato, Minn. Live poultry. 246,139; Sept. 4; Serial No. 264,786; published June 26, 1928. Class 46.
Webster, F. S., Company, Boston, Mass. Carbon papers bound in time-saving binders. 246,357; Sept. 4; Serial No. 264,061; published June 26, 1928. Class 11.
Wechsler-Barber Silk Company, Inc., New York, N. Y. Silk, and silk and cotton, and silk and wool mixture fabrics in the piece. 246,374; Sept. 4; Serial No. 265,745; published June 26, 1928. Class 42.
Wellcome, Henry S., London, England, assignor, by mesne assignments, to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Semisolid toilet preparation. 71,267; renewed Nov. 10, 1928.
Wellcome, Henry S., London, England, assignor, by mesne assignments, to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Photographic developers and accelerators. 71,460; renewed Nov. 24, 1928.
Western Block Co., Lockport, N. Y. Tackle blocks and parts therefor. 246,219; Sept. 4; Serial No. 266,288; published June 19, 1928. Class 23.
Western Clock Mfg. Co., The, assignor to Western Clock Company, La Salle, Ill. Clocks and watches. 72,178; renewed Jan. 5, 1929.
Western Rawhide & Belting Co., Milwaukee, Wis. Round leather belting. 246,354; Sept. 4; Serial No. 264,130; published June 19, 1928. Class 35.
White-Bear Corporation, Indianapolis, Ind. Dishwashing machines. 246,371; Sept. 4; Serial No. 265,868; published June 19, 1928. Class 23.
Whitney Sporting Goods Company, The, Denver, Colo. Fishhook flies. 72,441; renewed Jan. 26, 1929.
Wide Awake Shirt Company Inc., Reading, Pa. Work shirts. 246,439; Sept. 4; Serial No. 262,990; published May 22, 1928. Class 39.
Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Liquid-fuel-burning devices. 246,114; Sept. 4; Serial No. 265,512; published June 19, 1928. Class 34.

Wilson, Albert A., doing business as Komfort Mfg. Co., Minneapolis, Minn. Automobile heaters. 246,121; Sept. 4; Serial No. 265,247; published June 26, 1928. Class 19.
Windsor Mills, Inc., The, Philadelphia, Pa. Hosiery. 246,426–7; Sept. 4; Serial No. 262,835–6; published May 29, 1928. Class 39.
Winget Kickernick Company, Minneapolis, Minn. Underskirts, underslips, and petticoats. 246,254; Sept. 4; Serial No. 258,245; published May 8, 1928. Class 39.
Wise, A., Chemical Company, The, Newcastle, Ind. Liver tablets. 246,302; Sept. 4; Serial No. 263,738; published June 5, 1928. Class 6.
Wohl, M. J., & Co., Inc., Long Island City, N. Y. Electric arc lamps. 246,469; Sept. 4. Class 21.
Wonder Brand Food Co. (See Koch, Chas. J.)
Woodrow Washing Machine Company, Pella, Iowa. Laundry washing machines. 246,425; Sept. 4; Serial No. 262,837; published June 19, 1928. Class 24.
Woolf Brothers, Inc., Kansas City, Mo. 'Ladies' hosiery. 246,176; Sept. 4; Serial No. 251,705; published May 15, 1928. Class 39.
Woolley, Joseph W., Columbus, Ohio. Enameled zinc plates. 246,445; Sept. 4. Class 12.
Wooster, Edward R., doing business as Honeyland Candy Shoppe, North Easton, Mass. Candy. 246,373; Sept. 4; Serial No. 265,821; published June 19, 1928. Class 46.
Wurlitzer Grand Piano Company, De Kalb, Ill. Pianos. 246,465; Sept. 4. Class 36.
Zino-Septic Laboratories. (See Ringwald, Ernest H.)
Zion's Co-Operative Mercantile Institution, Salt Lake City, Utah. Overalls, coveralls, rompers, etc. 246,311; Sept. 4; Serial No. 242,764; published May 8, 1928. Class 39.
Zweifel, H. Jacob, doing business as Home-Ade Products Company, New Glarus, Wis. Sirups and concentrates. 246,348; Sept. 4; Serial No. 264,342; published June 19, 1928. Class 45.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Ace Manufacturing Co., Portland, Me. Ace Cleaner Cleans Everything. For Preparation for General Cleaning. 34,513; Sept. 4.
Alfieri, Giuseppe, New York, N. Y. Sigari Fiume. For Cigars. 34,514; Sept. 4.
Allen Brothers Inc., Omaha, Nebr. Sun-Tex. For a Textile Product Which Promotes Growth. 34,515; Sept. 4.
American Oil Corporation, Jackson, Mich. SavaPowr Gear Lubricant. For Gear Lubricant. 34,516; Sept. 4.
American Oil Corporation, Jackson, Mich. SavaPowr Hi-Pressure Lubricant. For High-Pressure Lubricant. 34,517; Sept. 4.
American Oil Corporation, Jackson, Mich. SavaPowr Motor Oil. For Motor Oil. 34,518; Sept. 4.
Badger Ice Cream Company, Kenosha, Wis. Badger. For Ice Cream. 34,519; Sept. 4.
Boogher, Susan M., Strafford, Pa. Ed-U-Game. For Educational Toys. 34,520; Sept. 4.
Cressler, Edward P., Newton, Kans. All Purpose Mount. For Mounts for X-Ray Films Used in Dental Surgery. 34,521; Sept. 4.
Feeser Macaroni Company, Harrisburg, Pa. Naborhood. For Macaroni and Similar Alimentary Food Products. 34,522; Sept. 4.
Franck, Clemence, San Francisco, Calif. The Last Word in a Powder-Puff. For Powder Puffs. 34,523; Sept. 4.
Given, John M., Company, The, New York N. Y., Chicago, Ill., and Pittsburgh, Pa. Pandora Stockings. For Hosiery. 34,524; Sept. 4.
Greenstein & Josephson, New York, N. Y. The Invisible Adjustable. For Linings for Caps for Men, Boys, and Children. 34,525; Sept. 4.
Heidelnkaemper Bros., Atchison, Kans. Heart of America. For Ginger Ale. 34,526; Sept. 4.
Hillside Packing Association, Lindsay, Calif. Valley Vista. For Fresh Oranges. 34,527; Sept. 4.
Huber, Frederick W., Inc., New York, N. Y. Sturup. For Chocolate Malted Powder. 34,528; Sept. 4.
La Brea Securities Co., Los Angeles, Calif. V-O-G. For Eggs. 34,529; Sept. 4.
Lucas Ranching Company, Cucamonga, Calif. Lucas Blue & Gold. For Fresh Grapes. 34,530; Sept. 4.
Milwaukee Paper Box Co., The, Milwaukee, Wis. Red Circle Candy Co. White Tower Assorted Chocolates. For Candy. 34,531; Sept. 4.
Mineral-Lac Paint Co., Inc., Philadelphia, Pa. Stop-A-Leak. For Roof Coating. 34,532; Sept. 4.
Nack, Frank, jr., doing business as Nack Manufacturing Company, Ferguson, Mo. Clean Up Cleanser. For Cleansing Powder. 34,533; Sept. 4.
Nannt, Inc., New York, N. Y. Savon Nannt For the Woman Who Can Afford a Better Soap. For Soap. 34,534; Sept. 4.
Pini, Leon, Wrentham, Mass. Pini Cheese. For Cheese. 34,535; Sept. 4.
Pratt-Low Preserving Co., Santa Clara, Calif. Joanna. For Canned Asparagus. 34,536; Sept. 4.
Reichardt Cocoa & Chocolate Co., Inc., New Brunswick, N. J. Reichardt's Chocolate Covered Cherries. For Candy. 34,537; Sept. 4.
Richman & Samuels Inc., New York, N. Y. Right Service R S. For Head Lettuce. 34,538; Sept. 4.
Schalk Chemical Co., Los Angeles, Calif. Exit Paint Cleaner. For Composition for Cleaning Paint. 34,539; Sept. 4.
Schlitz, Jos., Beverage Company, Milwaukee, Wis. Schlitz Malt-Famous. For Malt Syrup. 34,540; Sept. 4.
Shakeshaft, Marion D., Topeka, Kans. More Than a Toy. For Amusement Device. 34,541; Sept. 4.
Stollwerck, A. N., Camden, N. J. Nuts and Raisins. For Chocolate Bar Containing Nuts and Raisins. 34,542; Sept. 4.
Sturges Multiple Battery Corp., Jamaica, N. Y. Lord Baltimore Standard Radio "B" Battery. For Radio "B" Batteries. 34,543; Sept. 4.
Surety Manufacturing Co., Chicago, Ill. Surety Powdered Face Soap. For Dry Powdered Toilet Soap. 34,544; Sept. 4.
Young, I. & C., Inc., New York, N. Y. Electric Christmas Tree Outfit. For Electric Christmas-Tree Outfits. 34,545; Sept. 4.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

C. G. Spring & Bumper Company, The, Detroit, Mich. Art Bumpers By C. G. For Vehicle Bumpers. 11,192; Sept. 4.
C. G. Spring & Bumper Company, Detroit, Mich. Artistic Bumpers. For Vehicle Bumpers. 11,193; Sept. 4.
Collingbourne Mills, Inc., Elgin, Ill. Collingbourne's Lustex Floss. For Darning Cotton. 11,194; Sept. 4.
Eskimo Pie Corporation, Louisville, Ky. Swim for Shore—It's Eskimo Pie Time! For Frozen Confections. 11,195; Sept. 4.
Heinz, J. H., Company, Pittsburgh, Pa. Careful Boy!—It's Spread Thick—That Moist and Creamy Heinz Peanut Butter. For Peanut Butter. 11,196; Sept. 4.
Hills Bros., San Francisco, Calif. Adform 85. For Coffee. 11,197; Sept. 4.
Hills Bros., San Francisco, Calif. Adform 84. For Coffee. 11,198; Sept. 4.
New Haven Clock Company, The, New Haven, Conn. Handsome, Dependable and Sturdy, Tip-Top is a Wrist-Watch You'll be Proud to Own. For Watches. 11,199; Sept. 4.
New Haven Clock Company, New Haven, Conn. Tip-Top is a Fine Wrist-Watch at any Price—It Costs Only $3.50. For Watches. 11,200; Sept. 4.
New Haven Clock Company, New Haven, Conn. Inspect Tip-Top for Yourself and be Critical. For Watches. 11,201; Sept. 4.
New Haven Clock Company, New Haven, Conn. Designed for Looks, Made for Service, Tip-Top Graces any Wrist. For Watches. 11,202; Sept. 4.
New Haven Clock Company, New Haven, Conn. Judge Tip-Top by any Standards, Put it to Any Test. For Watches. 11,203; Sept. 4.
Pennzoil Company Inc., The, Oil City, Pa. Keep Motors New—Pennzoil Safe Lubrication. For Lubricating Oils and Greases. 11,204; Sept. 4.
Universal Standard Company, Detroit, Mich. The Arlok Bushing. For Bushings. 11,205; Sept. 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Wire Company, The, New Haven, Conn. Radio hook-up wire. 268,333; Sept. 4. Class 21.
Agfa Ansco Corporation. (See Ansco Photoproducts, Inc.)
Air-Chrome Studios, Inc., Irvington, N. J. Radio loud speakers. 267,625; Sept. 4. Class 21.
Aktiebolaget Sveriges Forenade Konservfabriker, Gottenborg, Sweden. Canned fish. 267,626; Sept. 4. Class 46.
Alexander, Lester J., New York, N. Y. Pajamas, dress shirts, and textile underwear. 265,606; Sept. 4. Class 39.
Alexander Molasses Company, Cincinnati, Ohio. Liquid citrus pectin. 269,930; Sept. 4. Class 46.
Alshuler, Chas., Mfg. Co., The, Racine, Wis. Outer shirts. 268,834; Sept. 4. Class 39.
Alta Vista Company. (See De La Montanya, Pierre.)
American Broadtail Corporation, New York, N. Y. Lamb skins. 268,837; Sept. 4. Class 1.
American Crayon Company, The, Sandusky, Ohio. Wood-finishing solution. 260,786; Sept. 4. Class 16.
American Device Mfg. Company. (See Greenstreet, Oliver P.)
American Druggists Syndicate, Long Island City, N. Y. Astringents, cerates, bleach creams, etc. 270,161; Sept. 4. Class 6.
American Nuplax Corporation, Wilmington, Del. Plastic material. 265,082; Sept. 4. Class 1.
Amorskin Corporation, New York, N. Y. Soaps. 269,072; Sept. 4. Class 4.
Ansco Photoproducts, Inc., assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic cameras. 261,094; Sept. 4. Class 26.
Arden, Elizabeth, Inc., New York, N. Y. Face creams and lotions. 270,107; Sept. 4. Class 6.
Ardmore Flour & Feed Co., Ardmore, Okla. Wheat flour, corn meals, etc. 268,902; Sept. 4. Class 46.
Arnold Rosenfeld Silk Corporation, New York, N. Y. Silk piece goods. 267,316; Sept. 4. Class 42.
Arnold Rosenfeld Silk Corporation, New York, N. Y. Silk piece goods. 267,318; Sept. 4. Class 42.
Automatic Signal Corporation, New Haven, Conn. Electric traffic-control systems. 268,905; Sept. 4. Class 21.
B & J Electrical and Radio Engineering Laboratories. (See Bartkus, John A.)
Balfour, Guthrie & Co., San Francisco, Calif. Insecticide. 268,204; Sept. 4. Class 6.
Ball, F. M., & Company, San Francisco, Calif. Canned fruits and vegetables and fish. 269,274; Sept. 4. Class 46.
Baltimore Butterine Co., The, Baltimore, Md. Cooking compound. 268,264; Sept. 4. Class 46.
Barker's, Thomas H., Sons Company, Gladwyne, Pa. Spun rayon yarn. 269,572; Sept. 4. Class 43.
Barrett Company, The, New York, N. Y. Organic and inorganic chemicals. 269,935; Sept. 4. Class 6.
Bartkus, John A., doing business as B & J Electrical and Radio Engineering Laboratories, Chicago, Ill. Radio-panels. 267,335; Sept. 4. Class 21.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 269,177; Sept. 4. Class 39.
Becker, Smith & Page, Incorporated, Philadelphia, Pa. Wall paper. 269,178; Sept. 4. Class 37.
Berth Robert-Gross Inc., New York, N. Y. Cotton and linen piece goods. 269,218; Sept. 4. Class 42.
Blake, Bertram, Paper Co. Inc., New York, N. Y. Book paper. 269,710; Sept. 4. Class 37.
Blue-Belle Dress Co., New York, N. Y. Dresses. 265,827; Sept. 4. Class 39.
Blue Ribbon Products Company, assignor to Gebauer & Kimpel, Baltimore, Md. Malt syrup. 259,710; Sept. 4. Class 46.
Bohn Aluminum & Brass Corporation, Detroit, Mich. Bearings for machinery. 264,793; Sept. 4. Class 23.
Bon A Fide Products Corporation, New York and Brooklyn, N. Y. Linoleum and oilcloth floor covering, etc. 259,893; Sept. 4. Class 20.
Bonat, Samuel, & Bro., New York, N. Y. Nail polish. 270,007; Sept. 4. Class 6.
Bornstein, Emil, Inc., New York, N. Y. Watches. 269,014; Sept. 4. Class 27.
Boston Gear Works, Inc., Norfolk Downs (Quincy), Mass. Gears and pinions. 269,221; Sept. 4. Class 4.
Bosworth, Harry J., Company, Chicago, Ill. Serial publications. 269,630; Sept. 4. Class 38.
Bradley Lumber Company of Arkansas, Warren, Ark. Hardwood flooring and trim. 268,418; Sept. 4. Class 12.
Brafman Bros., Brooklyn, N. Y. Ladies' textile underwear. 265,944; Sept. 4. Class 39.
Braithwaite, Isaac, & Son, Engineers, Limited, Kendal, England. Sewing machines, felling machines, etc. 270,009; Sept. 4. Class 23.
Brener, J., Co., Boston, Mass. Bloomers, panties, step-ins, slips, etc. 267,744; Sept. 4. Class 39.
Brighton Mills, Allwood, N. J.; Shannon, Ga.; and Passaic, N. J. Netted woven cord fabrics of cotton. 260,797; Sept. 4. Class 42.

Brown & Bigelow, St. Paul, Minn. Laundry periodical. 270,109; Sept. 4. Class 38.
Brown & Bigelow, St. Paul, Minn. Real-estate periodical. 270,111; Sept. 4. Class 38.
Brown & Bigelow, St. Paul, Minn. Bank periodical. 270,112; Sept. 4. Class 38.
Brown-Dunkin Dry Goods Company, Tulsa, Okla. Dresses. 264,140; Sept. 4. Class 39.
Buckeye Steel Castings Company, The, Columbus, Ohio. Railway truck bolster, side frames, and spring planks. 269,222; Sept. 4. Class 19.
Carew Manufacturing Company, South Hadley, Mass. 269,634; Sept. 4. Class 37.
Chapin & Gould Paper Company, Springfield, Mass. Bond paper. 264,968; Sept. 4. Class 37.
Chemische Fabrik von Heyden, A. G., Radebeul, near Dresden, Germany, assignor by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Preparation for intramuscular injections. 267,933; Sept. 4. Class 6.
Chicago Flexible Shaft Company, Chicago, Ill. Portable electric appliances. 267,834; Sept. 4. Class 21.
Chi Omega Fraternity, The, Cincinnati, Ohio. Charters, illuminated mottoes, etchings, etc. 258,067; Sept. 4. Class 38.
Chipman & Company, Inc., New York, N. Y. Pianos, players, and phonographs. 264,419; Sept. 4. Class 36.
Chrysler Sales Corporation, assignor to Chrysler Corporation, Detroit, Mich. Overall jumpers. 252,314; Sept. 4. Class 39.
Cido Germ Co., The. (See Daniel, Francis E.)
Clark, Charles S., Co., New York, N. Y. Bridge score pads, etc. 267,351; Sept. 4. Class 37.
Coney Island Soda Water Co., Inc., also doing business as Teltler's Beverages, Brooklyn, N. Y. Beverages. 268,968; Sept. 4. Class 45.
Congoleum-Nairn, Inc., Kearny, N. J. Cement and paste for laying linoleum. 270,237; Sept. 4. Class 5.
Conrad & Co. Inc., Boston, Mass. Hose. 268,486; Sept. 4. Class 39.
Conrad & Co. Inc., Boston, Mass. Dresses. 268,487; Sept. 4. Class 39.
Consumers Hat Factory, Inc., Chicago, Ill. Hats. 265,035; Sept. 4. Class 39.
Cotton, John, Limited, Edinburgh, Scotland. Smoking tobacco. 252,471; Sept. 4. Class 17.
Credit Stores Magazine Publishing Co., The. (See Settel, Hyman.)
Cyano-Art Co., The. (See Lohman, Southgate L.)
Daniel, Francis E., doing business as The Cido Germ Co., Eden, Tex. Healing antiseptic. 266,793; Sept. 4. Class 6.
Davis & Thompson Company, West Allis, Wis. Drilling machines. 247,782; Sept. 4. Class 23.
Day's Tailor-D Wear, Inc., Tacoma, Wash. Trousers, suits, knickers, breeches. 264,507; Sept. 4. Class 39.
Debi and McDaniel, doing business as Joe Debi, Big Spring, Tex. Medical preparation for rheumatism. 267,125; Sept. 4. Class 6.
De La Montanya, Pierre, doing business as Alta Vista Company, San Francisco, Calif. Medicinal tonic. 266,979; Sept. 4. Class 6.
De La Montanya, Pierre, doing business as Alta Vista Company, San Francisco, Calif. Beverages. 266,980; Sept. 4. Class 45.
De La Montanya, P., doing business as Mount Rouge Company, San Francisco, Calif. Wines. 269,100; Sept. 4. Class 47.
Denver Fire Clay Company, The, Denver, Colo. Fire-brick material. 262,705; Sept. 4. Class 12.
Detroit Creamery Company, Detroit, Mich. Milk and Cream. 270,018; Sept. 4. Class 46.
Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Dorado Club Beverage Company, Los Angeles, Calif. Beverages. 269,101; Sept. 4. Class 45.
Dworetsky & Anenberg, New York and Brooklyn, N. Y. Underwear, stockings, socks, hats, caps, etc. 265,894; Sept. 4. Class 39.
Earl Fruit Company, San Francisco, Calif. Fresh fruits. 269,226; Sept. 4. Class 46.
Eastman Kodak Company, Rochester, N. Y. Photographic developers. 270,240; Sept. 4. Class 6.
Elliott, Glenn, doing business as U. S. Volunteer Air Service, New York, N. Y. Aviation books. 257,406; Sept. 4. Class 38.
Endicott Johnson Corporation, Endicott, N. Y. Leather shoes. 268,217; Sept. 4. Class 39.
Enge, Nena, doing business as Nena Lax Co., New York, N. Y. Laxative. 269,518; Sept. 4. Class 6.
Evansville Paint & Varnish Co. (See Red Spot Paint & Varnish Co.)
Fabriche Italiane Conserve Alimentari dell' Adriatico G. Sanguinetti. (See Sanguinetti, Giorgio.)
Fairchild Bros. & Foster, New York, N. Y. Concentrate for treatment of anemia. 270,179; Sept. 4. Class 6.

Farley & Loetscher Mfg. Co., Dubuque, Iowa. Cabinets, drawers, tables, etc. 254,963; Sept. 4. Class 32.
Field and Stream Publishing Company, New York, N. Y. Monthly magazine. 268,979; Sept. 4. Class 38.
Finch, Van Slyck & McConville, St. Paul, Minn. Hosiery. 269,284; Sept. 4. Class 39.
Florida Fruit Canners, Inc., Frostproof, Fla. Canned grapefruit. 266,653; Sept. 4. Class 46.
Ford Motor Company, Fordson, Mich. Fertilizer. 268,594; Sept. 4. Class 10.
Ford Motor Company, Fordson, Mich. Locks, ignition switch locks, and keys. 268,596; Sept. 4. Class 25.
Forster Automatic Poultry Separator Company, Emeryville, Calif. Poultry nest. 264,574; Sept. 4. Class 50.
Gebauer & Kimpel. (See Blue Ribbon Products Company, assignor.)
General Color Products Co., Chicago, Ill. Ceramic enamels, colors, etc. 263,871; Sept. 4. Class 16.
"Gets-It" Inc., Chicago, Ill. Preparation for corns, calli, warts, etc. 267,573; Sept. 4. Class 6.
Gilmore Oil Company, Los Angeles, Calif. Asphalt, asphaltic binder, cement, etc. 269,112; Sept. 4. Class 12.
Glaze, Charles, Exeter, Calif. Fresh grapes. 269,953; Sept. 4. Class 46.
Glenwood Cotton Mills, Easley, S. C. Cotton sheetings. 266,084; Sept. 4. Class 42.
Globe Clothiers, The, Tulsa, Okla. Neckties. 251,498; Sept. 4. Class 39.
Golden Nugget Sweets, San Francisco, Calif. Fudge and nougat. 239,928; Sept. 4. Class 46.
Grasselli Chemical Company, The, Cleveland, Ohio. Tanning compositions. 270,125; Sept. 4. Class 6.
Gray and Murdock Mfg. Co., Salt Lake City, Utah. Electric stokers. 256,929; Sept. 4. Class 21.
Greenstreet, Oliver P., doing business as American Device Mfg. Company, Owensville, Mo. Laundry washing machines. 269,459; Sept. 4. Class 24.
Grossman, S., & Co., New York, N. Y. Boys' overcoats. 269,115; Sept. 4. Class 39.
Haas-Lieber Grocery Company, St. Louis, Mo. Malt syrup. 267,765; Sept. 4. Class 46.
Hahlo & Solomon, Inc., New York, N. Y. Piece goods for lining. 269,117; Sept. 4. Class 42.
Hair & Scalp Institute, Inc., Chicago, Ill. Preparation for the skin and the hair. 266,371; Sept. 4. Class 6.
Have a Heart Candy Co. (See Rose, William D.)
Heilbronn, J. P., Co., Manila, P. I. Writing paper, stationery pads, etc. 230,670; Sept. 4. Class 37.
Heilig & Flores, Inc., New York, N. Y. Gloves. 268,980; Sept. 4. Class 39.
Hekelnkaemper Bros., Atchison, Kans. Beverages. 269,782; Sept. 4. Class 45.
Hercules Oil Co., Cleveland, Ohio. Motor fuel oils. 259,444; Sept. 4. Class 15.
Hirschberg, Henry L., New York, N. Y. Women's and children's undergarments. 268,038; Sept. 4. Class 39.
Horton & Hubbard Mfg. Co., The, East Somerville, Mass. Suitcases. 268,610; Sept. 4. Class 3.
Horwood, E. H. & Co., Hoboken, N. J., and New York, N. Y. Combinations, garments consisting of an underwaist and drawers. 252,775; Sept. 4. Class 39.
I. G. Farbenindustrie Aktiengesellschaft Frankfort-on-the-Main and Berlin, Germany. Artificial-silk thread and artificial spinning fibers. 260,992; Sept. 4. Class 43.
International Nickel Company, The, New York, N. Y. Pieces of nickel. 261,194; Sept. 4. Class 14.
Interstate Rubber Company, New York, N. Y. Spray devices. 267,048; Sept. 4. Class 13.
Invertose Laboratories Co., The, Minneapolis, Minn. Sclerosing solution. 268,984; Sept. 4. Class 6.
Irving-Cloud Publishing Co., The, Chicago, Ill. Annual publication. 267,657; Sept. 4. Class 38.
Irvine Valencia Growers, Irvine, Calif. Fresh citrus fruits. 270,128; Sept. 4. Class 46.
Jacobs, Paul B., doing business as Jaynard Cle., New York, N. Y. Astringents, cerates, bleach creams, etc. 269,293; Sept. 4. Class 6.
Jacoby, J., Company, Los Angeles, Calif. Belts, pajamas, shirts, etc. 266,592; Sept. 4. Class 39.
Jaynard Cle. (See Jacobs, Paul B.)
Joe-Ann Togs, Incorporated, Cleveland, Ohio. Dresses. 261,635; Sept. 4. Class 39.
Kalamazoo Sled Company, The, Kalamazoo, Mich. Lawn furniture. 260,733; Sept. 4. Class 32.
Kali Manufacturing Co., Philadelphia, Pa. Pine oil. 270,083; Sept. 4. Class 6.
Karnak Chemical Company, West Chester, Pa. Metal reflectors. 266,253; Sept. 4. Class 50.
Kimura, Hidezo, Sakagoye Sakagoye-Mura Akogun Hyogoken, Japan. Magnesium carbonates. 257,878; Sept. 4. Class 6.
Klink Citrus Association, Klink, Calif. Fresh oranges, lemons, and grapefruit. 269,061; Sept. 4. Class 46.
Knott, William R., Rochester, N. Y. Silver paint preparation. 269,065; Sept. 4. Class 16.
Knox Company, Kansas City, Mo. Medicine for treatment of nervousness. 270,251; Sept. 4. Class 6.
Kolliner-Newman Mfg. Co., Stillwater, Minn. Coats, jumpers, jackets, etc. 268,871; Sept. 4. Class 39.

Konishi, Koji, Toyko, Japan. Glass for timepieces. 265,549; Sept. 4. Class 33.
Kramer, Adolf, & Norbert, Chemnitz, Germany. Hosiery. 262,914; Sept. 4. Class 39.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Coffee. 255,111; Sept. 4. Class 46.
Landauer & Co., London, England. Canned and dried fruits and canned vegetables. 266,999; Sept. 4. Class 46.
Landauer & Co., London, England. Canned and dried fruits. 267,000; Sept. 4. Class 46.
Landers, Frary & Clark, New Britain, Conn. Electrically-driven vacuum cleaners. 262,967; Sept. 4. Class 21.
Larned, Carter & Company, Detroit, Mich. Working clothing. 266,382; Sept. 4. Class 39.
Lilly, Eli, and Company, Indianapolis, Ind. Chemical and pharmaceutical products. 264,371; Sept. 4. Class 6.
Lohman, Southgate L., doing business as The Cyano-Art Co., Norfolk, Va. Blue-printing apparatus. 268,045; Sept. 4. Class 23.
Looseleaf Education, Inc., Columbus, Ohio. Series of textbooks. 267,499; Sept. 4. Class 38.
Los Angeles Brewing Co., Los Angeles, Calif. Malt syrup and malt extract. 269,413; Sept. 4. Class 46.
Louis, Alfred, Piccadilly, Manchester, England. Cotton velveteens. 268,072; Sept. 4. Class 42.
Lubach, A., & Sons, Inc., New York, N. Y. Underwear, undershirts, drawers, and hosiery. 256,949; Sept. 4. Class 39.
Lubrite Refining Company, St. Louis, Mo. Gasoline. 269,124; Sept. 4. Class 15.
Macfadden Publications Incorporated, New York, N. Y. Monthly magazine. 269,901; Sept. 4. Class 38.
MacIntyre & Simpson, Chicago, Ill. Magazines. 269,673; Sept. 4. Class 38.
Macy, R. H., & Co Inc., New York, N. Y. Shoes. 267,265; Sept. 4. Class 39.
Macy, R. H., & Co., Inc., New York, N. Y. Insecticide. 268,506; Sept. 4. Class 6.
Makransky, S., & Sons, Philadelphia, Pa. Suits, overcoats, and topcoats. 268,455; Sept. 4. Class 39.
Malt Products Co. (See Milgram, Nat.)
Manitowoc Products Company, Manitowoc, Wis. Malt syrup. 269,360; Sept. 4. Class 46.
Marshall Field & Company, Chicago, Ill. Axminster rugs. 245,970; Sept. 4. Class 42.
Marshall Manufacturing Company, The, Marshall, Tex. Shipping baskets. 267,660; Sept. 4. Class 2.
Martin, Francisco, New York, N. Y. Canned pimientos. 248,615; Sept. 4. Class 46.
McClintock-Trunkey Co., The, Spokane, Wash. Tuna fish, butter, coffee, etc. 257,632; Sept. 4. Class 46.
McCreery Manufacturing Co., Portland, Oreg. Clothing. 265,050; Sept. 4. Class 39.
McKinney Manufacturing Company, Pittsburgh, Pa. Hinges, straps, brackets, etc. 267,310; Sept. 4. Class 13.
Mesta Machine Company, West Homestead and Pittsburgh, Pa. Rolling-mill rolls. 264,247–9; Sept. 4. Class 23.
Metz, H. A., Laboratories, Inc., New York, N. Y. Anesthetic. 269,970; Sept. 4. Class 6.
Meyer Furnace Company, The, Peoria, Ill. Furnaces. 268,993; Sept. 4. Class 34.
Michelman Grass Hosiery Company, Inc., New York, N. Y. Hosiery. 268,166; Sept. 4. Class 39.
Michigan Alkali Company, Wyandotte, Mich. Calcium chloride. 268,554; Sept. 4. Class 6.
Mico-Products, Inc., Ampere-Newark, N. J. Electric switches, signals, etc. 261,374; Sept. 4. Class 21.
Midland Coal Sales Company, Cincinnati, Ohio. Coal. 265,052; Sept. 4. Class 1.
Midland Coal Sales Company, Cincinnati, Ohio. Coal. 265,055; Sept. 4. Class 1.
Mid-Pacific Candy Company, Limited, Honolulu, Hawaii. Glacé pineapple and confections. 269,245; Sept. 4. Class 46.
Midway Chemical Company, Chicago, Ill. Machine oil. 254,413; Sept. 4. Class 15.
Midwest Steel & Supply Company, Inc., New York, N. Y., and Bradford, Pa. Humidifying machines and devices, etc. 268,107; Sept. 4. Class 34.
Milford Shoe Company, Milford, Mass. Shoes. 264,596; Sept. 4. Class 39.
Milgram, Nat, doing business as Malt Products Co., Kansas City, Mo. Malt syrup. 269,417; Sept. 4. Class 46.
Miller, L. A., Label Co., San Francisco, Calif. Labels, tags, etc. 266,143; Sept. 4. Class 38.
Mineral-Lac Paint Co., Inc., Philadelphia, Pa. Plastic roof coating. 268,299; Sept. 4. Class 12.
Missouri Agricultural Publishing Company, St. Louis, Mo. Tattooing device. 269,305; Sept. 4. Class 23.
Moler Products Limited, London, England. Raw or partly-prepared vegetable, animal, and mineral substances. 264,038; Sept. 4. Class 1.
Moler Products Limited, London, England. Manufactures from mineral substances. 264,039; Sept. 4. Class 12.
Moore, Walton N., Dry Goods Co., Inc., San Francisco, Calif. Dresses and aprons. 266,145; Sept. 4. Class 39.
Mount Airy Overall Co., Mount Airy, N. C. Work shirts, pants, overalls. 267,851–2; Sept. 4. Class 39.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Mount Rouge Company. (See De La Montanya, Pierre.)
Mueller Electric Company, Cleveland, Ohio. Connection clips. 265,340; Sept. 4. Class 21.
Mulford, H. K., Company, Philadelphia, Pa. Antacid and corrective for digestive disturbances. 269,542; Sept. 4. Class 6.
Mülhens, Paul P., doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps. 242,100; Sept. 4. Class 4.
Mutual Orange Distributors, Redlands, Calif. Fresh citrus and deciduous fruits. 270,139; Sept. 4. Class 46.
National Bank Supply Co., The, Milwaukee, Wis. Loose-leaf binders, etc. 269,596; Sept. 4. Class 37.
National Department Stores, Inc., New York, N. Y. Ladies' hosiery. 269,137; Sept. 4. Class 39.
National Fruit Canning Co., Seattle, Wash. Canned fruit. 269,972; Sept. 4. Class 46.
National Trade Journals, Inc., New York, N. Y. Section of a monthly publication. 268,507; Sept. 4. Class 38.
Nanut, Inc., Long Island City, N. Y. Soap. 268,624; Sept. 4. Class 4.
Neilly, William C., New York, N. Y. Preparation for the skin. 270,090; Sept. 4. Class 6.
Nena Lax Co. (See Enge, Nena.)
Nock Chemical Laboratory, Pittsburgh, Pa. Metal-cleaning compound. 268,508; Sept. 4. Class 4.
Norub Company, Ossining, N. Y. Shaving powder. 269,363; Sept. 4. Class 4.
Nu-Gax-Ex Company, Hackensack, N. J. Antacid and digestant. 268,458; Sept. 4. Class 6.
Old Hampshire, Inc., New York, N. Y. Ginger ale. 269,908; Sept. 4. Class 45.
Oshkosh Overall Co., Oshkosh, Wis. Overalls, work coats, jackets, and pants. 268,881; Sept. 4. Class 39.
Owens Staple-Tied Brush Company, The, Toledo, Ohio. Toothbrushes. 246,497; Sept. 4. Class 29.
Oxford University Press, American Branch, New York, N. Y. Musical periodical. 270,092; Sept. 4. Class 38.
Page Milk Co., Merrill, Wis. Canned evaporated milk. 269,313; Sept. 4. Class 46.
Paris, Isabey, Inc., Wilmington, Del., and New York, N. Y. Cold cream, vanishing cream, rouge, etc. 267,127; Sept. 4. Class 6.
Paris, Isabey, Inc., Wilmington, Del., and New York, N. Y. Bath powder, compacts, lip sticks, etc. 267,128; Sept. 4. Class 6.
Patapsco Oil & Grease Co., The, Baltimore, Md. Lubricating oils and greases. 264,188; Sept. 4. Class 15.
Pendleton Woolen Mills, Portland, Oreg. Clothing. 267,793; Sept. 4. Class 39.
Penick & Ford, Ltd., New York, N. Y. Molasses. 269,364; Sept. 4. Class 46.
Per-Con Manufacturing Company, Richmond, Ind. Radio accessories. 266,879; Sept. 4. Class 21.
Peterson, G. A., doing business as Peterson "Freezem" Sales Co., Oklahoma City, Okla. Air-blast ventilating units consisting of fan blower and ducts. 265,011; Sept. 4. Class 34.
Pinkham, Franklin, New York, N. Y. Weekly magazine. 268,245; Sept. 4. Class 38.
Plaza Music Company, New York, N. Y. Phonographs, records, etc. 263,889; Sept. 4. Class 36.
Polefsky, Jacob S., New York, N. Y. Extract. 267,666; Sept. 4. Class 45.
Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits and vegetables and apricot butter. 269,255–6; Sept. 4. Class 46.
Reniart Silk Hosiery Mills. (See Sachsenmaier, Frances.)
Red Fox Orchards, Orange, Calif. Oranges, lemons, and grapefruit. 253,606; Sept. 4. Class 46.
Red Spot Paint & Varnish Co., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Paints, fillers, shellacs, etc. 267,389; Sept. 4. Class 16.
Reichel Bros., New York, N. Y. Hats and caps. 226,824; Sept. 4. Class 39.
Rentz, Fred, Paper Company, Chicago, Ill. Wrapping paper. 269,651; Sept. 4. Class 37.
Rice's, Bernard, Sons, Inc., New York, N. Y. Silver hollowware. 268,883; Sept. 4. Class 28.
Rich, Frederick D., New York, N. Y. Fashion periodical. 268,884; Sept. 4. Class 38.
Richter, F. Ad. & Co. of New York, Brooklyn, N. Y. Soap. 268,310; Sept. 4. Class 4.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Aluminum cleanser, steel wool, etc. 266,620; Sept. 4. Class 4.
Rose Bros., New York, N. Y. Topcoats, overcoats, suits, etc. 265,452; Sept. 4. Class 39.
Rose, William D., doing business as Have a Heart Candy Co., Portland, Oreg. Candy. 269,427; Sept. 4. Class 46.
Rosenbaum Company, The, Pittsburgh, Pa. Coats and dresses. 269,038; Sept. 4. Class 39.
Rosenheim Co., Inc., Providence, R. I. Bracelets. 269,318; Sept. 4. Class 28.
Rosenau Bros., Inc., Philadelphia, Pa. Elastic bands. 259,184; Sept. 4. Class 40.
Rossow, August W., doing business as Rossow Research Laboratories, Portland, Oreg. Depilatory. 268,313; Sept. 4. Class 6.
Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Mayonnaise, gelatine, yeast, etc. 218,375; Sept. 4. Class 46.
Rubyette Co., The, San Francisco, Calif. Ice cream, ices, sherbets, etc. 269,154; Sept. 4. Class 46.
Rumidor Corporation, The, Union City, N. J. Moistening and flavoring products for cigars, cigarettes, etc. 268,634; Sept. 4. Class 6.
Russell, Frederick C., West Hartford, Conn. Heading for newspaper articles. 269,799; Sept. 4. Class 38.
S. M. & H. Company, New York, N. Y. Rings, pins, etc. 265,296; Sept. 4. Class 26.
S & W Thrift Corporation, San Francisco, Calif. Trading certificates. 245,228; Sept. 4. Class 38.
Sachsenmaier, Frances, doing business as Realart Silk Hosiery Mills, Philadelphia, Pa. Hosiery. 269,319; Sept. 4. Class 39.
Sackrin, Eisenberg & Perlstein, New York, N. Y. Ladies' dress coats. 268,818; Sept. 4. Class 39.
Safety Glass and Xetal Products, Limited, Stapleford, England. Adhesives. 239,826; Sept. 4. Class 5.
Salol Chemical Co., Chicago, Ill. Disinfectant and cleanser. 265,575; Sept. 4. Class 6.
Sanguinetti, Giorgio, doing business as Fabbriche Italiane Conserve Alimentari dell' Adrintico G. Sanguinetti, Trieste, Italy. Canned fish and antipasto. 244,959; Sept. 4. Class 46.
Savarins, Inc., The, New York, N. Y. Fruit preserves, pies, coffee, cake, etc. 266,049; Sept. 4. Class 46.
Savarins, Inc., The, New York, N. Y. Cigars and cigarettes. 266,050; Sept. 4. Class 17.
Schnelling, Samuel, Chicago, Ill. Rings, bracelets, etc. 266,485; Sept. 4. Class 28.
Schumacher Wall Board Corporation, Los Angeles, Calif. Construction material. 265,069; Sept. 4. Class 12.
Scull, William S., Company, Camden, N. J. Chocolate malt syrup. 269,322; Sept. 4. Class 46.
Seidman, Charles, doing business as Charles Seidman & Co., Philadelphia, Pa. Sweaters. 267,147; Sept. 4. Class 39.
Selig, Alvin C., San Francisco, Calif. Boys' and men's outer clothing. 267,806; Sept. 4. Class 39.
Sergeant-Paup Company, Seattle, Wash. Canned fish. 269,991; Sept. 4. Class 46.
Settel, Hyman, doing business as The Credit Stores Magazine Publishing Co., New York, N. Y. Periodical. 269,094; Sept. 4. Class 38.
Sgobel & Day, Inc., New York, N. Y. Fresh pears. 269,480; Sept. 4. Class 46.
Shakeshaft, Marion D., doing business as St. Nick's Toy Company, Topeka, Kans. Seesaw amusement device. 261,077; Sept. 4. Class 22.
Shakespeare Company, Kalamazoo, Mich. Fishing lines. 267,728; Sept. 4. Class 22.
Sherman Bros., New York, N. Y. Raincoats. 266,151; Sept. 4. Class 39.
Shonf-Sink Hosiery Mill Company, Lexington, N. C. Hosiery. 269,326; Sept. 4. Class 39.
Simon Oil Company, Inc., Niagara Falls, N. Y. Gasoline, kerosene, etc. 260,359; Sept. 4. Class 15.
Simmons-Boardman Publishing Co., New York, N. Y. Periodical. 269,487; Sept. 4. Class 38.
Skinner-Hill Co., Inc., New York, N. Y. Glassware. 257,124; Sept. 4. Class 33.
Spaide Shirt Company, The, Butler, Pa. Shirts. 268,400; Sept. 4. Class 39.
St. Nick's Toy Company. (See Shakeshaft, Marion D.)
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Nose and throat spray. 266,628; Sept. 4. Class 6.
Sterling Company, The, Chicago, Ill. Ladies' aprons and house dresses. 269,160; Sept. 4. Class 39.
Stone, Lester H., Chicago, Ill. Shoes. 267,468; Sept. 4. Class 39.
Structural Gypsum Corporation, Linden, N. J. Materials for use in partition blocks or tile. 267,325; Sept. 4. Class 12.
Sturdy Manufacturing Co., Elkhart, Ind. Warm-air registers, etc. 266,282; Sept. 4. Class 34.
Surface Combustion Company, Inc., The, Toledo, Ohio. Gas and oil industrial furnaces and parts therefor. 267,219; Sept. 4. Class 34.
Sweet, Wm. J., Foundry Co., Irvington (Newark), N. J. Ferrous and nonferrous metal alloys, etc. 268,569; Sept. 4. Class 14.
Tartikoff, J., & Sons, New York, N. Y. Boys' suits. 268,711; Sept. 4. Class 39.
Teitler's Beverages. (See Coney Island Soda Water Co., Inc.)
Temple, Inc., Chicago, Ill. Loud speakers and parts thereof. 268,755; Sept. 4. Class 21.
Textileather Corporation, Newark, N. J. Coated fabric. 268,893; Sept. 4. Class 50.
Theta Tau Fraternity, Urbana, Ill. Fraternity badges, lapel buttons, etc. 269,042; Sept. 4. Class 28.
Thoro Products Company, The, Denver, Colo. Dry cleaners. 258,148; Sept. 4. Class 4.
Tiffany & Company, New York, N. Y. Canes, parasols, and umbrellas. 267,151; Sept. 4. Class 41.
Tiffany & Company, New York, N. Y. Furniture. 267,154; Sept. 4. Class 32.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tobrin Tool Company, The, Plantsville, Southington, Conn. Screw drivers. 269,006; Sept. 4. Class 23.
Torrey, Joseph R., and Belle M. Torrey, doing business as J. R. Torrey & Company, administrators under the will of Lewis H. Torrey. Worcester, Mass. Blade holders and mechanical stropping devices, etc. 259,226; Sept. 4. Class 23.
Traun, Heinr., & Söhne, vormals Harburger Gummi-Kamm-Compagnie, Hamburg, Germany. Combs. 262,984; Sept. 4. Class 40.
Trinidad Lake Petroleum Company, Limited, The, assignor to The Trinidad Lake Asphalt Operating Company, Limited, Brighton, Trinidad, British West Indies. Road oil. 254,874; Sept. 4. Class 15.
Trippe, Barker & Co., New York, N. Y. Dresses. 268,256; Sept. 4. Class 39.
Twin Coupler Company, Inc., Poughkeepsie, N. Y. Radio reception elements. 256,590; Sept. 4. Class 21.
Twin Coupler Company, Inc., Poughkeepsie, N. Y. Radio receiving sets and parts. 256,591; Sept. 4. Class 21.
U. S. Volunteer Air Service. (See Elliott, Glenn.)
Universal Electric Lamp Co., Newark, N. J. Radio electron tubes. 268,654; Sept. 4. Class 21.
Universal Electric Lamp Co., Newark, N. J. Radio electron tubes. 268,655; Sept. 4. Class 21.
Van Riper, Charles K., Monterey, Calif. Periodicals. 270,063; Sept. 4. Class 38.
Wayne Company, Fort Wayne, Ind. Oil-burning apparatus. 267,878; Sept. 4. Class 34.
Wayne Company, Fort Wayne, Ind., assignor to The Wayne Home Equipment Company, Baltimore, Md. Refrigeration apparatus. 267,879; Sept. 4; Class 31.
Weeks, Sawyer & Co., New York, N. Y. Cotton piece goods. 270,103; Sept. 4. Class 42.
Western Grocer Company, Marshalltown, Iowa. Canned vegetables. 260,863; Sept. 4. Class 46.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Contact rectifiers. 245,942; Sept. 4. Class 21.
White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper, paper towels and napkins. 269,752–3; Sept. 4. Class 37.
Whiting-Plover Paper Company, Plover, Wis. Writing and printing papers. 269,379; Sept. 4. Class 37.
Wilson-Imperial Company, Newark, N. J. Detergent compound. 263,297; Sept. 4. Class 4.
Winthrop Chemical Company. (See Chemische Fabrik von Heyden A. G., assignor.)
Wood, J. R., & Sons, New York, N. Y. Finger rings. 258,707; Sept. 4. Class 26.
Yakima Fruit Exchange, Yakima, Wash. Fresh apples. 270,002; Sept. 4. Class 46.
Zanesville Paper Co., The, Zanesville, Ohio. Toilet paper. 269,814; Sept. 4. Class 37.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Cotton waste. Riverside Mills. 72,386–7; renewed Jan. 19, 1929.
Fur pelts, Beaver. H. Rosenberg. 246,450; Sept. 4.

CLASS 2.

Baskets, garbage cans, match safes, etc., Metallic waste paper. National Enameling and Stamping Company. 246,166; Sept. 4; Serial No. 259,863; published June 26, 1928.
Boxes, Paper. Simplex Paper Box Company. 246,123; Sept. 4; Serial No. 265,239; published June 19, 1928.
Containers and cartons, Empty paper. Menasha Printing and Carton Company. 246,248; Sept. 4; Serial No. 257,300; published June 26, 1928.

CLASS 4.

Belt dressing. Chas. A. Schieren Company. 72,420; renewed Jan. 26, 1929.
Soluble chemical compounds. Cowles Detergent Company. 246,293; Sept. 4; Serial No. 261,046; published May 29, 1928.

CLASS 6.

Acid, Lactic. Vet Products Laboratory Inc. 246,299; Sept. 4; Serial No. 263,797; published June 5, 1928.
Antiseptic, deodorizing, or prophylactic solution. United Drug Company. 246,129; Sept. 4; Serial No. 265,076; published June 12, 1928.
Antiseptic solution. E. H. Ringwald. 246,362; Sept. 4; Serial No. 263,830; published June 5, 1928.
Antiseptic wash and douche. C. B. Sacher. 246,140; Sept. 4; Serial No. 264,779; published June 12, 1928.
Beer, brown stout, porter, and malt extract. Stroh Brewery Company. 71,606; renewed Dec. 1, 1928.
Biological products. H. K. Mulford Company. 246,226; Sept. 4; Serial No. 263,555; published June 12, 1928.
Chemical for eradicating weeds. J. W. Shoemaker. 246,446; Sept. 4.
Chemical preparation. Naugatuck Chemical Company. 246,413; Sept. 4; Serial No. 263,173; published June 12, 1928.
Chemicals. Kretol Company. 71,360; renewed Nov. 17, 1928.
Cosmetics. R. Appelbaum. 246,453; Sept. 4.
Cream, Reducing. O-Slend-O, Incorporated, Hollywood. 246,420; Sept. 4; Serial No. 262,377; published June 5, 1928.
Dental powder for false teeth. S. N. Amster. 246,463; Sept. 4.
Detergent for throat and mouth, Germicidal. L. A. Jessen. 246,315; Sept. 4; Serial No. 238,724; published June 5, 1928.
Dinitrophenyl dimethyl dithiocarbamate. Naugatuck Chemical Company. 246,347; Sept. 4; Serial No. 264,382; published June 12, 1928.
Eye wash. McKesson & Robbins, Incorporated. 246,231; Sept. 4; Serial No. 263,401; published June 12, 1928.
Fly spray and bleacher. Dafoe Chemical Laboratories, Inc. 246,448; Sept. 4.
Laxative. J. C. Siedenfuss. 246,201; Sept. 4; Serial No. 262,639; published June 12, 1928.
Laxative tonic and alterative used in the treatment of rheumatism, etc. T. Poulos. 246,301; Sept. 4; Serial No. 263,787; published June 5, 1928.
Liniment for external application for treatment of inflammation and congestions of chest and head, etc. Liquo-Rub Laboratories. 246,431; Sept. 4; Serial No. 262,812; published June 5, 1928.
Liver tablets. A. Wise Chemical Company. 246,302; Sept. 4; Serial No. 263,738; published June 5, 1928.
Lotion. F. T. Hopkins. 246,415; Sept. 4; Serial No. 263,084; published June 12, 1928.
Lotion and an antiseptic toilet cream, Skin. M. Noveck. 246,132; Sept. 4; Serial No. 265,000; published June 12, 1928.
Lotion and talcum powder, Skin. Jaciel Perfumers Inc. 246,203; Sept. 4; Serial No. 262,608; published June 12, 1928.
Lotions, Face. Helena Rubinstein, Inc. 246,259; Sept. 4; Serial No. 254,396; published June 5, 1928.
Magnesium hydroxide. McKesson & Robbins, Incorporated. 246,190; Sept. 4; Serial No. 262,751; published June 12, 1928.
Magnesium hydroxide. McKesson & Robbins, Incorporated. 246,229; Sept. 4; Serial No. 263,493; published June 12, 1928.
Medical preparation. J. T. Adair. 246,297; Sept. 4; Serial No. 263,807; published June 12, 1928.
Medicinal preparation. Vitamineral Products Co. 246,179; Sept. 4; Serial No. 250,481; published June 12, 1928.
Medicinal preparation, Selective. P. A. Thomas. 246,355; Sept. 4; Serial No. 264,129; published June 12, 1928.
Medicine for animals, Foul. A. D. Driscoll. 246,277; Sept. 4; Serial No. 261,952; published June 12, 1928.
Metallic oxides and salts. Vanadium Corporation of America. 246,412; Sept. 4; Serial No. 263,239; published June 5, 1928.
Mouth wash, mouth-wash powder, etc., Liquid. Aftex Laboratories, Inc. 246,220; Sept. 4; Serial No. 263,677; published June 12, 1928.
Oil, General Russian mineral. C. S. Littell & Co. 246,349; Sept. 4; Serial No. 264,314; published June 12, 1928.
Ointment. E. L. Allen. 246,255; Sept. 4; Serial No. 257,773; published June 12, 1928.
Ointment. McKesson & Robbins, Incorporated. 246,193–5; Sept. 4; Serial Nos. 262,745–7; published June 12, 1928.
Ointment. McKesson & Robbins, Incorporated. 246,196; Sept. 4; Serial No. 262,735; pblished June 12, 1928.
Ointment. McKesson & Robbins, Incorporated. 246,198; Sept. 4; Serial No. 262,729; published June 12, 1928.
Ointment, Antiseptic. McKesson & Robbins, Incorporated. 246,230; Sept. 4; Serial No. 263,492; published June 12, 1928.
Ointment for the relief of colds in the head, nasal catarrh, etc. F. D. Barnes. 246,214; Sept. 4; Serial No. 258,447; published June 5, 1928.
Perfume, face powder, compact rouge, etc. Lengyel Frères, Inc. 246,223; Sept. 4; Serial No. 263,609; published June 12, 1928.
Perfumes and toilet waters. Rallet Corporation of America. 246,345; Sept. 4; Serial No. 264,479; published June 12, 1928.
Perfumes, toilet waters, etc. A. E. Glickman. 246,209; Sept. 4; Serial No. 259,678; published Apr. 24, 1928.
Photographic developers and accelerators. H. S. Wellcome. 71,460; renewed Nov. 24, 1928.
Preparation for stopping hemorrhage and for promoting the healing of wounds. Heyl & Co. Chemisch-Pharmaceutische Fabrik Akt.-Ges. 246,250; Sept. 4; Serial No. 256,624; published June 12, 1928.

Preparation for the relief of indigestion. McKesson & Robbins, Incorporated. 246,398; Sept. 4; Serial No. 263,487; published June 12, 1928.
Preparation for use as an aid in dyeing. Celanese Corporation of America. 246,351; Sept. 4; Serial No. 264,222; published June 12, 1928.
Preparation, Liquid. P. M. Bradley. 246,436; Sept. 4; Serial No. 263,026; published June 12, 1928.
Preparations, Liquid. Mrs. L. Buth & Son. 246,418; Sept. 4; Serial No. 262,442; published June 12, 1928.
Remedies for certain diseases. National Herb Company. 69,592; June 23.
Remedy for certain diseases, R. Ray. 70,852; renewed Oct. 13, 1928.
Remedy for colds, grippe, etc. Brewer & Company. 246,444; Sept. 4, 1928.
Roach powder. G. Peters. 246,145; Sept. 4; Serial No. 247,906; published July 5, 1927.
Salves. R. M. Abber. 246,224; Sept. 4; Serial No. 263,576; published June 12, 1928.
Spray and gargle, Nose and throat. McKesson & Robbins, Incorporated. 246,197; Sept. 4; Serial No. 262,731; published June 12, 1928.
Spray and gargle, Nose and throat. McKesson & Robbins, Incorporated. 246,199; Sept. 4; Serial No. 262,728; published June 12, 1928.
Tablets which are dissolved in hot water and applied as a lotion to the hair in permanent waving. W. H. C. Bingham. 246,249; Sept. 4; Serial No. 256,856; published June 5, 1928.
Toilet preparation. H. S. Wellcome. 71,267; renewed Nov. 10, 1928.
Tonic for treating the gums of the mouth. S. O. Brooks. 246,290; Sept. 4; Serial No. 261,549; published June 5, 1928.
Tonic, General. McKesson & Robbins, Incorporated. 246,191–2; Sept. 4; Serial No. 262,748–9; published June 12, 1928.
Tonic, General. McKesson & Robbins, Incorporated. 246,346; Sept. 4; Serial No. 264,454; published June 12, 1928.
Tonic having wine base. Italian Vineyard Co. 246,448; Sept. 4.
Tonic, wash, diarrhea and asthma treatment for birds, and a balm for the treatment of birds' feathers. C. J. Koch. 246,133; Sept. 4; Serial No. 264,994; published June 12, 1928.
Tonics and laxatives, Alternative general. McKesson & Robbins, Incorporated. 246,396–7; Sept. 4; Serial No. 263,488–9; published June 12, 1928.
Veterinary remedies. Vet Products Laboratory Inc. 246,298; Sept. 4; Serial No. 263,798; published June 5, 1928.
Vitamin concentrates. Lever Brothers, Limited. 246,416; Sept. 4; Serial No. 262,472; published June 12, 1928.
Washing fluid for use in removing stains from clothes. V & V Half Hour Washing Fluid Co. 246,225; Sept. 4; Serial No. 263,569; published June 5, 1928.

CLASS 7.

Twines and ropes. Stone and Forsyth Company. 246,262; Sept. 4; Serial No. 266,689; published June 26, 1928.

CLASS 8.

Pouches, Tobacco. P. Florin. 246,131; Sept. 4; Serial No. 265,038; published June 26, 1928.
Smoker's stand used on a table containing an attached gasoline cigarette lighter. A. Leaf. 246,407; Sept. 4; Serial No. 263,322; published June 19, 1928.

CLASS 9.

Dynamite. Illinois Powder Mfg. Co. 246,363; Sept. 4; Serial No. 266,733; published June 26, 1928.
Matches. Janszen Company. 246,265; Sept. 4; Serial No. 266,594; published June 26, 1928.

CLASS 10.

Fertilizer. V. & M. Products Co. 246,122; Sept. 4; Serial No. 265,243; published June 19, 1928.

CLASS 11.

Carbon papers bound in time-saving binders. F. S. Webster Company. 246,357; Sept. 4; Serial No. 264,061; published June 26, 1928.
Ink, Writing. Indello Ink Company. 246,143; Sept. 4; Serial No. 264,585; published June 19, 1928.

CLASS 12.

Zinc plates, Enamelled. J. W. Woolley. 246,445; Sept. 4.

CLASS 13.

Aluminum ware. Aluminum Goods Manufacturing Co. 246,414; Sept. 4; Serial No. 263,121; published June 26, 1928.
Bowls, flower bowls, vases, etc., Fruit. International Silver Company. 246,134; Sept. 4; Serial No. 264,989; published June 19, 1928.
Doorchecks. Useful Products Company. 246,253; Sept. 4; Serial No. 255,617; published June 26, 1928.
Hinges. Chicago Spring Hinge Company. 246,368; Sept. 4; Serial No. 265,888; published June 19, 1928.
Spring hinges. Stover Manufacturing Company. 32,460; renewed Jan. 31, 1929.
Sprinklers, automatic control valves, and drain valves. Munz Sprainwn Corporation. 246,352; Sept. 4; Serial No. 264,179; published June 19, 1928.
Valve bulbs, Tank-. J. A. Sexauer Manufacturing Co. 246,286; Sept. 4; Serial No. 261,724; published June 26, 1928.
Wire screening. American Wire Fabrics Corporation. 246,384; Sept. 4; Serial No. 262,197; published June 19, 1928.

CLASS 14.

Tools. T. R. Ellin. 70,239–40; renewed Aug. 11, 1928.

CLASS 15.

Lubricating grease. Cincinnati Oil Works Company. 70,217; renewed Aug. 11, 1928.
Lubricating oil. Cincinnati Oil Works Company. 70,237; renewed Aug. 11, 1928.
Oils and greases. Galena-Signal Oil Co. 70,878; renewed Oct. 13, 1928.
Oils and greases, Lubricating. Gash-Stull Company. 246,459; Sept. 4.
Oils, greases, and petroleum products. Daimler-Motoren-Gesellschaft. 71,287; renewed Nov. 17, 1928.

CLASS 16.

Paints and painters' material. Lucille Chemical Company. 246,305; Sept. 4; Serial No. 264,174; published June 19, 1928.

CLASS 17.

Cigarettes. Empire Tobacco Company. 246,375; Sept. 4; Serial No. 265,721; published June 26, 1928.
Stogies. M. Marsh & Son. 71,752; renewed Dec. 15, 1928.
Tobacco and cigarettes, Smoking and chewing. Brown & Williamson Tobacco Corporation. 246,148; Sept. 4; Serial No. 266,080; published June 26, 1928.

CLASS 19.

Automobile heaters. A. A. Wilson. 246,121; Sept. 4; Serial No. 265,247; published June 26, 1928.
Cycles. Rudge-Whitworth Limited. 32,455; renewed Jan. 31, 1929.
Heaters and ventilators, Combined. Lindy-Fan Company. 246,169; Sept. 4; Serial No. 252,609; published June 19, 1928.

CLASS 21.

Carbons, Electric and galvanic. C. Conradty. 70,255; renewed Aug. 18, 1928.
Electric controllers for motors, automatic starters and control devices, etc. C. J. Anderson & Co. 246,462; Sept. 4.
Lamps, Electric-arc. M. J. Wohl & Co. 246,469; Sept. 4.
Radio receiving sets. Grigsby-Grunow-Hinds Co. 246,213; Sept. 4; Serial No. 258,688; published Apr. 24, 1928.
Switches, Automatic electric. Penn Electric Switch Company. 246,458; Sept. 4.
Tubes, Rectifying. Grigsby-Grunow-Hinds Co. 246,228; Sept. 4; Serial No. 262,562; published May 22, 1928.

CLASS 22.

Fishhook files. Whitney Sporting Goods Company. 72,441; renewed Jan. 26, 1929.

CLASS 23.

Clippers, rod cutters, etc., Bolt. H. K. Porter, Inc. 246,233; Sept. 4; Serial No. 266,269; published June 19, 1928.
Cranes of all kinds, milling machinery, etc. Elsenwerk (vorm. Nagel & Kaemp) A. G. 246,287; Sept. 4; Serial No. 261,668; published June 26, 1928.
Cutter and matcher heads. Samuel J. Shimer & Sons, Inc. 72,408; renewed Jan. 26, 1929.
Devices for packing and turning or upending containers for fruits, etc. Caskey Turn Kwik Corporation. 246,142; Sept. 4; Serial No. 264,713; published June 26, 1928.
Dishwashing machines. White-Bear Corporation. 246,371; Sept. 4; Serial No. 265,868; published June 19, 1928.
Engines and pumps, Wind. U. S. Wind Engine & Pump Co. 246,324; Sept. 4; Serial No. 217,433; published June 26, 1928.
Feed mills. Stover Manufacturing Company. 32,458; renewed Jan. 31, 1929.
Forks, hay forks, clover forks, etc., Fish. Union Fork & Hoe Company. 246,236; Sept. 4; Serial No. 266,228; published June 26, 1928.
Grain-binding harvesters and front-cut grass mowers. International Harvester Company of America. 71,944; renewed Dec. 22, 1928.
Horsepowers. Stover Manufacturing Company. 32,459; renewed Jan. 31, 1929.
Machines, Mixing. C & B Smith. 246,278; Sept. 4; Serial No. 261,916; published June 19, 1928.
Mills, Roller. American Oven & Macbire Co. 246,270; Sept. 4; Serial No. 266,346; published June 26, 1928.
Pistons. Bohn Aluminum & Brass Corporation. 246,451; Sept. 4.
Plows and their parts. Syracuse Chilled Plow Co. 31,466; renewed Apr. 12, 1928.
Presses, Hydraulic. Hydraulic Press Manufacturing Company. 246,378–80; Sept. 4; Serial Nos. 265,648–50; published June 26, 1928.

Pulleys, Speed-change. Blizzard Sales Co. 246,288; Sept. 4; Serial No. 261,607; published June 19, 1928.
Razors and shears, E. Morris Mfg. Co. 246,423–4; Sept. 4; Serial Nos. 262,864–5; published June 26, 1928.
Razors and shears. E. Morris Mfg. Co. 246,434; Sept. 4; Serial No. 262,866; published June 26, 1928.
Shovels, spades, and scoops. Ames Shovel & Tool Company. 246,234; Sept. 4; Serial No. 266,233; published June 26, 1928.
Spreader, Mechanical. Good Roads Company. 246,115; Sept. 4; Serial No. 265,431; published June 19, 1928.
Tackle blocks and parts therefor. Western Block Co. 246,219; Sept. 4; Serial No. 266,288; published June 19, 1928.
Tool for collapsing split tire rims. F. N. Kruckow. 246,289; Sept. 4; Serial No. 261,576; published June 26, 1928.
Tools, W. J. Leach. 246,136; Sept. 4; Serial No. 264,894; published June 19, 1928.
Tools, Valve-reseating and valve planing. K. O. Lee and Son Company. 246,162; Sept. 4; Serial No. 260,059; published June 26, 1928.
Typewriting machines. Remington Typewriter Company. 246,332; Sept. 4; Serial No. 260,851; published June 26, 1928.
Water-softening apparatus and parts therefor. Ward-Love Pump Corporation. 246,182; Sept. 4; Serial No. 246,453; published June 26, 1928.
Weeders, Hand. Union Fork & Hoe Company. 246,237; Sept. 4; Serial No. 266,227; published June 19, 1928.
Well equipment. P. S. Judy. 246,467; Sept. 4.
Windmills. Stover Manufacturing Company. 32,457; renewed Jan. 31, 1929.

CLASS 24.

Ironing tables. Federal Washboard Company. 246,111; Sept. 4; Serial No. 265,529; published June 19, 1928.
Washing machines, Laundry. Woodrow Washing Machine Company. 246,425; Sept. 4; Serial No. 262,837; published June 19, 1928.

CLASS 26.

Calculating machines. United Accounting Machines, Inc. 246,267; Sept. 4; Serial No. 266,567; published June 26, 1928.
Camera-lens filters. Burleigh Brooks. 246,238; Sept. 4; Serial No. 266,187; published June 19, 1928.
Cameras, Photographic. Eastman Kodak Company. 246,269; Sept. 4; Serial No. 266,363; published June 26, 1928.
Pumps, Liquid-measuring. Dayton Pump & Manufacturing Company. 246,204; Sept. 4; Serial No. 262,599; published June 19, 1928.
Thermometers, Thermostatic. Cooper Oven Thermometer Company. 246,126; Sept. 4; Serial No. 265,141; published June 19, 1928.

CLASS 27.

Clocks and watches. Western Clock Mfg. Co. 72,178; renewed Jan. 5, 1929.
Watches and parts thereof. Ancienne Manufacture d'horlogerie, Patek, Philippe et Co., société anonyme. 72,349; renewed Jan. 19, 1929.

CLASS 32.

Art products, Wrought-iron. Boyle Manufacturing Company. 246,309; Sept. 4; Serial No. 243,476; published June 19, 1928.
Beds and folding cots, Folding and day. Coopersmith Bed Company. 246,353; Sept. 4; Serial No. 264,149; published June 26, 1928.
Chair seats and cushions, cushions for vehicles and baby carriages, etc. P. Centemeri & Co. 246,342; Sept. 4; Serial No. 260,097; published June 26, 1928.
Chair seats and cushions, cushions for vehicles and baby carriages, etc. P. Centemeri & Co. 246,160; Sept. 4; Serial No. 260,094; published June 26, 1928.
Chair seats and cushions, etc. P. Centemeri & Co. 246,161; Sept. 4; Serial No. 260,090; published June 26, 1928.
Cushions, Furniture. Nachman Spring-Filled Company. 246,141; Sept. 4; Serial No. 264,771; published June 26, 1928.
Furniture, Steel. Rockford Steel Furniture Company. 246,329–30; Sept. 4; Serial Nos. 260,912–13; published June 26, 1928.
Mattresses. United States Bedding Co. 246,271; Sept. 4; Serial No. 266,339; published June 26, 1928.
Mattresses, bed springs, and inner-spring mattresses. International Bedding Company. 246,156; Sept. 4; Serial No. 265,968; published June 19, 1928.
Mattresses, pillows, etc. American Mattress Works Inc. 246,358; Sept. 4; Serial No. 264,004; published June 26, 1928.
Show cases, store fixtures. Weber Showcase & Fixture Co. 246,241; Sept. 4; Serial No. 256,983; published June 19, 1928.
Tables and wagons, Tea. Pualman Furniture Company. 246,322; Sept. 4; Serial No. 227,035; published June 26, 1928.

CLASS 33.

Containers serving as absorption vessels, dishes, tubing, etc. Amersil Company. 246,207; Sept. 4; Serial No. 259,834; published June 19, 1928.
Glass for optical manufacture, glass tubes, rods, and plates, glass bottles, etc. Jenaer Glaswerk Schott & Gen. 246,256; Sept. 4; Serial No. 255,514; published June 19, 1928.

CLASS 34.

Apparatus for the burning of fertilizing material. E. Reinau. 246,240; Sept. 4; Serial No. 266,098; published June 26, 1928.
Burners, furnaces, etc. Denver Fire Clay Company. 246,386; Sept. 4; Serial No. 262,158; published June 26, 1928.
Fuel-burning devices, Liquid-. Williams Oil-O-Matic Heating Corporation. 246,114; Sept. 4; Serial No. 265,512; published June 19, 1928.
Gas-burning apparatus and parts thereof. Gas-Aire, Incorporated. 246,151; Sept. 4; Serial No. 266,026; published June 26, 1928.
Heaters, Gas fluid. Sands Manufacturing Company. 246,135; Sept. 4; Serial No. 264,918; published June 26, 1928.
Heating and lighting apparatus. Daimler-Motoren-Gesellschaft. 71,331; renewed Nov. 17, 1928.
Lamp shades, Parchment. J. B. Salterial. 246,294; Sept. 4; Serial No. 261,020; published June 26, 1928.
Lighters, Friction cigar and cigarette. Wales Novelties Corp. 246,137; Sept. 4; Serial No. 264,855; published June 19, 1928.
Lighters, Pyrophoric pocket cigar. J. F. Sturdy's Sons Co. 246,106; Sept. 4; Serial No. 265,175; published June 19, 1928.
Ovens, Bakers'. Petersen Oven Company. 246,128; Sept. 4; Serial No. 265,118; published June 19, 1928.
Ranges, coal ranges, etc., Gas. Great Western Stove Co. 246,372; Sept. 4; Serial No. 265,838; published June 26, 1928.
Ventilating fans. B. F. Sturtevant Company. 246,117; Sept. 4; Serial No. 265,416; published June 19, 1928.

CLASS 35.

Belting and leather washers, Machinery. Graton & Knight Company. 246,268; Sept. 4; Serial No. 266,532; published June 26, 1928.
Belting, Round leather. Western Rawhide & Belting Co. 246,354; Sept. 4; Serial No. 264,130; published June 19, 1928.
Brake lining. Asbestos Spinning and Weaving Corporation. 246,120; Sept. 4; Serial No. 265,312; published June 19, 1928.
Packings, Fibrous sheet. New Jersey Asbestos Company. 246,365; Sept. 4; Serial No. 265,917; published June 19, 1928.
Patches and tire boots, Tire. C. J. Evans. 246,325; Sept. 4; Serial No. 211,577; published June 26, 1928.
Piston rings. Perfect Circle Company. 246,364; Sept. 4; Serial No. 265,927; published June 19, 1928.
Tires and tubes, Auto. Southern Tire And Rubber Company. 246,130; Sept. 4; Serial No. 265,071; published June 26, 1928.
Tires, Automobile. Montgomery Ward & Co. 246,154; Sept. 4; Serial No. 265,981; published June 19, 1928.
Tubes for pneumatic tires, Inner. F. G. Schenuit. 246,308; Sept. 4; Serial No. 243,787; published June 26, 1928.

CLASS 36.

Pianos. Wurlitzer Grand Piano Company. 246,465; Sept. 4.

CLASS 38.

Publication. Swetland Publications, Inc. 246,212; Sept. 4; Serial No. 259,186; published Mar. 13, 1928.
Trade periodicals. Goldschmidt Thermit Company. 72,362; renewed Jan. 19, 1929.

CLASS 39.

Apparel, Ladies' wearing. T. F. Crowley. 246,181; Sept. 4; Serial No. 247,414; published May 29, 1928.
Caps and hats, Men's and boys'. J. Glnaberg & Sons. 246,440; Sept. 4; Serial No. 263,061; published May 29, 1928.
Caps, hats, and bonnets, Infants' and children's. B. Abramson & Bro. 246,388; Sept. 4; Serial No. 262,142; published May 22, 1928.
Clothing. Franklin Simon & Co. Inc. 246,313; Sept. 4; Serial No. 240,816; published May 15, 1928.
Clothing. Hahne & Company. 246,211; Sept. 4; Serial No. 259,490; published May 15, 1928.
Clothing. Holland-Hessol Co. Inc. 246,281; Sept. 4; Serial No. 261,881; published May 15, 1928.
Clothing. Howlett & Hockmeyer Co. 246,337; Sept. 4; Serial No. 260,568; published May 15, 1928.
Clothing, Men's and boys'. B. Nugent & Bro. D. G. Co. 246,460; Sept. 4.
Clothing, Men's and boys'. Perkins Dry Goods Company. 246,456; Sept. 4.
Coats. Seligman & Katz. 246,147; Sept. 4; Serial No. 250,043; published May 15, 1928.
Coats, Camel's-hair. Henry Friedricks & Co. 246,107; Sept. 4; Serial No. 259,850; published May 15, 1928.
Coats, overalls, jumpers, etc., Work. D. M. Oberman Mfg. Co. 246,333; Sept. 4; Serial No. 260,747; published May 8, 1928.
Coats, vests, trousers, and overcoats. Alfred Decker & Cohn, Inc. 246,246; Sept. 4; Serial No. 257,331; published June 12, 1928.

Coats, vests, trousers, etc. B. Kuppenheimer & Co. Inc. 246,221; Sept. 4; Serial No. 263,656; published May 8, 1928.
Coats, vests, trousers, etc. Shirek & Hirsch. 246,206; Sept. 4; Serial No. 262,532; published May 15, 1928.
Collars and cuffs. Hall, Hartwell & Co. 71,021; renewed Oct. 27, 1928.
Corsets, brassières, and girdles. Regal Brassiere Company. 246,422; Sept. 4; Serial No. 262,259; published May 15, 1928.
Corsets, brassières, girdles, etc. Mme. Binner. 246,394; Sept. 4; Serial No. 262,017; published May 8, 1928.
Cravats and mufflers. Smith Brothers Importers Inc. 246,403; Sept. 4; Serial No. 263,354; published May 29, 1928.
Dresses. H. Linsk. 246,187; Sept. 4; Serial No. 262,811; published May 15, 1928.
Dresses. Wm. Simpson, Sons & Co. 246,429; Sept. 4; Serial No. 262,823; published May 15, 1928.
Dresses and aprons. Perfection Garment Company. 246,406; Sept. 4; Serial No. 263,341; published May 22, 1928.
Dresses for women and children. Trippe, Barker & Co. 246,428; Sept. 4; Serial No. 262,827; published May 29, 1928.
Dresses, robes, etc., for ladies. Feldt & Sheinberg. 246 208; Sept. 4; Serial No. 259,719; published May 29, 1928.
Dresses, smocks, etc. Goldie Maid Garment Co. 246,391; Sept. 4; Serial No. 262,077; published May 8, 1928.
Garments, hats, caps, suits, etc., Sleeping-bag. Von Lengerke & Antoine. 246,285; Sept. 4; Serial No. 261,778; published May 8, 1928.
Gloves. Abraham & Straus, Inc. 246,314; Sept. 4; Serial No. 239,220; published Jan. 17, 1928.
Gloves, hats, shoes, slippers, etc. P. Centemeri & Co. 246,159; Sept. 4; Serial No. 260,096; published May 29, 1928.
Gloves, Leather. Perrin Glove Company. 246,405; Sept. 4; Serial No. 263,343; published May 15, 1928.
Goods, Leather and leatherette. Eagle Knitting Mill's. 246,392; Sept. 4; Serial No. 262,068; published May 29, 1928.
Hats and caps. C. Niesenson. 246,295; Sept. 4; Serial No. 261,015; published May 8, 1928.
Hats and caps for men. Knox Hat Company. 246,280; Sept. 4; Serial No. 261,884; published May 8, 1928.
Hats and caps, Men's and boys'. Anchor Cap Co. Inc. 246,257; Sept. 4; Serial No. 255,289; published May 22, 1928.
Hats and hat bodies. R. H. Comey Companies Consolidated. 246,334; Sept. 4; Serial No. 260,718; published May 8, 1928.
Hats, Felt. Henry Pollak, Inc. 246,283; Sept. 4; Serial No. 261,815; published May 8, 1928.
Hats, Felt. Henry Pollak, Inc. 246,341; Sept. 4; Serial No. 260,289; published May 8, 1928.
Hats for men. R. H. Comey Companies Consolidated. 246,168; Sept. 4; Serial No. 259,845; published May 22, 1928.
Hats, Ladies'. Coari Hats, Inc. 246,227; Sept. 4; Serial No. 263,538; published May 15, 1928.
Hosiery. Bear Brand Hosiery Co. 246,437; Sept. 4; Serial No. 263,025; published May 29, 1928.
Hosiery. G. Brenner. 246,417. Sept. 4; Serial No. 262,506; published May 22, 1928.
Hosiery. Doris Silk Hosiery Company. 246,245; Sept. 4; Serial No. 257,351; published May 22, 1928.
Hosiery. Fisher & Schimmel. 246,400; Sept. 4; Serial No. 263,406; published May 8, 1928.
Hosiery. S. A. Goldberg. 246,343; Sept. 4; Serial No. 264,578; published May 29, 1928.
Hosiery. W. T. Grant Company. 246,215; Sept. 4; Serial No. 264,297; published May 29, 1928.
Hosiery. Knoxville Knitting Mills Co. 246,399; Sept. 4; Serial No. 263,477; published May 8, 1928.
Hosiery. M. F. Lawless. 246,468; Sept. 4.
Hosiery. May Hosiery Mills, Inc. 246,383; Sept. 4; Serial No. 262,238; published May 15, 1928.
Hosiery. Mitchell Hosiery Mills. 246,306; Sept. 4; Serial No. 244,945; published Apr. 19, 1927.
Hosiery. Richardson Silk Company. 246,307; Sept. 4; Serial No. 244,574; published May 15, 1928.
Hosiery. Roseknit Hosiery Company. 246,432; Sept. 4; Serial No. 262,934; published May 29, 1928.
Hosiery. State Textile Corporation. 246,276; Sept. 4; Serial No. 261,993; published May 22, 1928.
Hosiery. Studio Hosiery Company. 246,331; Sept. 4; Serial No. 260,861; published May 22, 1928.
Hosiery. Windsor Mills, Inc. 246,426–7; Sept. 4; Serial Nos. 262,835–6; published May 29, 1928.
Hosiery, Ladies'. Woolf Brothers, Inc. 246,176; Sept. 4; Serial No. 251,705; published May 15, 1928.
Hosiery, undershirts, pants, etc. N. Corah & Sons Limited. 246,387; Sept. 4; Serial No. 262,154; published May 29, 1928.
Knickerbockers, golf pants, jackets, etc. Aero-Bocker Co. 246,335; Sept. 4; Serial No. 260,667; published May 22, 1928.
Knickers and trousers. J. Olewitz and Son. 246,336; Sept. 4; Serial No. 260,582; published May 8, 1928.
Leggings. Dorothy South Leg-Gluv Corporation. 246,200; Sept. 4; Serial No. 262,706; published May 29, 1928.
Mackinaws, overcoats, stockings, etc. Pendleton Woolen Mills. 246,430; Sept. 4; Serial No. 262,816; published May 29, 1928.
Neckties. C. Stebbins. 246,244; Sept. 4; Serial No. 257,447; published May 29, 1928.
Neckties, cravats, and scarfs. Frank & Meyer Neckwear Company. 246,441; Sept. 4; Serial No. 263,039; published May 15, 1928.
Neckties, cravats, and scarfs. Frank & Meyer Neckwear Co. 246,442; Sept. 4; Serial No. 263,038; published May 15, 1928.
Neckwear. A. S. Goldman & Co. Inc. 246,184; Sept. 4; Serial No. 245,838; published May 15, 1928.
Neckwear, Ladies' fancy. T. F. Crowley. 246,180; Sept. 4; Serial No. 247,415; published May 29, 1928.
Overalls, coveralls, rompers, etc. Zion's Co-Operative Mercantile Institution. 246,311; Sept. 4; Serial No. 242,764; published May 8, 1928.
Overalls, work pants, and work shirts. Barrow Manufacturing Company. 246,421; Sept. 4; Serial No. 262,284; published May 8, 1928.
Overcoats, topcoats, coats, etc. Barr & Shoulberg, Inc. 246,205; Sept. 4; Serial No. 262,590; published May 8, 1928.
Overcoats, topcoats, reefers, etc. E. C. Millette. 246,321; Sept. 4; Serial No. 228,386; published May 22, 1928.
Pad, Heel. Scholl Mfg. Co. Inc. 246,389; Sept. 4; Serial No. 262,127; published May 22, 1928.
Pants. B. J. Smith. 246,359; Sept. 4; Serial No. 263,975; published May 15, 1928.
Shirts, blouses, and pajamas. S. Liebovitz & Sons, Inc. 246,222; Sept. 4; Serial No. 263,610; published May 29, 1928.
Shirts, blouses, underwear, etc. Southland Manufacturing Company. 246,455; Sept. 4.
Shirts, collars, and cuffs. Hall, Hartwell & Co. 71,022; renewed Oct. 27, 1928.
Shirts, nightshirts, and pajamas. Samuel Valentine Co. 246,242; Sept. 4; Serial No. 257,764; published May 22, 1928.
Shirts, pajamas, and nightgowns. Brownstein-Louis Company. 246,356; Sept. 4; Serial No. 264,075; published May 15, 1928.
Shirts, Work. Wide Awake Shirt Company Inc. 246,439; Sept. 4; Serial No. 262,990; published May 22, 1928.
Shirts, Work, negligee, and dress. Byrne & Hammer Dry Goods Co. 72,126; renewed Jan. 5, 1929.
Shoe soles, linings within shoes, etc. Epstein Brothers Shoe Company. 246,385; Sept. 4; Serial No. 262,163; published May 8, 1928.
Shoes. Smack Shoe Company. 246,438; Sept. 4; Serial No. 263,015; published May 15, 1928.
Shoes. Stern-Auer Company. 246,258; Sept. 4; Serial No. 254,477; published May 15, 1928.
Shoes. Stewart-Dawes Shoe Co. 246 340; Sept. 4; Serial No. 260,297; published May 8, 1928.
Shoes and boots, Leather. Pioneer Shoe Manufacturing Company. 246,452; Sept. 4.
Shoes, bathing caps, bloomers, neckwear, neckties, mufflers, etc. New York Merchandise Company. 246,319; Sept. 4; Serial No. 232,034; published May 15, 1928.
Shoes, Ladies'. John Wanamaker Philadelphia. 246,411; Sept. 4; Serial No. 263,242; published May 15, 1928.
Shoes, Leather. Ideal Shoe Mfg. Co. 246,318; Sept. 4; Serial No. 236,038; published May 22, 1928.
Shoes, Leather. MacLaughlin-Sweet, Inc. 246,320; Sept. 4; Serial No. 230,555; published May 29, 1928.
Shoes and slippers. Elias-Katz Shoe Factories. 246,339; Sept. 4; Serial No. 260,433; published May 15, 1928
Shoes and slippers. H. Jacob & Sons, Inc. 246,163; Sept. 4; Serial No. 259,917; published May 15, 1928.
Slippers and shoes, Boudoir. Jefferson Import Co. 246,316; Sept. 4; Serial No. 238,725; published May 29, 1928.
Stockings. L. Toplitz. 246,303; Sept. 4; Serial No. 263,734; published May 22, 1928.
Suits. Union Joe Manufacturing Co. 246,189; Sept. 4; Serial No. 262,782; published May 15, 1928.
Suits and coats, dresses, underwear, corsets, neckwear, etc. National Department Stores Inc. 246,327; Sept. 4; Serial No. 200,517; published Nov. 17, 1925.
Suits and coats, Men's. M. Berry. 246,338; Sept. 4; Serial No. 260,485; published May 15, 1928.
Suits and overcoats. Epstein Frank & Lochner Inc. 246,464; Sept. 4.
Suits and overcoats. Higginbotham-Bailey-Logan Company. 246,466; Sept. 4.
Suits and overcoats. A. Navasky. 246,410; Sept. 4; Serial No. 263,278; published May 22, 1928.
Suits and overcoats, bathing suits, Men's and boys'. Hilton Company. 246,170; Sept. 4; Serial No. 252 602; published May 29, 1928.
Suits, bath robes, and beach coats, Play. Ely & Walker Dry Goods Co. 246,174; Sept. 4; Serial No. 251,960; published May 15, 1928.
Suits, Bathing. Madelon Modes, Inc. 246,390; Sept. 4; Serial No. 262,102; published May 15, 1928.
Suits, overcoats, etc., Men's. Haber's Incorporated. 246,216; Sept. 4; Serial No. 259,803; published May 29, 1928.
Suits, overcoats, etc., Men's and boys'. Hilton Company. 246,171; Sept. 4; Serial No. 252,600; published May 29, 1928.
Suits, Swimming. Associated Merchandising Corporation. 246,433; Sept. 4; Serial No. 262,890; published May 1, 1928.

Supporters, Hose. George Frost Company. 246,217; Sept. 4; Serial No. 259,723; published May 29, 1928.
Sweaters, dresses, and bathing suits, Knit. C. G. Lampl. 246,188; Sept. 4; Serial No. 262,810; published May 15, 1928.
Ties, Men's. Harry Feller Company. 246,164; Sept. 4; Serial No. 259,902; published May 29, 1928.
Underskirts, slips, and petticoats. Winget Kickernick Company. 246,254; Sept. 4; Serial No. 258,245; published May 8, 1928.
Underthings for women and children. R. H. Macy & Co. 246,282; Sept. 4; Serial No. 261,823; published May 8, 1928.
Underwear. Ipswich Mills. 246,183; Sept. 4; Serial No. 246,288; published May 29, 1928.
Underwear. Utica Knitting Company. 246,202; Sept. 4; Serial No. 262,636; published May 8, 1928.
Underwear and nightwear, Men's and children's. Sexton Manufacturing Company. 246,401; Sept. 4; Serial No. 263,431; published May 29, 1928.
Underwear, Children's. Royal Manufacturing Company. 246,186; Sept. 4; Serial No. 245,660; published May 29, 1928.
Underwear, Glove-silk. Luxite Silk Products Company. 246,310; Sept. 4; Serial No. 243,443; published May 15, 1928.
Underwear, Knitted. Griffin Buggy Co. 246,323; Sept. 4; Serial No. 226,193; published May 29, 1928.
Underwear, Ladies' silk and rayon textile. Progressive Underwear Co. 246,419; Sept. 4; Serial No. 262,412; published May 15, 1928.
Underwear, vests, bloomers, etc., Athletic. National Textile Distributors Corporation. 246 210; Sept. 4; Serial No. 259,569; published May 8, 1928.
Waist union suits and outer garments. J. Feinberg. 246,175; Sept. 4; Serial No. 251,898; published Oct. 4, 1928.

CLASS 40.

Braid, other braid, fringe, tapes, ribbons, Awning. Priscilla Braid Co. 246,260; Sept. 4; Serial No. 262,178; published June 5, 1928.

CLASS 42.

Blankets, All-wool. Cedarburg Woolen Mills. 246,104; Sept. 4; Serial No. 265,598; published June 19, 1928.
Blankets, Woolen. Pendleton Woolen Mills. 246,461; Sept. 4.
Carpets, Textile. Hardwick & Magee Company. 246,449; Sept. 4.
Cotton ducks and drills, awning stripe, and ticking. John Boyle & Company Incorporated. 246,178; Sept. 4; Serial No. 250,623; published June 26, 1928.
Cotton piece goods. Ridley Watts & Company. 246 239; Sept. 4; Serial No. 266,100; published June 26, 1928.
Cotton piece goods. Dyed. The Millville Manufacturing Company. 78,831; renewed Dec. 15, 1928.
Cotton piece goods, Printed. National Fabric & Finishing Company. 246,263; Sept. 4; Serial No. 266,612; published June 26, 1928.
Cotton piece goods, Printed. National Fabric & Finishing Company. 246 264; Sept. 4; Serial No. 266,610; published June 26, 1928.
Cotton, wool, linen, etc., piece goods. S. Slater and Sons, Inc. 246,404; Sept. 4; Serial No. 263,353; published June 19, 1928.
Fabrics in the piece. Empire Piece Dyeing and Finishing Company. 246,261; Sept. 4; Serial No. 266,724; published June 26, 1928.
Fabrics, Woolen textile. Atlantic Mills. 246,149–50; Sept. 4; Serial Nos. 266,074–5; published June 26, 1928.
Goods, Piece. S. Slater and Sons, Inc. 246,435; Sept. 4; Serial No. 262 973; published June 19, 1928.
Handkerchiefs. International Manufacturing Co. 70,882–6; renewed Oct. 13, 1928.
Rayon and cotton piece goods. Seekonep Silk Company. 246,408–9; Sept. 4; Serial Nos. 263,289–90; published Jan. 26, 1928.
Rayon and silk piece goods. Seekonep Silk Company. 246 144; Sept. 4; Serial No. 263,288; published June 26, 1928.
Rayon and silk piece goods. Susquehanna Silk Mills. 246,107; Sept. 4; Serial No. 265,588; published June 26, 1928.
Robes, steamer rugs, blankets, etc., Lap. Curtis & Von Bernuth Mfg. Co. 246,251; Sept. 4; Serial No. 256,612; published June 19, 1928.
Rugs. S. Barnchson. 246,369–70; Sept. 4; Serial Nos. 265,880–1; published June 26, 1928.
Silk, and silk and cotton, and silk and wool mixture fabrics. Wechsler-Barber Silk Company. 246,374; Sept. 4; Serial No. 265,745; published June 26, 1928.
Silk piece goods. Algonquin Silk Corp. 246,118; Sept. 4; Serial No. 265,354; published June 26, 1928.
Silks. Capitol Silk Corporation. 246 152; Sept. 4; Serial No. 266,020; published June 26, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 246,273–4; Sept. 4; Serial Nos. 266,313–14; published June 19, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 246 275; Sept. 4; Serial No. 266,311; published June 19, 1928.

CLASS 43.

Threads. Textile. Belding Heminway Company. 246 172–3; Sept. 4; Serial Nos. 252,540–1; published June 12, 1928.
Threads, yarns, and cottons. T. Buettner & Co. 246,116; Sept. 4; Serial No. 265,467; published June 26, 1928.
Yarns, Silk. American Silk Spinning Co. 246,138; Sept. 4; Serial No. 264,792; published June 26, 1928.
Yarns and threads. Duplan Silk Corporation. 246,124–5; Sept. 4; Serial Nos. 265,148–9; published June 26, 1928.

CLASS 44.

Permanent-hair-wave pad. A. E. Ciarlante. 246,296; Sept. 4; Serial No. 263,812; published May 29, 1928.

CLASS 45.

Beverage syrups, and concentrates for making soft drinks, Orange. Vendometer Corporation. 246,291; Sept. 4; Serial No. 261,409; published June 26, 1928.
Beverages. C. E. Cederlund. 246,177; Sept. 4; Serial No. 251,321; published June 26, 1928.
Beverages, Itegina Products, Inc. 246,109; Sept. 4; Serial No. 265,563; published June 26, 1928.
Beverages and sirups for making same, Maltless. Liberty Bottling Company. 246,272; Sept. 4; Serial No. 266 326; published June 19, 1928.
Beverages, Carbonated. New York Bottling Co. Inc. 246 165; Sept. 4; Serial No. 259,864; published June 19, 1928.
Beverages, Maltless. Blue Ridge Bottling Co. 246,158; Sept. 4; Serial No. 265,942; published June 19, 1928.
Beverages, Maltless. California Beverage Co. 246,157; Sept. 4; Serial No. 265,948; published June 19, 1928.
Beverages, Maltless. Coca Cola Bottling Company. 246,127; Sept. 4; Serial No. 265,140; published June 19, 1928.
Ginger ale. King of Clubs, Inc. 246,360; Sept. 4; Serial No. 263,953; published June 19, 1928.
Juice, Citrus-fruit. G. Singleton. 246,232; Sept. 4; Serial No. 266,277; published June 19, 1928.
Powder to be used as an ingredient in the preparation of soft drinks. K. I. Bruun. 246,266; Sept. 4; Serial No. 266,579; published June 26, 1928.
Sirups and concentrates for use in making soft drinks. H. J. Zwelfel. 246,348; Sept. 4; Serial No. 264,342; published June 19, 1928.

CLASS 46.

Apples and pears. Mid-Columbia Cold Storage Corporation. 246,252; Sept. 4; Serial No. 256,183; published Dec. 27, 1927.
Bread. C. L. Adams. 246,454; Sept. 4.
Candy. Carpenter Cook Co. 246,113; Sept. 4; Serial No. 265 520; published June 19, 1928.
Candy. Curtiss Candy Company. 246,146; Sept. 4; Serial No. 249,407; published June 26, 1928.
Candy. Elgin Chocolate Products Co. 246,376; Sept. 4; Serial No. 265,720; published June 26, 1928.
Candy. Euclid Candy Company. 246,112; Sept. 4; Serial No. 265,527; published June 19, 1928.
Candy. Hand-Spun Chocolates, Inc. 246,350; Sept. 4; Serial No. 264,302; published June 19, 1928.
Candy. Hawley & Hoops. 246,366; Sept. 4; Serial No. 265,903; published June 26, 1928.
Candy. A. B. Mewhinney Co. Inc. 246,247; Sept. 4; Serial No. 257,301; published Dec. 27, 1927.
Candy. Repetti, Inc. 246,108; Sept. 4; Serial No. 265,565; published June 19, 1928.
Candy. Ward-Owsley Co. Inc. 246,235; Sept. 4; Serial No. 266,230; published June 19, 1928.
Candy. E. R. Wooster. 246,373; Sept. 4; Serial No. 265,821; published June 19, 1928.
Chocolates and bonbons. R. M. Haan Candy Co. 246,292; Sept. 4; Serial No. 261,189; published June 19, 1928.
Coffee. Bacon, Stickney & Co. 246,381; Sept. 4; Serial No. 265,610; published June 19, 1928.
Coffee. Maury-Cole Company. 246,377; Sept. 4; Serial No. 265,673; published June 19, 1928.
Coffee. Phelan Grocery Company. 246,110; Sept. 4; Serial No. 265,558; published June 26, 1928.
Coffee and tea. C. W. Antrim & Sons. 246,218; Sept. 4; Serial No. 266 295; published June 26, 1928.
Confectionery. Licorice. National Licorice Company. 246,279; Sept. 4; Serial No. 261,903; published June 19, 1928.
Fat, Vegetable. I. Rokeach & Sons, Inc. 246,328; Sept. 4; Serial No. 260 963; published June 26, 1928.
Flour, Wheat. Waterloo & Cedar Falls Union Mill Company. 70,697; renewed Sept. 22, 1928.
Food products. G. Montaperto. 246,457; Sept. 4.
Foods. H. F. Hemingway & Co. 71,811; renewed Dec. 15, 1928.
Gum, Chewing. Mint Gum Company. 246,317; Sept. 4; Serial No. 237,379; published Nov. 2, 1926.
Ham, bacon, and sausages. Pavelka Brothers Company. 246,185; Sept. 4; Serial No. 245,805; published June 19, 1928.
Ham spread. C. A. Levy. 246,155; Sept. 4; Serial No. 265,975; published June 19, 1928.
Kraut juice. Cab-a-Lac Company. 246,344; Sept. 4; Serial No. 264,556; published June 19, 1928.
Lard, Swift & Company. 246,300; Sept. 4; Serial No. 263,792; published June 26, 1928.
Onions and fresh potatoes, Fresh. Empire Navigation Company. 246,382; Sept. 4; Serial No. 265,601; published June 26, 1928.
Peanuts, Salted. Fletcher-Wilson Coffee Co. 246,367; Sept. 4; Serial No. 265 896; published June 19, 1928.

Pineapple, grapefruit, oranges, and cocoanuts. Del Rio Plantations, Inc. 246,393; Sept. 4; Serial No. 262,066; published May 8, 1928.
Potatoes, Fresh. Albert Miller & Company. 246,153; Sept. 4; Serial No. 266,009; published June 19, 1928.
Poultry, Live. W. A. Weber. 246,139; Sept. 4; Serial No. 264,786; published June 26, 1928.
Preserves, Grapefruit. J. A. Bassis. 246,119; Sept. 4; Serial No. 265,361; published June 26, 1928.
Prunes, Dried. Del Rio Packing Corporation. 246,304; Sept. 4; Serial No. 253,875; published June 26, 1928.
Salami, bologna, pepper meat, etc. United Kosher Sausage Company. 246,312; Sept. 4; Serial No. 241,590; published June 19, 1928.
Sausage casings. Visking Corporation. 246,105; Sept. 4; Serial No. 265,592; published June 12, 1928.
Sausages Frankfort style. Naamlooze Vennootschap H. Noack's Koninklijke Fijne Vleeschwaren-en Conservenfabrieken. 246,243; Sept. 4; Serial No. 257,592; published June 26, 1928.
Shrimp cocktail in glass jars. Joseph Michel & Co. 246,402; Sept. 4; Serial No. 263,411; published June 19, 1928.
Tea, L. Beling. 246,284; Sept. 4; Serial No. 261,786; published June 26, 1928.
Tongue, corned beef, roast beef, etc. Barnet Brodie, Inc. 246,395; Sept. 4; Serial No. 263,015; published June 19, 1928.
Vegetables, Fresh. G. B. Musante. 246,361; Sept. 4; Serial No. 263,882; published June 19, 1928.
Vegetables, Preserved. Industria Marmellate e Conserve Alimentari. 246,326; Sept. 4; Serial No. 265,120; published June 19, 1928.

CLASS 48.

Ale, beer, and porter. Consumers Brewing Company. 70,220; renewed Aug. 11, 1928.
Beer. M. B. Foster & Sons, Limited. 72,048; renewed Dec. 29, 1928.

CLASS 50.

Fabrics, Waterproof textile oiled. A. J. Tower Company. 72,345; renewed Jan. 19, 1929.
Traps, Rat. Animal Trap Company of America. 246,447; Sept. 4.

ALPHABETICAL LIST OF LABELS.

Ace Cleaner Cleans Everything. For Preparation for General Cleaning. Ace Manufacturing Co. 34,513; Sept. 4.
All Purpose Mount. For Mounts for X-Ray Films Used in Dental Surgery. E. P. Cressler. 34,521; Sept. 4.
Badger. For Ice Cream. Badger Ice Cream Company. 34,519; Sept. 4.
Clean Up Cleanser. For Cleansing Powder. F. Nack, jr. 34,533; Sept. 4.
Ed-U-Game. For Educational Toys. S. M. Boogher. 34,520; Sept. 4.
Electric Christmas Tree Outfit. For Electric Christmas-Tree Outfits. I. & C. Young, Inc. 34,545; Sept. 4.
Exit Paint Cleaner. For Composition for Cleaning Paint. Schalk Chemical Co. 34,539; Sept. 4.
Heart of America. For Ginger Ale. Hekelnkaemper Bros. 34,526; Sept. 4.
Joanna. For Canned Asparagus. Pratt-Low Preserving Co. 34,536; Sept. 4.
Lord Baltimore Standard Radio "B" Battery. For Radio "B" Batteries. Sturges Multiple Battery Corp. 34,543; Sept. 4.
Lucas Blue & Gold. For Fresh Grapes. Lucas Ranching Company. 34,530; Sept. 4.
More Than A Toy. For Amusement Device. M. D. Shakeshaft. 34,541; Sept. 4.
Naborhood. For Macaroni and Similar Alimentary Food Products. Feeser Macaroni Company. 34,522; Sept. 4.
Nuts and Raisins. For Chocolate Bar Containing Nuts and Raisins. A. N. Stollwerck. 34,542; Sept. 4.
Pandorn Stockings. For Hosiery. John M. Given Company. 34,524; Sept. 4.
Pini Cheese. For Cheese. L. Pini. 34,535; Sept. 4.
Red Circle Candy Co. White Tower Assorted Chocolates. For Candy. Milwaukee Paper Box Co. 34,531; Sept. 4.
Reichardt's Chocolate Covered Cherries. For Candy. Reichardt Cocoa & Chocolate Co. 34,537; Sept. 4.
Right Service R S. For Head Lettuce. Richman & Samuels Inc. 34,538; Sept. 4.
SavaPowr Gear Lubricant. For Gear Lubricant. American Oil Corporation. 34,516; Sept. 4.
SavaPowr Hi-Pressure Lubricant. For High-Pressure Lubricant. American Oil Corporation. 34,517; Sept. 4.
SavaPowr Motor Oil. For Motor Oil. American Oil Corporation. 34,518; Sept. 4.
Savon Naunt For the Woman Who Can Afford a Better Soap. For Soap. Naunt, Inc. 34,534; Sept. 4.
Schlitz Malt-Famous. For Malt Syrup Jos. Schlitz Beverage Company. 34,540; Sept. 4.
Sigari Flume. For Cigars. G. Alberl. 34,514; Sept. 4.
Stop-A-Leak. For Roof Coating. Mineral-Lac Paint Co. 34,532; Sept. 4.
Sturup. For Chocolate Malted Powder. Frederick W. Huber, Inc. 34,528; Sept. 4.
Sun-Tox. For a Textile Product Which Promotes Growth. Allen Brothers Inc. 34,515; Sept. 4.
Surety Powdered Face Soap. For Dry Powdered Toilet Soap. Surety Manufacturing Co. 34,544; Sept. 4.
The Invisible Adjustable. For Linings for Caps for Men, Boys, and Children. Greenstein & Josephson. 34,525; Sept. 4.
The Last Word in a Powder-Puff. For Powder Puffs. C. Franck. 34,523; Sept. 4.
Valley Vista. For Fresh Oranges. Hillside Packing Association. 34,527; Sept. 4.
V-O-G. For Eggs. La Brea Securities Co. 34,529; Sept. 4.

ALPHABETICAL LIST OF PRINTS.

Adform 84. For Coffee. Hills Bros. 11,198; Sept. 4.
Adform 85. For Coffee. Hills Bros. 11,197; Sept. 4.
Art Bumpers by C. G. For Vehicle Bumpers. C. G. Spring & Bumper Company. 11,192; Sept. 4.
Artistic Bumpers. For Vehicle Bumpers. C. G. Spring & Bumper Company. 11,193; Sept. 4.
Careful Boy!—It's Spread Thick—That Moist and Creamy Heinz Peanut Butter. For Peanut Butter. H. J. Heinz Company. 11,196; Sept. 4.
Collingbourne's Lustex Floss. For Darning Cotton. Collingbourne Mills, Inc. 11,194; Sept. 4.
Designed for Looks, Made for Service, Tip-Top Graces any Wrist. For Watches. New Haven Clock Company. 11,202; Sept. 4.
Handsome, Dependable and Sturdy, Tip-Top is a Wrist-Watch You'll Be Proud to Own. For Watches. New Haven Clock Company. 11,199; Sept. 4.
Inspect Tip-Top for Yourself and be Critical. For Watches. New Haven Clock Company. 11,201; Sept. 4.
Judge Tip-Top by any Standards Put it to Any Test. For Watches. New Haven Clock Company. 11,203; Sept. 4.
Keep Motors New—Pennzoil Safe Lubrication. For Lubricating Oils and Greases. Pennzoil Company Inc. 11,204; Sept. 4.
Swim for Shore—It's Eskimo Pie! For Frozen Confections. Eskimo Pie Corporation. 11,195; Sept. 4.
The Arlok Bushing. For Bushings. Universal Standard Company. 11,205; Sept. 4.
Tip-Top is a Fine Wrist-Watch at any Price—It Costs Only $3.50. For Watches. New Haven Clock Company. 11,200; Sept. 4.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF SEPTEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Amidon, Ray E., assignor.)
A C Spark Plug Company. (See Champion, Albert, assignor.)
A C Spark Plug Company. (See Helgeby, Ralph O., assignor.)
Aarvig, Rasmus, deceased, Pontiac, Ill.; B. A. Jenkins, administratrix. Cultivator. 1,683,008; Sept. 4.
Acme Card System Company. (See Powell, Frank D., assignor.)
Acosta y Velo, Angel. (See Santos y Suarez, I., and Acosta y Velo.)
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Brake rod. 1,683,516; Sept. 4.
Adams & Westlake Company, The. (See Hamm, William S., assignor.)
Adlon, Joseph W., St. Louis, Mo. Time stamp. 1,683,319; Sept. 4.
Aktieselskapet Norsk Staal Elektrisk-Gas-Reduktion (See Edwin, Emil, assignor.)
Aldeen, Gedor W., assignor to Fyrac Manufacturing Co., Rockford, Ill. Spotlight switch. 1,683,320; Sept. 4.
Alland, Maurice, Atlantic City, N. J. Game. 1,682,822; Sept. 4.
Allardt, Hans G. (See Schoeller, W., and Allardt.)
Allen, William A., New York, N. Y. Device for controlling radiator shutters. 1,683,433; Sept. 4.
Altenkirch, Edmund, Altlandsberg-Sud, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, Germany. Heating buildings. 1,683,434; Sept. 4.
Altman, Vladislav, Racine, Wis. Vehicle signal. 1,683,278; Sept. 4.
Aluminum Company of America. (See Doerschuk, Victor C., assignor.)
American Anode Incorporated, The. (See Klein, P., and Henley, assignors.)
American Bemberg Corporation. (See Meyer-Gaus, Karl, assignor.)
American Bemberg Corporation. (See Otto, G., Hartmann, and Rauriedel, assignors.)
American Bottle Company, The. (See Ginter, Paul A., assignor.)
American Hoist & Derrick Company. (See Sederholm, John E., assignor.)
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Meter Company. (See Linderman, Garrett B., jr., assignor.)
American Optical Company. (See Maynard, Albert E., assignor.)
American Phototure Company. (See Pifer, George N., assignor.)
American Pulverizing Company. (See Roebke, Ernest T., assignor.)
American Rolling Mill Company, The. (See Tytus, John B., assignor.)
American Steel and Wire Company of New Jersey, The. (See Pfifer, James S., assignor.)
American Steel and Wire Company of New Jersey, The. (See Robertshaw, James E., assignor.)
American Steel Foundaries. (See Harris, Mark, assignor.)
American Type Founders Company. (See Kelly, William M., assignor.)
Amidon, Ray E., assignor to A C Spark Plug Company, Flint, Mich. Hairspring-adjustment retainer. 1,683,009; Sept. 4.
Amiesite Asphalt Company of America. (See Sadtler, Samuel S., assignor.)
Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. System of electrical distribution. 1,683,147; Sept. 4.
Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Electrical distribution system. 1,683,227; Sept. 4.
Anderson, Charles, Seattle, Wash. Apparatus for raising water. 1,683,321; Sept. 4.
Anderson, Joseph M., Elko, Minn. Rotary liquid pump. 1,683,010; Sept. 4.
Anderson, Karl E., Chicago, Ill. Material holder. 1,683,279; Sept. 4.
Anderson, Roland G., New Haven, Conn., and J. Gaines, Woonsocket, R. I., assignors to L. Candee & Co., New Haven, Conn. Sole pattern. 1,682,880; Sept. 4.
Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Forging. 1,683,011; Sept. 4.
Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Flame shield. Des. 76,215; Sept. 4.
Anglo-California Trust Company. (See Eley, Forrest W., assignor.)
Annis, Burton B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Valve. 1,683,322; Sept. 4.
Appleby, Thomas, Philadelphia, assignor to A. A. Kent, Ardmore, Pa. Control method and apparatus. 1,683,012; Sept. 4.
Archer, Merton T., Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio. Tandem-barrel well pump. 1,683,435; Sept. 4.
Armstrong, Edward R., assignor to F. O. Schoedinger, Columbus, Ohio. Adjustable shelf support. 1,683,228; Sept. 4.
Arnold, Charles L., Bardstown, Ky. Railroad crosstie. 1,683,013; Sept. 4.
Arthur, James L., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Variable-resistance switch. 1,683,280; Sept. 4.
Asbury, Dorsey F., et al. (See Gibson, Howard S., assignor.)
Asbury, Dorsey F., Washington, D. C. Explosive engine of the rotating-cylinder type. 1,683,229; Sept. 4.
Ashley, George C., San Francisco, Calif. Decorating transparent surfaces. 1,683,282; Sept. 4.
Ashton, James T., assignor to Nichols & Shepard Company, Battle Creek, Mich. Shaker mechanism in agricultural devices. 1,682,733; Sept. 4.
Asire, Horace W., assignor to General Motors Research Corporation, Dayton, Ohio. Intake manifold. 1,683,281; Sept. 4.
Auberlin, William, Northfield, Ohio. Airship anchorage. 1,683,323; Sept. 4.
Austin, John A., San Francisco, assignor of two-thirds to E. A. Seyler, Oakland, Calif. Bumper-actuated control mechanism. 1,682,731; Sept. 4.
Automatic Merchandizer Inc., The. (See Lea, Charles, assignor.)
Autostrop Patents Corporation. (See Galsman, H. J., and Schumacher, assignors.)
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Liquid-measuring valve. 1,683,120; Sept. 4.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
B. & B. Shoe Company. (See Golden, Louis J., assignor.)
Babcock, Fay L., St. Petersburg, Fla. Puzzle. 1,683,014; Sept. 4.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Backstatter, Joseph, Winfield, N. Y. Excess-steam-pressure signal. 1,683,148; Sept. 4.
Baer, Emanuel H. (See Ernest, W., and Baer.)
Baker, Walter R. G., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,683,230; Sept. 4.
Baker, William H., Boston, Mass. Lay motion for looms. 1,683,324; Sept. 4.
Baldwin, Leon F. N., Edgewood, assignor of one-half to B. S. Clark, Providence, R. I. Line marker for roadbeds. 1,683,121; Sept. 4.
Ball, Clarence R., Washington, D. C. Folding twin beds. 1,683,149; Sept. 4.
Barbour, Clifford W., and L. S. Carson, Norman, Okla. Closure seal. 1,683,015; Sept. 4.
Barbour Flax Spinning Co. (See Barbour, Robert, assignor.)
Barbour, Robert, assignor to Barbour Flax Spinning Co., Paterson, N. J. Spinning machine. 1,683,436; Sept. 4.
Barord, Paul J., Dormont Borough, assignor to The Sterling Varnish Company, Pittsburgh, Pa. Coating apparatus. 1,682,823; Sept. 4.
Barron, Grace A. (See Cohen, Samuel, assignor.)
Bassick Manufacturing Company, The. (See Creveling, John L., assignor.)
Bassick Manufacturing Company, The. (See Davis, Ernest W., assignor.)
Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
Bassick Manufacturing Company, The. (See Piquerez, Emile, assignor.)

Bassick Manufacturing Company, The. (See Robin, John N., assignor.)

Bassick Manufacturing Company, The. (See Thomas, George F., assignor.)

Batle, Joseph E., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Forming drawn articles. 1,683,437; Sept. 4.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Leg of a chair or settee. Des. 76,216; Sept. 4.

Banriedel, Gotthard. (See Otto, G., Hartmann, and Bauriedel.)

Bayne, Alexander H., Windsor, Ontario, Canada. Switch. 1,683,231; Sept. 4.

Beans, John F., and B. Le Roy, Massillon, Ohio. Spring forming and tempering machine. 1,682,734; Sept. 4.

Beard, Clement E., Columbiana, Ohio. Step attachment for stools. 1,682,732; Sept. 4.

Beattie, Arthur E., Manzanillo, Cuba. Antistatic arrangement in wireless receiving apparatus. 1,683,122; Sept. 4.

Beaudry, Leon N., Calgary, Alberta, Canada. Cashier's protector. 1,682,881; Sept. 4.

Beaver, Homer, Chickasha, Okla. Gin brush. 1,682,950; Sept. 4.

Bechtelheimer, Harry A., Rock Island, and H. P. Corbin, Moline, Ill., assignors, by mesne assignments, to Moline Implement Company. Power farming apparatus. 1,683,017; Sept. 4.

Beck, Michael, Minneapolis, Minn. Combination air and electric brake. 1,682,824; Sept. 4.

Becker, John J., New York, N. Y. Mechanical toy. 1,683,232; Sept. 4.

Beebe, Orlando M. (See Bell, E. L., and Beebe.)

Beeby, James, Chicago, Ill. Semaphore and the like for automobiles. 1,682,951; Sept. 4.

Bell, Elva L., and O. M. Beebe, Spokane, Wash. Roofing strip. 1,683,016; Sept. 4.

Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Fractional distillation of petroleum. 1,683,150; Sept. 4.

Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Method and apparatus for distilling petroleum oils. 1,683,151; Sept. 4.

Bellows, Henry W. (See Bodwell, P. D., and Bellows.)

Bemis Bro. Bag Company. (See Finn, L. J., and Morrill, assignors.)

Bendix Brake Company. (See Bendix, Vincent, assignor.)

Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Lever. 1,683,378; Sept. 4.

Bentley, Marguerite E., Longfield, England. Dustpan and the like. 1,683,517; Sept. 4.

Berg, Olav, Paterson, N. J. Process and apparatus for washing fabrics. 1,683,325; Sept. 4.

Berger Manufacturing Company, The. (See Haldeman, Walter S., assignor.)

Bergerioux, René, Reuilly, France. Seed and grain distributor. 1,682,735; Sept. 4.

Bergerioux, René, Issoudun, France. Machine for distributing fertilizer, seeds, and grain. 1,682,823; Sept. 4.

Bergmann, Carl, jr., Lynbrook, assignor of one-half to G. R. Thompson, New York, N. Y. Apparatus for drawing metal. 1,683,123; Sept. 4.

Berry, Henry J., assignor of one-third to C. W. Floss, Detroit, Mich. Compressor piston. 1,682,736; Sept. 4.

Berthel, Charles J., assignor to Hackney Brothers, Inc., Wilson, N. C. Cooling tank for refrigerators. 1,683,518; Sept. 4.

Besly, Charles H., and Company. (See Miller, John, jr., assignor.)

Betts, John C., Philadelphia, Pa. Necktie retainer. 1,682,952; Sept. 4.

Bickford, Clarence R., Northwood Narrows, N. H. Chimney cleaner. 1,683,379; Sept. 4.

Biddle & Smart Company. (See Houle, Francis T., assignor.)

Bidwell, George L., Riegelsville, Pa., assignor to The Warren Manufacturing Company, Riegelsville, N. J. Method of and apparatus for making multiply paper. 1,682,826; Sept. 4.

Biegler, Louis T., Aberdeen, S. Dak. Automobile lifter. 1,683,020; Sept. 4.

Biermanns, Josef, Karlshorst, near Berlin, Germany, assignor to General Electric Company. Corona-preventing apparatus. 1,683,152; Sept. 4.

Billings, George P., Albany, Wis. Roof-framing rule. 1,683,438; Sept. 4.

Bishop, James A., deceased, Mascoutah, Ill.; L. H. Bishop, administratrix. Valve. 1,683,153; Sept. 4.

Bishop, James A., deceased, Mascoutah, Ill.; L. H. Bishop, administratrix. Valve. 1,683,154; Sept. 4.

Bishop, Lulu H., administratrix. (See Bishop, James A.)

Biszantz, Fred, assignor, by mesne assignments, to The Central Ohio Steel Products Company, Gallon, Ohio. Dumping body. 1,682,882; Sept. 4.

Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Structural unit. 1,683,439; Sept. 4.

Black, Lee J., Beaumont, Tex. Steel walking beam. 1,682,883; Sept. 4.

Blackburn, Jasper, Webster Groves, Mo. Cable hanger. 1,682,737; Sept. 4.

Blaine, Joseph R., Oak Park, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press ductor mechanism. 1,683,243; Sept. 4.

Blair, Minnie. (See Blair, O. M., and Williams, assignors.)

Blair, Orville M., and W. E. Williams; said O. M. Blair assignor to M. Blair, San Francisco, Calif. Towel-vending device. 1,683,519; Sept. 4.

Blaslar, Arthur F., Guilford, N. Y. Torpedo. 1,683,124; Sept. 4.

Blauvelt, Frederic D., Montclair, N. J. Plumber's trap. Des. 76,217; Sept. 4.

Blaw-Knox Company. (See Venable, William M., assignor.)

Blum, Harold T., Glenmont, Ohio. Head covering. 1,683,233; Sept. 4.

Blum, Harold T., Glenmont, Ohio. Sweatband for head coverings. 1,683,234; Sept. 4.

Blum, Harold T., Glenmont, Ohio. Sweatband for head coverings. 1,683,326; Sept. 4.

Bodwell, Paul D., and H. W. Bellows, assignors to Deca Disc Phonograph Company, Waynesboro, Pa. Record holder for talking machines. 1,683,440; Sept. 4.

Boman, Claes W., Brooklyn, N. Y., and C. Kalser, Carlstadt, N. J., assignors to Eagle Pencil Company, New York, N. Y. Pencil. 1,683,235; Sept. 4.

Bone, Russell, Milledgeville, Ga. Hollow clay-tile building block. 1,683,441; Sept. 4.

Bonney Forge & Tool Works. (See Durham, J. E., jr., and Hume, assignors.)

Botsford, Claude W., Chicago, Ill., assignor to W. W. Odell, Pittsburgh, Pa. Gas generator. 1,683,155; Sept. 4.

Boda, Joseph E., Moline, Ill., assignor, by mesne assignments, to Moline Implement Company. Universal agricultural implement. 1,683,018; Sept. 4.

Boda, Joseph E., Moline, Ill., assignor, by mesne assignments, to Moline Implement Company. Universal agricultural implement. 1,683,019; Sept. 4.

Bonnard, Georges, Le Touvet, France. Treating crape waste. 1,683,520; Sept. 4.

Botson, René, Auderghem-Brussels, assignor to Société Industrielle des Applications Chimiques, Société Anonyme, Brussels, Belgium. Preparing depilatory substances. 1,683,442; Sept. 4.

Bott, Edgar S., and A. S. Funk, La Crosse, Wis. Overshoe. Des. 76,218; Sept. 4.

Bouharoun, Sliman E., Waterbury, Conn. Folding chair. 1,683,327; Sept. 4.

Bourgognion, Jullanus W. M., and C. L. Phillips, Nijmegen, Netherlands. Treating water. 1,683,521; Sept. 4.

Bowers, Ernest C. (See Rosenbaum, L. F., and Bowers.)

Bowman, Harvey M., Mountain View, Calif. Safety bumper. 1,683,283; Sept. 4.

Boyd, John S., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass. Textile fabric. Des. 76,219; Sept. 4.

Boyd John S., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass. Textile fabric. Des. 76,220; Sept. 4.

Boyd, John S., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass. Textile fabric. Des. 76,221; Sept. 4.

Boyd, John S., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass. Textile fabric. Des. 76,222; Sept. 4.

Boyd, John S., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass. Textile fabric. Des. 76,223; Sept. 4.

Boyd, John S., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass. Textile fabric. Des. 76,224; Sept. 4.

Boyd Textile Corporation. (See Boyd, John S., assignor.)

Brady, Terrice G., and C. Nelkin, New York, N. Y. Fabric grip. 1,683,125; Sept. 4.

Brand, Harry R., New York, N. Y. Commodity control. 1,682,827; Sept. 4.

Brand, Harry R., New York, N. Y. Mechanism and method for controlling business. 1,682,828; Sept. 4.

Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 76,225; Sept. 4.

Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 76,226; Sept 4.

Bransky, Oscar E. (See Glair, H. F., and Bransky.)

Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Mount for drawing tables and the like. 1,683,443; Sept. 4.

Braun, Carl F., Pasedena, Calif. Heat-exchanging apparatus. 1,683,236; Sept. 4.

Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Self-opening die head. 1,683,126; Sept. 4.

Breithaupt, Oscar, Detroit, Mich. Nail container and dispenser. 1,683,328; Sept. 4.

Bremer, Norman C., assignor to Morse Chain Company, Ithaca, N. Y. Oiling device for drive chains. 1,682,829; Sept. 4.

Bridge, Herbert H., Detroit, Mich. Priming device. 1,682,953; Sept. 4.

Bridgeport Brass Company. (See Bright, Weston F., assignor.)

Bright, Weston F., Longmeadow, Mass., assignor to Bridgeport Brass Company, Bridgeport, Conn. Automatic flushing valve. 1,683,062; Sept. 4.

Brill, J. G., Company, The. (See Adams, Walter S., assignor.)

Brinton, William C., jr., assignor to Philbrin Corporation, Kennett Square, Pa. Contact maker and interrupter. 1,683,444; Sept. 4.

Broadley, Henry, Walkerville, Ontario, Canada. Advertising and display device. 1,682,884; Sept. 4.

Brock, Edwin C., Minneapolis, Minn. Bread-slicing machine. 1,683,445; Sept. 4.

Brockmeyer, Joseph A., Brookline, Pa. Self-expanding piston. 1,683,380; Sept. 4.

Bronson, Oscar A., Minneapolis, Minn. Cover for an electrical switch box. Des. 76,227; Sept. 4.

Broussouse, Fernand L., Paris, France. Damping oscillations for use with suspension leaf springs and the like. 1,683,522; Sept. 4.

Brown, Chester H., Kopperl, Tex. Lawn swing. 1,683,237; Sept. 4.

Brown Company. (See Richter, G. A., and Schur, assignors.)

Brown, Earl G., Oakland, Calif. Metallic spreader for wood forms. 1,683,446; Sept. 4.

Brown, George A., St. Paul, Minn. Oil-dispensing apparatus. 1,683,021; Sept. 4.

Brown, Herbert D., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 1,683,156; Sept. 4.

Brown, Theodore P., et al., trustees. (See Tunstall, William B., assignor.)

Brown, Walter W., Erie, Pa., assignor to General Electric Company. Controller handle. 1,683,157; Sept. 4.

Browning, Raymond E. (See Cocks, S. J., and Browning.)

Brickel, Waldemar, Berlin, Germany, assignor to General Electric Company. Synchronizing apparatus. 1,683,158; Sept. 4.

Brunkow, Almon T., Duluth, Kans. Extracting tool. 1,682,954; Sept. 4.

Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)

Bryan, George H. (See Bullock, E. W., and Bryan.)

Buchanan, Stephen N., New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connecter. 1,682,738; Sept. 4.

Buchner, Max, Hanover-Kleefeld, Germany, assignor to A. F. Meyerhofen, Zurich, Switzerland. Production of soluble salts of organic compounds possessing acid character. 1,683,159; Sept. 4.

Buckle, Horace L. T., Iver Heath, England, assignor to Victor Talking Machine Company, Camden, N. J., Talking machine. 1,683,160; Sept. 4.

Buckley, Ernest P., New York, N. Y., assignor, by mesne assignments, to Permex Corporation of America. Valve mechanism. 1,683,523; Sept. 4.

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Budd Wheel Company. (See Nelson, Emil A., assignor.)

Buffalo Pressed Steel Company. (See MacKenzie, R. J., and Haas, assignors.)

Bühring, Kurt. (See Tengström, H., and Bühring.)

Bulbeck, George, London, England. Demountable hut. 1,683,022; Sept. 4.

Bullock, Edward W., and G. H. Bryan, assignors to Gleason Works, Rochester, N. Y. Indexing mechanism. 1,683,524; Sept. 4.

Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 76,277; Sept. 4.

Burandt, Gustav A., and A. W. Nordgren, assignors to Marquette Manufacturing Company, St. Paul, Minn. Accessory merchandiser. 1,683,525; Sept. 4.

Burdick Corporation, The. (See Lavoisier, Ian J., assignor.)

Burgess, William A. A., Monkseaton, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Starting and synchronizing of alternating-current dynamo-electric machines. 1,683,284; Sept. 4.

Burkett, Obert W., Dallas, Tex. Hosiery. Des. 76,228; Sept. 4.

Burn, Jessie R., San Antonio, Tex. Card-table-cover clamp. Des. 76,229; Sept. 4.

Burrall, Fred E., assignor to McIntyre-Burrall Company, Green Bay, Wis. Harness buckle. Des. 76,230; Sept. 4.

Burroughs Adding Machine Company. (See Muller, Robert L., assignor.)

Burrowes, E. T., Company, The. (See Fields, Harry R., assignor.)

Busby, Ralph B., and L. B. Samanski, Oakland, Calif. Automobile cleaning system. 1,682,830; Sept. 4.

Bush, Harry K., Pottstown, Pa., assignor to Reading Foundry and Supply Co. Water cooler. 1,683,381; Sept. 4.

Butler, Fannie M., Hinsdale, Ill. Apparatus for storing dishes. 1,682,885; Sept. 4.

Butler, John E., Hoosick Falls, N. Y. Separable button. 1,682,771; Sept. 4.

Butterick, Naason Z., Miami, Fla. Composition roofing shingle. 1,683,285; Sept. 4.

Byles, Frank A., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,683,161; Sept. 4.

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Morgan, assignors.)

C-S Engineering Company. (See Casey, W. F. J., and Cavin, assignors.)

Cagan, Samuel, and W. S. Nead, Stillwater, Minn. Garment collar. 1,682,831; Sept. 4.

Cahill, John, Norfolk, Va. Sliding swing door. 1,682,772; Sept. 4.

Caldwell, Frank E., North Mankato, Minn. Weather strip. 1,683,162; Sept. 4.

California Cotton Mills Company. (See Mitchell, Allister S., assignor.)

Campbell, C. H. (See Carpenter, William A., assignor.)

Campbell, Wyatt R., New Castle, Pa. Flower-displaying device for coffin lids. 1,683,526; Sept. 4.

Campus, Cesare C., Santa Monica, Calif. Water-closet fitting. 1,683,063; Sept. 4.

Candee, L., & Co. (See Anderson, R. G., and Gaines, assignors.)

Capicotto, James V., Brooklyn, N. Y., assignor to Dubilier Condenser Corporation. Electric conductor and making same. 1,683,064; Sept. 4.

Caprin, Ilario, San Francisco, Calif. Heater. 1,683,527; Sept. 4.

Cardoza, Antone J., Oakland, Calif. Temporary binder. 1,683,238; Sept. 4.

Carlton, Jack C., assignor to The Carlton Machine Tool Company, Cincinnati, Ohio. Clutch mechanism for reversing gear. 1,683,528; Sept. 4.

Carlton Machine Tool Company, The. (See Carlton, Jack C., assignor.)

Carpenter, William A., assignor of one-half to C. H. Campbell, Hartsville, S. C. Pressure mechanism for roll stands. 1,683,583; Sept. 4.

Carpenter, William J., and F. Shanley, Chicago, Ill. Plumb rule. 1,683,065; Sept. 4.

Carr, Edward G., Shorewood, Wis., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Concrete-road machine. 1,683,382; Sept. 4.

Carrom Company, The. (See Haskell, Henry L., assignor.)

Carson, Lamoine S. (See Barbour, C. W., and Carson.)

Casey, William F. J., and G. Cavin, Kingston, Ontario, Canda, assignors, by mesne assignments, to C-S Engineering Company. Locomotive booster device. 1,683,286; Sept. 4.

Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,682,773; Sept. 4.

Cavin, Gustave. (See Casey, W. F. J., and Cavin.)

Central Ohio Steel Products Company. (See Biszantz, Fred, assignor.)

Central Scientific Company. (See Klopsteg, Paul E., assignor.)

Chain Belt Company. (See Shafer, Samuel, jr., assignor.)

Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Fexible tube support. 1,683,023; Sept. 4.

Chapel, George L., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Closure for radiators and the like. 1,683,383; Sept. 4.

Charushin, Vladimir. (See Gough, A. C., and Charushin.)

Chemical Machinery Corporation. (See Short, Frank, assignor.)

Chemicolor Wood Preserving Co. (See Lamm, James E., assignor.)

Chemicolor Wood Preserving Co. (See Renner, Herbert, assignor.)

Chemische Fabrik auf Actien (vorm. E. Schering). (See Schoeller, W., and Allardt assignors.)

Cherry, Oscar A. (See Laymand, F. E., Richardson, and Cherry.)

Chicago Cardboard Company. (See Ziemmerman, Henry, assignor.)

Chicago Flexible Shaft Company. (See Kocourek, Henry, assignor.)

Chicago Pneumatic Tool Company. (See Moody, J. C., and Hoffman, assignors.)

Chicago Pneumatic Tool Company. (See Ochs, C., and Hildebrand, assignors.)

Chicago Pneumatic Tool Company. (See Wasson, H. C., and Collins, assignors.)

Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Steering wheel. 1,683,329; Sept. 4.

Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,683,330; Sept. 4.

Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,683,331; Sept. 4.

Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,683,332; Sept. 4.

Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,683,333; Sept. 4.

Chilton Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,683,334; Sept. 4.

Christman, Peter J., assignor to Paper Converting Machine Co., Inc., Green Bay, Wis. Napkin fold. 1,683,335; Sept. 4.

Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition apparatus. 1,683,239; Sept. 4.

Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)

Cincinnati Victor Company, The. (See Ryder, Charles D., assignor.)

Clark, Benjamin S. (See Baldwin, Leon F. N., assignor.)

Clay, Marshall F., Canton, Ohio. Window ventilator. 1,682,739; Sept. 4.

Cleveland Heater Company, The. (See Doen Loran F., assignor.)

Cleveland Trust Company, The, executor. (See Plantinga, Pierre.)
Climer, Quinby, assignor of one-half to C. M. Haynes, Chillicothe, Ohio. Bean-snipping machine. 1,683,024; Sept. 4.
Clutter, Bird C., Akron, Ohio, assignor, by mesne assignments, to Clutter-Wagner, Inc. Excavator. 1,682,774; Sept. 4.
Clutter-Wagner, Inc. (See Clutter, Bird C., assignor.)
Coburn, William H. and C. Kiernan, assignors of one-third to E. H. Gilbert, Morgantown, W. Va. Electric-power truck. 1,683,287; Sept. 4.
Cocks, Sidney J., and R. E. Browning, Vancouver, British Columbia, Canada. Piston ring. 1,682,886; Sept. 4.
Cohelan, Daniel, San Francisco, Calif. Automobile battery. 1,683,529; Sept. 4.
Cohen, Samuel, Brooklyn, assignor to G. A. Barron, New York, N. Y. Electrical connecter. 1,683,066; Sept. 4.
Cohn, Henry, Charlottenburg, near Berlin, assignor to the firm Dr. Erich F. Huth Ges. m. b. H., Berlin, Germany. Thermionic tube. 1,682,775; Sept. 4.
Cohn, Irwin, assignor to Irwin & Company, Inc., New York, N. Y. Doll. 1,682,832; Sept. 4.
Coleman, William W., New York, N. Y. Rail brace. 1,682,887; Sept. 4.
Collins, Lester L. (See Wasson, H. C., and Collins.
Colt, Samuel S., Orange, N. J. Retaining means for concrete forms. 1,682,740.
Colvin, Benjamin F., Fremont, Ohio. Child's vehicle. 1,683,240; Sept. 4.
Cone Gearing Corporation. (See Cone, Samuel I., assignor.)
Cone, Samuel I., Portsmouth, assignor to Cone Gearing Corporation, Norfolk, Va. Precision worm gearing. 1,683,163; Sept. 4.
Conger, Claude M., Kansas City, Kans., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Visible index. 1,683,447; Sept. 4.
Conradson, Conrad M., Madison, Wis., assignor to Joseph T. Ryerson and Son, Chicago, Ill. Selective geared head lathe. 1,683,448; Sept. 4.
Consolidated Steel Strapping Company. (See Swenson, Carl O., assignor.)
Continental Motors Corporation. (See Niven, Archie M., assignor.)
Conway, Carle C., et al., trustees. (See Tunstall, William B., assignor.)
Conway, Earle E., et al., trustees. (See Tunstall, William B., assignor.)
Conwell Graphic Company. (See Hornecker, George, assignor.)
Copeland, Arch G., Rich Hill, assignor of one-half to F. V. Reagel, Jefferson City, Mo. Drilling machine. 1,682,955; Sept. 4.
Corbin, Henry P. (See Bechtelheimer, H. A., and Corbin.)
Corning Glass Works. (See Lebby, States L., assignor.)
Cosby, Eric L. H., Teddington, England. Brush. 1,683,530; Sept. 4.
Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,683,164; Sept. 4.
Coulombe, Joseph C., Kokomo, Ind. Starter drive for internal-combustion engines. 1,683,165; Sept. 4.
Coulombe, Joseph C., Kokomo, Ind. Carburetor. 1,683,576; Sept. 4.
Crabb, Silas F., assignor to J. M. Selden, Pittsburgh, Pa. Circulating system for steam generators. 1,682,776; Sept. 4.
Craig, William A., Philadelphia, Pa. Power reverse gear for locomotives. 1,682,888; Sept. 4.
Crankless Engines Limited. (See Michell, Anthony G. M., assignor.)
Creed & Company Limited. (See Creed, Frederick G., assignor.)
Creed, Frederick G., assignor to himself and Creed & Company Limited, Croydon, England. Clutch mechanism, specially suitable for use in telegraphic apparatus. 1,682,889; Sept. 4.
Cremean, William F., Toledo, Ohio. Dustguard. 1,683,449; Sept. 4.
Crerar, Adams & Co. (See Rostron, Robert, assignor.)
Creswell, Clifford A. (See Kniseley, H. M., Creswell, and Messer.)
Creveling, John L., Oracle, Ariz., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating means. 1,682,890; Sept. 4.
Crockett, William P., Chicago, Ill. Electromagnetic device. 1,683,450; Sept. 4.
Crompton & Knowles Loom Works. (See Giles, John W., assignor.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
Crompton & Knowles Loom Works. (See Wattie, William M., assignor.)
Crossby, William E. J., Harrow, and J. Mellor, assignors to Packs (1925) Limited, Feltham, England. Receptacle. 1,683,166; Sept. 4.
Crossley, Alfred. (See Mirick, C. B., and Crossley.)
Crown Cork & Seal Company. (See Huntley, George J., assignor.)
Cummings, Thomas P., Chicago, Ill. Plumbing device. 1,683,336; Sept. 4.
Cunningham, Sylvester, Evansville, Ind. Expanding mandrel. 1,683,167; Sept. 4.
Cutler-Hammer Mfg. Co., The. (See Layman, F. E., and Richardson, assignors.)
Cutler-Hammer Mfg. Co. (See Layman, F. E., Richardson, and Cherry, assignors.)
Cutler-Hammer Mfg. Co., The. (See Richardson, Linwood T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)
Cutler, Peirce, Burlingame, assignor to E. J. Judge, Alameda, Calif. Filling container with preserving, flavoring, and condiment liquids. 1,683,241; Sept. 4.
Dake, Charles W., Chicago, Ill. Fire extinguisher. 1,682,833; Sept. 4.
Dallan, Roy M., Fort Dodge, Iowa. Liner block for cement sewer pipes. 1,683,025; Sept. 4.
Dambach, Edward, Co., The. (See Dambach, Ralph A., assignor.)
Dambach, Ralph A., assignor to The Edward Dambach Co., Evans City, Pa. Adjustable mantel shelf. 1,683,168; Sept. 4.
Damon, John H., assignor to Plymouth Cordage Company, Plymouth, Mass. Twine package and its manufacture. 1,682,777; Sept. 4.
Darr, Earl A., et al., executors. (See Kraft, Henry P.)
Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Valve. 1,682,891; Sept. 4.
Davis, Thomas M., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Selective signaling system. 1,683,127; Sept. 4.
Dawson, Vernon B., and I. B. Penton, Wilmington, Del. Gripping and pulling implement. 1,682,956; Sept. 4.
Dearing, Edmund R., Birmingham, Ala. Metal plug for pipe joints. 1,682,741; Sept. 4.
Deca Disc Phonograph Company. (See Bodwell, P. D., and Bellows, assignors.)
Deca Disc Phonograph Company. (See Kauffman, Wilbur K., assignor.)
Decker, George, assignor to Realistic Hair Waving Machine Co., Cleveland, Ohio. Hair-waving outfit. 1,683,531; Sept. 4.
Dedrick, Charles H., Drexel Hill, Pa., assignor to Philadelphia Quartz Company. Manufacturing straw pulp and paper. 1,682,834; Sept. 4.
De Forest, Lee, assignor to De Forest Phonofilm Corporation, New York, N. Y. Sound recording and reproducing apparatus. 1,683,451; Sept. 4.
De Forest Phonofilm Corporation. (See de Forest, Lee, assignor.)
De Goll, Louis, Paris, France. Lighter. 1,682,892; Sept. 4.
Deister, Emil, jr., Fort Wayne, Ind. Score device. 1,683,242; Sept. 4.
De la Cierva, Juan, Madrid, Spain. Aircraft with rotative wings. 1,682,893; Sept. 4.
De la Cierva, Juan, Madrid, Spain. Undercarriage or landing gear for aircraft. 1,682,894; Sept. 4.
Delco-Remy Corporation. (See Arthur, James L., assignor.)
Delco-Remy Corporation. (See Chryst, William A., assignor.)
Delco-Remy Corporation. (See Poole, Lora E., assignor.)
Denny, H. C. (See Hughes, Charles H., assignor.)
De Noya, Everett A., Pawhuska, Okla. Golf-bag holder. 1,683,169; Sept. 4.
Derwish, Emen, Fertle, Minn. Folding chair. 1,683,532; Sept. 4.
De Vleg, Gerard A., Rockford, Ill. Tool-spindle fixture. 1,682,835; Sept. 4.
De Witt, Clarence N. (See Gardner, William H., assignor.)
Di Carlo, Donato, Philadelphia, Pa. Lamp. 1,683,170; Sept. 4.
Dick Company, A. B. (See Brasseur, Ernest J., assignor.)
Dickey, Robert T., Del Rio, Tex. Automatic float valve. 1,683,171; Sept. 4.
Diescher, Samuel E., Wilkinsburg, Pa. Gas burner. 1,683,128; Sept. 4.
Dillon, John M., Hutton, La. Shaft coupling. 1,682,895; Sept. 4.
Dilts Machine Works Incorporated. (See Haskell, John D., assignor.)
Directoplate Corporation. (See Koppe, Alexander T., assignor.)
Doane, Leroy C. (See Lucklesh, M., Doane, and Miller.)
Doen, Loran F., assignor to The Cleveland Heater Company, Cleveland, Ohio. Thermostatic valve. 1,683,172; Sept. 4.
Doerschuk, Victor C., Massena, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa. Carbon electrode and molding the same. 1,683,587; Sept. 4
Doetsch & Bauer Company. (See Bauer, Carl, assignor.)
Donovan, John W., Sunburst, Mont. Card game. 1,683,026; Sept. 4.
Dorogi és Tása Gummigyár R. T., Dr. (See Dorogi, István and L., assignors.)
Dorogi, István and L., Budapest, assignors to Dr. Dorogi É. S. Társa Gummigyár R. T., Budapest-Albertfalva, Hungary. Closure means for inflatable hollow rubber bodies. 1,682,836; Sept. 4.
Dorogi, Lajos. (See Dorogi, István and L.)

Dräger, Alexander B. (See Schröder, Hans, W. C., assignor.)
Dräger, Elfriede, executrix. (See Schröder, Hans W. C.)
Draper Corporation. (See Malloy, James T., assignor.)
Drost, Thomas, assignor to H. Wagner and Adler Co., New York, N. Y. Cue rack or the like. 1,683,533; Sept. 4.
Drying Systems, Inc. (See Sauvage, Herbert J., assignor.)
Dubilier Condenser Corporation. (See Capicotto James V., assignor.)
Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
Dubilier Condenser Corporation. (See Van Deventer, Harry R., assignor.)
Dubilier Condenser Corporation. (See Vawter, Charles E., assignor.)
Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. Grid-leak resistance. 1,683,067; Sept. 4.
Duncan, William M., Alton, Ill. Disintegrator. 1,683,244; Sept. 4.
Dunham Company, The. (See Dunham, Ray E., assignor.)
Dunham, Ray E., assignor to The Dunham Company, Berea, Ohio. Tillage implement. 1,682,896; Sept. 4.
Dura Company, The. (See Hanson, Miles G., assignor.)
Durham, Joseph E., jr., and D. Hume, assignors to Bonney Forge & Tool Works, Allentown, Pa. Wrench-handle attachment. 1,683,384; Sept. 4.
Durkee-Atwood Company. (See Nielsen, Lauritz F., assignor.)
Eagle Manufacturing Company, The. (See Paull, J., and Miller, assignors.)
Eagle Pencil Company. (See Boman, C. W., and Kaiser, assignors.)
Earnshaw Knitting Company. (See Stockbower, Mabel Y., assignor.)
Eastern Machine Screw Corporation, The. (See Williamson, Edwin O., assignor.)
Eastman Kodak Company. (See Gray, H. L., and Staud, assignors.)
Eastman Kodak Company. (See Reynolds, Frank H., assignor.)
Eastman Kodak Company. (See Riddell, William A., assignor.)
Eastman Kodak Company. (See Stinchfield, Ray L., assignor.)
Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
Edelman, Philip E., Chicago, Ill. Radiochassis. 1,682,778; Sept. 4.
Edelmann, E., & Co. (See Edelmann, Leo, assignor.)
Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. Hydrometer. 1,683,452; Sept. 4.
Edison Electric Appliance Company. (See Simmons, Albert H., assignor.)
Edwin, Emil, assignor to Aktieselskapet Norsk Staal Elektrisk-Gas-Reduktion, Trondhjem, Norway. Using high-tension electric acrs for treatment of gases. 1,683,534; Sept. 4.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for cracking oil. 1,682,742; Sept. 4.
Egloff, Gustav, Independence, Kans., assignor to Universal Oil Products Company, Chicago, Ill. Halogen treatment of oil shale. 1,682,743; Sept. 4.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating petroleum oil. 1,682,744; Sept. 4.
Ehnborn, Clemens E., Chicago, Ill. Window seat. 1,683,027; Sept. 4.
Electric Vacuum Cleaner Company. (See Lang, Henry T., assignor.)
Elektrizitäts-Gesellschaft "Sanitas" m. b. H. (See Pfeiffer, Adolf, assignor.)
Eley, Forrest W., Newark, Ohio, assignor, by mesne assignments, to Anglo-California Trust Company. Improving mineral oils. 1,683,288; Sept. 4.
Elkington, Vivian, St. Margarets Bay, England. Apparatus for supplying a current of heated air or gas. 1,683,028; Sept. 4.
Ellis, Carleton, Montclair, N. J. Soluble and fusible white acetone resin and making same. 1,683,535; Sept. 4.
Elto Outboard Motor Company. (See Evinrude, Ole, assignor.)
Embossing Company, The. (See Graham, Tom C., assignor.)
Emerson, John C. (See Page, N. L. B., and Emerson.)
Engel, Albert W., Chicago, Ill. Easel. 1,682,837; Sept. 4.
Engler, Walter N. (See Mobius, C. E., and Engler.)
Erie Malleable Iron Company. (See Selah, Howard A., assignor.)
Ernest, William, Martinez, and E. H. Baer, Associated, Calif. Barrel-filling apparatus. 1,683,337; Sept. 4.
Ervin, George B., Weston, W. Va. Temporary well capper. 1,683,173; Sept. 4.
Evinrude, Ole, assignor to Elto Outboard Motor Company, Milwaukee, Wis. Tank closure. 1,683,338; Sept. 4.
Eyrish, Carl, Gig Harbor, Wash. Saw-setting anvil and gnuge. 1,683,174; Sept. 4.
Fagley, Harold L. (See Grothe, Verner G. H., assignor.)
Fallor, Charles W., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,682,747; Sept. 4.
Falcke, Emil, and K. Lehmann, Berlin, Germany, assignors to General Electric Company. System of control. 1,683,175; Sept. 4.
Fanger, Nathan, New York, N. Y. Wheeled carrying case. 1,683,029; Sept. 4.
Fantum Mirror, Inc. (See Ruckelhaus, John G., assignor)
Farbenfabriken vorm. Friedr. Bayer and Co. (See Meckbach, Ernst, assignor.)
Farr, Burt J., and M. H. Westbrook, Battle Creek, Mich. Machine for reboring or refinishing cylinders. 1,683,339; Sept. 4.
Farrell, Frederick W., assignor to McLaurin-Jones Co., Brookfield, Mass. Coated paper. 1,683,453; Sept. 4.
Faulhaber, Jacob, Siershahn im Westerwald, Germany. Catch drop for bottles. 1,683,176; Sept. 4.
Fayer, Charles, Flushing, and F. H. Wappler, Elmhurst assignors to Wappler Electric Company, Inc., Long Island City, N. Y. Rectifying transformer. 1,682,748; Sept. 4.
Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator core. 1,683,340; Sept. 4.
Fedders Manufacturing Company. (See Fedders, John M., assignor.)
Federal Telegraph Company. (See Koister, Frederick A., assignor.)
Feigelman, Herman A., Paterson, N. J. Pluricelled container. 1,682,838; Sept. 4.
Fenaux, Fernand, assignor to Societe Anonyme Chantiers & Ateliers Augustin Normand, Le Havre, France. Mine recess of mine-planting submarines. 1,683,177; Sept. 4.
Ferguson, James E., Cleveland, and H. L. Mooney, East Cleveland, assignors to The Lake Lithograph Company, Cleveland, Ohio. Display device for tires and the like. 1,682,745; Sept. 4.
Ferree, Marvin, New York, N. Y., and J. Wissmar, Cleveland, Ohio, assignors to Picture Transmission Corporation, New York, N. Y. Governor for electric motors. 1,683,536; Sept. 4.
Fesler, Douglas F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Filter element. 1,682,897; Sept. 4.
Fesler, Douglas F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating system. 1,682,898; Sept. 4.
Fetter, William, Baltimore, Md. Self-healing inner tube. 1,683,454; Sept. 4.
Fields, Harry R., Orlando, Fla., assignor to The E. T. Burrowes Company, Portland, Me. Characterized check protector. 1,682,779; Sept. 4.
Filtrators Company. (See Sanftleben, Joseph F., assignor.)
Finn, Louis J., Peoria, Ill., and P. E. Morrill, assignors to Bemis Bro. Bag Company, St. Louis, Mo. End closure for paper bags. 1,682,839; Sept. 4.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,682,780; Sept. 4.
Finnessy, James E., Pittsburgh, Pa. Train retarder. 1,682,746; Sept. 4.
Fisher, Charles. (See Thompson, R. J., and Fisher.)
Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
Fisk Rubber Company, The. (See Weisse, Hugo C., assignor.)
Fletcher, Joseph H., Los Angeles, Calif. Resilient wheel. 1,682,899; Sept. 4.
Floss, Carl W. (See Berry, Henry J., assignor.)
Foerch, John W., jr., Wilkes-Barre, Pa. Gutter joint. 1,682,840; Sept. 4.
Folmar, Robert L., Goshen, Ala. Vault. 1,683,537; Sept. 4.
Foresman, Robert A., Moore, and J. E. Larrabee, East Lansdowne, Pa., assignors to Westinghouse Electric & Manufacturing Company. Stoker. 1,683,341; Sept. 4.
Forrest, Thomas W. W., assignor to Sunland Sales Cooperative Association, Fresno, Calif. Treating dried figs and dried prunes. 1,683,068; Sept. 4.
Foster, Guy T., Dayton, Ohio, assignor to L. Thompson, New York, N. Y. Locomotive structure. 1,683,455; Sept. 4.
Foster, Isaac M., et al. (See Mulligan, Paul C., assignor.)
Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for surfacing plate glass. 1,683,342; Sept. 4.
Francois, Clifford J., sr., assignor of one-half to J. H. Hass, sr., McDonoghville, La. Single-service brush. 1,683,538; Sept. 4.
Frederickson, Otto A., Wethersfield, assignor to The Wire Mold Company, Hartford, Conn. Circular loom. 1,683,385; Sept. 4.
Freed, Horace. (See Weyler, F. P. A., and Freed.)
Frick, Frank E., Flushing, N. Y. Hot-tool rotary cutter. 1,682,900; Sept. 4.
Friden, Carl M. F., Oakland, Calif. Reversing mechanism. 1,682,901; Sept. 4.
Früh, Conrad J., Zurich, Switzerland. Process of and apparatus for cleaning textile goods. 1,682,841; Sept. 4.

Frost, Clinton, E., Chippewa Lake, assignor to The Speciality Manufacturing Company, Cleveland, Ohio. Brush. 1,683,456; Sept. 4.

Funk, Arthur S. (See Bott, E. S., and Funk.)

Fyrac Manufacturing Co. (See Aldeen, Gedor W., assignor.)

Gagné, Augustine, Central Falls, assignor to Hemphill Company, Providence, R. I. Stripping attachment for knitting machines. 1,683,540; Sept. 4.

Gaines, John. (See Anderson, R. G., and Gaines.)

Galsman, Henry J., New York, and C. Schumacher, Lynnbrook, N. Y., assignors to Autostrop Patents Corporation, Dover, Del. Metal-tempering apparatus. 1,683,129; Sept. 4.

Gallagher, Alfred H., Chicago, Ill. Stabilizer and plaster composition containing the same. 1,683,539; Sept. 4.

Gammell-Hanney Mfg. Co. (See Hanney, Angus F., assignor.)

Gardner, John J., New York, N. Y. Motor-vehicle control system. 1,682,781; Sept. 4.

Gardner, William H., assignor of one-fourth to C. N. De Witt, Los Angeles, Calif. Collodion coating composition. 1,682,957; Sept. 4.

Gartner, John H., San Francisco, Calif., assignor of one-fifth to P. S. Higgins, one-fifth to J. D. Skelly, and one-fifth to W. Shackleton. Tire-pressure indicator. 1,683,343; Sept. 4.

Gebhard, Louis A., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric crystal-controlled oscillator. 1,683,130; Sept. 4.

Geddes, David, Berkley, Calif. Feed regulator. 1,682,958; Sept. 4.

Geigy, J. R., S. A. (See Lacuger, Paul, assignor.)

Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,683,386; Sept. 4.

General Electric Company. (See Anderson, Arvid E., assignor.)

General Electric Company. (See Baker, Walter R. G., assignor.)

General Electric Company. (See Biermanns, Josef, assignor.)

General Electric Company. (See Brown, Herbert D., assignor.)

General Electric Company. (See Brown, Walter W., assignor.)

General Electric Company. (See Brückel, Waldemar, assignor.)

General Electric Company. (See Byles, Frank A. assignor.)

General Electric Company. (See Falcke, E., and Lehmann, assignors.)

General Electric Company. (See Hall, Chester I., assignor.)

General Electric Company. (See Heisler, Charles L., assignor.)

General Electric Company. (See Hull, Albert W., assignor.)

General Electric Company. (See Kearsley, William K., assignor.)

General Electric Company. (See Kearsley, William K., jr., assignor.)

General Electric Company. (See Kempton, Leslie A., assignor.)

General Electric Company. (See Macloskie, G., and Ives, assignors.)

General Electric Company. (See Runner, Claude C., assignor.)

General Electric Company. (See Tengström, H., and Bühring, assignors.)

General Electric Company. (See Thomson, Elihu, assignor.)

General Electric Company. (See Weber, Louis J., assignor.)

General Electric Company. (See Wilson, C. E., and Huenerkopf, assignors.)

General Motors Corporation. (See Jack, Robert K., assignor.)

General Motors Corporation. (See Scese, John E., assignor.)

General Motors Corporation. (See Tenney, Perry L., assignor.)

General Motors Research Corporation. (See Astre, Horace W., assignor.)

General Motors Research Corporation. (See Hughes, Victor, assignor.)

General Motors Research Corporation. (See Hunt, John H., assignor.)

General Motors Research Corporation. (See Short, C. R., and Hughes, assignors.)

General Motors Research Corporation. (See Short, Charles R., assignor.)

General Motors Research Corporation. (See Summers, Caleb E., assignor.)

General Tire & Rubber Company, The. (See Jahant, Charles J., assignor.)

Geometric Tool Co., The. (See Breitenstein, Albert F., assignor.)

George, Ross F., Seattle, Wash. Pen clamp and reservoir. 1,683,030; Sept. 4.

Germond, Henry S., jr., Bayonne, N. J., and H. Green, Yonkers, N. Y., assignors to said Green. Portable elevator. 1,683,457; Sept. 4.

Gesellschaft für Drahtlose Telegraphie m. b. H. (See Osnos, Mendel, assignor.)

Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Steering wheel. 1,683,344; Sept. 4.

Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Ice-cream-cabinet lid and manufacturing the same. 1,683,345; Sept. 4.

Gibbs, William E., East Orange, N. J. Cone speaker. 1,683,178; Sept. 4.

Gibson, Helen M., et al. (See Gibson, Howard S., assignor.)

Gibson, Howard S., assignor of one-fourth to D. F. Asbury and three-fourths to H. M. Gibson, Washington, D. C. Vehicle washing machine. 1,682,902; Sept. 4.

Gibson, Stephen A., Hereford, Ariz. Motor vehicle. 1,682,782; Sept. 4.

Gilbert, Ernest H. (See Coburn, W. H., and Kiernan, assignors.)

Giles, John W., Greer, S. C., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Reversible loom lobby knife. 1,683,179; Sept. 4.

Gillett, Harry. (See Loucks, James F., assignor.)

Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,682,749; Sept. 4.

Ginter, Paul A., assignor to The American Bottle Company, Toledo, Ohio. Bottle. Des. 76,231; Sept. 4.

Ginter, Paul A., assignor to The American Bottle Company, Toledo, Ohio. Bottle. Des. 76,232; Sept. 4.

Gits, Remi J., Riverside, Ill. Metal molding. 1,683,346; Sept. 4.

Glair, Harry F., and O. E. Brausky, assignors to Standard Oil Company, Whiting, Ind. Refining oil. 1,683,289; Sept. 4.

Gleason Works. (See Bullock, E. W., and Bryan, assignors.)

Glover, William B., and W. H. Richardson, Subiaco, near Perth, Western Australia, Australia. Spring buffer for motor vehicles. 1,683,541; Sept. 4.

Golden, Louis J., assignor to R. & H. Shoe Company, Chicago, Ill. Baby shoes. Des. 76,233; Sept. 4.

Goldberg, Solomon H. (See Willi, Frederick D., assignor.)

Golfada Company, The. (See Walker, Norman S., assignor.)

Golightly, William J., Kokomo, Ind., assignor to Pittsburgh Plate Glass Company. Apparatus for forming and handling clay pots. 1,683,245; Sept. 4.

Goodman, Henry. (See Remmers, Harry C., assignor.)

Goodrich, B. F., Company, The. (See Annis, Burton B., assignor.)

Goodrich, B. F., Company. (See Waner, Harry E., assignor.)

Gordon, Lawrence E., assignor to Virginia Table Company, Incorporated, Marion, Va. Chair back or similar article. Des. 76,234; Sept. 4.

Gottlieb, Leo R. (See Hatcher, Josh, assignor.)

Goudey Gum Company, The. (See Peterson, Erland F., assignors, by mesne assignments, to Shaw Crane-Putnam Machine Company, Inc. Quartering and thirding attachment. 1,683,290; Sept. 4.

Gough, Arthur C., and V. Charnshin, Fitchburg, Mass., Graham, Tom C., assignor to The Embossing Company, Albany, N. Y. Domino. Des. 76,235; Sept. 4.

Grant, Richard F., et al. (See Wetherbee, Herbert E., assignor.)

Gray, Harry L., and C. J. Staud, assignors to Eastman Kodak Company, Rochester, N. Y. Making chloroform-soluble cellulose acetate. 1,683,347; Sept. 4.

Grayson, Lloyd, Grafton, W. Va. Thermal-circuit closer. 1,682,959; Sept. 4.

Green, Harold. (See Germond, H. S., jr., and Green.)

Greene, J. Oldham. (See Turner, Howard B., assignor.)

Greenhouse, Samuel, Akron, Ohio. Float-controlled valve. 1,683,180; Sept. 4.

Greenwood, George W., Wilmington, Del., assignor to Stephen F. Whitman & Son, Inc., Philadelphia, Pa. Candy package. 1,683,542; Sept. 4.

Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Bottle nipple. 1,683,246; Sept. 4.

Grothe, Verner G. H., assignor to H. L. Fagley, St. Paul, Minn. Screed support. 1,683,247; Sept. 4.

Grotnes, Charles G., Chicago, Ill. Barrel-making machine. 1,683,248; Sept. 4.

Groves, John D., Milltown, assignor of one-third to L. R. Groves, East Millinocket, Me. Automatic box lock for drop-box looms. 1,683,543; Sept. 4.

Groves, Lemuel R. (See Groves, John D., assignor.)

Gruenfeldt, Emil, assignor to The Rail Welding and Bonding Company, Cleveland, Ohio. Fishplate for railway rails. 1,682,960; Sept. 4.

Gsell, Eugène, assignor to Wallace & Co., Brooklyn, N. Y. Box. Des. 76,236; Sept. 4.

Gulbenkian Seamless Rug Company. (See Smith, William E., assignor.)

Gunderman, Lester S., Pittsburgh, Pa. Toy. 1,683,131; Sept. 4.

Gunn, Earl G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle brake. 1,682,783; Sept. 4.

Guth, Edwin F., Company, The. (See Owen, Raymond V., assignor.)

Guyton & Cumfer Mfg. Co. (See McFarland, Owen D., assignor.)

Gythfeldt, Trygve, Stjordalen, Norway. Dental drilling apparatus. 1,682,784; Sept. 4.

Haas, John H., sr. (See Francois, Clifford J., sr., assignor.)

Haas, Lucien L. (See MacKenzie, R. J., and Haas.)

Hackney Brothers, Inc. (See Berthel, Charles J., assignor.)

Hadaway, William S., jr., New Rochelle, N. Y. Steam press for clothes. 1,682,903; Sept. 4.

Haldeman, Walter S., Chicago, Ill., assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio. Concrete-floor mold. 1,682,750; Sept. 4.

Hall, Charles S., Oakland, Calif. Pressure, temperature, and volume indicating and controlling means for aircraft. 1,682,961; Sept. 4.

Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Electric switch. 1,683,132; Sept. 4.

Hall Draft Gear Corporation. (See Sherman, C. W., and Hall, assignors.)

Hall, Harry G., Williams, Ariz. Cleaning device for false teeth. 1,683,458; Sept. 4.

Hall, Joseph M. (See Sherman, C. W., and Hall.)

Hallerman, Frank W. A., St. Louis, Mo., assignor to National Lead Company, Jersey City, N. J. Method and apparatus for applying coating to the inside of paint buckets. 1,682,751; Sept. 4.

Halliwell, John J., Tuckahoe, assignor to R. Hoe & Co., Inc., New York, N. Y. Late-news and color printing mechanism. 1,683,133; Sept. 4.

Hamann, Fred, et al. (See Jackson, Merlin M., assignor.)

Hamer, James H., Bolton, assignor to James L. Rushton, Bolton, Lancashire, England. Rotary pump and the like. 1,682,842; Sept. 4.

Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Electric lantern. 1,683,348; Sept. 4.

Hammer, Charles, Hollis Court Boulevard, assignor to American Metal Cap Company, Brooklyn, N. Y. Combined cap or closure and liner plate. 1,683,387; Sept. 4.

Hammer, Charles, Hollis Court Boulevard, assignor to American Metal Cap Company, Brooklyn, N. Y. Combined lug cap and liner plate. 1,683,388; Sept. 4.

Hanau, Rudolph L., Buffalo, N. Y. Dental manikin. 1,682,904; Sept. 4.

Handy, Levin G., Mountain View, N. J., assignor, by mesne assignments, to Voices Incorporated, Wilmington, Del. Voice device. 1,682,962; Sept. 4.

Hanks, Marshall W., and M. Mason, Madison, Wis., assignors to Hankscraft Company. Liquid-conductor heater device. 1,683,069; Sept. 4.

Hanks, Marshall W., Madison, Wis. Liquid-conductor heater and operating same. 1,683,070; Sept. 4.

Hanks, Marshall W., and M. Mason, Madison, Wis., assignors to Hankscraft Company. Liquid-conductor heater and operating same. 1,683,071; Sept. 4.

Hankscraft Company. (See Hanks, M. W., and Mason, assignors.)

Hanna, Howard M., et al. (See Wetherbee, Herbert E., assignor.)

Hanney, Angus F., assignor to Gammell-Hanney Mfg. Co., Chicago, Ill. Sorting machine. 1,683,249; Sept. 4.

Hansen, Christian L., Charles City, Iowa. Sectional pipe, conduit, or culvert unit. 1,683,544; Sept. 4.

Hanson, Harry C., St. Paul, Minn. Coveralls. 1,682,785; Sept. 4.

Hanson, Miles G., assignor to The Dura Company, Toledo, Ohio. Connection between closures and control arms of window regulators. 1,683,459; Sept. 4.

Hardy, L. P., Co. (See Hardy, Wade L., assignor.)

Hardy, Wade L., assignor to L. P. Hardy Co., South Bend, Ind. Mailing and display carton. 1,682,963; Sept. 4.

Harris, Gordon D., Freeport, N. Y., assignor to The Industrial Dryer Corporation, Stamford, Conn. Conditioning coated materials. 1,682,752; Sept. 4.

Harris, Gustav L., St. Louis, Mo. Traffic signal. 1,682,753; Sept. 4.

Harris, Mark, Birmingham, Mich., assignor to American Steel Foundries, Chicago, Ill. Connecter for spring brakes. 1,682,786; Sept. 4.

Harris, Ray A., North Windham, Conn. Article of jewelry. 1,683,545; Sept. 4.

Harris, William O., Oklahoma City, Okla. Oil and gas well sand tester. 1,683,031; Sept. 4.

Harrison, Ellen L., New York, N. Y. Pincushion. Des. 76,237; Sept. 4.

Hartmann, August. (See Otto, G., Hartmann, and Bauriedel.)

Hartway, Harvey M., Highland Park, Mich. Miter box. 1,683,460; Sept. 4.

Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Hand brake for railway cars. 1,683,461; Sept. 4.

Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Antifriction bearing. 1,683,462; Sept. 4.

Haskell, Henry L., assignor to The Carron Company, Ludington, Mich. Folding table. 1,682,754; Sept. 4.

Haskell, John D., assignor to Dilts Machine Works Incorporated, Fulton, N. Y. Beating engine. 1,683,546; Sept. 4.

Hatcher, Josh, assignor of two-thirds to L. R. Gottlieb, Cokedale, Colo. Clothespin bag. 1,683,032; Sept. 4.

Haugh, James G., Bascom, Ohio. Ironing table. 1,683,291; Sept. 4.

Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive-boiler fire box. 1,682,964; Sept. 4.

Hayes Mfg. Co. (See Reichel, Alvin S., assignor.)

Haymaker, Arthur M., Pittsburgh, Pa. Automatic animal trap. 1,683,181; Sept. 4.

Haynes, Charles M. (See Clier, Quinby, assignor.)

Hazeltine Corporation. (See MacDonald, William A., assignor.)

Hazzard, Oliver T., St. Louis, Mo. Brush. Des. 76,238; Sept. 4.

Healey, Albert. (See Klein, P., and Healey.)

Healy, Ellis C., East Orange, N. J., assignor to International Paper Company. Hoisting mechanism. 1,683,463; Sept. 4.

Hebern, Edward H., Oakland, Calif., assignor, by mesne assignments, to International Code Machine Company, Reno Nev. Electric code machine. 1,683,072; Sept. 4.

Hein, George N., San Francisco, Calif. Hypodermic syringe and means for retaining same. 1,683,349; Sept. 4.

Hein, George N., San Francisco, Calif. Lock for hypodermic needles and the like. 1,683,350; Sept. 4.

Heinitz, Woldemar, Chemnitz, Germany. Straight-knitting frame. 1,682,965; Sept. 4.

Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 76,239; Sept. 4.

Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Compressor. 1,683,182; Sept. 4.

Helgeby, Ralph O., assignor to A C Spark Plug Company, Flint, Mich. Speedometer-drive adapter. 1,683,033; Sept. 4.

Heltzel, Francis O., Youngstown, Ohio. Nonskid mat for pneumatic tires. Des. 76,240; Sept. 4.

Heltzel, Joseph W., Warren, Ohio. Grooving plastic material. 1,683,292; Sept. 4.

Hemphill Company. (See Gagne, Augustine, assignor.)

Henderson, James B., Lee, England. Sighting device. 1,683,073; Sept. 4.

Henricks, Harold H., Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Door-operating mechanism. 1,683,464; Sept. 4.

Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric & Manufacturing Company. Shaft bearing. 1,683,351; Sept. 4.

Herr, John, near Lebanon, Ind. Seed harvester. 1,683,183; Sept. 4.

Herthel, Eugene C. (See Isom, E. W., and Herthel.)

Herthel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Apparatus for cracking hydrocarbons. 1,683,184; Sept. 4.

Hewett, Charles A., Colorado, Tex. Game apparatus. 1,683,185; Sept. 4.

Hicks, John N. (See Sevens, C., and Hicks.)

Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag fastener. 1,683,074; Sept. 4.

Higgins, Patrick S., et al. (See Gartner, John H., assignor.)

Hilde, Ole L., Minneapolis, Minn. Traffic signal. Des. 76,241; Sept. 4.

Hildebrand, Bud. (See Ochs, C., and Hildebrand.)

Hill, Earl V., Chicago, Ill. Thermostat control for radiator valves. 1,682,905; Sept. 4.

Hill, William L., Leicester, England. Boot or shoe. 1,683,465; Sept. 4.

Hires Auto Awning Company. (See Hires, Joseph D., assignor.)

Hires, Joseph D., Luxora, assignor to Hires Auto Awning Company, Incorporated, Blytheville, Ark. Sun shield. 1,683,186; Sept. 4.

Hirner, Emil A., Allentown, Pa. Wringer. 1,683,352; Sept. 4.

Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for holding glass plates upon grinding and polishing tables. 1,683,250; Sept. 4.

Hoe, R., & Co. (See Halliwell, John J., assignor.)

Hoffman, Leon F. (See Moody, J. C., and Hoffman.)

Hogan, George F., Chicago, Ill. Envelope. 1,683,584; Sept. 4.

Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Valve mechanism. 1,682,906; Sept. 4.

Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Valve mechanism. 1,682,907; Sept. 4.

Hole, Willis R., Salem, Ohio. Mail-car device. 1,683,547; Sept. 4.

Hollar, William H., jr., Drexel Hill, and W. G. Uhlman, Philadelphia, Pa. Key envelope. 1,682,755; Sept. 4.

Hollenback, George M., Los Angeles, Calif. Paralleling mechanism. 1,683,353; Sept. 4.

Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Adjustable loom reed. 1,683,187; Sept. 4.

Holmes, Robert E. L., assignor to Westco-Chippewa Pump Company, Davenport, Ia. Rotary-pump casing. 1,682,756; Sept. 4.

Honstain, Vernon G., and A. Smithson, Minneapolis, Minn. Grinding-machine attachment. 1,683,354; Sept. 4.

Hopkins, Earnest R., Kansas City, Mo. Weather strip. 1,683,355; Sept. 4.

Hopkins, Robert C., Alliance, Ohio. Oil separator. 1,682,757; Sept. 4.

Hopkins, Robert C., Alliance, Ohio. Recuperator. 1,683,577; Sept. 4.

Hoppes, John J., Springfield, Ohio. Water wheel. 1,682,966; Sept. 4.

Horigan, Joseph A., Kansas City, Mo. Capsule. 1,683,466; Sept. 4.

Horlick, William, jr., Racine, Wis. Can closure and sealing means. 1,683,034; Sept. 4.

Hornecker, George, Elmhurst, assignor, by mesne assignments, to Conwell Graphic Company, Incorporated, New York, N. Y. Display device. 1,682,758; Sept. 4.

Hotchkiss, Clifford. (See Phelan, L. A. M., and Hotchkiss.)

Houle, Francis T., assignor to Biddle & Smart Company, Amesbury, Mass. Vehicle body. 1,683,467; Sept. 4.

Howell, James W., assignor to The White Motor Company, Cleveland, Ohio. Bearing puller. 1,683,188; Sept. 4.

Howell, James W., assignor to The White Motor Company, Cleveland, Ohio. Bearing puller. 1,683,189; Sept. 4.

Hoyle, John, and S. T. Short, Buchanan County, Iowa. Rake attachment for cultivators. 1,682,967; Sept. 4.

Huenerkopf, Henry. (See Wilson, C. E., and Huenerkopf.)

Hughes, Charles H., assignor of one-half to H. C. Denny, Denver, Colo. Automobile spring snubber. 1,683,075; Sept. 4.

Hughes, James R., and W. H. Weber, assignors to The Studebaker Corporation, South Bend, Ind. Radiator cap. Des. 76,242; Sept. 4.

Hughes, Victor, assignor to General Motors Research Corporation, Detroit, Mich. Making drag links. 1,683,035; Sept. 4.

Hughes, Victor, assignor to General Motors Research Corporation, Detroit, Mich. Speedometer drive. 1,683,036; Sept. 4.

Hughes, Victor. (See Short, C. R., and Hughes.)

Hughey, Irvin M. (See Hughey, V. D., Mullins, and Hughey.)

Hughey, Richard A., Sprott, Ala. Pipe collar. 1,683,548; Sept. 4.

Hughey, Virgil D., O. R. Mullins, and I. M. Hughey, Calhoun, Ga. Pan lifter. 1,683,190; Sept. 4.

Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Amplifier. 1,683,134; Sept. 4.

Hull, Luther J., et al. (See Mulligan, Paul C., assignor.)

Hume, David. (See Durham, J. E., jr., and Hume.)

Hump Hairpin Manufacturing Company, The. (See Will, Frederick D., assignor.)

Hunt, John H., Detroit, Mich., assignor to General Motors Research Corporation, Dayton, Ohio. Ignition system. Re17,074; Sept. 4.

Huntley, George J., Baltimore, Md., assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., New York, N. Y. Liquid gauge. 1,683,191; Sept. 4.

Hurlbut, Ira E., Prairie du Chien, Wis. Core member for casting printing plates. 1,683,356; Sept. 4.

Huth, Dr. Erich F., Ges. m. b. H. (See Cohn, Henry, assignor.)

Huye, Joseph G., New Orleans, La. Box. 1,683,192; Sept. 4.

Hygienic Fibre Company. (See Remley, Ernest, assignor.)

Hygienol Co. Inc., The. (See Raynor, Louis L., assignor.)

Idealite Electric Lamp Shade Mfg. Co. (See Lustig, Alex, assignor.)

Industrial Dryer Corporation, The. (See Harris, Gordon D., assignor.

Inland Manufacturing Company. (See Chilton, Ralph H., assignor.

Inland Manufacturing Company. (See Geyer, Harvey D., assignor.

International Code Machine Company. (See Hebern, Edward H., assignor.)

International Paper Company. (See Healy, Ellis C., assignor.)

Irving-Pitt Manufacturing Company. (See Conger, Claude M., assignor.)

Irwin & Company. (See Cohn, Irwin, assignor.)

Isom, Edward W., Winnetka, assignor to Sinclair Refining Company, Chicago, Ill. Distillation of petroleum. 1,683,135; Sept. 4.

Isom, Edward W., Scarsdale, N. Y., and E. C. Herthel, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Distillation of crude petroleum. 1,683,193; Sept. 4.

Ives, Charles A. (See Macloskie, G., and Ives.)

Jack, Robert K., Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich. Engine. 1,683,039; Sept. 4.

Jackson, Merlin M., assignor to F. Hamann and G. I. Lang, San Jose, Calif. Clothes washing and wringing machine. 1,683,037; Sept. 4.

Jacob, William G. R. (See Smith, W. S., McLachlan, and Jacob.)

Jacobi, Emil R., and F. H. Le Jeune, Jackson, assignors by mesne assignments, to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Making metal wheels. 1,682,909; Sept. 4.

Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-level indicator. 1,682,843; Sept. 4.

Jaeger, Alphons O., assignor to The Selden Company, Pittsburgh, Pa. Catalytic apparatus. 1,682,787; Sept. 4.

Jaeger, Gebhard, Columbus, Ohio. Jacking device for vehicle beds. 1,682,910; Sept. 4.

Jahant, Charles J., assignor to The General Tire & Rubber Company, Akron, Ohio. Golf club. Re17,076; Sept. 4.

Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 76,243; Sept. 4.

Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 76,244; Sept. 4.

Janette, John T., Chicago, Ill. Mortor and pump. 1,682,788; Sept. 4.

Janette, John T., Chicago, Ill. Controlling apparatus. 1,682,789; Sept. 4.

Janette, John T., Chicago, Ill. Electrical contact. 1,682,790; Sept. 4.

Jarvis, William B., Grand Rapids, Mich. Radiator cap. 1,683,038; Sept. 4.

Jarvis, W. B., Company. (See Chapel, George L., assignor.)

Jefferies, Ernest S., Hamilton, Ontario, Canada. Electric metal-stock heater. 1,682,968; Sept. 4.

Jenkins, Bessie A., administratrix. (See Aarvig, Rasmus.)

Jenkins, Charles F., Washington, D. C. Method of and apparatus for converting light impulses into graphic representations. 1,683,136; Sept. 4.

Jenkins, Charles F., Washington, D. C. Method of and apparatus for converting light impulses into enlarged graphic representations. 1,683,137; Sept. 4.

Johnson, Percy G., and H. R. Morgan, assignors to Victaulic Company Limited, London, England, Spigot and socket pipe joint. 1,683,076; Sept. 4.

Jonas, Richard A., Brooklyn, N. Y. Indexing. 1,683,468; Sept. 4.

Jones, Ernest P., Pulaski, Tenn. Scrubbing mop. 1,683,549; Sept. 4.

Jordan, O. F., Company. (See Protzeller, Harry W., assignor.)

Jorgensen, Edmund N., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-working mechanism. 1,682,911; Sept. 4.

Joyce, Charles S., Brooklyn, N. Y. Valve for internal-combustion engines. 1,683,077; Sept. 4.

Judge, Edward J. (See Cutler, Peirce, assignor.)

Junkers, Hugo. (See Retschy, Curt, assignor.)

Junkers, Hugo, Dessau, Germany. Working oil engine. 1,683,040; Sept. 4.

K-W Ignition Corporation, The. (See Mallory, Marion, assignor.)

K-W Ignition Corporation, The. (See Williams, J. A., and Karkau, assignors.)

Kaehni, Frank J. and W. L., Cleveland, Ohio. Transformer. 1,683,389; Sept. 4.

Kaehni, William L. (See Kaehni, Frank J and W. L.)

Kauffman, Wilbur K., assignor to Deca-Disc Phonograph Company, Waynesboro, Pa. Record holder for talking machines. 1,683,469; Sept. 4.

Kägi, Emil, assignor to the firm Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Compressor. 1,683,390; Sept. 4.

Kaiser, Charles. (See Boman, C. W., and Kaiser.)

Karkau, Albert G. (See Williams, J. A., and Karkau.)

Karn, Mack L., Pontiac, Mich. Fastener for safety calk web. 1,683,041; Sept. 4.

Kautz, William, Willard, Ohio. Fire escape. 1,683,138; Sept. 4.

Kay, Arthur G., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Sewing-machine attachment. 1,683,078; Sept. 4.

Kearsley, William K. jr., Schenectady, N. Y., assignor to General Electric Company. Vibrating regulator. 1,683,139; Sept. 4.

Kearsley, William K., Schenectady, N. Y., assignor to General Electric Company. Regulating system for thermionic devices. 1,683,194; Sept. 4.

Keech, Dana E., Los Angeles, Calif. Toast inspector. 1,683,550; Sept. 4.

Keller Mechanical Engineering Corporation. (See Shaw, John C., assignor.)

Keller Mechanical Engineering Corporation. (See Shaw, John C. and R. D., assignors.)

Kelley, Victor H., Madison, Wis. Variety vending machine. 1,683,251; Sept. 4.

Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Sheet-feeding mechanism. 1,683,195; Sept. 4.

Kelsey-Hayes Wheel Corporation. (See Jacobi, E. R., and Le Jeune, assignors.)

Kelsey Wheel Company. (See Battle, Joseph E., assignor.)

Kempton, Curtis W. (See Moody, V. H., and Kempton.)

Kempton, Leslie A., Bridgeport, Conn., assignor to General Electric Company. Electric heating system. 1,683,196; Sept. 4.

Kendall, William G., Newark, N. J. Vanity case. 1,683,551; Sept. 4.

Kendall, William G., Newark, N. J. Compact-plate-holding ring. 1,683,552; Sept. 4.

Kent, Arthur A. (See Appleby, Thomas, assignor.)

Kenyon, Roland D., Carthage, N. Y. Potato-baking device. 1,683,554; Sept. 4.

Kerr, Alva L., Mansfield, Ohio. Latching mechanism. 1,683,553; Sept. 4.

Kertes, John, Pittsburgh, Pa. Removable fireplace. 1,683,079; Sept. 4.

Kewaskum Aluminum Company. (See Rosenheimer, Adolph L., jr., assignor.)

Key Boiler Equipment Co. (See Key, Frederick E., assignor.)

Key, Frederick E., assignor to Key Boiler Equipment Co., East St. Louis, Ill. Valve. 1,683,555; Sept. 4.

Keyser, Leroy F., Akron, Ohio. Roll garter. 1,682,912; Sept. 4.

Kiernan, Charles. (See Coburn, W. H., and Kiernan.)

Kindervater, Julius, New York, N. Y. Main-rod bearing. 1,682,969; Sept. 4.

Kingman, Russell B., Orange, N. J. Metallic abrasive scouring device. 1,683,357; Sept. 4.

Kingman, Russell B., Orange, assignor to Useful Products Company, West Orange, N. J. Indicator for memory-checking devices. 1,683,358; Sept. 4.

Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Box-column-type upright drill. 1,682,844; Sept. 4.

Klein, Paul, Budapest, Hungary, and A. Healey, Birmingham, England, assignors to The American Anode Incorporated, New York, N. Y. Direct production of rubber goods from rubber dispersions. 1,683,588; Sept. 4.

Klepetko, Ernest. (See Morrow, B. S., and Klepetko.)

Klopsteg, Paul E., assignor to Central Scientific Company, Chicago, Ill. Vacuum oven. 1,683,359; Sept. 4.

Knapp, Ray, Buffalo, N. Y. Mixer. 1,682,970; Sept. 4.

Knisley, Harry M., C. A. Creswell, and H. F. Messer, Lancaster, Pa. Headlight-shifting mechanism. 1,683,556; Sept. 4.

Knopf, Carl, Hamburg, Germany. Production of waterproof textile material, paper, and the like. 1,683,470; Sept. 4.

Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Hand guard for sheep shears. 1,682,759; Sept. 4.

Kohl, Wesley G., Iowa City, Iowa. Poultry-record calendar. 1,683,140; Sept. 4.

Kokemiller, Carl F., Story City, Iowa. Tank gauge. 1,683,557; Sept. 4.

Kolster, Frederick A., Palo Alto, Calif. Variable condenser. 1,683,558; Sept. 4.

Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radio receiving system. 1,683,080; Sept. 4.

Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Variable-coupling transformer. 1,683,081; Sept. 4.

Kopp Glass, Inc. (See Kopp, Nicholas, assignor.)

Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass, Inc., Swissvale, Pa. Glass vase. Des. 76,245; Sept. 4.

Koppe, Alexander T., assignor to Directoplate Corporation, Chicago, Ill. Photo-composing machine. 1,682,845; Sept. 4.

Kraft, Henry P., deceased, Ridgewood, N. J.; E. J. Phillips and E. A. Darr, executors. Pressure gauge. 1,683,471; Sept. 4.

Kratz, Howard L., assignor to John Wanamaker Philadelphia, Philadelphia, Pa. Folding screen for a room. Des. 76,246; Sept. 4.

Kremers, Harry C., Urbana, Ill. Electrolytic rectifier. 1,682,846; Sept. 4.

Krogan, Abner H., Stanley, Wis. Corn cutter. 1,683,042; Sept. 4.

Lieuger, Paul, assignor to the firm of J. R. Geigy S. A., Basel, Switzerland. Manufacture of acid dyestuffs of the phenonaphthosafranine series. 1,683,559; Sept. 4.

Laflin, James E., Berlin, N. H., assignor, by mesne assignments to Chemicolor Wood Preserving Co. Treating trees. 1,682,760; Sept. 4.

Lage, Ernst A., Wandsbek, near Hamburg, Germany. Production of photographic plates, films, and the like for indirect three-color photography. 1,683,560; Sept. 4.

Lake Lithograph Company, The. (See Ferguson, J. E., and Mooney, assignors.)

Lakewood Engineering Company, The. (See Carr, Edward G., assignor.)

Lane, Henry M., Detroit, Mich. Ladle crane. 1,683,472; Sept. 4.

Lane Manufacturing Company. (See Pitkin, George D., assignor.)

Lang, Glen I., et al. (See Jackson, Merlin M., assignor.)

Lang, Henry T., assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Handle construction for electric vacuum cleaners and the like. 1,683,197; Sept. 4.

Lansing, Raymond P., Montclair, N. J., assignor, by mesne assignments, to Eclipse Machine Company, New York, N. Y. Engine-starting apparatus. 1,682,971; Sept. 4.

Larrabee, John E. (See Foresman, R. A., and Larrabee.)

Lavoisier, Ian J., New Orleans, La., assignor by mesne assignments, to The Burdick Corporation, Milton, Wis. Electric-arc lamp. 1,682,847; Sept. 4.

Lawrence, George R., Chicago, Ill. Hygrostat. 1,682,915; Sept. 4.

Lawson, Lindley S., assignor to Lawson Manufacturing Company, Pittsburgh, Pa. Heater. 1,683,082; Sept. 4.

Lawson Manufacturing Company. (See Lawson, Lindley S., assignor.)

Layman, Frank E., and L. T. Richardson, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Sound-record composition. 1,682,913; Sept. 4.

Layman, Frank E., and L. T. Richardson, Milwaukee, and O. A. Cherry, Wauwatosa, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Molding plastic bodies. 1,682,914; Sept. 4.

Lea, Charles, assignor to The Automatic Merchandizer Inc., Boston, Mass. Vending machine. 1,683,360; Sept. 4.

Len, Charles, assignor to The Automatic Merchandizer Inc., Boston, Mass. Coin-controlled mechanism. 1,683,361; Sept. 4.

Lebby, States L., assignor to Corning Glass Works, Corning, N. Y. Electric incandescent lamp. 1,682,916; Sept. 4.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body. Des. 76,247; Sept. 4.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body side. Des. 76,248; Sept. 4.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body front. Des. 76,249; Sept. 4.

Lefranc, Jacques, assignor to Societe des Brevets Etrangers Lefranc & Cie., Paris, France. Extraction of butyric acid and its homologues. 1,683,198; Sept. 4.

Lehmann, Kurt. (See Falcke, E., and Lehmann.)

Le Jeune, Frank H. (See Jacobi, E. R., and Le Jeune.)

Le Mur, S., Company, The. (See Lewis, Wilbur S., assignor.)

Lenfers, Harry, Evansville, Ind. Reversible light for automobiles. 1,683,141; Sept. 4.

Leonard, Foster A., et al. (See Thomas, William M., assignor.)

Le Roy, Bernard L. (See Beans, J. F., and Le Roy.)

Les Petits Fils de Francois de Wendel & Cie. (See Weber, Robert, assignor.)

Letson, Russell C., Los Angeles, Calif. Doll. 1,683,561; Sept. 4.

Lewis, Goodrich Q., Wheaton, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,683,473; Sept. 4.

Lewis, John, Brownville, Me. Machine for manufacturing wooden spoons. 1,682,917; Sept. 4.

Lewis, Wilbur S., Lakewood, assignor to The S. Le Mur Company, Cleveland, Ohio. Permanent-waving apparatus. 1,682,972; Sept. 4.

Lilienfeld, Leon, Vienna, Austria. Artificial thread and making same. 1,683,199; Sept. 4.

Lilienfeld, Leon, Vienna, Austria. Artificial material and making same. 1,683,200; Sept. 4.

Lindbloom, Albert C., Chicago, Ill. Packing device for valve stems. 1,683,293; Sept. 4.

Linderman, Garrett B., jr., Erie, Pa., assignor to American Meter Company, Incorporated, New York, N. Y. Blower. 1,683,474; Sept. 4.

Lindquist, Edward, Omaha, Nebr. Sliding-jaw wrench. 1,683,201; Sept. 4.

Linga Company, The. (See Linga, Torbjorn, assignor.)

Linga, Torbjorn, assignor to The Linga Company, Waukegan, Ill. Carburetor. 1,682,761; Sept. 4.

Littell, Nelson, New York, N. Y. Process and apparatus for casting. 1,683,475; Sept. 4.

Locomotive Firebox Company. (See Hawley, Charles G., assignor.)

Löffler, Stephan, Berlin-Charlottenburg, Germany. Fluid-level indicator and leading-in arrangement for electrodes in hot high-pressure rooms. 1,683,362; Sept. 4.

Loftin, Edward H., trustee. (See Loftin, Edward H., assignor.)

Loftin, Edward H., Washington, D. C., assignor to E. H. Loftin, trustee. Amplifier of electrical currents. 1,683,083; Sept. 4.

Lord, Herbert Coventry, England. Gaiter for use on suspension springs. 1,683,363; Sept. 4.

Loucks, James F., Cleveland, assignor of one-half to H. Gillett, Gates Mills, Ohio. Clamping device. 1,683,364; Sept. 4.

Loudenslager, Henry and W. J., Columbus, Ohio. Street-manhole cover. 1,683,365; Sept. 4.

Loudenslager, Walter J. (See Loudenslager, Henry and W. J.)

Low, Archie E., Ottawa, Ontario, Canada. Mail-bag lock. 1,683,294; Sept. 4.

Lucklesh, Matthew, Cleveland, Ohio, L. C. Doane, Meriden, Conn., and A. Miller, Cleveland Ohio; said Doane and said Miller assignors to The Miller Company, Meriden, Conn. Shade holder. 1,682,918; Sept. 4.

Luebbers, Gerhardt L., Parma, Mo. Stump-pulling machine. 1,682,973; Sept. 4.

Lukens, Francis J., Washington, D. C. High-speed trackway. 1,682,974; Sept. 4.

Lustig, Alex, assignor to Idealite Electric Lamp Shade Mfg. Co., Inc., New York, N. Y. Lamp-shade frame. 1,683,585; Sept. 4.

Lyman, Louis, Cleveland, Ohio. Toy boat. Des. 76,250; Sept. 4.

MacDonald, William A., Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J. Electron-discharge device. 1,683,202; Sept. 4.

Macomber, Stanley, Massillon, assignor to The Macomber Steel Company, Canton, Ohio. Bar-bending machine. 1,683,366; Sept. 4.

Macomber Steel Company, The. (See Macomber, Stanley, assignor.)

Mackenzie, Fred L. (See Spinney, C. N., and Mackenzie.)

MacKenzie, Roy J., and L. L. Haas, assignors to Buffalo Pressed Steel Company, Buffalo, N. Y. Muffler. 1,683,084; Sept. 4.

Mackert, Charles, St. Anthony, Idaho. Pulley attachment. 1,683,562; Sept. 4.

Maclaren, James G., Mamaroneck, N. Y. Electrically-controlled dumb-waiter. 1,683,391; Sept. 4.
Macloskie, George, and C. A. Ives, Erie, Pa., assignors to General Electric Company. Car-door-control equipment. 1,683,142; Sept. 4.
Madigan, Thomas J., Brooklyn, N. Y. Thermoelectric control device. 1,683,252; Sept. 4.
Mallinson, H. R., & Co. Inc. (See Heinke, Alfred J., assignor.)
Mallory, Marion, Toledo, assignor, by mesne assignments, to The K-W Ignition Corporation, Cleveland, Ohio. Timer. 1,683,392; Sept. 4.
Malloy, James T., Oakland, R. I., assignor to Draper Corporation, Hopedale, Mass. Dobby for looms. 1,682,791; Sept. 4.
Maloney, John F., deceased, Woonsocket, R. I.; M. M. Maloney, administratrix. Knitting machine. 1,683,586; Sept. 4.
Maloney, Mary M., administratrix. (See Maloney, John F.)
Mantor, Inc. (See Oiler, Frank E., assignor.)
Manufacturers' Machine Company. (See Perdue, John C., assignor.)
Marquette Manufacturing Company. (See Burandt, G. A., and Nordgren, assignors.)
Marquette Tool & Mfg. Company. (See Rode, Fredrich J., assignor.)
Mason, Max. (See Hanks, M. W., and Mason.)
Maxim, Hudson, deceased, Hopatcong Borough, N. J.; L. Maxim, executrix. Generating motive fluid. 1,683,083; Sept. 4.
Maxim, Lillian, executrix. (See Maxim, Hudson.)
Maximoff, Alexander T., New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Manufacture of erythrene. 1,682,919; Sept. 4.
Maximoff, Alexander T., New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Manufacture of thiuram monosulphides. 1,682,920; Sept. 4.
Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Lens cutter. 1,683,295; Sept. 4.
Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Producing rubber tubes. 1,682,923; Sept. 4.
McAdams, Harry, Philadelphia, Pa., assignor of one-half to J. W. Starr, 3d, Atlantic City, N. J. Circular-knitting machine. 1,683,203; Sept. 4.
McCahan, Ralph, Canton, Ohio. Printing-press chase. 1,682,762; Sept. 4.
McCaskey, Alfred S., Chicago, Ill. Grave marker. Des. 76,251; Sept. 4.
McConnell, Walter J., Cleveland, Ohio. Work and tool holder. 1,683,253; Sept. 4.
McCreary, Thomas W., assignor to The Phoenix Glass Company, Monaca, Pa. Fish bowl or similar article. Des. 76,252; Sept. 4.
McFarland, Owen D., assignor to Guyton & Cumfer Mfg. Co., Chicago, Ill. Apparatus for producing individual-shingle-simulating elements. 1,682,921; Sept. 4.
McGinnis, Basil W., assignor, by mesne assignments, to Universal Metal Mfg. Co., Birmingham, Ala. Ice-cream freezer. 1,682,976; Sept. 4.
McIntyre-Burrall Company. (See Burrall, Fred E., assignor.)
McKone, Charles W., Canton, Ohio. Rubber-tire-bead construction. 1,682,922; Sept. 4.
McLachlan, Norman W. (See Smith, W. S., McLachlan, and Jacob.)
McLaurin-Jones Co. (See Farrell, Frederick W., assignor.)
McMurdie, Charles L., Ferndale, Mich. Manicuring light. 1,683,476; Sept. 4.
Meckbach, Ernst, Opladen, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Protecting wool and fur from moths. 1,682,975; Sept. 4.
Meehan, Augustus F., Chattanooga, Tenn. Cast iron and making same. 1,683,086; Sept. 4.
Meehan, Augustus F., assignor to Meehanite Metal Corporation, Chattanooga, Tenn. Cast iron and making same. 1,683,087; Sept. 4.
Meehanite Metal Corporation. (See Meehan, Augustus F., assignor.)
Melchor, James T., Mooresville, N. C., assignor to Saco-Lowell Shops, Boston, Mass. Warper. 1,683,367; Sept. 4.
Mellor, John. See Crossby, W. E. J., and Mellor.)
Meltzer, Jack, Brooklyn, N. Y. Bootee. Des. 76,253; Sept. 4.
Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)
Mergott, J. E., Co. (See Hiering, William C., assignor.)
Merz, Karl E., Oakland, Calif. Permanent-wave heater. 1,683,088; Sept. 4.
Messer, Harry F. See Knisley, H. M., Creswell, and Messer.)
Metzner, Albert W. (See Sherman, J. Q., and Metzner.)
Meyer-Gaus, Karl, Barmen, Germany, assignor to the firm: American Bemberg Corporation, New York, N. Y. Machine for spinning and winding filaments. 1,682,763; Sept. 4.
Meyerhofer, Albert F. (See Buchner, Max, assignor.)
Michell, Anthony G. M., Melbourne, Victoria, assignor to Crankless Engines Limited, Melbourne, Victoria, Australia. Mechanism for the interconversion of reciprocating and rotary motion. 1,682,924; Sept. 4.
Michle Printing Press & Manufacturing Company, The. (See Blaine, Joseph R., assignor.)
Mijares, Anilo, Yonkers, N. Y. Inlet mechanism for carburetors. 1,683,477; Sept. 4.
Milberg, Abraham, Chicago, Ill. Vending machine. 1,683,563; Sept. 4.
Miller, Albert A. (See Paull, J., and Miller.)
Miller, Alice J., Chicago, Ill. Bench standard. Des. 76,254; Sept. 4.
Miller, Arthur. (See Lucklesh, M., Doane, and Miller.)
Miller, Augustus, East Orange, N. J. Weather strip. 1,683,564; Sept. 4.
Miller Company, The. (See Lucklesh, M., Doane, and Miller, assignors.)
Miller Company, The. (See Wolter, Herman H., assignor.)
Miller, John, jr., Beloit, Wis., assignor to Charles H. Besly and Company, Chicago, Ill. Work-feeding device for grinding machines. 1,682,925; Sept. 4.
Miller, Robert A., Pekin, Ill. Plant protector. 1,683,043; Sept. 4.
Miller Rubber Company, The. (See Griffiths, Richard T., assignor.)
Mills, Edgar T., Millville, W. Va. Fly screen. 1,683,204; Sept. 4.
Mills, Gordon B., et al. (See Mills, G. B., Schmiedeskamp, and Skinner, assignors.)
Mills, Gordon B., Oakland, A. J. Schmiedeskamp, Berkeley, and H. E. Skinner, Oakland, Calif.; said Schmiedeskamp assignor to said Mills and Skinner. Game apparatus. 1,682,926; Sept. 4.
Mills, Ray F., Waynesville, Ohio. Reatomizing device. 1,683,089; Sept. 4.
Miner, W. H., Inc. (See Geiger, William A., assignor.)
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Miner, W. H., Inc. (See Lewis, Goodrich Q., assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Miner, W. H., Inc. (See Olander, Roland J., assignor.)
Minton, Ogden, Greenwich, Conn. Vacuum seal and apparatus. 1,683,254; Sept. 4.
Mirick, Carlos B., Washington, D. C. Electrical system. 1,683,090; Sept. 4.
Mirick, Carlos B., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric crystal holder. 1,683,091 Sept. 4.
Mirick, Carlos B., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric crystal holder. 1,683,092; Sept. 4.
Mirick, Carlos B., and A. Crossley, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y. Piezo-electric crystal apparatus. 1,683,093; Sept. 4.
Mitchell, Allister S., assignor to California Cotton Mills Company, Oakland, Calif. Apparatus for stuffing plaits. 1,683,296; Sept. 4.
Mix, William J., assignor to A. Mueller, trustee, Decatur, Ill. Receptacle-actuated faucet. 1,683,565; Sept. 4.
Mix, William J., assignor to A. Mueller, trustee, Decatur, Ill. Soap dish. 1,683,566; Sept. 4.
Moblus, Curt E., Brooklyn, and W. N. Engler, assignors to The Western Union Telegraph Company, New York, N. Y. Cable car. 1,683,578; Sept. 4.
Mohr, John D., Newark, N. J. Trick automobile. 1,682,764; Sept. 4.
Moline Implement Company. (See Bechtelheimer, H. A., and Corbin, assignors.)
Moline Implement Company. (See Boda, Joseph E., assignor.)
Mongeau, Fred D., Dearborn, Mich. Burnishing tool. 1,683,044; Sept. 4.
Moody, Julius C., and L. F. Hoffman, Franklin, Pa., assignors to Chicago Pneumatic Tool Company, New York, N. Y. Fluid-pressure-control device. 1,682,848; Sept. 4.
Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. 1,683,567; Sept. 4.
Moody, Virgil H., and C. W. Kempton, Gloucester, Ohio. Window-curtain fitting. 1,683,568; Sept. 4.
Mooney, Henry L. (See Ferguson, J. E., and Mooney.)
Moore, William G., Lankershim, Calif. Ribbon safety razor. 1,682,794; Sept. 4.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,682,792; Sept. 4.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,682,793; Sept. 4.
Morey, Harry J., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Fixture-body switch. 1,682,849; Sept. 4.
Morgan, Albert, Indianapolis, Ind. Rake. 1,682,795; Sept. 4.
Morgan, David W. R., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Condenser. 1,683,393; Sept. 4.
Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and loading apparatus. 1,683,045; Sept. 4.
Morgan, Harold R. (See Johnson, P. G., and Morgan.)
Morgan, John R. (See Jandus, H. S., and Morgan.)
Morgan, Olive E., executrix. (See Morgan, Edmund C.)
Morrill, Philip E. (See Finn, L. J., and Morrill.)

Morrow, Bayard S., and E. Klepetko, Anaconda, Mont. Selective flotation of minerals. 1,683,569; Sept. 4.
Morse Chain Company. (See Bremer, Norman C., assignor.)
Mortenson, Oscar W., G. E. Thelin, and K. F. Norrhagen, Chicago, Ill. Tie press. 1,683,255; Sept. 4.
Moss, Louis N., Cedarhurst, N. Y. Interchangeable sign element. 1,683,570; Sept. 4.
Mueller, Adolph, trustee. (See Mix, William J., assignor.)
Mueller, Adolph, trustee. (See Mueller, Phillip, assignor.)
Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
Mueller, Phillip, assignor to A. Mueller, trustee, Decatur, Ill. Gasoline bucket. 1,683,571; Sept. 4.
Mueller, Phillip, and A. C. Schuermann, deceased, by H. Schuermann, executrix, assignors to A. Mueller, trustee, Decatur, Ill. Pipe-bending mandrel. 1,683,572; Sept. 4.
Mueller, Phillip, and A. C. Schuermann, deceased, by H. Schuermann, executrix, assignors to A. Mueller, trustee, Decatur, Ill. Pipe-bending mandrel or punch. 1,683,573; Sept. 4.
Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Collating equipment for adding machines and the like. 1,682,765; Sept. 4.
Mulligan, Paul C., Seattle, Wash., assignor to L. J. Hull, I. M. Foster, and himself. Briquetting. 1,683,094; Sept. 4.
Mullins, Oscar R. (See Hughey, V. D., Mullins, and Hughey.)
Murphy, Joseph R., Shelbyville, Tenn. Arrow-shooting gun. 1,683,574; Sept. 4.
Murray, Thomas E. (See Murray, T. E., jr., and Williams, assignors.)
Murray, Thomas E., Brooklyn, N. Y. Boiler. 1,683,046; Sept. 4.
Murray, Thomas E., jr., and H. H. Williams; said Williams assignor to T. E. Murray, Brooklyn, N. Y. Farming axle housings. 1,683,047; Sept. 4.
Myers, William L., St. Louis County, Mo. Carpenter's level. 1,683,256; Sept. 4.
National Carbon Company. (See Smith, Edward C., assignor.)
National Lead Company. (See Hallerman, Frank W. A., assignor.)
National Supply Company, The. (See Archer, Merton T., assignor.)
Naugatuck Chemical Company, The. (See Maximoff, Alexander T., assignor.)
Naugatuck Chemical Company, The. (See Ostromislenesky, Iwan, assignor.)
Naugatuck Chemical Company, The. (See Ostromislensky, I., and Shepard, assignors.)
Nead, William S. (See Cagan, S., and Nead.)
Neidich, Samuel A., Edgewater Park, N. J. Viscose-treating apparatus. 1,683,478; Sept. 4.
Nelkin, Celin. (See Brady, T. G., and Nelkin.)
Nelson, Emil A., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Cap nut. Des. 76,255; Sept. 4.
Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Machine for rolling wheel disks. 1,683,368; Sept. 4.
Newmyer, Dan K., Houston, Tex. Track level. 1,683,394; Sept. 4.
Newton, Edward C., Los Angeles, Calif. Two-piece piston ring. 1,682,850; Sept. 4.
Newton, William G., East Orange, N. J. Radiator cap. 1,682,766; Sept. 4.
Nichols & Shepard Company. (See Ashton, James T., assignor.)
Nicholson, Fred T., Bloomfield, N. J. Paper receptacle or container and making the same. 1,682,977; Sept. 4.
Nielsen, Lauritz F., assignor to Durkee-Atwood Company, Minneapolis, Minn. Pulley attachment. 1,682,927; Sept. 4.
Niven, Archie M., assignor to Continental Motors Corporation, Detroit, Mich. Cylinder-head construction. 1,682,928; Sept. 4.
Noguchi, Shuhei, New York, N. Y. Shipping tag. 1,682,851; Sept. 4.
Nordgren, Algot W. (See Burandt, G. A., and Nordgren.)
Nordstrom, Sven J., assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,683,257; Sept. 4.
Norling Karl A. P. (See Svensson, K. J., and Norling.)
Norrhagen, Karl F. (See Mortenson, O. W., Thelin, and Norrhagen.)
North American Chemical Company. (See Thoma, Andrew, assignor.)
Northern Equipment and Supply Company. (See Selvig, Gustaf A., assignor.)
Nowalk, Robert F. (See Watson, J. W., and Nowalk.)
Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph-record album. 1,683,479; Sept. 4.
Oakland, Martin, Chicago, Ill. Cultivating implement. 1,683,395; Sept. 4.
O'Brien, Kenneth, Calpine, Calif. Sheet and station indicator. 1,683,575; Sept. 4.
O'Brien, Patrick F., Franklin, Mass. Loom feeler mechanism. 1,683,369; Sept. 4.
Ochs, Clarence, and B. Hildebrand, Long Beach, Calif., assignors to Chicago Pneumatic Tool Company, New York, N. Y. Method of and apparatus for inducing and increasing the flow of wells. 1,682,929; Sept. 4.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Hand brake. 1,683,396; Sept. 4.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,683,397; Sept. 4.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,683,398; Sept. 4.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,683,399; Sept. 4.
Odell, William W. (See Botsford, Claude W., assignor.)
Offemaria, Engracio P., Chicago, Ill. Valve leak and puncture detector. 1,683,095; Sept. 4.
Ogden, Warren G. (See Terry, Arthur L., jr., assignor.)
O'Hara, Skidmore, assignor to O'Hara Waltham Company, Waltham, Mass. Machine for printing or embossing. 1,682,978; Sept. 4.
O'Hara Waltham Company. (See O'Hara, Skidmore, assignor.)
Ohio Brass Company, The. (See Snyder, Edward B., assignor.)
Oiler, Frank E., Detroit, Mich., assignor to Monitor, Inc., New York, N. Y. Motion-picture-printing mechanism. 1,682,979; Sept. 4.
Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,683,480; Sept. 4.
Olson, Walter E., Chicago, Ill. Tension device for winding machines. 1,682,796; Sept. 4.
Opelt, Joseph J., Guttenberg, N. J. Piano case. 1,682,767; Sept. 4.
Orange Lighting Fixture Manufacturing Co. (See Seidell, Alfred P., assignor.)
Ormsbee, Willard A., Taunton, Mass. Button. Des. 76,256; Sept. 4.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Valve mechanism. 1,682,908; Sept. 4.
Osnos, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Circuit arrangement for high-frequency systems with frequency amplification. 1,682,768; Sept. 4.
Ostertag, Harry M., Appleton, assignors, by mesne assignments, to Paper Patents Company, Neenah, Wis. Machine for planing suction boxes. 1,682,980; Sept. 4.
Ostromislensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Polymerized styrol and its homologues and the polymerization of styrol and its homologues. 1,683,402; Sept. 4.
Ostromislensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Polymerized styrol and its homologues and the polymerization of styrol and its homologues. 1,683,403; Sept. 4.
Ostromislensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Polymerized styrol and its homologues and the polymerization of styrol and its homologues. 1,683,404; Sept. 4.
Ostromislensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Making vitreous polymerized styrols and products obtained thereby. 1,683,405; Sept. 4.
Ostromislensky, Iwan, and M. G. Shepard, New York, N. Y. assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Process for making substantially homogeneous masses of polymerized styrol from a nonhomogeneous mass of polymerized styrol. 1,683,401; Sept. 4.
O'Toole, Edward, Gary, W. Va. Mining machine. 1,683,297; Sept. 4.
Otto, Gustav, A. Hartmann, and G. Bauriedel, Barmen, Germany, assignors, by mesne assignments, to American Bemberg Corporation. Apparatus for spinning artificial silk. 1,682,797; Sept. 4.
Outcault, Richard F., jr., Chicago, Ill. Leaf for a bank deposit book. Des. 76,257; Sept. 4.
Owen, Raymond V., assignor to The Edwin F. Guth Company, St. Louis, Mo. Lighting-fixture globe or similar article. Des. 76,258; Sept. 4.
Pacent Electric Company. (See Pacent, Louis G., assignor.)
Pacent, Louis G., Winfield, assignor to Pacent Electric Company, Inc., New York, N. Y. Connecting plug. 1,683,370; Sept. 4.
Packard, Edward S., Holyoke, Mass. Cup-drip attachment. 1,683,205; Sept. 4.
Packard Motor Car Company. (See Gunn, Earl G., assignor.)
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Packs (1925) Limited. (See Crossby, W. E. J., and Mellor, assignors.)
Page, Herbert E., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Garment-pressing machine. 1,682,852; Sept. 4.
Page, Nelson, L. B., and J. C. Emerson, assignors to N. L. Page & Son Co., Auburn, Me. Folding table. 1,683,579; Sept. 4.
Page, N. L., & Son Co. (See Page, N. L. B., and Emerson, assignors.)
Paper Converting Machine Co. (See Christman, Peter J., assignor.)

Paper Patents Company. (See Ostertag, Harry M., assignor.)
Paque, Edward J., Cincinnati, assignor to The Pollak Steel Company, Carthage, Ohio. Double-wheel grinder. 1,683,048; Sept. 4.
Parent, Joseph V., assignor to Worcester Electric Supply Company, Worcester, Mass. Lamp socket. 1,682,930; Sept. 4.
Pass & Seymour, Inc. (See Morey, Harry J., assignor.)
Passmore, Hayes M., Oakland, Calif. Variable-speed transmission. 1,683,258; Sept. 4.
Patrol Valve Company, The. (See Te Pas, Edmund J., assignor.)
Paull, James, and A. A. Miller, assignors to The Eagle Manufacturing Company, Wellsburg, W. Va. Candy container. Des. 76,259; Sept. 4.
Peabody Engineering Corporation. (See Peabody, Ernest H., assignor.)
Peabody, Ernest H., Pelham Manor, assignor to Peabody Engineering Corporation, New York, N. Y. Method and apparatus for control of the burning of liquid fuel. 1,683,371; Sept. 4.
Pease, John W., assignor to W. N. Pease, Rochester, N. Y. Method of and apparatus for seed-celling apples. 1,683,481; Sept. 4.
Pease, Winnifred N. (See Pease, John W., assignor.)
Peck, Jacob G., Portland, Oreg. Ice-cream cabinet and automatically maintaining more than one temperature therein simultaneously. 1,683,406; Sept. 4.
Penley, Lester H., Portland, Me. Clothes clip. 1,683,049; Sept. 4.
Penn, Oscar S., Wandsworth Common, London, assignor to Roadless Traction, Limited, Hounslow, Middlesex, England. Endless-track vehicle. 1,683,407; Sept. 4.
Penton, Ivan B. (See Dawson, V. B., and Penton.)
Penzold, Wilhelm, assignor to the firm Widerstand Aktiengesellschaft für Elektro-Wärme-Technik, Hanover, Germany. Electric resistance for electrically-heated boilers. 1,683,050; Sept. 4.
Perdue, John C., Methuen, assignor to Manufacturers' Machine Company, North Andover, Mass. Centrifugal sprinkler. 1,683,259; Sept. 4.
Permex Corporation of America. (See Buckley, Ernest P., assignor.)
Peterson, Erland F., Everett, assignor to The Goudey Gum Company, Boston, Mass. Kneading machine. 1,683,051; Sept. 4.
Peterson, Francis C., Everett, Wash. Rotary pump. 1,683,143; Sept. 4.
Pfeiffer, Adolf, assignor to the firm Elektrizitäts-Gesellschaft "Sanitas" m. b. H., Berlin, Germany. Surgical motor. 1,683,206; Sept. 4.
Phelan, Louis A. M., and C. Hotchkiss, Beloit, Wis. Electrical switching device. 1,683,408; Sept. 4.
Phifer, James S., Allentown, Pa., assignor to The American Steel and Wire Company of New Jersey. Wire-drawing block. 1,683,482; Sept. 4.
Philadelphia Quartz Company. (See Dedrick, Charles H., assignor.)
Philbrin Corporation. (See Brinton, William C., jr., assignor.)
Phillips, Carl L. (See Bourgognion, J. W. M., and Phillips.)
Phillips, Edgar J., et al., executors. (See Kraft, Henry P.)
Philly, Fernand, Pau, France. Loom for manufacturing nonraveling fabrics. 1,683,052; Sept. 4.
Phoenix Glass Company, The. (See McCreary, Thomas W., assignor.)
Picco, John, New York, N. Y. Life-saving apparatus. 1,683,409; Sept. 4.
Picture Transmission Corporation. (See Ferree, M., and Wissmar, assignors.)
Pifer, George N., Cleveland, Ohio, assignor, by mesne assignments, to American Phototure Company, New York, N. Y. Automatic photographing machine. 1,682,931; Sept. 4.
Pine, Percy S., Salina, Kans. Clarifier. 1,683,483; Sept. 4.
Piquerez, Emile, Paris, France, assignor to The Bassick Manufacturing Company, Chicago, Ill. Double-action lubricant compressor. 1,682,932; Sept. 4.
Pisciotta, Carl C., Highland Park, N. J. Windshield wiper. 1,683,053; Sept. 4.
Pitkin, George D., assignor to Lane Manufacturing Company, Montpelier, Vt. Stoneworking machine. 1,683,298; Sept. 4.
Pitkin, George D., assignor to Lane Manufacturing Company, Montpelier, Vt. Worktable. 1,683,299; Sept. 4.
Pittsburgh Plate Glass Company. (See Fox, John H., assignor.)
Pittsburgh Plate Glass Company. (See Golightly, William J., assignor.)
Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
Pittsburgh Train Control Company. (See Williamson, Arba G., assignor.)
Plantinga, Pierre, deceased, Cleveland, Ohio; The Cleveland Trust Company, executor. Control means for gas apparatus. 1,683,372; Sept. 4.
Plymouth Cordage Company. (See Damon, John H., assignor.)
Polk, Thomas B., Seattle, Wash., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Combined windshield visor and wiper motor. 1,683,260; Sept. 4.
Pollak Steel Company, The. (See Paque, Edward J., assignor.)
Poole, Lora E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Apparatus for spreading the riser bars of commutators. 1,683,261; Sept. 4.
Post, Fred G., Kenmore, N. Y. Revolving-grip screw driver and the like. 1,683,484; Sept. 4.
Potts, Peter T., Chicago, Ill., assignor to The Vortex Mfg. Co. Stack of nested containers and packing the same. 1,682,933; Sept. 4.
Pouget, Louis M., Vailleres, France. Apparatus for use in making extracts, infusions, decoctions, and the like. Re17,077; Sept. 4.
Powdrell & Alexander, Inc. (See Kay, Arthur G., assignor.)
Powell, Frank D., assignor to Acme Card System Company, Chicago, Ill. Flexible index strip. 1,683,207; Sept. 4.
Powell, John, Carlton, Victoria, Australia. Pneumatic tire. 1,683,208; Sept. 4.
Protzeller, Harry W., assignor to O. F. Jordan Company, East Chicago, Ind. Car construction. 1,682,981; Sept. 4.
Protzeller, Harry W., assignor to O. F. Jordan Company, East Chicago, Ind. Automatic make-and-break contactor. 1,682,982; Sept. 4.
Pryor, William M., assignor to Southern Manganese Steel Company, St. Louis, Mo. Drag-chain link. 1,682,983; Sept. 4.
Pyles, Robert M., Fullerton, Calif. Rotary jar. 1,683,096; Sept. 4.
Q & C Company. (See Zimmerman, Emil C., assignor.)
Rail Welding and Bonding Company. (See Gruenfeldt, Emil, assignor.)
Rall, Glen J., Oxford, N. C. Combination implement. 1,683,485; Sept. 4.
Ramsay, Ansil S., Troy, Ala. Dirigible headlight. 1,683,300; Sept. 4.
Ramsey, John A. (See Szekely, Otto E., assignor.)
Rancourt, Walter J., Boston, Mass. Skin cleansing and massaging device. 1,683,410; Sept. 4.
Rassow, Horst, Berlin-Wilmersdorf, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Device for synchronizing individually-driven parts at a transmitter and a receiver station. 1,683,301; Sept. 4.
Raynor, Louis L., New Rochelle, assignor, by mesne assignments, to The Hygienol Co. Inc., New York, N. Y. Powder puff. 1,682,984; Sept. 4.
Reading Foundry and Supply Co. (See Bush, Harry K., assignor.)
Reagel, Fred V. (See Copeland, Arch G., assignor.)
Realistic Hair Waving Machine Co. (See Decker, George, assignor.)
Rehfuss, Martin O., Philadelphia, assignor to United States Chain and Forging Company, Pittsburgh, Pa. Chain. 1,683,486; Sept. 4.
Reichel, Alvin S., Matamoras, Pa., assignor to Hayes Mfg. Co., Inc., Port Jervis, N. Y. Motor shears. Re17,075; Sept. 4.
Reliance Company, The. (See Wilms, Gustav O., assignor.)
Remley, Ernest, East Orange, N. J., assignor to Hygienic Fibre Company, Incorporated. First-aid kit. 1,683,487; Sept. 4.
Remmers, Harry C., asignor to H. Goodman, Baltimore, Md. Portable traction device. 1,683,411; Sept. 4.
Renner, Herbert, Philadelphia, Pa., assignor, by mesne assignments, to Chemicolor Wood Preserving Co. Impregnation of wood and the like. 1,683,488; Sept. 4.
Retschy, Curt, assignor to H. Junkers, Dessau, Germany. Oil-feeding device. 1,682,853; Sept. 4.
Reynolds, Frank H., assignor to Eastman Kodak Company, Rochester, N. Y. Camera covering and making same. 1,683,302; Sept. 4.
Reyrolle, A., & Company, Limited. (See Burgess, William A. A., assignor.)
Rice, Cyrus W., Pittsburgh, Pa. Scale and corrosion detector. 1,683,489; Sept. 4.
Richards, Ithiel C., Los Angeles, Calif. Toilet-bowl attachment. 1,682,798; Sept. 4.
Richards, Ithiel C., Los Angeles, Calif. Sanitary cushion apron. 1,682,799; Sept. 4.
Richardson, John F., Pittsburgh, Pa. Brake for motor vehicles. 1,683,097; Sept. 4.
Richardson, Linwood T. (See Layman, F. E., and Richardson.)
Richardson, Linwod T. (See Layman, F. E., Richardson, and Cherry.)
Richardson, Linwood T., New Brunswick, N. J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Synthetic resin and producing the same. 1,682,934; Sept. 4.
Richardson, William H. (See Glover, W. B., and Richardson.)
Richmond, Vincent C., and F. M. Rope, Cardington, England. Construction of airships. 1,683,490; Sept. 4.
Richter, George A., and M. O. Schur, assignors to Brown Company, Berlin, N. H. Chemically treating and washing pulp. 1,683,262; Sept. 4.
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Shutter casing. 1,683,303; Sept. 4.
Ridgway, Carl E., Seattle, Wash. Display device. 1,683,098; Sept. 4.
Rippon, Francis F. C., New York, N. Y. Selector. 1,683,491; Sept. 4.
Ritz Woller, Oliver C., Chicago, Ill. Warning light. 1,682,948; Sept. 4.

Roadless Traction, Limited. (See Penn, Oscar S., assignor.)
Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on blanks. 1,682,800; Sept. 4.
Robertshaw, James E., Bedford, Ohio, assignor to The American Steel and Wire Company of New Jersey. Apparatus for annealing. 1,682,801; Sept. 4.
Robin, John N., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,682,935; Sept. 4.
Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,682,854; Sept. 4.
Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,682,936; Sept. 4.
Rode, Frederich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Sheet-metal press. 1,682,937; Sept. 4.
Roebke, Ernest T., assignor to American Pulverizer Company, St. Louis, Mo. Pulverizing machine. 1,683,304; Sept. 4.
Rollins, Harry T., Des Moines, Iowa. Needle for repairing runs in knitted fabrics. 1,682,985; Sept. 4.
Root, Lemma J., Seattle, Wash. Hydraulic or vacuum clutch. 1,683,054; Sept. 4.
Rope, Frederic M. (See Richmond, V. C., and Rope.)
Rose, Louis P., Arnold, Nebr. Linoleum-vending machine. 1,682,802; Sept. 4.
Rose, William H., Jersey City, N. J. Garment support. 1,682,855; Sept. 4.
Rosenbaum, Lester F., and E. C. Bowers, Kalamazoo, Mich.; said Bowers assignor to said Rosenbaum. Pressing machine. 1,683,412; Sept. 4.
Rosenheimer, Adolph L., jr., assignor to Kewaskum Aluminum Company, Kewaskum, Wis. Waterless cooker. 1,683,305; Sept. 4.
Ross, Edward. (See Ross, William and E.)
Ross, William and E., Brooklyn, N. Y. Jointer. 1,683,273; Sept. 4.
Rostron, Robert, assignor to Crorar, Adams & Co., Chicago, Ill. Track liner. 1,683,099; Sept. 4.
Roto Tray Company. (See Schneider, Gustav E. and A. B., assignors.)
Rouge, Octave, Paris, France. Amusement device. 1,682,803; Sept. 4.
Roux, John A., Tenafly, N. J. Process and apparatus for producing filaments. 1,683,055; Sept. 4.
Roux, John A., Aenafly, N. J. Process and apparatus for producing filaments. 1,683,056; Sept. 4.
Rozowsky, Alfred, Brooklyn, N. Y. Box. 1,683,100; Sept. 4.
Ruben, Samuel, New York, N. Y. Increasing the conductivity of metals. 1,683,209; Sept. 4.
Ruckelshaus, John G., Newark, N. J., assignor, by mesne assignments, to Fantuar Mirror, Inc., New York, N. Y. Display device. 1,683,263; Sept. 4.
Runner, Claude C., Schenectady, N. Y., assignor to General Electric Company, Motor-control apparatus. 1,683,210; Sept. 4.
Rushmore, Samuel W., Plainfield, N. J. Combined engine-cooling and car-heating system. 1,683,101; Sept. 4.
Rushton, James L. (See Hamer, James H., assignor.)
Ruth, C. W., Engineering Company. (See Ruth, Conant W., assignor.)
Ruth, Conant W., assignor to The C. W. Ruth Engineering Company, Chicago, Ill. Multistory garage. 1,683,492; Sept. 4.
Ryan, Charles E., and T. J. Schuetz, Tulsa, Okla. Attachment for motor vehicles. 1,683,306; Sept. 4.
Ryan, Charles E., and T. J. Schuetz, Tulsa, Okla. Attachment in motor vehicles. 1,683,307; Sept. 4.
Ryder, Charles D., Covington, Ky., assignor to The Cincinnati Victor Company, Cincinnati, Ohio. Aeroplane lamp. 1,683,580; Sept. 4.
Ryerson, Joseph T., and Son. (See Conradson, Conrad M., assignor.)
Rymarczick, Lyal B., Los Angeles, Calif. Sound-absorbing surface and producing same. 1,682,986; Sept. 4.
Sacco-Lowell Shops. (See Melchor, James T., assignor.)
Sadler, Samuel S., Springfield Township, Montgomery County, assignor to Amlesite Asphalt Company of America, Philadelphia, Pa. Road composition and making same. 1,683,493; Sept. 4.
St. Joseph Iron Works. (See Schmidtke, Albert H., assignor.)
Salkind, Samuel M., Brooklyn, N. Y. Vehicle jack. 1,682,856; Sept. 4.
Samanski, Lee B. (See Busby, R. B., and Samanski.)
Samstag, Henry R., assignor to Samstag & Hilder Bros., Inc., New York, N. Y. Blank of leather. Des. 76,260; Sept. 4.
Samstag & Hilder Bros., Inc. (See Samstag, Henry R., assignor.)
Sanftleben, Joseph F., assignor to Filtrators Company, Inc., New York, N. Y. Container for extracting apparatus. 1,683,102; Sept. 4.
Santos y Suarez, Isaac, and A. Acosta y Velo, Habana, Cuba. Tracklaying device. 1,683,498; Sept. 4.
Sargent & Company. (See Shaw, John H., assignor.)
Sauvage, Herbert J., assignor to Drying Systems, Inc., Chicago, Ill. Thermostat. 1,683,264; Sept. 4.
Saxon, Hilda M., Bellingham, Wash. Paper cover for toilet seats. 1,682,987; Sept. 4.
Scese, John E., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Brake adjustment. 1,683,057; Sept. 4.
Scheel, Otto E., Detroit, Mich. Concrete burial box. 1,683,265; Sept. 4.
Schidrowitz, Philip, London, assignor to Vultex Limited, Jersey, Channel Islands, England. Manufacture of rubber and the like. 1,682,857; Sept. 4.
Schlaich, Herman, Long Island City, N. Y. Indicating instrument. 1,683,103; Sept. 4.
Schmidtke, Albert H., assignor to St. Joseph Iron Works, St. Joseph, Mich. Apparatus for making baskets and the like. 1,682,769; Sept. 4.
Schmidtke, Albert H., assignor to St. Joseph Iron Works, St. Joseph, Mich. Basket-making machine. 1,682,770; Sept. 4.
Schmiedeskamp, August J. (See Mills, G. B., Schmiedeskamp, and Skinner.)
Schneider, Arthur B. (See Schneider, Gustav E. and A. B.)
Schneider, Gustav E. and A. B., Chicago, Ill., assignors to Roto Tray Company. Smoker's tray. Des. 76,261; Sept. 4.
Schoedinger, F. O. (See Armstrong, Edward R., assignor.)
Schoeller, Walter, Berlin-Westend, and H. G. Allardt, Berlin-Reinickendorf-West, assignors to the firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Auro mercapto carboxylic acid and making same. 1,683,104; Sept. 4.
Schoeller, Walter, Berlin-Westend, and H. G. Allardt, Berlin-Reinickendorf-West, assignors to the firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Metallo mercapto compounds and making same. 1,683,105; Sept. 4.
Schrank, Fred J., Akron, Ohio. Gun sight. 1,683,106; Sept. 4.
Schröder, Hans W. C., assignor to A. B. Dräger, Lubeck, Germany; E. Dräger, née Stange, executrix of said Dräger, deceased. Inhaling apparatus for narcotics. 1,683,144; Sept. 4.
Schuermann, Anton C., deceased. (See Mueller, P., and Schuermann.)
Schuermann, Helena, executrix. (See Mueller, P., and Schuermann.)
Schuetz, Thomas J. (See Ryan, C. E., and Schuetz.)
Schumacher, Conrad. (See Galsman, H. J., and Schumacher.)
Schur, Milton O. (See Richter, G. A., and Schur.)
Schwab, Maurice M. and S. S., Toledo, Ohio. Cleansing-liquid-restoring means. 1,682,939; Sept. 4.
Schwab, Samuel S. (See Schwab, Maurice M. and S. S.)
Schweiker, Roy W., Lansdale, Pa. Lighting fixture. Des. 76,262; Sept. 4.
Scranton, Eugene L., Hughson, Calif. Wooden outlet-box frame. 1,683,308; Sept. 4.
Searight, John R., Birmingham, Mich. Salt shaker. 1,682,804; Sept. 4.
Sederholm, John E., assignor to American Hoist & Derrick Company, St. Paul, Minn. Loud speaker. Des. 76,263; Sept. 4.
Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Arm for wall brackets or the like. Des. 76,264; Sept. 4.
Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,683,413; Sept. 4.
Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,683,414; Sept. 4.
Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,683,415; Sept. 4.
Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,683,416; Sept. 4.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Selden, James M. (See Crabb, Silas F., assignor.)
Selliez, Victor, St.-Ghislain, Belgium. Tunnel kiln for ceramic industry. 1,683,309; Sept. 4.
Selvig, Gustaf A., assignor, by mesne assignments, to Northern Equipment and Supply Company, Minneapolis, Minn. Cover holder. 1,682,805; Sept. 4.
Severns, Clayton, and J. N. Hicks, Los Angeles, Calif. Oil saver. 1,683,107; Sept. 4.
Seyler, Ernest A. (See Austin, John A., assignor.)
Shackleton, William, et al. (See Gartner, John H., assignor.)
Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Concrete-mixing machine. 1,683,417; Sept. 4.
Shanley, Francis. (See Carpenter, W. J., and Shanley.)
Shaw Crane-Putnam Machine Company. (See Gough, A. C., and Charushin, assignors.)
Shaw, John C., assignor to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Electrical operation and control of machine tools. 1,683,581; Sept. 4.
Shaw, John C. and R. D., assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Terminal for conductors. 1,683,418; Sept. 4.
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. 1,682,988; Sept. 4.
Shaw, Robert D. (See Shaw, John C. and R. D.)
Shepard, Morris G. (See Ostromislensky, I., and Shepard.)
Sherman, Clifton W., and J. M. Hall, Hamilton, Ontario, Canada, assignors to Hall Draft Gear Corporation, Buffalo, N. Y. Friction draft gear. 1,682,806; Sept. 4.
Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Manifolding register. 1,682,991; Sept. 4.
Shipman, Lewis H., Boston, Mass. Solar heating apparatus. 1,683,266; Sept. 4.
Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Hinge. 1,682,993; Sept. 4.

Short, Charles R., Dayton, Ohio, and V. Hughes, assignors to General Motors Research Corporation, Detroit, Mich. Differential gearing for motor vehicles. 1,682,871; Sept. 4.
Short, Frank, Poughkeepsie, N. Y., assignor to Chemical Machinery Corporation. Apparatus for the generation and distribution of mercury vapor and sealing means therefor. 1,683,310; Sept. 4.
Short, Stephen T. (See Hoyle, J., and Short.)
Shoudy, Chester P., assignor to Shoudy Manufacturing and Developing Company, Spokane, Wash. Centrifugal casting machine. 1,683,267; Sept. 4.
Shoudy Manufacturing and Developing Company. (See Shoudy, Chester P., assignor.)
Siemens & Halske Aktiengesellschaft. (See Rassow, Horst, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Altenkirch, Edmund, assignor.)
Sikorski, Frank, Bridesburg, Pa. Brush. 1,683,494; Sept. 4.
Siller, Lenhart G., Sacramento, Calif. Sliding and pivoted window. 1,683,419; Sept. 4.
Simmons, Albert H., Wheaton, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric heater. 1,683,211; Sept. 4.
Simms, Frederick R., assignor of one-half to Simms Motor Units Ltd., London, England. Tool or appliance for facilitating the mounting of shaft couplings. 1,683,311; Sept. 4.
Simms Motor Units Ltd. (See Simms, Frederick R., assignor.)
Simon, Aaron, Brooklyn, and L. Yentis, Jackson Heights, N. Y. Cigar lighter or similar article. Des. 76,265; Sept. 4.
Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric controller. 1,682,938; Sept. 4.
Simon, Charles L., Beardsley, Minn. Rope holder. 1,682,994; Sept. 4.
Simplex Player Action Company. (See White, Frank C., assignor.)
Sinclair Refining Company. (See Bell, John E., assignor.)
Sinclair Refining Company. (See Herthel, Eugene C., assignor.)
Sinclair Refining Company. (See Isom, Edward W., assignor.)
Sinclair Refining Company. (See Isom, E. W., and Herthel, assignors.)
Sinning, Henry F., Grundy Center, Iowa. Crank-case-heating device. 1,683,312; Sept. 4.
Sipe, Harry E., New York, N. Y. Bumper and fender guard. 1,682,858; Sept. 4.
Skelly, James D., et al. (See Gartner, John H., assignor.)
Skinner, Henry E. (See Mills, G. B., Schmiedeskamp, and Skinner.)
Skuhe, Mathias J., jr., Seattle, Wash. Fireplace guard. 1,683,420; Sept. 4.
Slonaker, William H., Detroit, Mich. Steam-supply device for electric irons. 1,683,145; Sept. 4.
Small, James H., jr., Cleveland, Ohio. Concrete-pile follower and mounting for same. 1,683,108; Sept. 4.
Smelker, Le Roy, Germantown, Ohio. Automobile seat and the like. 1,682,989; Sept. 4.
Smith, A. O., Corporation. (See Andren, Birger T., assignor.)
Smith, A. O., Corporation. (See Smith, Lloyd R., assignor.)
Smith, Bert H., Horton, Kans. Flexible pipe-sealing means. 1,682,940; Sept. 4.
Smith, Edward C., Lakewood, Ohio, assignor to National Carbon Company, Inc. Dry cell. 1,682,995; Sept. 4.
Smith, Lloyd R., assignor to A. O. Smith Corporation, Milwaukee, Wis. Making pipe couplings. 1,682,996; Sept. 4.
Smith, Oliver P., Chicago, Ill. Toilet set. 1,682,990; Sept. 4.
Smith, Orin L., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing projecting tacks from the interior of boots and shoes. 1,682,807; Sept. 4.
Smith, William E., Milltown, assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J. Hook mounting for pile-wire-controlling mechanism for looms. 1,683,495; Sept. 4.
Smith, Willoughby S., Newton Poppleford, N. W. McLachlan and W. G. R. Jacob, London, England. Telegraphy. 1,682,941; Sept. 4.
Smithson, Arthur. (See Honstain, V. G., and Smithson.)
Snyder, Edward B., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,683,109; Sept. 4.
Societe Anonyme Chantiers & Ateliers Augustin Normand. (See Fenaux, Fernand, assignor.)
Societe des Brevets Etrangers Lefranc & Cie. (See Lefranc, Jacques, assignor.)
Société Industrielle des Applications Chimiques, Société Anonyme. (See Botson, René, assignor.)
Sodergren, John E., Minneapolis, Minn. Screen frame. 1,683,421; Sept. 4.
Soderstrom, Nels J., Burtrum, Minn. Vehicle pole tip. 1,682,859; Sept. 4.
Sorensen, Andrew J., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,682,997; Sept. 4.
Soss, Joseph, Brooklyn, N. Y. Invisible hinge. 1,682,860; Sept. 4.
Southern Manganese Steel Company. (See Pryor, William M., assignor.)
Specialty Manufacturing Company, The. (See Frost, Clinton E., assignor.)
Spinney, Cleveland N., Harrisbur,g Pa., and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Tack-pulling machine. 1,682,808; Sept. 4.
Standard Oil Company. (See Glair, H. F., and Bransky, assignors.)
Star Drilling Machine Company. (See Yeaton, Alton F., assignor.)
Starkey, Lewis P., Fort Collins, Colo., assignor, by mesne assignments, to R. E. Starkey. Vending machine. 1,682,942; Sept. 4.
Starkey, Rose E. (See Starkey, Lewis P., assignor.)
Starr, Jesse W., 3d. (See McAdams, Harry, assignor.)
Staud, Cyril J. (See Gray, H. L., and Staud.)
Sterling Varnish Company, The. (See Barord, Paul J., assignor.)
Stevens, John L., Chandler, Ariz. Signal. 1,683,496; Sept. 4.
Stevens, Leslie, Glen Ridge, N. J., assignor to Stevens Manufacturing Corporation, New York, N. Y. Loud-speaker diaphragm. Des. 76,266; Sept. 4.
Stevens, Leslie, Glen Ridge, N. J., assignor to Stevens Manufacturing Corporation, New York, N. Y. Loud-speaker diaphragm. Des. 76,267; Sept. 4.
Stevens Manufacturing Corporation. (See Stevens, Leslie, assignor.)
Stevenson, James W., Riverside, Calif. Ladder. 1,683,422; Sept. 4.
Stewart Manufacturing Company. (See Stewart, Roy N., assignor.)
Stewart, Roy N., Natick, assignor to Stewart Manufacturing Company, Boston, Mass. Bottle cap. 1,683,313; Sept. 4.
Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sorting machine. 1,682,809; Sept. 4.
Stickney, Burnham C., Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,683,582; Sept. 4.
Stiles, Lorren, Woodbury, N. J. Beater. 1,683,497; Sept. 4.
Stinchfield, Ray L., assignor to Eastman Kodak Company, Rochester, N. Y. Power-driven camera with motor signal. 1,683,314; Sept. 4.
Stinchfield, Ray L., assignor to Eastman Kodak Company, Rocester, N. Y. Making antistatic nitrocellulose films. 1,683,315; Sept. 4.
Stockbower, Mabel Y., Hollis Gardens, N. Y., assignor to Earnshaw Knitting Company, Newton, Mass. Wash cloth. 1,683,110; Sept. 4.
Stover, Paul A., assignor to The Stover Signal Engineering Co., Racine, Wis. Directional signal. Des. 76,268; Sept. 4.
Stover Signal Engineering Co., The. (See Stover, Paul A., assignor.)
Stratford, Frank B., Montclair, N. J. Apparatus for washing fibrous materials. 1,682,861; Sept. 4.
Streeter, Albert B., New York, N. Y. Engine head. 1,683,268; Sept. 4.
Strickland, Frank, Oklahoma City, Okla. Trap nest. 1,683,423; Sept. 4.
Studebaker Corporation, The. (See Hughes, J. R., and Weber, assignors.)
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
Sullivan Printing Works Company, The. (See Sullivan William S., assignor.)
Sullivan, William S., assignor to The Sullivan Printing Works Company, Cincinnati, Ohio. Daily calendar or similar article. Des. 76,269; Sept. 4.
Sulzer Freres Societe Anonyme. (See Kägi, Emil, assignor.)
Summers, Caleb E., assignor to General Motors Research Corporation, Detroit, Mich. Ventilating device for engine crank cases. 1,682,992; Sept. 4.
Summers, Caleb E., assignor to General Motors Research Corporation, Dayton, Ohio. Internal-combustion engine. 1,682,998; Sept. 4.
Sunland Sales Cooperative Association. (See Forrest, Thomas W. W., assignor.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Svensson, Karl J., Lidongo Villastad, and K. A. P. Norling, Sodertorns Villastad, Sweden. Centrifugal separating machine. 1,683,424; Sept. 4.
Swain, Harold S., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. 1,682,810; Sept. 4.
Swenson, Carl O., assignor to Consolidated Steel Strapping Company, Chicago, Ill. Machine for making corrugated fasteners. 1,682,862; Sept. 4.
Swenson, Carl O., assignor to Consolidated Steel Strapping Company, Chicago, Ill. Making corrugated fasteners. 1,682,863; Sept. 4.
Swenson, Carl O., assignor to Consolidated Steel Strapping Company, Chicago, Ill. Machine for making corrugated fasteners. 1,682,864; Sept. 4.

Szekely, Otto E., Molin, Ill., assignor to J. A. Ramsey, St. Louis, Mo. Piston-ring spring. 1,683,169; Sept. 4.
Tandy, Albert W., Los Angeles, Calif. Selling booth. Des. 76,270; Sept. 4.
Taylor, John B. (See Taylor, Marcia E. and J. B.)
Taylor, Marcia E., and J. Taylor, Schenectady, N. Y. Radiation receiving conductor. 1,683,270; Sept. 4.
Teeter, Cyrus O., Denver, Colo. Combined merchandise-display case and advertising signboard. Des. 76,271; Sept. 4.
Tengström, Hans, and K. Bübring, Berlin, Germany, assignors to General Electric Company. Motor-control system. 1,683,212; Sept. 4.
Tenney, Perry L., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Transmission. 1,682,999; Sept. 4.
Te Pas, Edmund J., Lakewood, assignor to The Patrol Valve Company, Cleveland, Ohio. Fluid-fuel-control system. 1,683,213; Sept. 4.
Terry, Arthur L., jr., Wellesley Hills, assignor to W. G. Ogden, Quincy, Mass. Electrical condenser. 1,682,811; Sept. 4.
Thatcher, Linden A., Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,683,425; Sept. 4.
Thelin, Gunnar E. (See Mortenson, O. W., Thelin, and Norrhagen.)
Thoma, Andrew, Cambridge, assignor to North American Chemical Company, Boston, Mass. Shoe-bottom-filling machine. 1,682,865; Sept. 4.
Thomas, Adolph A., New York, N. Y. Electrical instrument of the telephone type. 1,682,866; Sept. 4.
Thomas, August, Berlin-Baumschulenweg, assignor of one-half to C. von Haryes, Berlin, Germany. Shock absorber. 1,683,499; Sept. 4.
Thomas & Betts Co., The. (See Buchanan, Stephen N., assignor.)
Thomas, George F., Berwyn, assignor to The Bassick Manufacturing Company, Chicago, Ill. Filter. 1,682,867; Sept. 4.
Thomas, William M., assignor, by mesne assignments, to W. M. Thomas and F. A. Leonard, Los Angeles, Calif. Apparatus for treating films. 1,682,943; Sept. 4.
Thomas, William M., et al. (See Thomas, William M., assignor.)
Thompson, Eugene C., Los Angeles, Calif. Film-feeding means for cameras. 1,682,812; Sept. 4.
Thompson, Eugene C., Los Angeles, Calif. Camera. 1,682,813; Sept. 4.
Thompson, Gustave R. (See Bergmann, Carl, jr., assignor.)
Thompson, Leroy. (See Foster, Guy T., assignor.)
Thompson, Robert J., Paris, France, and C. Fisher, New York, N. Y. Flowerpot device. 1,683,271; Sept. 4.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. High-frequency induction apparatus. 1,683,146; Sept. 4.
Thordarson, William, New York, N. Y. Emulsifier. 1,683,500; Sept. 4.
Thrasher, Ray H., Ferndale, Mich. Door latch and opener. 1,683,426; Sept. 4.
Tobeler, Max F., Detroit, Mich. Removable stripper appliance. 1,683,501; Sept. 4.
Touché, Jorge S., Monterey, Mex. Manufacturing shoes. 1,682,868; Sept. 4.
Trauger, Guy A., Livermore, Iowa. Remote control for tractors. 1,683,000; Sept. 4.
Trico Products Corporation. (See Polk, Thomas B., assignor.)
Trifelos, George, Canton, Ohio. Candy cooling and packing machine. 1,682,814; Sept. 4.
Tucker, Morton, Philadelphia, Pa. Dustproof hinge. 1,683,272; Sept. 4.
Tunnell, Herbert R., Butte, Mont. Rotary drill bit. 1,683,502; Sept. 4.
Tunstall, William B., Worcester, assignor to E. E. Conway, Boston, Mass., C. C. Conway, Scarboro, N. Y., and T. P. Brown, Worcester, Mass, trustees. Player grand piano. 1,682,869; Sept. 4.
Turner, Howard B., assignor of one-half to J. O. Greene, Mount Sterling, Ky. Decorative belt. 1,683,427; Sept. 4.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in regularly-moving transferrer. 1,683,214; Sept. 4.
Tyden, Emil, Evanston, Ill. Valve construction. 1,683,002; Sept. 4.
Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Metal rolling. 1,683,001; Sept. 4.
Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Rolling sheet metal. 1,683,003; Sept. 4.
Uberto, Henry, New York, N. Y. Aquatic amusement device. 1,683,058; Sept. 4.
Uffert, Walter B., Freeport, N. Y. Automatic shaft lock for automobiles. 1,683,428; Sept. 4.
Uhlman, Walter G. (See Hollar, H., jr., and Uhlman.)
Underwood Elliott Fisher Company. (See Stickney, Burnham C., assignor.)
Underwood Elliott Fisher Company. (See Thatcher, Linden A., assignor.)
Union Draft Gear Company. (See Cotton, Walter H., assignor.)
Union Steel Products Company. (See Bitney, Dewey H., assignor.)
Union Switch & Signal Company, The. (See Failor, Charles W., assignor.)
Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
Union Switch & Signal Company, The. (See Sorensen, Andrew J., assignor.)
United Shoe Machinery Corporation. (See Cavanagh, James, assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United Shoe Machinery Corporation. (See Smith, Orin L., assignor.)
United Shoe Machinery Corporation. (See Spinney, C. N., and Mackenzie, assignors.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United Shoe Machinery Corporation. (See Swain, Harold S., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Chain and Forging Company. (See Rebfuss, Martin O., assignor.)
United States Hoffman Machinery Corporation. (See Page, Herbert E., assignor.)
Universal Metal Mfg. Co. (See McGinnis, Basil W., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Useful Products Company. (See Kingman, Russell B., assignor.)
Van Deventer, Harry R., New York, N. Y., assignor to Dubilier Condenser Corporation. Resistor. 1,683,059; Sept. 4.
Van Gale, Louis, Astoria, N. Y. Lamp socket. 1,682,944; Sept. 4.
Van Heusen, John M., Boston, Mass. Fabric hat and making the same. 1,682,870; Sept. 4.
Van Lith, Edward A. P., Holyoke, Mass. Headlight closure for motor vehicles. 1,683,503; Sept. 4.
Vawter, Charles E., Philadelphia, Pa., assignor to Dubilier Condenser Corporation, New York, N. Y. Resistance device and making same. 1,683,060; Sept. 4.
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Method of and apparatus for handling, storing, and measuring bulk material into batches. 1,682,872; Sept. 4.
Vermont Spool & Bobbin Co. (See Wilson, William H., assignor.)
Vertrees, John J., jr., Nashville, Tenn. Air-vent valve for combustion engines. 1,683,504; Sept. 4.
Victaulic Company. (See Johnson, P. G., and Morgan, assignors.)
Victor, Alexander F., Davenport, Iowa. Camera. 1,682,873; Sept. 4.
Victor Talking Machine Company. (See Buckle, Horace L., T., assignor.)
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Boat. 1,682,815; Sept. 4.
Virginia Table Company. (See Gordon, Lawrence E., assignor.)
Voices Incorporated. (See Handy, Levin G., assignor.)
Voigt, Albert P. J., Galveston, Tex. Machine for husking nuts. 1,683,004; Sept. 4.
Von Haryes, Carl. (See Thomas, August, assignor.)
Von Suchorzynski, Anton, Breslau, Germany. Hearing apparatus. 1,683,316; Sept. 4.
Vortex Mfg. Co., The. (See Potts, Peter T., assignor.)
Vreeland Corporation. (See Vreeland, Frederick K., assignor.)
Vreeland, Frederick K., Montclair, assignor to Vreeland Corporation, Hoboken, N. J. Radiofrequency amplifier. 1,682,874; Sept. 4.
Vreeland, George W., Steubenville, Ohio. Tuyère. 1,682,816; Sept. 4.
Vultex Limited. (See Schidrowitz, Philip, assignor.)
Wagner, H., and Adler Co. (See Drost, Thomas, assignor.)
Waite Carpet Company. (See Brandt, Stella, assignor.)
Wakefield, Richard E. B., Chester, Pa., assignor to Westinghouse Electric and Manufacturing Company. Device for controlling the flow of fluids. 1,683,317; Sept. 4.
Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Separator for warp stop motions. 1,683,215; Sept. 4.
Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Reed adjustment for looms. 1,683,216; Sept. 4.
Walker, Edmund H., New York, N. Y. Draft gear. 1,682,817; Sept. 4.
Walker, Edmund H., New York, N. Y. Draft gear. 1,682,818; Sept. 4.
Walker, Edward, Grantwood, N. J. Plug for cleaning tubes. 1,683,429; Sept. 4.
Walker, Norman S., assignor to The Golfada Company, New York, N. Y. Golf binder. 1,683,505; Sept. 4.
Wallace & Co. (See Gaell, Eugéne, assignor.)
Wanamaker, John, Philadelphia. (See Kratz, Howard L., assignor.)
Wanders, Hans H., Boston, Mass. Spool and the like. 1,683,273; Sept. 4.
Waner, Harry E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Speed-controlling device for continuous-strip-feeding means. 1,683,318; Sept. 4.
Wappler Electric Company. (See Fayer, C., and Wappler, assignors.)

Wappler, Frederick H. (See Fayer, C., and Wappler.)
Ward, James H., jr., assignor to James H. Ward & Son, Inc., Buchanan, Mich. Mail box. 1,683,217; Sept. 4.
Ward, James H., jr., assignor to James H. Ward & Son, Inc., Buchanan, Mich. Mail box. 1,683,218; Sept. 4.
Ward, James H., & Son, Inc. (See Ward, James H., jr., assignor.)
Warren Manufacturing Company, The. (See Bidwell, George L., assignor.)
Washington, Julules, Ravena, N. Y. Hand starter for automobiles. 1,683,111; Sept. 4.
Wasson, Harry C., and L. L. Collins, Franklin, Pa., assignors to Chicago Pneumatic Tool Company, New York, N. Y. Control apparatus for oil engines. 1,682,875; Sept. 4.
Waters, Harry J., San Francisco, Calif. Saxophone. 1,683,219; Sept. 4.
Watson, John W., Wayne, and R. F. Nowalk, assignors to John Warren Watson Company, Philadelphia, Pa. Shock-absorber casing. Des. 76,272; Sept. 4.
Watson, John Warren, Company. (See Watson, J. W., and Nowalk, assignors.)
Wattle, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Cylinder for Knowles heads. 1,683,220; Sept. 4.
Weaver, Joseph W., Lebanon, Pa. Batter and candy measure. 1,683,506; Sept. 4.
Weber, Louis J., Schenectady, N. Y., assignor to General Electric Company. Motor control. 1,683,221; Sept. 4.
Weber, Richard, Dresden-Uebigau, Germany. Producing baskets and other basketwork structures. 1,683,507; Sept. 4.
Weber, Robert, Hayange, Moselle, assignor to Les Petits Fils de François de Wendel & Cie., Paris, France. Gas-supplying apparatus. 1,683,112; Sept. 4.
Weber, William H. (See Hughes, J. R., and Weber.)
Weiner, Edwin M. R., Three Rivers, and F. F. Woods, Battle Creek, Mich. Centrifugal vacuum pump. 1,682,945; Sept. 4.
Weintraud, Alfred, London, England. Cigarette or cigar mouthpiece or holder. 1,683,508; Sept. 4.
Weisse, Hugo C., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Cooling rubber-tire treads. 1,682,876; Sept. 4.
Wescott, Harvey M., Brooklyn, N. Y. Mechanic's level. 1,683,509; Sept. 4.
Westbrook, Moses H. (See Farr, B. J., and Westbrook.)
Westco-Chippewa Pump Company. (See Holmes, Robert E. L., assignor.)
Westerfield, Samuel, New York, N. Y. Electric table lamp. Des. 76,273; Sept. 4.
Westerfield, Samuel, New York, N. Y. Electric table lamp. Des. 76,274; Sept. 4.
Western Electric Company. (See Jorgensen, Edmund N., assignor.)
Western Union Telegraph Company, The. (See Mobius, C. E., and Engler, assignors.)
Westinghouse Electric & Manufacturing Company. (See Foresman, R. A., and Larrabee, assignors.)
Westinghouse Electric & Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Morgan, David W. R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wakefield, Richard E. B., assignor.)
Westman, Adolf, A. J., Montreal, Quebec, Canada. Rotary valve for internal-combustion engines. 1,683,275; Sept. 4.
Wetherbee, Herbert E., assignor of one-third to R. F. Grant and one-third to H. M. Hanna, Cleveland, Ohio. Treating and forming artificial fuels. 1,683,061; Sept. 4.
Wevier Ferdinand P. A., and H. Freed, Philadelphia, Pa. Electrical police signal. 1,683,274; Sept. 4.
Whelan, Howard J., Baltimore, Md. Oyster-opening machine. 1,683,113; Sept. 4.
White, Frank C., Meriden, Conn., assignor, by mesne assignments, to Simplex Player Action Company, Incorporated, New York, N. Y. Adjustable player attachment for pianos. 1,682,877; Sept. 4.
White, John, Edinburgh, Scotland. Driving mechanism for paper and other machines. 1,683,374; Sept. 4.
White Motor Company, The. (See Howell, James W., assignor.)
White, S. S., Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)
Whitman, Stephen F., & Son, Inc. (See Greenwood, George W., assignor.)
Widerstand Aktiengesellschaft für Elektro-Wärme-Technik. (See Penzold, Wilhelm, assignor.)
Wiederhold, Oscar, Philadelphia, Pa. Radiant for heaters and the like. 1,683,375; Sept. 4.
Wiese, Otto C., Newton, Mass. Corset. 1,685,510; Sept. 4.
Wiggins, John H., Bartlesville, Okla. Gas holder. 1,683,005; Sept. 4.
Willi, Frederick D., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Hairpin-box machine. 1,682,810; Sept. 4.
Willi, Frederick D., assignor, by mesne assignments, to S. H. Goldberg, Chicago, Ill. Process and apparatus for nesting partition blanks. 1,682,878; Sept. 4.
Williams, Herbert H. (See Murray, T. E., jr., and Williams.)
Williams, Joseph A., and A. G. Karkau, assignors to The K-W Ignition Corporation, Cleveland, Ohio. Ignition apparatus. 1,683,376; Sept. 4.
Williams, William E. (See Blair, O. M., and Williams.)
Williamson, Arba G., Carnegie, asignor to Pittsburgh Train Control Company, Pittsburgh, Pa. Track-circuit system. 1,683,222; Sept. 4.
Williamson, Charles D., Fort Worth, Tex. Bib construction for overalls. 1,683,511; Sept. 4.
Williamson, Edwin O., assignor to The Eastern Machine Screw Corporation, New Haven, Conn. Thread-correcting device. 1,683,114; Sept. 4.
Wilms, Gustav O., assignor to The Reliance Company, Milwaukee, Wis. Switch-box cover. Des. 76,275; Sept. 4.
Wilson, Charles E., and H. Huenerkopf, Bridgeport, Conn., assignors to General Electric Company. Metal-tubing machine. 1,683,223; Sept. 4.
Wilson, Charles H., Pelham, N. Y. Water barrier for windows and the like. 1,683,377; Sept. 4.
Wilson, William G., West New Brighton, N. Y. Lead-pipe seal. 1,682,879; Sept. 4.
Wilson, William H., assignor to Vermont Spool & Bobbin Co., Burlington, Vt. Spool for Axminster looms. 1,683,224; Sept. 4.
Wine, William E., Toledo, Ohio. Car-door-locking device. 1,682,946; Sept. 4.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel press. 1,683,115; Sept. 4.
Wire Mold Company, The. (See Frederickson, Otto A., assignor.)
Wire, Wesley M., Newberg, Oreg. Chain-pull double-socket lamp plug. 1,682,947; Sept. 4.
Wired Radio, Inc. (See Davis, Thomas M., assignor.)
Wired Radio, Inc. (See Gebhard, Louis A., assignor.)
Wired Radio, Inc. (See Mirick, Carlos B., assignor.)
Wired Radio, Inc. (See Mirick, C. B., and Crossley, assignors.)
Wired Radio, Inc. (See Young, Leo C., assignor.)
Wisbauer, Howard, Buffalo, N. Y. Rope clip. 1,683,512; Sept. 4.
Wissmar, Joseph. (See Ferree, M., and Wissmar.)
Wolf, Philippe, Paris, France. Washing apparatus for coals. 1,682,820; Sept. 4.
Wolf, Thomas, Union City, N. J. Reclining couch. 1,683,513; Sept. 4.
Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lamp. Des. 76,276; Sept. 4.
Wood, Glendon T., Philadelphia, Pa. Carton. 1,683,116; Sept. 4.
Woods, Charles L., Alton, Ill. Boat. 1,683,276; Sept. 4.
Woods, Floyd F. (See Weiner, E. M. R., and Woods.)
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,682,821; Sept. 4.
Worcester Electric Supply Company. (See Parent, Joseph V., assignor.)
Wright, Edward A., Fresno, Calif. Bathtub attachment. 1,683,430; Sept. 4.
Wyatt, Joseph W., Redcar, England. Electric-lamp holder. 1,683,514; Sept. 4.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling apparatus. 1,683,225; Sept. 4.
Yeaton, Alton F., assignor to The Star Drilling Machine Company, Akron, Ohio. Drilling machine. 1,683,006; Sept. 4.
Yentis, Louis. (See Simon, A., and Yentis.)
Yngve, Victor, Lakewood, Ohio. Making bleach liquor as by-product in salt purification. 1,683,431; Sept. 4.
Yoas, Harvey L., Du Bois, Pa. Advertising device. 1,683,117; Sept. 4.
Young, L. A., Industries, Inc. (See Ziler, Corban H., assignor.)
Young, Leo C., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Radio telegraph keying system. 1,683,118; Sept. 4.
Youngstown Steel Door Company, The. (See Hendricks, Harold H., assignor.)
Ziegler, Charles E., Pittsburgh, Pa. Umbilical clamp tool. 1,683,119; Sept. 4.
Ziemmerman, Henry, assignor to Chicago Cardboard Company, Chicago, Ill. Folding-shelf display card. 1,683,007; Sept. 4.
Ziler, Corban H., Carthage, Mo., assignor to L. A. Young Industries, Inc., Detroit, Mich. Wire-spring-making machine. 1,682,949; Sept. 4.
Zimmerman, Emil C., assignor to Q & C Company, New York, N. Y. Insulated rail joint. 1,683,432; Sept. 4.
Zimmerman, Harry C., Washington, D. C. Brake mechanism. 1,683,515; Sept. 4.
Zottoli, Frank M., Boston, Mass. Tidewater system. 1,683,277; Sept. 4.
Zuck, Nicholas, Rochester, N. Y. Garment construction. 1,683,226; Sept. 4.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF SEPTEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrasive scouring device, Metallic. R. B. Kingman. 1,683,357; Sept. 4.
Acid and making same, Auro mercapto carboxylic. W. Schoeller, and H. G. Allardt. 1,683,104; Sept. 4.
Adding machines and the like, Collating equipment for. R. L. Muller. 1,682,765; Sept. 4.
Advertising and display device. H. Broadley. 1,682,884; Sept. 4.
Advertising device. H. L. Yoas. 1,683,117; Sept. 4.
Agricultural implement, Universal. J. E. Boda. 1,683,018–19; Sept. 4.
Air and electric brake, Combination. M. Beck. 1,682,824; Sept. 4.
Aircraft, Pressure, temperature, and volume indicating and controlling means for. C. S. Hall. 1,682,961; Sept. 4.
Aircraft, Undercarriage or landing gear for. J. de la Cierva. 1,682,894; Sept. 4.
Aircraft with rotative wings. J. de la Cierva. 1,682,893; Sept. 4.
Airships, Construction of. V. C. Richmond. 1,683,490; Sept. 4.
Album, Phonograph-record. M. Nystrom. 1,683,479; Sept. 4.
Amplifier. A. W. Hull. 1,683,134; Sept. 4.
Amplifier of electrical currents. E. H. Loftin. 1,683,083; Sept. 4.
Amplifier, Radiofrequency. F. K. Vreeland. 1,682,874; Sept. 4.
Amusement device. O. Rouge. 1,682,803; Sept. 4.
Amusement device, Aquatic. H. Uberto. 1,683,058; Sept. 4.
Anchorage, Airship. W. Auberlin. 1,683,323; Sept. 4.
Animal trap, Automatic. A. M. Haymaker. 1,683,181; Sept. 4.
Annealing, Apparatus for. J. E. Robertshaw. 1,682,801; Sept. 4.
Anvil and gauge, Saw-setting. C. Eyrich. 1,683,174; Sept. 4.
Apron, Sanitary cushion. I. C. Richards. 1,682,799; Sept. 4.
Automobile battery. D. Cohelan. 1,683,529; Sept. 4.
Automobile body. J. Ledwinka. Des. 76,247; Sept. 4.
Automobile body front. J. Ledwinka. Des. 76,249; Sept. 4.
Automobile body side. J. Ledwinka. Des. 76,248; Sept. 4.
Automobile lifter. L. T. Biegler. 1,683,020; Sept. 4.
Automobile, Trick. J. D. Mohr. 1,682,764; Sept. 4.
Automobiles, Hand starter for. J. Washington. 1,683,111; Sept. 4.
Axle Housings, Forming. T. E. Murray, jr. 1,683,047; Sept. 4.
Bag: *See*—
Clothespin bag.
Bag lock, Mail-. A. E. Low. 1,683,294; Sept. 4.
Baking device, Potato-. R. D. Kenyon. 1,683,554; Sept. 4.
Bar-bending machine. S. Macomber. 1,683,366; Sept. 4.
Barrel-making machine. C. G. Grotnes. 1,683,248; Sept. 4.
Basket-making machine. A. H. Schmidtke. 1,682,770; Sept. 4.
Baskets and other basketwork structures, Producing. R. Weber. 1,683,507; Sept. 4.
Baskets and the like, Apparatus for making. A. H. Schmidtke. 1,682,769; Sept. 4.
Bathtub attachment. E. A. Wright. 1,683,430; Sept. 4.
Battery: *See*—
Automobile battery.
Beam, Steel walking. L. J. Black. 1,682,883; Sept. 4.
Bean-sniping machine. Q. Climer. 1,683,024; Sept. 4.
Bearing, Antifriction. S. B. Haseltine. 1,683,462; Sept. 4.
Bearing, Main-rod. J. Kindervater. 1,682,969; Sept. 4.
Bearing puller. J. W. Howell. 1,683,188–9; Sept. 4.
Bearing, Shaft. H. T. Herr. 1,683,351; Sept. 4.
Beater. L. Stiles. 1,683,497; Sept. 4.
Beating engine. J. D. Haskell. 1,683,546; Sept. 4.
Beds, Folding twin. C. E. Ball. 1,683,149; Sept. 4.
Belt, Decorative. H. B. Turner. 1,683,427; Sept. 4.
Bench standard. A. J. Miller. Des. 76,254; Sept. 4.
Binder, Temporary. A. J. Cardoza. 1,683,238; Sept. 4.
Bit: *See*—
Drill bit.
Block: *See*—
Building block. Wire-drawing block.
Block for cement sewer pipes, Liner. R. M. Dallam. 1,683,025; Sept. 4.
Blower. G. B. Linderman, jr. 1,683,474; Sept. 4.
Boat. C. L. Woods. 1,683,276; Sept. 4.
Boat. J. G. Vincent. 1,682,815; Sept. 4.
Boat, Toy. L. Lyman. Des. 76,250; Sept. 4.
Boiler. T. E. Murray. 1,683,046; Sept. 4.
Boot or shoe. W. L. Hill. 1,683,465; Sept. 4.
Bootee. J. Meltzer. Des. 76,253; Sept. 4.
Booth, Selling. A. W. Tandy. Des. 76,270; Sept. 4.
Bottle. P. A. Ginter. Des. 76,231-2; Sept. 4.
Bottle cap. R. N. Stewart. 1,683,313; Sept. 4.
Bottles, Catch drop for. J. Faulhaber. 1,683,176; Sept. 4.
Box: *See*—
Burial box. Mail box.
Fire box. Miter box.
Box. E. Gsell. Des. 76,236; Sept. 4.
Box. J. G. Huye. 1,683,192; Sept. 4.
Box. A. Rozowsky. 1,683,100; Sept. 4.
Box frame, Wooden outlet-. E. L. Scranton. 1,683,308; Sept. 4.
Box machine, Hairpin. F. D. Willi. 1,682,819; Sept. 4.
Bowl or similar article, Fish. T. W. McCreary. Des. 76,252; Sept. 4.
Brace: *See*—
Rail brace.
Brackets or the like, Arm for wall. A. P. Seidell. Des. 76,264; Sept. 4.
Brake: *See*—
Air and electric brake. Vehicle brake.
Hand brake.
Brake adjustment. J. E. Seese. 1,683,057; Sept. 4.
Brake for motor vehicles. J. F. Richardson. 1,683,097; Sept. 4.
Brake for railway cars, Hand. S. B. Haseltine. 1,683,461; Sept. 4.
Brake mechanism. H. C. Zimmermann. 1,683,515; Sept. 4.
Brake rod. W. S. Adams. 1,683,516; Sept. 4.
Briquetting. P. C. Mulligan. 1,683,094; Sept. 4.
Brush. E. L. H. Cosby. 1,683,530; Sept. 4.
Brush. C. E. Frost. 1,683,456; Sept. 4.
Brush. O. T. Hazzard. Des. 76,238; Sept. 4.
Brush. F. Sikorski. 1,683,494; Sept. 4.
Brush, Gin. H. Beaver. 1,682,950; Sept. 4.
Brush, Single-service. C. J. Francola, sr. 1,683,538; Sept. 4.
Bucket, Gasoline. P. Mueller. 1,683,571; Sept. 4.
Buckle, Harness. F. E. Burrall. Des. 76,230; Sept. 4.
Buffer for motor vehicles, Spring. W. B. Glover and W. H. Richardson. 1,683,541; Sept. 4.
Building block, Hollow clay-tile. E. G. Bone. 1,683,441; Sept. 4.
Bulk materials into batches, Method of and apparatus for handling, storing, and measuring. W. M. Venable. 1,682,872; Sept. 4.
Bumper and fender guard. H. E. Sipe. 1,682,858; Sept. 4.
Bumper, Safety. H. M. Bowman. 1,683,283; Sept. 4.
Bumpers, Clamp plate for vehicle. H. S. Jandus and J. R. Morgan. Des. 76,243–4; Sept. 4.
Burial box, Concrete. O. E. Scheel. 1,683,265; Sept. 4.
Burner: *See*—
Gas burner.
Button. W. A. Ormsbee. Des. 76,256; Sept. 4.
Button, Separable. J. E. Butler. 1,682,771; Sept. 4.
Cabinet and automatically maintaining more than one temperature therein simultaneously, Ice-cream. J. G. Peck. 1,683,406; Sept. 4.
Cable connecter. S. N. Buchanan. 1,682,738; Sept. 4.
Cable hanger. J. Blackburn. 1,682,737; Sept. 4.
Calendar or similar article, Daily. W. S. Sullivan. Des. 76,239; Sept. 4.
Calendar, Poultry-record. W. G. Kohl. 1,683,140; Sept. 4.
Camera. E. C. Thompson. 1,682,813; Sept. 4.
Camera. A. F. Victor. 1,682,873; Sept. 4.
Camera covering and making same. F. H. Reynolds. 1,683,302; Sept. 4.
Camera with motor signal, Power-driven. R. L. Stinchfield. 1,683,314; Sept. 4.
Cameras, Film-feeding means for. E. C. Thompson. 1,682,812; Sept. 4.
Candy package. G. W. Greenwood. 1,683,542; Sept. 4.
Cap or closure and liner plate, Combined. C. Hammer. 1,683,387; Sept. 4.
Capsule. J. A. Horigan. 1,683,466; Sept. 4.
Car, Cable. C. E. Mobius and W. N. Engler. 1,683,578; Sept. 4.

Car construction. W. A. Geiger. 1,683,386; Sept. 4.
Car construction. H. W. Protzeller. 1,682,981; Sept. 4.
Car device, mail-. W. R. Hole. 1,683,547; Sept. 4.
Carburetor. J. C. Coulombe. 1,683,576; Sept. 4.
Carburetor. T. Linga. 1,682,761; Sept. 4.
Carburetors, Inlet mechanism for. A. Mijares. 1,683,477; Sept. 4.
Card, Folding-self display. H. Ziemmerman. 1,683,007; Sept. 4.
Carrying case, Wheeled. N. Fanger. 1,683,029; Sept. 4.
Carton. G. T. Wood. 1,683,116; Sept. 4.
Carton, Mailing and display. W. L. Hardy. 1,682,963; Sept. 4.
Case: *See*—
Carrying case. Vanity case.
Piano case.
Cashier's protector. L. N. Beaudry. 1,682,881; Sept. 4.
Casing, Shock-absorber. J. W. Watson and R. F. Nowalk. Des. 76,272; Sept. 4.
Casing, Shutter. W. A. Riddell. 1,683,303; Sept. 4.
Casting machine, Centrifugal. C. P. Shoudy. 1,683,267; Sept. 4.
Casting, Process and apparatus for. N. Littell. 1,683,475; Sept. 4.
Catalytic apparatus. A. O. Jaeger. 1,682,787; Sept. 4.
Cell, Dry. E. C. Smith. 1,682,995; Sept. 4.
Centrifugal sprinkler. J. C. Perdue. 1,683,259; Sept. 4.
Chain. M. O. Rehfuss. 1,683,486; Sept. 4.
Chain link, Drag-. W. M. Pyor. 1,682,983; Sept. 4.
Chair: *See*—
Folding chair.
Chair back or similar article. L. E. Gordon. Des. 76,234; Sept. 4.
Chair or settee, Leg of a. C. Bauer. Des. 76,216; Sept. 4.
Check protector, Characterized. H. R. Fields. 1,682,779; Sept. 4.
Chimney cleaner. C. R. Bickford. 1,683,379; Sept. 4.
Chloroform-soluble cellulose acetate, Making. H. L. Gray and C. J. Staud. 1,683,347; Sept. 4.
Circuit arrangement for high-frequency systems with frequency amplification. M. Osnos. 1,682,768; Sept. 4.
Circuit system, Track. A. G. Williamson. 1,683,222; Sept. 4.
Clamp and reservoir, Pen. R. F. George. 1,683,030; Sept. 4.
Clamping device. J. F. Loucks. 1,683,364; Sept. 4.
Clarifier. P. S. Pine. 1,683,483; Sept. 4.
Cleaner: *See*—
Chimney cleaner.
Cleaning device for false teeth. H. G. Hall. 1,683,458; Sept. 4.
Cleaning system, Automobile. R. B. Busby and L. B. Samanski. 1,682,830; Sept. 4.
Cleansing-liquid-restoring means. M. M. and S. S. Schwab. 1,682,939; Sept. 4.
Clip: *See*—
Clothes clip. Rope clip.
Closure and sealing means, Can. W. Horlick, jr. 1,683,034; Sept. 4.
Closure for paper bags, End. L. J. Finn and P. E. Morrill. 1,682,839; Sept. 4.
Closure means for inflatable hollow rubber bodies. I. and L. Dorogi. 1,682,836; Sept. 4.
Closure, Tank. O. Evinrude. 1,683,338; Sept. 4.
Cloth, Wash. M. Y. Stockbower. 1,683,110; Sept. 4.
Clothes clip. L. H. Penley. 1,683,049; Sept. 4.
Clothespin bag. J. Hatcher. 1,683,032; Sept. 4.
Clutch, Hydraulic or vacuum. L. J. Root. 1,683,054; Sept. 4.
Clutch mechanism for reversing gear. J. C. Carlton. 1,683,528; Sept. 4.
Clutch mechanism, specially suitable for use in telegraphic apparatus. F. G. Creed. 1,682,889; Sept. 4.
Coated materials, Conditioning. G. D. Harris. 1,682,752; Sept. 4.
Coating apparatus. P. J. Barord. 1,682,823; Sept. 4.
Coating to the inside of paint buckets, Method and apparatus for applying. F. W. A. Hallerman. 1,682,751; Sept. 4.
Code machine, Electric. E. H. Hebern. 1,683,072; Sept. 4.
Coin-controlled mechanism. C. Lea. 1,683,361; Sept. 4.
Collar, Garment. S. Cagan and W. S. Nead. 1,682,831; Sept. 4.
Collodion coating composition. W. H. Gardner. 1,682,957; Sept. 4.
Commodity control. H. R. Brand. 1,682,827; Sept. 4.
Compact-plate-holding ring. W. G. Kendall. 1,683,552; Sept. 4.
Compounds and making same, Metallo mercapto. W. Schoeller and H. G. Allardt. 1,683,105; Sept. 4.
Compressor. C. L. Heisler. 1,683,182; Sept. 4.
Compressor. E. Kägi. 1,683,390; Sept. 4.
Compressor, Double-action lubricant. E. Piquerez. 1,682,932; Sept. 4.
Compressor, Lubricant. J. N. Robin. 1,682,935; Sept. 4.
Concrete forms, Retaining means for. S. S. Colt. 1,682,740; Sept. 4.
Concrete-pile follower and mounting the same. J. H. Small, jr. 1,683,108; Sept. 4.
Concrete-road machine. E. G. Carr. 1,683,382; Sept. 4.
Condenser. D. W. R. Morgan. 1,683,393; Sept. 4.
Condenser, Electrical. A. L. Terry, jr. 1,682,811; Sept. 4.
Condenser, Variable. F. A. Kolster. 1,683,558; Sept. 4.
Conduit fitting. H. A. Selah. 1,683,413–16; Sept. 4.
Cone speaker. W. E. Gibbs. 1,683,178; Sept. 4.
Connecter for spring brakes. M. Harris. 1,682,786; Sept. 4.
Contact maker and interrupter. W. C. Brinton, jr. 1,683,444; Sept. 4.
Contactor, Automatic make-and-break. H. W. Protzeller. 1,682,982; Sept. 4.
Container and dispenser, Nail. O. Breithaupt. 1,683,328; Sept. 4.
Container, Candy. J. Paull and A. A. Miller. Des. 76,259; Sept. 4.
Container for extracting apparatus. J. F. Sanftleben. 1,683,102; Sept. 4.
Container, Pluricelled. H. A. Feigelman. 1,682,838; Sept. 4.
Container with preserving, flavoring, and condiment liquids, Filling. P. Cutler. 1,683,241; Sept. 4.
Containers and packing the same, Stack of nested. P. T. Potts. 1,682,933; Sept. 4.
Control apparatus, Motor-. C. C. Runner. 1,683,210; Sept. 4.
Control device, Fluid-pressure-. J. C. Moody and L. F. Hoffman. 1,682,848; Sept. 4.
Control mechanism, Bumper-actuated. J. A. Austin. 1,682,731; Sept. 4.
Control method and apparatus. T. Appleby. 1,683,012; Sept. 4.
Control system, Fluid-fuel-. E. J. Te Pas. 1,683,213; Sept. 4.
Control, System of. E. Falcke and K. Lehmann. 1,683,175; Sept. 4.
Controller handle. W. W. Brown. 1,683,157; Sept. 4.
Controlling apparatus. J. T. Janette. 1,682,789; Sept. 4.
Controlling apparatus. C. W. Wyman. 1,683,225; Sept. 4.
Controlling business, Mechanism and method for. H. R. Brand. 1,682,828; Sept. 4.
Controlling the flow of fluids, Device for. R. E. B. Wakefield. 1,683,317; Sept. 4.
Cooker, Waterless. A. L. Rosenheimer, jr. 1,683,305; Sept. 4.
Cooler: *See*—
Water cooler.
Cooling and car-heating system, Combined engine. S. W. Rushmore. 1,683,101; Sept. 4.
Cooling and packing machine, Candy. G. Trifelos. 1,682,814; Sept. 4.
Cooling rubber-tire treads. H. C. Weisse. 1,682,876; Sept. 4.
Corn cutter. A. H. Krogan. 1,683,042; Sept. 4.
Corona-preventing apparatus. J. Biermanns. 1,683,152; Sept. 4.
Corset. O. C. Wiese. 1,683,510; Sept. 4.
Couch, Reclining. T. Wolf. 1,683,513; Sept. 4.
Coupling: *See*—
Pipe coupling. Train-pipe coupling.
Shaft coupling.
Couplings, Making pipe. L. R. Smith. 1,682,996; Sept. 4.
Cover clamp, Card-table-. J. R. Burn. Des. 76,229; Sept. 4.
Cover for an electrical switch box. O. A. Bronson. Des. 76,227; Sept. 4.
Cover for toilet seats, Paper. H. M. Saxon. 1,682,987; Sept. 4.
Cover, Street-manhole. H. and W. J. Loudenslager. 1,683,365; Sept. 4.
Cover, Switch-box. G. O. Wilms. Des. 76,275; Sept. 4.
Coveralls. H. C. Hanson. 1,682,785; Sept. 4.
Covering, Head. H. T. Blum. 1,683,233; Sept. 4.
Crane, Ladle. H. M. Lane. 1,683,472; Sept. 4.
Crystal apparatus, Piezo-electric. C. B. Mirick and A. Crossley. 1,683,093; Sept. 4.
Crystal holder, Piezo-electric. C. B. Mirick. 1,683,091–2; Sept. 4.
Cue rack or the like. T. Drost. 1,683,533; Sept. 4.
Cultivating implement. M. Oakland. 1,683,395; Sept. 4.
Cultivator. R. Aarvig. 1,683,008; Sept. 4.
Cultivators, Rake attachment for. J. Hoyle and S. T. Short 1,682,967; Sept 4.
Cutter: *See*—
Corn cutter. Rotary cutter.
Lens cutter.
Cylinder for Knowles heads. W. M. Wattle. 1,683,220; Sept. 4.
Cylinder-head construction. A. M. Niven. 1,682,928; Sept. 4.
Decorating transparent surfaces. G. C. Ashley. 1,683,282; Sept. 4.
Dental drilling apparatus. T. Gythfeldt. 1,682,784; Sept. 4.
Dental manikin. R. L. Hanau. 1,682,904; Sept. 4.
Depilatory substances, Preparing. R. Botson. 1,683,442; Sept. 4.
Detector, Valve-leak and puncture. E. P. Offemaria. 1,683,095; Sept. 4.
Die head, Self-opening. A. F. Breitenstein. 1,683,126; Sept. 4.
Directional signal. P. A. Stover. Des. 76,268; Sept. 4.
Dish, Soap. W. J. Mix. 1,683,566; Sept. 4.
Discharge device, Electron-. W. A. MacDonald. 1,683,202; Sept. 4.
Disintegrator. W. M. Duncan. 1,683,244; Sept. 4.
Dispensing apparatus, Oil-. G. A. Brown. 1,683,021; Sept. 4.
Display case and advertising signboard, Combined merchandise-. C. O. Teeter. Des. 76,271; Sept. 4.
Display device. G. Hornecker. 1,682,758; Sept. 4.

Display device. C. E. Ridgway. 1,683,098; Sept. 4.
Display device. J. G. Ruckelshaus. 1,683,263; Sept. 4.
Display device for tires and the like. J. E. Ferguson and H. L. Mooney. 1,682,745; Sept. 4.
Displaying device for coffin lids, Flower-. W. R. Campbell. 1,683,526; Sept. 4.
Distillation of crude petroleum. E. W. Isom and E. C. Herthel. 1,683,193; Sept. 4.
Doll. I. Cohn. 1,682,832; Sept. 4.
Doll. R. C. Letson. 1,683,561; Sept. 4.
Domino. T. C. Graham. Des. 76,235; Sept. 4.
Door-control equipment, Car-. G. Macloskie and C. A. Ives. 1,683,142; Sept. 4.
Door-operating mechanism. H. H. Henricks. 1,683,464; Sept. 4.
Door, Sliding swing. J. Cahill. 1,682,772; Sept. 4.
Drill: *See*—
Upright drill.
Drill bit, Rotary. H. R. Tunnell. 1,683,502; Sept. 4.
Drilling machine. A. G. Copeland. 1,682,955; Sept. 4.
Drilling machine, A. F. Yeaton. 1,683,006; Sept. 4.
Drip attachment, Cup-. E. S. Packard. 1,683,205; Sept. 4.
Dumb-waiter, Electrically-controlled. J. G. Maclaren. 1,683,391; Sept. 4.
Dumping body. F. Biszantz. 1,682,882; Sept. 4.
Dustpan and the like. M. E. Bentley. 1,683,517; Sept. 4.
Dyestuffs of the phenonaphthosafranine series, Manufacture of acid. P. Laeuger. 1,683,559; Sept. 4.
Easel. A. W. Engel. 1,682,837; Sept. 4.
Electric conductor and making same. J. V. Capicotto. 1,683,064; Sept. 4.
Electric discharge device. H. D. Brown. 1,683,156; Sept. 4.
Electric heater. A. H. Simmons. 1,683,211; Sept. 4.
Electric metal-stock heater. E. S. Jefferies. 1,682,968; Sept. 4.
Electric switch. C. I. Hall. 1,683,132; Sept. 4.
Electrical connecter. S. Cohen. 1,683,066; Sept. 4.
Electrical contact. J. T. Janette. 1,682,790; Sept. 4.
Electrical controller. A. Simon. 1,682,938; Sept. 4.
Electrical distribution system. A. E. Anderson. 1,683,147; Sept. 4.
Electrical distribution system. A. E. Anderson. 1,683,227; Sept. 4.
Electrical instrument of the telephone type. A. A. Thomas. 1,682,866; Sept. 4.
Electrical switching device. L. A. M. Phelan and C. Hotchkiss. 1,683,408; Sept. 4.
Electrical system. C. B. Mirick. 1,683,090; Sept. 4.
Electrode and molding the same, Carbon. V. C. Doerschuk. 1,683,587; Sept. 4.
Electrodes in hot high-pressure rooms, Fluid-level indicator and leading-in arrangement for. S. Löffler. 1,683,362; Sept. 4.
Electrolytic rectifier. H. C. Kremers. 1,682,846; Sept. 4
Electromagnetic device. W. P. Crockett. 1,683,450; Sept. 4.
Elevator: *See*—
Portable elevator.
Emulsifier. W. Thordarson. 1,683,500; Sept. 4.
Engine: *See*—
Heating engine. Oil engine.
Internal-combustion engine.
Engine. R. K. Jack. 1,683,039; Sept. 4.
Engine head. A. B. Streeter. 1,683,268; Sept. 4.
Engine of the rotary-cylinder type, Explosive. D. F. Asbury. 1,683,229; Sept. 4.
Engine-starting apparatus. R. P. Lansing. 1,682,971; Sept. 4.
Engines, Control apparatus for oil. H. C. Wasson and L. L. Collins. 1,682,875; Sept. 4.
Engines, Starter drive for internal-combustion. J. C. Coulombe. 1,683,165; Sept. 4.
Envelope. G. F. Hogan. 1,683,584; Sept. 4.
Envelope, Key. W. H. Hollar, jr., and W. G. Uhlman. 1,682,755; Sept. 4.
Erythrene, Manufacture of. A. T. Maximoff. 1,682,919; Sept. 4.
Excavator. B. C. Clutter. 1,682,774; Sept. 4.
Extinguisher, Fire. C. W. Dake. 1,682,833; Sept. 4.
Extraction of butyric acid and its homologues. J. Lefranc. 1,683,198; Sept. 4.
Extracts, Infusions, decoctions, and the like, Apparatus for use in making. L. M. Pouget. Re17,077; Sept. 4.
Fabric grip. T. G. Brady and C. Nelkin. 1,683,125; Sept. 4.
Farming apparatus, Power. H. A. Bechtelheimer and H. P. Corbin. 1,683,017; Sept. 4.
Fastener, Bag. W. C. Hiering. 1,683,074; Sept. 4.
Fastener for safety calk webs. M. I. Karn. 1,683,041; Sept. 4.
Fasteners, Making corrugated. C. O. Swenson. 1,682,863; Sept. 4.
Faucet, Receptacle-actuated. W. J. Mix. 1,683,565; Sept. 4.
Feed regulator. D. Geddes. 1,682,958; Sept. 4.
Feeding device, Oil-. C. Retschy. 1,682,853; Sept. 4.
Feeding mechanism, Sheet-. W. M. Kelly. 1,683,195; Sept. 4.
Filaments, Process and apparatus for producing. J. A. Roux. 1,683,055–6; Sept. 4.
Filling apparatus, Barrel-. W. Ernest and E. H. Baer. 1,683,337; Sept. 4.
Film, Making antistatic nitrocellulose. R. L. Stinchfield. 1,683,315; Sept. 4.
Filter. G. F. Thomas. 1,682,867; Sept. 4.
Filter element. D. F. Fesler. 1,682,879; Sept. 4.
Fire box, Locomotive-boiler. C. G. Hawley. 1,682,964; Sept. 4.
Fire escape. W. Kautz. 1,683,138; Sept. 4.
Fireplace guard. M. J. Skube, jr. 1,683,420; Sept. 4.
Fireplace, Removable. J. Kertes. 1,683,079; Sept. 4.
Fitting, Water-closet. C. C. Campus. 1,683,036; Sept. 4.
Fixture-body switch. H. J. Morey. 1,682,849; Sept. 4.
Flame shield. R. C. Angell. Des. 76,215; Sept. 4.
Floor mold, Concrete. W. S. Haldeman, 1,682,750; Sept. 4.
Flowerpot device. R. J. Thompson, and C. Fisher. 1,683,271; Sept. 4.
Fly screen. T. Mills. 1,683,204; Sept. 4.
Folding chair. S. E. Bouharoun. 1,683,327; Sept. 4.
Folding chair. E. Derwish. 1,683,532; Sept. 4.
Folding table. H. L. Haskell. 1,682,754; Sept. 4.
Folding table. L. B. Page, and J. C. Emerson. 1,683,579; Sept. 4.
Forging. B. T. Andren. 1,683,011; Sept. 4.
Forming and handling clay pots, Apparatus for. W. J. Golightly. 1,683,245; Sept. 4.
Forming drawn articles. J. E. Batie. 1,683,437; Sept. 4.
Frame: *See*—
Box frame. Lamp-shade frame.
Knitting frame. Screen frame.
Freezer, Ice-cream. B. W. McGinnis. 1,682,976; Sept. 4.
Fuel. Method and apparatus for control of the burning of liquid. E. H. Peabody. 1,683,371; Sept. 4.
Gaiter for use on suspension springs. H. Lord. 1,683,363; Sept. 4.
Game. M. Alland. 1,682,822; Sept. 4.
Game apparatus. C. A. Hewett. 1,683,185; Sept. 4.
Game apparatus. G. B. Mills, A. J. Schmiedeskamp, and H. E. Skinner. 1,682,926; Sept. 4.
Game, Card. J. W. Donovan. 1,683,026; Sept. 4.
Garage, Multistory. C. W. Ruth. 1,683,492; Sept. 4.
Garment construction. N. Zuck. 1,683,226; Sept. 4.
Garter, Roll. L. F. Keyser. 1,682,912; Sept. 4.
Gas apparatus, Control means for. P. Plantinga. 1,683,372; Sept. 4.
Gas burner. S. E. Diescher. 1,683,128; Sept. 4.
Gas generator. C. W. Botsford. 1,683,155; Sept. 4.
Gas holder. J. H. Wiggins. 1,683,005; Sept. 4.
Gas-supplying apparatus. R. Weber. 1,683,112; Sept. 4.
Gases, Using high-tension electric arcs for treatment of. E. Edwin. 1,683,534; Sept. 4.
Gauge: *See*—
Liquid gauge. Tank gauge.
Pressure gauge.
Gear, Draft. W. H. Cotton. 1,683,164; Sept. 4.
Gear, Draft. E. H. Walker. 1,682,817–18; Sept. 4.
Gear for locomotives, Power reverse. W. A. Craig. 1,682,888; Sept. 4.
Gear, Friction draft. C. W. Sherman and J. M. Hall. 1,682,806; Sept. 4.
Gearing for motor vehicles, Differential. C. R. Short and N. Hughes. 1,682,871; Sept. 4.
Gearing, Precision worm. S. I. Cone. 1,683,163; Sept. 4.
Generating motive fluid. H. Maxim. 1,683,085; Sept. 4.
Generation and distribution of mercury vapor and sealing means therefor, Apparatus for the. F. Short. 1,683,310; Sept. 4.
Generator: *See*—
Gas generator.
Generators, Circulating system for steam. S. F. Crabb. 1,682,776; Sept. 4.
Golf blinder. N. S. Walker. 1,683,505; Sept. 4.
Golf club. C. J. Jahant. Re17,076; Sept. 4.
Governor for electric motors. M. Ferree and J. Wissmar. 1,683,536; Sept. 4.
Grinder, Double-wheel. E. J. Paque. 1,683,048; Sept. 4.
Grinding-machine attachment. V. G. Honstain and A. Smithson. 1,683,354; Sept. 4.
Grinding machines, Work-feeding device for. J. Miller, jr. 1,682,925; Sept. 4.
Gripping and pulling implement. V. B. Dawson and I. B. Penton. 1,682,956; Sept. 4.
Grooving plastic material. J. W. Heltzel. 1,683,292; Sept. 4.
Guard, Dust. W. F. Cremean. 1,683,449; Sept. 4.
Guard for sheep shears, Hand. H. Kocourek. 1,682,759; Sept. 4.
Gun, Arrow-shooting. J. R. Murphy. 1,683,574; Sept. 4.
Gun sight. F. J. Schrank. 1,683,106; Sept. 4.
Gutter joint. J. W. Foerch, jr. 1,682,840; Sept. 4.
Hairspring-adjustment retainer. R. E. Amidon. 1,683,009; Sept. 4.
Hair-waving outfit. G. Decker. 1,683,531; Sept. 4.
Hand brake. J. F. O'Connor. 1,683,396; Sept. 4.
Handle: *See*—
Controller handle.
Handle construction for electric vacuum cleaners and the like. H. T. Lang. 1,683,197; Sept. 4.
Hanger: *See*—
Cable hanger.
Harvester, Seed. J. Herr. 1,683,183; Sept. 4.
Hat and making the same, Fabric. J. M. van Heusen. 1,682,870; Sept. 4.
Headlight closure for motor vehicles. E. A. P. van Lith. 1,683,503; Sept. 4.

Headlight, Dirigible. A. S. Ramsay. 1,683,300; Sept. 4.
Headlight-shifting mechanism. H. M. Knisley, C. A. Creswell, and H. F. Messer. 1,683,556; Sept. 4.
Hearing apparatus. A. von Suchorzynski. 1,683,316; Sept. 4.
Heat-exchanging apparatus. C. F. Braun. 1,683,236; Sept. 4.
Heated air or gas, Apparatus for supplying a current of. V. Elkington. 1,683,028; Sept. 4.
Heater: *See*—
Electric heater. Wave heater.
Electric metal-stock heater.
Heater. I. Caprin. 1,683,527; Sept. 4.
Heater. L. S. Lawson. 1,683,082; Sept. 4.
Heater and operating same, Liquid-conductor. M. W. Hanks. 1,683,070; Sept. 4.
Heater and operating same, Liquid-conductor. M. W. Hanks and M. Mason. 1,683,071; Sept. 4.
Heater device, Liquid-conductor. M. W. Hanks and M. Mason. 1,683,069; Sept. 4.
Heating apparatus, Solar. L. H. Shipman. 1,683,266; Sept. 4.
Heating buildings. E. Altenkirch. 1,683,434; Sept. 4.
Heating device, Crank-case-. H. F. Sinning. 1,683,312; Sept. 4.
Heating system, Electric. L. A. Kempton. 1,683,196; Sept. 4.
Heel press. E. E. Winkley. 1,683,115; Sept. 4.
Hinge. C. R. Short. 1,682,993; Sept. 4.
Hinge, Dustproof. M. Tucker. 1,683,272; Sept. 4.
Hinge, Invisible. J. Soss. 1,682,860; Sept. 4.
Hoisting mechanism. E. C. Healy. 1,683,463; Sept. 4.
Holder, Cover-. G. A. Selvig. 1,682,805; Sept. 4.
Holder, Electric-lamp. J. W. Wyatt. 1,683,514; Sept. 4.
Holder for talking machines, Record. P. D. Bodwell and H. W. Bellows. 1,683,440; Sept. 4.
Holder for talking machine, Record. W. K. Kauffman. 1,683,469; Sept. 4.
Holder, Golf-bag. E. A. De Noya. 1,683,169; Sept. 4.
Holder, Material. K. E. Anderson. 1,683,279; Sept. 4.
Holder, Rope. C. L. Simon. 1,682,994; Sept. 4.
Holder, Shade. M. Lucklesch, H. C. Doane, and A. Miller. 1,682,918; Sept. 4.
Holder, Work and tool. W. J. McConnell. 1,683,253; Sept. 4.
Holding glass plates upon grinding and polishing tables, Apparatus for. H. K. Hitchcock. 1,683,250. Sept. 4.
Hosiery. O. W. Burkett. Des. 76,288; Aug. 21.
Husking nuts, Machine for A. P. J. Voight. 1,683,004; Sept. 4.
Hut, Demountable. G. Bulbeck. 1,683,022; Sept. 4.
Hydrocarbons, Apparatus for cracking. E. C. Harthel. 1,683,184; Sept. 4.
Hydrometer. L. Edelmann. 1,683,452; Sept. 4.
Hygrostat. G. R. Lawrence. 1,682,915; Sept. 4.
Ignition apparatus. W. A. Chryst. 1,683,239; Sept. 4.
Ignition apparatus. J. A. Williams and A. G. Karkau. 1,683,376; Sept. 4.
Ignition system. J. H. Hunt. Re17,074; Sept. 4.
Implement, Combination. G. J. Rall. 1,683,485; Sept. 4.
Implement, Tillage. R. E. Dunham. 1,682,896; Sept. 4.
Improving mineral oils. F. W. Eley. 1,683,288; Sept. 4.
Index strip, Flexible. F. D. Powell. 1,683,207; Sept. 4.
Index, Visible. C. M. Conger. 1,683,447; Sept. 4.
Indexing. R. A. Jonas. 1,683,468; Sept. 4.
Indexing mechanism. E. W. Bullock and G. H. Bryan. 1,683,524; Sept. 4.
Indicating instrument. H. Schleich. 1,683,103; Sept. 4.
Indicator: *See*—
Pressure indicator. Water-level indicator.
Street and station indicator.
Indicator for memory checking devices. R. B. Kingman. 1,683,358; Sept. 4.
Inducing and increasing the flow of wells, Method of and apparatus for. C. Ochs and B. Hildebrand. 1,682,929; Sept. 4.
Induction apparatus, High-frequency. E. Thomson. 1,683,146; Sept. 4.
Inhaling apparatus for narcotics. H. W. C. Schröder. 1,683,144; Sept. 4.
Inner tube, Self-healing. W. Fetter. 1,683,454; Sept. 4.
Interconversion of reciprocating and rotary motion, Mechanism for the. A. G. M. Michell. 1,682,924; Sept. 4.
Internal-combustion engine. A. Moorhouse. 1,682,793; Sept. 4.
Internal-combustion engine. C. E. Summers. 1,682,998; Sept. 4.
Internal-combustion engine. L. M. Woolson. 1,682,821; Sept. 4.
Iron and making same, Cast. A. F. Meehan. 1,683,086–7; Sept. 4.
Irons, Steam-supply device for electric. W. H. Slonaker. 1,683,145; Sept. 4.
Ironing table. J. G. Haugh. 1,683,291; Sept. 4.
Jack: *See*—
Vehicle jack.
Jacking device for vehicle beds. G. Jaeger. 1,682,910; Sept. 4.
Jar: *See*—
Rotary jar.
Jewelry, Article of. R. A. Harris. 1,683,545; Sept. 4.
Joint: *See*—
Gutter joint. Rail joint.
Jointer. W. and E. Ross. 1,683,378; Sept. 4.
Kiln for ceramic industry, Tunnel. V. Sellier. 1,683,309; Sept. 4.
Kit, First-aid. E. Remley. 1,683,487; Sept. 4.
Kneading machine. E. F. Peterson. 1,683,051; Sept. 4.
Knife, Reversible loom dobby. J. W. Giles. 1,683,179; Sept. 4.
Knitting frame, Straight-. W. Heinitz. 1,682,965; Sept. 4.
Knitting machine. J. F. Maloney. 1,683,586; Sept. 4.
Knitting machine, Circular-. H. McAdams. 1,683,203; Sept. 4.
Knitting machines, Striping attachment for. A. Gagné. 1,683,540; Sept. 4.
Ladder. J. W. Stevenson. 1,683,422; Sept. 4.
Lamp. D. Di Carlo. 1,683,170; Sept. 4.
Lamp. H. H. Wolter. Des. 76,276; Sept. 4.
Lamp, Aeroplane. C. D. Ryder. 1,683,580; Sept. 4.
Lamp, Electric-arc. I. J. Lavoisier. 1,682,847; Sept. 4.
Lamp, Electric incandescent. S. L. Lebby. 1,682,916; Sept. 4.
Lamp, Electric table. S. Westerfield. Des. 76,273–4; Sept. 4.
Lamp-shade frame. A. Lustig. 1,683,585; Sept. 4.
Lantern, Electric. W. S. Hamm. 1,683,348; Sept. 4.
Latch and opener, Door. R. H. Thrasher. 1,683,426; Sept. 4.
Latching mechanism. A. L. Kerr. 1,683,553; Sept. 4.
Lathe, Selective geared head. C. M. Conradson. 1,683,448; Sept. 4.
Leaf for a bank deposit book. R. F. Ontcault, jr. Des. 76,257; Sept. 4.
Leather, Blank of. H. R. Samstag. Des. 76,260; Sept. 4.
Lens cutter. A. E. Maynard. 1,683,295; Sept. 4.
Level, Carpenter's. W. L. Myers. 1,683,256; Sept. 4.
Level, Mechanic's. H. M. Wescott. 1,683,509; Sept. 4.
Lever. V. Bendix. 1,683,378; Sept. 4.
Lid and manufacturing the same, Ice-cream-cabinet. H. D. Geyer. 1,683,345; Sept. 4.
Life-saving apparatus. J. Picco. 1,683,409; Sept. 4.
Lifter: *See*—
Automobile lifter. Pan lifter.
Light: *See*—
Manicuring light. Warning light.
Light for automobiles, Reversible. H. Lenfers. 1,683,141; Sept. 4.
Light impulses into enlarged graphic representations, Method of and apparatus for converting. C. F. Jenkins. 1,683,137; Sept. 4.
Light impulses into graphic representations, Method of and apparatus for converting. C. F. Jenkins. 1,683,136; Sept. 4.
Lighter. L. de Goll. 1,682,892; Sept. 4.
Lighter or similar article, Cigar. A. Simon and L. Yentis. Des. 76,265; Sept. 4.
Lighting fixture. R. W. Schweiker. Des. 76,262; Sept. 4.
Lighting-fixture globe or similar article. R. V. Owen. Des. 76,258; Sept. 4.
Line marker for roadbeds. L. F. N. Baldwin. 1,683,121; Sept. 4.
Links, Making drag. V. Hughes. 1,683,035; Sept. 4.
Liquid gauge. G. J. Huntley. 1,683,191; Sept. 4.
Liquor as by-product in salt purification, Making bleach. V. Yngve. 1,683,431; Sept. 4.
Lock: *See*—
Bag lock.
Lock. J. H. Shaw. 1,682,988; Sept. 4.
Lock for automobiles, Automatic shaft. W. B. Uffert. 1,683,428; Sept. 4.
Lock for drop-box looms, Automatic box. J. D. Groves. 1,683,543; Sept. 4.
Lock for hypodermic needles and the like. G. N. Hein. 1,683,350; Sept. 4.
Locking device, Car-door-. W. E. Wine. 1,682,946; Sept. 4.
Locomotive booster device. W. F. J. Casey and G. Cavin. 1,683,286; Sept. 4.
Locomotive structure. G. T. Foster. 1,683,455; Sept. 4.
Loom, Circular. O. A. Frederickson. 1,683,385; Sept. 4.
Loom feeler mechanism. P. F. O'Brien. 1,683,369; Sept. 4.
Loom for manufacturing nonraveling fabrics. F. Philly. 1,683,052; Sept. 4.
Loom reed, Adjustable. E. R. Holmes. 1,683,187; Sept. 4.
Looms, Dobby for. J. T. Malloy. 1,682,791; Sept. 4.
Looms, Hook mounting for pile-wire-controlling mechanism for. W. E. Smith. 1,683,495; Sept. 4.
Looms, Lay motion for. W. H. Baker. 1,683,324; Sept. 4.
Looms, Reed adjustment for. W. H. Wakefield. 1,683,216; Sept. 4.
Looms, Spool for Axminster. W. H. Wilson. 1,683,224; Sept. 4.
Loud speaker. J. E. Sederholm. Des. 76,263; Sept. 4.
Loud-speaker diaphragm. L. Stevens. Des. 76,266–7; Sept. 4.
Lubricating means. J. L. Creveling. 1,682,890; Sept. 4.
Lubricating system. D. F. Fesler. 1,682,898; Sept. 4.
Lug cap and liner plate, Combined. C. Hammer. 1,683,388; Sept. 4.
Machine for distributing fertilizer, seeds, and grain. R. Bergerioux. 1,682,825; Sept. 4.
Machine for making corrugated fasteners. C. O. Swenson. 1,682,862; Sept. 4.

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Machine for manufacturing wooden spoons. J. Lewis. 1,682,917; Sept. 4.
Machine for operating on blanks. W. T. B. Roberts. 1,682,800; Sept. 4.
Machine for operating on shoes. H. S. Swain. 1,682,810; Sept. 4.
Machine for planing suction boxes. H. M. Ostertag. 1,682,980; Sept. 4.
Machine for removing projecting tacks from the interior of boots and shoes. O. L. Smith. 1,682,807; Sept. 4.
Machine for rolling wheel disks. E. A. Nelson. 1,683,368; Sept. 4.
Machine for spinning and winding filaments. K. Meyer-Gaus. 1,682,763; Sept. 4.
Machines, Driving mechanism for paper and other. J. White. 1,683,374; Sept. 4.
Mail box. J. H. Ward, jr. 1,683,217–18; Sept. 4.
Mandrel, Expanding. S. Cunningham. 1,683,167; Sept. 4.
Mandrel or punch, Pipe-bending. P. Mueller and A. C. Schuermann. 1,683,573; Sept. 4.
Mandrel, Pipe-bending. P. Mueller and A. C. Schuermann. 1,683,572; Sept. 4.
Manicuring light. C. L. McMurdie. 1,683,476; Sept. 4.
Manifold, Intake. H. W. Aslre. 1,683,281; Sept. 4.
Manifolding register. J. Q. Sherman and A. W. Metzner. 1,682,991; Sept. 4.
Marker, Grave. A. S. McCaskey. Des. 76,251; Sept. 4.
Material and making same, Artificial. L. Lilienfeld. 1,683,200; Sept. 4.
Measure, Batter and candy. J. W. Weaver. 1,683,506; Sept. 4.
Merchandiser, Accessory. G. A. Burandt and A. W. Nordgren. 1,683,525; Sept. 4.
Metal, Apparatus for drawing. C. Bergmann, jr. 1,683,123; Sept. 4.
Metal rolling. J. B. Tytus. 1,683,001; Sept. 4.
Metal, Rolling sheet. J. B. Tytus. 1,683,003; Sept. 4.
Metal-tempering apparatus. H. J. Gaisman and C. Schumacher. 1,683,129; Sept. 4.
Metal-tubing machine. C. E. Wilson and H. Huenerkopf. 1,683,223; Sept. 4.
Metals, Increasing the conductivity of. S. Ruben. 1,683,209; Sept. 4.
Minerals, Selective flotation of. B. S. Morrow and E. Klepetko. 1,683,569; Sept. 4.
Mining and loading apparatus. E. C. Morgan. 1,683,045; Sept. 4.
Mining machine. E. O'Toole. 1,683,297; Sept. 4.
Miter box. H. M. Hartway. 1,683,460; Sept. 4.
Mixer. R. Knapp. 1,682,970; Sept. 4.
Mixing machine, Concrete-. S. Shafer, jr. 1,683,417; Sept. 4.
Mold: *See*—
Floor mold.
Molding, Metal. R. J. Gits. 1,683,346; Sept. 4.
Molding plastic bodies. F. E. Layman, L. T. Richardson, and O. A. Cherry. 1,682,914; Sept. 4.
Monosulphides, Manufacture of thiuram. A. T. Maximoff. 1,682,920; Sept. 4.
Mop, Scrubbing. E. P. Jones. 1,683,549; Sept. 4.
Motor: *See*—
Surgical motor.
Motor and pump. J. T. Janette. 1,682,788; Sept. 4.
Motor control. L. J. Weber. 1,683,221; Sept. 4.
Motor-control system. H. Tengström and K. Bühring. 1,683,212; Sept. 4.
Motor shears. A. S. Reichel. Re17,075; Sept. 4.
Mount for drawing tables and the like. E. J. Brasseur. 1,683,443; Sept. 4.
Mouthpiece or holder, Cigarette or cigar. A. Weintraud. 1,683,508; Sept. 4.
Muffler. R. J. MacKenzie and L. L. Haas. 1,683,084; Sept. 4.
Napkin fold. P. J. Christman. 1,683,335; Sept. 4.
Necktie retainer. J. C. Betts. 1,682,952; Sept. 4.
Needle for repairing runs in knitted fabrics. H. T. Rollins. 1,682,985; Sept. 4.
Nesting partition blanks, Process and apparatus for. F. D. Willi. 1,682,878; Sept. 4.
Nipple, Bottle. R. T. Griffiths. 1,683,246; Sept. 4.
Nut, Cap. E. A. Nelson. Des. 76,255; Sept. 4.
Oil engine, Working. H. Junkers. 1,683,040; Sept. 4.
Oil, Process and apparatus for cracking. G. Egloff. 1,682,742; Sept. 4.
Oil Saver. C. Severns, and J. N. Hicks. 1,683,107; Sept. 4.
Oil separator. R. C. Hopkins. 1,682,757; Sept. 4.
Oil shale, Halogen treatment of. G. Egloff. 1,682,743; Sept. 4.
Oiling device for drive chains. N. C. Bremer. 1,682,829; Sept. 4.
Oscillations for use with suspension leaf springs and the like, Damping. F. L. Broussouse. 1,683,522; Sept. 4.
Oscillator, Piezo-electric crystal-controlled. L. A. Gebhard. 1,683,130; Sept. 4.
Oven, Vacuum. P. E. Klopsteg. 1,683,359; Sept. 4.
Overalls, Bib construction for. C. D. Williamson. 1,683,511; Sept. 4.
Overshoe. E. S. Bott and A. S. Funk. Des. 76,218; Sept. 4.
Oyster-opening machine. H. J. Whelan. 1,683,113; Sept. 4.
Packing device for valve stems. A. C. Lindbloom. 1,683,293; Sept. 4.
Pan lifter. V. D. Hughey, O. R. Mullins and L. M. Hughey. 1,683,190; Sept. 4.
Paper, Coated. F. W. Farrell. 1,683,453; Sept. 4.
Paper, Method and apparatus for making multiply. G. L. Bidwell. 1,682,826; Sept. 4.
Paralleling mechanism. G. M. Hollenback. 1,683,353; Sept. 4.
Pattern: *See*—
Sole pattern.
Pencil. C. W. Boman and C. Kaiser. 1,683,235; Sept. 4.
Petroleum, Distillation of. E. W. Isom. 1,683,135; Sept. 4.
Petroleum, Fractional distillation of. J. E. Bell. 1,683,150; Sept. 4.
Petroleum oil, Process and apparatus for treating. G. Egloff. 1,682,744; Sept. 4.
Petroleum oils, Method and apparatus for distilling. J. E. Bell. 1,683,151; Sept. 4.
Photo-composing machine. A. T. Koppe. 1,682,845; Sept. 4.
Photographic plates, films, and the like for indirect three-color photography, Production of. E. A. Lage. 1,683,560; Sept. 4.
Photographing machine, Automatic. G. N. Pifer. 1,682,931; Sept. 4.
Piano case. J. J. Opelt. 1,682,767; Sept. 4.
Piano, Player grand. W. B. Tunstall. 1,682,869; Sept. 4.
Pianos, Adjustable player attachment for. F. C. White. 1,682,877; Sept. 4.
Pincushion. E. L. Harrison. 76,237; Sept. 4.
Pipe collar. R. A. Hughey. 1,683,548; Sept. 4.
Pipe, conduit, or culvert unit, Sectional. C. L. Hansen. 1,683,544; Sept. 4.
Pipe coupling, Automatic train-. J. Robinson. 1,682,936; Sept. 4.
Pipe-sealing means, Flexible. B. H. Smith. 1,682,940; Sept. 4.
Piston, Compressor. H. J. Berry. 1,682,736; Sept. 4.
Piston ring. S. J. Cocks and R. E. Browning. 1,682,886; Sept. 4.
Piston-ring spring. O. E. Szekely. 1,683,269; Sept. 4.
Piston ring, Two-piece. E. C. Newton. 1,682,850; Sept. 4.
Piston, Self-expanding. J. A. Brockmeyer. 1,683,380; Sept. 4.
Plug, Chain-pull double-socket lamp. W. M. Wire. 1,682,947; Sept. 4.
Plug, Connecting. L. G. Pacent. 1,683,370; Sept. 4.
Plug for cleaning tubes. E. Walker. 1,683,429; Sept. 4.
Plug for pipe joints, Metal. E. R. Dearing. 1,682,741; Sept. 4.
Plumber's trap. F. D. Blauvelt. Des. 76,217; Sept. 4.
Plumbing device. T. P. Cummings. 1,683,336; Sept. 4.
Police signal, Electrical. F. P. A. Weyler and H. Freed. 1,683,274; Sept. 4.
Portable elevator. H. S. Germond, jr. 1,683,457; Sept. 4.
Powder puff. L. L. Raynor. 1,682,984; Sept. 4.
Press: *See*—
Heel press. Tie press.
Sheet-metal press.
Press ductor mechanism, Printing-. J. R. Blaine. 1,683,243; Sept. 4.
Press for clothes, Steam. W. S. Hadaway, jr. 1,682,903; Sept. 4.
Pressing machine. L. F. Rosenbaum and E. C. Bowers. 1,683,412; Sept. 4.
Pressing machine, Garment-. H. E. Page. 1,682,852; Sept. 4.
Pressure gauge. H. P. Kraft. 1,683,471; Sept. 4.
Pressure indicator, Tire-. J. H. Gartner. 1,683,343; Sept. 4.
Pressure mechanism for roll stands. W. A. Carpenter. 1,683,583; Sept. 4.
Priming device. H. H. Bridge. 1,682,953; Sept. 4.
Printing mechanism, Late-news and color. J. J. Halliwell. 1,683,133; Sept. 4.
Printing mechanism, Motion-picture-. F. E. Oiler. 1,682,979; Sept. 4.
Printing or embossing machine. S. O'Hara. 1,682,978; Sept. 4.
Printing plates, Core member for casting. I. E. Huribut. 1,683,356; Sept. 4.
Printing-press chase. R. McCahan. 1,682,762; Sept. 4.
Protecting wool and fur from moths. E. Meckbach. 1,682,975; Sept. 4.
Protector, Plant. R. A. Miller. 1,683,043; Sept. 4.
Puller: *See*—
Bearing puller.
Pulley attachment. C. Mackert. 1,683,562; Sept. 4.
Pulley attachment. L. F. Nielsen. 1,682,927; Sept. 4.
Pulverizing machine. E. T. Roebke. 1,683,304; Sept. 4.
Pump and the like, Rotary. J. H. Hamer. 1,682,842; Sept. 4.
Pump casing, Rotary-. R. B. L. Holmes. 1,682,756; Sept. 4.
Pump, Centrifugal vacuum. E. M. R. Weiner and F. F. Woods. 1,682,945; Sept. 4.
Pump, Rotary. F. C. Peterson. 1,683,143; Sept. 4.
Pump, Rotary liquid. J. M. Anderson. 1,683,010; Sept. 4.
Pump, Tandem-barrel well. M. T. Archer. 1,683,435; Sept. 4.
Puzzle. F. L. Babcock. 1,683,014; Sept. 4.
Quartering and thirding attachment. A. C. Gough and V. Charushin. 1,683,290; Sept. 4.
Radiant for heaters and the like. O. Wiederhold. 1,683,375; Sept. 4.
Radiation receiving conductor. M. E. Taylor and J. B. Taylor. 1,683,270; Sept. 4.

Radiator cap. J. R. Hughes and W. H. Weber. Des. 76,242; Sept. 4.
Radiator cap. W. B. Jarvis. 1,683,038; Sept. 4.
Radiator cap. W. G. Newton. 1,682,766; Sept. 4.
Radiator core. J. M. Fedders. 1,683,340; Sept. 4.
Radiator shutters, Device for controlling. W. A. Allen. 1,683,433; Sept. 4.
Radiators and the like, Closure for. G. L. Chapel. 1,683,383; Sept. 4.
Radiochassis. P. E. Edelman. 1,682,778; Sept. 4.
Radio receiving system. F. A. Kolster. 1,683,080; Sept. 4.
Radio telegraph keying system. L. C. Young. 1,683,118; Sept. 4.
Rail brace. W. W. Coleman. 1,682,887; Sept. 4.
Rail joint, Insulated. E. C. Zimmerman. 1,683,432; Sept. 4.
Rails, Fishplate for railway. E. Gruenfeldt. 1,682,960; Sept. 4.
Railroad crosstie. C. L. Arnold. 1,683,013; Sept. 4.
Raising water, Apparatus for. C. Anderson. 1,683,321; Sept. 4.
Rake. A. Morgan. 1,682,795; Sept. 4.
Razor, Ribbon safety. W. G. Moore. 1,682,794; Sept. 4.
Reatomizing device. R. F. Mills. 1,683,089; Sept. 4.
Reboring or refinishing cylinders, Machine for. B. J. Farr and M. H. Westbrook. 1,683,339; Sept. 4.
Receptacle. W. E. J. Crossby and J. Mellor. 1,683,166; Sept. 4.
Receptacle or container and making the same, Paper. F. T. Nicholson. 1,682,977; Sept. 4.
Record composition, Sound-. F. E. Layman and L. T. Richardson. 1,682,913; Sept. 4.
Recuperator. R. C. Hopkins. 1,683,577; Sept. 4.
Refining oil. H. F. Glair and O. E. Bransky. 1,683,289; Sept. 4.
Refrigerators, Cooling tank for. C. J. Berthel. 1,683,518; Sept. 4.
Register: *See*—
Manifolding register.
Regulating system. F. A. Byles. 1,683,161; Sept. 4.
Regulating system for thermionic devices. W. K. Kearsley. 1,683,194; Sept. 4.
Regulator: *See*—
Feed regulator. Vibrating regulator.
Relay, Electrical. R. M. Gilson. 1,682,749; Sept. 4.
Resilient wheel. J. H. Fletcher. 1,682,899; Sept. 4.
Resin and making same, Soluble and fusible white acetone. C. Ellis. 1,683,535; Sept. 4.
Resin and producing the same, Synthetic. L. T. Richardson. 1,682,934; Sept. 4.
Resistance device and making same. C. E. Vawter. 1,683,060; Sept. 4.
Resistance for electrically-heated boilers, Electric. W. Penzold. 1,683,050; Sept. 4.
Resistance, Grid-leak. W. Dubilier. 1,683,067; Sept. 4.
Resistance switch, Variable. J. L. Arthur. 1,683,280; Sept. 4.
Resistor. H. R. Van Deventer. 1,683,059; Sept. 4.
Reversing mechanism. C. M. F. Friden. 1,682,901; Sept. 4.
Ring: *See*—
Compact-plate-holding ring. Piston ring.
Road composition and making same. S. S. Sadtler. 1,683,493; Sept. 4.
Rod: *See*—
Brake rod.
Roofing strip. E. L. Bell and O. M. Beebe. 1,683,016; Sept 4.
Rose clip. H. Wisbauer. 1,683,512; Sept. 4.
Rotary cutter, Hot-tool. F. E. Frick. 1,682,900; Sept. 4.
Rotary jar. R. M. Pyles. 1,683,096; Sept. 4.
Rubber and the like, Manufacture of. P. Schidrowitz. 1,682,857; Sept. 4.
Rubber goods from rubber dispersions, and direct production of. P. Klein. 1,683,588; Sept. 4.
Rug. S. Brandt. Des. 76,225–6; Sept. 4.
Rule, Plumb. W. J. Carpenter and F. Shanley. 1,683,065; Sept. 4.
Rule, Roof-framing. G. P. Billings. 1,683,438; Sept. 4.
Salts of organic compounds possessing acid character, Production of soluble. M. Buchner. 1,683,159; Sept. 4.
Saxophone. H. J. Waters. 1,683,219; Sept. 4.
Scale and corrosion detector. C. W. Rice. 1,683,489; Sept. 4.
Score device. E. Deister, jr. 1,683,242; Sept. 4.
Screen: *See*—
Fly screen.
Screen for a room, Folding. H. L. Kratz. Des. 76,246; Sept. 4.
Screen frame. J. E. Sodergren. 1,683,421; Sept. 4.
Screw driver and the like, Revolving-grip. F. G. Post. 1,683,484; Sept. 4.
Seal and apparatus, Vacuum. O. Minton. 1,683,254; Sept. 4.
Seal, Closure. C. W. Barbour, and L. S. Carson. 1,683,015; Sept. 4.
Seal, Lead-pipe. W. G. Wilson. 1,682,879; Sept. 4.
Seat: *See*—
Window seat.
Seat and the like, Automobile. L. Smelker. 1,682,989; Sept. 4.
Seed and grain distributor. R. Bergerioux. 1,682,735; Sept. 4.
Seed-celling apples, Method of and apparatus for. J. W. Pease. 1,683,481; Sept. 4.
Selector. F. F. C. Rippon. 1,683,491; Sept. 4.
Semaphore and the like for automobiles. J. Beeby. 1,682,951; Sept. 4.
Separating machine, Centrifugal. K. J. Svensson and K. A. P. Norling. 1,683,424; Sept. 4.
Separator: *See*—
Oil separator.
Separator for warp stop motions. W. H. Wakefield. 1,683,215; Sept. 4.
Sewing-machine attachment. A. G. Kay. 1,683,078; Sept. 4.
Shackle, Spring. R. H. Chilton. 1,683,330–4; Sept. 4.
Shaft coupling. J. M. Dillon. 1,682,895; Sept. 4.
Shaker mechanism in agricultural devices. J. T. Ashton. 1,682,733; Sept. 4.
Shaker, Salt. J. R. Seabright. 1,682,804; Sept. 4.
Shears: *See*—
Motor shears.
Sheet-metal press. F. J. Rode. 1,682,937; Sept. 4.
Shelf, Adjustable mantel. R. A. Dambach. 1,683,168; Sept. 4.
Shelf support, Adjustable. E. R. Armstrong. 1,683,228; Sept. 4.
Shield, Sun. J. D. Hies. 1,683,186; Sept. 4.
Shingle, Composition roofing. N. Z. Butterick. 1,683,285; Sept. 4.
Shingle-simulating elements, Apparatus for producing individual-. O. D. McFarland. 1,682,921; Sept. 4.
Shock absorber. A. Thomas. 1,683,499; Sept. 4.
Shock-absorbing mechanism, Friction. G. Q. Lewis. 1,683,473; Sept. 4.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,683,397–9; Sept. 4.
Shock-absorbing mechanism, Friction. R. J. Olander. 1,683,480; Sept. 4.
Shoe, Baby. L. J. Golden. Des. 76,233; Sept. 4.
Shoe-bottom-filling machine. A. Thoma. 1,682,865; Sept. 4.
Shoes, Making. J. Cavanagh. 1,682,773; Sept. 4.
Shoes, Manufacturing. J. S. Touché. 1,682,868; Sept. 4.
Sighting device. J. B. Henderon. 1,683,073; Sept. 4.
Sign element, Interchangeable. L. N. Moss. 1,683,570; Sept. 4.
Signal: *See*—
Police signal. Traffic signal.
Steam-pressure signal. Vehicle signal.
Signal. J. L. Stevens. 1,683,496; Sept. 4.
Signaling system, High-frequency. W. R. G. Baker. 1,683,230; Sept. 4.
Signaling system, Selective. T. M. Davis. 1,683,127; Sept. 4.
Skin cleansing and massaging device. W. J. Rancourt. 1,683,410; Sept. 4.
Slicing machine, Bread-. E. C. Brock. 1,683,445; Sept. 4.
Sliding-jaw wrench. E. Lindquist. 1,683,201; Sept. 4.
Snubber, Automobile spring. C. H. Hughes. 1,683,075; Sept. 4.
Socket, Lamp. J. V. Parent 1,682,930; Sept 4.
Socket, Lamp L. Van Gale. 1,682,944; Sept. 4.
Sole pattern. R. G. Anderson, and J. Gaines. 1,682,880; Sept. 4.
Sorting machine. A. F. Hanney. 1,683,249; Sept. 4.
Sorting machine. W. C. Stewart. 1,682,809; Sept. 4.
Sound-absorbing surface and producing same. L. B. Rymarczick. 1,682,986; Sept. 4.
Sound recording and reproducing apparatus. L. de Forest. 1,683,451; Sept. 4.
Speed-controlling device for continuous-strip-feeding means. H. E. Waner. 1,683,318; Sept. 4.
Speedometer drive. V. Hughes. 1,683,036; Sept. 4.
Speedometer-drive adapter. R. O. Helgeby. 1,683,033; Sept. 4.
Speed transmission, Variable-. H. M. Passmore. 1,683,258; Sept. 4.
Spigot and socket pipe joint. P. G. Johnson, and H. R. Morgan. 1,683,076; Sept. 4.
Spinning artificial silk, Apparatus for. G. Otto, A. Hartmann and G. Bauriedel. 1,682,797; Sept. 4.
Spinning machine. R. Barbour. 1,683,436; Sept. 4.
Spool and the like. H. H. Danders. 1,683,273; Sept. 4.
Spotlight switch. G. Aldeen. 1,683,320; Sept. 4.
Spreader for wood forms, Metallic. E. G. Brown. 1,683,446; Sept. 4.
Spreading the riser bars of commutators, Apparatus for. L. E. Poole. 1,683,261; Sept. 4.
Spring: *See*—
Piston-ring spring.
Spring forming and tempering machine. J. F. Beans and B. L. Le Roy. 1,682,734; Sept. 4.
Spring-making machine, Wire-. C. H. Ziler. 1,682,949; Sept. 4.
Sprinkler: *See*—
Centrifugal sprinkler.
Stabilizer and plaster composition containing the same. A. H. Gallagher. 1,683,539; Sept. 4.
Stamp, Time. J. W. Adion. 1,683,319; Sept. 4.
Starting and synchronizing of alternating-current dynamo-electric machines. W. A. A. Burgess. 1,683,284; Sept. 4.
Steam-pressure signal, Excess-. J. Backstatter. 1,683,148; Sept. 4.
Steering wheel. R. H. Chilton. 1,683,329; Sept. 4.

Steering wheel. H. D. Geyer. 1,683,344; Sept. 4.
Step attachment for stools. C. E. Beard. 1,682,732; Sept. 4.
Stoker. R. A. Foresman and J. E. Larrabee. 1,683,341; Sept. 4.
Stoneworking machine. G. D. Pitkin. 1,683,298; Sept. 4.
Storing dishes, Apparatus for. F. M. Butler. 1,682,885; Sept. 4.
Straw pulp and paper, Manufacturing. C. H. Dedrick. 1,682,834; Sept. 4.
Street and station indicator. K. O'Brien. 1,683,575; Sept. 4.
Stripper appliance, Removable. M. E. Tobeler. 1,683,501; Sept. 4.
Structural unit. D. H. Bitney. 1,683,439; Sept. 4.
Stuffing plaits, Apparatus for. A. S. Mitchell. 1,683,296; Sept. 4.
Stump-pulling machine. G. L. Luebbers. 1,682,973; Sept. 4.
Styrol and its homologues and the polymerization of styrol and its homologues, Polymerized. I. Ostromislensky. 1,683,402–4; Sept. 4.
Styrol from a nonhomogeneous mass of polimerized styrol, Making substantially homogeneous masses of polymerized. I. Ostromislensky and M. G. Shepard. 1,683,401; Sept. 4.
Styrols and products obtained thereby, Making vitreous polymerized. I. Ostromislensky. 1,683,405; Sept. 4.
Submarines, Mine recess of mine-planting. F. Fenaux. 1,683,177; Sept. 4.
Support, Conductor. E. B. Snyder. 1,683,109; Sept. 4.
Support, Garment. W. H. Rose. 1,682,855; Sept. 4.
Support, Screed. V. G. H. Grothe. 1,683,247; Sept. 4.
Surfacing plate glass, Apparatus for. J. H. Fox. 1,683,342; Sept. 4.
Surgical motor. A. Pfeiffer. 1,683,206; Sept. 4.
Sweatband for head coverings. H. T. Blum. 1,683,234; Sept. 4.
Sweatband for head coverings. H. T. Blum. 1,683,326; Sept. 4.
Swing, Lawn. C. H. Brown. 1,683,237; Sept. 4.
Switch: *See*—
Electric switch. Resistance switch.
Fixture-body switch. Spotlight switch.
Switch. A. H. Bayne. 1,683,231; Sept. 4.
Synchronizing apparatus. W. Brückel. 1,683,158; Sept. 4.
Synchronizing individually-driven parts at a transmitter and a receiver station, Device for H. Rassow. 1,683,301; Sept. 4.
Syringe and retaining same, Hypodermic. G. N. Hein. 1,683,349; Sept. 4.
Table: *See*—
Folding table. Ironing table.
Tack-pulling machine. C. N. Spinney and F. L. Mackenzie. 1,682,808; Sept. 4.
Tag, Shipping. S. Noguchi. 1,682,851; Sept. 4.
Talking machine. H. L. T. Buckle. 1,683,160; Sept. 4.
Tank gauge. C. F. Kokemiller. 1,683,557; Sept. 4.
Telegraphy. W. S. Smith, N. W. McLachlan and G. R. Jacob. 1,682,941; Sept. 4.
Terminal for conductors. J. C. and R. D. Shaw. 1,683,418; Sept. 4.
Tester, Oil and gas well sand. W. O. Harris. 1,683,031; Sept. 4.
Textile fabric. J. S. Boyd. Des. 76,219–24; Sept. 4.
Textile fabric. J. H. Bunting. Des 76,277; Sept. 4.
Textile fabric or similar article of manufacture. A. J. Heinke. Des. 76,239; Sept. 4.
Textile goods, Process of and apparatus for cleaning. C. J. Früh. 1,682,841; Sept. 4.
Thermal circuit closer. L. Grayson. 1,682,959; Sept. 4.
Thermionic tube. H. Cohn. 1,682,775; Sept. 4.
Thermoelectric control device. T. J. Madigan. 1,683,252; Sept. 4.
Thermostat. H. J. Sauvage. 1,683,264; Sept. 4.
Thermostat control for radiator valves. E. V. Hill. 1,682,905; Sept. 4.
Thread and making same, Artificial. L. Lilienfeld. 1,683,199; Sept. 4.
Thread-correcting device. E. O. Williamson. 1,683,114; Sept. 4.
Tie press. O. W. Mortenson, G. E. Thelin, and K. F. Norrhagen. 1,683,255; Sept. 4.
Timer. M. Mallory. 1,683,392; Sept. 4.
Tire-bead construction, Rubber-. C. W. McKone. 1,682,922; Sept. 4.
Tire, Pneumatic. J. Powell. 1,683,208; Sept. 4.
Tires, Nonskid mat for pneumatic. F. O. Heltzel. Des. 76,240; Sept. 4.
Toast inspector. D. E. Keech. 1,683,550; Sept. 4.
Toilet-bowl attachment. I. C. Richards. 1,682,798; Sept. 4.
Toilet set. O. P. Smith. 1,682,990; Sept 4.
Tool, Burnishing. F. D. Mongeau. 1,683,044; Sept. 4.
Tool, Extracting. A. T. Brunkow. 1,682,954; Sept. 4.
Tool or appliance for facilitating the mounting of shaft couplings. F. R. Simms. 1,683,311; Sept. 4.
Tool-spindle fixture. G. A. De Vlieg. 1,682,835; Sept. 4.
Tool, Umbilical clamp. C. E. Ziegler. 1,683,119; Sept. 4.
Tools, Electrical operation and control of machine. J. C. Shaw. 1,683,581; Sept. 4.
Torpedo. A. F. Binsiar. 1,683,124; Sept. 4.
Toy. L. S. Gunderman. 1,683,131; Sept 4.
Toy, Mechanical. J. J. Becker. 1,683,232; Sept. 4.
Tracklaying device. I. Santos y Suarez, and A. Acosta y Velo. 1,683,498; Sept. 4.
Track level. D. K. Newmyer. 1,683,394; Sept. 4.
Track liner. R. Rostron. 1,683,099; Sept. 4.
Trackway, High-speed. F. J. Lukens. 1,682,974; Sept. 4.
Traction device, Portable. H. C. Remmers. 1,683,411; Sept. 4.
Tractors, Remote control for. G. A. Trauger. 1,683,000; Sept. 4.
Traffic-controlling apparatus, Railway-. C. W. Failor. 1,682,747; Sept. 4.
Traffic-controlling apparatus, Railway-. A. J. Sorensen. 1,682,997; Sept. 4.
Traffic signal. G. L. Harris. 1,682,753; Sept. 4.
Traffic signal. O. L. Hilde. Des. 76,241; Aug. 21.
Train-pipe coupling, Automatic. J. Robinson. 1,682,854; Sept. 4.
Train retarder. J. E. Finnessy. 1,682,746; Sept. 4.
Transformer. F. J. and W. L. Kaehni. 1,683,389; Sept. 4.
Transformer, Rectifying. C. Fayer and F. H. Wappler. 1,682,748; Sept. 4.
Transformer, Variable-coupling. F. A. Kolster. 1,683,081; Sept. 4.
Transmission. P. L. Tenney. 1,682,999; Sept. 4.
Trap: *See*—
Animal trap.
Trap nest. F. Strickland. 1,683,423; Sept. 4.
Tray, Smoker's. G. E. and A. B. Schneider. Des. 76,261; Sept. 4.
Treating and forming artificial fuels. H. E. Wetherbee. 1,683,061; Sept. 4.
Treating and washing pulp, Chemically. G. A. Richter and M. O. Schur. 1,683,262; Sept. 4.
Treating crape waste. G. Bonnard. 1,683,520; Sept. 4.
Treating dried figs and dried prunes. T. W. W. Forrest. 1,683,068; Sept. 4.
Treating films, Apparatus for. W. M. Thomas. 1,682,943; Sept. 4.
Treating trees. J. E. Laffin. 1,682,760; Sept. 4.
Treating water. J. W. M. Bourgognion and C. L. Philips. 1,683,521; Sept. 4.
Trimming machine. S. J. Finn. 1,682,780; Sept. 4.
Truck, Electric-power. W. H. Coburn and C. Kiernan. 1,683,287; Sept. 4.
Tube: *See*—
Inner tube. Thermionic tube.
Tube support, Flexible. A. Champion. 1,683,023; Sept. 4.
Tubes, Producing rubber. C. E. Maynard. 1,682,923; Sept. 4.
Turbine, Hydraulic. L. F. Moody. 1,683,567; Sept. 4.
Tuyère. G. W. Vreeland. 1,682,816; Sept. 4.
Twine package and its manufacture. J. H. Damon. 1,682,777; Sept. 4.
Typewriting machine. B. C. Stickney. 1,683,582; Sept. 4.
Typewriting machine. L. A. Thatcher. 1,683,425; Sept. 4.
Upright drill, Box-column-type. D. C. Klausmeyer. 1,682,844; Sept. 4.
Valve. B. B. Annis. 1,683,322; Sept. 4.
Valve. J. A. Bishop. 1,683,153–4; Sept. 4.
Valve. E. W. Davis. 1,682,891; Sept. 4.
Valve. F. E. Key. 1,683,555; Sept. 4.
Valve. S. J. Nordstrom. 1,683,257; Sept. 4.
Valve, Automatic float. R. T. Dickey. 1,683,171; Sept. 4.
Valve, Automatic flushing. W. F. Bright. 1,683,062; Sept. 4.
Valve construction. E. Tyden. 1,683,002; Sept. 4.
Valve, Float-controlled. S. Greenhouse. 1,683,180; Sept. 4.
Valve for internal-combustion engines. C. S. Joyce. 1,683,077; Sept. 4.
Valve for internal-combustion engines, Air-vent. J. J. Vertrees, jr. 1,683,504; Sept. 4.
Valve for internal-combustion engines, Rotary. A. A. J. Westman. 1,683,275; Sept. 4.
Valve, Liquid-measuring. C. H. Ayars. 1,683,120; Sept. 4.
Valve mechanism. E. P. Buckley. 1,683,523; Sept. 4.
Valve mechanism. F. D. Holdsworth. 1,682,906–7; Sept. 4.
Valve mechanism. C. F. Osgood. 1,682,908; Sept. 4.
Valve, Thermostatic. L. F. Doen. 1,683,172; Sept. 4.
Vanity case. W. G. Kendall. 1,683,551; Sept. 4.
Vase, Glass. N. Kopp. Des. 76,245; Sept. 4.
Vault. R. L. Folmar. 1,683,537; Sept. 4.
Vehicle body. F. T. Houle. 1,683,467; Sept. 4.
Vehicle brake, Motor-. E. G. Gunn. 1,682,783; Sept. 4.
Vehicle, Child's. B. F. Colvin. 1,683,240; Sept. 4.
Vehicle control system, Motor-. J. J. Gardner. 1,682,781; Sept. 4.
Vehicle, Endless-track. O. S. Penn. 1,683,407; Sept. 4.
Vehicle jack. S. M. Salkind. 1,682,856; Sept. 4.
Vehicle, Motor. S. A. Gibson. 1,682,782; Sept. 4.
Vehicle, Motor. A. Moorhouse. 1,682,792; Sept. 4.
Vehicle pole tip. N. J. Soderstrom. 1,682,859; Sept. 4.
Vehicle signal. V. Altman. 1,683,278; Sept. 4.
Vehicles, Attachment for motor. C. E. Ryan and T. J. Schuetz. 1,683,306; Sept. 4.
Vehicles, Attachment for motor. C. E. Ryan and T. J. Schuetz. 1,683,307; Sept. 4.
Vending device, Towel-. O. M. Blair and W. E. Williams. 1,683,519; Sept. 4.

Vending machine. C. Lea. 1,683,360; Sept. 4.
Vending machine. A. Milberg. 1,683,563; Sept. 4.
Vending machine. L. P. Starkey. 1,682,942; Sept. 4.
Vending machine, Linoleum-. L. P. Rose. 1,682,802; Sept. 4.
Vending machine, Variety. V. H. Kelley. 1,683,251; Sept. 4.
Ventilating device for engine crank cases. C. E. Summers. 1,682,992; Sept. 4.
Ventilator: *See*—
Window ventilator.
Vibrating regulator. W. K. Kearsley, jr. 1,683,139; Sept. 4.
Viscose-treating apparatus. S. A. Neidich. 1,683,478; Sept. 4.
Visor and wiper motor, Combined windshield. T. B. Polk. 1,683,260; Sept. 4.
Voice device. L. G. Handy. 1,682,962; Sept. 4.
Warning light. O. C. Ritz Woller. 1,682,948; Sept. 4.
Warper. J. T. Melchor. 1,683,367; Sept. 4.
Washing and wringing machine, Clothes. M. M. Jackson. 1,683,037; Sept. 4.
Washing apparatus for coals. P. Wolf. 1,682,820; Sept. 4.
Washing fabrics, Process and apparatus for. O. Berg. 1,683,325; Sept. 4.
Washing fibrous materials, Apparatus for. F. B. Stratford. 1,682,861; Sept. 4.
Washing machine, Vehicle. H. S. Gibson. 1,682,902; Sept. 4.
Water cooler. H. K. Bush. 1,683,381; Sept. 4.
Water heater, Permanent-. K. E. Merz. 1,683,008; Sept. 4.
Water-level indicator. D. S. Jacobus. 1,682,843; Sept. 4.
Waterproof textile material, paper, and the like, Production of. C. Knopf. 1,683,470; Sept. 4.
Water system, Tide-. F. M. Zottoli. 1,683,277; Sept. 4.
Water wheel. J. J. Hoppes. 1,682,966; Sept. 4.
Waving apparatus, Permanent-. W. S. Lewis. 1,682,972; Sept. 4.
Weather strip. F. E. Caldwell. 1,683,162; Sept. 4.
Weather strip. E. R. Hopkins. 1,683,355; Sept. 4.
Weather strip. A. Miller. 1,683,564; Sept. 4.
Weft detector in regularly-moving transferrer. R. G. Turner. 1,683,214; Sept. 4.
Well capper, Temporary. G. B. Ervin. 1,683,173; Sept. 4.
Wheel: *See*—
Resilient wheel.
Steering wheel.
Water wheel.
Wheels, Making metal. E. R. Jacobi and F. H. Le Jeune. 1,682,909; Sept. 4.
Winding machines, Tension device for. W. E. Olson. 1,682,796; Sept. 4.
Window-curtain fitting. V. H. Moody and C. W. Kempton. 1,683,568; Sept. 4.
Window regulators, Connection between closures and control arms of. M. G. Hanson. 1,683,459; Sept. 4.
Window seat. C. E. Ehnborn. 1,683,027; Sept. 4.
Window, Sliding and pivoted. L. G. Siller. 1,683,419; Sept. 4.
Window ventilator. M. F. Clay. 1,682,739; Sept. 4.
Windows and the like, Water barrier for. C. H. Wilson. 1,683,377; Sept. 4.
Wiper, Windshield. C. C. Pisciotta. 1,683,053; Sept. 4.
Wire-drawing block. J. S. Phifer. 1,683,482; Sept. 4.
Wireless receiving apparatus, Antistatic arrangement in. A. E. Beattie. 1,683,122; Sept. 4.
Wood and the like, Impregnation of. H. Renner. 1,683,488; Sept. 4.
Working mechanism, Material-. E. N. Jorgensen 1,682,911; Sept. 4.
Worktable. G. D. Pitkin. 1,683,299; Sept. 4.
Wrench: *See*—
Sliding-jaw wrench.
Wrench-handle attachment. J. E. Durham, jr., and D. Hume. 1,683,384; Sept. 4.
Wringer. E. A. Hirner. 1,683,352; Sept. 4.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 4, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 13.6: 1,682,769
1,682,770
49.7: 1,683,328
2— 14: 1,683,505
37: 1,683,510
79: 1,682,785
98: 1,682,831
137: 1,682,952
190: 1,683,233
1,683,234
1,683,326
194: 1,682,870
227: 1,683,511
272: 1,683,226
4— 7: 1,683,063
100: 1,683,062
185: 1,683,430
237: 1,682,798
1,682,799
243: 1,682,987
5— 8: 1,683,149
73: 1,683,513
8— 19: 1,682,841
1,683,325
20: 1,683,470
9— 4: 1,683,409
18: 1,683,058
10— 1: 1,683,114
28: 1,682,862
34: 1,682,863
42: 1,682,864
95: 1,683,126
12— 16: 1,682,808
17: 1,682,810
42: 1,683,115
84: 1,682,807
142: 1,682,773
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13— 38: 1,682,937
15— 21: 1,683,458
92: 1,683,497
104.06: 1,683,429
173: 1,683,494
176: 1,683,530
179: 1,683,456
208: 1,683,357
226: 1,683,538
229: 1,683,549
249: 1,683,379
253: 1,683,260
255: 1,683,053
16— 164: 1,682,860
168: 1,682,903
17— 9: 1,683,113
18— 1: 1,682,865
2: 1,682,876
8: 1,682,797
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47.5: 1,683,587
53: 1,682,857
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54: 1,683,199
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55: 1,682,914
59: 1,683,345
19— 60: 1,682,950
66: 1,683,520
136: 1,683,583
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52.4: 1,683,355
69: 1,683,162
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82: 1,683,472
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23— 86: 1,683,431
94: 1,682,743
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153: 1,683,047
156: 1,682,996
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32— 10: 1,682,784
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33— 5: 1,682,880
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214: 1,683,065
34— 39: 1,682,752
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77— 3: 1,683,339
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177— 311: 1,683,343
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156— 14: 1,683,421
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221— 47. 4: 1,682,932
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241— 12: 1,683,427
242— 55: 1,682,991
72: 1,682,802
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149: 1,682,706
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1,683,490
19: 1,682,893
246— 34: 1,682,747
1,683,222
63: 1,682,997
247— 22: 1,683,308
25: 1,682,738
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27: 1,683,415
248— 33: 1,682,737
250— 11: 1,683,080
19: 1,683,118
20: 1,683,122
1,683,127
27. 5: 1,682,775
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1,683,156
1,683,202
33: 1,683,270
34: 1,683,194
36: 1,683,130
40: 1,683,081
251— 5: 1,683,322
32: 1,683,154
47: 1,683,153
75: 1,682,891
93: 1,683,257
113: 1,683,555
116: 1,683,565
149: 1,682,906
1,682,908
130: 1,683,338
144: 1,683,293
252— 9: 1,683,569
253— 151: 1,683,567
154: 1,682,966
254— 25: 1,682,954
44: 1,683,099
49: 1,682,910
94: 1,682,856
135: 1,682,973
149: 1,683,396
255— 11: 1,683,006
22: 1,682,955
27: 1,683,096
255— 61: 1,683,502
257— 130: 1,683,340
167: 1,683,527
196: 1,683,381
236: 1,683,236
258— 21: 1,683,547
259— 9: 1,683,500
35: 1,682,735
56: 1,682,976
260— 2: 1,683,401
1,683,402
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3: 1,682,934
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111: 1,683,104
1,683,105
29: 1,683,559
101: 1,683,347
106: 1,682,920
112: 1,683,159
122: 1,683,198
171: 1,682,919
261— 44: 1,682,761
121: 1,683,576
262— 5: 1,683,045
9: 1,683,297
30: 1,683,225
263— 49: 1,682,801
264— 13: 1,683,009
265— 45: 1,683,452
266— 1. 5: 1,683,146
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267— 9: 1,682,786
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37: 1,683,363
47: 1,683,522
48: 1,683,075
268— 44: 1,683,464
126: 1,683,459
271— 2. 3: 1,683,318
8: 1,683,195
272— 43: 1,682,803
49: 1,683,237
273— 63: 1,682,836
80: R. 17,076
88: 1,682,926
101: 1,683,185
273— 113: 1,682,822
132: 1,683,014
148: 1,683,242
152: 1,683,026
274— 1: 1,683,440
1,683,469
275— 8: 1,682,825
277— 1: 1,683,372
20: 1,683,002
1,683,145
46: 1,682,907
70: 1,682,848
278— 50: 1,682,859
279— 2: 1,683,167
280—33. 16: 1,682,994
36: 1,683,029
109. 5: 1,682,782
281— 31: 1,683,140
285— 31: 1,683,548
45: 1,683,393
58: 1,682,854
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163: 1,683,076
286— 6: 1,683,449
287— 104: 1,682,895
202— 198: 1,683,426
228: 1,683,074
267: 1,683,553
293— 52: 1,683,283
55: 1,682,858
1,683,541
294— 31: 1,683,190
82: 1,683,020
106: 1,683,463
296— 29: 1,683,467
135: 1,683,346
297— 2: 1,682,915
298— 14: 1,682,882
299— 63: 1,683,259
83: 1,682,830
301— 63: 1,682,899
303— 6: 1,682,781
6. 1: 1,683,142
304— 24: 1,683,027
305— 4: 1,683,498
9: 1,683,407
308— 26: 1,683,351
68: 1,682,969
161: 1,682,835
226: 1,683,462
312— 7: 1,682,778
93: 1,683,251
94: 1,683,360
1,683,519
140: 1,683,525

Sept. 11, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Manufacturing Co., Providence, R. I. Pyrophoric pocket cigar lighters. 246,815; Sept. 11. Class 34.

Acme Platinum Manufacturing Co. Inc., New York, N. Y. Jewelry. 246,490; Sept. 11; Serial No. 263,022; published June 26, 1928. Class 28.

Alaska Refrigerator Company, The, Muskegon, Mich. Refrigerators. 246,763; Sept. 11; Serial No. 266,449; published June 26, 1928. Class 31.

Alpha Delta Sigma, Madison, Wis. Fraternity badges, lapel buttons, cuff links, etc. 246,688; Sept. 11; Serial No. 257,956; published June 26, 1928. Class 28.

Alpha Sigma, New York, N. Y. Fraternity pins. 246,571; Sept. 11; Serial No. 263,678; published June 12, 1928. Class 28.

American Diatom Company, Philadelphia, Pa. Diatomaceous earths in the natural state. 246,508; Sept. 11; Serial No. 264,411; published June 12, 1928. Class 1.

American Hide and Leather Company, Boston, Mass. Calfskin. 246,655; Sept. 11; Serial No. 239,841; published June 19, 1928. Class 1.

American Rattan & Reed M'f'g. Co., New York, N. Y. Woven rattan and cane. 246,530; Sept. 11; Serial No. 264,938; published June 26, 1928. Class 1.

Ames Grain and Coal Company, Ames, Iowa. Coal. 246,488; Sept. 11; Serial No. 263,064; published June 5, 1928. Class 1.

Anderson-Pitt Corporation, Kansas City, Mo. Dispensing bottle stoppers. 246,574; Sept. 11; Serial No. 263,578; published June 12, 1928. Class 50.

Angleton Fig Company, The, Angleton, Tex. Canned beans, canned fig syrup, and canned spinach. 246,608; Sept. 11; Serial No. 262,346; published June 19, 1928. Class 46.

Antoine. (See Cierplikowski, A.)

Anzene Products Company, St. Louis, Mo. Preparation to be added to gasoline. 246,669; Sept. 11; Serial No. 203,780; published June 19, 1928. Class 6.

Arco Company, The, Cleveland, Ohio. Lacquers and varnishes. 246,679; Sept. 11; Serial No. 265,350; published June 26, 1928. Class 16.

Argyle Coal Company, South Fork and Johnstown, Pa. Coal. 246,492; Sept. 11; Serial No. 262,839; published June 5, 1928. Class 1.

Armand Company, The, Des Moines, Iowa. Astringent lotion. 246,658; Sept. 11; Serial No. 231,361; published Aug. 3, 1926. Class 6.

Artique Studios, Chicago, Ill. Electric table lamps, wall brackets, etc. 246,668; Sept. 11; Serial No. 213,218; published June 19, 1928. Class 21.

Atco Feed & Supply Co., Atco, N. J. Poultry, etc., feeds. 246,773; Sept. 11; Serial No. 252,878; published June 26, 1928. Class 46.

Atlantic Headwear Company, Atlantic City, N. J. Men's and boys' caps. 246,544; Sept. 11; Serial No. 262,145; published June 5, 1928. Class 39.

B. G. Corporation, The, New York, N. Y. Spark plugs. 246,760; Sept. 11; Serial No. 264,799; published June 19, 1928. Class 21.

Balter, William & Co. Inc., New York, N. Y. Articles of jewelry. 246,728; Sept. 11; Serial No. 265,463; published June 26, 1928. Class 28.

Bank Vault Inspection Company, The. (See Yeo, Samuel P.)

Beekman, Ben, New Orleans, La. Men's suits and overcoats. 246,597; Sept. 11; Serial No. 264,553; published June 12, 1928. Class 39.

Berger, Harry, doing business as H. Berger & Co., New York, N. Y. Artificial furs. 246,631; Sept. 11; Serial No. 265,314; published June 26, 1928. Class 1.

Berry Dental Laboratory Co., The, St. Louis, Mo. Tooth crowns. 246,804; Sept. 11; Serial No. 257,399; published June 19, 1928. Class 44.

Best Foods, Inc., The, New York, N. Y. Vegetable stearine. 246,619; Sept. 11; Serial No. 265,134; published June 26, 1928. Class 46.

Beta Kappa Fraternity, Tucson, Ariz. Fraternity badges, lapel buttons, cuff links, etc. 246,539; Sept. 11; Serial No. 264,864; published June 26, 1928. Class 28.

Beta Phi Sigma Fraternity, St. Louis, Mo. Ornamental shields and fraternal jewelry. 246,507; Sept. 11; Serial No. 264,414; published June 19, 1928. Class 28.

Beta Pi Theta Fraternity, Hartsville, S. C. Jewelry. 246,753; Sept. 11; Serial No. 264,633; published June 19, 1928. Class 28.

Big-Boy Products Co., New York, N. Y. Storage batteries. 246,756; Sept. 11; Serial No. 264,711; published June 19, 1928. Class 21.

Bloomfield, J., Co., Inc., New York, N. Y. Ladies' hats. 246,581; Sept. 11; Serial No. 263,370; published June 19, 1928. Class 39.

Bonide Chemical Co., Utica, N. Y. Household insecticide and deodorant. 246,766; Sept. 11; Serial No. 266,079; published June 26, 1928. Class 6.

Bosniak, Meyer, New York, N. Y. Dresses. 246,554; Sept. 11; Serial No. 261,346; published June 5, 1928. Class 39.

Breeze Corporations Incorporated, Newark, N. J. Flexible metallic conduit. 246,543; Sept. 11; Serial No. 262,202; published June 26, 1928. Class 21.

Bresnahan Shoe Company, Boston, Mass. Boots and shoes. 240,755; Sept. 11; Serial No. 264,668; published June 26, 1928. Class 39.

Breuer Electric Mfg. Co., Chicago, Ill. Electrically-driven portable electric blowers, suction cleaners, and sprayers. 246,727; Sept. 11; Serial No. 265,465; published June 26, 1928. Class 21.

Bright Star Battery Co., Hoboken, N. J. A and B batteries. 246,665; Sept. 1; Serial No. 222,820; published Feb. 23, 1928. Class 21.

Brine, James W., Co., Boston, Mass. Football bladders, football helmets, baseball bats, etc. 246,580; Sept. 11; Serial No. 263,372; published June 26, 1928. Class 22.

Brooks Hosiery Mills, Philadelphia, Pa. Hosiery. 246,494; Sept. 11; Serial No. 262,795; published June 5, 1928. Class 39.

Broom & Newman, New York, N. Y. Men's dress, negligee, and work shirts. 246,563; Sept. 11; Serial No. 261,040; published June 5, 1928. Class 39.

Brown, Andrew, Co., Inc., Los Angeles and Maywood, Calif. Paint, lacquers, varnish, and paint enamels. 246,553; Sept. 11; Serial No. 261,347; published June 19, 1928. Class 16.

Burkhardt Bros. Co., The, Cincinnati, Ohio. Men's outer clothing. 246,500; Sept. 11; Serial No. 263,124; published June 5, 1928. Class 39.

Butterfield, Fred, & Co., Inc., New York, N. Y. Dresses, union suits, pajamas, etc. 246,600; Sept. 11; Serial No. 264,286; published June 5, 1928. Class 39.

California Petroleum Corporation, Los Angeles, Calif. Motor-lubricating oils. 246,748; Sept. 11; Serial No. 264,506; published June 19, 1928. Class 15.

Campbell Coal Company, Atlanta, Ga. Coal. 246,573; Sept. 11; Serial No. 263,584; published June 12, 1928. Class 1.

Capitol Paint & Varnish Works, Inc., New York and Brooklyn, N. Y. Paint enamel. 246,769; Sept. 11; Serial No. 266,017; published June 19, 1928. Class 16.

Capitol Paint & Varnish Works, Inc., New York and Brooklyn, N. Y. Varnish. 246,770; Sept. 11; Serial No. 266,016; published June 19, 1928. Class 16.

Carolina-Georgia Service Company, Anderson, S. C. Ice. 246,784; Sept. 11; Serial No. 264,804; published June 26, 1928. Class 1.

Carpentier, Emile, doing business as Emile Carpentier, Hillsdale, N. J. Medicines for tuberculosis. 246,551; Sept. 11; Serial No. 261,860; published June 19, 1928. Class 6.

Carter-Strite Mfg. Co., Minneapolis, Minn. Electrical bacon broilers. 246,694; Sept. 11; Serial No. 260,672; published June 26, 1928. Class 21.

Cedarwood Fumi-Teurs Corporation, Atlanta, Ga. Disinfectant. 246,764; Sept. 11; Serial No. 266,299; published June 26, 1928. Class 6.

Celanese Corporation of America, New York, N. Y. Dresses, frocks, and negligees. 246,633; Sept. 11; Serial No. 264,142; published June 5, 1928. Class 39.

Centemeri, P., & Co., New York, N. Y. Gloves, hats, shoes, smoking jackets, suits, etc. 246,793; Sept. 11; Serial No. 260,093; published June 5, 1928. Class 39.

Centemeri, P., & Co., New York, N. Y. Gloves, hats, shoes, slippers, etc. 246,794; Sept. 11; Serial No. 260,089; published June 12, 1928. Class 39.

Chandgie, Harry C., Greensboro, N. C. Dress shirts, men's underwear and pajamas. 245,808; Sept. 11. Class 39.

Chappel Bros., Inc., Rockford, Ill. Liver extract and hemoglobin compound. 246,783; Sept. 11; Serial No. 253,938; published July 3, 1928. Class 6.

Chicago Flexible Shaft Company, Chicago, Ill. Electric heating pads. 246,518; Sept. 11; Serial No. 264,288; published June 19, 1928. Class 21.

Chicago Mail Order Company, Chicago, Ill. Children's coats, dresses, shoes, etc. 246,473; Sept. 11; Serial No. 264,143; published June 26, 1928. Class 39.

Chi Omega Fraternity, The, Cincinnati, Ohio. Jewelry, dresser sets, etc. 246,687; Sept. 11; Serial No. 258,068; published June 26, 1928. Class 28.

Cierplikowski, Antoine, doing business as Antoine, Paris, France. Face cream. 246,719; Sept. 11; Serial No. 265,522; published June 19, 1928. Class 6.

Clark Controller Company, The, Cleveland, Ohio. Electric controllers. 246,481; Sept. 11; Serial No. 264,016; published June 26, 1928. Class 21.

Cleveland Liner & Manufacturing Company, Cleveland, Ohio. Processed or coated cloth. 246,693; Sept. 11; Serial No. 260,716; published June 19, 1928. Class 50.

Cohn & Rosenberger, Inc., New York, N. Y. Mesh bags, pins for dress ornaments, etc. 246,517; Sept. 11; Serial No. 264,289; published June 19, 1928. Class 28.

Colebrookdale Iron Company, Colebrookdale, Pa. Gas flatirons. 246,810; Sept. 11. Class 24.

Columbia Ribbon Co., The, Paterson, N. J. Hatbands. 246,646; Sept. 11; Serial No. 264,422; published June 19, 1928. Class 40.

Condie-Bray Glass & Paint Co., St. Louis, Mo. Interior decorative paint. 246,547; Sept. 11; Serial No. 265,261; published June 19, 1928. Class 16.
Consolidated Millinery Company, Chicago, Ill. Ladies' and misses' hats. 246,801; Sept. 11; Serial No. 258,797; published June 12, 1928. Class 39.
Continental Fur Corporation, New York, N. Y. Raw furs. 246,523; Sept. 11; Serial No. 265,093; published June 26, 1928. Class 1.
Continental Refining Company, Cornplanter, Pa. Gasoline, cup and axle grease, etc. 246,570; Sept. 11; Serial No. 263,693; published June 19, 1928. Class 15.
Costaras, James, doing business as James Costaras Shoe Co., Nashua, N. H. Shoes. 246,682; Sept. 11; Serial No. 259,321; published May 29, 1928. Class 39.
Cox Baking Co., Inc., The, Dover, Del. Cakes. 246,818; Sept. 11; Class 46.
Cox Baking Co., Inc., The, Dover, Del., and Jamaica, N. Y. Cakes. 246,819; Sept. 11. Class 46.
Cupples Company, Manufacturers, St. Louis, Mo. Bottle caps. 246,477; Sept. 11; Serial No. 264,083; published June 12, 1928. Class 50.
Cushing Refining & Gasoline Company, Cushing, Okla. Gasoline. 246,583; Sept. 11; Serial No. 265,094; published June 26, 1928. Class 15.
D. & I. Jewelry Mfg. Co., Inc., New York, N. Y. Jewelry. 246,472; Sept. 11; Serial No. 264,151; published June 19, 1928. Class 28.
David & Blum, Inc., New York, N. Y. Leather gloves. 246,700; Sept. 11; Serial No. 260,377; published May 8, 1928. Class 39.
Dees, Charles W., doing business as C. W. Dees Manufacturing Company, Ellensburg, Wash. Antiseptic liquid court plaster. 246,821; Sept. 11. Class 6.
Delmel, Robert K., New York, N. Y. Vests, drawers, and union suits. 246,636; Sept. 11; Serial No. 263,934; published June 5, 1928. Class 39.
Deja, Inc., New York, N. Y. Ladies' dresses. 246,695; Sept. 11; Serial No. 260,629; published May 22, 1928. Class 39.
Delco-Remy Corporation, Anderson, Ind., and Dayton, Ohio. Electrical starting, lighting, and ignition apparatus and parts thereof. 246,572; Sept. 11; Serial No. 263,594; published June 26, 1928. Class 21.
Delman, Inc., New York, N. Y. Shoes. 246,648; Sept. 11; Serial No. 263,814; published June 5, 1928. Class 39.
Delta Gamma Delta Sorority, Chicago, Ill. Fraternity badges, lapel buttons, etc. 246,506; Sept. 11; Serial No. 264,425; published June 19, 1928. Class 28.
Demi-Size Dress Corporation, New York, N. Y. Women's dresses. 246,605; Sept. 11; Serial No. 262,650; published June 19, 1928. Class 39.
Detex Watchclock Corporation, New York, N. Y. Watchmen's time detectors, watch clocks, and watchmen's clocks. 246,482; Sept. 11; Serial No. 263,955; published June 19, 1928. Class 27.
Deutschmann, Tobe C., doing business as Tobe Deutschmann Company, Cambridge, Mass. Fixed condensers. 246,632; Sept. 11; Serial No. 265,263; published June 26, 1928. Class 21.
Devine & Yungel Shoe Mfg. Co., Harrisburg, Pa. Shoes. 246,612; Sept. 11; Serial No. 262,214; published June 5, 1928. Class 39.
Diamond, Joseph I., Philadelphia, Pa. Washing blue. 246,779; Sept. 11; Serial No. 249,345; published June 26, 1928. Class 6.
Dix, Henry A., Sons Corporation, New York, N. Y. Aprons, collars, caps, etc. 246,677; Sept. 11; Serial No. 246,017; published June 5, 1928. Class 39.
Dorothy Dodd Shoe Company, Boston, Mass. Hosiery. 246,603; Sept. 11; Serial No. 264,224; published June 5, 1928. Class 39.
Dowst Manufacturing Company, Chicago, Ill. Toy automobiles, toy automobile trucks, etc. 246,615; Sept. 11; Serial No. 265,199; published June 26 1928. Class 22.
Draper-Maynard Company, The, Plymouth, N. H. Footballs. 246,582; Sept. 11; Serial No. 265,097; published June 19, 1928. Class 22.
Drew Line Company, Fort Atkinson, Wis. Incubators and brooders. 246,476; Sept. 11; Serial No. 264,088; published June 5, 1928. Class 50.
Drisole Tanning Company, Cudahy, Wis. Shoe-sole leather. 246,761; Sept. 11; Serial No. 247,602; published June 19, 1928. Class 1.
Dynamo Timer Co. (See Weeks, Elling O.)
East Side Bottling Works, Detroit, Mich. Beverages. 246,656; Sept. 11; Serial No. 238,168; published Nov. 30, 1926. Class 45.
Eisen & Son, New York, N. Y. Women's woolen coats, chinchilla coats, and fur coats. 246,611; Sept. 11; Serial No. 262,216; published June 5, 1928. Class 39.
Eisner, J., & Sons Co., Inc., New York, N. Y. Tuxedos, men's suits, and young men's suits. 246,501; Sept. 11; Serial No. 263,118; publishd June 5, 1928. Class 39.
Elco Paint Products, Inc., New York, N. Y. Enamel paints, cement coating, oxide paints, etc. 246,627–8; Sept. 11; Serial Nos. 265,327–8; published June 19, 1928. Class 16.
Elco Paint Products, Inc., New York, N. Y. Enamel paints, penetrating stains, primers, etc. 246,629; Sept. 11; Serial No. 265,326; published June 19, 1928. Class 16.
Elco Paint Products, Inc., New York, N. Y. Enamel paints, penetrating stains, primers, etc. 246,630; Sept. 11; Serial No. 265,324; published June 19, 1928. Class 16.
Elias-Katz Shoe Factories, Los Angeles, Calif. Shoes and slippers. 246,596; Sept. 11; Serial No. 263,465; published June 5, 1928. Class 39.
Ellis, Francis C., doing business as Ellis Manufacturing Company, Chicago, Ill. Carbon arc lamp. 246,498; Sept. 11; Serial No. 262,707; published June 26, 1928. Class 21.
Estate of Jos. Moldawsky, deceased, New York, N. Y.; Rose Moldawsky, administratrix. Articles of jewelry. 246,509; Sept. 11; Serial No. 264,405; published June 19, 1928. Class 28.
Everfresh Chow Mein Co. (See Ginsberg, Louis L.)
Excell Laboratories, The, Chicago, Ill. Ant remedy. 246,813; Sept. 11. Class 6.
Feinberg & Sussberg, Inc., assignor to James McCreery & Company, New York, N. Y. Undergarments. 246,657; Sept. 11; Serial No. 236,125; published Dec. 7, 1926. Class 39.
Firth-Sterling Steel Company, McKeesport, Pa. Steel. 246,529; Sept. 11; Serial No. 264,975; published June 19, 1928. Class 14.
Fischer, Carl, Inc., New York, N. Y. Violins, violas, and cellos. 246,505; Sept. 11; Serial No. 264,427; published June 26, 1928. Class 36.
Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. 246,584; Sept. 11; Serial No. 266,307; published June 19, 1928. Class 46.
Fitzpatrick, Jeremiah, doing business as George Strong Company, East Weymouth, Mass. Leather shoes. 246,647; Sept. 11; Serial No. 263,868; published June 5, 1928. Class 39.
Fleisher, S. B. & B. W., Inc., Philadelphia, Pa. Hand knitting sets. 246,786; Sept. 11; Serial No. 260,564; published June 26, 1928. Class 40.
Flynn, Frank, Providence, R. I. Jewelry. 246,678; Sept. 11; Serial No. 265,373; published June 26, 1928. Class 28.
Frank, A. B., Company, San Antonio, Tex. Children's play suits. 246,707; Sept. 11; Serial No. 256,458; published June 19, 1928. Class 39.
Fraternity of Alpha Zeta, Marshall, Ill. Fraternity badges, lapel buttons, cuff links, etc. 246,781; Sept. 11; Serial No. 247,685; published June 26, 1928. Class 28.
Fraternity of Phi Gamma Delta, Washington, D. C. Jewelry. 246,758; Sept. 11; Serial No. 264,719; published June 26, 1928. Class 28.
French, G. Watson, doing business as Iowana Farms, Davenport, Iowa. Dairy and farm products. 246,579; Sept. 11; Serial No. 263,385; published June 26, 1928. Class 46.
Gabriel, Oscar L., doing business as Happie-Easter Dye Company, Brooklyn, N. Y. Dyes. 246,712; Sept. 11; Serial No. 256,772; published July 3, 1928. Class 6.
Garcia & Pla, New York, N. Y. Hosiery. 246,599; Sept. 11; Serial No. 264,294; published June 12, 1928. Class 39.
Gertner, M. H., Columbus, Ohio. Malt syrup (canned). 246,705; Sept. 11; Serial No. 256,186; published June 26, 1928. Class 46.
Gilbert, A. C., Company, The, New Haven, Conn. Electric vibrators and hair dryers. 246,623–4; Sept. 11; Serial Nos. 265,101–2; published June 19, 1928. Class 44.
Gilbert, William L., Clock Company, Winsted, Conn. Clocks. 246,726; Sept. 11; Serial No. 265,472; published June 26, 1928. Class 27.
Gimbel Brothers, Inc., New York, N. Y.; Philadelphia, Pa.; Milwaukee, Wis.; and Pittsburgh, Pa. Scarfs, capes, dresses, gowns, etc. 246,778; Sept. 11; Serial No. 249,655; published June 5, 1928. Class 39.
Ginsberg, Louis L., doing business as Everfresh Chow Mein Co., Minneapolis, Minn. Chow mein noodles. 246,736; Sept. 11; Serial No. 265,790; published June 26, 1928. Class 46.
Glen Alpine Knitting Mills, Inc., Glen Alpine, N. C. Hosiery. 246,475; Sept. 11; Serial No. 264,095; published June 5, 1928. Class 39.
Goldban Pharmacal Co. (See Goldberg, Samuel J.)
Goldberg, Max, New York, N. Y. Basket balls, baseballs, footballs, etc. 246,546; Sept. 11; Serial No. 262,076; published June 19, 1928. Class 22.
Goldberg, Samuel J., doing business as Goldban Pharmacal Co., Camden, N. J. Fluid medicine. 246,702; Sept. 11; Serial No. 254,846; published June 19, 1928. Class 6.
Goldsmid, Benjamin, New York, N. Y. Watchcases. 246,791; Sept. 11; Serial No. 260,174; published June 26, 1928. Class 27.
Goodrich-Gamble Company, St. Paul, Minn. Balm. 246,718; Sept. 11; Serial No. 265,535; published June 19, 1928. Class 6.
Grand Wood Works, Inc., Chicago, Ill. Bases, breaks, inserts, and other trim for stands. 246,560; Sept. 11; Serial No. 261,111; published June 19, 1928. Class 50.
Gravier, Alphonse, Neuilly-sur-Seine, France. Perfumes, toilet water, face powder, etc. 246,717; Sept. 11; Serial No. 265,536; published June 26, 1928. Class 6.
Graybar Electric Company, Inc., New York, N. Y. Deaf sets. 246,672–5; Sept. 11; Serial Nos. 259,725–8; published June 19, 1928. Class 44.
Guiberson Corporation, The, Dallas, Tex. Mechanical tanks. 246,604; Sept. 11; Serial No. 264,163; published June 26, 1928. Class 23.
Gulf & West Indies Co., Inc., The, New York, N. Y. Sponges. 246,515–16; Sept. 11; Serial Nos. 264,298–9; published June 12, 1928. Class 1.

Hadley Company, Inc., The, Providence, R. I. Bracelets. 246,471; Sept. 11; Serial No. 264,165; published June 19, 1928. Class 28.
Halpern, Adolf, Vienna, Austria. Electromagnetic apparatus and parts thereof. 246,689; Sept. 11; Serial No. 257,756; published June 26, 1928. Class 44.
Handelsvennootschap onder de Firma Ph. Hakkert Jr., Handelende Tevens onder den Naah van First Dutch Stringmakers en Eerste Nederlandsche Snarenfabriek, Rotterdam, Netherlands. Strings manufactured from gut. 246,691; Sept. 11; Serial No. 257,673; published June 26, 1928. Class 36.
Hanes, P. H., Knitting Company, Winston-Salem, N. C. Underwear for children. 246,561–2; Sept. 11; Serial Nos. 261,054–5; published June 12, 1928. Class 39.
Hanover Knitting Mills of America. (See Peterzell, Harry L.)
Happie-Easter Dye Company. (See Gabriel, Oscar L.)
Hardwick & Magee Company, Philadelphia, Pa. Textile carpets. 246,816; Sept. 11. Class 42.
Haspel Brothers, Inc., New Orleans, La. Suits. 246,602; Sept. 11; Serial No. 264,232; published June 5, 1928. Class 39.
Hausam, Albert G., Sedalia, Mo. Pigeon health grit. 246,754; Sept. 11; Serial No. 264,642; published June 12, 1928. Class 1.
Heal-O-l Laboratories. (See Witte, E. B.)
Heaney, Bernard J., doing business as Heaney Manufacturing Company, Boston, Mass. Chamois leather. 246,556; Sept. 11; Serial No. 261,256; published June 26, 1928. Class 1.
Heath Spring and Notion Company Limited, The, Redditch, England. Arm bands of coiled wire. 246,713; Sept. 11; Serial No. 256,823; published June 26, 1928. Class 39.
Heine & Co., New York, N. Y. Natural and synthetic oils. 246,635; Sept. 11; Serial No. 264,101; published July 3, 1928. Class 6.
Helm & Hahn Co., Pittsburgh, Pa. Finger rings. 246,622; Sept. 11; Serial No. 265,196; published June 19, 1928. Class 28.
Helsingborgs Gummifabriks Aktiebolag, Helsingborg, Sweden. Rubber balls, lawn-tennis balls, and football bladders. 246,741; Sept. 11; Serial No. 265,540; published June 26, 1928. Class 22.
Hendler Creamery Company, The, Baltimore, Md. Ice cream. 246,618; Sept. 11; Serial No. 265,156; published June 19, 1928. Class 46.
Herbert Hosiery Mills, Inc., Norristown, Pa. Socks for infants and children. 246,634; Sept. 11; Serial No. 264,105; published June 5, 1928. Class 39.
Heyl-Beringer Farbenfabriken A.-G., Charlottenburg, Germany. Dyestuffs, dyes, and rust-preventing dyes. 246,740; Sept. 11; Serial No. 265,542; published June 19, 1928. Class 6.
Hickey-Freeman Co., Rochester, N. Y. Suits and overcoats. 246,644; Sept. 11; Serial No. 264,820; published June 12, 1928. Class 39.
Hickory Handkerchief Company. (See Webb, Mary R.)
Hillyard Chemical Company, St. Joseph, Mo. Floor polish and floor dressing. 246,538; Sept. 11; Serial No. 264,881; published June 19, 1928. Class 16.
Hilton Company, Inc., The, Newark, N. J. Shirts. 246,772; Sept. 11; Serial No. 252,601; published June 5, 1928. Class 39.
Holbert-Longley Manufacturing Co., Chattanooga, Tenn. Work shirts, overalls, etc. 246,569; Sept. 11; Serial No. 263,702; published June 26, 1928. Class 39.
Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. 246,645; Sept. 11; Serial No. 264,684; published June 5, 1928. Class 39.
Home Products Company. (See Nassif, David.)
Holmes-Darst Coal Company, Cincinnati, Ohio. Coal. 246,811; Sept. 11. Class 1.
Horse Shoe Malt Company, Camden, N. J. Malt syrup. 246,617; Sept. 11; Serial No. 265,157; published June 19, 1928. Class 46.
Horton Manufacturing Company, The, Bristol, Conn. Fishing lines. 246,537; Sept. 11; Serial No. 264,883; published June 19, 1928. Class 22.
Howard, Corrine, Oakland, Pittsburgh, Pa. Preparations in the form of wax, etc., for eradicating superfluous hair. 246,483; Sept. 11; Serial No. 263,947; published June 26, 1928. Class 6.
Hub Shoe Company, Boston, Mass. Women's shoes. 246,802; Sept. 11; Serial No. 257,027; published June 12, 1928. Class 39.
Hull, Horace H., doing business as Mod-A-Oil Co., Memphis, Tenn. Lubricating oils and grease. 246,511; Sept. 11; Serial No. 264,374; published June 19, 1928. Class 15.
Humphrey, James L., jr., New Bedford, Mass. Poultry and eggs. 246,626; Sept. 11; Serial No. 265,335; published June 26, 1928. Class 46.
Hurwitt Co. Inc., The New York, N. Y. Cravats, mufflers, men's and boys' hosiery, etc. 246,555; Sept. 11; Serial No. 261,257; published June 19, 1928. Class 39.
Hyman, Max, & Son, Inc., New York, N. Y. Shirts, coats, jackets, etc. 246,817; Sept. 11. Class 39.
Ichthyol Co., The, Rahway, N. J. Dermatological sulphur compound. 246,733; Sept. 11; Serial No. 265,968; published June 26, 1928. Class 6.
International Braid Company, Providence, R. I. Lacings, tapes, beltings, etc. 246,814; Sept. 11. Class 40.
International Milling Company, doing business as Western Flour Mills, Minneapolis, Minn., and Davenport, Iowa. Wheat flour. 246,587; Sept. 11; Serial No. 265,795; published June 19, 1928. Class 46.
Ionescu-Ardeal, I., Chicago, Ill. Phonograph records. 246,730; Sept. 11; Serial No. 265,420; published June 26, 1928. Class 36.
Iowana Farms. (See French, G. Watson.)
Jacobs Brothers, Incorporated, Baltimore, Md. Nurses' uniforms, dresses, and aprons. 246,638; Sept. 11; Serial No. 263,826; published June 5, 1928. Class 39.
Jaden, Fred I., doing business as F. Jaden Manufacturing Co., Hastings, Nebr. Oil cans. 246,697; Sept. 11; Serial No. 260,571; published July 3, 1928. Class 2.
Jindrich, George W., doing business as Jindrich's Drug Store, Chicago, Ill. Preparation for the treatment of boils, etc. 246,732; Sept. 11; Serial 265,385; published June 26, 1928. Class 6.
Johnson, Nestor, Manufacturing Company, Chicago, Ill. Ice skates. 246,706 Sept. 11; Serial No. 256,347; published June 19, 1928. Class 22.
Johnstone, Charles T., doing business as The Opex Co., New York, N. Y. Medicinal preparations for colds, etc. 246,497; Sept. 11; Serial No. 262,715; published June 26, 1928. Class 6.
Joy, Charles L., & Company, doing business as Joy Drug Stores, Boise, Idaho. Skin and complexion lotion. 246,474; Sept. 11; Serial No. 264,109; published June 19, 1928. Class 6.
Kaufherr & Co., Newark, N. J. Leather made from reptile skins. 246,542; Sept. 11; Serial No. 264,823; published June 19, 1928. Class 1.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Portfolios, brief cases, and luggage. 246,592; Sept. 11; Serial No. 265,386; published June 26, 1928. Class 3.
Keehn Brothers, Chicago, Ill. Leather shoes. 246,595; Sept. 11; Serial No. 263,608; published June 12, 1928. Class 39.
Kellogg Seed Company, Milwaukee, Wis. Seeds. 246,685; Sept. 11; Serial No. 258,947; published June 19, 1928. Class 1.
Kemper Radio Corporation, Los Angeles, Calif. Radio receiving sets. 246,614; Sept. 11; Serial No. 265,216; published June 26, 1928. Class 21.
Kenilworth Manufacturing Co. Inc., New York, N. Y. Middies and knickers, etc. 246,643; Sept. 11; Serial No. 263,215; published June 5, 1928. Class 39.
Kinscherf, William, Company, Inc., New York, N. Y. Finger rings, bracelets, pendants, etc. 246,751; Sept. 11; Serial No. 264,625; published June 19, 1928. Class 28.
Kisker, Arthur H., doing business as Arthur H. Kisker & Co., Cincinnati, Ohio. Eggs. 246,795; Sept. 11; Serial No. 260,021; published June 19, 1928. Class 46.
Kline, E. A., doing business as E. A. Kline & Co., New York, N. Y. Coffee, tea, extracts for flavoring foods, spices, etc. 246,514; Sept. 11; Serial No. 264,310; published June 19, 1928. Class 46.
Koln-Rottweil Aktiengesellschaft, Berlin, Germany. Dresses, pajamas, gloves, trousers, sweaters, etc. 246,664; Sept. 11; Serial No. 219,434; published June 5, 1928. Class 39.
Krank, Alfred J., doing business as A. J. Krank Manufacturing Company, St. Paul, Minn. Facial creams. 246,667; Sept. 11; Serial No. 218,855; published June 26, 1928. Class 6.
Kuppenheimer, B. & Co., Inc., Chicago, Ill. Coats, vests, trousers, and overcoats. 246,598; Sept. 11; Serial No. 264,520; published June 5, 1928. Class 39.
Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Rice. 246,586; Sept. 11; Serial No. 246,645; Sept. 11; Serial No. 262,737; Sept. 11; Serial No. 265,666; published June 26, 1928. Class 46.
Lalla, John F., Company, Chicago, Ill. Dried Lima beans, navy beans, peas, etc.
La-Lo Chemical Company, Inc., Providence, R. I. Lubricating oils and lubricating greases. 246,610; Sept. 11; Serial No. 262,226; published June 19, 1928. Class 15.
Lampton, Crane & Ramey Co., Louisville, Ky. Paste paints, varnishes, paint oils, etc. 246,752; Sept. 11; Serial No. 264,629; published June 19, 1928. Class 16.
Landes, Ruth E., New York, N. Y. Sanitary milk-bottle cover. 246,699; Sept. 11; Serial No. 260,573; published June 5, 1928. Class 50.
Larsen, Hans P., Salinas, Calif. Condiments, canned fruits, etc. 246,659; Sept. 11; Serial No. 234,135; published June 26, 1928. Class 46.
Laro-Wax Products. (See Minkler, Frank A.)
Lasker & Bernstein, Inc., New York, N. Y. Chamois skin. 246,609; Sept. 11; Serial No. 262,228; published June 12, 1928. Class 1.
Laskin, Benjamin, Philadelphia, Pa. Bloomers, brassières, chemises, etc. 246,711; Sept. 11; Serial No. 256,675; published June 5, 1928. Class 39.
Laubach, Dayton W., Philadelphia, Pa. Salve. 246,487; Sept. 11; Serial No. 263,092; published June 26, 1928. Class 6.
Le Roy Shirt Co., New York, N. Y. Shirts, pajamas, and underwear. 246,640; Sept. 11; Serial No. 263,650; published June 5, 1928. Class 39.
Levitt Millinery Company, St. Louis, Mo. Hats. 246,625; Sept. 11; Serial No. 263,160; published June 5, 1928. Class 39.
Lichtenberger-Ferguson Company, Los Angeles, Calif. Sole leather. 246,651; Sept. 11; Serial No. 244,781; published June 19, 1928. Class 1.

Lindsay, J. S., Toledo, Ohio. Mush and a spread for sandwiches. 246,545; Sept. 11; Serial No. 262,097; published June 19, 1928. Class 46.
Los Angeles Creamery Co., Los Angeles, Calif. Ice cream, dairy products. 246,660; Sept. 11; Serial No. 226,666; published June 19, 1928. Class 46.
Los Angeles Creamery Co., Los Angeles, Calif. Eggs, ice cream, dairy products. 246,661; Sept. 11; Serial No. 226,667; published June 19, 1928. Class 46.
Lufrie Co., Inc., The, New York, N. Y. Brushes, brooms, whisk brooms, mops, and dusters. 246,550; Sept. 11; Serial No. 261,889; published June 19, 1928. Class 29.
Lynch, Charles E., Shoe Manufacturing Co., Inc., The, New York, N. Y. Leather boots and shoes. 246,690; Sept. 11; Serial No. 257,686; published June 26, 1928. Class 39.
MacCarthy, Florence B., Philadelphia, Pa. Poison gas. 246,681; Sept. 11; Serial No. 265,339; published June 19, 1928. Class 6.
Mama's Ravioli Company, assignor, by mesne assignments, to M. S. Pencin, Los Angeles, Calif. Ravioli and mushroom sauce. 246,650; Sept. 11; Serial No. 245,279; published June 26, 1928. Class 46.
Manicurex Company, The. (See Wilson, Annetta M.)
Manning, Bowman & Co., Meriden, Conn. Electrical appliances. 246,739; Sept. 11; Serial No. 265,554; published June 26, 1928. Class 21.
Manville Jenckes Co., Pawtucket, R. I. Scarfs. 246,780; Sept. 11; Serial No. 247,957; published June 5, 1928. Class 39.
Markwett Co., Boston, Mass. Dresses for women. 246,797; Sept. 11; Serial No. 259,500; published May 29, 1928. Class 39.
Marshak Maltmolak Co. Inc., Brooklyn, N. Y. Marshmallow bars. 246,820; Sept. 11. Class 46.
Martin, Samuel A., Seattle, Wash. Overcoats for men and women. 246,552; Sept. 11; Serial No. 261,761; published June 12, 1928. Class 39.
May, Frederick C., New York, N. Y. Articles of jewelry. 246,725; Sept. 11; Serial No. 265,488; published June 26, 1928. Class 28.
McCann, George C., doing business as Saliva Research Laboratories, Danville, Ill. Powder mouth wash. 246,541; Sept. 11; Serial No. 264,830; published June 26, 1928. Class 6.
McCord, John D., Manila, P. I. Desiccated coconut. 246,653; Sept. 11; Serial No. 243,870; published June 26, 1928. Class 46.
McCreery, James & Company. (See Feinberg & Sussberg, Inc., assignor.)
McKesson & Robbins, Incorporated, Bridgeport, Conn. Cold and grippe tablets. 246,495; Sept. 11; Serial No. 262,737; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Cold and grippe tablets. 246,496; Sept. 11; Serial No. 262,733; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Mineral oil for medicinal use. 246,502; Sept. 11; Serial No. 264,440; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Mineral oil. 246,503; Sept. 11; Serial No. 264,438; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Mustard ointment. 246,504; Sept. 11; Serial No. 264,437; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Deodorant. 246,577; Sept. 11; Serial No. 263,504; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. General tonic. 246,742; Sept. 11; Serial No. 264,447; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Mineral oil. 246,743; Sept. 11; Serial No. 264,449; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment for burns, scalds, etc. 246,744; Sept. 11; Serial No. 264,451; published June 19, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. General tonic. 246,745; Sept. 11; Serial No. 264,453; published June 19, 1928. Class 6.
Menley & James, Limited, New York, N. Y. Nutritive food tonic. 246,790; Sept. 11; Serial No. 260,183; published June 26, 1928. Class 6.
Metal Ware Corporation, Two Rivers, Wis. Electrical coffee and tea percolators. 246,480; Sept. 11; Serial No. 264,035; published June 19, 1928. Class 21.
Milward, Henry, & Sons Limited, Redditch, England. Fishing tackle. 246,567–8; Sept. 11; Serial Nos. 263,716–17; published June 26, 1928. Class 22.
Minkler, Frank A., doing business as LaRo-Wax Products, Detroit, Mich. Salve. 246,729; Sept. 11; Serial No. 265,442; published June 26, 1928. Class 6.
Miranda, Josephine O., Los Angeles, Calif. Card games. 246,578; Sept. 11; Serial No. 263,413; published June 19, 1928. Class 22.
Mittelman, I., & Co. Inc., New York, N. Y. Dresses. 246,789; Sept. 11; Serial No. 260,187; published June 5, 1928. Class 39.
Mod-A-Oil Co. (See Hull, Horace H.)
Moffet, Charles, and M. Shapiro, Inc., New York, N. Y. Hats, caps, hat frames and linings. 246,796; Sept. 11; Serial No. 259,686; published June 5, 1928. Class 39.
Morton Co., The, Chicago, Ill. Necktie presses. 246,716; Sept. 11; Serial No. 257,376; published June 19, 1928. Class 50.
Mutual Electric and Machine Company, Hamtramck, Mich. Cut-outs, panel boards, switchboards, etc. 246,666; Sept. 11; Serial No. 220,560; published Feb. 23, 1926. Class 21.
Nassif, David, doing business as Home Products Company, Springfield, Mass. Hops. 246,803; Sept. 11; Serial No. 257,594; published June 19, 1928. Class 1.
National Bellas Hess Co. Inc., New York, N. Y. Work shirts, overalls, etc. 246,510; Sept. 11; Serial No. 264,380; published June 26, 1928. Class 39.
National Biscuit Company, New York, N. Y. Biscuits, cake, and crackers. 246,591; Sept. 11; Serial No. 265,395; published June 19, 1928. Class 46.
New Castle Leather Co., Inc., New York, N. Y. Leather. 246,566; Sept. 11; Serial No. 263,722; published June 19, 1928. Class 1.
New York Consolidated Card Co., The, Long Island City, N. Y. Playing cards. 246,536; Sept. 11; Serial No. 264,899; published June 19, 1928. Class 22.
New York Hat Stores, Inc., Los Angeles, Calif. Hats and caps. 246,671; Sept. 11; Serial No. 259,688; published June 26, 1928. Class 39.
Niagara Sprayer Company, Middleport, N. Y. Parasiticides. 246,735; Sept. 11; Serial No. 265,919; published June 19, 1928. Class 6.
Nourse Oil Company, Kansas City, Kans. Lubricating oils and lubricating greases. 246,526; Sept. 11; Serial No. 265,062; published June 19, 1928. Class 15.
Novoross & Glassman, New York, N. Y. Jewelry. 246,724; Sept. 11; Serial No. 265,493; published June 26, 1928. Class 28.
Omega Chemical Company, The, New York, N. Y. Ointment. 246,576; Sept. 11; Serial No. 263,511; published June 19, 1928. Class 6.
Oneida Community, Limited, Oneida, N. Y. Silver flatware. 246,714; Sept. 11; Serial No. 257,022; published June 26, 1928. Class 28.
Onyx Knitting Mills. (See Peterzell, Harry L.)
Opex Co., The. (See Johnstone, Charles T.)
Ordway, A. P., & Co., New York, N. Y. Sulphur bitters. 246,559; Sept. 11; Serial No. 261,139; published June 19, 1928. Class 6.
Ostro & Samit, New York, N. Y. Jewelry. 246,607; Sept. 11; Serial No. 262,480; published June 26, 1928. Class 28.
Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Lubricating oils and greases. 246,499; Sept. 11; Serial No. 263,338; published June 19, 1928. Class 15.
Owen, A. Donham, Boston, Mass. Automobile direction-signal systems, electric switches, and direction lights. 246,520; Sept. 11; Serial No. 264,255; published June 19, 1928. Class 21.
Owl Products Company. (See Wasserstrom, Nathan.)
Ozark Tungsten Company, St. Louis and Silvermine, Mo. Tungsten concentrates. 246,696; Sept. 11; Serial No. 260,583; published June 5, 1928. Class 1.
Pantone Processes Limited, London, England. Metal printing plates and blocks. 246,746; Sept. 11; Serial No. 264,472; published June 19, 1928. Class 50.
Pantone Processes Limited, London, England. Metal printing plates and blocks. 246,747; Sept. 11; Serial No. 264,476; published June 19, 1928. Class 50.
Parker Brothers Inc., Portland, Me., and Salem, Mass. Game played upon a board or field. 246,525; Sept. 11; Serial No. 265,064; published June 19, 1928. Class 22.
Parrot Speed Fastener Corporation, New York, N. Y. Stapling machines and tools. 246,812; Sept. 11. Class 23.
Patricia Petticoat Co. Inc., The, New York, N. Y. Costume slips, bloomers, and petticoats. 246,642; Sept. 11; Serial No. 263,340; published June 12, 1928. Class 39.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints, paint and varnish driers, etc. 246,588; Sept. 11; Serial No. 265,684; published June 19, 1928. Class 16.
Pencin, M. S. (See Mama's Ravioli Company, assignor.)
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Rubber sheeting. 246,535; Sept. 11; Serial No. 264,907; published June 19, 1928. Class 50.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Dresses, bloomers, etc. 246,549; Sept. 11; Serial No. 261,923; published June 5, 1928. Class 39.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 246,703; Sept. 11; Serial No. 255,024; published June 26, 1928. Class 28.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Liquid binder for forming cores for castings. 246,590; Sept. 11; Serial No. 265,495; published June 26, 1928. Class 5.
Penzel, Mueller & Co., Long Island City, N. Y. Metal clarinets. 246,528; Sept. 11; Serial No. 265,003; published June 19, 1928. Class 36.
Peterzell, Harry L., doing business as Onyx Knitting Mills and Hanover Knitting Mills of America, Philadelphia, Pa. Sweaters, bathing suits, knitted dresses, etc. 246,704; Sept. 11; Serial No. 255,074; published June 19, 1928. Class 39.
Plant, Thomas G., Corporation, Boston, Mass. Hosiery. 246,601; Sept. 11; Serial No. 264,257; published June 12, 1928. Class 39.
Plaza Music Company, New York, N. Y. Phonograph apparatus for recording and reproducing sounds. 246,486; Sept. 11; Serial No. 263,890; published June 19, 1928. Class 36.

Pontiac Engraving & Electrotype Co., Chicago, Ill. Zinc and copper printing plates, electrotypes. 246,708–9; Sept. 11; Serial Nos. 256,637–8; published June 5, 1928. Class 50.
Pontiac Engraving & Electrotype Co., Chicago, Ill. Zinc and copper printing plates, electrotypes. 246,710; Sept. 11; Serial No. 256,640; published June 5, 1928. Class 50.
President Novelty Jewelry Co., Inc., New York, N. Y. Gold and silver plated cuff links, scarf pins, etc. 246,757; Sept. 11; Serial No. 264,776; published June 26, 1928. Class 28.
Protecto Products Co., Los Angeles, Calif. Electric controls for devices. 246,663; Sept. 11; Serial No. 224,048; published June 19, 1928. Class 21.
Pulaski, Andrew C., doing business as Pulaski Laboratories, Rochester, N. Y. General tonic. 246,522; Sept. 11; Serial No. 264,217; published June 19, 1928. Class 6.
Quadro Games Co., Oklahoma City, Okla. Table games played with pieces. 246,479; Sept. 11; Serial No. 264,049; published June 19, 1928. Class 22.
Quaker Hosiery Company, Inc., Philadelphia, Pa. Hosiery. 246,639; Sept. 11; Serial No. 263,788; published June 5, 1928. Class 39.
Raab, M. H., Co., Philadelphia, Pa. Dress, negligee, and work shirts. 246,606; Sept. 11; Serial No. 262,486; published June 19, 1928. Class 39.
Raymond Syndicate, Inc., Boston, Mass. Shirts, underwear, trousers, etc. 246,687; Sept. 11; Serial No. 263,893; published June 12, 1928. Class 39.
Rice-Stix Dry Goods Company, St. Louis, Mo. Underwear. 246,670; Sept. 11; Serial No. 254,096; published June 5, 1928. Class 39.
Rich-Craft Studios, Inc., Jamestown, N. Y. Plaques, statuettes, wall sconces, and candlesticks. 246,686; Sept. 11; Serial No. 258,192; published June 5, 1928. Class 50.
Richfield Oil Company of California, Los Angeles, Calif. Lubricating oil. 246,575; Sept. 11; Serial No. 263,516; published June 19, 1928. Class 15.
Rockbestos Products Corporation, New Haven, Conn. Heater cords and other electrical conductors. 246,533–4; Sept. 11; Serial Nos. 264,914–15; published June 19, 1928. Class 21.
Rockland Chemical Co., Newark, N. J. Disinfectants. 246,734; Sept. 11; Serial No. 265,930; published June 19, 1928. Class 6.
Rosenwald, Max, New York, N. Y. Brushes. 246,698; Sept. 11; Serial No. 260,470; published June 19, 1928. Class 29.
Ross Manufacturing Company, Kansas City, Mo. Aluminum-alloy shavings. 246,532; Sept. 11; Serial No. 264,917; published June 19, 1928. Class 14.
Royal Robes, Inc., New York, N. Y. Bath robes and slippers. 246,749; Sept. 11; Serial No. 264,608; published June 26, 1928. Class 39.
Rowe, Howard A., Omaha, Nebr. Adhesive medicated plaster. 246,723; Sept. 11; Serial No. 265,499; published June 19, 1928. Class 6.
Rudolph, Meyer, Shoe Company, Chicago, Ill. Shoes. 246,521; Sept. 11; Serial No. 264,250; published June 19, 1928. Class 39.
S & D Jewelry Mfg. Co. Inc., doing business as S D Watch Case Co., New York, N. Y. Watches and watch-cases. 246,489; Sept. 11; Serial No. 263,051; published June 6, 1928. Class 27.
Sacks, Louis, Inc., doing business as Louis Sacks Iron Foundry, Newark, N. J. Iron castings. 246,715; Sept. 11; Serial No. 257,177; published June 19, 1928. Class 14.
Sager Glove Corporation, Chicago, Ill. Leather gloves. 246,676; Sept. 11; Serial No. 259,823; published May 29, 1928. Class 39.
Saliva Research Laboratories. (See McCann, George C.)
Sample, Hallie L., Muncie, Ind. Cough medicines. 246,478; Sept. 11; Serial No. 264,051; published June 19, 1928. Class 6.
Sanitarium Equipment Company, Battle Creek, Mich. Therapeutic lamps. 246,722; Sept. 11; Serial No. 265,501; published June 26, 1928. Class 44.
Schneider & London, Inc., New York, N. Y. Finger rings, brooches, stick pins, etc. 246,692; Sept. 11; Serial No. 260,755; published June 19, 1928. Class 28.
Schnelerson, I., & Son, New York, N. Y. Chemises, bloomers, etc. 246,775–6; Sept. 11; Serial Nos. 252,348–9; published June 5, 1928. Class 39.
Scoville, Brown & Company, Wellsville, N. Y. Olives, rice, macaroni, etc. 246,777; Sept. 11; Serial No. 249,813; published June 19, 1928. Class 46.
Seymour-Howard Corporation, Chicago, Ill. Lubricating oils and greases, cutting oils, etc. 246,683; Sept. 11; Serial No. 259,026; published June 26, 1928. Class 15.
Shenfeld, Max, doing business as Shenfeld Leather Goods Co., New York, N. Y. Ladies' hand bags and pocketbooks. 246,799; Sept. 11; Serial No. 259,376; published June 19, 1928. Class 3.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, japans, varnishes, etc. 246,774; Sept. 11; Serial No. 252,572; published June 19, 1928. Class 16.
Shield Hat Company, Inc., San Francisco, Calif. Ladies' and misses' hats. 246,493; Sept. 11; Serial No. 262,821; published June 5, 1928. Class 39.
Shipley & Sons, Philadelphia, Pa. Shoes. 246,800; Sept. 11; Serial No. 259,141; published June 12, 1928. Class 39.
Shoe Lace Company, Ltd., Providence, R. I. Shoe lacings. 246,809; Sept. 11. Class 40.
Shu-Stiles, Incorporated, St. Louis, Mo. Women's shoes. 246,788; Sept. 11; Serial No. 260,195; published Apr. 24, 1928. Class 39.
Sloan Chemical Company, Incorporated, St. Paul, Minn. Liquid insecticide. 246,765; Sept. 11; Serial No. 266,278; published June 26, 1928. Class 6.
Smith Brothers Hardware Company, The, Columbus, Ohio. Batteries. 246,564; Sept. 11; Serial No. 263,834; published June 26, 1928. Class 21.
Smith & Crosby, Attleboro, Mass. Bracelets and wrist-watch holders. 246,721; Sept. 11; Serial No. 265,505; published June 26, 1928. Class 21.
Smith, E. A., Duluth, Minn. Cough drops. 246,662; Sept. 11; Serial No. 225,891; published June 26, 1928. Class 6.
Smith, Kirkpatrick & Co., Inc., New York, N. Y. Ladies' hosiery. 246,785; Sept. 11; Serial No. 260,856; published June 5, 1928. Class 39.
Sowell, Marion C., Gastonia, N. C. Pie-crust preparation. 246,649; Sept. 11; Serial No. 264,850; published June 19, 1928. Class 46.
Spratt's Patent (America) Limited, London, England. Dog food. 246,589; Sept. 11; Serial No. 265,581; published June 19, 1928. Class 46.
Squindo, Peter, New Brunswick, N. J. Spaghetti sauce. 246,731; Sept. 11; Serial No. 265,414; published June 26, 1928. Class 46.
Standfort Spice Co., Inc., New York, N. Y. Liquid pickling spice. 246,527; Sept. 11; Serial No. 265,022; published June 19, 1928. Class 46.
Stearns & Foster Company, The, Lockland, Ohio. Cotton batting. 246,470; Sept. 11; Serial No. 264,208; published June 5, 1928. Class 1.
Stein, A., & Company, Chicago, Ill. Baby pants of rubber and rubber and fabric. 246,513; Sept. 11; Serial No. 264,381; published June 19, 1928. Class 39.
Stern Brothers, New York, N. Y. Gloves. 246,798; Sept. 11; Serial No. 259,430; published June 5, 1928. Class 39.
Stewart-Dawes Shoe Co., Los Angeles, Calif. Shoes. 246,701; Sept. 11; Serial No. 260,296; published June 26, 1928. Class 39.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Electric cigar lighters. 246,684; Sept. 11; Serial No. 258,963; published June 19, 1928. Class 21.
Stoffel, Peter T., Racine, Wis. Underlay fabric for rugs. 246,531; Sept. 11; Serial No. 264,922; published June 26, 1928. Class 50.
Stone, M. C., & Son Company, Lewiston, Me. Men's and boys' wearing apparel. 246,557–8; Sept. 11; Serial Nos. 261,157–8; published June 19, 1928. Class 39.
Strong, George, Company. (See Fitzpatrick, Jeremiah.)
Stuart, A. V., doing business as A. V. Stuart Olive Canning Company, Ripon, Calif. Canned olives. 246,616; Sept. 11; Serial No. 265,174; published June 19, 1928. Class 46.
Stuart, A. V., doing business as A. V. Stuart Olive Canning Co., Ripon, Calif. Canned olives. 246,738; Sept. 11; Serial No. 265,584; published June 26, 1928. Class 46.
Superla Laboratories, Inc., Chicago, Ill. Polish or gloss. 246,621; Sept. 11; Serial No. 265,125; published June 26, 1928. Class 16.
Swift and Company, Chicago, Ill. Gelatin. 246,768; Sept. 11; Serial No. 266,054; published June 26, 1928. Class 46.
Sylvester, Louis G., Scranton, Pa. Electrical phonograph pick-up. 246,524; Sept. 11; Serial No. 265,075; published June 26, 1928. Class 21.
Sylvester, Louis G., Scranton, Pa. Electrical reproducers and amplifiers, etc. 246,540; Sept. 11; Serial No. 264,852; published June 26, 1928. Class 21.
Telling Belle Vernon Company, The, Cleveland, Ohio. Flavored milk drink. 246,485; Sept. 11; Serial No. 263,899; published June 19, 1928. Class 46.
Titman Egg Corporation, New York, N. Y. Frozen eggs. 246,593; Sept. 11; Serial No. 265,024; published June 19, 1928. Class 46.
Torch Oil Company, St. Louis, Mo. Gasoline. 246,565; Sept. 11; Serial No. 263,735; published June 19, 1928. Class 15.
Totty Trunk & Bag Co., Inc., Petersburg, Va. Phonographs. 246,680; Sept. 11; Serial No. 265,348; published June 26, 1928. Class 36.
Tyler, Earl A., doing business as Tyler Products Co., Pawtucket, R. I. Food-flavoring syrup. 246,620; Sept. 11; Serial No. 265,128; published June 26, 1928. Class 46.
United States Rubber Company, New York, N. Y. Golf balls. 246,613; Sept. 11; Serial No. 265,242; published June 19, 1928. Class 22.
Valentine, Samuel, Co. Inc., New York, N. Y. Shirts, nightshirts, and pajamas. 246,641; Sept. 11; Serial No. 263,520; published June 5, 1928. Class 39.
Wallach Brothers, New York, N. Y. Shirts, pajamas, underwear, etc. 246,594; Sept. 11; Serial No. 263,627; published June 12, 1928. Class 39.
Wasserstrom, Nathan, doing business as Owl Products Company, Columbus, Ohio. Malt syrup. 246,767; Sept. 11; Serial No. 266,065; published June 26, 1928. Class 46.

Webb, Mary R., doing business as Hickory Handkerchief Company, Hickory, N. C. Handkerchiefs. 246,771; Sept. 11; Serial No. 266,001; published June 19, 1928. Class 42.

Weeks, Elling O., doing business as Dynamo Timer Co., Milwaukee, Wis. Timers. 246,762; Sept. 11; Serial No. 247,232; published June 26, 1928. Class 21.

Weinberg, Ph., & Sons, New York, N. Y. Men's clothing. 246,519; Sept. 11; Serial No. 264,268; published June 19, 1928. Class 39.

Weintraub, Samuel, New York, N. Y. Watchcases. 246,792; Sept. 11; Serial No. 260,153; published June 19, 1928. Class 27.

Western Flour Mills. (See International Milling Company.)

Western Stamping and Manufacturing Company, St. Paul, Minn. Metal signs, road signs, and trail markers. 246,654; Sept. 11; Serial No. 241,913; published June 5, 1928. Class 50.

Westing Appliance Co., Wheeling, W. Va. Vibratory massage apparatus. 246,750; Sept. 11; Serial No. 264,621; published June 26, 1928. Class 44.

Westinghouse Union Battery Company, Swissvale, Pa. Secondary batteries. 246,720; Sept. 11; Serial No. 265,510; published June 26, 1928. Class 21.

Westinghouse Union Battery Company, Swissvale, Pa. Secondary batteries. 246,759; Sept. 11; Serial No. 264,788; published June 26, 1928. Class 21.

White, George S., Los Angeles, Calif. Magnetic medical apparatus. 246,807; Sept. 11; Class 44.

White, Morris, Inc., New York, N. Y. Ladies' hand bags. 246,585; Sept. 11; Serial No. 266,160; published June 19, 1928. Class 3.

Wide Awake Shirt Company, Inc., Reading, Pa. Dress, negligee, and work shirts for men and boys. 246,491; Sept. 11; Serial No. 262,989; published June 19, 1928. Class 39.

Wiegand, Edwin L., Company, Pittsburgh, Pa. Electric air or space heaters, electric dryers, and ovens for industrial uses, etc. 246,652; Sept. 11; Serial No. 244,120; published June 26, 1928. Class 21.

Willson & Parr, Inc., Chicago, Ill. Platinum finger rings. 246,548; Sept. 11; Serial No. 261,921; published June 19, 1928. Class 28.

Wilson, Annetta M., doing business as The Manicurex Company, Indianapolis, Ind. Cord. 246,805; Sept. 11. Class 44.

Wilson-Western Sporting Goods Company, Chicago, Ill. Baseball gloves. 246,782; Sept. 11; Serial No. 254,738; published June 19, 1928. Class 22.

Witte, E. B., doing business as Heal-O-l Laboratories, Trenton, N. J. Antiseptic solution. 246,787; Sept. 11; Serial No. 260,302; published July 3, 1928. Class 6.

Wolf, A. N., Shoe Company, Denver, Pa. Misses' and children's leather shoes. 246,484; Sept. 11; Serial No. 263,909; published June 19, 1928. Class 39.

Wright Brothers Pharmacal Laboratory, Orange, N. J. Ointment. 246,512; Sept. 11; Serial No. 264,340; published June 19, 1928. Class 6.

Yeo, Samuel P., doing business as Bank Vault Inspection Company, The, Philadelphia, Pa. Rotary safes, keys, locks, etc. 246,806; Sept. 11. Class 25.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Challenge Cream and Butter Association, Los Angeles, Calif. Banner Milk. For Unsweetened Evaporated Milk. 34,546; Sept. 11.

Frisch, Emile, Chicago, Ill. Frisch Process. For Bread. 34,547; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Brav Shoe Co. Inc. For Boxes. 34,548; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Dr. Shibe's. For Boxes. 34,549; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Dickson-Ives Company. For Boxes. 34,550; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Gilchrist's. For Boxes. 34,551; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Prosperity Shoe Co. Inc. For Boxes. 34,552; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Litvack Shoe Co. For Boxes. 34,553; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Whiddon's. For Boxes. 34,554; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Henri Boot Shop. For Boxes. 34,555; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. The French Bootery. For Boxes. 34,556; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Hageman's. For Boxes. 34,557; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Saxon Cullum Shoe Co. For Boxes. 34,558; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. C. E. Stone Co. For Boxes. 34,559; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Parisian Style By Maurice. For Boxes. 34,560; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. The Guarantee Shoe Co. For Boxes. 34,561; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Thayer McNeil Company. For Boxes. 34,562; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Carcion Manfre & Co. For Boxes. 34,563; Sept. 11.

Hoague-Sprague Corporation, Lynn, Mass. Crowley Milner & Co. For Boxes. 34,564; Sept. 11.

Hoyden, K., Co., Monterey, Calif. Sard'nola. For Canned Sardines. 34,565; Sept. 11.

Kurfees, J. F., Paint Company, Inc., Louisville, Ky. 80 And 20—100%. For Prepared Paint. 34,566; Sept. 11.

Lewandowski, Leon P., Columbus, Nebr. 55 Brand. For General Merchandise. 34,567; Sept. 11.

Lush'us Products Co., Chicago, Ill. Lush'us Brand Peas. For Peas. 34,568; Sept. 11.

National Oil Products Company, Inc., Harrison, N. J. Nopco Cod Liver Oil. For Cod-Liver Oil for Poultry and Animal Feeding. 34,569; Sept. 11.

Old Gold Combination White Lead & Color Corporation, New York, N. Y. Great Covering Power. For Paints. 34,570; Sept. 11.

Old Gold Combination White Lead & Color Corporation, New York, N. Y. Old Gold White Lead. For Paint. 34,571; Sept. 11.

Old Gold Combination White Lead & Color Corporation, New York, N. Y. Old Gold Zinc Lead. For Paint. 34,572; Sept. 11.

Pacific Coast Biscuit Company, Seattle, Wash. Trump Cookies. For Cookies. 34,573; Sept. 11.

Perfect Nutrition Company, San Francisco, Calif. Perfect Nutrition. For a Preparation of Dehydrated Vegetables. 34,574; Sept. 11.

Queens Laboratories, Cleveland, Ohio. Queen's Dessert. For a Dessert Preparation. 34,575; Sept. 11.

Skovbo, J. J., doing business as Skovbo Apiaries, Hermiston, Oreg. Skovbo. For Honey. 34,576; Sept. 11.

Texas Bread Company, Houston, Tex. Tex Sandwich Loaf. For Bread. 34,577; Sept. 11.

Texas Bread Company, Houston, Tex. Dixie Made Rolls. For Rolls. 34,578; Sept. 11.

The Zakas Bakery, Atlanta, Ga. Butter Bakt. For Bread. 34,580; Sept. 11.

Whiting Paper Company, Holyoke, Mass. Whiting's Cranford Vellum. For Stationery. 34,579; Sept. 11.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Black, Starr & Frost, New York, N. Y. The King's Messenger Rode Far Bearing the Illuminated Scrolls of His Royal Master. For Personal Stationery. 11,200; Sept. 11.

Cream of Wheat Co., Minneapolis, Minn. For the Hot Days Ahead. For Wheat Breakfast Food. 11,207; Sept. 11.

Hanover Shirt Company, Baltimore, Md. Here's Why Hanover Shirts Are Superior. For Shirts. 11,208; Sept. 11.

Johnson-Handley-Johnson Company, Grand Rapids, Mich. Dynamique Creations. For Wooden Household Furniture. 11,209; Sept. 11.

Keck, Will G., Mount Pleasant, Pa. Say Kecks. For a Beverage—Namely, Cocoa. 11,210; Sept. 11.

United Products Company, Cleveland, Ohio. Syfo. For Valves. 11,211; Sept. 11.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Products Limited, Winnipeg, Canada, and Detroit, Mich. Medicines. 265,513; Sept. 11. Class 6.

Aguirre, Charles, New York, N. Y. Deodorant powder. 268,259; Sept. 11. Class 6.

Alley Company, The, New Bedford, Mass. Food compound of rice, tapioca, and arrowroot. 269,216; Sept. 11. Class. 46.

Alloy Boat Corporation, Buffalo, N. Y. Outboard boats. 269,817; Sept. 11. Class 19.

Amazon Knitting Company, Muskegon, Mich. Underwear. 269,381–2; Sept. 11. Class 39.

American Brass Company, The, Waterbury, Conn. Bronze ingots, castings, etc. 267,475–6; Sept. 11. Class 14.

American Perforator Co., The, Chicago, Ill. Indorsing-machine ink. 268,069; Sept. 11. Class 11.

American Worsted Mills, Esterly, Pa. Cotton woven cloth. 263,114; Sept. 11. Class 42.

Amorskin Corporation, New York, N. Y. Face cream. 270,273; Sept. 11; Class 6.

Anti-Frost Company. (See Cahill, Thomas P.)

Archer Rubber Products Co. Inc., New York, N. Y. Mats and floor covering made of rubber, etc. 269,762; Sept. 11. Class 20.

Arkadelphia Milling Co., Arkadelphia, Ark. Wheat flour, meal, horse feed, etc. 269,441; Sept. 11. Class 46.

Armstrong Cork & Insulation Company, Pittsburgh and Lancaster, Pa. Boards or sheets made of cork. 269,176; Sept. 11. Class 12.

Art Button Novelty M'F'G. Co., Inc., New York, N. Y. Buttons. 266,452; Sept. 11. Class 40.

Automatic Electric Inc., Chicago, Ill. Automatic telephone systems. 264,746; Sept. 11. Class 21.

Barrett Company, The, New York, N. Y. Organic and inorganic chemicals—namely, sulphate of ammonia, nitrate of soda, etc. 270,411; Sept. 11. Class 6.

Bartons Bias Company, New York, N. Y. Bias bindings, bias fagoting braid, elastic, shoulder straps, etc. 265,879; Sept. 11. Class 40.

Bear Mill Manufacturing Co., Inc., New York, N. Y. Cotton, silk, or mixed silk and cotton goods. 245,690; Sept. 11. Class 42.

Beats-All Co., Chicago, Ill. Cleaner and polish. 269,275; Sept. 11. Class 16.

Beiersdorf, P., & Co. Inc., New York, N. Y. Toilet cream. 269,343; Sept. 11. Class 6.

Bendel, Henri Inc., New York, N. Y. Perfumes and hygienic products. 270,275; Sept. 11. Class 6.

Bendiner & Schlesinger, Inc., New York, N. Y. Rubbing alcohol. 269,885; Sept. 11. Class 6.

Benjamin & Johnes, Newark, N. J. Corset brassière combinations. 269,443; Sept. 11. Class 39.

Bercy Laboratories. (See Fleron, M. M., & Son, Inc.)

Bilhubor, E., Inc. New York, N. Y. Medicine. 270,458; Sept. 11. Class 6.

Blackwood Coal and Coke Company, Philadelphia, Pa. Bituminous coal. 260,209; Sept. 11. Class 1.

Blickenstaff, J. E., & Sons, Modesto, Calif. Fresh deciduous fruits, etc. 267,925; Sept. 11. Class 46.

Block, Joseph, doing business as Block-Bilt Battery Co., New York, N. Y. Batteries. 259,992; Sept. 11. Class 21.

Blomberg, Axel R., Stockholm, Sweden. Radioactive cloth, etc. 269,711; Sept. 11. Class 44.

Blum, J. Samuel, doing business as Blum and Company, San Francisco, Calif. Nuts and candies. 270,412; Sept. 11. Class 46.

Bonide Chemical Co. Inc., Utica, N. Y. Preparation for protecting seed against birds, etc. 270,531; Sept. 11. Class 6.

Bowman, Birney W., Cleveland, Ohio. Score-calculating devices. 270,108; Sept. 11. Class 22.

Brake Equipment and Supply Company, Chicago, Ill. Repair parts for air-brake equipment—namely, piston rings and gaskets. 270,233; Sept. 11. Class 35.

Broad Brook Co., Broad Brook, Conn. Overcoating fabrics. 262,507; Sept. 11. Class 42.

Brown Instrument Company, The, Philadelphia, Pa. Potentiometers for measuring electrical potentials, etc. 263,374; Sept. 11. Class 26.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Smoking and chewing tobacco and cigarettes. 270,277; Sept. 11. Class 17.

Brucks and Peyser, New York, N. Y. Thread and yarn. 270,738; Sept. 11. Class 43.

Brush, Harvey E., Marshalltown, Iowa. Liquid preparation for the external treatment of diseases and poisoning of the skin. 270,317; Sept. 11. Class 6.

Cahill, Thomas P., doing business as Anti-Frost Company, Philadelphia, Pa. Liquid preparation for frostbites and chilblains. 268,420; Sept. 11. Class 6.

Callahan, C., Company, The, La Fayette, Ind. Canned fruits, vegetables, etc. 248,552; Sept. 11. Class 46.

Cape Ann Isinglass Company, Boston, Mass. Adhesive isinglass. 269,084; Sept. 11. Class 5.

Carthage Mills Incorporated Cincinnati, Ohio. Linoleum. 266,355; Sept. 11. Class 20.

Catalina Hats, Inc., San Francisco, Calif. Ladies' and misses' hats. 251,298; Sept. 11. Class 39.

Celanese Corporation of America, New York, N. Y. Fabrics in the piece. 268,677; Sept. 11. Class 42.

Century Ribbon Mills, Inc. (Ernest & Herman Levy), New York, N. Y. Ribbons. 269,577; Sept. 11. Class 42.

Charleston Manufacturing Co., Charleston, W. Va. Overalls, work jackets, and coveralls. 268,772; Sept. 11. Class 39.

Charmette Co. Inc., New York, N. Y. Noninflammable cellulose material for windshields, optical frames, watch crystals, etc. 264,714; Sept. 11. Class 1.

Cheramy, Inc., New York, N. Y. Toilet soaps and shaving cream. 270,368; Sept. 11. Class 4.

Cheramy, Inc., New York, N. Y. Perfumes, toilet water, face powder, etc. 270,369; Sept. 11. Class 6.

Chicago Mail Order Company, Chicago, Ill. Coats and dresses. 265,260; Sept. 11. Class 39.

Chickasaw Thread Company, Shelby, N. C. Thread and yarn. 269,716; Sept. 11. Class 43.

Coachella Valley Grape Growers Assn., Coachella, Calif. Grapes. 265,197; Sept. 11. Class 46.

Cobb & Jenkins, New York, N. Y. Raised-pile woolen fabric. 266,021; Sept. 11. Class 42.

Cohen & Wilkes, Limited, Cheetham, England. Rainproof coats, topcoats, suits, etc. 262,842; Sept. 11. Class 39.

Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Preparation for the reduction of obesity, for the treatment of ovarian disfunction, etc. 268,586; Sept. 11. Class 6.

Coleman & Company, Inc., Philadelphia, Pa. Coal. 268,678; Sept. 11. Class 1.

Collingbourne Mills, Inc., Elgin, Ill. Golf tees. 268,212; Sept. 11. Class 22.

Collins, A. M., Manufacturing Company, Philadelphia, Pa. Blank paper, translucent paper, coated book paper, box paper, etc. 268,425; Sept. 11. Class 37.

Consulting & Radio Service, Limited, Glasgow, Scotland. Radio receiving sets. 260,808; Sept. 11. Class 21.

Corno Mills Company, The, East St. Louis, Ill. Horse feeds, poultry feeds, etc. 267,633; Sept. 11. Class 46.

Corozone Company, The, Cleveland, Ohio. Electric ozone machines. 269,638; Sept. 11. Class 21.

Cottone Bros., Inc., Brooklyn, N. Y. Olive oil. 269,639; Sept. 11. Class 46.

Crane Co., Chicago, Ill. Ferrous and nonferrous rough castings. 266,510; Sept. 11. Class 14.

Cream Dove Mfg. Co., Inc., Binghamton, N. Y. Cooking compounds. 259,052; Sept. 11. Class 46.

Cullum & Boren Company, Dallas, Tex. Hunting coats, pants, and vests, footballs trousers, etc. 266,356; Sept. 11. Class 39.

Curran, Francis J., doing business as The Zoro Company, Chicago, Ill. Deodorants, disinfectants, etc. 269,887; Sept. 11. Class 6.

Cutler-Hammer Mfg. Co., The, Milwaukee, Wis. Electric-motor-control apparatus. 269,640; Sept. 11. Class 21.

Dairy Made Ice Cream Company, Inc., Paterson, N. J. Ice cream. 268,143; Sept. 11. Class 46.

Deane, Gerard C., Yonkers, N. Y. Kidney plasters. 252,091; Sept. 11. Class 6.

De Beltrand, Jean B., New York, N. Y. Magazine. 270,071; Sept. 11. Class 38.

De Cluhn, Adam, Laboratories. (See Percival, Frank M.)

Dispepcura Medicine Company, Nuevo Laredo, Tamaulipas, Mexico. Medicine for dyspepsia. 258,799; Sept. 11. Class 6.

Doniger, S., & Co. Inc., New York, N. Y. Surgical instruments. 242,526; Sept. 11. Class 44.

Dorr, Wallie, Co. Inc., New York, N. Y. Walking pull toys. 269,437; Sept. 11. Class 22.

Doud Milling Company, Manning, Iowa. Wheat flour, breakfast cereal, etc. 251,492; Sept. 11. Class 46.

Duplex Steel Re-Enforcement Company, Liberty and Indianapolis, Ind. Steel reenforcing element. 268,592; Sept. 11. Class 12.

Duplexalite Division of the Miller Company, Meriden, Conn. Opalescent glass globes and reflectors. 261,741; Sept. 11. Class 33.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Air-tight, water-tight, acid and heat resistant fabrics. 267,942; Sept. 11. Class 50.

Durand Shoe Co., Boston, Mass. Leather shoes. 269,644; Sept. 11. Class 39.

Earl Fruit Company, San Francisco, Calif. Fresh fruits. 269,227; Sept. 11. Class 46.

Elias, G., & Bro. Inc., Buffalo, N. Y. Airplanes and structural parts. 269,775; Sept. 11. Class 19.

Elkloid Company, The. (See Koppe, Gustave E.)

Endicott Johnson Corporation, Endicott, N. Y. Rubber soles and heels and rubber footwear. 269,451; Sept. 11. Class 39.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing-reel parts. 260,106; Sept. 11. Class 22.

Enterprise Manufacturing Company, Akron, Ohio. Artificial bait. 260,107–8; Sept. 11. Class 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Everlasting Paint & Sales Company, Los Angeles, Calif. Paints. 262,601; Sept. 11. Class 16.
Fairchild Bros. & Foster, New York, N. Y. Colloidal preparation of castor oil. 270,579; Sept. 11. Class 6.
Federal Knitting Mills Company, Cleveland, Ohio. Caps. 268,274; Sept. 11. Class 39.
Finery Silk Stocking Co., Inc., New York, N. Y. Hosiery. 269,465; Sept. 11. Class 39.
Fisher, Nath'l, & Co., New York, N. Y. Shoes. 269,401; Sept. 11. Class 39.
Fix-Rite Chemical Co. (See Jones, Julius R.)
Fleron, M. M., & Son, Inc., doing business as Bercy Laboratories, Trenton, N. J. Greaseless antiseptic healing cream. 267,944; Sept. 11. Class 6.
Food Specialties Co., The, Columbus, Ohio. Malt extract for medicinal purposes. 269,838; Sept. 11. Class 6.
Fox Candy Co. (See Princess Confectionery Co.)
Fox Case Corporation, New York, N. Y. Motion pictures. 270,325–6; Sept. 11. Class 26.
Franklin, Duncan R., Brooklyn, N. Y. Personal deodorant. 270,698; Sept. 11. Class 6.
Franklin, O. M., Blackleg Serum Company, The, Denver, Colo. Blackleg vaccine. 270,290; Sept. 11. Class 6.
Fraser Products Company, Kansas City, Mo. Polishing cloths and polishing mittens chemically treated. 270,180; Sept. 11. Class 4.
Fraser Valve Corporation, Newark, N. J. Nursing bottles. 269,581; Sept. 11. Class 44.
Fries, Harold H., doing business as Fries Bros., New York, N. Y. Ethyl protocatechnic aldehyde. 264,094; Sept. 11. Class 6.
Frocks, Sally, Inc., Chicago, Ill. Ladies' and girls' frocks and dresses. 248,932; Sept. 11. Class 39.
Fulton Mattress & Bedding Co., The. (See Lichter, Max E.)
Fund, Carl T., doing business as Fund's and C. T. Fund, Chicago, Ill. Candy. 250,076; Sept. 11. Class 46.
Gerber, Alfred, Thun, Switzerland. Cheese. 270,374; Sept. 11. Class 46.
Gimbel Brothers, Inc., New York, N. Y. Women's dresses, coats, suits, and sweaters. 240,781; Sept. 11. Class 39.
Ginger Mint Julep Company, The, Baltimore, Md. Chewing gum. 268,279; Sept. 11. Class 46.
Glemby's, S., Sons Co., Inc., New York, N. Y. Permanent-waving oil and hair-curling lotion. 270,410; Sept. 11. Class 6.
Glenn, J. W., Buffalo, N. Y. Chewing-gum whistles. 262,356; Sept. 11. Class 46.
Globe Grain and Milling Company, Los Angeles, Calif. Edible oil used as a shortening. 267,251; Sept. 11. Class 46.
Goffin, S. S., doing business as Nassau Sound Packing Co., Jacksonville, Fla. Canned shrimp, vegetables, etc. 268,367; Sept. 11. Class 46.
Gomersall, G. W., Philadelphia, Pa. Men's clothing and haberdashery. 263,314; Sept. 11. Class 39.
Graham Mill & Elevator Co., Graham, Tex. Wheat flour. 269,288; Sept. 11. Class 46.
Greenfield's, E., Sons, Brooklyn, N. Y. Chocolates and candies. 270,375; Sept. 1. Class 46.
Greer Staple Cotton Breeding Farms, Iowa Park, Tex. Baled lint cottom and sacked cottonseed. 268,220; Sept. 11. Class 1.
Gustav Ruth Aktiengesellschaft, Wandsbek, Germany. Ready-mixed paints, paste paints, paint oils, etc. 265,791; Sept. 11. Class 16.
Hahn, Sig. J. F., doing business as The Hahn Laboratories, Conneaut, Ohio. Deodoratnt and disinfectant preparations, for use in the preservation of badly-decomposed bodies and the elimination of obnoxious odors and for the purification of sick rooms. 268,601; Sept. 11. Class 6.
Harris, Charles L., doing business as Harris' Drug Store, Washington, D. C. Medicinal preparation for treating coughs, colds, etc. 269,896; Sept. 11. Class 6.
Helling & Florea, Inc., New York, N. Y. Cotton cloth fabric in the piec from which gloves may be made. 268,981; Sept. 11. Class 42.
Henlon and Hubbell, Chicago, Ill. Bathtubs, sitx baths, etc. 263,945; Sept. 11. Class 13.
Herrmann, A. S., Inc., New York, N. Y. Face cloths, bath mats, bedspreads, etc. 255,914; Sept. 11. Class 42.
Hickok & Hickok, San Francisco, Calif. Logging loading tongs. 269,657; Sept. 11. Class 23.
Hinchman, William H. D., doing business as W. H. D. Hinchman Construction Co., Detroit, Mich. Blocks and sheets formed of cork and cement. 269,190; Sept. 11. Class 12.
Hollings-Smith Co., Orangeburg, N. Y. Medicine. 270,480; Sept. 11. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for chronic rheumatic, hepatic, etc., affections. 270,481; Sept. 11. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Nerve tonic and stimulant. 270,482; Sept. 11. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for the treatment of cholera morbus, etc. 270,485; Sept. 11. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for the treatment of colds. 270,486; Sept. 11. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for the treatment of dropsy, etc. 270,487; Sept. 11. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for treatment of hysteria, melancholia, etc. 270,488; Sept. 11. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for treatment of constipation. 270,489; Sept. 11. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Cough syrup. 270,490; Sept. 11. Class 6.
Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, and overshoes and rubber-soled canvas shoes. 263,401; Sept. 11. Class 39.
Horwood, E. H., & Co., Hoboken, N. J., and New York, N. Y. Sleeping garments comprising at present pajamas and nightgowns of textile fabrics. 252,845; Sept. 11. Class 39.
House of Tre-Jur, Inc., New York, N. Y. Powder puffs. 269,407; Sept. 11. Class 29.
Hutt & Wasserman, Inc., New York, N. Y. Men's hats and caps. 269,662; Sept. 11. Class 39.
India Tire & Rubber Company, Akron, Ohio. Pneumatic tires. 258,335; Sept. 11. Class 35.
Interstate Auto Parts Co., Inc., New York, N. Y. Automobile accessories. 243,314; Sept. 11. Class 21.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Gloves, pajamas, hosiery, hats, etc. 267,769; Sept. 11. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Men's, women's, and children's clothes. 267,770; Sept. 11. Class 39.
Jeffrey Manufacturing Company, The, Columbus, Ohio. Excavating, elevating, and conveying machines. 270,248; Sept. 11. Class 23.
Jewel Safe Desk Corporation, Jersey City, N. J. Desks. 270,337; Sept. 11. Class 32.
Jones, Julius R., doing business as Fix-Rite Chemical Co., Richmond, Va. Hairdressing. 269,470; Sept. 11. Class 6.
Judd Specialties Inc., Boston, Mass. Game-ball holders. 251,505; Sept. 11. Class 22.
Jumbo Lemon Company, Hamilton City, Calif. Fruit juices used for the making soft beverages. 254,139; Sept. 11. Class 45.
Kildow Cigar Company, Inc., The, Bethesda, Ohio. Cigars. 269,473; Sept. 11. Class 17.
Klein, Milton, doing business as O-Kay Laboratories, Cleveland, Ohio. Medicinal preparation for the relief of frequent desire to urinate. 270,338; Sept. 11. Class 6.
Knott, William R., Rochester, N. Y. Cleaning and polishing preparations. 269,666; Sept. 11. Class 16.
Koch, Henry F., doing business as Koch Chemical Co., Evansville, Ind. Insecticides. 270,430; Sept. 11. Class 6.
Kaplan, Joseph A., New York, N. Y. Rubber bath mats. 262,567; Sept. 11. Class 50.
Kaplan, Max, Port Chester, N. Y. Ophthalmic mountings, lenses, etc. 269,241; Sept. 11. Class 26.
Katims-Weiner Corp., New York, N. Y. Textile fabrics. 269,472; Sept. 11. Class 42.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Shirts. 268,160; Sept. 11. Class 39.
Kellogg Company, Battle Creek, Mich. Cereal breakfast food. 263,321; Sept. 11. Class 46.
King's Palace, Washington, D. C. Ladies' coats, suits, dresses, and skirts. 269,474; Sept. 11. Class 39.
Knapp Electric Corporation, Port Chester, N. Y. Toy or game. 269,962; Sept. 11. Class 22.
Koppe, Gustave E., doing business as The Elkloid Company, Providence, R. I. Dice, dice shakers, dominoes, etc. 269,352; Sept. 11. Class 22.
La Fayette Roller Mills, La Fayette, Ga. Corn meal, dairy rations, etc. 269,029; Sept. 11. Class 46.
Land Shirt Co., Orange, N. J. Men's and boys' dress and negligee shirts. 267,842; Sept. 11. Class 39.
Lander-White Co., Oakland, Calif. Preparation applied on strops for honing surgical instruments, razors, etc. 267,264; Sept. 11. Class 6.
Langdon, John W., Walla Walla, Wash. Mineral waters, etc. 258,751; Sept. 11. Class 45.
Layton, Minnie, and doing business as Laytonet Manufacturing Co., San Francisco, Calif. Ladies' headgear. 266,671; Sept. 11.
Laytonet Manufacturing Co. (See Layton, Minnie.)
Lentheric, Incorporated, New York, N. Y. Perfumes, toilet water, etc. 270,552; Sept. 11. Class 6.
Leonard, F. A., doing business as Ore Powder Co., Portland, Oreg. Dentifrice. 269,849; Sept. 11. Class 6.
Liberty Cake Company. (See Mayer, Edwin.)
Lichter, Max E., doing business as The Fulton Mattress & Bedding Co., New York, N. Y. Bedding. 265,389; Sept. 11. Class 32.
Little Sister Coats, Inc., New York, N. Y. Children's coats, hats, dresses, etc. 263,876; Sept. 11. Class 39.
Los Angeles Brewing Co., Los Angeles, Calif. Nonalcoholic beverages sold as soft drinks, syrups, etc. 267,973; Sept. 11. Class 45.
Lucile Staff, Inc., New York, N. Y. Coats and hats. 263,957; Sept. 11. Class 39.
Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. 257,426; Sept. 11. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

MacMillan Petroleum Products Company, Los Angeles, Calif. Kerosene, gasoline, etc. 267,981; Sept 11. Class 15.
Maison Jenny Société Anonyme, Paris, France. Perfumed cream for toilet use. 270,382; Sept. 11. Class 6.
Manbeck Baking Company, Lemoyne, Pa. Bread. 270,639; Sept. 11. Class 46.
Manhattan Drug Company, Brooklyn, N. Y. Tooth powder, paste and wash. 265,438; Sept. 11. Class 6.
Manhattan Drug Company, Brooklyn, N. Y. Foot Powder, etc. 265,439; Sept. 11. Class 6.
Manhattan Drug Company, Brooklyn, N. Y. Salve or ointment, etc. 265,440; Sept. 11. Class 6.
Manteca Canning Company, Manteca, Calif. Fresh grapes. 266,138; Sept. 11. Class 46.
Manuscura. (See Willsie, Henry E.)
Marans, Harry A., New York, N. Y. Slips, bloomers, step-ins, etc. 267,982; Sept. 11. Class 39.
Maranto, Joseph P., Brooklyn, Md. Medicinal preparation for the relief and treatment of tuberculosis. 268,618; Sept. 11. Class 6.
Marks Charles H., New York, N. Y. Foot powder for softening corns, bunions, etc. 268,456; Sept. 11. Class 6.
Marswell, Incorporated, Wantagh, N. Y. Preparation for use in treatment of headache, backache, and toothache. 268,988; Sept. 11. Class 6.
Mason, Frank B., Hollis, N. Y. Kidney medicine for horses. 268,991; Sept. 11. Class 6.
Mayer, Edwin, doing business as Liberty Cake Company, Philadelphia, Pa. Cakes. 269,193; Sept. 11. Class 46.
McClain Brothers, Canton, Ohio. Burial vaults. 268,378; Sept. 11. Class 2.
McDonald, Elizabeth A., New York, N. Y. Baggage bags 268,291; Sept. 11. Class 3.
McMahen, Wm. H., Company, Philadelphia, Pa. Mattresses, cushions, etc. 255,812; Sept. 11. Class 32.
McNamara, Michael, Varnish Works, Detroit, Mich. Ready-mixed paints, varnishes, and lacquers. 267,598; Sept. 11. Class 16.
Metke, John G., doing business as Queen City Specialty Co., Buffalo, N. Y. Beverages sold as soft drinks, juices for making same. 270,135; Sept. 11. Class 45.
Miller, I., & Sons, Inc., Long Island City, N. Y. Gloves, hosiery, hats, shoes, etc. 256,736; Sept. 11. Class 39.
Mintolene Products Co., New York, N. Y. Antiseptic. 261,376; Sept. 11. Class 6.
Möbius, T. Paul, Erlangen, near Nuremberg, Germany. Pencil sharpeners. 264,251; Sept. 11. Class 37.
Mueller Brass Co., Port Huron, Mich. Alloy metal mixture. 269,537; Sept. 11. Class 14.
Murias y Compañia, Eduardo S., Habana, Cuba. Cigars. 269,907; Sept. 11. Class 17.
Nahmaschinen-Teile Aktien-Gesellschaft, Dresden, Germany. Sewing machines and parts thereof. 269,248; Sept. 11. Class 23.
Nannt, Inc., Long Island City, N. Y. Compound for beverages. 267,502; Sept. 11. Class 45.
Nassau Sound Packing Co. (See Goffin, S. S.)
National Chemical Holdings Ltd., The, London, England. Bath salts. 264,381; Sept. 11. Class 6.
National Fireworks, Inc., West Hanover, Mass. Toy pistols. 269,543–5; Sept. 11. Class 22.
Naturo Mfg. Co., Los Angeles, Calif. Products for preservation of human dead. 269,546; Sept. 11. Class 6.
New Sweden Potato Growers, Idaho Falls, Idaho. Potatoes. 261,642; Sept. 11. Class 46.
New York Merchandise Co., Inc., New York, N. Y. Hair nets. 270,554; Sept. 11. Class 42.
Nicholson File Company, Providence, R. I. Files and rasps. 266,215; Sept. 11. Class 23.
Noma Electric Corporation, New York, N. Y. Christmas-tree holders. 251,851; Sept. 11. Class 50.
Norden Laboratories, Lincoln, Norfolk, and Grand Island, Nebr., and Sioux City, Iowa. Veterinary biologics, serums, pharmaceuticals, and supplies. 267,313; Sept. 11. Class 6.
Oceanic Sales Company, Seattle, Wash. Canned salmon. 270,646; Sept. 11. Class 46.
Oconomowoc Canning Co., Oconomowoc, Wis. Canned vegetables. 270,603; Sept. 11. Class 46.
O'Donnell Company, The, Boston, Mass. Fresh fish. 270,258; Sept. 11. Class 46.
Ogus, Rabinovich & Ogus, Inc., New York, N. Y. Hats. 264,836–8; Sept. 11. Class 39.
Ogus, Rabinovich & Ogus, Inc., New York, N. Y. Hats. 265,341–2; Sept. 11. Class 39.
Ohio Brass Company, The, Mansfield, Ohio. Welding rods. 268,934; Sept. 11. Class 14.
O-Kay Laboratories. (See Klein, Milton.)
Oro Powder Co. (See Leonard, F. A.)
Pacific Coast Biscuit Company, Seattle, Wash. Cookies. 270,647; Sept. 11. Class 46.
Pacquin, Inc., New York, N. Y. Cleansing and shaving soap. 270,197; Sept. 11. Class 4.
Pan-American Drug Company, Inc., Jacksonville, Fla. General tonic and mild laxative. 270,259; Sept. 11. Class 6.
Pango Milk Chocolate Co., Toledo, Ohio. Evaporated milk. 259,819; Sept. 11. Class 46.
Paragon Oil Company, Inc., Glendale, N. Y. Heating oils. 269,201; Sept. 11. Class 15.
Paretex Company, Inc., The, New York, N. Y. Wall-finishing material. 264,695; Sept. 11. Class 12.
Park, Philip R., Naval Station, San Pedro, Calif. Stock and poultry feeds. 269,250–51; Sept. 11. Class 46.
Park & Tilford, New York, N. Y. Cigars. 268,805; Sept. 11. Class 17.
Parke, Davis & Company, Detroit, Mich. Preparation for raising blood pressure. 257,306; Sept. 11. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparation for stimulating contractions of uterine and other muscular fibers. 257,741; Sept. 11. Class 6.
Parke, Davis & Company, Detroit, Mich. Chemical substance possessing medicinal properties as a hypnotic. 270,348; Sept. 11. Class 6.
Parker, Edgar W., doing business as Dr. Parker Medicine Co., Tampa, Fla. Vitalizing tonic in tablet form. 265,001–2; Sept. 11. Class 6.
Passivation Products Company, The, Cleveland, Ohio. Chemical compounds and solutions for cleaning and treating metal surfaces. 270,349; Sept. 11. Class 6.
Percival, Frank M., doing business as Adam de Cluhn Laboratories, Corona, N. Y. Cold cream, hair tonic, bleaching astringent, etc. 270,388; Sept. 11. Class 6.
Perugia, André, Paris, France. Toilet atomizers. 260,133; Sept. 11. Class 44.
Piver, L. T., Inc., doing business as L. T. Piver and Parfumerie L. T. Piver, Wilmington, Del., and New York, N. Y. Sachet powders, face powders, etc. 269,744; Sept. 11. Class 6.
Piver, L. T., Inc., Wilmington, Del., and New York, N. Y. Soaps. 269,745; Sept. 11. Class 4.
Plastex Company, Hammond, Ind. Wall plaster for interior decoration. 268,747; Sept. 11. Class 12.
Plastico Sewer Pipe Joint Company, Valley Junction, Iowa. Plastic sealing substance. 269,423; Sept. 11. Class 12.
Polk, James K., Incorporated, Atlanta, Ga. Phonographs, phonograph records, phonograph nedles, etc. 262,327; Sept. 11. Class 36.
Princess Confectionery Co., doing business as Fox Candy Co., Milwaukee, Wis. Marshmallow toppings, etc. 265,447; Sept. 11. Class 46.
Prutinsky & Woolf, New York, N. Y. Jewelry. 269,603; Sept. 11. Class 28.
Puritan Pharmaceutical Company, St. Louis, Mo. Complexion powder, cleansing creme, tissue creme, astringent lotion, etc. 267,010; Sept. 11. Class 6.
Queen City Specialty Co. (See Metke, John G.)
Radiance, Limited, Doncaster, England. Chocolate and sweetmeats. 264,260; Sept. 11. Class 46.
Rapid City Packing Company, Rapid City, S. Dak. Smoked meats, cooked meats, etc. 259,924; Sept. 11. Class 46.
Rappazzo, Guiseppe, Boston, Mass. Hair tonic and preparations for skin affections. 269,205; Sept. 11. Class 6.
Rauh, S., & Company, New York, N. Y. Leggings. 269,206; Sept. 11. Class 39.
Realistic Permanent Wave Machine Co., The, Cleveland, Ohio. Permanent-waving machines and accessories and equipment thereof. 264,777; Sept. 11. Class 44.
Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Ready-mixed asphalt paint. 270,202; Sept. 11. Class 16.
Red Wing Supply Co. (See Zimmermann, W. F.)
Reichardt Cocoa & Chocolate Co., Inc., New York, N. Y. Candy. 265,405; Sept. 11. Class 46.
Rhoads, J. E., & Sons, Philadelphia, Pa. Lace leather in the piece. 268,512; Sept. 11. Class 1.
Rialto Orange Co., Rialto, Calif. Oranges, lemons, and grapefruit. 270,719; Sept. 11. Class 46.
Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Dental appliance assemblies. 268,885–6; Sept. 11. Class 44.
Robinson & Golluber, New York, N. Y. Cotton piece goods. 263,726; Sept. 11. Class 42.
Robinson & Golluber, New York, N. Y. Piece goods of rayon, silk, and satin, lingerie, and slip material. 269,606; Sept. 11. Class 42.
Rollins Hosiery Mills, Des Moines, Iowa. Hosiery. 231,403; Sept. 11. Class 39.
Rollins Hosiery Mills, Des Moines, Iowa. Hosiery. 231,405; Sept. 11. Class 39.
Rollins Hosiery Mills, Des Moines, Iowa. Hosiery. 233,847; Sept. 11. Class 39.
Rosenberg, Louis J., New York, N. Y. Herbs or tea for stomach trouble. 268,632; Sept. 11. Class 6.
Roth, Otto, & Company, Inc., New York, N. Y. Dried sausage. 257,186; Sept. 11. Class 46.
Roth, Otto, & Co., Inc., New York, N. Y. Dried sausage. 257,188–9; Sept. 11. Class 46.
Samodan Company, San Antonio, Tex. Stomach powder for use as an antacid gas eliminant. 268,635; Sept. 11. Class 6.
Savory Baking Company, Newark, N. J. Tarts and coffee rings. 265,986; Sept. 11. Class 46.
Schomburg & Schomburg, Brooklyn, N. Y. Gasoline and lubricating oils and greases. 268,393; Sept. 11. Class 15.
Schwab, Leopold B., Newark, N. J. Hosiery. 268,466; Sept. 11. Class 39.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Sears, Roebuck and Co., Chicago, Ill. Electric ironing machines. 269,323; Sept. 11. Class 24.
Sears, Roebuck and Co., Chicago, Ill. Dinner ware. 266,627; Sept. 11. Class 30.
Shoecraft Shop Inc., New York, N. Y. Ladies' hand bags of metal, leather, straw, or textile material or combinations of the same. 265,991; Sept. 11. Class 3.
Shotwell Mfg. Co., The, Chicago, Ill. Marshmallows. 270 519; Sept. 11. Class 46.
Simmons, George W., Corporation, New York, N. Y. Chlorinated lime and ammonia. 268,397; Sept. 11. Class 6.
Skinner-Hill Co., Inc., New York, N. Y. Electrical lighting fixtures. 257,122; Sept. 11. Class 21.
Smith, Helen H., doing business as Sye Pattern Co., St. Louis, Mo. Patterns for women's wearing apparel. 268,821; Sept. 11. Class 26.
Società Anonima Cellulosa, Rome, Italy. Vegetable fibres for making felts, fabrics, and yarns. 259,600; Sept. 11. Class 1.
Société Martial et Armand et Cie., Paris, France. Perfume, toilet water, face powder, talcum powder, etc. 266,562; Sept. 11. Class 6.
Spear, J. W., & Sons, Inc., New York, N. Y. Parlor games. 269,695; Sept. 11. Class 22.
Spence-Bryson Inc., New York, N. Y. Handkerchiefs. 269,158; Sept. 11. Class 42.
Squibb, E. R., & Sons, New York, N. Y. Liquid preparation to be used as a laxative. 270,448; Sept. 11. Class 6.
Standard Land Company, The, Omaha, Nebr. Nonfreezing solution for radiators. 269,003; Sept. 11. Class 6.
Stearns, Frederick & Company, Detroit, Mich. Local anesthetic in ampoule or tablet form or in solution. 270,327; Sept. 11. Class 6.
Stein Bros. Mfg. Co., Inc., Chicago, Ill. Brief cases, wallets, purses, etc. 242,512; Sept. 11. Class 3.
Sterling Wholesale Grocery Co., Sterling, Ill. Canned fruits, vegetables, etc. 252,666; Sept. 11. Class 46.
Superior Type Company, The, Chicago, Ill. Toy rubber stamps. 267,469; Sept. 11. Class 22.
Sutliff, Henry, doing business as H. Sutliff Pipe Shop, San Francisco, Calif. Smoking tobacco. 268,251; Sept. 11. Class 17.
Sweet, Allen H., New Orleans, La. Paint. 268,892; Sept. 11. Class 16.
Swift and Company, Chicago, Ill. Frying fat. 270,358; Sept. 11. Class 46.
Swiss Hairspring Service, Inc., New York, N. Y. Watch materials. 269,615; Sept. 11. Class 27.
Sye Pattern Co. (See Smith, Helen H.)
Tagore, H. T., Union City, N. J. Shampoo preparations. 267,326; Sept. 11. Class 6.
Thomson, William H., doing business as Thomas Mfg. Co., Peoria, Ill. Steel ribbon for piston rings. 268,825; Sept. 11. Class 35.
Thorpe, Jay, Inc., New York, N. Y. Beaded bags. 269,788; Sept. 11. Class 3.
Tildesley Coal Company, The, Cincinnati, Ohio. Coal. 268,521; Sept. 11. Class 1.
Traun, Dr. Heinr., & Söhne, vormals Harburger Gummi-Kamm-Compagnie, Hamburg, Germany. Receptacles for acids and the like. 262,977; Sept. 11. Class 2.
Uddeholms Aktiebolag, Uddeholm, Sweden. Iron and steel in the shape of rolled and hammered bars, etc. 266,444–5; Sept. 11. Class 14.
Ultraviolet Glass Corporation, New York, N. Y. Ultraviolet-ray transmitting glass. 270,100; Sept. 11. Class 33.
U. S. Golf Manufacturing Co. (See United States Whip Co.)
U. S. Line Company. (See United States Whip Co.)
United States Rubber Company, New York, N. Y. Inner tubes for tires. 270,267; Sept. 11. Class 35.
United States Whip Co. also doing business as U. S. Golf Manufacturing Co., Westfield, Mass. Golf clubs. 269,335–6; Sept. 11. Class 22.
United States Whip Co., doing business as U. S. Line Co., Westfield, Mass. Fishing lines. 269,337–9. Sept. 11. Class 22.
United States Whip Co., doing business as U. S. Line Company, Westfield, Mass. Fishing lines. 269,377–8; Sept. 11. Class 22.
United Wire Goods Mfg. Co., New York, N. Y. Bathroom fixtures. 267,876; Sept. 11. Class 13.
Vacuum Oil Company, New York, N. Y. Oils, greases, etc. 268,122; Sept. 11. Class 15.
Ventril-O-Fone Company, Wilmington, Del. Microphonic attachment for radio receiving sets. 267,166; Sept. 11. Class 21.
Viscose Company, The, Marcus Hook, Pa. Rayon yarn. 270,000; Sept. 11. Class 43.
Voge-L-Iner Sales Co. (See Vogel, Willis A.)
Vogel, Willis A., doing business as Vogel-L-Iner Sales Co., Toledo, Ohio. Liquid preparation for treating floors and walls of tile, etc. 269,008; Sept. 11. Class 6.
W. & P. Jewelry Co. Inc., New York, N. Y. Articles of jewelry for personal wear, not including watches. 269,618; Sept. 11. Class 28.
Wadsworth Watch Case Company, The, Dayton, Ky. Bracelets and watch bands. 265,129; Sept. 11. Class 28.
Wadsworth Watch Case Company, Dayton, Ky. Bracelets and watch bands. 266,285–6; Sept. 11. Class 28.
Ward Baking Company, New York, N. Y. Cake. 267,730–13; Sept. 11. Class 46.
Watson, John Warren Company, Philadelphia, Pa. Brake and friction mechanism or parts, recoil checks, etc. 268,010; Sept. 11. Class 19.
Wertheimer Ribbon Corporation, New York, N. Y. Chiffon and gauze ribbon. 267,622; Sept. 11. Class 42.
Wester, Emerick, Easton, Pa. Spring water. 242,402; Sept. 11. Class 45.
Western States Mfg. Co., Sioux City, Iowa. Sheet-rubber tire-patching material, etc. 269,558; Sept. 11. Class 35.
Western States Mfg. Co., Sioux City, Iowa. Valve pads for pneumatic tires, fan belts, tube and casing patches, etc. 269,559; Sept. 11. Class 35.
Weyerhaeuser Forest Products, St. Paul, Minn. Wooden shingles and shakes. 268,759; Sept. 11. Class 12.
White Luggage Co., Inc., New York, N. Y. Coat hangers. 268,523; Sept. 11. Class 50.
Whyto Manufacturing Company, Cresco, Iowa. Washing and cleansing powders with and without incidental bleaching properties. 268,201; Sept. 11. Class 4.
Williams Fruit Company, Yakima, Wash. Fresh apples, pears, peaches, etc. 268,831; Sept. 11. Class 46.
Willsie, Henry E., doing business as Manuscura, Cleveland, Ohio. Manicure powder. 267,914; Sept. 11. Class 6.
Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 269,704; Sept. 11. Class 22.
Wood Fruit Company, Inc., Atwater, Calif. Fresh deciduous fruits. 269,878–9; Sept. 11. Class 46.
Woolley, William, Holborn, London, England. Index cards. 267,524; Sept. 11. Class 37.
Zimmermann, W. F., doing business as Red Wing Supply Co., Red Wing, Minn. Malt syrup. 268,622; Sept. 11. Class 46.
Zoro Company, The. (See Curran, Francis J.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Calfskin. American Hide and Leather Company. 246,635; Sept. 11; Serial No. 239,841; published June 19, 1928.
Chamois skin. Lasker & Bernstein, Inc. 246,609; Sept. 11; Serial No. 262,228; published June 12, 1928.
Coal. Ames Grain and Coal Company. 246,488; Sept. 11; Serial No. 263,064; published June 5, 1928.
Coal. Argyle Coal Company. 246,492; Sept. 11; Serial No. 262,839; published June 5, 1928.
Coal. Campbell Coal Company. 246,573; Sept. 11; Serial No. 263,584; published June 12, 1928.
Coal. Holmes-Darst Coal Company. 246,811; Sept. 11.
Cotton batting. Stearns & Foster Company. 246,470; Sept. 11; Serial No. 264,208; published June 5, 1928.
Earths in the natural state. Diatomaceous. American Diatom Company. 246,508; Sept. 11; Serial No. 264,411; published June 12, 1928.
Furs, Artificial. H. Berger. 246,631; Sept. 11; Serial No. 265,314; published June 26, 1928.
Furs, Raw. Continental Fur Corporation. 246,523; Sept. 11; Serial No. 265,093; published June 26, 1928.
Hops. D. Nassif. 246,803; Sept. 11; Serial No. 257,594; published June 19, 1928.
Ice. Carolina-Georgia Service Company. 246,784; Sept. 11; Serial No. 264,804; published June 26, 1928.
Leather. New Castle Leather Co. 246,566; Sept. 11; Serial No. 263,722; published June 19, 1928.
Leather, Chamois. B. J. Heaney. 246,556; Sept. 11; Serial No. 261,256; published June 26, 1928.
Leather made from reptile skins. Kaufherr & Co. 246,542; Sept. 11; Serial No. 264,823; published June 19, 1928.
Leather, Shoe-sole. Drisole Tanning Company. 246,761; Sept. 11; Serial No. 247,602; published June 19, 1928.
Leather, Sole. Lichtenberger-Ferguson Company. 246,551; Sept. 11; Serial No. 244,781; published June 19, 1928.
Pigeon health grit. A. G. Hausam. 246,754; Sept. 11; Serial No. 264,642; published June 12, 1928.
Rattan and cane, Woven. American Rattan & Reed M'f'g. Co. 246,530; Sept. 11; Serial No. 264,938; published June 26, 1928.
Seeds. Kellogg Seed Company. 246,685; Sept. 11; Serial No. 258,947; published June 19, 1928.
Sponges. Gulf & West Indies Co. 246,515–16; Sept. 11; Serial Nos. 264,298–9; published June 12, 1928.
Tungsten concentrates. Ozark Tungsten Company. 246,696; Sept. 11; Serial No. 260,583; published June 5, 1928.

CLASS 2.

Cans, Oil. F. I. Jaden. 246,697; Sept. 11; Serial No. 260,571; published July 3, 1928.

CLASS 3.

Bags and pocketbooks, Ladies' hand. M. Shenfeld. 246,799; Sept. 11; Serial No. 259,376; published June 19, 1928.
Bags, Ladies' hand. Morris White, Inc. 246,585; Sept. 11; Serial No. 266,160; published June 19, 1928.
Portfolios, brief cases, and luggage. Kaufmann Department Stores, Inc. 246,592; Sept. 11; Serial No. 265,386; published June 26, 1928.

CLASS 5.

Binder for forming cores for castings, Liquid. Pennsylvania Lubricating Company. 246,590; Sept. 11; Serial No. 265,495; published June 26, 1928.

CLASS 6.

Antiseptic liquid court plaster. C. W. Dees. 246,821; Sept. 11.
Antiseptic solution. E. B. Witte. 246,787; Sept. 11; Serial No. 260,302; published July 3, 1928.
Balm. Goodrich-Gamble Company. 246,718; Sept. 11; Serial No. 265,535; published June 19, 1928.
Cough drops. E. A. Smith. 246,662; Sept. 11; Serial No. 225,891; published June 26, 1928.
Cream, Face. A. Cierpilkowski. 246,719; Sept. 11; Serial No. 265,522; published June 19, 1928.
Creams, Facial. A. J. Krank. 246,667; Sept. 11; Serial No. 218,855; published June 26, 1928.
Deodorant. McKesson & Robbins, Incorporated. 246,577; Sept. 11; Serial No. 263,504; published June 19, 1928.
Dermatological sulphur compound. Ichthyol Co. 246,783; Sept. 11; Serial No. 265,968; published June 26, 1928.
Disinfectant. Cedarwood Fumi-Teurs Corporation. 246,764; Sept. 11; Serial No. 266,299; published June 26, 1928.
Disinfectants. Rockland Chemical Co. 246,734; Sept. 11; Serial No. 265,930; published June 19, 1928.
Dyes. O. L. Gabriel. 246,712; Sept. 11; Serial No. 256,772; published July 3, 1928.
Dyestuffs, dyes, and rust-preventing dyes. Heyl-Beringer Farbenfabriken A.-G. 246,740; Sept. 11; Serial No. 265,542; published June 19, 1928.
Extract and hemoglobin compound, Liver. Chappel Bros., Inc. 246,783; Sept. 11; Serial No. 253,938; published July 3, 1928.
Insecticide and deodorant, Household. Bonide Chemical Co. 246,766; Sept. 11; Serial No. 266,079; published June 26, 1928.
Insecticide, Liquid. Sloan Chemical Company. 246,765; Sept. 11; Serial No. 266,278; published June 26, 1928.
Lotion. Charles L. Joy & Company. 246,474; Sept. 11; Serial No. 264,109; published June 19, 1928.
Lotion, Astringent. Armand Company. 246,658; Sept. 11; Serial No. 231,361; published Aug. 3, 1928.
Medicinal preparations for colds, etc. C. T. Johnstone. 246,497; Sept. 11; Serial No. 262,715; published June 26, 1928.
Medicine, Fluid. S. J. Goldberg. 246,702; Sept. 11; Serial No. 254,846; published June 19, 1928.
Medicines, Cough. H. L. Sample. 246,478; Sept. 11; Serial No. 264,051; published June 19, 1928.
Medicines for tuberculosis. E. Carpentier. 246,551; Sept. 11; Serial No. 261,860; published June 19, 1928.
Mineral oil. McKesson & Robbins, Incorporated. 246,502; Sept. 11; Serial No. 264,440; published June 19, 1928.
Mineral oil. McKesson & Robbins, Incorporated. 246,503; Sept. 11; Serial No. 264,438; published June 19, 1928.
Mineral oil. McKesson & Robbins, Incorporated. 246,743; Sept. 11; Serial No. 264,449; published June 9, 1928.
Mouth wash, Powder. G. C. McCann. 246,541; Sept. 11; Serial No. 264,830; published June 26, 1928.
Oils, Natural and synthetic. Heine & Co. 246,635; Sept. 11; Serial No. 264,101; published July 3, 1928.
Ointment. Omega Chemical Company. 246,576; Sept. 11; Serial No. 263,511; published June 19, 1928.
Ointment. Wright Brothers Pharmacal Laboratory. 246,512; Sept. 11; Serial No. 264,340; published June 19, 1928.
Ointment for burns, scalds, cuts, etc. McKesson & Robbins, Incorporated. 246,744; Sept. 11; Serial No. 264,451; published June 19, 1928.
Ointment, Mustard. McKesson & Robbins, Incorporated. 246,504; Sept. 11; Serial No. 264,437; published June 19, 1928.
Parasiticides. Niagara Sprayer Company. 246,735; Sept. 11; Serial No. 265,919; published June 19, 1928.
Perfumes, toilet water, face powder, etc. A. Gravier. 246,717; Sept. 11; Serial No. 265,536; published June 26, 1928.
Plaster, Adhesive medicated. H. A. Rowe. 246,723; Sept. 11; Serial No. 265,499; published June 19, 1928.
Poison gas. F. B. MacCarthy. 246,681; Sept. 11; Serial No. 265,339; published June 19, 1928.
Preparation for the treatment of boils, etc. G. W. Jindrich. 246,732; Sept. 11; Serial No. 265,885; published June 26, 1928.
Preparation to be added to gasoline. Anzene Products Company. 246,669; Sept. 11; Serial No. 263,780; published June 19, 1928.
Preparations for eradicating superfluous hair. C. Howard. 246,483; Sept. 11; Serial No. 263,947; published June 26, 1928.
Remedy, Ant. Excell Laboratories. 246,813; Sept. 11.
Salve. D. W. Laubach. 246,487; Sept. 11; Serial No. 263,092; published June 26, 1928.
Salve. F. A. Minkler. 246,729; Sept. 11; Serial No. 265,442; published June 26, 1928.
Sulphur bitters. A. P. Ordway & Co. 246,559; Sept. 11; Serial No. 261,139; published June 19, 1928.
Tablets, Cold and grippe. McKesson & Robbins. 246,495; Sept. 11; Serial No. 262,737; published June 19, 1928.
Tablets, Cold and grippe. McKesson & Robbins. 246,496; Sept. 11; Serial No. 262,733; published June 19, 1928.
Tonic. A. C. Pulaski. 246,522; Sept. 11; Serial No. 264,217; published June 19, 1928.
Tonic, General. McKesson & Robbins, Incorporated. 246,742; Sept. 11; Serial No. 264,447; published June 19, 1928.
Tonic, General. McKesson & Robbins, Incorporated. 246,745; Sept. 11; Serial No. 264,453; published June 19, 1928.
Tonic. Nutritive food. Manley & James, Limited, New York. 246,790; Sept. 11; Serial No. 260,183; published June 26, 1928.
Washing blue. J. I. Diamond. 246,779; Sept. 11; Serial No. 249,345; published June 26, 1928.

CLASS 14.

Aluminum-alloy shavings. Ross Manufacturing Company. 246,532; Sept. 11; Serial No. 264,917; published June 19, 1928.
Castings, iron. Louis Sacks, Inc. 246,715; Sept. 11; Serial No. 257,177; published June 19, 1928.
Steel in the form of sheets, bars, rods, etc. Firth-Sterling Steel Company. 246,529; Sept. 11; Serial No. 264,975; published June 19, 1928.

CLASS 15.

Gasoline. Cushing Refining & Gasoline Company. 246,583; Sept. 11; Serial No. 265,094; published June 26, 1928.
Gasoline. Torch Oil Company. 246,565; Sept. 11; Serial No. 263,735; published June 19, 1928.
Gasoline, cup and axle greases. Continental Refining Company. 246,570 Sept. 11; Serial No. 263,693; published June 19, 1928.
Oil, Lubricating. Richfield Oil Company of America. 246,575; Sept. 11; Serial No. 263,516; published June 19, 1928.
Oils and grease, Lubricating. H. H. Hull. 246,511; Sept. 11; Serial No. 264,374; published June 19, 1928.
Oils and greases cutting oils, etc., Lubricating. Seymour-Howard Corporation. 246,683; Sept. 11; Serial No. 259,026; published June 26, 1928.
Oils and greases, Lubricating. Otis Elevator Company. 246,499; Sept. 11; Serial No. 263,338; published June 19, 1928.
Oils and lubricating greases, Lubricating. La-Lo Chemical Company. 246,610; Sept. 11; Serial No. 262,226; published June 19, 1928.
Oils and lubricating greases, Lubricating. Nourse Oil Company. 246,526; Sept. 11; Serial No. 265,062; published June 19, 1928.
Oils, Motor-lubricating. California Petroleum Corporation. 246,748; Sept. 11; Serial No. 264,506; published June 19, 1928.

CLASS 16.

Lacquers and varnishes. Arco Company. 246,679; Sept. 11; Serial No. 265,356; published June 26, 1928.
Paint enamel. Capitol Paint & Varnish Works, Inc. 246,769; Sept. 11; Serial No. 266,017; published June 19, 1928.
Paints, Interior decorative. Condie-Bray Glass & Paint Co 246,547; Sept. 11; Serial No. 265,261; published June 19,1928.
Paint, lacquers, varnish, and paint enamels. Andrew Brown Co., Inc. 246,553; Sept. 11; Serial No. 261,347; published June 19, 1928.
Paints, cement coating, oxide paints, etc., Enamel. Elco Paint Products, Inc. 246,627–8; Sept. 11; Serial Nos. 265,327–8; published June 19, 1928.
Paints, paint and varnish driers, etc. Patterson-Sargent Company. 246,588; Sept. 11; Serial No. 265,684; published June 19, 1928.
Paints, paint enamels, japans, etc. Sherwin-Williams Company. 246,774; Sept. 11; Serial No. 252,572; published June 19, 1928.
Paints, penetrating stains, primers, etc., Enamel. Elco Paint Products, Inc. 246,629; Sept. 11; Serial No. 265,326; published June 19, 1928.
Paints, penetrating stains, primers, etc., Enamel. Elco Paint Products, Inc. 246,630; Sept. 11; Serial No. 265,324; published June 19, 1928.
Paints, varnishes, paint oils, etc., Paste. Lampton, Crane & Ramey Co. 246,752; Sept. 11; Serial No. 264,629; published June 19, 1928.
Polish and floor dressing, Floor. Hillyard Chemical Company. 246,538; Sept. 11; Serial No. 264,881; published June 19, 1928.
Polish or gloss. Superla Laboratories, Inc. 246,621; Sept. 11; Serial No. 265,125; published June 26, 1928.
Varnish. Capitol Paint & Varnish Works, Inc. 246,770; Sept. 11; Serial No. 266,016; published June 19, 1928.

CLASS 21.

Batteries. Smith Brothers Hardware Company. 246,564; Sept. 11; Serial No. 263,834; published June 26, 1928.

Batteries, A and B. Bright Star Battery Co. 246,665; Sept. 11; Serial No. 222,820; published Feb. 23, 1926.
Batteries, Secondary. Westinghouse Union Battery Company. 246,720; Sept. 11; Serial No. 265,510; published June 26, 1928.
Batteries, Secondary. Westinghouse Union Battery Company. 246,759; Sept. 11; Serial No. 264,788; published June 26, 1928.
Batteries, Storage. Big-Boy Products Co. 246,756; Sept. 11; Serial No. 264,711; published June 19, 1928.
Blowers, suction cleaners, and sprayers. Electrically-driven portable electric. Breuer Electric Mfg. Co. 246,727; Sept. 11; Serial No. 265,465; published June 26, 1928.
Broilers, Electrical bacon. Carter-Strite Mfg. Co. 246,694; Sept. 11; Serial No. 260,672; published June 26, 1928.
Condensers, Fixed. T. C. Deutschmann. 246,632; Sept. 11; Serial No. 265,263; published June 26, 1928.
Conduit, Flexible metallic. Breeze Corporations Incorporated. 246,543; Sept. 11; Serial No. 262,202; published June 26, 1928.
Controllers, Electric. Clark Controller Company. 246,481; Sept. 11; Serial No. 264,016; published June 26, 1928.
Cut-outs, panel boards, switchboards, etc. Mutual Electric and Machine Company. 246,666; Sept. 11; Serial No. 220,560; published Feb. 23, 1926.
Electric cigar lighters. Stewart-Warner Speedometer Corporation. 246,684; Sept. 11; Serial No. 258,963; published June 19, 1928.
Electric controls for devices. Protecto Products Co. 246,663; Sept. 11; Serial No. 224,048; published June 19, 1928.
Electric heating pads. Chicago Flexible Shaft Company. 246,518; Sept. 11; Serial No. 264,288; published June 19, 1928.
Electrical appliances. Manning, Bowman & Co. 246,739; Sept. 11; Serial 265,554; published June 26, 1928.
Electrical coffee and tea percolators. Metal Ware Corporation. 246,480; Sept. 11; Serial No. 264,035; published June 19, 1928.
Heater cords and other electrical conductors. Rockbestos Products Corporation. 246,533–4; Sept. 11; Serial Nos. 264,914–15; published June 19, 1928.
Heaters, electric dryers, and ovens for industrial uses, etc., Electric air or space. Edwin L. Wiegand Company. 246,652; Sept. 11; Serial No. 244; published June 26, 1928.
Lamp, Carbon arc. F. C. Ellis. 246,498; Sept. 11; Serial No. 262,707; published June 26, 1928.
Lamps, wall brackets, etc., Electric table. Artique Studios. 246,668; Sept. 11; Serial No. 213,218; published June 19, 1928.
Phonograph pick-up, Electrical. L. G. Sylvester. 246,524; Sept. 11; Serial No. 265,075; published June 26, 1928.
Radio receiving sets. Kemper Radio Corporation. 246,614; Sept. 11; Serial No. 265,216; published June 26, 1928.
Reproducers and amplifiers, etc., Electrical. L. G. Sylvester. 246,540; Sept. 11; Serial No. 264,852; published June 26, 1928.
Signal systems, electric switches, and direction lights, Automobile direction-. A. D. Owen. 246,520; Sept. 11; Serial No. 264,255; published June 19, 1928.
Spark plugs. B. G. Corporation. 246,760; Sept. 11; Serial No. 264,799; published June 19, 1928.
Starting, lighting, and ignition apparatus and parts thereof, Electrical. Delco-Remy Corporation. 246,572; Sept. 11; Serial No. 263,594; published June 26, 1928.
Timers. E. O. Weeks. 246,762; Sept. 11; Serial No. 247,232; published June 26, 1928.

CLASS 22.

Balls, lawn-tennis balls, and football bladders. Rubber. Helsingborgs Gummifabriks Aktiebolag. 246,741; Sept. 11; Serial No. 265,540; published June 26, 1928.
Balls, Golf. United States Rubber Company. 246,613; Sept. 11; Serial No. 265,242; published June 19, 1928.
Baseball gloves. Wilson-Western Sporting Goods Company. 246,782; Sept. 11; Serial No. 254,738; published June 19, 1928.
Basket balls, baseballs, footballs, etc. M. Goldberg. 246,546; Sept. 11; Serial No. 262,076; published June 19, 1928.
Cards, Playing. New York Consolidated Card Co. 246,536; Sept. 11; Serial No. 264,899; published June 19, 1928.
Fishing lines. Horton Manufacturing Company. 246,537; Sept. 11; Serial No. 264,883; published June 19, 1928.
Fishing tackle. Henry Milward & Sons Limited. 246,567–8; Sept. 11; Serial Nos. 263,716–17; published June 26, 1928.
Football bladders, football helmets, baseball bats, etc. James W. Brine Co. 246,580; Sept. 11; Serial No. 263,372; published June 26, 1928.
Footballs. Draper-Maynard Company. 246,582; Sept. 11; Serial No. 265,097; published June 19, 1928.
Game. Parker Brothers Inc. 246,525; Sept. 11; Serial No. 265,064; published June 19, 1928.
Games. Quadro Games Co. 246,479; Sept. 11; Serial No. 264,049; published June 19, 1928.
Games, Card. J. O. Miranda. 246,578; Sept. 11; Serial No. 263,413; published June 19, 1928.
Skates, Ice. Nestor Johnson Manufacturing Company. 246,706; Sept. 11; Serial No. 256,347; published June 19, 1928.
Toy automobiles, toy automobile trucks, etc. Dowst Manufacturing Company. 246,615; Sept. 11; Serial No. 265,199; published June 26, 1928.

CLASS 23.

Stapling machines and tools. Parrot Speed Fastener Corporation. 246,812; Sept. 11.
Tanks, Mechanical. Gulberson Corporation. 246,604; Sept. 11; Serial No. 264,163; published June 26, 1928.

CLASS 24.

Irons, Gas flat. Colebrookdale Iron Company. 246,810; Sept. 11.

CLASS 25.

Safes, keys, locks, etc., Rotary. S. P. Yeo. 246,806; Sept. 11.

CLASS 27.

Clocks. William L. Gilbert Clock Company. 246,726; Sept. 11; Serial No. 265,472; published June 26, 1928.
Time detectors, watch clocks, and watchmen's clocks, Watchmen's. Detex Watchclock Corporation. 246,482; Sept. 11; Serial No. 263,955; published June 19, 1928.
Watchcases. B. Goldsmid. 246,791; Sept. 11; Serial No. 260,174; published June 26, 1928.
Watchcases. S. Weintraub. 246,792; Sept. 11; Serial No. 260,153; published June 19, 1928.
Watches and watchcases. S & D Jewelry Mfg. Co. Inc. 246,489; Sept. 11; Serial No. 263,051; published June 26, 1928.

CLASS 28.

Badges, lapel buttons, cuff links, etc., Fraternity. Alpha Delta Sigma. 246,688; Sept. 11; Serial No. 257,956; published June 26, 1928.
Badges, lapel buttons, cuff links, etc., Fraternity. Beta Kappa Fraternity. 246,539; Sept. 11; Serial No. 264,864; published June 26, 1928.
Badges, lapel buttons, cuff links, etc., Fraternity. Fraternity Alpha Zeta. 246,781; Sept. 11; Serial No. 247,685; published June 26, 1928.
Badges, lapel buttons, etc., Fraternity. Delta Gamma Delta Sorority. 246,506; Sept. 11; Serial No. 264,425; published June 19, 1928.
Bracelets. Hadley Company. 246,471; Sept. 11; Serial No. 264,165; published June 19, 1928.
Bracelets and wrist watch holders. Smith & Crosby. 246,721; Sept. 11; Serial No. 265,505; published June 26, 1928.
Cuff links, collar buttons, scarf pins, etc., Gold and silver plated. President Novelty & Jewelry Co. 246,757; Sept. 11; Serial No. 264,770; published June 26, 1928.
Jewelry. Acme Platinum Manufacturing Co. Inc. 246,490; Sept. 11; Serial No. 263,022; published June 26, 1928.
Jewelry. Beta Pi Theta Fraternity. 246,753; Sept. 11; Serial No. 264,633; published June 19, 1928.
Jewelry. Cohn & Rosenberger, Inc. 246,517; Sept. 11; Serial No. 264,289; published June 19, 1928.
Jewelry. D. & I. Jewelry Mfg. Co. 246,472; Sept. 11; Serial No. 264,151; published June 19, 1928.
Jewelry. Estate of Jos. Moldawsky, deceased; Rose Moldawsky, administratrix. 246,509; Sept. 11; Serial No. 264,405; published June 19, 1928.
Jewelry. F. Flynn. 246,678; Sept. 11; Serial No. 265,373; published June 26, 1928.
Jewelry. Fraternity of Phi Gamma Delta. 246,758; Sept. 11; Serial No. 264,719; published June 26, 1928.
Jewelry. F. C. May. 246,725; Sept. 11; Serial No. 265,488; published June 26, 1928.
Jewelry. Novoross & Glassman. 246,724; Sept. 11; Serial No. 265,493; published June 26, 1928.
Jewelry. Ostrow & Samit. 246,607; Sept. 11; Serial No. 262,480; published June 26, 1928.
Jewelry. O. Pennino. 246,703; Sept. 11; Serial No. 255,024; published June 26, 1928.
Jewelry, Articles of. William Balter & Co. Inc. 246,728; Sept. 11; Serial No. 265,463; published June 26, 1928.
Jewelry, dresser sets, etc. Chi Omega Fraternity. 246,687; Sept. 11; Serial No. 258,068; published June 26, 1928.
Jewelry, Ornamental shields and fraternal. Beta Phi Sigma Fraternity. 246,507; Sept. 11; Serial No. 264,414; published June 19, 1928.
Pins, Fraternity. Alpha Sigma. 246,571; Sept. 11; Serial No. 263,678; published June 12, 1928.
Rings, bracelets, pendants, etc., Finger. William Kinscherf Company. 246,751; Sept. 11; Serial No. 264,625; published June 19, 1928.
Rings, brooches, stick pins, etc., Finger. Schneider & London, Inc. 246,692; Sept. 11; Serial No. 260,755; published June 19, 1928.
Rings, Finger. Helm & Hahn Co. 246,622; Sept. 11; Serial No. 265,106; published June 19, 1928.
Rings, Platinum finger. Willson & Parr, Inc. 246,548; Sept. 11; Serial No. 261,921; published June 19, 1928.
Silver flatware. Oneida Community, Limited. 246,714; Sept. 11; Serial No. 257,022; published June 26, 1928.

CLASS 29.

Brushes. M. Rosenwald. 246,698; Sept. 11; Serial No. 260,470; published June 19, 1928.

Brushes, brooms, whisk brooms, mops, and dusters. Lufrie Co. 246,550; Sept. 11; Serial No. 261,889; published June 19, 1928.

CLASS 31.

Refrigerators. Alaska Refrigerator Company. 246,763; Sept. 11; Serial No. 266,449; published June 26, 1928.

CLASS 34.

Lighters, Pyrophoric pocket cigar. Acme Manufacturing Co. 246,815; Sept. 11.

CLASS 36.

Clarinets, Metal. Penzel, Mueller & Co. 246,528; Sept. 11; Serial No. 265,003; published June 19, 1928.
Phonograph apparatus for recording and reproducing sounds. Plaza Music Company. 246,486; Sept. 11; Serial No. 263,890; published June 15, 1928.
Phonograph records. I. Ionescn-Ardeal. 246,730; Sept. 11; Serial No. 265,420; published June 26, 1928.
Phonographs. Totty Trunk & Bag Co. 246,680; Sept. 11; Serial No. 265,348; published June 26, 1928.
Strings manufactured from guts. Handelsvennootschap onder de firma Ph. Hakkert Jr., Handelende Tevens onder den Naam van First Dutch Stringmakers en Eerste Nederlandsche Snarenfabriek. 246,601; Sept. 11; Serial No. 257,673; published June 26, 1928.
Violins, violas, and cellos. Carl Fischer, Inc. 246,505; Sept. 11; Serial No. 264,427; published June 26, 1928.

CLASS 39.

Apparel, Men's and boys' wearing. M. C. Stone & Son Company. 246,557–8; Sept. 11; Serial Nos. 261,157–8; published June 19, 1928.
Aprons, collars, caps, etc. Henry A. Dix & Sons Corporation. 246,677; Sept. 11; Serial No. 246,017; published June 5, 1928.
Arm bands of coiled wire. Heath Spring and Notion Company Limited. 246,713; Sept. 11; Serial No. 256,823; published June 26, 1928.
Bloomers, brassières, chemises, etc. B. Laskin. 246,711; Sept. 11; Serial No. 256,675; published June 5, 1928.
Boots and shoes. Bresnahan Shoe Company. 246,755; Sept. 11; Serial No. 264,068; published June 26, 1928.
Boots and shoes. Charles E. Lynch Shoe Manufacturing Co. 246,690; Sept. 11; Serial No. 257,686; published June 26, 1928.
Caps, Men's and boys'. Atlantic Headwear Company. 246,544; Sept. 11; Serial No. 262,145; published June 5, 1928.
Chemises, bloomers, etc. I. Schneierson & Son. 246,775–6; Sept. 11; Serial Nos. 252,348–9; published June 5, 1928.
Clothing, Men's. Ph. Weinberg & Sons. 246,519; Sept. 11; Serial No. 264,268; published June 19, 1928.
Clothing, Men's outer. Burkhardt Bros. Co. 246,500; Sept. 11; Serial No. 263,124; published June 5, 1928.
Coats, chinchilla coats, and fur coats, Women's woolen. Eisen & Son. 246,611; Sept. 11; Serial No. 262,216; published June 5, 1928.
Coats, dresses, shoes, etc., Children's. Chicago Mail Order Company. 246,473; Sept. 11; Serial No. 264,143; published June 26, 1928.
Coats, vests, trousers, and overcoats. B. Kuppenheimer & Co. 246,598; Sept. 11; Serial No. 264,520; published June 5, 1928.
Costume slips, bloomers and petticoats. Patricia Petticoat Co. Inc. 246,642; Sept. 11; Serial No. 263,340; published June 12, 1928.
Cravats, mufflers, sweaters, etc. Hurwitt Co. Inc. 246,555; Sept. 11; Serial No. 261,257; published June 19, 1928.
Dresses. M. Bosniak. 246,554; Sept. 11; Serial No. 261,346; published June 5, 1928.
Dresses, Demi-Size Dress Corporation. 246,605; Sept. 11; Serial No. 262,650; published June 19, 1928.
Dresses. I. Mittelman & Co. Inc. 246,789; Sept. 11; Serial No. 260,187; published June 5, 1928.
Dresses, bloomers, etc. J. C. Penney Company. 246,549; Sept. 11; Serial No. 261,923; published June 5, 1928.
Dresses for women. Markwett Co. 246,797; Sept. 11; Serial No. 259,500; published May 29, 1928.
Dresses, frocks, and negligees. Celanese Corporation of America. 246,633; Sept. 11. Serial No. 264,142; published June 5, 1928.
Dresses, ladies'. Deja, Inc. 246,695; Sept. 11; Serial No. 260,629; published May 22, 1928.
Dresses, pajamas, trousers, etc. Koln-Rottweil Aktiengesellschaft. 246,664; Sept. 11; Serial No. 219,434; published June 5, 1928.
Dresses, union suits, pajamas, etc. Fred Butterfield & Co. 246,600; Sept. 11; Serial No. 264,286; published June 5, 1928.
Gloves. Stern Brothers. 246,798; Sept. 11; Serial No. 259,430; published June 5, 1928.
Gloves, hats, shoes, slippers, etc. P. Centemeri & Co. 246,794; Sept. 11; Serial No. 260,089; published June 12, 1928.
Gloves, hats, shoes, smoking jackets, suits, etc. P. Centemeri & Co. 246,793; Sept. 11; Serial No. 260,093; published June 5, 1928.
Gloves, Leather. David & Blum, Inc. 246,700; Sept. 11; Serial No. 260,377; published May 8, 1928.
Gloves, Leather. Sager Glove Corporation. 246,676; Sept. 11; Serial No. 259,823; published May 29, 1928.
Hats. Levitt Millinery Company. 246,625; Sept. 11; Serial No. 263,160; published June 5, 1928.
Hats and caps. New York Hat Stores, Inc. 246,671; Sept. 11; Serial No. 259,688; published June 26, 1928.
Hats, caps, hat frames, and linings. Charles Moffet and M. Shapiro, Inc. 246,796; Sept. 11; Serial No. 259,686; published June 5, 1928.
Hats, Ladies'. J. Bloomfield Co. 246,581; Sept. 11; Serial No. 263,370; published June 19, 1928.
Hats, Ladies' and misses'. Consolidated Millinery Company. 246,801; Sept. 11; Serial No. 258,797; published June 12, 1928.
Hats, Ladies' and misses'. Shield Hat Company. 246,493; Sept. 11; Serial No. 262,821; published June 5, 1928.
Hosiery. Brooks Hosiery Mills. 246,494; Sept. 11; Serial No. 262,795; published June 5, 1928.
Hosiery. Dorothy Dodd Shoe Company. 246,603; Sept. 11; Serial No. 264,224; published June 5, 1928.
Hosiery. Garcia & Pla. 246,599; Sept. 11; Serial No. 264,294; published June 12, 1928.
Hosiery. Glen Alpine Knitting Mills, Inc. 246,475; Sept. 11; Serial No. 264,095; published June 5, 1928.
Hosiery. Holeproof Hosiery Co. 246,645; Sept. 11; Serial No. 264,684; published June 5, 1928.
Hosiery. Quaker Hosiery Company. 246,639; Sept. 11; Serial No. 263,788; published June 5, 1928.
Hosiery. Thomas G. Plant Corporation. 246,601; Sept. 11; Serial No. 264,257; published June 12, 1928.
Hosiery, Ladies'. Smith, Kirkpatrick & Co. 246,785; Sept. 11; Serial No. 260,856; published June 5, 1928.
Middies, knickers, play suits, etc. Kenilworth Manufacturing Co. Inc. 246,643; Sept. 11; Serial No. 263,215; published June 5, 1928.
Overcoats. S. A. Martin. 246,552; Sept. 11; Serial No. 261,761; published June 12, 1928.
Pants of rubber and rubber and fabric, Baby. A. Stein & Company. 246,513; Sept. 11; Serial No. 264,331; published June 19, 1928.
Robes and slippers, Bath. Royal Robes, Inc. 246,749; Sept. 11; Serial No. 264,608; published June 26, 1928.
Scarfs. Manville Jenckes Co. 246,780; Sept. 11; Serial No. 247,957; published June 5, 1928.
Scarfs, capes, shawls, gowns, etc. Gimbel Brothers, Inc. 246,778; Sept. 11; Serial No. 249,655; published June 5, 1928.
Shirts. Broom & Newman. 246,563; Sept. 11; Serial No. 261,040; published June 5, 1928.
Shirts. Hilton Company. 246,772; Sept. 11; Serial No. 252,601; published June 5, 1928.
Shirts. M. H. Raab Co. 246,606; Sept. 11; Serial No. 262,486; published June 19, 1928.
Shirts. Wide Awake Shirt Company. 246,491; Sept. 11; Serial No. 262,989; published June 19, 1928.
Shirts, coats, jackets, etc. Max Hyman & Son, Inc. 246,817; Sept. 11.
Shirts, gloves, overalls, etc., Work. Holbert-Longley Manufacturing Co. 246,569; Sept. 11; Serial No. 263,702; published June 26, 1928.
Shirts, nightshirts, and pajamas. Samuel Valentine Co. Inc. 246,641; Sept. 11; Serial No. 263,520; published June 5, 1928.
Shirts, overalls, etc., Work. National Bellas Hess Co. Inc. 246,510; Sept. 11; Serial No. 264,380; published June 26, 1928.
Shirts, pajamas, and underwear. Le Roy Shirt Co. 246,640; Sept. 11; Serial No. 263,659; published June 5, 1928.
Shirts, pajamas, underwear, etc. Wallach Brothers. 246,594; Sept. 11; Serial No. 263,627; published June 12, 1928.
Shirts, underwear, and pajamas. H. C. Chandgie. 246,808; Sept. 11.
Shirts, underwear, trousers, etc. Raymond Syndicate, Inc. 246,637; Sept. 11; Serial No. 263,893; published June 12, 1928.
Shoes. J. Costaras. 246,682; Sept. 11; Serial No. 259,321; published May 29, 1928.
Shoes. Delman, Inc. 246,648; Sept. 11; Serial No. 263,314; published June 5, 1928.
Shoes. Devine & Yungel Shoe Mfg. Co. 246,612; Sept. 11; Serial No. 262,214; published June 5, 1928.
Shoes. Meyer Rudolph Shoe Company. 246,521; Sept. 11; Serial No. 264,250; published June 19, 1928.
Shoes. Shipley & Sons. 246,800; Sept. 11; Serial No. 259,141; published June 12, 1928.
Shoes. Stewart-Dawes Shoe Co. 246,701; Sept. 11; Serial No. 260,296; published June 26, 1928.
Shoes and slippers. Elias-Katz Shoe Factories. 246,596; Sept. 11; Serial No. 263,465; published June 5, 1928.
Shoes, Leather. J. Fitzpatrick. 246,647; Sept. 11; Serial No. 263,868; published June 5, 1928.
Shoes, Leather. Keehn Brothers. 246,595; Sept. 11; Serial No. 263,608; published June 12, 1928.
Shoes, Leather. A. N. Wolf Shoe Company. 246,484; Sept. 11; Serial No. 263,909; published June 19, 1928.
Shoes, Women's. Hub Shoe Company. 246,802; Sept. 11; Serial No. 257,927; published June 12, 1928.
Shoes, Women's. Shu-Stiles, Incorporated. 246,788; Sept. 11; Serial No. 260,195; published Apr. 24, 1928.
Socks for infants and children. Herbert Hosiery Mills, Inc. 246,634; Sept. 11; Serial No. 264,105; published June 5, 1928.
Suits. A. B. Frank Company. 246,707; Sept. 11; Serial No. 256,458; published June 19, 1928.
Suits. Haspel Brothers, Inc. 246,602; Sept. 11; Serial No. 264,232; published June 5, 1928.

Suits and overcoats, Men's. B. Beekman. 246,597; Sept. 11; Serial No. 264,553; published June 12, 1928.
Suits and overcoats, Men's. Hickey-Freeman Co. 246,644; Sept. 11; Serial No. 264,820; published June 12, 1928.
Sweaters, bathing suits, knitted dresses, etc. H. L. Peterzell. 246,704; Sept. 11; Serial No. 255,074; published June 19, 1928.
Tuxedos, men's suits, and young men's suits. J. Elsner & Sons Co. 246,501; Sept. 11; Serial No. 263,118; published June 5, 1928.
Undergarments. Felnberg & Sussberg, Inc. 246,657; Sept. 11; Serial No. 236,125; published Dec. 7, 1926.
Underwear. Rice-Stix Dry Goods Company. 246,670; Sept. 11; Serial No. 254,096; published June 5, 1928.
Underwear for children. P. H. Hanes Knitting Company. 246,561–2; Sept. 11; Serial Nos. 261,054–5; published June 12, 1928.
Uniforms, dresses, and aprons. Jacobs Brothers, Incorporated. 246,638; Sept. 11; Seral No. 263,826; published June 5, 1928.
Vests, drawers, and union suits. R. K. Deimel. 246,636; Sept. 11; Serial No. 263,934; published June 5, 1928.

CLASS 40.

Hatbands. Columbia Ribbon Co. 246,646; Sept. 11; Serial No. 264,422; published June 19, 1928.
Knitting sets, Hand. S. B. & B. W. Fleisher, Inc. 246,786; Sept. 11; Serial No. 260,564; published June 26, 1928.
Lacings, Shoe. Shoe Lace Company. 246,809; Sept. 11.
Lacings, tapes, beltings, etc. International Braid Company. 246,814; Sept. 11.

CLASS 42.

Carpets, Textile. Hardwick & Magee Company. 246,816; Sept. 11.
Handkerchiefs. M. R. Webb. 246,771; Sept. 11; Serial No. 266,001; published June 19, 1928.

CLASS 44.

Cord for cleaning, bleaching, etc. A. M. Wilson. 246,805; Sept. 11.
Deaf sets. Graybar Electric Company. 246,672–5; Sept. 11; Serial Nos. 259,725–8; published June 19, 1928.
Electromagnetic apparatus and parts thereof. A. Halpern. 246,689; Sept. 11; Serial No. 257,756; published June 26, 1928.
Magnetic medical apparatus. G. S. White. 246,807; Sept. 11.
Therapeutic lamps. Sanitarium Equipment Company. 246,722; Sept. 11; Serial No. 265,501; published June 26, 1928.
Tooth crowns. Berry Dental Laboratory Co. 246,804; Sept. 11; Serial No. 257,399; published June 19, 1928.
Vibrators and hair dryers, Electric. A. C. Gilbert Company. 246,623–4; Sept. 11; Serial Nos. 265,101–2; published June 19, 1928.
Vibratory massage apparatus. Westing Appliance Co. 246,750; Sept. 11; Serial No. 264,621; published June 26, 1928.

CLASS 45.

Beverages. East Side Bottling Works. 246,656; Sept. 11; Serial No. 238,168; published Nov. 30, 1926.

CLASS 46.

Beans, peas, lentils, etc., Dried. John F. Lalla Company. 246,737; Sept. 11; Serial No. 265,666; published June 26, 1928.
Biscuit, cake, and crackers. National Biscuit Company. 246,591; Sept. 11; Serial No. 265,395; published June 19, 1928.
Cakes. Cox Baking Co. 246,818–19; Sept. 11.
Canned beans, fig syrup, and spinach. Angleton Fig Company. 246,608; Sept. 11; Serial No. 262,346; published June 19, 1928.
Canned olives. A. V. Stuart. 246,616; Sept. 11; Serial No. 265,174; published June 19, 1928.
Canned olives. A. V. Stuart. 246,738; Sept. 11; Serial No. 265,584; published June 26, 1928.
Coconut, Desiccated. J. D. McCord. 246,653; Sept. 11; Serial No. 243,870; published June 26, 1928.
Coffee, tea, extracts, spices, etc. E. A. Kline. 246,514; Sept. 11; Serial No. 264,310; published June 19, 1928.
Condiments, canned fruits, etc. H. P. Larsen. 246,659; Sept. 11; Serial No. 234,135; published June 26, 1928.
Dairy and farm products. G. W. French. 246,579; Sept. 11; Serial No. 263,385; published June 26, 1928.
Eggs. A. H. Kisker. 246,795; Sept. 11; Serial No. 260,021; published June 19, 1928.
Eggs, Frozen. Titman Egg Corporation. 246,593; Sept. 11; Serial No. 265,024; published June 19, 1928.
Eggs, ice cream, dairy products. Los Angeles Creamery Company. 246,661; Sept. 11; Serial No. 226,667; published June 19, 1928.
Feeds, Poultry, etc. Atco Feed & Supply Co. 246,773; Sept. 11; Serial No. 252,878; published June 26, 1928.
Flour, Wheat. Fisher Flouring Mills Company. 246,584; Sept. 11; Serial No. 266,307; published June 19, 1928.
Flour, Wheat. International Milling Company. 246,587; Sept. 11; Serial No. 265,795; published June 19, 1928.
Food, Dog. Spratt's Patent (America) Limited. 246,589; Sept. 11; Serial No. 265,581; published June 19, 1928.
Gelatin. Swift and Company. 246,768; Sept. 11; Serial No. 266,054; published June 26, 1928.
Ice cream. Hendler Creamery Company. 246,618; Sept. 11; Serial No. 265,156; published June 19, 1928.
Ice cream, dairy products. Los Angeles Creamery Co. 246,660; Sept. 11; Serial No. 226,666; published June 19, 1928.
Marshmallow bars. Marshak Maltmoiak Co. Inc. 246,820; Sept. 11.
Milk drink, Flavored. Telling Belle Vernon Company. 246,485; Sept. 11; Serial No. 263,899; published June 19, 1928.
Mush and a spread for sandwiches. J. S. Lindsay. 246,545; Sept. 11; Serial No. 262,097; published June 19, 1928.
Noodles, Chow mein. L. L. Ginsberg. 246,736; Sept. 11; Serial No. 265,790; published June 26, 1928.
Olives, rice, macaroni, etc. Scoville, Brown & Company. 246,777; Sept. 11; Serial No. 249,813; published June 19, 1928.
Pie-crust preparation. M. C. Sowell. 246,649; Sept. 11; Serial No. 264,850; published June 19, 1928.
Poultry and eggs. J. L. Humphrey, jr. 246,626; Sept. 11; Serial No. 265,335; published June 26, 1928.
Ravioli and mushroom sauce. Mama's Ravioli Company. 246,650; Sept. 11; Serial No. 245,279; published June 26, 1928.
Rice. Lake Charles Rice Milling Company of Louisiana, Inc. 246,586; Sept. 11; Serial No. 265,846; published June 19, 1928.
Sauce, Spaghetti. P. Squindo. 246,731; Sept. 11; Serial No. 265,414; published June 26, 1928.
Spice, Liquid pickling. Standfort Spice Co. 246,527; Sept. 11; Serial No. 265,022; published June 19, 1928.
Syrup (canned), Malt. M. H. Gertner. 246,705; Sept. 11; Serial No. 256,186; published June 26, 1928.
Syrup, Food-flavoring. E. A. Tyler. 246,620; Sept. 11; Serial No. 265,128; published June 26, 1928.
Syrup, Malt. Horse Shoe Malt Company. 246,617; Sept. 11; Serial No. 265,157; published June 19, 1928.
Syrup, Malt. N. Wasserstrom. 246,767; Sept. 11; Serial No. 266,065; published June 26, 1928.
Vegetable stearine. Best Foods, Inc. 246,619; Sept. 11; Serial No. 265,134; published June 26, 1928.

CLASS 50.

Bottle caps. Cupples Company, Manufacturers. 246,477; Sept. 11; Serial No. 264,083; published June 12, 1928.
Bottle stoppers, Dispensing. Anderson-Pitt Corporation. 246,574; Sept. 11; Serial No. 263,578; published June 12, 1928.
Cloth, Processed or coated. Cleveland Liner & Manufacturing Company. 246,693; Sept. 11; Serial No. 260,716; published June 19, 1928.
Incubators and brooders. Drew Line Company. 246,476; Sept. 11; Serial No. 264,088; published June 5, 1928.
Plaques, statuettes, wall sconces, and candlesticks. Rich-Craft Studios, Inc. 246,686; Sept. 11; Serial No. 253,192; published June 5, 1928.
Presses, Necktie. Morton Co. 246,716; Sept. 11; Serial No. 257,376; published June 19, 1928.
Printing plates and blocks, Metal. Pantone Processes Limited. 246,746; Sept. 11; Serial No. 264,472; published June 19, 1928.
Printing plates and blocks, Metal. Pantone Processes Limited. 246,747; Sept. 11; Serial No. 264,476; published June 19, 1928.
Rubber sheeting. J. C. Penney Company. 246,535; Sept. 11; Serial No. 264,907; published June 19, 1928.
Sanitary milk-bottle cover. R. E. Landes. 246,699; Sept. 11; Serial No. 260,573; published June 5, 1928.
Signs, road signs, and trail markers, Metal. Western Stamping and Manufacturing Company. 246,654; Sept. 11; Serial No. 241,918; published June 5, 1928.
Stands, Bases, breaks, and other trim for. Grand Wood Works, Inc. 246,560; Sept. 11; Serial No. 261,111; published June 19, 1928.
Underlay fabric for rugs. P. T. Stoffel. 246,531; Sept. 11; Serial No. 264,922; published June 26, 1928.
Zinc and copper printing plates, electrotypes. Pontiac Engraving & Electrotype Co. 246,708–9; Sept. 11; Serial Nos. 256,637–8; published June 5, 1928.
Zinc and copper printing plates, electrotypes. Pontiac Engraving & Electrotype Co. 246,710; Sept. 11; Serial No. 256,640; published June 5, 1928.

ALPHABETICAL LIST OF LABELS.

Banner Milk. For Unsweetened Evaporated Milk. Challenge Cream and Butter Association. 34,546; Sept. 11.
Brav Shoe Co. Inc. For Boxes. Hoague-Sprague Corporation. 34,548; Sept. 11.
Butter Bakt. For Bread. Zakas Bakery. 34,580; Sept. 11.
C. E. Stone Co. For Boxes. Hoague-Sprague Corporation. 34,559; Sept. 11.
Carcion Manfre & Co. For Boxes. Hoague-Sprague Corporation. 34,563; Sept. 11.
Crowley Milner & Co. For Boxes. Hoague-Sprague Corporation. 34,564; Sept. 11.
Dickson-Ives Company. For Boxes. Hoague-Sprague Corporation. 34,550; Sept. 11.
Dixie Made Rolls. For Rolls. Texas Bread Company. 34,578; Sept. 11.
Dr. Shibe's. For Boxes. Hoague-Sprague Corporation. 34,549; Sept. 11.
80 and 20—100%. Prepared Paint. J. F. Kurfees Paint Company. 34,566; Sept. 11.
55 Brand. For General Merchandise. L. P. Lewandowski. 34,567; Sept. 11.
Frisch Process. For Bread. E. Frisch. 34,547; Sept. 11.
Gilchrist's. For Boxes. Hoague-Sprague Corporation. 34,551; Sept. 11.
Great Covering Power. For Paints. Old Gold Combination White Lead & Color Corporation. 34,570; Sept. 11.
Hageman's. For Boxes. Hoague-Sprague Corporation. 34,557; Sept. 11.
Henri Boot Shop. For Boxes. Hoague-Sprague Corporation; 34,555; Sept. 11.
Litvack Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,553; Sept. 11.
Lush'us Brand Peas. For Peas. Lush'us Products Co. 34,568; Sept. 11.
Nopco Cod Liver Oil. For Cod-Liver Oil For Poultry and Animal Feeding. National Oil Products Company. 34,569; Sept. 11.
Old Gold White Lead. For Paint. Old Gold Combination White Lead & Color Corporation. 34,571; Sept. 11.
Old Gold Zinc Lead. For Paint. Old Gold Combination White Lead & Color Corporation. 34,572; Sept. 11.
Parisian Style By Maurice. For Boxes. Hoague-Sprague Corporation. 34,560; Sept. 11.
Perfect Nutrition. For a Preparation of Dehydrated Vegetables. Perfect Nutrition Company. 34,574; Sept. 11.
Prosperity Shoe Co. Inc. For Boxes. Hoague-Sprague Corporation. 34,552; Sept. 11.
Queen's Dessert. For a Dessert Preparation. Queens Laboratories. 34,575; Sept. 11.
Sardinola. For Canned Sardines. K. Hovden Co. 34,565; Sept. 11.
Saxon Cullum Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,558. Sept. 11.
Skovbo For Honey. J. J. Skovbo. 34,576; Sept. 11.
Tex Sandwich Loaf. For Bread. Texas Bread Company. 34,577; Sept. 11.
Thayer McNeil Company. For Boxes. Hoague-Sprague Corporation. 34,562; Sept. 11.
The French Bootery. For Boxes. Hoague-Sprague Corporation. 34,556; Sept. 11.
The Guarantee Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,561; Sept. 11.
Trump Cookies. For Cookies. Pacific Coast Biscuit Company. 34,573; Sept. 11.
Whiddon's. For Boxes. Hoague-Sprague Corporation. 34,554; Sept. 11.
Whiting's Cranford Vellum. For Stationery. Whiting Paper Company. 34,579; Sept. 11.

ALPHABETICAL LIST OF PRINTS.

Dynamique Creations. For Wooden Household Furniture. Johnson-Handley-Johnson Company. 11,209; Sept. 11.
For the Hot Days Ahead. For Wheat Breakfast Food. Cream of Wheat Co. 11,207; Sept. 11.
Here's Why Hanover Shirts Are Superior. For Shirts. Hanover Shirt Company. 11,208; Sept. 11.
Say Kecks. For a Beverage—Namely, Cocoa. W. G. Keck. 11,210; Sept. 11.
Syfo. For Valves. United Products Company. 11,211; Sept. 11.
The King's Messenger Rode Far Bearing the Illuminated Scrolls of His Royal Master. For Personal Stationery. Black, Starr & Frost. 11,206; Sept. 11.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF SEPTEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,683,589; Sept. 11.

Abbey, Orville E., Corning, Iowa. Automobile license-certificate holder. 1,683,645; Sept. 11.

Abbott, Charles M., Watertown, Mass., assignor to Samuel Cabot, Inc. Making imitation hand-rift shingles. 1,683,751; Sept. 11.

Adams, Harry F. Greenport N. Y. Building block. 1,684,050; Sept. 11.

Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Car seat. 1,684,301; Sept. 11.

Aeolian Company, The. (See Zaiser, William, assignor.)

Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)

Akers, Herbert S., Montvale N. J., assignor to The Kny-Scheerer Corporation of America, New York, N. Y. Therapy and infra-red-ray lamp. 1,684,081; Sept. 11.

Aktiengesellschaft Brown, Boveri & Cie. (See Haller, Arnold, assignor.)

Alexander, Paul P., Worcester, Mass. Spark plug. 1,683,596; Sept. 11.

Allan, William, Dundee, Scotland. Internal-combustion engine. 1,684,293; Sept. 11.

Allen John W., Burnley, England. Wiping device for window screens, windows, and the like. 1,683,943; Sept. 11.

Allen, Robert C., Swartmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power plant. 1,684,082; Sept. 11.

Alox Chemical Corporation. (See Burwell, Arthur W., assignor.)

Altgelt, Herman E., assignor to Oliver Chilled Plow Works, South Bend, Ind. Planter. 1,684,211; Sept. 11.

American Can Company. (See Lindgren, Stanley H., assignor.)

American Electric Motor Company. (See Daun, C. L., and Keller, assignors.)

American Electric Motor Company. (See Keller, Paul E., assignor.)

American Glue Company. (See Campbell, Charles H., assignor.)

American Laundry Machinery Company, The. (See Johnson, George W., assignor.)

American Multigraph Company, The. (See Morse, Lawrence H., assignor.)

American Piano Company. (See Dudley, Boyd, jr., assignor.)

American Radiator Company. (See Mertzanoff, André M., assignor.)

American Sheet and Tin Plate Company. (See McArthur, Arthur R., assignor.)

American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)

American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)

American Telephone and Telegraph Company. (See Stone, John S., assignor.)

Amsler-Morton Company, The. (See Morton, William A., assignor.)

Amstutz, Noah S. (See Sievers, Arthur W., assignor.)

Anderson, Alfred G., New York, N. Y. Bridge-lamp display fixture. Des. 76,278; Sept. 11.

Anderson, Francis W., Seattle, Wash. Spacer. 1,684,051; Sept. 11.

Andronowicz, John, assignor of one-half to B. Bikin, Chicago, Ill. Pottery-forming die. 1,683,855; Sept. 11.

Aplin, Ole F., Culbertson, Mont. Grain-bin feed. 1,684,338; Sept. 11.

Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Bolster. 1,684,302; Sept. 11.

Ashtabula Bow Socket Company, The. (See Leach, S. J., and Eberle, assignors.)

Asiatic Petroleum Company. (See Lawson, Joseph, assignor.)

Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Impulse lightning arrester. 1,683,590; Sept. 11.

Atlantic Aircraft Corporation. (See Fokker, Anthony H. G., assignor.)

Austin, Dwight E., assignor to The Pickwick Corporation, Los Angeles, Calif. Valve means. 1,683,813; Sept. 11.

Austin, Harry A., Kalamazoo, Mich. Plug for electric-light sockets. 1,684,166; Sept. 11.

Automatic Electric Inc. (See Bellamy, J. I., and Gardner, assignors.)

Automatic Motor Control Corporation. (See Zitzmann, George, assignor.)

Avenson, Lorenzo M., St. Paul, Minn. Pulp beater. 1,683,597; Sept. 11.

Babcock, William H., Groton, Conn. Dirigible headlight for automobiles. 1,684,294; Sept. 11.

Baetz, Lester, Detroit, assignor to The Beals & Selkirk Trunk Co., Wyandotte, Mich. Traveling bag. Des. 76,279; Sept. 11.

Bailey, Allen E., jr. (See Brown, W. H., and Bailey.)

Bailey, Joseph O., Atlanta, Ga. Endless spiral conveyor. 1,684,254; Sept. 11.

Bailey, Rufus W., Kansas City, Mo. Automotive bus. 1,684,303; Sept. 11.

Baily, Thaddeus F., Alliance, Ohio. Automatic control device. 1,683,856; Sept. 11.

Bakelite Gesellschaft mit beschränkter Haftung. (See Seebach, Fritz, assignor.)

Baker Brothers. (See Hallenbeck, George E., assignor.)

Baker, Edward A., Mansfield, Ohio. Guard cage. 1,684,122; Sept. 11.

Balch, John L., Potlatch, Idaho. Tray. 1,683,944; Sept. 11.

Baldwin, Nathaniel, East Mill Creek, Utah. Telephone receiver. 1,683,945; Sept. 11.

Baldwin, Nathaniel, East Mill Creek, Utah. Loud speaker. 1,683,946; Sept. 11.

Banner, Otto A., assignor to The Falk Corporation, Milwaukee, Wis. Oil engine. 1,683,752; Sept. 11.

Barchfeld, Martin J., Pittsburgh, Pa. Brush for cleaning artificial dentures. 1,683,947; Sept. 11.

Barclay, Earle H. (See Patrick, W. A., and Barclay.)

Barnhart, Edwin. (See Bent, Q., Barnhart, and Wood.)

Barry, Donald S., Cedar Rapids, Iowa. Loader. 1,683,646; Sept. 11.

Barth, Joseph L., Bismarck, N. Dak. Pedograph and metatarsal-pad locator. 1,684,330; Sept. 11.

Barton, Charles W., Portsmouth, Ohio. Automatic injector. 1,683,647; Sept. 11.

Bartz, Ernst. (See Boelter, R., and Bartz.)

Bassick Manufacturing Company, The. (See Zerk, Oscar, assignor.)

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 76,280; Sept. 11.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 76,281; Sept. 11.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 76,282; Sept. 11.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 76,283; Sept. 11.

Baumann, Adolph, and W. van Rijswijk, Baden, Switzerland. Closed-circuit cooling for electrical machines. 1,683,591; Sept. 11.

Bay State Fishing Company. (See Gallison, Ernest A., assignor.)

Baynard, William H., Boston, assignor to H. H. Beckwith, Brookline, Mass. Apparatus for assembling stiffeners in shoe uppers. 1,684,052; Sept. 11.

Beals & Selkirk Trunk Co., The. (See Baetz, Lester, assignor.)

Beasley, Clifford H., assignor of one-half to Parkinson and W. & B. Cowan Limited, Birmingham, England. Escapement-controlling mechanism. 1,683,648; Sept. 11.

Beauchamp, Robert B., East Cleveland, Ohio. Speed-changing mechanism. 1,684,167; Sept. 11.

Becker, Joseph, assignor of twenty-five per cent to J. Nisbet and twenty-five per cent to H. C. Woodward, Shelby, Mont. Shock absorber for drilling rigs. 1,683,948; Sept. 11.

Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Chain-stitch sewing machine. 1,684,004; Sept. 11.

Beckwith, Harry H. (See Baynard, William H., assignor.)

Beckwith Manufacturing Company. (See Clapp, Albert L., assignor.)

Beeneken, Adolf, Berlin, Germany. Apparatus for obtaining synchronism between picture and music in cinematographic performances. 1,683,753; Sept. 11.

Bell, William M., Portsmouth, Ohio. Auxiliary container for toilets. 11,683,754; Sept. 11.

Beliak, Charles M., New York, N. Y. Cigarette holder. 1,684,005; Sept. 11.

Bellamy, John I., Brookfield, and J. E. Gardner, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,683,857; Sept. 11.

Belote, Massie M., Valdosta, Ga. Lock for service cocks. 1,683,649; Sept. 11.
Belt, William O. (See French, Robert G., assignor.)
Benade, Walther. (See Siebert, O., Thiess, Schöner, Schmidlin, Benade, and Deicke.)
Benoit, Harold W., Watertown, N. Y. Socket and fuse plug. 1,683,598; Sept. 11.
Bent, Quincy, Bethlehem, Pa., E. Barnhart, Sparrows Point, Md., and F. W. Wood, Philadelphia, assignors to Bethlehem Steel Company, Bethlehem, Pa. Treatment of ores. 1,684,006; Sept. 11.
Berg, Boris J., New York, N. Y. Coling and fire-prevention apparatus for motion-picture projectors. 1,684,304; Sept. 11.
Bergdoll, John G., assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Brine circulator. 1,683,949; Sept. 11.
Berger, Christian, Brooklyn, N. Y., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Indicating chart and viewing the same. 1,684,212; Sept. 11.
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Magnetic wedge. 1,684,255; Sept. 11.
Berke, Raymond O., Albuquerque, N. Mex. Display stand. 1,684,340; Sept. 11.
Berry, Percy W., Reading, England, assignor, by mesne assignments, to Holophane Company, Inc., New York, N. Y. Luminair. 1,683,599; Sept. 11.
Bethel, Claude, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rotary oiler. 1,684,341; Sept. 11.
Bethel, Claude, Wilkinsburg, and F. W. McCloskey, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. Rotary oiler and ventilation. 1,684,168; Sept. 11.
Bethlehem Steel Company. (See Bent, Q., Barnhart and Wood, assignors.)
Bethlehem Steel Company. (See Cort, Stewart J., assignor.)
Bethlehem Steel Company. (See Schenck, C., and Fine, assignors.)
Betts, Arthur L., Cincinnati, Ohio, assignor to A. Davis, jr., Covington, Ky. Static eliminator. 1,683,592; Sept. 11.
Bigelow, Frank M., Jeannette, Pa. Glass mold. 1,683,755; Sept. 11.
Bikin, Bruno. (See Andronowicz, John, assignor.)
Bischof, Ulrich, Horgen, Switzerland, assignor, by mesne assignments, to Smyth Manufacturing Company, Hartford, Conn. Saddle for the tables of thread-stitching machines. 1,684,342; Sept. 11.
Blache, Hans H., Hellerup, near Copenhagen, Denmark. Stuffing box for propeller shafts. 1,683,756; Sept. 11.
Black, Archibald, Garden City, N. Y. Building construction. 1,683,600; Sept. 11.
Black, Millard S., Huntington Park, Calif. Casing perforator. 1,683,858; Sept. 11.
Blaisdell, William W., New York, N. Y. Treating oil shales and other bituminous materials. 1,684,007; Sept. 11.
Bliss, Donald M., assignor to Bodine Electric Company, Chicago, Ill. Alternating-current commutator motor. 1,683,601; Sept. 11.
Bliss, Donald M., assignor to Bodine Electric Company, Company. Control system. 1,684,256; Sept. 11.
Blizoitis, George E., Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company. Microphone system. 1,684,053; Sept. 11.
Block, Leslie W., Webster Groves, Mo. Hinge. 1,683,814; Sept. 11.
Bloom, Samuel C., Chicago, Ill. Refrigerating coil. 1,684,083; Sept. 11.
Blunt, James G., Schenectady, N. Y. Locomotive-driving-box cellar. 1,684,213; Sept. 11.
Boardman, David W., Los Angeles, Calif. Ladder. 1,684,123; Sept. 11.
Bodine Electric Company. (See Bliss, Donald M., assignor.)
Boelter, Richard, and E. Bartz, Berlin, Germany, assignors to General Electric Company. Snap-switch movement. 1,684,257; Sept. 11.
Boetticher, Gustav A., assignor to Multi-Needle Engineering Corporation, Jamaica, N. Y. Mechanical movement and regulating device. 1,683,650; Sept. 11.
Boggs, Atwood L., Stoughton, Mass. Dispensing apparatus. 1,684,258; Sept. 11.
Bolinders, J. & C. G., Mekaniska Verkstads Aktiebolag. (See de Waern, Bror A., assignor.)
Borchert, Fred L., Rockford, Ill. Cup dispenser. 1,683,950; Sept. 11.
Bouslog, John G., Anaheim, Calif. Rod rack. 1,684,008; Sept. 11.
Bovard, Fritz, Bern, Switzerland. Manufacturing match packages. 1,683,651; Sept. 11.
Boyd, Elton L., and J. T. Johnson, Healdton, Okla. Combination working barrel and sand trap. 1,684,295; Sept. 11.
Brackett, Francis W., Colchester, England. Screening apparatus. 1,684,305; Sept. 11.
Brandstetter, Josef, Chicago, Ill. Automatic stop for electrically-driven phonographs. 1,684,084; Sept. 11.
Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 76,284; Sept. 11.
Brauer, Walter, Seminole, Okla. Valve-seat puller. 1,683,757; Sept. 11.
Bray, Mellen N., assignor to Tubular Rivet & Stud Company, Boston, Mass. Fastener-inserting machine. 1,683,652; Sept. 11.
Bremer, Frederick G., assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,684,259; Sept. 11.
Bridgeport Brass Company. (See Oakley, Erastus G., assignor.)
Briggs Manufacturing Company. (See Lundberg, Everett E., assignor.)
Brill, J. G., Company, The. (See Adams, Walter S., assignor.)
Brill, J. G., Company, The. (See Brooks, James A., assignor.)
British Synthetics Limited. (See Higgins, Eric B., assignor.)
Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Engine-cooling system. 1,683,602; Sept. 11.
Brodsky, Gregory, Worcester, Mass. Pressing or punching machine. 1,684,296; Sept. 11.
Brooks, James A., Kirklyn, assignor to The J. G. Brill Company, Philadelphia, Pa. Car seat. 1,684,306; Sept. 11.
Brown & Sharpe Manufacturing Company. (See Brown, Francis P., assignor.)
Brown Company. (See Johnson, Charles A., assignor.)
Brown Company. (See Richter, George A., assignor.)
Brown, Francis P., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Grinding machine. 1,683,859; Sept. 11.
Brown, Gra C., and G. F. McNulty, assignors to The Reynolds Machine Company, Massillon, Ohio. Screw-driving machine. 1,683,815; Sept. 11.
Brown, Harold M., Elmhurst, Ill. Antenna. 1,684,009; Sept. 11.
Brown, Harold W., and A. E. Bailey, jr., Schenectady, N. Y., assignors to General Electric Company. Vibratory device. 1,684,260; Sept. 11.
Brown, Peter, Chicago, Ill., assignor to O-Cedar Corp'n. Mop. 1,683,816; Sept. 11.
Brown, Peter, Chicago, Ill., assignor to O-Cedar Corp'n. Mop head. 1,683,817; Sept. 11.
Brown, William M., Johnston, Pa. Conveyer. 1,683,653; Sept. 11.
Brown, William W., Schenectady, N. Y., assignor to General Electric Company. Automatic antenna regulator. 1,684,261; Sept. 11.
Bruce, E. (See Gray, James L., assignor.)
Brueckne, Julius R., and H. L. Clark, assignors to Gibb Welding Machines Company, Bay City, Mich. Apparatus for lap welding. 1,684,169; Sept. 11.
Buckeye Steel Castings Company, The. (See Whitridge, J. C., and Johnson, assignors.)
Budd, Howard L., Brooklyn, N. Y. Shaker or similar article. Des. 76,285; Sept. 11.
Buel, Walter, St. Louis, Mo. Grave cover. 1,683,654; Sept. 11.
Bulova, Adolph, assignor to Bulova Watch Company, Inc., New York, N. Y. Wrist-strap device. 1,684,054; Sept. 11.
Bulova Watch Company. (See Bulova, Adolph, assignor.)
Burgess, Joseph E., Astoria, assignor to The United States Printing & Lithograph Company, Brooklyn, N. Y. Display stand. 1,684,124; Sept. 11.
Burroughs Adding Machine Company. (See Butler, Thomas M., assignor.)
Burwell, Arthur W., Niagara Falls, assignor to Alox Chemical Corporation, New York, N. Y. Atomizable mobile fuel product. 1,684,125; Sept. 11.
Burwell, Ray F., Alexandria, assignor of forty-nine one-hundredths to F. Theanders, Marion, Ind. Table. 1,683,711; Sept. 11.
Busch-Sulzer Bros.-Diesel Engine Co. (See Rotter, Max, assignor.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Schaeren, Ernst, assignor.)
Bush, A. G. (See Criner, Harry J., assignor.)
Butler, Thomas M., assignor to Burroughs Adding Machine Company, Detroit, Mich. Cash register. Des. 76,286; Sept. 11.
Butterfield, Andrew M., Bath, Me. Ship's steering gear. 1,684,307; Sept. 11.
Buttron, Willard C., Albany, N. Y. Traffic-signal observer. 1,683,951; Sept. 11.
Cabot Samuel, Inc. (See Abbott, Charles M., assignor.)
Cadenhead, Arnold L. (See Henry, M. B., and Cadenhead.)
Cadman, Wilson K., Eureka, Kans. Phantograph. 1,683,952; Sept. 11.
Cady, Walter H., and C. E. Rahr, Brookline, assignors to The Flintkote Company, Boston, Mass. Apparatus for handling asphalt and similar material. 1,683,604; Sept. 11.
Cage, Leland A. (See Etheredge, John H., assignor.)
Cahill, Thomas E., Ardmore, Pa. Game. 1,683,860; Sept. 11.
Cameron, Hugh M., New York, N. Y., assignor to Elder & Robinson, Chicago, Ill. Counter scale. 1,683,861; Sept. 11.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway-car construction. 1,684,010; Sept. 11.
Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Rubber composition. 1,683,862; Sept. 11.

Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Rubber composition. 1,683,863; Sept. 11.
Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Rubber composition and process relating thereto. 1,683,864; Sept. 11.
Candee, Allan H., and E. Wildhaber, assignors to Gleason Works, Rochester, N. Y. Gear. 1,683,758; Sept. 11.
Canfield, Edith B., Holton, Kans. Picnic service kit. 1,683,603; Sept. 11.
Carborundum Company, The. (See Manley, Ralph B., assignor.)
Cardellino, Michelangelo M., Turin, Italy. Ignition apparatus for internal-combustion engines. 1,684,343; Sept. 11.
Carlson, Oscar, Minneapolis, Minn. Combined mop head and wringer. 1,683,655; Sept. 11.
Carlton, Jack C., assignor to The Carlton Machine Tool Company, Cincinnati, Ohio. Transmission for radial drill arms, elevating mechanism, and drill spindles. 1,684,344; Sept. 11.
Carlton Machine Tool Company, The. (See Carlton, Jack C., assignor.)
Caro Cloth Corporation. (See Walsh, Patrick H., assignor.)
Caron, Samuel U., Chicago, Ill. Combined mirror and support. Des. 76,289; Sept. 11.
Carr, Frank T., Hardwick, Vt. Vehicle lamp closure plate. Des. 76,290; Sept. 11.
Carr, Thomas B., Midwest, Wyo. Multiple template. 1,683,953; Sept. 11.
Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Multiple fly wheel and centrifugal clutching mechanism therefor. 1,683,954; Sept. 11.
Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Belt drive for refrigerating machines. 1,683,955; Sept. 11.
Carrey-Morse Engineering Company. (See Carrey, John O., assignor.)
Carson, Clarence M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Fabric and treating same. 1,683,759; Sept. 11.
Carter, Joseph P., Los Angeles, Calif. Vehicle signaling means. 1,683,818; Sept. 11.
Cary, Elmer E., Hollywood, Calif. Cooker. 1,684,297; Sept. 11.
Cash, Robert W., Hannibal, Mo. Child's vehicle. 1,684,298; Sept. 11.
Cast Steel Devices Company, The. (See Pierce, Elwood K., assignor.)
Centeno V. Melchor, Chicago, Ill. Safety appliance for tools. 1,684,345; Sept. 11.
Central Alloy Steel Corporation. (See O'Brien, William C., assignor.)
Centrifix Corporation. (See Hawley, Charles G., assignor.)
Chain Products Company, The. (See Hodell, Frederick G., assignor.)
Chamberlain, Ernest B. (See Chamberlain, Frederic W. and E. B.)
Chamberlain, Frederic W., Three Oaks, Mich., and E. B. Chamberlain, New York, N. Y., assignors to The Warren Featherbone Co., Three Oaks, Mich. Toy bow. 1,683,865; Sept. 11.
Chandler, Jermain, Toledo, Ohio. Tooth scrubber. 1,683,866; Sept. 11.
Chapman Valve Manufacturing Company, The. (See Nickerson, Elmer K., assignor.)
Chicago Pneumatic Tool Company. (See Davenport, Ransom W., assignor.)
Chievitz, William J., assignor to The Timken Roller Bearing Company, Canton, Ohio. Bearing. 1,683,593; Sept. 11.
Chievitz, William J., assignor to The Timken Roller Bearing Company, Canton, Ohio. Shaft bearing. 1,683,594; Sept. 11.
Chocolat Tobler Holding Co., Aktiengesellschaft. (See Egli, Arnold A., assignor.)
Christensen, Lewis H. (See D'Ardenne, W. H., Landis, and Christensen.)
Cichon, Albert J., San Antonio, Tex. Filing fixture. 1,684,011; Sept. 11.
Cieslewics, Stanislaus J. (See Paluck, Alexander E., assignor.)
Cincinnati Grinders Incorporated. (See Heim, Lewis R., assignor.)
Clapp Albert L., Danvers, assignor to Beckwith Manufacturing Company, Boston, Mass. Button board and manufacture. 1,683,605; Sept. 11.
Clark, Charles C., Indianapolis, Ind., assignor to Continental Optical Corporation, New York, N. Y. Holder for optical lenses. 1,683,712; Sept. 11.
Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermal plug cut-out. 1,684,170; Sept. 11.
Clark, Homer L. (See Brueckner, J. R., and Clark.)
Clark, Irwin A. (See Kauffman, H. L., and Clark.)
Clement, Frederick C., Philadelphia, Pa. Receptacle closure. 1,684,214; Sept. 11.
Clinker, Reginald C., Bilton, near Rugby, England, assignor to General Electric Company. Antenna. 1,684,262; Sept. 11.
Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Gripping slide for forging machines. 1,683,956; Sept. 11.
Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Delivering mechanism for bolt-trimming machines. 1,683,957; Sept. 11.
Coates, William A., Chorlton-cum-Hardy, England, assignor to Westinghouse Electric & Manufacturing Company. Fluid-pressure tank. 1,683,595; Sept. 11.
Cole, Henry, Company. (See Mayer, Leo, assignor.)
Collway Laboratories, Inc. (See O'Brien, Robert J., jr., assignor.)
Columbia Woolen Company. (See McIlroy, Ronald C., assignor.)
Commonwealth Steel Company. (See Howard, Karl S., assignor.)
Concealed Door Check Company. (See Eastman, Floyd K., assignor.)
Conceale Fixture Company. (See Noack, William A., assignor.)
Condit Electrical Manufacturing Corporation. (See Dunn, William N., assignor.)
Conhaim, Fred, and L. Sweningson, Cleveland, Ohio, assignors to Conhaim Patents Corporation, New York, N. Y. Folding bed. 1,683,958; Sept. 11.
Conhaim Patents Corporation. (See Conhaim, F., and Sweningson, assignors.)
Connell, Harry W., Baldwinsville, N. Y. Nut. 1,684,215; Sept. 11.
Conners, George H., Hartford, Conn. Advertising apparatus. 1,683,760; Sept. 11.
Consolidated Ashcroft Hancock Company. (See Winslow, Sewell E., assignor.)
Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
Continental Optical Corporation. (See Clark, Charles C., assignor.)
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Hot-cathode device. 1,684,263; Sept. 11.
Cope, Joseph H., Denver, Colo. Push off for sweep rakes. 1,684,264; Sept. 11.
Copland, Alexander W., Birmingham, assignor to Detroit Trust Company, Detroit, Mich. Process and apparatus for lapping gears and other objects. 1,683,869; Sept. 11.
Copland, Alexander W., Birmingham, Mich., and M. I. Mathewson, Providence, R. I., assignors to Detroit Trust Company, Detroit, Mich. Truing gears. 1,683,867; Sept. 11.
Copland, Alexander W., Birmingham, Mich., and M. I. Mathewson, Providence, R. I., assignors to Detroit Trust Company, Detroit, Mich. Machine for truing gears. 1,683,868; Sept. 11.
Copple, Oliver A., Cushing, Okla. Vehicle signal. Des. 76,287; Sept. 11.
Coppock, Frederick D., Greenville, Ohio. Textile fabric. Des. 76,288; Sept. 11.
Corman, Edward L., Upland, Calif. Fuel-control mechanism for internal-combustion engines. 1,684,126; Sept. 11.
Cort, Stewart J., assignor to Bethlehem Steel Company, Bethlehem, Pa. Regenerative open-hearth furnace. 1,683,656; Sept. 11.
Coyne, John T., Tacoma, Wash. Pipe. 1,683,959; Sept. 11.
Craig, Edward, St. Joseph, assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich. Berry basket or box. 1,683,761; Sept. 11.
Crain, John J., Waterbury, Conn. Carburetor. 1,684,085; Sept. 11.
Crawford, David F., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. 1,683,960; Sept. 11.
Crawford, Frank, sr., assignor to The Crawford Manufacturing Company, New Brunswick, N. J. Stop motion for knitting machines. 1,684,308; Sept. 11.
Crawford Manufacturing Company, The. (See Crawford, Frank, sr., assignor.)
Criner, Harry J., Burlington, Iowa, assignor to L. V. Kokes and E. L. Vogeltanz, Ord, Nebr. Combined driving mechanism for washing machines and wringers. 1,683,961; Sept. 11.
Criner, Harry J., Clarinda, assignor of one-half to A. G. Bush, Davenport, Iowa. Controlling mechanism for wringers and other machinery. 1,684,265; Sept. 11.
Croft, Hiram D. (See Oakley, J., and Croft.)
Croft, Hiram D. (See Perkins, J. L., and Croft.)
Crown, William F., Aberdeen, assignor of one-fourth to V. E. Hansen, Hoquiam, and one-eighth to H. H. Wilt, Cosmopolis, Wash. Pump. 1,683,962; Sept. 11.
Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Radiocoil. 1,683,606; Sept. 11.
Curtis, Harry, Kemmerer, Wyo. Watch-jewel-setting polisher. 1,683,871; Sept. 11.
Curtis, Will E., Evanston, Ill. Traction apparatus. 1,683,870; Sept. 11.
D'Ardenne, Walter H., Lawndale, J. O. Landis, Fox Chase, and L. H. Christensen, assignors to Heintz Manufacturing Company, Philadelphia, Pa. Work holder for welding. 1,683,762; Sept. 11.

Daun, Carl L., and P. E. Keller, assignors, by mesne assignments, to American Electric Motor Company, Milwaukee, Wis. Bearing. 1,683,608; Sept. 11.
Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Heat engine. Re17,078; Sept. 11.
Davidson, Claude W. (See Wiegner, S. P., Davidson, and Gordon.)
Davis, Augustine, jr. (See Betts, Arthur L., assignor.)
Davis, Ernest, assignor to The Prosperity Company, Incorporated, Syracuse, N. Y. Heat-distributing means. 1,683,607; Sept. 11.
Davis, John H., Boston, Mass. Liquid-dispensing device. 1,684,171; Sept. 11.
Davis, Nathan H., Philadelphia, Pa., assignor to Keystone Lantern Company. Child's vehicle. 1,683,872; Sept. 11.
Dayton, James M., Torrington, Conn. Intermittent ball clutch. 1,684,172; Sept. 11.
Dayton Pump & Mfg. Company, The. (See Eickmeyer, Earl E., assignor.)
Dayton Scale Company. (See Berger, Christian, assignor.)
Dayton Scale Company. (See Hopkinson, Joseph, assignor.)
De Baun, John E., Saddle River, N. J. Building construction. 1,684,127; Sept. 11.
De Bracht, Joseph, assignor of one-half to P. Epringt, Altoona, Pa. Indicator or prompter for household or other purposes. 1,684,346; Sept. 11.
De Forest Phonofilm Corporation. (See Kaufmann, John, assignor.)
Deicke, Bernhard. (See Siebert, O., Thiess, Schöner, Schmidlin, Benade, and Deicke.)
Deicke, Bernhard. (See Thiess, K., Deicke, and Schmidlin.)
Delco-Remy Corporation. (See Turnquist, Edward, assignor.)
Dennison, Robert L., New York, N. Y. Thurst bearing. 1,684,012; Sept. 11.
De Pue, James C., assignor of one-half to C. A. Meyer, San Antonio, Tex. Variable inductance. 1,684,013; Sept. 11.
D'Escayrac, Bernard, New York, N. Y., assignor to Guerlain Perfumery Corporation of New York. Bottle. Des. 76,291; Sept. 11.
Detroit Trust Company. (See Copland, Alexander W., assignor.)
Detroit Trust Company. (See Copland, A. W., and Mathewson, assignors.)
Detroit Vapor Stove Co., The. (See Sherman, A. G., Smith, Ramig, and Roose, assignors.)
De Waern, Bror A., assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Starting and controlling device for internal-combustion motors. 1,684,299; Sept. 11.
De Walt, Raymond E., Leola, Pa. Drill or mortising machine. 1,683,763; Sept. 11.
Diamond, Jacob. (See Diamond, Marcus, S., and J.)
Diamond, Marcus, S., and J., New York, N. Y. Removable card-table cover. 1,684,173; Sept. 11.
Diamond Match Company, The. (See Wright, Charles F., assignor.)
Diamond, Samuel. (See Diamond, Marcus, S., and J.)
Dieterle, Frank, assignor to A. J. Reach Company, Philadelphia, Pa. Adjustable strap connection. 1,683,657; Sept. 11.
Dirkes, Robert F., Jamaica, assignor to The Western Union Telegraph Company, New York, N. Y. Feeding tape and projecting data therefrom. 1,684,309; Sept. 11.
Dobbs, Adna S., New Brunswick, N. J. Holder. 1,684,347; Sept. 11.
Doehler Die-Casting Co. (See Morin, Louis H., assignor.)
Doering, Charles and H. H., Chicago, Ill. Butter-print machine. 1,683,873; Sept. 11.
Doering, Henry H. (See Doering, Charles and H. H.)
Doetsch & Bauer Company. (See Bauer, Carl, assignor.)
Dolbear, Samuel H., New York, N. Y., assignor to Selective Treatment Company Limited, Montreal, Canada. Treating asbestos ore. 1,684,365; Sept. 11.
Dolbear, Samuel H., San Francisco, Calif., assignor to Selective Treatment Company Limited, Montreal, Canada. Treating asbestos ores. 1,684,366; Sept. 11.
Domore Chain Company, The. (See Olson, Percy W.)
Donovan, William J., assignor to Engravers & Printers Machinery Company, Inc., Sag Harbor, N. Y. Engraving machine. 1,684,216; Sept. 11.
Doody, Ray N., Caribou, Me. Rail joint. 1,683,874; Sept. 11.
Dorey, William A., and W. A. Ingler, Newark, Ohio, assignors, by mesne assignments, to Holophane Company, Inc., New York, N. Y. Luminair. 1,683,609; Sept. 11.
Dörr, Wilhelm E., Uberlingen, assignor to Luftschiffbau Zeppelin Gesellschaft mit Beschränkter Haftung, Friedrichshafen, Germany. Gas-inflated airship. 1,683,764; Sept. 11.
Dreux, René. (See Valentin, Paul, assignor.)
Droll, Joseph W., assignor to Droll Patents Corporation, Chicago, Ill. Mattress-beating machine. 1,683,658; Sept. 11.
Droll Patents Corporation. (See Droll, Joseph W., assignor.)
Dryden Rubber Company. (See Kinsley, Richard F., assignor.)
Dudley, Boyd, jr., Syracuse, assignor to American Piano Company, New York, N. Y. Adjusting valve throw. 1,684,014; Sept. 11.
Dudley, Boyd, jr., Syracuse, assignor to American Piano Company, New York, N. Y. Apparatus for adjusting valve throw. 1,684,015; Sept. 11.
Duffy, Charles H. and E. H., Miami, Fla. Golf practicing device. 1,683,875; Sept. 11.
Duffy, Eugene H. (See Duffy, Charles H. and E. H.)
Dunbeck, Joseph R., Rochester, assignor to The Symington Company, New York, N. Y. Mold-jarring device. 1,684,174; Sept. 11.
Dunn, William N., Medford, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,684,016; Sept. 11.
Durepo, Joseph E., Presque Isle, Me. Potato hiller. 1,684,017; Sept. 11.
Duspiva, Václav, Prague, Czechoslovakia. Horizontal-card system. 1,683,765; Sept. 11.
Duthie, William E., Indianapolis, Ind. Valve grinder and mechanical movement. 1,683,876; Sept. 11.
Duquenne, Camille, Paris, France. Furnace arch. 1,683,963; Sept. 11.
Dyde, Gerald R., Portland, Oreg. Waterproofing paste. 1,684,086; Sept. 11.
Eagle Manufacturing Company. (See Paull, John J., assignor.)
Eastman, Floyd K., assignor to Concealed Door Check Company, Kokomo, Ind. Doorcheck. 1,683,713; Sept. 11.
Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rotary oiler. 1,684,175; Sept. 11.
Eberle, Alfred C. (See Leach, S. J., and Eberle.)
Economy Products Corporation. (See Voight, George F., assignor.)
Economy Screw Corporation. (See McCain, Paul H., assignor.)
Edblom, Lester A., and E. K. Knott, Portland, Oreg. Treating blood-stream infections. 1,683,877; Sept. 11.
Edelman, Philip E., Chicago, Ill. Oriented electrical contactor. 1,683,819; Sept. 11.
Edelmann, Emil O., Elberfeld, Germany. Device for bringing and holding heavy welding pieces in a suitable position during the welding process. 1,684,128; Sept. 11.
Edison Electric Appliance Company. (See Kelly, William D., assignor.)
Edison Electric Appliance Company. (See Randolph, Charles P., assignor.)
Edwards, Charles R., Houston, Tex. Pipe puller. 1,684,018; Sept. 11.
Edwards, William, Altaville, Calif. Hammer handle. 1,683,878; Sept. 11.
Egli, Arnold A., Klein Guemmenen, assignor, by mesne assignments, to Chocolat Tobler Holding Co., Aktiengesellschaft, Schaffhausen, Switzerland. Line-by-line typewriting machine. 1,683,964; Sept. 11.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treating oils. 1,683,767; Sept. 11.
Egloff, Gustav, Chicago, Ill., and W. R. Howard, Washington, D. C., assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for cracking oil. 1,683,766; Sept. 11.
Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 76,292; Sept. 11.
Eickhoff, Theodore H., Cleveland Heights, Ohio, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Machine for forming reenforcement supports. 1,683,610; Sept. 11.
Eickmeyer, Earl E., assignor to The Dayton Pump & Mfg. Company, Dayton, Ohio. Gasoline pump. 1,684,130; Sept. 11.
Eisenberg, William, Evansville, Ind. Machine for forming helical channels. 1,684,310; Sept. 11.
Elder & Robinson. (See Cameron, Hugh M., assignor.)
Elevator Company of America. (See Rice, Joseph, assignor.)
Elevator Supplies Company. (See Shonnard, Harold W., assignor.)
Elger, Joseph C., Pittsfield, Mass. Aeroplane. 1,684,087; Sept. 11.
Elliott Core Drilling Company. (See Grainger, Reid B., assignor.)
Ellison Bronze Company. (See Ellison, Edward H., assignor.)
Ellison, Edward H., Jamestown, N. Y., assignor to Ellison Bronze Company, Inc., Falconer, N. Y. Ventilator. 1,683,820; Sept. 11.
Emmel, Karl, and H. Walbert, Mulheim-Ruhr, Germany; said Walbert assignor to said Emmel. Production of iron castings with a low carbon content. 1,683,714; Sept. 11.
Engineering Development Company. (See Johnsen, Elnor A., assignor.)
Engravers & Printers Machinery Company. (See Donovan, William J., assignor.)
Ensign Carburetor Company. (See Ensign, Roy F., assignor.)
Ensign, Roy F., South Pasadena, assignor to Ensign Carburetor Company, Los Angeles, Calif. Carburetor. 1,684,055; Sept. 11.
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,683,659; Sept. 11.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,683,660; Sept. 11.
Epright, Paul. (See De Bracht, Joseph, assignor.)

Erban, Richard, Vienna, Austria. Pressure device for friction gears, brakes, couplings, and the like. 1,683,715; Sept. 11.
Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Antenna for radiotelegraphy. 1,683,716; Sept. 11.
Etheredge, John H., assignor of one-half to L. A. Cage, Taft, Tex. Cotton chopper. 1,683,768; Sept. 11.
Evans, Joseph, Youngstown, Ohio. Dipping spoon. Des. 76,293; Sept. 11.
Evans, Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,684,056; Sept. 11.
Everitt, James A. (See Trimpe, Emmett H., assignor.)
Ewald, Wolfgang F., assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Loud speaker. 1,683,879; Sept. 11.
Eynon, Thomas M., Philadelphia, Pa. Operating means for liquid-level indicators. 1,683,769; Sept. 11.
Fairbairn Lawson Combe Barbour Limited. (See Moorhouse, Samuel, assignor.)
Fairbanks, E. and T., and Company. (See Hadley, Harlan A., assignor.)
Fairchild, Charles N., Milford, Conn., assignor to Fairchild Lock Corporation, New York, N. Y. Lock housing. 1,684,311; Sept. 11.
Fairchild Lock Corporation. (See Fairchild, Charles N., assignor.)
Falk Corporation, The. (See Banner, Otto A., assignor.)
Falk Corporation, The. (See Jury, Frank W., assignor.)
Fallon, John. (See Harr, F. D., and Fallon.)
Farley, Preston J., Califon, N. J. Spool. 1,684,019; Sept. 11.
Fayer, Charles. (See Wappler, F. H., Hultman, and Fayer.)
Fayer, Charles, Flushing, N. Y., assignor to Wappler Electric Company, Inc. Electrically-operated hair-curling machine. 1,683,717; Sept. 11.
Felding, William H., Pittsburgh, Pa., assignor to National Tube Company. Upsetting device. 1,683,661; Sept. 11.
Felton & Guilleaume Carlswerk Actien-Gesellschaft. (See Schürer, Eugen, assignor.)
Ferris, William S. (See Olson, Percy W., assignor.)
Fest, Herman P., San Diego, Calif. Holder for photographs, cards, plates, or similar articles. 1,683,880; Sept. 11.
Fetzer, Heinrich, Pforzheim, Germany. Earring with clamping bow. 1,684,348; Sept. 11.
Fick, Otto W. (See Kantor, J., Fick, and Traxel.)
Field, Burnham E. (See Franks, R., and Field.)
Findlay, Robert Manufacturing Company. (See Schwartz, Frederick, assignor.)
Fine, Lewis. (See Schenck, C., and Fine.)
Firth, James F., New York, N. Y. Gas-heated steam radiator. 1,684,371; Sept. 11.
Fischer, Albert C., Chicago, Ill. Expansion joint. 1,683,881; Sept. 11.
Fischer, Erich. (See Hoffa, E., and Fischer.)
Fischer, John J., Marion, Ind., and W. R. Payne, Denoya, Okla. Electrical insulator. 1,684,312; Sept. 11.
Fisher, John J., assignor of one-half to T. Wittemann, Milwaukee, Wis. Tensioning device for metal strings for musical instruments. 1,684,057; Sept. 11.
Fisher, Ralph D., and E. M. Reardon, Long Beach, Calif. Bridging plug. 1,684,266; Sept. 11.
Fisk Rubber Company, The. (See Hennessy, Daniel E., assignor.)
Fitzpatrick, John, Astoria, N. Y. Radiator inclosure. Des. 76,294; Sept. 11.
Flintkote Company, The. (See Cady, W. H., and Rahr, assignors.)
Foft, Veryl G., et al. (See White, William J., assignor.)
Fokker, Anthony H. G., Amsterdam, Netherlands, assignor to Atlantic Aircraft Corporation, Hasbrouck Heights, N. J. Tail shaft for aircraft. 1,683,965; Sept. 11.
Ford, Robert L., St. Louis, Mo. Toy pistol. 1,683,662; Sept. 11.
Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Range vent. 1,684,088; Sept. 11.
Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Waffle-iron heating element. 1,684,176; Sept. 11.
Förster, Frigyes, Budapest, Hungary. Portable building. 1,683,966; Sept. 11.
Foster, Walter, L., Whittier, Calif. Line control. 1,684,367; Sept. 11.
Foster, Wolcott C., Rutherford, N. J., and A. S. Garrett, Drexel Hill, Pa. Increasing the efficiency of zeolites in the treatment of water. 1,683,967; Sept. 11.
Franklin Development Corporation. (See Murphy, Ralph, assignor.)
Franks, Russell, Elmhurst, and B. E. Field, Douglaston, N. Y., assignors to Haynes Stellite Company. Alloy. 1,684,131; Sept. 11.
Frederick Engineering Company, The. (See Raun, Peter H., assignor.)
Frederick Iron & Steel Company, The. (See Riddell, William A., assignor.)
French, Robert G., Oak Park, assignor to W. O. Belt, Chicago, Ill. Combined radiophone and phonograph. Re17,081; Sept. 11.
Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Latch. 1,684,217; Sept. 11.
Fried. Krupp Aktiengesellschaft. (See Herrmann, Heinrich, assignor.)
Friedrich, Fritz R., New York, N. Y. Typewriter construction. 1,683,770; Sept. 11.
Frisk, John A., Chicago, Ill. Cream separator. 1,683,882; Sept. 11.
Gallon Iron Works & Mfg. Co., The. (See Arndt, Franklin E., assignor.)
Gallagher, Arthur D., assignor to Oliver Chilled Plow Works, South, Bend, Ind. Cultivator. 1,684,218; Sept. 11.
Gallison, Ernest A., Watertown, assignor to Bay State Fishing Company, Boston, Mass. Machine for removing scales from fish. 1,683,968; Sept. 11.
Gammeter, Harry C., Cleveland Heights, Ohio. Sign. Des. 76,295; Sept. 11.
Gangler, Paul, Esslingen, Germany, assignor to the firm: Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Stuttgart-Cannstatt, Germany. Closing bag. 1,683,771; Sept. 11.
Gardner, John E. (See Bellamy, J. I., and Gardner.)
Garlock, Edward A., Baltimore, Md. Machine for pasting battery grids. 1,683,969; Sept. 11.
Garner, Ernest P., Charlotte, N. C. Window screen. 1,684,349; Sept. 11.
Garrett, Arthur S. (See Foster, W. C., and Garrett.)
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Tool retainer. 1,684,177; Sept. 11.
Gebhart Folding Box Company, The. (See Gebhart, Louis H., assignor.)
Gebhart, Louis H., assignor to The Gebhart Folding Box Company, Dayton, Ohio. Box blank or similar article. Des. 76,296; Sept. 11.
Gegenheimer, William, Baldwin, N. Y. Paper-feeding means for printing presses. 1,683,718; Sept. 11.
General Electric Company. (See Bergman, Sven R., assignor.)
General Electric Company. (See Bliss, Elmer F., assignor.)
General Electric Company. (See Boelter, R., and Bartz, assignors.)
General Electric Company. (See Brown, H. W., and Bailey, assignors.)
General Electric Company. (See Brown, William W., assignor.)
General Electric Company. (See Clinker, Reginald C., assignor.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Hamilton, William S. H., assignor.)
General Electric Company. (See Hays, David, assignor.)
General Electric Company. (See Hewlett, E. M., and Willard, assignors.)
General Electric Company. (See Kjolseth, Ole K., assignor.)
General Electric Company. (See Love, Joseph E., assignor.)
General Electric Company. (See Macmillan, Campbell, assignor.)
General Electric Company. (See Mittag, Albert H., assignor.)
General Electric Company. (See Nixdorff, Samuel P., assignor.)
General Electric Company. (See Pratt, W. H., and Price, assignors.)
General Electric Company. (See Rich, Theodore A., assignor.)
General Electric Company. (See Ruete, William T., assignor.)
General Electric Company. (See Schiebeler, Carl, assignor.)
General Electric Company. (See Stevenson, Alexander R., jr., assignor.)
General Electric Company. (See Whitaker, Frank P., assignor.)
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Ewald, Wolfgang F., assignor.)
Gesellschaft für Drahtlose Telegraphie m. b. Hallesches. (See Kummenich, Richard, assignor.)
Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Arco, Georg, assignor.)
Geyer, Bertram B., Oakwood, Ohio. Display stand. Des. 76,297; Sept. 11.
Geyer, John, and J. Switzer, Michigan City, Ind. Direction-indicating switch mechanism. 1,683,970; Sept. 11.
Gibb Welding Machines Company. (See Brueckner, J. R., and Clark, assignors.)
Gibson, Hugo C., Philadelphia, Pa. Resilient wheel. 1,684,219; Sept. 11.
Gibson, John L., Brooklyn, N. Y. Check valve. 1,684,220; Sept. 11.
Gibson, William L., Camden, N. J. Device for handling containers. 1,683,772; Sept. 11.
Gidley, Columbus M. (See Taylor, W. A., and Gidley.)
Gilbert, William H., et al. (See White, William J., assignor.)
Gleason Works. (See Candee, A. H., and Wildhaber, assignors.)
Goheen, Clarence E., South Bend, Ind. Automobile signal. 1,683,663; Sept. 11.
Goldman, Alvin D. (See Methudy, Eugene R., assignor.)

Goldsmith, Alfred N., Mount Vernon, N. Y., assignor to Radio Corporation of America. Antenna. 1,683,773; Sept. 11.

Gooding, Arthur T., London, England. Combined baby's high chair and cot. 1,684,058; Sept. 11.

Goodyear Tire & Rubber Company, The. (See Carson, Clarence M., assignor.)

Goodyear Tire & Rubber Company, The. (See Haase, Jorgen I., assignor.)

Goodyear Tire & Rubber Company, The. (See Maas, Elov F., assignor.)

Goodyear Tire & Rubber Company, The. (See Snyder, Robert W., assignor.)

Gordon, Henry R. See Wiegner, S. P., Davidson, and Gordon.)

Gougnard, Henri, assignor to Société Belge des Produits Rationnels, Societe Anonyme, Ahin-lez-Huy, Belgium. Respiration gymnastic apparatus. 1,684,221; Sept. 11.

Gouty, Clarence A., Bushnell, Ill. Trolley. 1,684,178; Sept. 11.

Grabelsky, Abraham, Bronx, N. Y. Combined fountain pen and watchcase. Des. 76,298; Sept. 11.

Graham, Albert R., Toronto, Ontario, Canada. Combined cigarette box and match container. 1,683,664; Sept. 11.

Graham, Ronald V., Yonkers, N. Y. Measuring and dispensing device. 1,684,313; Sept. 11.

Grainger, Reid B., Redondo Beach, Calif., assignor to Elliott Core Drilling Company. Coring device. 1,684,089; Sept. 11.

Grasselli Dyestuff Corporation. (See Herz, R., and Zerweck, assignors.)

Grasselli Dyestuff Corporation. (See Hoffa, E., and Fischer, assignors.)

Grasselli Dyestuff Corporation. (See Mieg, W., and Job, assignors.)

Grasselli Dyestuff Corporation. (See Siebert, O., Thiess, Schöner, Schmidlin, Benade, and Diecke, assignors.)

Grasselli Dyestuff Corporation. (See Thiess, K., Deicke, and Schmidlin, assignors.)

Gray, James L., Port Arthur, assignor of one-fourth to E. Bruce, Goose Creek, Tex. Pressure and vacuum relief valve. 1,684,377; Sept. 11.

Greene, John S., Rochester, N. Y., assignor to Photostat Corporation. Photographic-print-drying apparatus. 1,683,883; Sept. 11.

Greenfield, William H., Seattle, Wash. Miter jack and coping cutter. 1,684,090; Sept. 11.

Griffith, Stanley E., Olean, N. Y. Vehicle brake. 1,683,665; Sept. 11.

Griffiths, William U., Philadelphia, Pa. Flush-control means for water-closet hoppers. 1,683,884; Sept. 11.

Griswold, Albert A., Providence, R. I. Roll roofing. 1,684,179; Sept. 11.

Grossman, Samuel, assignor to D. Klebanoff and S. Grossman, copartners trading under the firm name and style of Klebanoff and Grossman, New York, N. Y. Finger ring. Des. 76,229; Sept. 11.

Grossman, Samuel, et al. (See Grossman, Samuel, assignor.)

Gstyr, Joseph. (See Wildhaber, E., and Gstyr.)

Guerin, Louis H. (See Miotin, F. S., and Guerin.)

Guerlain Perfumery Corporation. (See d'Escayrac, Bernard, assignor.)

Guernsey, Charles O., Philadelphia, Pa. Driving mechanism for vehicles. 1,684,314; Sept. 11.

Gunn, Charles H., San Francisco, Calif. Resilient automobile seat. 1,683,885; Sept. 11.

Gunn, Gilbert, Pollokshaws, Scotland. Preserving wood and wood preservative. 1,684,222; Sept. 11.

Gurney, Erving R. (See Masury, A. F., and Gurney.)

Guyer, Elsie. (See Ross, James G., assignor.)

Haase, Jorgen I., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Printing machine. 1,683,744; Sept. 11.

Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welt-attaching mechanism. 1,683,666; Sept. 11.

Hadfield, Robert A., Westminster, England. Manufacture of steel. 1,683,886; Sept. 11.

Hadley, Harlan A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale casing. Des. 76,300; Sept. 11.

Hadley, Idale. (See Tavender, Walter K., assignor.)

Hager, Eugen, Oerlikon, near Zurich, Switzerland. Baking and roasting appliance. 1,683,611; Sept. 11.

Hahn, Johann, Cleveland, Ohio. Bloom shears. Re17,079; Sept. 11.

Haik, Louis W., Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y. Box. 1,684,091; Sept. 11.

Hall, Frank A. (See Thomson, Archibald, assignor.)

Hallenbeck, George E., assignor, by mesne assignments, to Baker Brothers, Toledo, Ohio. Multiple-tool drill 1,683,667; Sept. 11.

Haller, Arnold, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electric control apparatus. 1,684,315; Sept. 11.

Hallowell, Clifton C., Drexel Hill, Pa., assignor to The S. S. White Dental Manufacturing Company. Artificial tooth. 1,683,613; Sept. 11.

Hallowell, Clifton C., Drexel Hill, Pa., assignor to The S. S. White Dental Manufacturing Company. Artificial tooth. 1,683,614; Sept. 11.

Hallowell, Louis S., Kansas City, Mo., assignor to The Prosperity Company Inc., Syracuse, N. Y. Ironing machine. 1,683,612; Sept. 11.

Hamill, William W., Birmingham, England. Fluid-flow meter. 1,684,316; Sept. 11.

Hamill, William W., Birmingham, England. Rotary-type flow meter. 1,684,350; Sept. 11.

Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. Motor controller. 1,684,267; Sept. 11.

Hanak, Edward, Houston, Tex. Traveling conveyer tray. 1,684,092; Sept. 11.

Hansen, Carl, Esbjerg, and P. Leth, Copenhagen, Denmark; said Leth assignor to said Hansen. Vane for fishery. 1,683,668; Sept. 11.

Hansen, Gustav, Victoria, British Columbia, Canada. Ship rat guard. 1,683,615; Sept. 11.

Hansen, Victor E., et al. (See Crown, William F., assignor.)

Hardsocg, Lester C., assignor to Hardsocg Manufacturing Company, Ottumwa, Iowa. Drill boxing. 1,684,351; Sept. 11.

Hardsocg Manufacturing Company. (See Hardsocg, Lester C., assignor.)

Harmouth, Gust, Yale, Okla. Coin card. 1,683,971; Sept. 11.

Harms, Johannes F. K., Amsterdam, assignor to Jonkheer Meester Doctor Jelle Roelof Clifford Kocq van Breugel, Driebergen, Netherlands. Arc welding system. 1,684,317; Apr. 11.

Harr, Forest D., Boulder, and J. Fallon, Fort Collins, Colo.; said Harr assignor to G. O. Ritcheson, Pendleton, Oreg. Wire-splicing-sleeve wrench. 1,683,887; Sept. 11.

Harralson, Edward, Washington, D. C. Machine for dispensing paper towels. 1,683,719; Sept. 11.

Harris, Carl C., Orange, Mass. Stamp box. 1,684,318; Sept. 11.

Harris, Joseph D., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Radiator core. 1,683,821; Sept. 11.

Harris, Louis, Birmingham, Ala. Mail box. Des. 76,301; Sept. 11.

Harrison, Charles D., and P. D. Lindsey, Hominy, Okla. Receptacle closure. 1,683,888; Sept. 11.

Harshbarger, Lincoln E. (See Smith, James O., assignor.)

Hart, William E., San Jose, Calif. Automobile bumper. 1,684,093; Sept. 11.

Hartford-Empire Company. (See Howard, George E., assignor.)

Hartford-Empire Company. (See Miller, William J., assignor.)

Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism. 1,683,822; Sept. 11.

Hatmaker, James R., Paris, France. Ice cream and making same. 1,684,094; Sept. 11.

Hawley, Charles G., Chicago, Ill. Steepled radiant-heat steam boiler. 1,683,972; Sept. 11.

Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Centrifugal fixture. 1,684,020; Sept. 11.

Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Separator. 1,684,021; Sept. 11.

Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Receiver separator. 1,684,022; Sept. 11.

Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Automobile air cleaner. 1,684,023; Sept. 11.

Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Steam purifier. 1,684,024; Sept. 11.

Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Line filter. 1,684,025; Sept. 11.

Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Roof ventilator. 1,684,026; Sept. 11.

Hayne, William G., Brooklyn, N. Y. Food container and heater. 1,683,889; Sept. 11.

Haynes Stellite Company. (See Franks, R., and Field, assignors.)

Hays, David, Bridgeport, Conn., assignor to General Electric Company. Incandescent-lamp socket. 1,684,268; Sept. 11.

Heaton, Herman C., Chicago, Ill. Dumping vehicle. 1,684,095; Sept. 11.

Hebner, George J., Rochester, N. Y. Fastening device for ladders. 1,684,269; Sept. 11.

Heichert, Herman S., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Leer construction. 1,683,973; Sept. 11.

Heiden, Simon, Detroit, Mich. Locomotive-tender-tank feeder. 1,684,319; Sept. 11.

Heil Co., The. (See Heil, Julius P., assignor.)

Heil, Julius P., assignor to The Heil Co., Milwaukee, Wis. Manhole cover. 1,683,823; Sept. 11.

Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding apparatus. 1,683,974; Sept. 11.

Heintz Manufacturing Company. (See D'Ardenne, W. H., Landis, and Christensen, assignors.)

Heitmiller, Herbert W., Seattle, Wash. Trolling spoon. 1,683,890; Sept. 11.

Henderson, Albert E., Toronto, Ontario, Canada. Manufacturing tire tubes. 1,683,669; Sept. 11.

Henderson, Ralph I., Charleston, W. Va. Tool. 1,683,775; Sept. 11.

Hennessy, Daniel E., Akron, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Fabric handling. 1,683,777; Sept. 11.

Hennessy, James J., New York, N. Y. Lubricator distributor. 1,683,616; Sept. 11.

Hennessy, James J., New York, N. Y. Pump for lubricators or the like. 1,683,617; Sept. 11.

Henny, Arnold L., Portland, Oreg. Oil reclaimer. 1,684,270; Sept. 11.

Henry, Mack B., and A. L. Cadenhead, Norphlet, Ark. Belt fastener. 1,684,271; Sept. 11.

Henselman, Otto, Canton, Ohio. Antifriction bearing. 1,684,352; Sept. 11.

Hermsdorf, Ewald, Brunswick, Germany. Apparatus for feeding powdered fuel to a furnace. 1,684,320; Sept. 11.

Herrmann, Heinrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Rhur, Germany. Power-driven vehicle. 1,683,776; Sept. 11.

Herz, Richard, Frankfort-on-the-Main, and W. Zerweck, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dinaphthyl-Dicarboxylic acid and making same. 1,684,272; Sept. 11.

Hess, Francis M., Chicago, Ill. Distillate distributor for hydrocarbon distillation systems. 1,683,778; Sept. 11.

Hesser, Fr., Maschinenfabrik-Aktiengesellschaft. (See Gangler, Paul, assignor.)

Hewlett, Edward M., and W. W. Willard, Schenectady, N. Y., assignors to General Electric Company. Reproducing position. 1,684,132; Sept. 11.

Hickok Manufacturing Company. (See Eichner, Robert F., assignor.)

Hicks, William W. (See Mooney, H. V., and Hicks.)

Higgins, Eric B., Brentford, assignor of one-half to British Synthetics Limited, Manchester, England. Manufacture of chlorides of aromatic ortho-hydroxy-carboxylic acids. 1,684,273; Sept. 11.

Hill, Leland H., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Tank structure. 1,684,059; Sept. 11.

Hill, Nikolai, Melien, Wis. Railway tie. 1,683,824; Sept. 11.

Hinckley-Myers Company. (See Holton, George E., assignor.)

Hinds, Sherwood, assignor to St. Louis Pump & Equipment Company, St. Louis, Mo. Rotary pump. 1,684,274; Sept. 11.

Hinman, Laura B., Syracuse, N. Y. Screen for windows of automobiles. 1,684,027; Sept. 11.

Hodell, Frederick G., assignor to The Chain Products Company, Cleveland, Ohio. Cabinet. 1,683,891; Sept. 11.

Hoeftman, Charles M. (See Mylius, W. G., and Hoeftman.)

Hufbuchdruckerei Von C. Dunnhaupt G. m. b. H. (See Lingner, Carl, assignor.)

Hoffa, Erwin, and E. Fischer, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Azo dye and preparing the same. 1,684,275; Sept. 11.

Hoffman, Arthur L., Pittsburgh, Pa. Brush. 1,683,618; Sept. 11.

Hole, Sidney, Albourne, Hassocks, England. Coding and decoding apparatus and code-changing device therefor. 1,684,028; Sept. 11.

Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Replenishing electrolytic cells. 1,684,276; Sept. 11.

Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-reenforcing handle. 1,684,277; Sept. 11.

Holophane Company. (See Berry, Percy W., assignor.)

Holophane Company. (See Dorey, W. A., and Ingler, assignors.)

Holton, George E., assignor to Hinckley-Myers Company, Jackson, Mich. Piston and connecting rod testing and aligning machine. 1,684,321; Sept. 11.

Honey, George, Canuck, Saskatchewan, Canada. Belt-lacing tool. 1,683,825; Sept. 11.

Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Lifting jack. 1,684,180; Sept. 11.

Hopkins, Arthur C., assignor to National-Standard Company, Niles, Mich. Lifting jack. 1,684,181; Sept. 11.

Hopkins, Edwin, New York, N. Y. Phonodyne. 1,684,129; Sept. 11.

Hopkinson, Joseph, assignor to Dayton Scale Company, Dayton, Ohio. Meat clamp. 1,684,223; Sept. 11.

Horn, Henry S., South Orange, assignor to W. C. Horn, Bro. & Co., Newark, N. J. Loose-leaf binder. 1,683,975; Sept. 11.

Horn, W. C., Bro. & Co. (See Horn, Henry S., assignor.)

Horne, Archibald B., Springfield, Mass. Golf club. 1,684,278; Sept. 11.

Horstkotte, Frederick W., Portland, Oreg. Unloading machine. 1,683,779; Sept. 11.

Horton, Robert T., Greenwood, Ind. Firing door. 1,683,892; Sept. 11.

Hosoi, Isamu, Tochigi-ken, assignor of one-half to K. Takei, Tokyo, Japan. Phonograph. 1,683,670; Sept. 11.

Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for polishing glass. 1,684,029; Sept. 11.

Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for forming plate glass. 1,684,030; Sept. 11.

Howard, Karl S., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive structure. 1,683,671; Sept. 11.

Howard, Karl S., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive structure. 1,683,672; Sept. 11.

Howard, Karl S., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive structure. 1,683,673; Sept. 11.

Howard, Karl S., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive structure. 1,683,674; Sept. 11.

Howard, William R. (See Egloff, G., and Howard.)

Howden, Walter E., Edwardsville, Ill. Adjustable drafting instrument. 1,684,224; Sept. 11.

Howe-Anderson Company. (See Howe, Bartlett G., assignor.)

Howe, Bartlett G., assignor to Howe-Anderson Company, Galesburg, Ill. Bread-basket rack. 1,683,675; Sept. 11.

Howe, Thomas. (See Peteler, Adolph, assignor.)

Hubbard, Robert L., New York, N. Y. Ash tray. Des. 76,302; Sept. 11.

Hubble, Grover C., Bonners Ferry, Idaho. Automatic voltage control. 1,684,182; Sept. 11.

Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Treating residual oils. 1,683,826; Sept. 11.

Hughes, James W., Philadelphia, Pa. Cap nut. 1,684,096; Sept. 11.

Hülsmeyer, Christian, Dusseldorf, Germany. Method of and apparatus for purifying water. 1,683,780; Sept. 11.

Hultman, George H. (See Wappler, F. H., Hultman, and Fayer.)

Humphrey, Herbert S., assignor to Ruud Manufacturing Company, Kalamazoo, Mich. Combined drain cock and relief valve. 1,684,097; Sept. 11.

Humphrey, Vonnie D., Bishopville, S. C. Insect guard for furniture. 1,684,279; Sept. 11.

Hynes, Lee P., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Valve engine for steam heating. 1,684,225; Sept. 11.

Iceless Automatic Refrigerator Company. (See Otto, Stuart, assignor.)

Ile, William, Little Falls, N. J., assignor to Ilelte Electric Manufacturing Corporation, Tuckahoe, N. Y. Electric plug. 1,684,183; Sept. 11.

Ilelte Electric Manufacturing Company. (See Ile, William, assignor.)

Independent Pneumatic Tool Company. (See Levedahl, Axel, assignor.)

Industrial Research Corporation. (See Brockway, Carl P., assignor.)

Ingler, William A. (See Dorey, W. A., and Ingler.)

Ingram, Harold E., Burlingame, Calif. Analysis chart. 1,683,827; Sept. 11.

Ingram, Oscar L., Walla Walla, Wash. Air-supply system. 1,684,031; Sept. 11.

International Combustion Engineering Corporation. (See Reed, Carl S., assignor.)

International Motor Company. (See Josephs, Lyman C., jr., assignor.)

International Motor Company. (See Masury, A. F., and Gurney, assignors.)

Intertype Corporation. (See Norwood, Joseph C., assignor.)

Ireland, George B., assignor to Taylor Instrument Companies, Rochester, N. Y. Recording pen. 1,683,828; Sept. 11.

Irgens, Finn T., assignor to Lockwood Ash Motor Co., Jackson, Mich. Outboard motor. 1,683,893; Sept. 11.

Itjen, Martin, Skagway, Alaska. Snap hook. 1,684,322; Sept. 11.

Ives, Herbert E., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Reproducing pictures transmitted electrically. 1,683,894; Sept. 11.

Ives, Herbert E., Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Transmission of pictures by electricity. 1,683,976; Sept. 11.

Iwwerks, Eert U., Kansas City, Mo. Sound-reproducing mechanism. 1,684,098; Sept. 11.

Jacob, Alfred P., New York, N. Y. Drawing-board attachment. 1,684,353; Sept. 11.

Jacob, George F., Evanston, Ill. Automobile lamp. 1,683,895; Sept. 11.

Jacob, George F., Evanston, Ill. Headlamp for motor vehicles. 1,683,896; Sept. 11.

Jacob, William G. R. (See Smith, W. S., McLachlan, and Jacob.)

James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic switch. 1,684,060; Sept. 11.

Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 76,303; Sept. 11.

Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 76,304; Sept. 11.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 76,305; Sept. 11.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 76,306; Sept. 11.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 76,307; Sept. 11.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 76,308; Sept. 11.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 76,309; Sept. 11.
Jessop, George A., assignor to S. Morgan Smith Company, York, Pa. Plate-steel wicket gate for turbines. 1,683,781; Sept. 11.
Job, Albert. (See Mieg, W., and Job.)
Johnson, Charles A., La Tuque, Quebec, Canada, assignor to Brown Company, Berlin, N. H. Method and apparatus for washing pulp. 1,683,782; Sept. 11.
Johnson, David C., Carbon Hill, Ala. Wheel puller. 1,684,226; Sept. 11.
Johnson, Einar A., Mountain Lakes, N. J., assignor to Engineering Development Company, New Brunswick, N. J. Condenser. 1,684,227; Sept. 11.
Johnson, George T. (See Whitridge, J. C., and Johnson.)
Johnson, George W., assignor to The American Laundry Machinery Company, Norwood, Ohio. Pressing machine. 1,683,897; Sept. 11.
Johnson, James T. (See Boyd, E. L., and Johnson.)
Johnson, Leonard W., Batavia, Ill. Flue cleaner. 1,683,619; Sept. 11.
Johnson, William C., Providence, R. I. Tensioning device for braiding machines. 1,683,898; Sept. 11.
Jones, Don F., Beloit, Wis. Electric switch. 1,684,280; Sept. 11.
Jonkheer Meester Doctor Jelle Roelof Clifford Kocq Van Breugel. (See Harms, Johannes F. K., assignor.)
Joron, Rodolphe E., Chicoutimi, Quebec, Canada. Alarm system. 1,684,032; Sept. 11.
Josephs, Lyman C., jr., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Control means for throttle valves and the like. 1,684,033; Sept. 11.
Jungk, Herbert G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. 1,683,676; Sept. 11.
Junior Monarch Hay Press Company. (See Toffelmier, L. J., and Miller, assignors.)
Junoform Company, The. (See Smith, Goodwin B., assignor.)
Jury, Frank W., assignor to The Falk Corporation, Milwaukee, Wis. Gear-cutting machine. 1,684,099; Sept. 11.
Kadel, Byers W., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Draft rigging. 1,683,899; Sept. 11.
Kalayjian, Jacob, Pasadena, Calif. Ironing board. 1,684,034; Sept. 11.
Kane, Thomas H., assignor to Truscon Steel Company, Youngstown, Ohio. Spacer for concrete reenforcement. 1,683,829; Sept. 11.
Kantor, James, O. W. Fick, and W. J. Traxel, assignors to Liquid Carbonic Co., Chicago, Ill. Filling mechanism. 1,683,677; Sept. 11.
Karollus, Edmund, Vienna, Austria. Safety device for blasting or explosive cartridges. 1,683,900; Sept. 11.
Kauffman, Harold L. (See Kauffman, H. L., and Clark, assignors.)
Kauffman, Harold L., and I. A. Clark, Parco, Wyo., assignors, by mesne assignments, to H. L. Kauffman, Decolorizing, clarifying, and purifying petroleum oils. 1,684,035; Sept. 11.
Kaufmann, John, assignor to De Forest Phonofilm Corporation, New York, N. Y. Slotting and slitted light transmitter. 1,683,620; Sept. 11.
Kaufmann, John, assignor to De Forest Phonofilm Corporation, New York, N. Y. Fine-slit construction. 1,683,621; Sept. 11.
Keiner, Henry A., Kew Gardens, N. Y. Protective device. 1,683,977; Sept. 11.
Keller, Paul E. (See Daun, C. L., and Keller.)
Keller, Paul E., assignor, by mesne assignments, to American Electric Motor Company, Milwaukee, Wis. Motor support. 1,683,622; Sept. 11.
Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)
Kelloway, Charles J., Wilmington, N. C. Combined lightning arrester and resistance unit. 1,683,783; Sept. 11.
Kelly, William D., Western Springs, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Temperature regulator for electric heaters. 1,684,281; Sept. 11.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling mechanism. 1,683,901; Sept. 11.
Kennedy, Howard L., assignor to Kennedy Manufacturing Company, Van Wert, Ohio. Cantilever kit. 1,684,036; Sept. 11.
Kennedy Manufacturing Company. (See Kennedy, Howard L., assignor.)
Keystone Lantern Company. (See Davis, Nathan H., assignor.)
Kliesig, Harry R., San Diego, Calif. Poppet-valve self-correcting means. 1,683,902; Sept. 11.
Kindervater, Julius, New York, N. Y. Steam-engine-valve reversing gear. 1,684,228; Sept. 11.
King, William R., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Making heater units. 1,684,184; Sept. 11.
Kinsley, Richard F., assignor to Dryden Rubber Company, Chicago, Ill. Manufacturing rubber articles. 1,684,100; Sept. 11.
Kirschberg, Sigmund, San Francisco, Calif. Adjustable awning fixture. 1,683,903; Sept. 11.
Kitterman, Willie B., and F. H. Mills, New York, N. Y. Utility bag. 1,683,678; Sept. 11.
Kittredge, John W., Akron, Ohio. Hoisting block. 1,684,185; Sept. 11.
Kjolseth, Ole K., Scotia, N. Y., assignor to General Electric Company. Railway truck. 1,684,282; Sept. 11.
Klebanoff and Grossman. (See Grossman, Samuel.)
Klebanoff, David, et al. (See Grossman, Samuel, assignor.)
Kneass, Strickland L., and I. P. Pedrick, assignors to William Sellers & Company, Incorporated, Philadelphia, Pa. Injector. 1,683,784; Sept. 11.
Knoblock, Phillip J., Passaic, N. J. Suspension-chain coupling. 1,683,904; Sept. 11.
Knott, Emmet K. (See Edblom, L. A., and Knott.)
Knowlton, Eugene W., assignor to John E. Smith's Sons Co., Buffalo, N. Y. Meat and food grinder. 1,683,679; Sept. 11.
Kny-Scheerer Corporation of America, The. (See Akers, Herbert S., assignor.)
Koenigsberger, Johann, Freiburg, Germany. Measuring instrument. 1,684,229; Sept. 11.
Kohn, Milton M., New York, N. Y. Apparatus for producing dentures. 1,683,978; Sept. 11.
Kokes, L. V., et al. (See Criner, Harry J., assignor.)
Krass, Mitchell. (See Krasiavsky, Michel.)
Krasiavsky, Michel, New York, N. Y., now by change of name Mitchell Krass. Motion-picture film. 1,683,830; Sept. 11.
Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Chandelier or article of analogous nature. Des. 76,310; Sept. 11.
Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Wall bracket or article of analogous nature. Des. 76,311; Sept. 11.
Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Lantern or article of analogous nature. Des. 76,312; Sept. 11.
Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Chandelier body or article of analogous nature. Des. 76,313; Sept. 11.
Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Combined candle cup and bobèche. Des. 76,314; Sept. 11.
Kreisel, Paul, Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,684,061; Sept. 11.
Krobitzsch, Robert W., assignor to Sunset Feather Company, San Francisco, Calif. Feather-cleaning machine. 1,683,905; Sept. 11.
Kubelka, Jerry, Ridgewood, N. Y. Weatherproof concealed hinge and jamb construction. 1,684,323; Sept. 11.
Kummenich, Richard, Berlin, Germany, assignor to Gesellschaft fur Drahtlose Telegraphie m. b. Hallesches, Berlin, Germany. Voltage regulator. 1,683,785; Sept. 11.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and card-perforating machine. 1,683,979; Sept. 11.
Kwartin, Bernard, Philadelphia, Pa. Combined safety razor, hair trimmer, and comb. 1,683,980; Sept. 11.
Kysor, Walter A., Allegan, Mich. Combined muffler and heater. 1,684,186; Sept. 11.
Lach, Joseph S., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Securing or clamping means for lock cylinders. 1,684,230; Sept. 11.
La Chapelle, Fred M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating machine. 1,683,680; Sept. 11.
Laessig, William. (See Saal, Christian L., assignor.)
Lahti, Wilho E., Windsor, Calif. Music-leaf turner. 1,684,283; Sept. 11.
Landis, J. Olin. (See D'Ardenne, W. H., Landis, and Christensen.)
Lane, Munson H. (See Rushton, Arthur L., assignor.)
Larson, Hilda M., Tacoma, Wash. Reproducer. 1,684,133; Sept. 11.
Larsonneur, David L. A., Chicago, Ill. Governor for internal-combustion engines. 1,683,720; Sept. 11.
Lavell, Lulu V., Minneapolis, Minn. Curtain holdback. Des. 76,315; Sept. 11.
Lawson, Edward W., West Palm Beach, Fla. Weather vane. Des. 76,316; Sept. 11.
Lawson, Joseph, Great St. Helens, London, assignor to Asiatic Petroleum Company, Limited, St. Helen Court, London, England. Indicating mechanism. 1,684,101; Sept. 11.
Leach, Sagito J., and A. C. Eberle, assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Back for automobile seats and the like. 1,684,062; Sept. 11.
Lease, Art A. (See Wright, L. B., Yates, and Lease.)

Leeds & Northrup Company. (See Schofield, William R., jr., assignor.)
Leedy, Elmer E., Newark, Ohio. Wire reel. 1,684,037; Sept. 11.
Leibowitz, Meyer N., et al. (See Ruttenberg, Samuel, assignor.)
Le Mesurier, Charles, Campbellton, New Brunswick, Canada. Storm-window fastener. 1,684,184; Sept. 11.
Leth, Paul. (See Hansen, C., and Leth.)
Leustig, Benno B., and J. D. Petsche, Cleveland, Ohio. Wire-drawing apparatus. 1,684,102; Sept. 11.
Levedahl, Axel, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill. Stud driver. 1,684,231; Sept. 11.
Levit, Max, Shenandoah, Pa. Shoe and locker bag. 1,684,232; Sept. 11.
Levy, Lucien, Paris, France. Elimination of wireless parasitic currents. 1,684,103; Sept. 11.
Lewis, Harry A., Norristown, Pa. Differential release transmission. 1,684,233; Sept. 11.
Liebergeld, Paul, Bad Thal, Germany. Mechanical time fuse with clockwork. 1,684,354; Sept. 11.
Lightship Cloth Board Corporation. (See Smith, Harry B., assignor.)
Lilienfeld, Leon, Vienna, Austria. Making cellulose ethers and alkali cellulose. 1,683,681; Sept. 11.
Lilienfeld, Leon, Vienna, Austria. Preparation of alkali cellulose and cellulose ethers. 1,683,682; Sept. 11.
Lilienfeld, Leon, Vienna, Austria. Cellulose ether and making same. 1,683,831; Sept. 11.
Lindgren, Stanley H., Maywood, Ill., assignor to American Can Company, New York, N. Y. Dredge can. 1,683,832; Sept. 11.
Lindsey, Parren D. (See Harrison, C. D., and Lindsey.)
Lingner, Carl, Dessau in Anhalt, assignor to Hofbuchdruckerei Von C. Dunnbaupt G. m. b. H., Dessau, Germany. Register sheet for printing presses and the like. 1,684,324; Sept. 11.
Lloud, Frank, St. Etienne, France. Carburetor. 1,684,355; Sept. 11.
Lipps, Morris, New York, N. Y. Spring-cushion construction. 1,684,234; Sept. 11.
Lipscomb, James H., Bokchito, Okla. Knockdown coop. 1,684,135; Sept. 11.
Liquid Carbonic Co. (See Kantor, J., Fick, and Traxel, assignors.)
Lister, James F., and H. W. Smallwood, Birmingham, England. Automatically-oscillating electric fan. 1,684,325; Sept. 11.
Livergood, Gerald R., Houston, assignor of one-fourth to W. L. Pearson, Harris County, Tex. Detachable pilot for pump plungers. 1,683,683; Sept. 11.
Lockwood Ash Motor Co. (See Irgens, Finn T., assignor.)
Locomotive Stoker Company. (See Crawford, David F., assignor.)
Loening, Grover, New York, N. Y. Construction for airplane floats. 1,684,187; Sept. 11.
Long, Charles T., Eureka, Calif. Coffee-making device. 1,683,786; Sept. 11.
Long, Clyde R., Smethport, Pa. Golf-ball marker. 1,684,038; Sept. 11.
Love, Joseph E., Schenectady, N. Y., assignor to General Electric Company. Automatic antenna regulator. 1,684,235; Sept. 11.
Lovegrove, Clara S. (See Lovegrove, Thomas G., assignor.)
Lovegrove, Thomas G., assignor to C. S. Lovegrove, Philadelphia, Pa. Magnetic sharpener for razor blades. 1,683,981; Sept. 11.
Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Dorr, Wilhelm E., assignor.)
Lundberg, Everett E., assignor to Briggs Manufacturing Company, Detroit, Mich. Adjustable striker plate. Re17,083; Sept. 11.
Lynch, James A., Los Angeles, Calif. Tie lug. 1,684,136; Sept. 11.
Maas, Elov F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for unwrapping tubes. 1,683,787; Sept. 11.
MacGregor, R. L. (See Vaile, Pembroke A., assignor.)
MacInerney, James L., Grand Rapids, Mich. Spring mat for upholstered articles. 1,683,684; Sept. 11.
MacInerney, James L., Grand Rapids, Mich. Spring mat for upholstered articles. 1,683,685; Sept. 11.
Mackie, George O., J. S., and J. C., Winnipeg, Manitoba, Canada. Combination luggage carrier, table, and bench. 1,684,039; Sept. 11.
Mackie, James C. (See Mackie, George O., J. S., and J. C.)
Mackie, John S. (See Mackie, George O., J. S., and J. C.)
MacMillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. System of electric ship propulsion. 1,684,236; Sept. 11.
Madison, Harry, Council Bluffs, Iowa. Bath-curtain support. 1,684,284; Sept. 11.
Maennlein, Max, Vienna, Austria. Metallic playing card. 1,684,372; Sept. 11.
Mahoney, Patrick J., Sharon, Pa. Wire-drawing mechanism. 1,683,906; Sept. 11.
Maneschi, Egidio E., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for determining the energy losses in dielectric materials. 1,683,833; Sept. 11.
Manley, Ralph B., Newark, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive paper or cloth. 1,683,623; Sept. 11.
Mann, John E., Snohomish, Wash. Indicating device. 1,683,907; Sept. 11.
Mann, Zolectus T., Caviness, Tex. Weevil destroyer. 1,684,040; Sept. 11.
Marathon Paper Mills Company. (See Merrin, Samuel A., assignor.)
Marbury, Harbert B., Atlanta, Ga. Tent. 1,684,237; Sept. 11.
Marsh, Jas. P., & Company. (See Thompson, Orville W., assignor.)
Marshall Field & Company. (See Nelson, Daniel, assignor.)
Martin, Perry S., Harrisonburg, Va. Thermostat. 1,683,908; Sept. 11.
Martinson, Andrew E., New York, N. Y. Skee handle. 1,684,326; Sept. 11.
Masury, Alfred F., and E. R. Gurney, Beechhurst, assignors to International Motor Company, New York, N. Y. Vehicle spring construction. 1,684,041; Sept. 11.
Mathewson, Maxwell I. (See Copland, A. W., and Mathewson.)
Matthael, Frederick C. (See Snell, Samuel A., assignor.)
Mauser, Alfons, Cologne-Marienburg, Germany. Container such as barrel, drum, or the like. 1,683,788; Sept. 11.
Mavis, Firn C., and G. B. Sampair, Tacoma, Wash. Sawyer's indicator for sawmill log carriages. 1,683,909; Sept. 11.
Mavrogenis, Aristote, Milwaukee, Wis. Electron-discharge device. 1,684,104; Sept. 11.
May Hosiery Mills. (See Perry, Napoleon J., assignor.)
Mayer, Leo, assignor to Henry Cole Company, Boston, Mass. Electric-lamp socket. 1,684,356; Sept. 11.
Mayhew, Sanford B., Marietta Township, Whatcom County, Wash. Spits used in preparing salmon for barbecue. 1,683,834; Sept. 11.
Maze, Augustus E., Orange, N. J. Resinous composition of matter and making same. 1,683,835; Sept. 11.
McArthur, Arthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Apparatus for packing doubled sheets and plates. 1,683,982; Sept. 11.
McCain, Paul H., assignor to Economy Screw Corporation, Chicago, Ill. Making nuts. 1,684,238; Sept. 11.
McCloskey, Frederick W. (See Bethel, Claude, and McCloskey.)
McConway & Torley Company, The. (See Kelso, William, assignor.)
McCord Radiator & Mfg. Co. (See Harris, Joseph D., assignor.)
McCord Radiator & Mfg. Co. (See Pickhard, George H., assignor.)
McDonald, John H., Hamberg, N. Dak. Bottle-cap receiver. 1,684,285; Sept. 11.
McGarvin, Luther R. (See Strafus, Anton F., assignor.)
McIlroy, Ronald C., Lewiston, Me., assignor to Columbia Woolen Company. Weaving. 1,683,983; Sept. 11.
McLachlan, Norman W. (See Smith, W. S., and McLachlan.)
McLachlan, Norman W. (See Smith, W. S., McLachlan, and Jacob.)
McMillan Book Company. (See Unger, Paul O., assignor.)
McMillan, John L., Syracuse, N. Y. Loose-leaf binder. 1,684,373; Sept. 11.
McMillan, John W., Muncie, Ind. Inhaling device. 1,683,686; Sept. 11.
McNulty, Gregory F. (See Brown, G. C., and McNulty.)
Meitzler, Charles R. (See Pieper, O. H., and Meitzler.)
Merrimack Man'f'g Co. (See Robinson, Charles A., assignor.)
Merrin, Samuel A., Chicago, Ill., assignor, by mesne assignments, to Marathon Paper Mills Company, Rothschild, Wis. Dispensing container. 1,684,188; Sept. 11.
Mertzanoff, André M., assignor to American Radiator Company, New York, N. Y. Boiler. 1,683,836; Sept. 11.
Mertzanoff, André M., assignor to American Radiator Company, New York, N. Y. Boiler. 1,683,837; Sept. 11.
Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Apparatus for controlling the positioning of devices from a distance. 1,684,042; Sept. 11.
Methudy, Carl E., St. Louis, Mo., assignor to Methudy Enamel Range Co., East St. Louis, Ill. Gas range. Des. 76,318; Sept. 11.
Methudy Enamel Range Co. (See Methudy, Carl E., assignor.)
Methudy, Eugene R., assignor to A. D. Goldman, St. Louis, Mo. Gas range. Des. 76,317; Sept. 11.
Meyer, Albert, Chicago, Ill. Baseball game. 1,684,189; Sept. 11.
Meyer, Charles A. (See De Pue, James C., assignor.)
Meyer, Gustave E., New Meadows, Idaho. Leaf turner. 1,684,043; Sept. 11.
Meyers, Clem B. (See Smith, R. H., and Meyers.)
Mezger, Charles A. (See Weiland, A., Russell, and Mezger.)
Mieg, Walter, and A. Job, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs from dianthraquinonylamine-phenanthrenequinone. 1,684,327; Sept. 11.
Mijer, Pieter, assignor, by mesne assignments, to The Two-Tone Corporation, New York, N. Y. Dyeing. 1,683,687; Sept. 11.
Milan, Horace R., New York, N. Y. Cigar and cigarette lighter. 1,683,688; Sept. 11.

Miller, Charles. (See Toffelmier, L. J., and Miller.)
Miller, Ernest B. (See Patrick, W. A., and Miller.)
Miller, Thomas S., South Orange, N. J. Fluid-pressure-operated device. 1,684,063; Sept. 11.
Miller, William J., Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Timing mechanism. 1,684,064; Sept. 11.
Mills, Florence H. (See Kitterman, W. B., and Mills.)
Miner, Douglas F., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,684,065; Sept. 11.
Miner, Douglas F., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,684,066; Sept. 11.
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Minnix, William S., Washington, D. C. Combined sounding figure toy and return ball. 1,683,910; Sept. 11.
Mioton, Fitzhugh S., New Orleans, and L. H. Guerin, Covington, La. Plastering machine. 1,684,357; Sept. 11.
Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Reproducing position. 1,684,137; Sept. 11.
Molinelli, Charles M., New York, N. Y. Stair-covering apparatus. 1,684,328; Sept. 11.
Mollins, Walter E., Deptford, London, England. Wrapping machinery. 1,683,789; Sept. 11.
Moon, John C., St. Louis, Mo. Dust collector. 1,684,067; Sept. 11.
Moon, John C., St. Louis, Mo. Dust collector. 1,684,068; Sept. 11.
Mooney, Frank H., Chicago, Ill. Golf bag. 1,683,838; Sept. 11.
Mooney, Harry V., Seattle, Wash., and W. W. Hicks, San Francisco, Calif. Drying system. 1,683,984; Sept. 11.
Moorhouse, Samuel, assignor to Fairbairn Lawson Combe Barbour Limited, Leeds, England. Doffing apparatus for spinning, doubling, twisting, and like machines. 1,683,839; Sept. 11.
Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Die-casting machine. 1,683,721; Sept. 11.
Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Vending machine. 1,683,722; Sept. 11.
Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing machine. 1,683,689; Sept. 11.
Morris, Joseph F., West Lafayette, Ind. Water supply for automobile radiators. 1,683,911; Sept. 11.
Morrison, John A., Seattle, Wash., assignor to Safety Signal Company. Crossing signal. 1,683,690; Sept. 11.
Morse, Lawrence H., assignor to The American Multigraph Company, Cleveland, Ohio. Inking attachment for printing machines. 1,683,840; Sept. 11.
Morton, William A., assignor to The Amsler-Morton Company, Pittsburgh, Pa. Glass leer. 1,684,239; Sept. 11.
Moser, Charles, Los Angeles, Calif. Device for holding toilet-paper rolls. 1,684,190; Sept. 11.
Mosquera, Leoncio L., Buenos Aires, Argentine. Demountable brush. 1,684,358; Sept. 11.
Mullen, James J., and F. M. Stambaugh, St. Louis, Mo.; said Stambaugh assignor to said Mullen. Ribbed or corrugated sheet-metal member. 1,683,841; Sept. 11.
Mullen, James J., and F. M. Stambaugh, St. Louis, Mo.; said Stambaugh assignor to said Mullen. Forming ribbed or corrugated sheet metal members. 1,683,842; Sept. 11.
Müller, Ernst, Berlin, Germany. Fur testing and cutting device. 1,684,359; Sept. 11.
Muller, Rudolph G., Irvington, N. J. Fur-hat-blocking machine. 1,683,790; Sept. 11.
Mulock, William R., Winnipeg, Manitoba, Canada. Belt. 1,683,691; Sept. 11.
Multi-Needle Engineering Corporation. (See Boettcher, Gustav A., assignor.)
Munch, Walter, Superior, Wis., assignor to Syphonix Refrigerator Company. Show case. 1,683,791; Sept. 11.
Murphy, Ralph, assignor, by mesne assignments, to Franklin Development Corporation, Syracuse, N. Y. Clutch construction. 1,683,624; Sept. 11.
Murray, Thomas E. (See Phelps, George H., assignor.)
Muzzio, James A., assignor to R. S. Muzzio, Cleveland, Ohio. Padlock. 1,683,985; Sept. 11.
Muzzio, Rosa S. (See Muzzio, James A., assignor.)
Myers, John S. (See Schwendner, A. F., and Myers.)
Myllus, Walter G., Wilkinsburg, Pa., and C. M. Hoeftman, Newark, N. J., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. 1,684,191; Sept. 11.
Myres, Robert W., assignor to Vattenborg Systems Inc., Seattle, Wash. Colonic mobile unit. 1,683,723; Sept. 11.
Naamlooze Vennootschap Machinefabriek "Reineveld". (See Tol, Hermanus F., assignor.)
National Machinery Co., The. (See Clouse, William L., assignor.)
National Standard Company. (See Hopkins, Arthur C., assignor.)
National Tube Company. (See Felding, William H., assignor.)
Naumburg, Robert E., Winchester, Mass. Container for disinfectants. 1,683,792; Sept. 11.
Neblett, Charlie C., Norfolk, Va. Pipe cutter. 1,683,912; Sept. 11.
Nelson Bros. and Strom. (See Strom, C. O., and Nelson, assignor.)
Nelson, Daniel, Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Packaging merchandise for shipment. 1,683,843; Sept. 11.
Nelson, Herbert M., jr. (See Strom, C. O., and Nelson.)
Nemeth, Bert C. (See Nemeth, Steffen P., assignor.)
Nemeth, Steffen P., assignor, by mesne assignments, of one-half to B. C. Nemeth, Chicago, Ill. Putter attachment. 1,684,192; Sept. 11.
Neveu, Frank A., Los Angeles, Calif. Window shade. 1,683,844; Sept. 11.
New Haven Clock Co., The. (See Whitehead, Richard H., assignor.)
Ney, Adolphe H., New York, N. Y. Flotation of ores. 1,683,724; Sept. 11.
Nickerson, Elmer K., Springfield, assignor to The Chapman Valve Manufacturing Company, Indian Orchard, Mass. Valve construction. 1,683,825; Sept. 11.
Nisbet, John, et al. (See Becker, Joseph, assignor.)
Nixdorff, Samuel P., Schenectady, N. Y., assignor to General Electric Company. Reproducing position. 1,684,138; Sept. 11.
Noack, William A., Oakland, Calif., assignor to Conceal o Fixture Company, Inc. Combination shelf and drop door. 1,684,193; Sept. 11.
Noggins, David C., New Haven, Conn. Combined table and lamp. Des. 76,319; Sept. 11.
Nordling, William G., Newark, N. J. Electric hot plate. 1,684,374; Sept. 11.
North & Judd Manufacturing Company. (See Freysinger, John B., assignor.)
Northam Warren Corporation. (See Haik, Louis W., assignor.)
Northrup, Edwin F., near Princeton, assignor to Ajax Electrothermic Corporation, Trenton, N. J. Induction pressure or vacuum furnace. 1,683,986; Sept. 11.
Northwestern Paper Goods Company. (See Olm, Oscar J., assignor.)
Norwood, Joseph C., San Francisco, Calif., assignor to Intertype Corporation. Mold. 1,684,360; Sept. 11.
Nowosielski, Edward B., Bloomfield, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Automatic governor. 1,683,626; Sept. 11.
Nyman, John O., assignor to The United Metal Products Company, Canton, Ohio. Bumper for sliding doors. 1,683,793; Sept. 11.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Phase-regulating system. 1,683,725; Sept. 11.
Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Making tire-valve stems and the like. 1,684,194; Sept. 11.
Oakley, John, and H. D. Croft, assignors to Perkins Machine and Gear Company, Springfield, Mass. Broach mechanism. 1,684,139; Sept. 11.
O'Brien, Robert J., jr., Belleville, assignor to Collway Laboratories, Inc., Newark, N. J. Weighting silk and the product thereof. 1,684,286; Sept. 11.
O'Brien, William C., Canton, Ohio, assignor to Central Alloy Steel Corporation, New York, N. Y. Electric hammer. 1,683,794; Sept. 11.
O-Cedar Corp'n. (See Brown, Peter, assignor.)
Ogden, Amos, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Depth charge, bomb, projectile, and other explosive bodies. 1,683,692; Sept. 11.
Ohm, Emil K., deceased, Athens, Ohio; R. J. Studer, administrator. Sorting and binding desk. 1,683,795; Sept. 11.
Oliver Chilled Plow Works. (See Altgelt, Herman E., assignor.)
Oliver Chilled Plow Works. (See Gallagher, Arthur D., assignor.)
Olm, Oscar J., Minneapolis, assignor to Northwestern Paper Goods Company, St. Louis, Minn. Envelope. 1,684,105; Sept. 11.
Olmsted, Russell C., Hudson Heights, N. J. Reenforcement for concrete structures. 1,684,195; Sept. 11.
Olson, Percy W., St. Paul, Minn., assignor to W. S. Ferris, Elkhart, Ind., trading as The Domore Chair Company. Adjustable back rest for chairs. 1,684,106; Sept. 11.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,684,375; Sept. 11.
O'Sullivan, Patrick J., Woodside, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Safety device. 1,683,693; Sept. 11.
Otto, Stuart, Scranton, Pa., assignor to Iceless Automatic Refrigerator Company. Refrigerating apparatus. 1,684,196; Sept. 11.
Ovestrud, Melvin, assignor to Twin City Forge & Foundry Company, Stillwater, Minn. Forming tie plates. 1,684,107; Sept. 11.
Paige, Arthur E., Philadelphia, Pa. Vehicle lock and signaling device. 1,683,913; Sept. 11.
Paluck, Alexander E. Belfield, N. Dak., assignor of one-half to S. J. Cieslewicz, Wibaux, Mont. Figure toy. 1,684,287; Sept. 11.
Parker, Harry W. Brooklyn, N. Y. Ash tray. Des. 76,320; Sept. 11.
Parkinson and W. & B. Cowan Limited. (See Beasley, Clifford H., assignor.)

Patent-Treerhand-Gesellschaft fur elektrische Gluhlampen m. b. H. (See Thomas, Max, assignor.)
Patrick, Walter A., and E. B. Miller, assignors to The Silica Gel Corporation, Baltimore, Md. Manufacturing sulphuric acid. 1,683,694; Sept. 11.
Patrick, Walter A., and E. H. Barclay, assignors to The Silica Gel Corporation, Baltimore, Md. Preparing tungsten oxide gel. 1,683,695; Sept. 11.
Paull, John J., assignor to Eagle Manufacturing Company, Wellsburg, W. Va. Flowerpot holder. Des. 76,321; Sept. 11.
Payne, Warren R. (See Fischer, J. J., and Payne.)
Payton & Kelley Co. (See Rowan, Albert J., assignor.)
Pearce, David, Los Angeles, Calif. Broken-tap extractor. 1,683,796; Sept. 11.
Pearson, W. L. (See Livergood, Gerald R., assignor.)
Pedrick, Irenee P. (See Kneass, S. L., and Pedrick.)
Pennington, Gordon R., Cleveland, Ohio. Belt driving mechanism. 1,684,069; Sept. 11.
Pennington, Gordon R., Cleveland, Ohio. Motor vehicle. 1,684,070; Sept. 11.
Pereyra, Armando J., San Francisco, Calif. Apparatus for forming and thereafter releasing tortilla. 1,683,797; Sept. 11.
Perkins, Julian L., West Springfield, and H. D. Croft, assignors to Perkins Machine and Gear Company, Springfield, Mass. Broach mechanism. 1,684,140; Sept. 11.
Perkins, Julian L., West Springfield, and H. D. Croft, assignors to Perkins Machine and Gear Company, Springfield, Mass. Feed mechanism. 1,684,141; Sept. 11.
Perkins Machine and Gear Company. (See Oakley, J., and Croft, assignors.)
Perkins Machine and Gear Company. (See Perkins, J. L., and Croft, assignors.)
Perry, Napoleon J., assignor to May Hosiery Mills, Nashville, Tenn. Pattern mechanism for knitting machines. 1,683,798; Sept. 11.
Peteler, Adolph, Freeport, assignor to T. Howe, White Plains, N. Y. Vernier dial for radio adjustments. 1,683,845; Sept. 11.
Peter, Leslie H., London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Alternating-current relay. 1,683,696; Sept. 11.
Peterson, Ernest E., South Hibbing, Minn. Track-tamping machine. 1,684,109; Sept. 11.
Petroff, Grigori, Moscow, Russia, and P. Shestakoff, Paris, France. Preparing phenol-formaldehyde condensation products. 1,684,142; Sept. 11.
Petsch, Everett C., Pleasant Dale, Nebr. System for preventing liquids from freezing. 1,684,197; Sept. 11.
Petsche, Joseph D. (See Leustig, B. B., and Petsche.)
Pettit, Walter, Clare, Mich. Display device. 1,684,198; Sept. 11.
Pfiffer, Fred J., Los Angeles, Calif. Window-operating mechanism. 1,683,914; Sept. 11.
Phelps, George H., Warehouse Point, Conn., assignor to T. E. Murray, Brooklyn, N. Y. Electric welding. 1,684,108; Sept. 11.
Philadelphia Storage Battery Company. (See Holland, Walter E., assignor.)
Photostat Corporation. (See Greene, John S., assignor.)
Pickhard, George H., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Attachment for punch presses. 1,683,799; Sept. 11.
Pickles, Albert S., Providence, R. I. Baby harness. 1,684,110; Sept. 11.
Pickwick Corporation, The. (See Austin, Dwight E., assignor.)
Pieper, Alphonse F., et al. (See Pieper, O. H., and Meitzler, assignors.)
Pieper, Oscar H., and C. R. Meitzler, assignors to O. H. Pieper and A. F. Pieper, Rochester, N. Y. Dental instrument. 1,684,143; Sept. 11.
Pieper, Oscar H., et al. (See Pieper, O. H., and Meitzler, assignors.)
Pierce, Elwood K., Springfield, assignor to The Cast Steel Devices Company, Lima, Ohio. Boiler plug. 1,683,726; Sept. 11.
Pigeon, Joseph E., Hollywood, Calif. Aeronautics. 1,684,240; Sept. 11.
Pitt, Harry, Elisabeth, N. J. Amusement racing device. 1,684,199; Sept. 11.
Pittsburgh Plate Glass Company. (See Heichert, Herman S., assignor.)
Pittsburgh Steel Company. (See Eickhoff, Theodore H., assignor.)
Platt, Joseph, Detroit, Mich. Bank-protecting device. 1,683,800; Sept. 11.
P & M Company, The. (See Warr, Harold G., assignor.)
Pollock, James, New York, N. Y. Apparatus for burning fine fuel in suspension. 1,684,200; Sept. 11.
Pollock, James, New York, N. Y. Boiler for utilizing fine coal. 1,684,201; Sept. 11.
Pollock, Robert T., New York, N. Y., assignor to The Universal Oil Products Company, Chicago, Ill. Apparatus for treating oil. 1,683,801; Sept. 11.
Potter, Leo, Malba, assignor to Potter Products Corporation, New York, N. Y. Lighter. Des. 76,322; Sept. 11.
Potter Products Corporation. (See Potter, Leo, assignor.)
Povel, Hyacinthe A., Paris, France. Vanity case. 1,684,202; Sept. 11.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radio receiving system. 1,684,361; Sept. 11.
Pratt, William H., and D. R. Price, Lynn, Mass., assignors to General Electric Company. Telemetric impulse summation system. 1,684,241; Sept. 11.
Price, David R. (See Pratt, W. H., and Price.)
Price, John R., Charlottesville, Va. Electric-circuit control system. 1,684,071; Sept. 11.
Prince, Joseph E., and J. E. Schooley, Seattle, Wash. Spotlight-mounting device. 1,683,915; Sept. 11.
Prosperity Company, Inc., The. (See Davis, Ernest, assignor.)
Prosperity Company Inc., The. (See Hallowell, Louis S., assignor.)
Pullets, George, New York, N. Y. Mounted automobile jack. 1,683,987; Sept. 11.
Quaker Silver Company. (See Jennings, James W., assignor.)
Radio Corporation of America. (See Goldsmith, Alfred N., assignor.)
Radio Corporation of America. (See Ranger, Richard H., assignor.)
Rahr, Chester E. (See Cady, W. H., and Rahr.)
Ramig, George H. (See Sherman, A. G., Smith, Ramig, and Roose.)
Ramsay, Warren A., Jersey City, N. J. Waterproof container. 1,684,289; Sept. 11.
Randolph, Charles P., Oak Park, assignor to Edison Electric Appliance Company, Chicago, Ill. Percolator. 1,684,242; Sept. 11.
Ranger, Richard H., Brooklyn, N. Y., assignor to Radio Corporation of America. Interference-reducing means for radio receiving apparatus. 1,683,916; Sept. 11.
Rangiertechnische Gesellschaft m. b. H. (See Wenzel, Karl E., assignor.)
Rankin, David P., Kearney, Nebr. Spirally-wound metallic belt. 1,683,697; Sept. 11.
Rath, Lewis G., Pine Lawn, Mo. Dirigible headlight. 1,683,802; Sept. 11.
Rathjen, William L., Portland, Oreg. Thread holder and cutter. 1,683,803; Sept. 11.
Rau, Gustav, Kansas City, Mo. Air-cooled block for lining walls. 1,684,329; Sept. 11.
Rau, Henry V., Brooklyn, assignor to A. G. Spalding & Bros. Inc., New York, N. Y. Golf-bag bottom. 1,684,111; Sept. 11.
Raun, Peter H., assignor to The Frederick Engineering Company, Frederick, Md. Apparatus for handling ashes and other materials. 1,683,917; Sept. 11.
Reach, A. J., Company. (See Dieterle, Frank, assignor.)
Read, Alexander M., Columbus, Ohio. Pulverizing machine. 1,683,627; Sept. 11.
Reading, Walter J., Easton, Pa. Direction-indicator switch for automobiles. 1,683,988; Sept. 11.
Reardon, Edwin M. (See Fisher, R. D., and Reardon.)
Reed, Carl S., Yonkers, assignor to International Combustion Engineering Corporation, New York, N. Y. Air preheater. 1,683,804; Sept. 11.
Reed, Charles E., McHenry Township, McHenry County, Ill. Lathe. 1,684,072; Sept. 11.
Regall, Bruno, et al. (See Schugerl, Louis, assignor.)
Regall, John, et al. (See Schugerl, Louis, assignor.)
Reichelt, Bruno, Nutley, N. J. Airplane. 1,683,805; Sept. 11.
Remington Rand Inc. (See Welland, A., Russell, and Mezger, assignors.)
Rettig, Bruce C., Fort Worth, Tex. Ceiling-fan hanger. 1,684,144; Sept. 11.
Reynolds Machine Company, The. (See Brown, G. C., and McNulty, assignors.)
Rice, Joseph, assignor to Elevator Company of America, Chicago, Ill. Elevator platform. Re17,080; Sept. 11.
Rich, Theodore A., East Lynn, Mass., assignor to General Electric Company. Measuring device. 1,684,243; Sept. 11.
Richards, John W., jr., Essexville, Mich. Shoe for transmission-clutch-drum lugs. 1,683,806; Sept. 11.
Richardson, Bess E., Los Angeles, Calif. Carton. 1,684,244; Sept. 11.
Richter, George A., assignor to Brown Company, Berlin, N. H. Recovery of waste gases in the production of sulphite pulp. 1,683,628; Sept. 11.
Richter, Max, assignor to Textile Machine Works, Wyomissing, Pa. Tension-take-up device for knitting machines. 1,683,989; Sept. 11.
Richter, Wolfgang D., Philadelphia, Pa. Welt mechanism for full-fashioned-knitting machines. 1,683,698; Sept. 11.
Riddell, William A., assignor to The Frederick Iron & Steel Company, Frederick, Md. Separating or classifying machine. 1,683,918; Sept. 11.
Riek, Rudolph A., Rhinelander, Wis. Shield for refrigerating units. 1,683,919; Sept. 11.
Riek, Rudolph A., Rhinelander, Wis. Refrigerator lining and method of making. 1,684,145; Sept. 11.
Ripley, Charles T., assignor to S. & T. Metal Company, Chicago, Ill. Railway journal bearing. 1,684,146; Sept. 11.
Ritcheson, Guy O. (See Harr, F. D., and Fallon, assignor.)
Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Brake for gyratory centrifugals. 1,684,868; Sept. 11.
Roberts, Flossie, executrix. (See Roberts, William C.)

Roberts, Richard J., San Francisco, Calif. Preheater for type and lead casting machines. 1,684,112; Sept. 11.
Roberts, William C., deceased, Duquoin, Ill.; F. Roberts, executrix. Stripping. 1,684,147; Sept. 11.
Robertson, Harry M., Cleveland, Ohio. Kiln. 1,683,807; Sept. 11.
Robertson, William J., Winnipeg, Manitoba, Canada. Sleigh. 1,683,846; Sept. 11.
Robey, Guy M. (See Smyth, C. D., and Robey.)
Robinson, Charles A., assignor to Merrimack Man'fg Co., Lowell, Mass. Pile-cutting machine. 1,684,113; Sept. 11.
Robinson, John G., Blackwell, Okla. Well tubing. 1,683,629; Sept. 11.
Robinson, Joseph, New York, N. Y. Automatic train-pipe-connecter head. 1,684,376; Sept. 11.
Rohne, Even J. (See Rohne, Jens E., assignor.)
Rohne, Jens E., assignor to E. J. Rohne, Minneapolis, Minn. Water heater for internal-combustion engines. 1,683,920; Sept. 11.
Ronneberger, Fritz, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Disconnecting switch. 1,684,148; Sept. 11.
Roos, Oscar C., Rockland, Me. Electromagnetic wave receiving system. 1,683,847; Sept. 11.
Roose, Cyriel A. (See Sherman, A. G., Smith, Ramig, and Roose.)
Rose, William H., Jersey City, N. J. Liquid valve. 1,683,727; Sept. 11.
Ross, James G., assignor of 40 per cent to E. Guyer, Seattle, Wash. Street sign. 1,683,921; Sept. 11.
Rotter, Max, Milwaukee, Wis., assignor to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo. Electrical power equipment. 1,684,073; Sept. 11.
Rowan, Albert J., assignor to Payton & Kelley Co., Providence, R. I. Decorated tube. Des. 76,323; Sept. 11.
Rowe, Ardello M. and C. O., Bellingham, Wash. Automatic-moving-target shooting gallery. 1,683,808; Sept. 11.
Rowe, Claude O. (See Rowe, Ardello M. and C. O.)
Roxana Petroleum Corporation. (See Tijmstra, Sijbren, assignor.)
Royle, Vernon, Paterson, N. J. Strainer head for tubing machines. 1,684,203; Sept. 11.
Rubenstein, Harry, Brooklyn, N. Y. Apparatus and method for producing knitted fabrics. 1,683,609; Sept. 11.
Ruete, William T., New York, N. Y., assignor to General Electric Company. Ceiling box. 1,684,245; Sept. 11.
Rushton, Arthur L., Omaha, Nebr., assignor of one-half to M. H. Lane, Washington, D. C. Separation of butter fat from buttermilk and buttermilk whey. 1,683,728; Sept. 11.
Rushton, Arthur L., Omaha, Nebr., assignor of one-half to M. H. Lane, Washington, D. C. Recovering butter from buttermilk. 1,683,729; Sept. 11.
Rusk, Carl, Astoria, Oreg. Hauling-in device. 1,683,922; Sept. 11.
Russell, Harold R. (See Weiland, A., Russell, and Metzger.)
Russell, Silas B., St. Louis, Mo. Furnace. 1,683,730; Sept. 11.
Ruttenberg, Samuel, Brooklyn, assignor to S. Ruttenberg and M. N. Leibowitz, New York, N. Y. Constructing ballast resistances. 1,684,204; Sept. 11.
Ruttenberg, Samuel, et al. (See Ruttenberg, Samuel, assignor.)
Rutter, Argyle R., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Watthour meter. 1,684,149; Sept. 11.
Ruud Manufacturing Company. (See Humphrey, Herbert S., assignor.)
S. & T. Metal Company. (See Ripley, Charles T., assignor.)
Saal, Christian L., assignor of one-fourth to W. Laessig, Paterson, N. J. Winding machine. 1,684,114; Sept. 11.
Safety Signal Company. (See Morrison, John A., assignor.)
St. Louis Pump & Equipment Company. (See Hinds, Sherwood, assignor.)
Salva Carbureter Company, The. (See Salva, John S., assignor.)
Salva, John S., Latonia, assignor to The Salva Carbureter Company, Covington, Ky. Carburetor. 1,684,246; Sept. 11.
Sampair, Guy B. (See Mavis, F. C., and Sampair.)
Samstag, Henry R., assignor to Samstag & Hilder Bros., Inc., New York, N. Y. Blank of leather. Des. 76,324; Sept. 11.
Samstag & Hilder Bros., Inc. (See Samstag, Henry R., assignor.)
Saranac Automatic Machine Corporation. (See Craig, Edward, assignor.)
Sawyer, Lester T., Fitchburg, Mass. Hair retainer or comb. 1,684,362; Sept. 11.
Schachter, Max, New York, N. Y. Adjustable length tie. 1,684,150; Sept. 11.
Schaelchlin, Walter, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage regulator. 1,684,151; Sept. 11.
Schaeren, Ernst, Winterthus, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Injection device for internal-combustion engines. 1,684,074; Sept. 11.
Schaffer, Max Co. (See Krause, Arthur R., assignor.)
Schenck, Charles, and L. Fine, assignors to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel for elastic tires. 1,683,700; Sept. 11.
Schettler, Gustav A., Bramley, Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Me. Leather-working machine. 1,683,704; Sept. 11.
Schick, Adolph M., Wheeling, W. Va. Mechanical display apparatus. 1,683,990; Sept. 11.
Schiebeler, Carl, Berlin, Germany, assignor to General Electric Company. Motor-control system. 1,684,247; Sept. 11.
Schleicher, Frank J., St. Louis, Mo. Box. Des. 76,325; Sept. 11.
Schleicher, Frank J., St. Louis, Mo. Box. Des. 76,326; Sept. 11.
Schmidlin, Robert. See Siebert, O., Thiess, Schöner, Schmidlin, Benade, and Deicke.)
Schmidlin, Robert. (See Thiess, K., and Deicke, and Schmidlin.)
Schmidt, John, assignor to Sprague-Sells Corporation, Hoopeston, Ill. Vegetable-pulping machine. 1,683,705; Sept. 11.
Schneider & Cie. (See Methlin, Nicolas E., assignor.)
Schofield, William R., jr., assignor to Leeds & Northrup Company, Philadelphia, Pa. Control system. 1,683,809; Sept. 11.
Schon, Lester. (See Shoenberg, M. H., and Schon.)
Schöner, Bernhard. (See Siebert, O., Thiess, Schöner, Schmidlin, Benade, and Deicke.)
Schooley, James E. (See Prince, J. E., and Schooley.)
Schramm, Walter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,684,152; Sept. 11.
Schugerl, Louis, assignor of forty-eight per cent to B. Regall and J. Regall, New Kensington, Pa. Window-sash construction. 1,683,991; Sept. 11.
Schuman, Leland M. H., Savannah, Ga. Radius rod for motor vehicles. 1,683,923; Sept. 11.
Schürer, Eugen, assignor to Felton & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Lead-sheathed telephone cable. 1,684,363; Sept. 11.
Schuster, Karl R., Hopatcong, N. J. Mixing concrete and transporting the same. Re17,082; Sept. 11.
Schuster, Karl R., Hopatcong, N. J. Transporting mixed materials. 1,684,370; Sept. 11.
Schwab, James W., Gulf, assignor to Texas Gulf Sulphur Company, Bay City, Tex. Treating sulphur. 1,683,731; Sept. 11.
Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Table. Des. 76,328; Sept. 11.
Schwarz, Carl, Rostock, Germany, and H. Schwarz, Chicago, Ill. Boat water-closet. 1,683,924; Sept. 11.
Schwarz, Hugo. (See Schwarz, Carl and H.)
Schwendner, Anthony F., Essington, and J. S. Myers, Philadelphia, Pa., assignors to Westinghouse Electric & Manufacturing Company. Hydraulic transmission system. 1,684,075; Sept. 11.
Scott, Charles W., Minneapolis, Minn. Savings bank. Des. 76,327; Sept. 11.
Scott, Thomas S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hollow-shaft collector-lead support. 1,683,706; Sept. 11.
Seckel, Gerrit J., Enschede, Netherlands. Weaving textile fabrics. 1,684,364; Sept. 11.
See, Adolf A., Lake Charles, La. Chair or similar article of furniture. Des. 76,337; Sept. 11.
Seebach, Fritz, Gotha, assignor to Bakelite Gesellschaft mit beschränkter Haftung, Berlin-Charlottenburg, Germany. Artificial resin and making the same. 1,683,701; Sept. 11.
Seebach, Fritz, Erkner, near Berlin, assignor to Bakelite Gesellschaft mit beschränkter Haftung, Berlin, Germany. Purifying phenol formaldehyde resins. 1,683,702; Sept. 11.
Selective Treatment Company Limited. (See Dolbear, Samuel H., assignor.)
Selin, Charles H., Brooklyn, N. Y. Snow and street cleaning shovel. 1,683,732; Sept. 11.
Sellers, William, & Company. (See Kneass, S. L., and Pedrick, assignors.)
Sells, Ogden S., assignor to Sprague-Sells Corporation, Hoopeston, Ill. Separating thistle buds from peas. 1,683,703; Sept. 11.
Sewall, Frank J., Columbiana, Ohio. Educational device. 1,683,733; Sept. 11.
Sharp, John, Cleveland, Ohio. Sifter. 1,683,848; Sept. 11.
Sheasley, Charles H., Franklin, Pa. Automotive hoisting engine. 1,683,734; Sept. 11.
Sherman, Alvin G., G. Smith, G. H. Ramig, Detroit, and C. A. Roose, Grosse Pointe Farms, assignors to The Detroit Vapor Stove Co., Detroit, Mich. Heat-control device for ovens. 1,684,205; Sept. 11.
Shestakoff, Peter. (See Petroff, G., and Shestakoff.)
Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Circuit interrupter and socket. 1,683,992; Sept. 11.
Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Electrical cigar lighter. 1,683,993; Sept. 11.
Shonnard, Harold W., Upper Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Elevator-control apparatus. 1,683,925; Sept. 11.

Shonnard, Harold W., Upper Montclair, N. J., assignor to Elevator Supplies Company. Closure operator for sliding doors. 1,684,115; Sept. 11.
Siebert, Otto, Dessau, K. Thiess, Hochst-on-the-Main, B. Schöner, Wolfen, near Bitterfeld, R. Schmidlin, Hochst-on-the-Main, W. Benade, Dessau, and B. Deicke, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Water-soluble dyestuff and producing same. 1,684,330; Sept. 11.
Sievers, Arthur W., Valparaiso, Ind., assignor to N. S. Amstutz. Scintillating sign. 1,684,369; Sept. 11.
Silica Gel Corporation, The. (See Patrick, W. A., and Barclay, assignors.)
Silica Gel Corporation, The. (See Patrick, W. A., and Miller, assignors.)
Simpson, William G., Ferndale, Mich. Hydrocarbon turbine engine. 1,683,994; Sept. 11.
Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
Sjostrom, Agnes, Cherokee, Iowa. Chicken brooder. 1,683,926; Sept. 11.
Skelding, Louis, Vancouver, British Columbia, Canada. Hot-air heating system. 1,684,044; Sept. 11.
Slagle, William F., Putneyville, Pa. Horseshoe. 1,684,045; Sept. 11.
Smallwood, Horace W. (See Lister, J. F., and Smallwood.)
Smith, Charles F., Tacoma, Wash. Clothes-drying rack. 1,684,153; Sept. 11.
Smith, George. (See Sherman, A. G., Smith, Ramig, and Roose.)
Smith, George A., Baltimore, Md. Hydrometer chamber. 1,683,735; Sept. 11.
Smith, Goodwin B., assignor to The Junoform Company, Philadelphia, Pa. Coil-controlled device. 1,683,995; Sept. 11.
Smith, Harry B., assignor to Lightship Cloth Board Corporation, Brooklyn, N. Y. Cloth board and similar article. 1,683,707; Sept. 11.
Smith, Howard F. (See Weise, Edmund F., assignor.)
Smith, James O., assignor of one-half to L. E. Harshbarger, Kiefer Okla. Valve. 1,683,927; Sept. 11.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,684,155; Sept. 11.
Smith, John H., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Condenser. 1,684,154; Sept. 11.
Smith, John M., Chihuahua, Mex. Digit guard. 1,684,076; Sept. 11.
Smith, John W., Philadelphia, Pa. Rolling thin sections. 1,684,206; Sept. 11.
Smith, Maud E., El Reno, Okla. Baby pants. 1,684,046; Sept. 11.
Smith, Raymond H., and C. B. Meyers, Richmond, Ind. Oil burner. 1,684,288; Sept. 11.
Smith, S. Morgan, Company. (See Jessop, George A., assignor.)
Smith, Samuel T. G., St. Louis, Mo. Making smooth castings. 1,683,630; Sept. 11.
Smith, Willoughby S., Benchams, Newton Poppleford, and N. W. McLachlan, London, England. Cable telegraphy and the like. 1,684,116; Sept. 11.
Smith, Willoughby S., Newton Poppleford, N. W. McLachlan, and W. G. R. Jacob, London, England. Telegram system and circuit arrangement therefor. 1,684,117; Sept. 11.
Smith, Willoughby S., Benchams, Newton Poppleford, N. W. McLachlan, and W. G. R. Jacob, London, England. Cable telegraphy and the like and circuit therefor. 1,684,248; Sept. 11.
Smith's, John E., Sons Co. (See Knowlton, Eugene W., assignor.)
Smyth, Clarence D., Rox, Nev., and G. M. Robey, Los Angeles, Calif. Traffic signal. 1,684,207; Sept. 11.
Smyth, Cornelius M., Chicago, Ill. Ear guard. 1,683,928; Sept. 11.
Smyth Manufacturing Company. (See Bischof, Ulrich, assignor.)
Snell, Samuel A., assignor to F. C. Matthael, Detroit, Mich. Automobile heater. 1,684,118; Sept. 11.
Snow, Walter A., New York, N. Y. Filling container. 1,683,996; Sept. 11.
Snyder, Robert W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Air-bag stripper. 1,683,736; Sept. 11.
Société Belge des Produits Rationnels, Societe Anonyme. (See Gougnard, Henri, assignor.)
Solomon, Arthur, New York, N. Y. Textile fabric. Des. 76,329; Sept. 11.
Soulé, Edward L., Berkeley, Calif. Column clamp. 1,683,929; Sept. 11.
Spalding, A. G., & Bros. Inc. (See Rau, Henry V., assignor.)
Spear, Elliot N., Auburn, Me. Chair. Des. 76,330; Sept. 11.
Specht, Harry M., Pelham, N. Y. Impregnating fabrics with substantially permanent fragrance and the product. 1,683,849; Sept. 11.
Speedometer Lock-Seal Company. (See Summers, Arthur D., assignor.)
Spittal, David, Chambly Basin, Quebec, Canada. Golf club. 1,683,810; Sept. 11.
Splitdorf Electrical Company. (See Nowosielski, Edward B., assignor.)
Sprague-Sells Corporation. (See Schmidt, John, assignor.)
Sprague-Sells Corporation. (See Sells, Ogden S., assignor.)
Sprung, Edwin G., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,684,156; Sept. 11.
Staege, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed-regulator system. 1,684,077; Sept. 11.
Staggs, Horace M., Dallas, Tex. Air-lift pump. 1,683,930; Sept. 11.
Stambaugh, Francis M. (See Mullen, J. J., and Stambaugh.)
Stancliffe, Cecil W., Stamford, Conn., assignor to Valveless Oil Burner Corporation, New York, N. Y. Air-governed destination control for liquids. 1,683,737; Sept. 11.
Standard Fibre Company. (See White, William W., assignor.)
Stanley, Arthur M., Lynn, assignor to Stanley Steel Welded Wheel Corporation, Boston, Mass. Disk wheel and making the same. 1,683,738; Sept. 11.
Stanley, Henry, Galveston, Tex. Egg-preserving compound. 1,683,631; Sept. 11.
Stanley Steel Welded Wheel Corporation. (See Stanley, Arthur M., assignor.)
Stanley Works Gesellschaft mit beschränkter Haftung. (SeeVom Bruck, Friedrich C., assignor.)
Starling, William J., Chicago, Ill. Balancing means for vehicle wheels. 1,684,290; Sept. 11.
Sterling, George H. (See Sterling, Laurence B., assignor.)
Sterling, Laurence B., assignor to G. H. Sterling, Minneapolis, Minn. Motor heater. 1,684,157; Sept. 11.
Stevenson, Alexander R., jr., Schenectady, N. Y., assignor to General Electric Company. Automatic circuit controller. 1,684,249; Sept. 11.
Stone, Herbert G., Bristol, Tenn. Subliming apparatus. 1,683,931; Sept. 11.
Stone, John S., San Diego, Calif., assignor to American Telephone and Telegraph Company. Directive antenna array. 1,683,739; Sept. 11.
Stoven, Detlef W., Park City, Utah. Dairy utensil. 1,684,047; Sept. 11.
Strafus, Anton F., assignor of one-half to L. R. McGarvin, Los Angeles, Calif. Oil can. 1,683,997; Sept. 11.
Strom, Clifton O., and H. M. Nelson, jr., assignors to Nelson Bros. and Strom, Racine, Wis. Rubber-strip-cutting machine. 1,684,158; Sept. 11.
Stromberg-Carlson Telephone Manufacturing Company. (See Powell, Winfred T., assignor.)
Studebaker Corporation, The. (See Sprung, Edwin G., assignor.)
Studer, Robert J., administrator. (See Ohm, Emil K.)
Suits, Seymour, Philadelphia, Pa. Headlight. 1,683,998; Sept. 11.
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Summers, Arthur D., assignor to Speedometer Lock-Seal Company, Los Angeles, Calif. Combined locking device and seal. 1,683,932; Sept. 11.
Summers, Frank, assignor of one-half to L. Urbancic, Memphis, Tenn. Auger. 1,684,291; Sept. 11.
Sunset Feather Company. (See Krobitzsch, Robert W., assignor.)
Sweningson, Louis. (See Conhaim, F., and Sweningson.)
Switzer, Joseph. (See Geyer, J., and Switzer.)
Sykes, William E., Buffalo, N. Y. Flexible shaft coupling. 1,683,999; Sept. 11.
Symington Company, The. (See Dunbeck, Joseph R., assignor.)
Symington Company, The. (See Kadel, Byers W., assignor.)
Syphonix Refrigerator Company. (See Munch, Walter, assignor.)
Taggart Brothers Company. (See Taggart, Joseph W., assignor.)
Taggart, Joseph W., assignor to Taggart Brothers Company, Watertown, N. Y. Paper bag. 1,683,632; Sept. 11.
Tait, Edward B., Colchester, England. Rotary pump. 1,683,633; Sept. 11.
Takei, Kakutaro. (See Hosoi, Isamu, assignor.)
Tavender, Walter K., Haworth, N. J., assignor to I. Hadley. Electrical heater. 1,683,740; Sept. 11.
Taylor, George A., Boston, Mass. Match. 1,684,000; Sept. 11.
Taylor Instrument Companies. (See Ireland, George B., assignor.)
Taylor, William A., and C. M. Gidley, Borger, Tex. Tank-car placard. 1,684,048; Sept. 11.
Taylor, William P., Buffalo, N. Y. Carburetor. 1,683,634; Sept. 11.
Tegelberg, Gilbert H., Inglewood, Calif. Rocking-horse toy. 1,684,250; Sept. 11.
Teshima, Tadataka, Portland, Oreg. Artificial bait. 1,683,933; Sept. 11.
Texas Gulf Sulphur Company. (See Schwab, James W., assignor.)
Textile Machine Works. (See Richter, Max, assignor.)
Thatcher, Linden A., Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Stenciling machine. 1,683,635; Sept. 11.
Thatcher, Linden A., Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Stenciling machine. 1,683,741; Sept. 11.

Theanders, Fingo. (See Burwell, Ray F., assignor.)
Thiess, Karl. (See Siebert, O., Thiess, Schöner, Schmidlin, Benade, and Deicke.)
Thiess, Karl, B. Deicke, and R. Schmidlin, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Polyarylamine dyestuff and producing the same. 1,684,331; Sept. 11.
Thomas & Betts Co., The. (See Thomas, George C., jr., assignor.)
Thomas, Charles E., Long Beach, Calif. Safety carriage for derricks. 1,684,251; Sept. 11.
Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Outlet-box construction. 1,683,742; Sept. 11.
Thomas, Max, Weisswasser, Oberlausitz, assignor to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m. b. H., Berlin, Germany. Producing glass. 1,684,332; Sept. 11.
Thompson, Orville W., assignor to Jas. P. Marsh & Company, Chicago, Ill. Combined gauge and thermometer. 1,683,743; Sept. 11.
Thomson, Archibald, assignor to F. A. Hall, Peoria, Ill. Water circulator and air moistener for internal-combustion engines. 1,683,811; Sept. 11.
Tijmstra, Sijbren, Madison County, Ill., assignor to Roxana Petroleum Corporation. Refining oils. 1,684,159; Sept. 11.
Timken Roller Bearing Company, The. (See Chievitz, William J., assignor.)
Timmons, William D., Coshocton, Ohio. Cutting die. 1,683,934; Sept. 11.
Tinker, Herbert R., Lankershim, assignor of one-half to S. M. White, San Francisco, Calif. Combination spare-tire and accessory carrier. 1,684,160; Sept. 11.
Todd, George W., assignor to R. Todd, Omaha, Nebr. Dental instrument. 1,684,252; Sept. 11.
Todd, Rhena. (See Todd, George W., assignor.)
Toffelmier, Lance J., San Leandro, and C. Miller, Oakland, assignors to Junior Monarch Hay Press Company, San Leandro, Calif. Follower-operating mechanism for hay presses. 1,683,935; Sept. 11.
Tol, Hermanus F., The Hague, assignor to Naamloose Vennootschap: Machinefabriek "Reineveld," Delft, Netherlands. Ironing machine. 1,684,333; Sept. 11.
Toope, Robert F., New Haven, Conn. Automatic poultry feeder. 1,684,334; Sept. 11.
Tootbaker, Fred E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,683,636; Sept. 11.
Townsend, George H., Greenwich, Conn. Light casing. Des. 76,331; Sept. 11.
Traublitz, Sydney M., New York, N. Y. Electrical outlet. 1,684,161; Sept. 11.
Traxel, William J. (See Kantor, J., Fick, and Traxel.)
Trimpe, Emmett H., assignor to J. A. Everitt, Indianapolis, Ind. Artificial tree. 1,683,637; Sept. 11.
Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission. 1,684,162; Sept. 11.
Truscon Steel Company. (See Kane, Thomas H., assignor.)
Tubal Boiler Company. (See White, Raymond E., assignor.)
Tubular Rivet & Stud Company. (See Bray, Mellen N., assignor.)
Turner Tanning Machinery Company, The. (See Schettler, Gustav A., assignor.)
Turner, William, Louisville, Ky. Combined mop and wringer. 1,683,638; Sept. 11.
Turnquist, Edward, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Electric lamp. 1,684,292; Sept. 11.
Twin City Forge & Foundry Company. (See Ovestrud, Melvin, assignor.)
Two-Tone Corporation, The. (See Mijer, Pieter, assignor.)
Ulrich, Carl J., Minneapolis, Minn. Juice extractor. 1,683,850; Sept. 11.
Umbriaco, Frank, New York, N. Y. Accordion-locking means. 1,684,119; Sept. 11.
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Underwood Elliott Fisher Company. (See Thatcher, Linden A., assignor.)
Unger, Paul O., assignor to McMillan Book Company, Syracuse, N. Y. Cover for books, binders, and the like. 1,684,335; Sept. 11.
Union Switch & Signal Company, The. (See Peter, Leslie H., assignor.)
United Metal Products Company, The. (See Nyman, John O., assignor.)
United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See La Chapelle, Fred M., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United Shoe Machinery Corporation. (See O'Sullivan, Patrick J., assignor.)
United Shoe Machinery Corporation. (See Toothaker, Fred E., assignor.)
United States Chain & Forging Company. (See Bremer, Frederick G., assignor.)
United States Printing & Lithograph Company, The. (See Burgess, Joseph E., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Egloff, G., and Howard, assignors.)
Universal Oil Products Company. (See Huff, Lyman C., assignor.)
Universal Products Company, The. (See Pollock, Robert T., assignor.)
Urbancic, Leopold. (See Summers, Frank, assignor.)
Valle, Pembroke A., Chicago, assignor to B. L. MacGregor, Hollywood, Ill. Golf club. 1,683,639; Sept. 11.
Valentin, Paul, assignor to R. Dreux, Paris, France. Flying machine. 1,684,163; Sept. 11.
Valveless Oil Burner Corporation. (See Stancliffe, Cecil W., assignor.)
Van Hoozer, Cora M., Ioia, Kans. Statuette. Des. 76,332; Sept. 11.
Van Rijswijk, Willem. (See Baumann, A., and van Rijswijk.)
Vattenborg Systems Inc. (See Myres, Robert W., assignor.)
Vickers Limited. (See Ogden, Amos, assignor.)
Vogeltanz, E. L., et al. (See Criner, Harry J., assignor.)
Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Wire fastener. 1,684,120; Sept. 11.
Vom Bruck, Friedrich C., Dusseldorf, assignor, by mesne assignments, to the firm Stanley Works Gesellschaft mit beschränkter Haftung, Velbert, Germany. Universal lock. 1,683,744; Sept. 11.
Von Arco, Georg, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for avoiding reflections of sound inside buildings. 1,684,078; Sept. 11.
Von Kornatzki, Hans H., Ziegenhagen, Post Reets, Germany. Medicinal soap. 1,684,336; Sept. 11.
Waite Carpet Company. (See Brandt, Stella, assignor.)
Walbert, Hans. (See Emmel, K., and Walbert.)
Wallace, R., & Sons Mfg. Co. (See Warren, William S., assignor.)
Walsh, Patrick H., Newton, Mass., assignor to Caro Cloth Corporation, Carolina, R. I. Method of and apparatus for manufacturing textile fleece. 1,683,812; Sept. 11.
Wappler Electric Company. (See Fayer, Charles, assignor.)
Wappler Electric Company. (See Wappler, F. H., Hultman, and Fayer, assignors.)
Wappler, Frederick H., Flushing, G. H. Hultman, Queens Village, and C. Fayer, Flushing, assignors to Wappler Electric Company, Inc., Long Island City, N. Y. Electrosurgical instrument. 1,683,708; Sept. 11.
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,684,208; Sept. 11.
Warren Featherbone Co., The. (See Chamberlain, Frederic W. and E. B., assignors.)
Warren, William S., Meriden, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 76,333; Sept. 11.
Warren, William S., Meriden, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 76,334; Sept. 11.
Watson, George D., Torrance, Calif. Oil-well apparatus. 1,683,745; Sept. 11.
Weiland, Alfred, Neshanic, N. J., H. R. Russell, Douglaston, N. Y., and C. A. Mezger, New Brunswick, N. J., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Alphabetical keyboard punch. 1,684,001; Sept. 11.
Weiller, Paul G., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Radio reception. 1,684,164; Sept. 11.
Weise, Edmund F., Houston, assignor to H. F. Smith, Harris County, Tex. Sealing device. 1,683,640; Sept. 11.
Weldy, Arthur S., Canton, Ohio. Pipe seal. 1,683,746; Sept. 11.
Wells, Walter T., Canton, Ohio. Vanity case. 1,683,851; Sept. 11.
Welsh, Albert E., Lewiston, Idaho. Calendar. 1,683,936; Sept. 11.
Wentzell, Amos W., Salem, N. J. Screen device for casement windows. 1,684,121; Sept. 11.
Wenzel, Karl E., assignor to Rangiertechnische Gesellschaft m. b. H., Hamborn, Germany. Safety contrivance on permanent railway tracks. 1,683,709; Sept. 11.
West, Abe, St. Cloud, Minn. Tobacco-baling press. 1,684,300; Sept. 11.
Western Electric Company. (See Ives, Herbert E., assignor.)
Western Electric Company. (See Maneschi, Egidio E., assignor.)
Western States Machine Company, The. (See Roberts, Eugene, assignor.)
Western Union Telegraph Company, The. (See Dirkes, Robert F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric & Manufacturing Company. (See Allen, Robert C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Atherton, Alfred L., assignor.)

Westinghouse Electric and Manufacturing Company. (See Bethel, C., and McCloskey, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bethel, Claude, assignor.)
Westinghouse Electric & Manufacturing Company. (See Bliziotis, George E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Clark, Earl K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Coates, William A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hill, Leland H., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jungk, Herbert G., assignor.)
Westinghouse Electric & Manufacturing Company. (See King, William R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kreisel, Paul, assignor.)
Westinghouse Electric & Manufacturing Company. (See Miner, Douglas F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mylius, W. G., and Hoeftman, assignors.)
Westinghouse Electric & Manufacturing Company. (See Ronneberger, Fritz, assignor.)
Westinghouse Electric & Manufacturing Company. (See Rutter, Argyle R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaelchlin, Walter, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schramm, Walter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schwendner, A. F., and Myers, assignors.)
Westinghouse Electric & Manufacturing Company. (See Scott, Thomas S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Smith, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Staege, Stephen A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Trumpler, William E., assignor.)
Wheeler, Lawrence N., Monrovia, Calif. Exhaust-gas water heater. 1,683,747; Sept. 11.
Whitaker, Frank P., Rugby, England, assignor to General Electric Company. Dynamo-electric machine. 1,684,253; Sept. 11.
White, Alfred E., Pasedena, Calif. Radio equipment. 1,683,748; Sept. 11.
White, Edwin H., New York, N. Y. Method and construction for storing motor vehicles. 1,683,937; Sept. 11.
White, Raymond E., assignor to Tubal Boiler Company, Chicago, Ill. Liquid-fuel burner and control mechanism therefor. 1,684,079; Sept. 11.
White, S. S., Dental Manufacturing Company, The. (See Hallowell, Clifton C., assignor.)
White, Stephen M. (See Tinker, Herbert R., assignor.)
White, William J., assignor of one-half to W. H. Gilbert and one-half to V. G. Foft, San Francisco, Calif. Razor-blade holder. 1,683,853; Sept. 11.
White, William W., assignor to Standard Fibre Company, Kenneth Square, Pa. Tool box for automobiles. 1,684,002; Sept. 11.
Whitehead, Richard H., assignor to The New Haven Clock Co., New Haven, Conn. Clock case. Des. 76,335; Sept. 11.
Whitney, Fred A., Leominster, Mass. Toilet-paper holder. 1,683,641; Sept. 11.
Whitridge, John C., and G. T. Johnson, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Coupler shank and yoke connection. 1,684,209; Sept. 11.
Wiegner, Simon P., C. W. Davidson, and H. E. Gordon, Los Angeles, Calif. Signal awitch for vehicles. 1,683,852; Sept. 11.
Wildhaber, Ernest. (See Candee, A. H., and Wildhaber.)
Wildhaber, Ernest, and J. Gatyr, Rochester, N. Y. Differential mechanism. 1,683,938; Sept. 11.
Wiley, Samuel, Metuchen, N. J. Aeroplane flare or signal. 1,683,939; Sept. 11.
Wiley, Samuel, Metuchen, N. J. Illuminating aero bomb or flare. 1,683,940; Sept. 11.
Willard, Waldo W. (See Hewlett, E. M., and Willard.)
Williston, Samuel H., Maracaibo, Venezuela. Side-wall sampler. 1,683,642; Sept. 11.
Wilson, James C., Winnipeg, Manitoba, Canada. Heat economizer. 1,684,049; Sept. 11.
Wilt, Harry H., et al. (See Crown, William F., assignor.)
Winslow, Sewell E., Bridgeport, Conn., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y. Alloy. 1,683,749; Sept. 11.
Wired Radio, Inc. (See Weiller, Paul G., assignor.)
Wirfs, E. J., Organization, Incorporated. (See Wirfs, Edward J., assignor.)
Wirfs, E. J., Organization, Inc. (See Wirfs, Edward J., jr., assignor.)
Wirfs, Edward J., assignor to E. J. Wirfs Organization, Incorporated, St. Louis, Mo. Gasket. 1,683,941; Sept. 11.
Wirfs, Edward J., jr., Glendale, assignor to E. J. Wirfs Organization, Inc., St. Louis, Mo. Gasket. 1,683,942; Sept. 11.
Wittemann, Theodore. (See Fisher, John J., assignor.)
Wittmask, Harold S., Erie, Pa. Playing piece. 1,683,643; Sept. 11.
Wood, Frederick W. (See Bent, Q., Barnhart, and Wood.)
Woodard, William B., Forest Hills, N. Y. Locomotive. 1,683,750; Sept. 11.
Woods, Leila P., administratrix. (See Woods, Norman E.)
Woods, Norman E., deceased, Paterson, N. J.; L. P. Woods, administratrix. Motor. 1,684,210; Sept. 11.
Woods, Oliver E. C., Toronto, Ontario, Canada. Oil-burning heater. 1,683,644; Sept. 11.
Woodward, Harry C., et al. (See Becker, Joseph, assignor.)
Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making matches from sheet material. 1,684,165; Sept. 11.
Wright, Lawrence B., A. B. Yates, and A. A. Lease, Lead, S. Dak. Instrument for surveying bore holes. 1,684,337; Sept. 11.
Wright, McKay, Seattle, Wash. Radioantenna. 1,684,003; Sept. 11.
Yale & Towne Manufacturing Company, The. (See Lach, Joseph S., assignor.)
Yates, Arthur B. (See Wright, L. B., Yates, and Lease.)
York Ice Machinery Corporation. (See Bergdoll, John G., assignor.)
Zaiser, William, Rockville Center, N. Y., assignor to The Aeolian Company. Grand piano. Des. 76,336; Sept. 11.
Zerk, Oscar, now by judicial change of name O. U. Zerk, Chicago, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Automatic grease gun and the like. 1,684,080; Sept. 11.
Zerk, Oscar U. (See Zerk, Oscar.)
Zerweck, Werner. (See Herz, R., and Zerweck.)
Zitzmann, George, New York, N. Y., assignor to Automatic Motor Control Corporation. Engine-testing gauge. 1,683,710; Sept. 11.
Zukor, Arnold, New York, N. Y. Combined door fastener and alarm. 1,683,854; Sept. 11.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF SEPTEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive paper or cloth. R. B. Manley. 1,683,623; Sept. 11.
Accordion-locking means. F. Umbriaco. 1,684,119; Sept. 11.
Acid, Manufacturing sulphuric. W. A. Patrick and E. B. Miller. 1,683,694; Sept. 11.
Acids, Manufacture of chlorides of aromatic ortho-hydroxy-carboxylic. E. B. Higgins. 1,684,273; Sept. 11.
Adjustable-length tie. M. Schachter. 1,684,150; Sept. 11.
Advertising apparatus. G. H. Conners. 1,683,760; Sept. 11.
Aeronautics. J. E. Pigeon. 1,684,240; Sept. 11.
Aeroplane. J. C. Elger. 1,684,087; Sept. 11.
Air-bag stripper. R. W. Snyder. 1,683,736; Sept. 11.
Air cleaner, Automobile. C. G. Hawley. 1,684,023; Sept. 11.
Air-cooled block for lining walls. G. Rau. 1,684,329; Sept. 11.
Aircraft, Tail shaft for. A. H. G. Fokker. 1,683,965; Sept. 11.
Airplane. B. Reichelt. 1,683,805; Sept. 11.
Airplane floats, Construction for. G. Loening. 1,684,187; Sept. 11.
Airship, Gas-inflated. W. E. Dörr. 1,683,764; Sept. 11.
Air-supply system. O. L. Ingram. 1,684,031; Sept. 11.
Alarm system. R. E. Joron. 1,684,032; Sept. 11.
Alkali cellulose and cellulose ethers, Preparation of. L. Lilienfeld. 1,683,682; Sept. 11.
Alloy. R. Franks and B. E. Field. 1,684,131; Sept. 11.
Alloy. S. E. Winslow. 1,683,749; Sept. 11.
Anchor, Rail. H. G. Warr. 1,684,208; Sept. 11.
Antenna. H. M. Brown. 1,684,009; Sept. 11.
Antenna. R. C. Clinker. 1,684,202; Sept. 11.
Antenna. A. N. Goldsmith. 1,683,773; Sept. 11.
Antenna array, Directive. J. S. Stone. 1,683,739; Sept. 11.
Antenna for radiotelegraphy. L. Espenschied. 1,683,716; Sept. 11.
Antenna regulator, Automatic. W. W. Brown. 1,684,261; Sept. 11.
Antenna regulator, Automatic. J. E. Love. 1,684,235; Sept. 11.
Artificial tree. E. H. Trimpe. 1,683,637; Sept. 11.
Ashes and other materials, Apparatus for handling. P. H. Raun. 1,683,917; Sept. 11.
Asphalt and similar material, Apparatus for handling. W. H. Cady and C. E. Rahr. 1,683,604; Sept. 11.
Auger. F. Summers. 1,684,291; Sept. 11.
Automobile heater. S. A. Snell. 1,684,118; Sept. 11.
Automobile jack, Mounted. G. Pullets. 1,683,987; Sept. 11.
Automobile seat, Resilient. C. H. Gunn. 1,683,885; Sept. 11.
Automobile signal. C. E. Goheen. 1,683,663; Sept. 11.
Avoiding reflections of sound inside a building, Arrangement for. G. von Arco. 1,684,078; Sept. 11.
Awning fixture, Adjustable. S. Kirschberg. 1,683,903; Sept. 11.
Back rest for chairs, Adjustable. P. W. Olson. 1,684,106; Sept. 11.
Bag: *See*—
Closing bag. Shoe and locker bag.
Golf bag. Utility bag.
Paper bag.
Bait, Artificial. T. Teshima. 1,683,933; Sept. 11.
Baking and roasting appliance. E. Hager. 1,683,611; Sept. 11.
Balancing means for vehicle wheels. W. J. Starling. 1,684,290; Sept. 11.
Baling press, Tobacco-. A. West. 1,684,300; Sept. 11.
Ballast resistances, Constructing. S. Ruttenberg. 1,684,204; Sept. 11.
Bank, Savings. C. W. Scott. Des. 76,327; Sept. 11.
Barrel and sand trap, Combination working. E. L. Boyd and J. T. Johnson. 1,684,295; Sept. 11.
Basket or box, Berry. E. Craig. 1,683,761; Sept. 11.
Battery-reenforcing handle. W. E. Holland. 1,684,277; Sept. 11.
Bearing. W. J. Chlevitz. 1,683,593; Sept. 11.
Bearing. C. L. Daun and P. E. Keller. 1,683,608; Sept. 11.
Bearing, Antifriction. O. Henselman. 1,684,352; Sept. 11.
Bearing, Railway journal. C. T. Ripley. 1,684,146; Sept. 11.
Bearing, Thrust. R. L. Dennison. 1,684,012; Sept. 11.
Bed, Folding. F. Conhaim and L. Sweningson. 1,683,958; Sept. 11.
Belt. W. R. Mulock. 1,683,691; Sept. 11.
Belt drive for refrigerating machines. J. O. Carrey. 1,683,955; Sept. 11.
Belt driving mechanism. G. R. Pennington. 1,684,069; Sept. 11.
Belt-lacing tool. G. Honey. 1,683,825; Sept. 11.
Belt, Spirally-wound metallic. D. P. Rankin. 1,683,697; Sept. 11.
Binder, Loose-leaf. H. S. Horn. 1,683,975; Sept. 11.
Binder, Loose-leaf. J. L. McMillan. 1,684,373; Sept. 11.
Block: *See*—
Building block. Hoisting block.
Bloom shears. J. Hahn. Re17,079; Sept. 11.
Board: *See*—
Ironing board.
Boiler: *See*—
Steam boiler.
Boiler. A. M. Merizanoff. 1,683,836–7; Sept. 11.
Boiler for utilizing fine coal. J. Pollock. 1,684,201; Sept. 11.
Bolster. F. E. Arndt. 1,684,302; Sept. 11.
Bomb or flare, Illuminating aero. S. Wiley. 1,683,940; Sept. 11.
Bottle. B.d'Escayrac. Des. 76,291; Sept. 11.
Bottle-cap receiver. J. H. McDonald. 1,684,285; Sept. 11.
Box: *See*—
Ceiling box. Stamp box.
Box. L. W. Halk. 1,684,091; Sept. 11.
Box. F. T. Schleicher. Des. 76,325–6; Sept. 11.
Box blank or similar article. L. H. Gebhart. Des. 76,296; Sept. 11.
Bracket or article of analogous nature, Wall. A. R. Krause. Des. 76,311; Sept. 11.
Brake: *See*—
Vehicle brake.
Brake. E. G. Sprung. 1,684,156; Sept. 11.
Brake for gyratory centrifugals. E. Roberts. 1,684,368; Sept. 11.
Bread-basket rack. B. G. Howe. 1,683,675; Sept. 11.
Brine circulator. J. G. Bergdoll. 1,683,940; Sept. 11.
Bringing and holding heavy welding pieces in a suitable position during the welding process, Device for. E. O. Edelmann. 1,684,128; Sept. 11.
Broach mechanism. J. Oakley and H. D. Croft. 1,684,139; Sept. 11.
Broach mechanism. J. L. Perkins and H. D. Croft. 1,684,140; Sept. 11.
Brooder, chicken. A. Sjostrom. 1,683,926; Sept. 11.
Brush. A. L. Hoffman. 1,683,618; Sept. 11.
Brush, Demountable. L. L. Mosquera. 1,684,358; Sept. 11.
Brush for cleaning artificial dentures. M. J. Barchfeld. 1,683,947; Sept. 11.
Buckle, Belt. R. F. Eichner. Des. 76,292; Sept. 11.
Building block. H. F. Adams. 1,684,050; Sept. 11.
Building construction. A. Black. 1,683,600; Sept. 11.
Building construction. J. E. De Baun. 1,684,127; Sept. 11.
Building, Portable. F. Förster. 1,683,966; Sept. 11.
Bumper, Automobile. F. G. Bremer. 1,684,259; Sept. 11.
Bumper, Automobile. W. E. Hart. 1,684,093; Sept. 11.
Bumper for sliding doors. J. O. Nyman. 1,683,793; Sept. 11.
Burner: *See*—
Oil burner.
Burner and control mechanism therefor, Liquid-fuel. R. E. White. 1,684,079; Sept. 11.
Burning fine fuel in suspension, Apparatus for. J. Pollock. 1,684,200; Sept. 11.
Bus, Automotive. R. W. Bailey. 1,684,303; Sept. 11.
Butter from buttermilk, Recovering. A. L. Rushton. 1,683,729; Sept. 11.
Butterfat from buttermilk and buttermilk whey, Separation of. A. L. Rushton. 1,683,728; Sept. 11.
Butter-print machine. C. and H. H. Doering. 1,683,873; Sept. 11.
Button board and process of manufacture. A. L. Clapp. 1,683,605; Sept. 11.
Cabinet. F. G. Hodell. 1,683,891; Sept. 11.
Cable, Lead-sheathed telephone. E. Schürer. 1,684,368; Sept. 11.
Cable telegraphy and the like and circuit therefor. W. S. Smith, N. W. McLachlan, and W. G. R. Jacob. 1,684,248; Sept. 11.
Cage, Guard. E. A. Baker. 1,684,122; Sept. 11.
Calendar. A. E. Welsh. 1,683,936; Sept. 11.
Can: *See*—
Dredge can. Oil can.
Candle cup and bobèche, Combined. A. R. Krause. Des. 76,314; Sept. 11.
Carburetor. J. J. Crain. 1,684,085; Sept. 11.
Carburetor. R. F. Ensign. 1,684,055; Sept. 11.
Carburetor. F. Lioud. 1,684,355; Sept. 11.

Carburetor. J. S. Salva. 1,684,246; Sept. 11.
Carburetor. W. P. Taylor. 1,683,634; Sept. 11.
Car construction, Railway-. A. Campbell. 1,684,010; Sept. 11.
Car-coupling mechanism. W. Kelso. 1,683,901; Sept. 11.
Car seat. W. S. Adams. 1,684,301; Sept. 11.
Car seat. J. A. Brooks. 1,684,306; Sept. 1.
Card, Coin. G. Harmouth. 1,683,971; Sept. 11.
Card, Metallic playing. M. Maennlein. 1,684,372; Sept. 11.
Card system, Horizontal. V. Duspiva. 1,683,765; Sept. 11.
Carriage for derricks, Safety. C. E. Thomas. 1,684,251; Sept. 11.
Carton. B. E. Richardson. 1,684,244; Sept. 11.
Cartridges, Safety device for blasting or explosive. E. Karolius. 1,683,900; Sept. 11.
Case: *See*—
Show case. Vanity case.
Cash register. T. M. Butler. Des. 76,286; Sept. 1.
Casing, Light. G. H. Townsend. Des. 76,331; Sept. 11.
Castings, Making smooth. S. T. G. Smith. 1,683,630; Sept. 11.
Castings with a low carbon content, Production of iron. K. Emmel and H. Walbert. 1,683,714; Sept. 11.
Cathode device, Hot-. W. D. Coolidge. 1,684,263; Sept. 11.
Ceiling box. W. T. Ruete. 1,684,245; Sept. 11.
Chain coupling, Suspension-. P. J. Knoblock. 1,683,904; Sept. 11.
Chair. E. N. Spear. Des. 76,330; Sept. 11.
Chair or similar article of furniture. A. A. See. Des. 76,337; Sept. 11.
Chandelier body or article of analogous nature. A. R. Krause. Des. 76,313; Sept. 11.
Chandelier or article of analogous nature. A. R. Krause. Des. 76,310; Sept. 11.
Chart, Analysis. H. E. Ingram. 1,683,827; Sept. 11.
Chart and viewing the same, Indicating. C. Berger. 1,684,212; Sept. 11.
Chopper: *See*—
Cotton chopper.
Cigarette box and match container, Combined. A. R. Graham. 1,683,664; Sept. 11.
Circuit breaker. C. Aalborg. 1,683,589; Sept. 11.
Circuit control system, Electric. J. R. Price. 1,684,071; Sept. 11.
Circuit controller, Automatic. A. R. Stevenson, jr. 1,684,249; Sept. 11.
Circuit cooling for electrical machines, Closed-. A. Baumann and W. van Rijswijk. 1,683,591; Sept. 11.
Circuit interrupter and socket. M. H. Shoenberg and L. Schon. 1,683,992; Sept. 11.
Circulator and air moistener for internal-combustion engines, Water. A. Thomson. 1,683,811; Sept. 11.
Clamp: *See*—
Column clamp. Meat clamp.
Cleaner: *See*—
Air cleaner. Flue cleaner.
Clock case. R. H. Whitehead. Des. 76,335; Sept. 11.
Closet: *See*—
Water-closet.
Closing bag. P. Gangler. 1,683,771; Sept. 11.
Closure operator for sliding doors. H. W. Shonnard. 1,684,115; Sept. 11.
Closure, Receptacle. F. C. Clement. 1,684,214; Sept. 11.
Cloth board and similar article. H. B. Smith. 1,683,707; Sept. 11.
Clutch construction. R. Murphy. 1,683,624; Sept. 11.
Clutch, Intermittent ball. J. M. Dayton. 1,684,172; Sept. 11.
Coating machine. F. M. La Chapelle. 1,683,680; Sept. 11.
Cock and relief valve, Combined drain. H. S. Humphrey. 1,684,097; Sept. 11.
Cocks, Lock for service. M. M. Belote. 1,683,649; Sept. 11.
Coding and decoding apparatus and code-changing device therefor. S. Hole. 1,684,028; Sept. 11.
Coffee-making device. C. T. Long. 1,683,786; Sept. 11.
Coil, Refrigerating. S. C. Bloom. 1,684,083; Sept. 11.
Coin-controlled device. G. B. Smith. 1,683,995; Sept. 11.
Colonic mobile unit. R. W. Myres. 1,683,723; Sept. 11.
Column clamp. E. L. Soule. 1,683,929; Sept. 11.
Commutator motor, Alternating-current. D. M. Bliss. 1,683,601; Sept. 11.
Concrete and transporting the same, Mixing. K. R. Schuster. Re17,082; Sept. 11.
Concrete structures, Reenforcement for. R. C. Olmsted. 1,684,195; Sept. 11.
Condenser. E. A. Johnsen. 1,684,227; Sept. 11.
Condenser. J. H. Smith. 1,684,154; Sept. 11.
Contactor, Oriented electrical. P. E. Edelman. 1,683,819; Sept. 11.
Container and heater, Food. W. G. Hayne. 1,683,889; Sept. 11.
Container, Dispensing. S. A. Merrin. 1,684,188; Sept. 11.
Container, Filling. W. A. Snow. 1,683,996; Sept. 11.
Container for disinfectants. R. E. Naumburg. 1,683,792; Sept. 11.
Container for toilets, Auxiliary. W. M. Bell. 1,683,754; Sept. 11.
Container such as barrel, drum, or the like. A. Mauser. 1,683,788; Sept. 11.
Container, Waterproof. W. A. Ramsey. 1,684,289; Sept. 11.
Containers, Device for handling. W. L. Gibson. 1,683,772; Sept. 11.
Control device, Automatic. T. F. Baily. 1,683,856; Sept. 11.
Control for liquids, Air-governed destination. C. W. Stanclige. 1,683,737; Sept. 11.
Control system. E. F. Bliss. 1,684,256; Sept. 11.
Control system. W. R. Schofield, jr. 1,683,809; Sept. 11.
Controlling mechanism for wringers and other machinery. H. J. Criner. 1,684,265; Sept. 11.
Controlling the positioning of devices from a distance, Apparatus for. N. E. Methlin. 1,684,042; Sept. 11.
Conveyer. W. M. Brown. 1,683,643; Sept. 11.
Cooker. E. E. Cary. 1,684,297; Sept. 11.
Cooling and fire-prevention apparatus for motion-picture projectors. B. J. Berg. 1,684,304; Sept. 11.
Cooling system, Engine. C. P. Brockway. 1,683,602; Sept. 11.
Coop, Knockdown. J. H. Lipscomb. 1,684,135; Sept. 11.
Coring device. R. B. Grainger. 1,684,089; Sept. 11.
Cotton chopper. J. H. Etheredge. 1,683,768; Sept. 11.
Coupler shank and yoke connection. J. C. Whitridge and G. T. Johnson. 1,684,209; Sept. 11.
Coupling: *See*—
Chain coupling. Shaft coupling.
Cover for books, binders, and the like. P. O. Unger. 1,684,335; Sept. 11.
Cover, Grave. W. Buel. 1,683,654; Sept. 11.
Cover, Manhole. J. P. Heil. 1,683,823; Sept. 11.
Cover, Removable card-table. M. S. and J. Diamond. 1,684,173; Sept. 11.
Cracking oil, Apparatus for. G. Egloff and W. R. Howard. 1,683,766; Sept. 11.
Cream separator. J. A. Frisk. 1,683,882; Sept. 11.
Crossing signal. J. A. Morrison. 1,683,690; Sept. 11.
Cultivator. A. D. Gallagher. 1,684,218; Sept. 11.
Cup dispenser. F. L. Borchert. 1,683,950; Sept. 11.
Curtain holdback. L. V. Lavell. Des. 76,315; Sept. 11.
Curtain support, Bath-. H. Madison. 1,684,284; Sept. 11.
Cutter: *See*—
Pipe cutter.
Cutting die. W. D. Timmons. 1,683,934; Sept. 11.
Decolorizing, clarifying, and purifying petroleum oils. H. L. Kauffman and I. A. Clark. 1,684,035; Sept. 11.
Decorated tube. A. J. Rowan. Des. 76,323; Sept. 11.
Delivering mechanism for bolt-trimming machines. W. L. Clouse. 1,683,957; Sept. 11.
Dental instrument. O. H. Pieper and C. R. Meitzler. 1,684,143; Sept. 11.
Dental instrument. G. W. Todd. 1,684,252; Sept. 11.
Dentures, Apparatus for producing. M. M. Kohn. 1,683,978; Sept. 11.
Depth charge, bomb, projectile, and other explosive bodies. A. Ogden. 1,683,692; Sept. 11.
Desk, Sorting and binding. E. K. Ohm. 1,683,795; Sept. 11.
Dial for radio adjustments, Vernier. A. Peteler. 1,683,845; Sept. 11.
Die: *See*—
Cutting die. Pottery-forming die.
Die-casting machine. L. H. Morin. 1,683,721; Sept. 11.
Dielectric materials, Method of and apparatus for determining the energy losses in. E. E. Maneschi. 1,683,833; Sept. 11.
Differential mechanism. E. Wildhaber and J. Gstyr. 1,683,938; Sept. 11.
Di Naphthyl-di carboxylic acids and making same. R. Herz and W. Zerweck. 1,684,272; Sept. 11.
Direction-indicator switch for automobiles. W. J. Reading. 1,683,988; Sept. 11.
Disconnecting switch. F. Ronneberger. 1,684,148; Sept. 11.
Disk wheel and making same. A. M. Stanley. 1,683,738; Sept. 11.
Dispensing apparatus. A. L. Boggs. 1,684,258; Sept. 11.
Display apparatus, Mechanical. A. M. Schick. 1,683,990; Sept. 11.
Display device. W. Pettit. 1,684,198; Sept. 11.
Display fixture, Bridge-lamp. A. G. Anderson. Des. 76,278; Sept. 11.
Display stand. R. O. Berke. 1,684,340; Sept. 11.
Display stand. J. E. Burgess. 1,684,124; Sept. 11.
Display stand. B. B. Geyer. Des. 76,297; Sept. 11.
Distributor for hydrocarbon distillation systems, Distillate. F. M. Hess. 1,683,778; Sept. 11.
Distributor, Lubricator, J. J. Hennessy. 1,683,616; Sept. 11.
Doffing apparatus for spinning, doubling, twisting, and like machines. S. Moorhouse. 1,683,939; Sept. 11.
Doorcheck. F. K. Eastman. 1,683,713; Sept. 11.
Draft rigging. B. W. Kadel. 1,683,899; Sept. 11.
Drafting implement, Adjustable. W. E. Howden. 1,684,224; Sept. 11.
Drawing-board attachment. A. P. Jacob. 1,684,353; Sept. 11.
Dredge can. S. H. Lindgren. 1,683,832; Sept. 11.
Drill: *See*—
Tool drill.
Drill boxing. L. C. Hardsocg. 1,684,351; Sept. 11.
Drill or mortising machine R. E. De Walt. 1,683,763; Sept. 11.
Driving mechanism for vehicles. C. O. Guernsey. 1,684,314; Sept. 11.
Driving mechanism for washing machines and wringers, Combined. H. J. Criner. 1,683,961; Sept. 11.
Drying rack, Clothes-. C. F. Smith. 1,684,153; Sept. 11.
Drying system. H. V. Mooney and W. W. Hicks. 1,683,984; Sept 11.
Dust collector. J. C. Moon. 1,684,067–8; Sept. 11.

Dye and preparing the same, Azo. E. Hoffa and E. Fischer. 1,684,275; Sept. 11.
Dyeing. P. Mijer. 1,683,687; Sept. 11
Dyestuff and producing same, Water-soluble. O. Siebert. K. Thiess, B. Schöner, R. Schmidlin, W. Benade, and B. Deicke. 1,684,330; Sept. 11.
Dyestuff and producing the same, Polyarylamine. K. Thiess, B. Deicke, and R. Schmidlin. 1,684,331; Sept. 11.
Dyestuff from dianthraquinonylamine-phenanthrenequinone, Vat. W. Melg and A. Job. 1,684,327; Sept. 11.
Ear guard. C. M. Smyth. 1,683,928; Sept. 11.
Earring with clamping bow. H. Fetser. 1,684,348; Sept. 11.
Educational device. F. J. Sewall. 1,683,733; Sept. 11.
Egg-preserving compound. H. Stanley. 1,683,631; Sept. 11.
Electric control apparatus. A. Haller. 1,684,315; Sept. 11.
Electric machine, Dynamo-. H. G. Jungk. 1,683,676; Sept. 11.
Electric machine, Dynamo-. F. P. Whitaker. 1,684,253; Sept. 11.
Electric plug. W. Ile. 1,684,183; Sept. 11.
Electric ship propulsion, System of. C. Macmillan. 1,684,236; Sept. 11.
Electric switch. W. N. Dunn. 1,684,016; Sept. 11.
Electric switch. D. F. Jones. 1,684,280; Sept. 11.
Electrical heater. W. K. Tavender. 1,683,740; Sept. 11.
Electrical outlet. S. M. Traubitz. 1,684,161; Sept. 11.
Electrical power equipment. M. Rotter. 1,684,073; Sept. 11
Electrolytic cells, Means for replenishing. W. B. Holland. 1,684,276; Sept. 11.
Electron-discharge device. A. Mavrogenis. 1,684,104; Sept. 11.
Elevator-control apparatus. H. W. Shonnard. 1,683,925; Sept. 11.
Engine: *See*—
Heat engine. Oil engine.
Hoisting engine. Turbine engine.
Internal-combustion engine.
Engine for steam heating, Valve. L. P. Hynes. 1,684,225; Sept. 11.
Engine-testing gauge. G. Zitzmann. 1,683,710; Sept. 11.
Engines, Injection device for internal-combustion. E. Schaeren. 1,684,074; Sept. 11.
Engraving machine. W. J. Donovan. 1,684,216; Sept. 11.
Envelope. O. J. Olm. 1,684,105; Sept. 11.
Escapement-controlling mechanism. C. H. Beasley. 1,683,648; Sept. 11.
Ether and making same, Cellulose. L. Lilienfeld. 1,683,831; Sept. 11.
Ethers and alkali cellulose, Making cellulose. L. Lilienfeld. 1,683,681; Sept. 11.
Expansion joint. A. C. Fischer. 1,683,881; Sept. 11.
Extractor: *See*—
Juice extractor. Tap extractor.
Fabric and treating same. C. M. Carson. 1,683,759; Sept. 11.
Fabric handling. D. E. Hennessy. 1,683,777; Sept. 11.
Fan, Automatically-oscillating electric. J. F. Lister and H. W. Smallwood. 1,684,325; Sept. 11.
Fan hanger, Ceiling-. B. C. Rettig. 1,684,144; Sept. 11.
Fastener and alarm, Combined door. A. Zukor. 1,683,854; Sept. 11.
Fastener Belt. M. B. Henry and A. L. Cadenhead. 1,684,271; Sept. 11.
Fastener-inserting machine. M. N. Bray. 1,683,652; Sept. 11.
Fastener, Storm-window. C. Le Mesurier. 1,684,134; Sept. 11.
Fastener, Wire. G. F. Voight. 1,684,120; Sept. 11.
Fastening device for ladders. G. J. Hebner. 1,684,269; Sept. 11.
Feather-cleaning machine. R. W. Krobitzsch. 1,683,905; Sept. 11.
Feed mechanism. J. L. Perkins and H. D. Croft. 1,684,141; Sept. 11
Feeder, Automatic poultry. R. F. Toope. 1,684,334; Sept. 11.
Feeding means for printing machines, Paper-. W. Gegenheimer. 1,683,718; Sept. 11.
Feeding tape and projecting data therefrom. R. F. Dirkes. 1,684,309; Sept. 11.
Filling mechanism. J. Kantor, O. W. Fick, and W. J. Traxel. 1,683,677; Sept. 11.
Film, Motion-picture. M. Kraslavsky. 1,683,830; Sept. 11.
Filter, Lime. C. G. Hawley. 1,684,025; Sept. 11.
Finger ring. S. Grossman. Des. 76,299; Sept. 11.
Firing door. R. T. Horton. 1,683,892; Sept. 11.
Fixture, Centrifugal. C. G. Hawley. 1,684,020; Sept. 11.
Fixture, Filing. A. J. Cichon. 1,684,011; Sept. 11.
Flare or signal, Aeroplane. S. Wiley. 1,683,939; Sept. 11.
Flue cleaner. L. W. Johnson. 1,683,619; Sept. 11.
Fluid-flow meter. W. W. Hamill. 1,684,316; Sept. 11.
Flush-control means for water-closet hoppers. W. U. Griffiths. 1,683,884; Sept. 11.
Fly wheel and centrifugal clutching mechanism therefor, Multiple. J. O. Carrey. 1,683,954; Sept. 11.
Flying machine. P. Valentin. 1,684,163; Sept. 11.
Fuel-control mechanism for internal-combustion engines. E. L. Corman. 1,684,126; Sept. 11.
Fuel product, Atomizable mobile. A. W. Burwell. 1,684,125; Sept. 11.
Fuel to a furnace, Apparatus for feeding powdered. E. Hermsdorf. 1,684,320; Sept. 11.
Fur testing and cutting device. E. Müller. 1,684,359; Sept. 11.
Furnace: *See*—
Open-hearth furnace.
Furnace. S. B. Russell. 1,683,780; Sept. 11.
Furnace arch. C. Duquenne. 1,683,963; Sept. 11.
Fuse with clockwork, Mechanical time. P. Liebergeld. 1,684,354; Sept. 11.
Game. T. E. Cahill. 1,683,860; Sept. 11.
Game, Baseball. A. Meyer. 1,684,189; Sept. 11.
Gasket. E. J. Wirfs. 1,683,941; Sept. 11.
Gasket. E. J. Wirfs, jr. 1,683,942; Sept. 11.
Gauge: *See*—
Engine-testing gauge.
Gauge and thermometer, Combined. O. W. Thompson. 1,683,743; Sept. 11.
Gear. A. H. Candee and E. Wildhaber. 1,683,758; Sept. 11.
Gear-cutting machine. F. W. Jury. 1,684,099; Sept. 11.
Gear, Steam-engine-valve reversing. J. Kindervater. 1,684,228; Sept. 11.
Gears and other objects, Process and apparatus for lapping. A. W. Copland. 1,683,869; Sept. 11.
Gears, brakes, couplings, and the like, Pressure device for friction. R. Erban. 1,683,715; Sept. 11.
Gears, Truing. A. W. Copland and M. I. Mathewson. 1,683,867; Sept. 11.
Glass, Method of and apparatus for polishing. G. E. Howard. 1,684,029; Sept. 11.
Glass, Method of and apparatus for forming plate. G. E. Howard. 1,684,030; Sept. 11.
Glass mold. F. M. Bigelow. 1,683,755; Sept. 11.
Glass, Producing. M. W. Thomas. 1,684,332; Sept. 11.
Golf bag. F. H. Mooney. 1,683,838; Sept. 11.
Golf-bag bottom. H. V. Rau. 1,684,111; Sept. 11.
Golf club. A. B. Horne. 1,684,278; Sept. 11.
Golf club. D. Spittal. 1,683,810; Sept. 11.
Golf club. P. A. Vaile. 1,683,639; Sept. 11.
Golf practicing device. C. H. and E. H. Duffy. 1,683,875; Sept. 11.
Governor, Automatic. E. B. Nowosielski. 1,683,626; Sept. 11.
Governor for internal-combustion engines. D. L. A. Larsonneur. 1,683,720; Sept. 11.
Grain-bin feed. O. F. Aplin. 1,684,338; Sept. 11.
Grease gun and the like, Automatic. O. Zerk. 1,684,080; Sept. 11.
Grinder, Meat and food. E. W. Knowlton. 1,683,679; Sept. 11.
Grinding apparatus. L. R. Heim. 1,683,974; Sept. 11.
Grinding machine. F. P. Brown. 1,683,859; Sept. 11.
Gripping slide for forging machines. W. L. Clonse. 1,683,956; Sept. 11.
Guard, Digit. J. M. Smith. 1,684,076; Sept. 11.
Guard for furniture, Insect. V. D. Humphrey. 1,684,279; Sept. 11.
Gymnastic apparatus, Respiration. H. Gougnard. 1,684,221; Sept. 11.
Hair-curling machine, Electrically-operated. C. Fayer. 1,683,717; Sept. 11.
Hair retainer or comb. L. T. Sawyer. 1,684,362; Sept. 11.
Hammer, Electric. W. C. O'Brien. 1,683,794; Sept. 11.
Hammer handle. W. Edwards. 1,683,878; Sept. 11.
Handle: *See*—
Battery-reenforcing handle. Ski handle.
Hammer handle.
Hanger: *See*—
Fan hanger.
Harness, Baby. A. S. Pickles. 1,684,110; Sept. 11.
Hat-blocking machine, Fur. R. G. Muller. 1,683,790; Sept. 11.
Hauling-in device. C. Rusk. 1,683,922; Sept. 11.
Hay presses, Follower-operating mechanism for. L. J. Tonkelmier and C. Miller. 1,683,935; Sept. 11.
Headlight. S. Suits. 1,683,998; Sept. 11.
Headlight, Dirigible. L. G. Rath. 1,683,802; Sept. 11.
Headlight for automobiles, Dirigible. W. H. Babcock. 1,684,294; Sept. 11.
Heat-control device for ovens. A. G. Sherman, G. Smith, G. H. Ramig, and C. A. Roose. 1,684,205; Sept. 11.
Heat-distributing means. E. Davis. 1,683,607; Sept. 11.
Heat economiser. J. C. Wilson. 1,684,049; Sept. 11.
Heat engine. R. W. Davenport. Re17,078; Sept. 11.
Heater: *See*—
Automobile heater. Oil-burning heater.
Electrical heater. Water heater.
Motor heater.
Heater for internal-combustion engines, Water. J. E. Rohne. 1,683,920; Sept. 11.
Heater units, Making. W. R. King. 1,684,184; Sept. 11.
Heating system, Hot-air. L. Skelding. 1,684,044; Sept. 11.
High chair and cot, Combined baby's. A. T. Gooding. 1,684,058; Sept. 11.
Hinge. L. W. Block. 1,683,814; Sept. 11.
Hinge and jamb construction, Weatherproof concealed. J. Kubelka. 1,684,323; Sept. 11.
Hoisting block. J. W. Kittredge. 1,684,185; Sept. 11.
Hoisting engine, Automotive. C. H. Sheasley. 1,683,784; Sept. 11.

Holder. A. S. Dobbs. 1,684,347; Sept. 11.
Holder and cutter, Thread. W. L. Rathjen. 1,683,803; Sept. 11.
Holder, Automobile license-certificate. O. E. Abbey. 1,683,645; Sept. 11.
Holder, Cigarette. C. M. Bellak. 1,684,005; Sept. 11.
Holder, Flowerpot. J. J. Paull. Des. 76,321; Sept. 11.
Holder for optical lenses. C. C. Clark. 1,683,712; Sept. 11.
Holder for photographs, cards, plates, or similar articles. H. P. Fest. 1,683,880; Sept. 11.
Holder for welding, Work. W. H. d'Ardenne, J. O. Landis, and L. H. Christensen. 1,683,762; Sept. 11.
Holder, Razor-blade. W. J. White. 1,683,853; Sept. 11.
Holder, Toilet-paper. F. A. Whitney. 1,683,641; Sept. 11.
Holding toilet-paper rolls, Device for. C. Moser. 1,684,190; Sept. 11.
Hook: *See*—
Snap hook.
Horseshoe. W. F. Slagle. 1,684,045; Sept. 11.
Hot plate, Electric. W. G. Nordling. 1,684,374; Sept. 11.
Hydrometer chamber. G. A. Smith. 1,683,735; Sept. 11.
Ice cream and making same. J. R. Hatmaker. 1,684,094; Sept. 11.
Ignition apparatus for internal-combustion engines. M. M. Cardellino. 1,684,343; Sept. 11.
Impregnating fabric with substantially permanent fragrance and the product. H. M. Specht. 1,683,849; Sept. 11.
Indicating device. J. E. Mann. 1,683,907; Sept. 11.
Indicating mechanism. J. Lawson. 1,684,101; Sept. 11.
Indicator or prompter for household or other purposes. J. de Bracht. 1,684,346; Sept. 11.
Inductance, Variable. J. C. De Pue. 1,684,013; Sept. 11.
Induction pressure or vacuum furnace. E. F. Northrup. 1,683,986; Sept. 11.
Inhaling device. J. W. McMillan. 1,683,686; Sept. 11.
Injector. S. L. Kneass and I. P. Pedrick. 1,683,783; Sept. 11.
Injector, Automatic. C. W. Barton. 1,683,647; Sept. 11.
Inking attachment for printing machines. L. H. Morse. 1,683,840; Sept. 11.
Instrument, Electrosurgical. F. H. Wappler, G. H. Hultman, and C. Fayer. 1,683,708; Sept. 11.
Insulator. D. F. Miner. 1,684,066; Sept. 11.
Insulator. W. H. Schramm. 1,684,152; Sept. 11.
Insulator, Electrical. J. J. Fischer and W. R. Payne. 1,684,312; Sept. 11.
Interference-reducing means for radio receiving apparatus. R. H. Ranger. 1,683,916; Sept. 11.
Internal-combustion engine. W. Allan. 1,684,293; Sept. 11.
Ironing board. J. Kalayjian. 1,684,034; Sept. 11.
Ironing machine. L. S. Hallowell. 1,683,612; Sept. 11.
Ironing machine. H. F. Tol. 1,684,333; Sept. 11.
Jack: *See*—
Automobile jack. Lifting jack.
Joint: *See*—
Expansion joint. Rail joint.
Juice extractor. C. J. Ulrich. 1,683,850; Sept. 11.
Keyboard punch, Alphabetical. A. Weiland, H. R. Russell, and C. A. Meager. 1,684,001; Sept. 11.
Kiln. H. M. Robertson. 1,683,807; Sept. 11.
Kit, Cantilever. H. L. Kennedy. 1,684,036; Sept. 11.
Kit, Picnic service. E. B. Canfield. 1,683,603; Sept. 11.
Knitted fabrics, Apparatus and method for producing. H. Rubenstein. 1,683,699; Sept. 11.
Knitting machines, Stop motion for. F. Crawford, sr. 1,684,308; Sept. 11.
Ladder. D. W. Boardman. 1,684,123; Sept. 11.
Lamp, Automobile. G. F. Jacob. 1,683,895; Sept. 11.
Lamp-closure plate, Vehicle. F. T. Carr. Des. 76,290; Sept. 11.
Lamp, Electric. E. Turnquist. 1,684,292; Sept. 11.
Lamp for motor vehicles, Head. G. F. Jacob. 1,683,896; Sept. 11.
Lamp, Therapy and infra-red-ray. H. S. Akers. 1,684,081; Sept. 11.
Lantern or article of analogous nature. A. R. Krause. Des. 76,312; Sept. 11.
Latch. J. B. Freysinger. 1,684,217; Sept. 11.
Lathe. C. E. Reed. 1,684,072; Sept. 11.
Leaf turner. G. E. Meyer. 1,684,043; Sept. 11.
Leather, Blank of. H. R. Samstag. Des. 76,324; Sept. 11.
Leather-working machine. G. A. Schettler. 1,683,704; Sept. 11.
Leer construction. H. S. Heichert. 1,683,973; Sept. 11.
Leer, Glass. W. A. Morton. 1,684,239; Sept. 11.
Lifting jack. A. C. Hopkins. 1,684,180–1; Sept. 11.
Light transmitter, Slotting and slitted. J. Kaufmann. 1,683,620; Sept. 11.
Lighter. L. Potter. Des. 76,322; Sept. 11.
Lighter, Cigar and cigarette. H. R. Milan. 1,683,688; Sept. 11.
Lighter, Electrical cigar. M. H. Shoenberg and L. Schon. 1,683,993; Sept. 11.
Lightning arrester and resistance unit, Combined. C. J. Kelloway. 1,683,783; Sept. 11.
Lightning arrester, Impulse. A. L. Atherton. 1,683,590; Sept. 11.
Line control. W. L. Foster. 1,684,367; Sept. 11.
Liquid-dispensing device. J. H. Davis. 1,684,171; Sept. 11.
Liquid-level indicators, Operating means for. T. M. Eynon. 1,683,769; Sept. 11.
Liquids from freezing, System for preventing. E. C. Petsch. 1,684,197; Sept. 11.
Loader. D. S. Barry. 1,683,646; Sept. 11.
Lock: *See*—
Universal lock.
Lock and signaling device, Vehicle. A. E. Paige. 1,683,913; Sept. 11.
Lock housing. C. N. Fairchild. 1,684,311; Sept. 11.
Locking device and seal, Combined. A. D. Summers. 1,683,932; Sept. 11.
Locomotive. W. E. Woodard. 1,683,750; Sept. 11.
Locomotive-driving-box cellar. J. G. Blunt. 1,684,213; Sept. 11.
Locomotive structure. K. S. Howard. 1,683,671–4; Sept. 11.
Locomotive-tender-tank feeder S. Helden. 1,684,319; Sept. 11.
Loud speaker. N. Baldwin. 1,683,946; Sept. 11.
Loud speaker. W. F. Ewald. 1,683,879; Sept. 11.
Lug, Tie. J. A. Lynch. 1,684,136; Sept. 11.
Luggage carrier, table, and bench, Combination. G. O., J. S., and J. C. Mackie. 1,684,039; Sept. 11.
Luminair. P. W. Berry. 1,683,599; Sept. 11.
Luminair. W. A. Dorey and W. A. Ingler. 1,683,609; Sept. 11.
Machine for dispensing paper towels. E. Harralson. 1,683,719; Sept. 11.
Machine for forming helical channels. W. Eisenberg. 1,684,310; Sept. 11.
Machine for forming reenforcement supports. T. H. Eickhoff. 1,683,610; Sept. 11.
Machine for pasting battery grids. E. A. Garlock. 1,683,969; Sept. 11.
Machine for removing scales from fish. E. A. Gallison. 1,683,968; Sept. 11.
Machine for truing gears. A. W. Copland and M. I. Mathewson. 1,683,868; Sept. 11.
Machine for unwrapping tubes. E. F. Maas. 1,683,787; Sept. 11.
Magnetic switch. H. D. James. 1,684,060; Sept. 11.
Mail box. L. Harris. Des. 76,301; Sept. 11.
Marker, Golf-ball. C. R. Long. 1,684,038; Sept. 11.
Match. G. A. Taylor. 1,684,000; Sept. 11.
Match packages, Manufacturing. F. Bovard. 1,683,651; Sept. 11.
Matches from sheet material, Machine for making. C. F. Wright. 1,684,165; Sept. 11.
Mattress-beating machine. J. W. Droll. 1,683,658; Sept. 11.
Measuring and dispensing device. R. V. Graham. 1,684,313; Sept. 11.
Measuring device. T. A. Rich. 1,684,243; Sept. 11.
Measuring instrument. J. Koenigsberger. 1,684,229; Sept. 11.
Measuring instrument, Electrical. R. D. Evans. 1,684,056; Sept. 11.
Measuring instrument, Electrical. P. Kreisel. 1,684,061; Sept. 11.
Measuring instrument, Electrical. D. F. Miner. 1,684,065; Sept. 11.
Measuring instrument, Electrical. W. G. Mylius and C. M. Hoeftman. 1,684,191; Sept. 11.
Meat clamp. J. Hopkinson. 1,684,223; Sept. 11.
Mechanical movement and regulating device. G. A. Boettcher. 1,683,650; Sept. 11.
Meter: *See*—
Fluid-flow meter. Watthour meter.
Type flow meter.
Microphone system. G. E. Bliziotis. 1,684,053; Sept. 11.
Mining machine. C. F. Osgood. 1,684,375; Sept. 11.
Mirror and support, Combined. S. U. Caron. Des. 76,289; Sept. 11.
Miter jack and coping cutter. W. H. Greenfield. 1,684,090; Sept. 11.
Mold: *See*—
Glass mold.
Mold. J. C. Norwood. 1,684,360; Sept. 11.
Mold-jarring device. J. R. Dunbeck. 1,684,174; Sept. 11.
Mop. P. Brown. 1,683,816; Sept. 11.
Mop and wringer, Combined. W. Turner. 1,683,638; Sept. 11.
Mop head. P. Brown. 1,683,817; Sept. 11.
Mop head and wringer, Combined. O. Carlson. 1,683,655; Sept. 11.
Motor: *See*—
Commutator motor. Outboard motor.
Motor. N. E. Woods. 1,684,210; Sept. 11.
Motor-control system. C. Schiebeler. 1,684,247; Sept. 11.
Motor controller. W. S. H. Hamilton. 1,684,267; Sept. 11.
Motor heater. L. B. Sterling. 1,684,157; Sept. 11.
Motor support. P. E. Keller. 1,683,622; Sept. 11.
Muffler and heater, Combined. W. A. Kysor. 1,684,186; Sept. 11.
Musical instruments, Tensioning device for metal strings for. J. J. Fisher. 1,684,057; Sept. 11.
Music-leaf turner. W. E. Lahti. 1,684,283; Sept. 11.
Nut. H. W. Connell. 1,684,215; Sept. 11.
Nut, Cap. J. W. Hughes. 1,684,096; Sept. 11.
Nuts, Making. P. H. McCain. 1,684,238; Sept. 11.
Oil burner. R. H. Smith and C. B. Meyers. 1,684,288; Sept. 11.
Oil-burning heater. O. E. C. Woods. 1,683,644; Sept. 11.
Oil can. A. F. Strafus. 1,683,997; Sept. 11.
Oil engine. O. A. Banner. 1,683,752; Sept. 11.
Oil reclaimer. A. L. Henny. 1,684,270; Sept. 11.

Oil-well apparatus. G. D. Watson. 1,683,745; Sept. 11.
Oils, Refining. S. Tijmstra. 1,684,159; Sept. 11.
Oiler and ventilation, Rotary. C. Bethel and F. W. McCloskey. 1,684,168; Sept. 11.
Oiler, Rotary. C. Bethel. 1,684,341; Sept. 11.
Oiler, Rotary. G. M. Eaton. 1,684,175; Sept. 11.
Open-hearth furnace, Regenerative. S. J. Cort. 1,683,656; Sept. 11.
Ores, Flotation of. A. H. Ney. 1,683,724; Sept. 11.
Outboard motor. F. T. Irgens. 1,683,893; Sept. 11.
Outlet-box construction. G. C. Thomas, jr. 1,683,742; Sept. 11.
Packaging mechandise for shipment. D. Nelson. 1,683,843; Sept. 11.
Packing doubled sheets and plates, Apparatus for. A. R. McArthur. 1,683,982; Sept. 11.
Padlock. J. A. Muzzio. 1,683,985; Sept. 11.
Pants, Baby. M. E. Smith. 1,684,046; Sept. 11.
Paper bag. J. W. Taggart. 1,683,632; Sept. 11.
Paste, Waterproofing. G. B. Dyde. 1,684,086; Sept. 11.
Pattern mechanism for knitting machines. N. J. Perry. 1,683,798; Sept. 11.
Pedograph and metatarsal-pad locator. J. L. Barth. 1,684,339; Sept. 11.
Pen and watchcase, Combined fountain. A. Grabelsky. Des. 76,298; Sept. 11.
Pen, Recording. G. B. Ireland. 1,683,828; Sept. 11.
Percolator. C. P. Randolph. 1,684,242; Sept. 11.
Perforator, Casing. M. S. Black. 1,683,858; Sept. 11.
Phantograph. W. K. Cadman. 1,683,952; Sept. 11.
Phase-regulating system. H. Nyquist. 1,683,725; Sept. 11.
Phenol-formaldehyde condensation products, Preparing. G. Petroff and P. Shestakoff. 1,684,142; Sept. 11.
Phonodyne. E. Hopkins. 1,684,129; Sept. 11.
Phonograph. I. Hosoi. 1,683,670; Sept. 11.
Phonographs, Automatic stop for electrically-driven. J. Brandstetter. 1,684,084; Sept. 11.
Photographic-print-drying apparatus. J. S. Greene. 1,683,883; Sept. 11.
Piano, Grand. W. Zaiser. Des. 76,336; Sept. 11.
Pictures transmitted electrically, Reproducing. H. E. Ives. 1,683,894; Sept. 11.
Pile-cutting machine. C. A. Robinson. 1,684,113; Sept. 11.
Pilot for pump plungers, Detachable. G. R. Livergood. 1,683,683; Sept. 11.
Pipe. J. T. Coyne. 1,683,959; Sept. 11.
Pipe cutter. C. C. Neblett. 1,683,912; Sept. 11.
Pipe puller. C. R. Edwards. 1,684,018; Sept. 11.
Pipe seal. A. S. Weldy. 1,683,746; Sept. 11.
Piston and connecting rod testing and aligning machine. G. E. Holton. 1,684,321; Sept. 11.
Placard, Tank-car. W. T. Taylor and C. M. Gidley. 1,684,048; Sept. 11.
Planter. H. E. Altgelt. 1,684,211; Sept. 11.
Plastering machine. F. S. Mloton and L. H. Guerin. 1,684,357; Sept. 11.
Plate-steel wicket gate for turbines. G. A. Jessop. 1,683,781; Sept. 11.
Platform, Elevator. J. Rice. Re17,080; Sept. 11.
Playing piece. H. S. Wittmaak. 1,683,643; Sept. 11.
Plug, Boiler. E. K. Pierce. 1,683,726; Sept. 11.
Plug, Bridging. R. D. Fisher and E. M. Reardon. 1,684,266; Sept. 11.
Plug for electric-light sockets. H. A. Austin. 1,684,166; Sept. 11.
Polisher, Watch jewel-setting. H. Curtis. 1,683,871; Sept. 11.
Potato hiller. J. E. Durepo. 1,684,017; Sept. 11.
Pottery-forming die. J. Andronowicz. 1,683,855; Sept. 11.
Power plant. R. C. Allen. 1,684,082; Sept. 11.
Preheater, Air. C. S. Reed. 1,683,804; Sept. 11.
Preheater for type and lead casting machines. R. J. Roberts. 1,684,112; Sept. 11.
Preserving wood and wood preservative. G. Gunn. 1,684,222; Sept. 11.
Press: *See*—
Baling press.
Pressing machine. G. W. Johnson. 1,683,897; Sept. 11.
Pressing or punching machine. G. Brodsky. 1,684,296; Sept. 11.
Pressure-operated device, Fluid-. T. S. Miller. 1,684,063; Sept. 11.
Pressure tank, Fluid-. W. A. Coates. 1,683,595; Sept. 11.
Printing machine. J. I. Haase. 1,683,774; Sept. 11.
Protecting device, Bank-. J. Platt. 1,683,800; Sept 11.
Protective device. H. A. Keiner. 1,683,977; Sept. 11.
Puller: *See*—
Pipe puller. Wheel puller.
Valve-seat puller.
Pulp beater. L. M. Avenson. 1,683,597; Sept. 11.
Pulverizing machine. A. M. Read. 1,683,627; Sept. 11.
Pump. W. F. Crown. 1,683,962; Sept. 11.
Pump, Air-lift. H. M. Staggs. 1,683,930; Sept. 11.
Pump for lubricators or the like. J. J. Hennessy. 1,683,617; Sept. 11.
Pump, Gasoline. E. E. Eickmeyer. 1,684,130; Sept. 11.
Pump, Rotary. S. Hinds. 1,684,274; Sept. 11.
Pump, Rotary. E. B. Talt. 1,683,633; Sept. 11.
Punch presses, Attachment for. G. H. Pickhard. 1,683,799; Sept. 11.
Purifier, Steam. C. G. Hawley. 1,684,024; Sept. 11.
Purifying water, Method of and apparatus for. C. Hülsmeyer. 1,683,780; Sept. 11.
Putter attachment. S. P. Nemeth. 1,684,192; Sept. 11.
Racing device, Amusement. H. Pitt. 1,684,199; Sept. 11.
Rack: *See*—
Bread-basket rack. Rod rack.
Drying rack.
Radiator core. J. D. Harris. 1,683,821; Sept. 11.
Radiator, Gas-heated steam. J. F. Firth. 1,684,371; Sept. 11.
Radiator inclosure. J. Fitzpatrick. Des. 76,294; Sept. 11.
Radioantenna. McK. Wright. 1,684,003; Sept. 11.
Radiocoil. H. D. Currier. 1,683,606; Sept. 11.
Radio equipment. A. E. White. 1,683,748; Sept. 11.
Radiophone and phonograph, Combined. R. G. French. Re17,081; Sept. 11.
Radio receiving system. W. T. Powell. 1,684,361; Sept. 11.
Radioreception. P. G. Weiller. 1,684,164; Sept. 11.
Radius rod for motor vehicles. L. M. H. Schuman. 1,683,923; Sept. 11.
Rail joint. R. N. Doody. 1,683,874; Sept. 11.
Railway tie. N. Hill. 1,683,824; Sept. 11.
Range, Gas. E. R. Methudy. Des. 76,317–18; Sept. 11.
Range vent. F. F. Forshee. 1,684,008; Sept. 11.
Rat guard, Ship. G. Hansen. 1,683,615; Sept. 11.
Receiver separator. C. G. Hawley. 1,684,022; Sept. 11.
Receiving system, Electromagnetic wave. O. C. Roos. 1,683,847; Sept. 11.
Receptacle closure. C. D. Harrison and P. D. Lindsey. 1,683,888; Sept. 11.
Recovery of waste gases in the production of sulphite pulp. G. A. Richter. 1,683,628; Sept. 11.
Reel: *See*—
Wire reel.
Refrigerating apparatus. S. Otto. 1,684,196; Sept. 11.
Refrigerating units, Shield for. R. A. Riek. 1,683,919; Sept. 11.
Refrigerator lining and method of making. R. A. Riek. 1,684,145; Sept. 11.
Register sheet for printing presses and the like. C. Lingner. 1,684,324; Sept. 11.
Regulator: *See*—
Antenna regulator. Voltage regulator.
Relay, Alternating-current. L. H. Peter. 1,683,696; Sept. 11.
Reproducing position. E. M. Hewlett and W. W. Willard. 1,684,132; Sept. 11.
Reproducing position. A. H. Mittag. 1,684,137; Sept. 11.
Reproducing position. S. P. Nixdorff. 1,684,138; Sept. 11.
Reproducer. H. M. Larson. 1,684,133; Sept. 11.
Resilient wheel. H. C. Gibson. 1,684,219; Sept. 11.
Resin and making the same, Artificial. F. Seebach. 1,683,701; Sept. 11.
Resins, Purifying phenol formaldehyde. F. Seebach. 1,683,702; Sept. 11.
Resinous composition of matter and making same. A. E. Maze. 1,683,835; Sept. 11.
Rod rack. J. C. Bouslog. 1,684,008; Sept. 11.
Rolling thin sections. J. W. Smith. 1,684,206; Sept. 11.
Roof ventilator. C. G. Hawley. 1,684,026; Sept. 11.
Roofing, Roll. A. A. Griswold. 1,684,179; Sept. 11.
Rubber articles, Manufacturing. R. F. Kinsley. 1,684,100; Sept. 11.
Rubber composition. C. H. Campbell. 1,683,862–3; Sept. 11.
Rubber composition and process relating thereto. C. H. Campbell. 1,683,864; Sept. 11.
Rubber-strip-cutting machine. C. O. Strom and H. M. Nelson, jr. 1,684,158; Sept. 11.
Rug. S. Brandt. Des. 76,284; Sept. 11.
Saddle for the tables of thread-stitching machines. U. Bischof. 1,684,342; Sept. 11.
Safety contrivance on permanent railway tracks. K. E. Wenzel. 1,683,709; Sept. 11.
Safety device. P. J. O'Sullivan. 1,683,093; Sept. 11.
Safety razor, hair trimmer, and comb, Combined. B. Kwartin. 1,683,980; Sept. 11.
Salt and pepper shaker or similar article. J. W. Jennings. Des. 76,303–9; Sept. 11.
Sash construction, Window-. L. Schugerl. 1,683,991; Sept. 11.
Sawyer's indicator for swamill log carriages. F. C. Mavis and G. B. Sampair. 1,683,909; Sept. 11.
Scale casing. H. A. Hadley. Des. 76,300; Sept. 11.
Scale, Counter. H. M. Cameron. 1,683,861; Sept. 11.
Screen: *See*—
Window screen.
Screen device for casement windows. A. W. Wentzell. 1,684,121; Sept. 11.
Screen for windows of automobiles. L. B. Hinman. 1,684,027; Sept. 11.
Screening apparatus. F. W. Brackett. 1,684,305; Sept. 11.
Screw-driving machine. G. C. Brown and G. F. McNulty. 1,683,815; Sept. 11.
Scrubber, Tooth. J. Chandler. 1,683,866; Sept. 11.
Sealing device. E. F. Weise. 1,683,640; Sept. 11.
Seat: *See*—
Automobile seat. Car seat.
Seats and the like, Back for automobile. S. J. Leach and A. C. Eberle. 1,684,062; Sept. 11.
Securing or clamping means for lock cylinders. J. S. Lach. 1,684,230; Sept. 11.
Separating or classifying machine. W. A. Riddell. 1,683,918; Sept. 11.
Separator: *See*—
Cream separator. Receiver separator.
Separator. C. G. Hawley. 1,684,021; Sept. 11.

Settee frame or similar article. C. Bauer. Des. 76,280–83; Sept. 11.
Sewing machine. A. Eppler. 1,683,659–60; Sept. 11.
Sewing machine, Chain-stitch. R. Becker. 1,684,004; Sept. 11.
Sewing machine, Wax-thread. A. R. Morrill. 1,683,689; Sept. 11.
Shade, Window. F. A. Neveu. 1,683,844; Sept. 11.
Shaft bearing. W. J. Chlevitz. 1,683,594; Sept. 11.
Shaft coupling, Flexible. W. E. Sykes. 1,683,999; Sept. 11.
Shaker or similar article. H. L. Budd. Des. 76,285; Sept. 11.
Sharpener for razor blades, Magnetic. T. G. Lovegrove. 1,683,981; Sept. 11.
Shears: *See*—
Bloom shears.
Sheet-metal member, Ribbed or corrugated. J. J. Mullen and F. M. Stambaugh. 1,683,841; Sept. 11.
Sheet-metal members, Forming ribbed or corrugated. J. J. Mullen and F. M. Stambaugh. 1,683,842; Sept. 11.
Shelf and drop door, Combination. W. A. Noack. 1,684,193; Sept. 11.
Shingles, Making imitation hand-rift. C. M. Abbott. 1,683,751; Sept. 11.
Shock absorber for drilling rigs. J. Becker. 1,683,948; Sept. 11.
Shock-absorbing mechanism. S. B. Haseltine. 1,683,822; Sept. 11.
Shoe and locker bag. M. Levit. 1,684,232; Sept. 11.
Shoe uppers, Apparatus for assembling stiffeners in. W. H. Baynard. 1,684,052; Sept. 11.
Shoes, Manufacture of. F. E. Toothaker. 1,683,636; Sept. 11.
Shooting gallery, Automatic-moving-target. A. M. Rowe and C. O. Rowe. 1,683,808; Sept. 11.
Shovel: *See*—
Snow and street-cleaning shovel.
Show case. W. Munch. 1,683,791; Sept. 11.
Side-wall sampler. S. H. Williston. 1,683,642; Sept. 11.
Sifter. J. Sharp. 1,683,848; Sept. 11.
Sign. H. C. Gammeter. Des. 76,295; Sept. 11.
Sign, Scintillating. A. W. Sievers. 1,684,369; Sept. 11.
Sign, Street. J. G. Ross. 1,683,921; Sept. 11.
Signal: *See*—
Automobile signal. Traffic signal.
Crossing signal.
Signal observer, Traffic-. W. C. Buttron. 1,683,951; Sept. 11.
Signal switch for vehicles. S. P. Wiegner, C. W. Davidson, and H. R. Gordon. 1,683,852; Sept. 11.
Signaling means, Vehicle. J. P. Carter. 1,638,818; Sept. 11.
Ski handle. A. E. Martinson. 1,684,326; Sept. 11.
Sleigh. W. J. Robertson. 1,683,846; Sept. 11.
Slit construction, Fine-. J. Kaufmann. 1,683,621; Sept. 11.
Snap hook. M. Itjen. 1,684,322; Sept. 11.
Snow and street-cleaning shovel. C. H. Selin. 1,683,732; Sept. 11.
Soap, Medicinal. H. H. von Kornatzki. 1,684,336; Sept. 11.
Socket and fuse plug. H. W. Benoit. 1,683,598; Sept. 11.
Socket, Electric-lamp. L. Mayer. 1,684,356; Sept. 11.
Socket, Incandescent lamp. D. Hays. 1,684,268; Sept. 11.
Sound-reproducing mechanism. E. U. Iwwerks. 1,684,098; Sept. 11.
Spacer. F. W. Anderson. 1,684,051; Sept. 11.
Spacer for concrete reenforcement. T. H. Kane. 1,683,829; Sept. 11.
Spark plug. P. P. Alexander. 1,683,596; Sept. 11.
Speed-changing mechanism. R. B. Beauchamp. 1,684,167; Sept. 11.
Speed-regulator system. S. A. Staege. 1,684,077; Sept. 11.
Spiral conveyer, Endless. J. O. Bailey. 1,684,254; Sept. 11.
Spits used in preparing salmon for barbecue. S. B. Mayhew. 1,683,834; Sept. 11.
Splicing-sleeve wrench, Wire-. F. D. Harr and J. Fallon. 1,683,887; Sept. 11.
Spool. P. J. Farley. 1,684,019; Sept. 11.
Spoon, Dipping. J. Evans. Des. 76,293; Sept. 11.
Spoon or similar article. W. S. Warren. Des. 76,333–4; Sept. 11.
Spotlight-mounting device. J. E. Prince and J. E. Schooley. 1,683,915; Sept. 11.
Spring-cushion construction. M. Lipps. 1,684,234; Sept. 11.
Spring mat for upholstered articles. J. L. MacInerney. 1,683,684–5; Sept. 11.
Stair-covering apparatus. C. M. Molinelli. 1,684,328; Sept. 11.
Stamp box. C. C. Harris. 1,684,318; Sept. 11.
Stand: *See*—
Display stand.
Starting and controlling device for internal-combustion motors. B. A. De Waern. 1,684,299; Sept. 11.
Static eliminator. A. L. Betts. 1,683,592; Sept. 11.
Statuette. C. M. Van Hoozer. Des. 76,332; Sept. 11.
Steam boiler, Steepled radiant-heat. C. G. Hawley. 1,683,972; Sept. 11.
Steel, Manufacture of. R. A. Hadfield. 1,683,886; Sept. 11.
Steering gear, Ship's. A. M. Butterfield. 1,684,307; Sept. 11.
Stenciling machine. L. A. Thatcher. 1,683,635; Sept. 11.
Stenciling machine. L. A. Thatcher. 1,683,741; Sept. 11.
Stoker, Locomotive. D. F. Crawford. 1,683,960; Sept. 11.
Storing motor vehicles, Method and construction for. E. H. White. 1,683,937; Sept. 11.
Strainer head for tubing machines. V. Royle. 1,684,203; Sept. 11.
Strap connection, Adjustable. F. Dieterle. 1,683,657; Sept. 11.
Striker plate, Adjustable. E. E. Lundberg. Re17,083; Sept. 11.
Stripping. W. C. Roberts. 1,684,147; Sept. 11.
Stud driver. A. Levedahl. 1,684,231; Sept. 11.
Stuffing box for propeller shafts. H. H. Blache. 1,683,756; Sept. 11.
Subliming apparatus. H. G. Stone. 1,683,931; Sept. 11.
Support, Hollow-shaft collector-lead. T. S. Scott. 1,683,706; Sept. 11.
Surveying bore holes, Instrument for. L. B. Wright, A. B. Yates, and A. A. Lease. 1,684,337; Sept. 11.
Sweep rakes, Push off for. J. H. Cope. 1,684,264; Sept. 11.
Switch: *See*—
Disconnecting switch. Magnetic switch.
Electric switch.
Switch mechanism, Direction-indicating. J. Geyer and J. Switzer. 1,683,970; Sept. 11.
Switch movement, Snap-. R. Boelter and E. Bartz. 1,684,257; Sept. 11.
Synchronism between picture and music in cinematographic performances, Apparatus for obtaining. A. Beeneken. 1,683,753; Sept. 11.
Table. R. F. Burwell. 1,683,711; Sept. 11.
Table. F. Schwartz. Des. 76,328; Sept. 11.
Table and lamp, Combined. D. C. Noggins. Des. 76,319; Sept. 11.
Tank: *See*—
Pressure tank.
Tank structure. L. H. Hill. 1,684,059; Sept. 11.
Tap extractor, Broken-. D. Pearce. 1,683,796; Sept. 11.
Telegraph system and circuit arrangement therefor. W. S. Smith, N. W. McLachlan, and W. G. R. Jacob. 1,684,117; Sept. 11.
Telegraphy and the like, Cable. W. S. Smith and N. W. McLachlan. 1,684,116; Sept. 11.
Telemetric impulse summation system. W. H. Pratt and D. R. Price. 1,684,241; Sept. 11.
Telephone receiver. N. Baldwin. 1,683,945; Sept. 11.
Telephone system, Automatic. J. I. Bellamy and J. E. Gardner. 1,683,857; Sept. 11.
Temperature regulator for electric heaters. W. D. Kelly. 1,684,281; Sept. 11.
Template, Multiple. T. B. Carr. 1,683,953; Sept. 11.
Tension-take-up device for knitting machines. M. Richter. 1,683,989; Sept. 11.
Tensioning device for braiding machines. W. C. Johnson. 1,683,898; Sept. 11.
Tent. H. B. Marbury. 1,684,237; Sept. 11.
Textile fabric. F. D. Coppock. Des. 76,288; Sept. 11.
Textile fabric. A. Solomon. Des. 76,239; Sept. 11.
Textile fleece, Method of and apparatus for manufacturing. P. H. Walsh. 1,683,812; Sept. 11.
Thermal plug cut-out. E. K. Clark. 1,684,170; Sept. 11.
Thermostat. P. S. Martin. 1,683,908; Sept. 11.
Thistle buds from peas, Separating. O. S. Sells. 1,683,703; Sept. 11.
Tie: *See*—
Adjustable-length tie. Railway tie.
Tie plates, Forming. M. Ovestrud. 1,684,107; Sept. 11.
Timing mechanism. W. J. Miller. 1,684,064; Sept. 11.
Tire and accessory carrier, Combination spare-. H. R. Tinker. 1,684,160; Sept. 11.
Tire tubes, Manufacturing. A. E. Henderson. 1,683,669; Sept. 11.
Tool. R. I. Henderson. 1,683,775; Sept. 11.
Tool box for automobiles. W. W. White. 1,684,002; Sept. 11.
Tool drill, Multiple-. G. E. Hallenbeck. 1,683,667; Sept. 11.
Tool retainer. E. G. Gartin. 1,684,177; Sept. 11.
Tools, Safety appliance for. M. Centeno V. 1,684,345; Sept. 11.
Tooth, Artificial. C. C. Hallowell. 1,683,613–14; Sept. 11.
Tortilla, Apparatus for forming and thereafter releasing. A. J. Pereyra. 1,683,797; Sept. 11.
Toy and return ball, Combined sounding figure. W. S. Minnix. 1,683,910; Sept. 11.
Toy bow. F. W. and E. B. Chamberlain. 1,683,865; Sept. 11.
Toy, Figure. A. E. Paluck. 1,684,287; Sept. 11.
Toy pistol. R. L. Ford. 1,683,662; Sept. 11.
Toy, Rocking-horse. G. H. Tegelberg. 1,684,250; Sept. 11.
Track-tamping machine. E. E. Peterson. 1,684,109; Sept. 11.
Traction apparatus. W. E. Curtis. 1,683,870; Sept. 11.
Traffic signal. C. D. Smyth and G. M. Robey. 1,684,207; Sept. 11.
Train-pipe-connecter head, Automatic. J. Robinson. 1,684,376; Sept. 11.
Transmission. W. E. Trumpler. 1,684,162; Sept. 11.
Transmission-clutch-drum lugs, Shoe for. J. W. Richards, jr. 1,683,806; Sept. 11.

Transmission, Differential release. H. A. Lewis. 1,684,233; Sept. 11.
Transmission for radial drill arms, elevating mechanism, and drill spindles. J. C. Carlton. 1,684,344; Sept. 11.
Transmission of pictures by electricity. H. E. Ives. 1,683,976; Sept. 11.
Transmission system, Hydraulic. A. F. Schwendner and J. S. Myers. 1,684,075; Sept. 11.
Transporting mixed materials. K. R. Schuster. 1,684,370; Sept. 11.
Traveling bag. L. Baetz. 76,279; Sept. 11.
Tray. J. L. Balch. 1,683,944; Sept. 11.
Tray, Ash. R. L. Hubbard. 76,302; Sept. 11.
Tray, Ash. H. W. Parker. 76,320; Sept. 11.
Tray, Traveling conveyer. E. Hanak. 1,684,092; Sept. 11.
Treating asbestos ore. S. H. Dolbear. 1,684,365; Sept. 11.
Treating asbestos ores. S. H. Dolbear. 1,684,366; Sept. 11.
Treating blood-stream infections. L. A. Edblom and E. K. Knott. 1,683,877; Sept. 11.
Treating oil, Apparatus for. R. T. Pollock. 1,683,801; Sept. 11.
Treating oil shales and other bituminous materials. W. W. Blaisdell. 1,684,007; Sept. 11.
Treating oils. G. Egloff. 1,683,767; Sept. 11.
Treating residual oils. L. C. Huff. 1,683,826; Sept. 11.
Treating sulphur. J. W. Schwab. 1,683,731; Sept. 11.
Treatment of ores. Q. Bent, E. Barnhart, and F. W. Wood. 1,684,006; Sept. 11.
Tree: *See*—
Artificial tree.
Trolley. C. A. Gouty. 1,684,178; Sept. 11.
Trolling spoon. H. W. Heitmiller. 1,683,890; Sept. 11.
Truck, Railway. O. K. Kjolseth. 1,684,282; Sept. 11.
Tubing, Well. J. G. Robinson. 1,683,629; Sept. 11.
Tungsten oxide gel, Preparing. W. A. Patrick and E. H. Barclay. 1,683,695; Sept. 11.
Turbine engine, Hydrocarbon. W. G. Simpson. 1,683,994; Sept. 11.
Type flow meter, Rotary-. W. W. Hamill. 1,684,350; Sept. 11.
Typewriter construction. F. R. Friedrich. 1,683,770; Sept. 11.
Typewriting and card-perforating machine, Combined. A. G. F. Kurowski. 1,683,979; Sept. 11.
Typewriting machine. J. A. B. Smith. 1,684,155; Sept. 11.
Typewriting machine, Line-by-line. A. A. Egli. 1,683,964; Sept. 11.
Universal lock. F. C. Vom Bruck. 1,683,744; Sept. 11.
Unloading machine. F. W. Horstkotte. 1,683,779; Sept. 11.
Upsetting device. W. H. Felding. 1,683,661; Sept. 11.
Utensil, Dairy. D. W. Stoven. 1,684,047; Sept. 11.
Utility bag. W. B. Kitterman and F. H. Mills. 1,683,678; Sept. 11.
Valve. J. O. Smith. 1,683,927; Sept. 11.
Valve, Check. J. L. Gibson. 1,684,220; Sept. 11.
Valve construction. E. K. Nickerson. 1,683,625; Sept. 11.
Valve grinder and mechanical movement. W. E. Duthie. 1,683,876; Sept. 11.
Valve, Liquid. W. H. Rose. 1,683,727; Sept. 11.
Valve means. D. E. Austin. 1,683,813; Sept. 11.
Valve, Pressure and vacuum relief. J. L. Gray. 1,684,377; Sept. 11.
Valve-seat puller. W. Brauer. 1,683,757; Sept. 11.
Valve self-correcting means, Poppet-. H. R. Kiessig. 1,683,902; Sept. 11.
Valve stems and the like, Making tire-. E. G. Oakley 1,684,194; Sept. 11.
Valve throw, Adjusting. B. Dudley, jr. 1,684,014; Sept. 11.
Valve throw, Apparatus for adjusting. B. Dudley, jr. 1,684,015; Sept. 11.
Valves and the like, Control means for throttle. L. C. Josepha, jr. 1,684,033; Sept. 11.
Vane for fishery. C. Hansen and P. Leth. 1,683,668; Sept. 11.
Vanity case. H. A. Povel. 1,684,202; Sept. 11.
Vanity case. W. T. Wells. 1,683,851; Sept. 11.
Vegetable-pulping machine. J. Schmidt. 1,683,705; Sept. 11.
Vehicle brake. S. E. Griffith. 1,683,665; Sept. 11.
Vehicle, Child's. R. W. Cash. 1,684,298; Sept. 11.
Vehicle, Child's. N. H. Davis. 1,683,872; Sept. 11.
Vehicle, Dumping. H. C. Heaton. 1,684,095; Sept. 11.
Vehicle, Motor. G. R. Pennington. 1,684,070; Sept. 11.
Vehicle, Power-driven. H. Herrmann. 1,683,776; Sept. 11.
Vehicle, Signal. O. A. Copple. Des. 76,287; Sept. 11.
Vehicle spring construction. A. F. Masury and E. R. Gurney. 1,684,041; Sept. 11.
Vending machine. L. H. Morin. 1,683,722; Sept. 11.
Ventilator: *See*—
Roof ventilator.
Ventilator. E. H. Ellison. 1,683,820; Sept. 11.
Vibratory device. H. W. Brown and A. E. Bailey, jr. 1,684,260; Sept. 11.
Voltage control, Automatic. G. C. Hubble. 1,684,182; Sept. 11.
Voltage regulator. R. Kummenich. 1,683,785; Sept. 11.
Voltage regulator. W. Schaelchlin. 1,684,151; Sept. 11.
Waffle-iron heating element. F. F. Forshee. 1,684,176; Sept. 11.
Washing pulp, Method of and apparatus for. C. A. Johnson. 1,683,782; Sept. 11.
Water-closet, Boat. C. Schwarz. 1,683,924; Sept. 11.
Water heater, Exhaust-gas. L. M. Wheeler. 1,683,747; Sept. 11.
Water supply for automobile radiators. J. F. Morris. 1,683,911; Sept. 11.
Watthour meter. A. R. Rutter. 1,684,149; Sept. 11.
Weather vane. E. W. Lawson. Des. 76,316; Sept. 11.
Weaving. R. C. McIlroy. 1,683,983; Sept. 11.
Weaving textile fabrics. G. J. Seckel. 1,684,364; Sept. 11.
Wedge, Magnetic. S. R. Bergman. 1,684,255; Sept. 11.
Weevil destroyer. Z. T. Mann. 1,684,040; Sept. 11.
Weighting silk and the product thereof. R. J. O'Brien, jr. 1,684,286; Sept. 11.
Welding, Apparatus for lap. J. R. Brueckner and H. L. Clark. 1,684,169; Sept. 11.
Welding, Electric. G. H. Phelps. 1,684,108; Sept. 11.
Welding system, Arc. J. F. K. Harms. 1,684,317; Sept. 11.
Welt-attaching mechanism. J. B. Hadaway. 1,683,666; Sept. 11.
Welt mechanism for full-fashioned-knitting machines. W. D. Richter. 1,683,698; Sept. 11.
Wheel: *See*—
Resilient wheel.
Wheel for elastic tires, Metal. C. Schenck and L. Fine. 1,683,700; Sept. 11.
Wheel puller D. C. Johnson. 1,684,226; Sept. 11.
Winding machine. C. L. Saal. 1,684,114; Sept. 11.
Window-operating mechanism. F. J. Pfiffer. 1,683,914; Sept. 11.
Window screen. E. P. Garner. 1,684,349; Sept. 11.
Wiping device for wind screens, windows, and the like. J. W. Allen. 1,683,943; Sept. 11.
Wire-drawing apparatus. B. B. Leustig and J. D. Petsche. 1,684,102; Sept. 11.
Wire-drawing mechanism. P. J. Mahoney. 1,683,906; Sept. 11.
Wire reel. E. E. Leedy. 1,684,037; Sept. 11.
Wireless parasitic currents, Elimination of. L. Levy. 1,684,103; Sept. 11.
Wrapping machinery. W. E. Molins. 1,683,789; Sept. 11.
Wrench: *See*—
Splicing-sleeve wrench.
Wrist-strap device. A. Bulova. 1,684,054; Sept. 11.
Zeolites in the treatment of water, Increasing the efficiency of. W. C. Foster. 1,683,967; Sept. 11.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 11, 1928.

NOTE.—First number—class, second number—subclass, third number—patent number.

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155: 1,684,150
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197— 128: 1,684,155
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55.2: 1,684,190
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157: 1,684,367
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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott, William T., doing business as William T. Abbott & Co., Boston, Mass. Tea. 247,131; Sept. 18; Serial No. 266,180; published July 3, 1928. Class 46.

Acme Brick Company, Fort Worth, Tex. Brick and building tile. 247,024; Sept. 18; Serial No. 265,248; published June 26, 1928. Class 12.

Advance Thread Co. (See Seligsohn, Jacob.)

Alcardi, James A., & Sons Inc., Boston, Mass. Food preparations. 246,909; Sept. 18; Serial No. 265,249; published July 3, 1928. Class 46.

Alles, Clifton C., Los Angeles, Calif. Toy vehicles. 247,010; Sept. 18; Serial No. 264,859; published July 3, 1928. Class 22.

Aluminum Goods Manufacturing Co., Manitowoc, Wis. Aluminum silver-cleaning plates. 247,105; Sept. 18; Serial No. 263,849; published June 19, 1928. Class 4.

Amber Size & Chemical Co., Ltd., The, London, England. Bituminous composition. 246,848; Sept. 18; Serial No. 261,600; published June 19, 1928. Class 12.

American Association of University Instructors in Accounting, The, Columbus, Ohio. Publication. 246,924; Sept. 18; Serial No. 265,767; published June 26, 1928. Class 38.

American Car and Foundry Company, New York, N. Y. Cast-metal melting pots. 246,967; Sept. 18; Serial No. 255,427; published Nov. 29, 1927. Class 34.

American Chicle Company, Long Island City, N. Y. Chewing gum and cachous. 247,091; Sept. 18; Serial No. 259,667; published July 3, 1928. Class 46.

American Laundry Machinery Company, The, Norwood Station, Cincinnati, Ohio. Monthly publication. 246,923; Sept. 18; Serial No. 265,769; published July 3, 1928. Class 38.

American Writing Paper Company, Inc., Holyoke, Mass. Color charts and pamphlets. 246,998; Sept. 18; Serial No. 265,877; published July 3, 1928. Class 38.

Ammon, Charles D., doing business as The Easy Manufacturing Co., Lincoln, Nebr. Implements for pushing pipes through the ground, windmills and repair and replacement parts, etc. 246,949; Sept. 18; Serial No. 266,413; published July 10, 1928. Class 23.

Anthony, J. M., & Co. (See Richter, Charles.)

Appelbaum, Isaac, doing business as The Hangerette Company, New York, N. Y. Foldable cardboard containers for wearing apparel. 246,832; Sept. 18; Serial No. 262,786; published July 3, 1928. Class 2.

Arco Battery & Plate Co., The, Fort Wayne, Ind. Batteries and battery plates. 246,896; Sept. 18; Serial No. 265,608; published July 3, 1928. Class 21.

Armstrong Bros. Tool Co., Chicago, Ill. Pipe-cutting-off and pipe-threading tools, pipe wrenches, tongs, etc. 247,009; Sept. 18; Serial No. 264,860; published July 10, 1928. Class 23.

Association of Gray Line Owners, The, Baltimore, Md. Booklets. 247,027; Sept. 18; Serial No. 264,503; published June 19, 1928. Class 38.

Automotive Manufacturing Company. (See Lafite, Roger G.)

B. R. M. Company, assignor to Rocco Brothers, Royal Oak, Mich. Washing and cleansing fluid. 246,982; Sept. 18; Serial No. 228,731; published June 19, 1928. Class 4.

Bailey's Agencies Limited, London, England. Pencils and pencil cases. 247,037; Sept. 18; Serial No. 264,943; published June 26, 1928. Class 37.

Baker, A. T., & Co. Inc., Manayunk, Philadelphia, Pa. Pile fabrics in the piece. 246,979; Sept. 18; Serial No. 235,540; published July 3, 1928. Class 42.

Baker Perkins Company, Inc., Saginaw, Mich. Flour-handling machinery, dough-handling machinery, etc. 247,103; Sept. 18; Serial No. 257,089; published July 10, 1928. Class 23.

Ballinger, W. A., doing business as W. A. Ballinger & Co., San Francisco, Calif. Mops and mop heads. 246,986; Sept. 18; Serial No. 266,013; published July 3, 1928. Class 20.

Barrell, William L., Co. of New York, Inc., New York, N. Y. Cotton duck in the piece. 246,969; Sept. 18; Serial No. 256,438; published Jan. 31, 1928. Class 42.

Batt Brothers, New York, N. Y. Cigarettes. 246,966; Sept. 18; Serial No. 255,047; published July 3, 1928. Class 17.

Bauer, William E., doing business as Bauer & Bauer, Norristown, Pa. Household cleansing preparation. 247,082–3; Sept. 18; Serial Nos. 259,706–7; published July 3, 1928. Class 4.

Beardsley & Wolcott Mfg. Co., The, Hartford, Conn. Electric toasters. 246,990; Sept. 18; Serial No. 265,940; published July 3, 1928. Class 21.

Beggs, Annabell H., doing business as H-O Chemical Company, Denver, Colo. Cleaning fluid. 247,021; Sept. 18; Serial No. 249,039; published Oct. 25, 1927. Class 4.

Best-Ever Costume Co. Inc., New York, N. Y. Misses' and ladies' dresses and coats. 247,040; Sept. 18; Serial No. 264,958; published June 19, 1928. Class 39.

Beveridge Paper Company, The, Indianapolis, Ind. Cover paper, bristol, and cardboard. 246,944; Sept. 18; Serial No. 266,349; published July 3, 1928. Class 37.

Be Vier and Co., Inc., New York, N. Y. Printed lists of household commodities. 247,081; Sept. 18; Serial No. 259,709; published July 3, 1928. Class 38.

Blackwell Wielandy Company, St. Louis, Mo. Pencil and ink tablets, notebooks, etc. 246,945; Sept. 18; Serial No. 266,350; published June 19, 1928. Class 37.

Blake Manufacturing Co., Springfield, Mass. Flash lights. 246,830; Sept. 18; Serial No. 262,646; published July 3, 1928. Class 21.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 247,064; Sept. 18; Serial No. 266,970; published July 10, 1928. Class 42.

Bonide Chemical Co., Utica, N. Y. Cleaning liquid. 247,136; Sept. 18; Serial No. 266,121; published June 19, 1928. Class 4.

Bonney Forge & Tool Works, Allentown, Pa. Wrenches and socket wrench sets. 246,827; Sept. 18; Serial No. 262,547; published July 10, 1928. Class 23.

Bozeman Milling Company. (See Montana Flour Mills Company.)

Bradigan Tablet Concern, The, Jamestown, N. Y. Medicinal preparations. 246,980; Sept. 18; Serial No. 235,360; published July 3, 1928. Class 6.

Bradley, Smith, Company, The, New Haven, Conn. Candy. 246,850; Sept. 18; Serial No. 261,665; published July 10, 1928. Class 46.

Braun, Vernon T., doing business as The Progress Press, Chicago, Ill. Radio call finder. 247,107; Sept. 18; Serial No. 263,747; published July 3, 1928. Class 38.

Brown, George W., Clinton, Iowa. Newspaper columns. 247,015; Sept. 18; Serial No. 266,238; published July 3, 1928. Class 38.

Brown, J. A., Collinsville, Okla. Bread. 247,152; Sept. 18; Serial No. 266,788; published July 3, 1928. Class 46.

Brown, Paul W., St. Louis, Mo. Magazine. 247,090; Sept.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Smoking and chewing tobacco. 247,045; Sept. 18; Serial No. 264,669; published July 3, 1928. Class 17.

18; Serial No. 253,677; published Oct. 25, 1927. Class 38.

Buchsbaum, S., & Co., Chicago, Ill. Finger rings, napkin rings, pearls to be strung on strings of pearls, and belt buckles. 246,853; Sept. 18; Serial No. 261,557; published July 3, 1928. Class 28.

Buegeleisen & Jacobson, New York, N. Y. Reeds for the saxophone and clarinet. 246,907; Sept. 18; Serial No. 257,964; published June 26, 1928. Class 36.

Burgess, C. F., Laboratories, Inc., Madison, Wis., and Chicago, Ill. Sound-deadening tiles of sheet metal. 247,114; Sept. 18; Serial No. 263,533; published June 12, 1928. Class 12.

Buzza Company, The, Minneapolis, Minn. Juvenile and general book line, etc. 247,055; Sept. 18; Serial No. 251,484; published June 19, 1928. Class 38.

Cadillac Flushlite Door Company, Cadillac, Mich. Wood doors. 247,113; Sept. 18; Serial No. 263,534; published June 5, 1928. Class 12.

Cahill, Thomas E., doing business as The Checkeroll Company, Ardmore, Pa. Modified checker game. 247,077; Sept. 18; Serial No. 259,994; published July 3. Class 22.

California Fig-Co Company Inc., Los Angeles, Calif. Coffee substitute. 246,933; Sept. 18; Serial No. 265,615; published July 10, 1928. Class 46.

California Prune & Apricot Growers Association, San Jose, Calif. Prune paste. 247,117; Sept. 18; Serial No. 263,457; published July 3, 1928. Class 46.

Campbell, J. A., Long Beach, Calif. Pressure control and relief valves. 246,937; Sept. 18; Serial No. 265,193; published July 3, 1928. Class 13.

Carbonell y Ca., Cordoba, Spain. Pure olive oil. 247,079; Sept. 18; Serial No. 259,842; published July 3, 1928. Class 46.

Carr, Milling Company, The, Hamilton, Ohio. Self-rising flour. 247,096; Sept. 18; Serial No. 258,162; published July 10, 1928. Class 46.

Carter-Rice & Carpenter Paper Co., The, Denver, Colo. Bond paper. 246,930; Sept. 18; Serial No. 265,618; published June 19, 1928. Class 37.

Carter-Rice & Carpenter Paper Co., The, Denver, Colo. Bond paper. 246,932; Sept. 18; Serial No. 265,617; published June 19, 1928. Class 37.

Caskin, Langdon, doing business as The SaniBel Company, Devon, Pa. Cleaning preparation in liquid form. 247,135; Sept. 18; Serial No. 266,125; published June 19, 1928. Class 4.

Catalina Hats, Inc., San Francisco, Calif. Ladies' hats. 246,956; Sept. 18; Serial No. 265,034; published June 19, 1928. Class 39.

Central Chemical Company. (See Nobrega, Frank B.)

Central Milling Co. of Tennessee, Memphis, Tenn., and Birmingham, Ala., assignor to Central Mills Corporation, Memphis, Tenn. Bread and wheat biscuit flour. 246,891; Sept. 18; Serial No. 242,948; published July 3, 1928. Class 46.

Chain Store Publishing Corporation, The, New York, N. Y. Periodical publication. 246,953; Sept. 18; Serial No. 266,516; published July 3, 1928. Class 38.

Chamberlain, F. B., Company, East St. Louis, Ill., and St. Louis, Mo. Concentrated extracts and syrups. 246,983; Sept. 18; Serial No. 214,586; published Jan. 17, 1928. Class 45.

Chatfield Manufacturing Corporation, The, Boston, Mass. Composition roofing in rolls. 246,882; Sept. 18; Serial No. 263,858; published June 5, 1928. Class 12.

Checkeroll Company, The. (See Cahill, Thomas E.)

Chula Vista Citrus Association, also doing business as San Diego Fruit Company, Chula Vista, Calif. Oranges, lemons, and grapefruit. 247,116; Sept. 18; Serial No. 263,460; published July 10, 1928. Class 46.

Cifuentes, Pego y Compañia, Habana, Cuba. Cigars, cigarettes, and cut tobacco. 246,838; Sept. 18; Serial No. 262,897; published July 10, 1928. Class 17.

Clean Surface Products Company, Chicago, Ill. Neutral paste cleaner. 247,085; Sept. 18; Serial No. 255,230; published Dec. 6, 1927. Class 4.

Clearwater Lumber Company, Clearwater, Fla. Furniture attached to buildings. 247,169; Sept. 18. Class 32.

Clinical Laboratories Company, The, Cleveland, Ohio. Liquid preparation. 246,892; Sept. 18; Serial No. 242,281; published May 8, 1928. Class 6.

Close, George, Co., The, Cambridge, Mass. Candy. 247,143; Sept. 18; Serial No. 266,924; published July 10, 1928. Class 46.

Cohart Refractories Company, Louisville, Ky. Refractory blocks for furnaces. 246,879; Sept. 18; Serial No. 263,926; published June 19, 1928. Class 12.

Colson Company, The, Elyria, Ohio. Velocipedes. 246,872; Sept. 18; Serial No. 264,144; published July 3, 1928. Class 22.

Columbia Mills, Los Angeles, Calif. Window-shade cloth. 247,171; Sept. 18. Class 42.

Combustioneer, Inc., Chicago, Ill. Coal-handling equipment. 246,855; Sept. 18; Serial No. 261,943; published July 3, 1928. Class 34.

Commander Milling Company, Minneapolis, Minn. Wheat flour. 247,160; Sept. 18; Serial No. 266,648; published July 3, 1928. Class 46.

Compagnie Belge Goliath, Brussels, Belgium. Pneumatic rock hammer drills, pneumatic brushing machines, etc. 247,109; Sept. 18; Serial No. 263,643; published July 3, 1928. Class 23.

Conquest Mill Engineering Company, Limited, London, England. Mills for grinding or pulverizing. 247,111–12; Sept. 18; Serial Nos. 263,539–40; published July 3, 1928. Class 23.

Continental Building Specialties, Los Angeles, Calif. Composition building materials. 246,880; Sept. 18; Serial No. 263,925; published June 19, 1928. Class 12.

Contrary Mary Prod. Co. (See French, Mary P.)

Cornstalk Products Company, Inc., New York, N. Y. Print, wrapping, writing, book, and tissue paper. 246,902; Sept. 18; Serial No. 265,525; published July 3, 1928. Class 37.

Cortrim Lumber Company, Bristol, Tenn. Lumber, dimension core stock, trim for windows and doors, and moldings. 246,867; Sept. 18; Serial No. 264,290; published June 26, 1928. Class 12.

Couture, E. A., Modesto, Calif. Fresh grapes. 247,063; Sept. 18; Serial No. 266,976; published July 10, 1928. Class 46.

Craney, James H., doing business as George F. Madden & Co., Norwich, Conn. Cigars. 247,036; Sept. 18; Serial No. 266,302; published July 10, 1928. Class 17.

Crary, Charles A., Wyoming, Cincinnati, Ohio. Toilet soap. 247,026; Sept. 18; Serial No. 264,362; published June 26, 1928. Class 4.

Crawford, W. F., Company, Waco, Tex. Tents, tarpaulins, and wagon covers. 246,970; Sept. 18; Serial No. 256,453; published Mar. 20, 1928. Class 50.

Cumback Currency Company. (See Gregg, Robert E., assignor.)

Curtis 1000, Inc., St. Paul, Minn. Envelopes. 247,047; Sept. 18; Serial No. 264,717; published June 26, 1928. Class 37.

Darwin & Milner, Inc., Cleveland, Ohio. Tool steel, steel bars, etc. 247,163; Sept. 18. Class 14.

Davis & Company, St. Louis, Mo. Cordials and beverages. 246,921; Sept. 18; Serial No. 257,349; published July 10, 1928. Class 45.

Daviss, Bessie N., doing business as Shamrock Cordial Co., Austin, Tex. Syrup. 247,052; Sept. 18; Serial No. 252,370; published June 12, 1928. Class 46.

Day's Tailor-D Wear, Inc., Tacoma, Wash. Trousers. 246,938; Sept. 18; Serial No. 265,198; published June 12, 1928. Class 39.

Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 246,831; Sept. 18; Serial No. 262,704; published July 3, 1928. Class 13.

Denver Fire Clay Company, The, Denver, Colo. Air blowers, crushers, and cupel machines. 246,822; Sept. 18; Serial No. 262,157; published July 10, 1928. Class 23.

Denver Fire Clay Company, The, Denver, Colo. Air blowers, crushers, and cupel machines. 246,823; Sept. 18; Serial No. 262,159; published July 10, 1928. Class 23.

Denver Fire Clay Company, The, Denver, Colo. Sleves of metal, graphite crucibles, etc. 246,824; Sept. 18; Serial No. 262,160; published July 10, 1928. Class 26.

Denver Fire Clay Company, The, Denver, Colo. Sieves of metal and wire cloth, graphite crucibles (melting type), assay clay goods, etc. 247,149; Sept. 18; Serial No. 266,854; published July 3, 1928. Class 26.

Derco Trunk Co., The, Los Angeles, Calif. Trunks and hand luggage. 246,856; Sept. 18; Serial No. 261,950; published July 3, 1928. Class 3.

Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps including shaving sticks. 246,893; Sept. 18; Serial No. 242,102; published July 3, 1928. Class 4.

Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps including toilet soaps and shaving sticks. 246,894; Sept. 18; Serial No. 242,048; published July 3, 1928. Class 4.

Disney, Walter E., Hollywood, Calif. Motion pictures reproduced in copies for sale. 247,156; Sept. 18; Serial No. 266,717; published July 3, 1928. Class 26.

Dodge, F. W., Corporation. Periodical. 246,959–60; Sept. 18; Serial Nos. 265,095–6; published June 26, 1928. Class 38.

Dorland, John Paul, Inc., Philadelphia, Pa. Monthly magazine. 247,130; Sept. 18; Serial No. 266,193; published July 3, 1928. Class 38.

Doubleday, Doran & Company, Inc., Garden City, N. Y. Magazine. 247,068; Sept. 18; Serial No. 266,919; published July 3, 1928. Class 38.

Eagle Pencil Company, New York, N. Y. Lead pencils. 246,878; Sept. 18; Serial No. 263,937; published June 19, 1928. Class 37.

Easy Manufacturing Co., The. (See Ammon, Charles D.)

Ehlers, Albert, Inc., New York, N. Y. Coffee. 247,154–5; Sept. 18; Serial Nos. 266,721–2; published July 3, 1928. Class 46.

Eldinger & Hager, Inc., New York, N. Y. Eggs. 247,066; Sept. 18; Serial No. 266,982; published July 10, 1928. Class 46.

Elgin Chocolate Products Co. Inc., Elgin, Ill. Candy. 247,159; Sept. 18; Serial No. 266,651; published July 10, 1928. Class 46.

Elgin Heights Community, Elgin, Ill. Apples. 246,940; Sept. 18; Serial No. 266,305; published July 10, 1928. Class 46.

Ellsworth, David, Company. (See Lippy, John D., jr.)

Ely & Walker Dry Goods Co., St. Louis, Mo. Dresses and aprons of all kinds. 247,041; Sept. 18; Serial No. 264,973; published June 19, 1928. Class 39.

Emmerich, Chas., and Co., Chicago, Ill. Pillows. 247,065; Sept. 18; Serial No. 266,983; published July 10, 1928. Class 32.

Emulsion Process Corporation, The, Jersey City, N. J. Asphalt emulsion. 246,874; Sept. 18; Serial No. 264,027; published June 26, 1928. Class 12.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 246,912; Sept. 18; Serial No. 265,329; published July 3, 1928. Class 22.

Eskimo Pie Corporation, Louisville, Ky. Ice-cream confections. 246,906; Sept. 18; Serial No. 257,974; published July 3, 1928. Class 46.

Federal Mail Order Corporation, New York, N. Y. Watches, watch movements, watchcases, and parts of watches. 247,042; Sept. 18; Serial No. 264,974; published July 3, 1928. Class 27.

Federal Washboard Company, The, Tiffin, Ohio. Ironing tables. 246,901; Sept. 18; Serial No. 265,528; published July 3, 1928. Class 24.

Ferguson Gear Company, Gastonia, N. C. Belting. 246,860; Sept. 18; Serial No. 262,073; published July 3, 1928. Class 35.

Fight Stories, Inc., New York, N. Y. Monthly magazine. 246,900; Sept. 18; Serial No. 265,531; published July 3, 1928. Class 38.

Fincart Foods, Inc., Tuckahoe, N. Y. Coffee and tea. 246,840; Sept. 18; Serial No. 262,958; published July 3, 1928. Class 46.

First National Pictures, Inc., New York, N. Y. Motion-picture films, etc. 247,144; Sept. 18; Serial No. 266,921; published July 10, 1928. Class 26.

Fischer, J. A., Company, Philadelphia, Pa. Distributor and oil-pump gears. 246,857; Sept. 18; Serial No. 261,953; published July 3, 1928. Class 23.

Florida Fruit Canners Inc., Frostproof, Fla. Canned grapefruit. 246,842; Sept. 18; Serial No. 261,052; published July 3, 1928. Class 46.

Follman, Louis, New York, N. Y. Ready-mixed paint. 247,025; Sept. 18; Serial No. 264,370; published July 3, 1928. Class 16.

Fort Dodge Bottling Works, Fort Dodge, Iowa. Beverages and syrups for making the same. 246,941; Sept. 18; Serial No. 266,315; published July 10, 1928. Class 45.

Frei Bros., Santa Rosa and Sebastopol, Calif. Fresh apples. 246,908; Sept. 18; Serial No. 264,976; published July 3, 1928. Class 46.

French, Mary P., doing business as Contrary Mary Prod. Co., Greenwood, Miss. Confection. 247,029; Sept. 18; Serial No. 264,514; published July 10, 1928. Class 46.

Friction Products Company, Aberdeen, Wash. Friction blocks, edger pin stock, etc. 246,916; Sept. 18; Serial No. 265,430; published July 3, 1928. Class 35.

Friday Canning Corporation, New Richmond, Wis. Canned vegetables. 247,071; Sept. 18; Serial No. 260,819; published July 10, 1928. Class 46.

Fyre Frees Corporation. (See General Carbonic Company, assignor.)

Galveston Mills, Gretna, Va. Wheat flour. 247,053; Sept. 18; Serial No. 252,244; published July 3, 1928. Class 46.

Garcia & Maggini Company, San Francisco, Calif. Dried fruits. 247,011; Sept. 18; Serial No. 264,876; published June 19, 1928. Class 46.

Garst, Goodwin, doing business as Garst Manufacturing Co., Chicago, Ill. Scrapers. 246,852; Sept. 18; Serial No. 261,751; published July 3, 1928. Class 23.

Gaw-O'Hara Envelope Company, Chicago, Ill. Envelopes, letterheads, billheads, etc. 246,866; Sept. 18; Serial No. 264,295; published June 26, 1928. Class 37.

Gehlert, R. S., & Co., Detroit, Mich. Coffee. 246,946; Sept. 18; Serial No. 266,368; published July 3, 1928. Class 46.

General Carbonic Company, New York, N. Y., assignor to Fyre Frees Corporation. Portable hand fire-extinguishing apparatus. 247,056; Sept. 18; Serial No. 251,438; published Oct. 25, 1927. Class 23.

General Tire & Rubber Company, The, Akron, Ohio. Vehicle tires and tubes and patches. 246,973; Sept. 18; Serial No. 289,408; published July 3, 1928. Class 35.

General Woodcraft Co., Inc., North Bergen, N. J. Doors, windows, sashes, and trims. 246,870; Sept. 18; Serial No. 264,227; published June 5, 1928. Class 12.

Gold Seal Electrical Company, Inc., New York, N. Y. Radio vacuum tubes. 247,023; Sept. 18; Serial No. 260,997; published June 19, 1928. Class 21.

Golf Score Watch Company, Incorporated, The, Los Angeles, Calif. Score-registering device for golf. 246,865; Sept. 18; Serial No. 264,296; published July 10, 1928. Class 26.

Grant Oil Burner Corporation, New York, N. Y. Oil burners. 246,981; Sept. 18; Serial No. 230,623; published July 3, 1928. Class 34.

Gregg, Robert E., doing business as Cumback Currency Company, assignor to Cumback Currency Company, Fort Worth, Tex. Trading stamps. 247,088; Sept. 18; Serial No. 257,869; published June 19, 1928. Class 38.

Grumbine-O'Donnell Corp., Harrisonburg, Va. Cigars. 247,164; Sept. 18. Class 17.

H-O Chemical Company. (See Beggs, Annabell H.)

H. & J. Laboratories, Parkersburg, W. Va. General tonic. 247,166; Sept. 18. Class 6.

Hale-Halsell Company, McAlester, Okla. Coffee. 247,038; Sept. 18; Serial No. 265,210; published July 3, 1928. Class 46.

Hale-Halsell Company, McAlester, Okla. Coffee. 247,128; Sept. 18; Serial No. 266,200; published July 3, 1928. Class 46.

Handy Tire Gauge Manufacturing Company, Syracuse, N. Y. Tire gauges. 246,937; Sept. 18; Serial No. 265,046; published July 3, 1928. Class 26.

Hanford Produce Company, Sioux City, Iowa. Electric refrigerators. 246,841; Sept. 18; Serial No. 263,040; published July 10, 1928. Class 31.

Hangerette Company, The. (See Applebaum, Isaac.)

Hanover Cordage Company, Hanover, Pa. White fibre twine. 247,147; Sept. 18; Serial No. 266,807; published July 3, 1928. Class 7.

Happiness Bakeries, Inc., St. Paul, Minn. Cakes, rolls, bread, pie, etc. 247,080; Sept. 18; Serial No. 259,768; published Apr. 3, 1928. Class 46.

Hardy, Robert T., New York, N. Y. Publication. 246,989; Sept. 18; Serial No. 265,962; published June 19, 1928. Class 38.

Hawaiian Packing Company, Ltd., Hilo, Hawaii. Glacé pineapple. 247,035; Sept. 18; Serial No. 264,580; published July 10, 1928. Class 46.

Holland, John, Co., Chicago, Ill. Cold and face cream, skin lotion, etc. 247,162; Sept. 18. Class 6.

Henckels, J. A., Inc., New York, N. Y. Scissors, shears, and razors. 247,153; Sept. 18; Serial No. 266,731; published July 10, 1928. Class 23.

Herkenrath, Hugo, Merscheid, Germany. Table knives and forks, pocketknives, tongs, etc. 246,835; Sept. 18; Serial No. 262,847; published July 10, 1928. Class 23.

Herrmann, A. S., Inc., New York, N. Y. Textiles of linen. 247,075; Sept. 19; Serial No. 260,384; published July 10, 1928. Class 42.

Hickey-Freeman Co., Rochester, N. Y. Men's topcoats and overcoats. 246,858; Sept. 18; Serial No. 262,028; published June 19, 1928. Class 39.

Hills Brothers Company, The, New York, N. Y. Canned cranberry sauce. 247,073; Sept. 18; Serial No. 260,566; published July 10, 1928. Class 46.

Hills Brothers Company, The, New York, N. Y. Fresh grapefruit. 246,943; Sept. 18; Serial No. 266,320; published July 3, 1928. Class 46.

Hipp, Didisheim Co., Inc., New York, N. Y. Watches, watch movements, and parts of the same. 247,174; Sept. 18. Class 27.

Hirsch, Louis, Inc., Weehawken, N. J., and New York, N. Y. Hosiery-machine needles. 247,099; Sept. 18; Serial No. 259,113; published July 3, 1928. Class 23.

Hoberg Paper and Fibre Company, Green Bay, Wis. Toilet paper, paper towels, and paper napkins. 246,877; Sept. 18; Serial No. 263,946; published June 19, 1928. Class 37.

Hollywood Academy Teaching Motion Picture Play Writing, The, New York, N. Y. Correspondence course teaching motion-picture-play writing. 247,167; Sept. 18. Class 38.

Horn, Paul, Fort Dodge, Iowa. Folding doors and partitions. 247,121; Sept. 18; Serial No. 263,320; published June 12, 1928. Class 12.

Howey, W. J., Co., Howey-in-the-Hills, Fla. Table water and fruit juices for beverage purposes. 246,851; Sept. 18; Serial No. 261,674; published July 3, 1928. Class 45.

Hyland, Richard C., doing business as Hyland Bag Company, San Francisco, Calif. Burlap and burlap coverings. 247,132; Sept. 18; Serial No. 266,171; published July 10, 1928. Class 42.

Hyman, Edgar C., Co., New York, N. Y. Shawls and scarfs. 246,934; Sept. 18; Serial No. 265,108; published June 12, 1928. Class 39.

Imperial Produce Company, Los Angeles, Calif. Tomatoes. 246,965; Sept. 18; Serial No. 257,678; published July 10, 1928. Class 46.

Irvington Company, The. (See Philippi, Louis P.)

Jacobsen Publishing Company, The, Chicago, Ill. Weekly magazine. 247,005; Sept. 18; Serial No. 266,543 published July 3, 1928. Class 38.

Japan Paper Company, New York, N. Y. Italian handmade and handlaid writing and printing paper. 247,148; Sept. 18; Serial No. 266,860; published July 3, 1928. Class 37.

Kansas Mill & Elevator Company, The, Arkansas City, Kans. Wheat flour. 246,931; Sept. 18; Serial No. 265,651; published July 3, 1928. Class 46.

Kappa Phi Kappa, Hanover, N. H. Fraternity badges, lapel buttons, cuff links, etc. 246,844; Sept. 18; Serial No. 261,260; published July 3, 1928. Class 28.

Kemp Brothers Packing Co., Frankfort, Ind. Bottled or canned tomato juice. 246,876; Sept. 18; Serial No. 263,951; published July 3, 1928. Class 46.

Kilborn & Bishop Co., The, New Haven, Conn. Traffic markers. 247,046; Sept. 18; Serial No. 264,688; published July 3, 1928. Class 14.

Kip, Frank C., Inc., Chicago, Ill. Untreated wiping-cloth material. 247,119; Sept. 18; Serial No. 263,409; published July 3, 1928. Class 42.

Kirkpatrick, Laighton H., Walsenburg, Colo. Beverages, syrups, mineral waters, etc. 247,001; Sept. 18; Serial No. 265,845; published July 10, 1928. Class 45.

Kline, E. A., doing business as E. A. Kline & Co., New York, N. Y. Ash trays or receivers, cigar and cigarette tubes, etc. 246,864; Sept. 18; Serial No. 264,309; published July 10, 1928. Class 8.

Knott, Archer F., Dinwiddie, Va. Hand rakes and hoes. 247,127; Sept. 18; Serial No. 266,203; published July 3, 1928. Class 23.

Kohorn, Oscar & Co. (See von Kohorn zu Kornegg, Oscar F.)

Kossoff, Ida, New York, N. Y. Vegetable fat. 246,828; Sept. 18; Serial No. 262,568; published July 10, 1928. Class 46.

Kough, John C., jr., doing business as Kough Products Co., Midland Park, N. J. Polishing cloths impregnated with mild abrasives. 246,833; Sept. 18; Serial No. 262,809; published June 19, 1928. Class 4.

Lackey Coal Company, Nashville, Tenn. Coal. 246,836; Sept. 18; Serial No. 262,855; published June 26, 1928. Class 1.

Lafite, Roger G., doing business as Automotive Manufacturing Company, Kansas City, Mo. Batteries. 247,050; Sept. 18; Serial No. 264,760; published July 3, 1928. Class 21.

Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Mill feeds. 247,039; Sept. 18; Serial No. 265,218; published July 10, 1928. Class 46.

Lefax, Philadelphia, Pa. Periodical pamphlets, data sheets, and printed books. 246,884; Sept. 18; Serial No. 246,418; published July 3, 1928. Class 38.

Levy, Harrison M., doing business as Zebest Products Co. of California, Los Angeles, Calif. Food flavors. 246,958; Sept. 18; Serial No. 265,048; published July 3, 1928. Class 46.

Liberty Orchards Company, Cashmere, Wash. Jam. 246,962; Sept. 18; Serial No. 254,463; published July 10, 1928. Class 46.

Liberty Umbrella Company, New York, N. Y. Canes, umbrellas, and parasols. 247,044; Sept. 18; Serial No. 264,590; published June 5, 1928. Class 41.

Linthicum, Geo. E., Baltimore, Md. Malt syrup. 247,126; Sept. 18; Serial No. 266,207; published July 3, 1928. Class 46.

Lippy, John D., jr., doing business as David Ellsworth Company, Washington, D. C. Chemical composition for stopping runs in hosiery. 246,917; Sept. 18; Serial No. 265,436; published June 26, 1928. Class 6.

Little Red Wagon Mfg. Co., Omaha, Nebr. Grading machines and parts thereof. 246,861; Sept. 18; Serial No. 262,098; published July 10, 1928. Class 23.

Lombardo, John L., doing business as J. L. Lombardo Co., Buffalo, N. Y. Perfume. 246,862; Sept. 18; Serial No. 257,172; published Dec. 13, 1927. Class 6.

Lowe, Harry L., Los Angeles, Calif. Oil-well specialties. 246,890; Sept. 18; Serial No. 243,225; published July 10, 1928. Class 23.

Lowenstein, Beatrice, New York, N. Y. Honey buns. 246,914; Sept. 18; Serial No. 265,338; published July 10, 1928. Class 46.

Lowry Cartoon Corporation, Chicago, Ill. Series of cartoons. 246,919; Sept. 18; Serial No. 265,485; published July 3, 1928. Class 38.
Mack, William, doing business as Nu-Song Co., Dayton, Ohio. Bird food. 247,000; Sept. 18; Serial No. 265,849; published July 10, 1928. Class 46.
Madden, George F., & Co. (See Craney, James H.)
Majestic Co., The, Huntington, Ind. Desks, chairs, and book ends. 247,031; Sept. 18; Serial No. 264,526; published July 10, 1928. Class 32.
Malda Electric Manufacturing Company, Chicago, Ill. Electric sadirons, percolators, and toasters. etc. 247,101–2; Sept. 18; Serial Nos. 256,953–4; published July 3, 1928. Class 21.
Malda Electric Manufacturing Company, Chicago, Ill. Electric sadirons, percolators, toasters, etc. 246,972–3; Sept. 18; Serial Nos. 256,951–2; published July 3, 1928. Class 21.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk, silk and rayon, and silk and wool mixture piece goods. 247,067; Sept. 18; Serial No. 266,941; published July 10, 1928. Class 42.
Manor Food Products Company, Philadelphia, Pa. Potato sticks. 246,826; Sept. 18; Serial No. 262,321; published July 10, 1928. Class 46.
Mars, Ernest P., doing business as Superior Products Company, Chicago, Ill. Abrasive grinding stones. 246,918; Sept. 18; Serial No. 265,441; published June 26, 1928. Class 4.
Mart Guild Incorporated, New York, N. Y. Soap. 246,999; Sept. 18; Serial No. 265,850; published June 19, 1928. Class 4.
Martin, Grace W., doing business as The Martin Company, Winter Garden, Fla. Vegetable relish. 247,110; Sept. 18; Serial No. 263,553; published July 10, 1928. Class 46.
Masarsky, Isaac, doing business as Valley Laboratories, Spring Valley, N. Y. Salve ointment. 246,873; Sept. 18; Serial No. 264,113; published June 12, 1928. Class 6.
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies. 246,968; Sept. 18; Serial No. 256,000; published July 3, 1928. Class 46.
Matchett, James J., Co., New York, N. Y. Candy. 246,895; Sept. 18; Serial No. 265,487; published July 3, 1928. Class 46.
Mayers Company, Incorporated, The, Los Angeles, Calif. Monthly magazine. 247,072; Sept. 18; Serial No. 260,645; published June 26, 1928. Class 38.
McFall, Jesse L., doing business as McFall & Company, St. Louis, Mo. Preparation for cleaning hands. 247,013; Sept. 18; Serial No. 264,897; published June 26, 1928. Class 4.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Shaving soap. 247,134; Sept. 18; Serial No. 266,140; published June 19, 1928. Class 4.
McLeod & Henry Co., Troy, N. Y. Refractory bricks and blocks, etc. 246,869; Sept. 18; Serial No. 264,246; published June 12, 1928. Class 12.
McMillan, Walter C., Inc., New York, N. Y. Colored advertising inserts for magazines. 247,006; Sept. 18; Serial No. 265,229; published June 26, 1928. Class 38.
Mentholatum Company, The, Wichita, Kans., and Buffalo, N. Y. Shaving cream and soap shampoo. 246,955; Sept. 18; Serial No. 257,808; published July 3, 1928. Class 4.
Merchants' News Publishing Co. (See Meyer, August C.)
Messler, Theresa M., doing business as A. R. Messler Co., Schenectady, N. Y. Washing solution with bleaching properties. 246,961; Sept. 18; Serial No. 264,379; published June 26, 1928. Class 4.
Meyer, August C., doing business as Merchants' News Publishing Co., Albany, N. Y. Weekly newspaper. 246,829; Sept. 18; Serial No. 262,573 published July 3, 1928. Class 38.
Midland Chemical Laboratories, Inc., The, Dubuque, Iowa. Cleaning preparation of soap and other ingredients. 247,100; Sept. 18; Serial No. 259,011; published Feb. 14, 1928. Class 4.
Miller, Harry, Chicago, Ill. Ladies' and misses' hats. 247,097; Sept. 18; Serial No. 258,090; published June 12, 1928. Class 39.
Miller, L., and Sons, Incorporated, Long Island City, N. Y. Women's and girls' shoes and slippers. 247,173; Sept. 18. Class 39.
Minerva Cigar Corporation, Inc., New York, N. Y. Cigars. 247,059; Sept. 18; Serial No. 267,201; published July 10, 1928. Class 17.
Mint Gum Company, The, New York, N. Y. Chewing gum. 246,977–8; Sept. 18; Serial Nos. 237,380–1; published Nov. 2, 1926. Class 46.
Mirror, The, New York, N. Y. Soda water, lemon phosphate, etc. 247,018; Sept. 18; Serial No. 263,168; published July 10, 1928. Class 45.
Mirror, The, New York, N. Y. Soda water, lemon phosphate, etc. 247,123; Sept. 18; Serial No. 263,170; published July 10, 1928. Class 45.
Monarch Rubber Heels Co., Inc., Baltimore, Md. Rubber heels, soles, and taps. 246,915; Sept. 18; Serial No. 265,394; published June 12, 1928. Class 39.
Monette Company, Green Bay, Wis. Paper diapers. 246,881; Sept. 18; Serial No. 263,881; published June 19, 1928. Class 37.
Montana Flour Mills Company, also doing business as Bozeman Milling Company, Great Falls, Mont. Wheat flour. 246,950; Sept. 18; Serial No. 266,435; published July 3, 1928. Class 46.
Musher and Company, Washington, D. C. Shortening. 247,002; Sept. 18; Serial No. 265,840; published July 3, 1928. Class 46.
Naamlooze Vennootschap E. Nonck's Koninklijke Fijne Vleeschwaren- en Conservenfabrieken, Amersfoort, Netherlands. Meat and preserves. 246,905; Sept. 18; Serial No. 257,593; published July 3, 1928. Class 46.
National Bellas Hess Co. Inc., New York, N. Y. Towels, toweling, and wash cloths. 246,951; Sept. 18; Serial No. 266,437; published July 10, 1928. Class 42.
National Industrial Conference Board, Inc., New York, N. Y. Monthly publication. 247,016; Sept. 18; Serial No. 266,260; published July 3, 1928. Class 38.
National Industrial Conference Board, Inc., New York, N. Y. Semimonthly publication. 247,017; Sept. 18; Serial No. 266,261; published July 3, 1928. Class 38.
National Machine Tool Company, Racine, Wis. Metal shears. 246,929; Sept. 18; Serial No. 265,676; published July 10, 1928. Class 23.
Nature's Products Company, Los Angeles, Calif. Laxative pills. 247,048; Sept. 18; Serial No. 264,733; published May 29, 1928. Class 6.
Nevitt and Goodwin, Washington, D. C. Candies, cakes, and mayonnaise dressing. 247,089; Sept. 18; Serial No. 257,612; published July 3, 1928. Class 46.
New Era Letter Co. Inc., New York, N. Y. Typewritten and printed letters. 246,899; Sept. 18; Serial No. 265,557; published June 26, 1928. Class 38.
New York Times Company, The, New York, N. Y. Newspaper section. 247,125; Sept. 18; Serial No. 266,214; published July 3, 1928. Class 38.
Nobrega, Frank B., doing business as Central Chemical Company, Kansas City, Mo. Disinfectants. 246,942; Sept. 18; Serial No. 266,327; published June 26, 1928. Class 6.
Nowlin, A. S., & Company, Lynchburg, Va. Coal. 246,885; Sept. 18; Serial No. 246,219; published May 24, 1927. Class 1.
Nu-Song Co. (See Mack, William.)
Nyrayco Importing & Converting Corp., New York, N. Y. Rayon yarns and threads. 246,910; Sept. 18; Serial No. 265,286; published July 3, 1928. Class 43.
Ohio Malt Products Co., Toledo, Ohio. Malt syrup. 246,947; Sept. 18; Serial No. 266,395; published July 3, 1928. Class 46.
Okutani, Frank S., Los Angeles, Calif. Fresh vegetables. 247,151; Sept. 18; Serial No. 266,825; published July 3, 1928. Class 46.
Old Gold Combination White Lead and Color Corporation, New York, N. Y. Paints and painters' materials. 247,120; Sept. 18; Serial No. 263,336; published July 3, 1928. Class 16.
Old Master Laboratories, Inc., New York, N. Y. Dry cleaner for all kinds of cloths and fabrics and a polisher and cleaner for polished metals. 246,954; Sept. 18; Serial No. 257,890; published Jan. 17, 1928. Class 4.
Onondaga Silk Company, Inc., Syracuse and New York, N. Y. Silk fabrics in the piece. 247,146; Sept. 18; Serial No. 266,877; published July 3, 1928. Class 42.
Orange Products Co., Orange, Tex. Canned pork and beans, canned figs and lima beans, etc. 246,964; Sept. 18; Serial No. 254,470; published July 3, 1928. Class 46.
Paper Supply Company, Inc., The, Minneapolis, Minn. School writing books and tablets. 247,020; Sept. 18; Serial No. 250,758; published July 3, 1928. Class 37.
Paradise Koverite Co., New York, N. Y. Infants' carriage covers made of textile. 247,022; Sept. 18; Serial No. 247,867; published July 3, 1928. Class 42.
Paton, John G. Company, Inc., The, New York, N. Y. Honey. 246,997; Sept. 18; Serial No. 265,926; published July 3, 1928. Class 46.
Patsy's Candies, Inc., Colorado Springs, Colo. Candy, candied pop corn, etc. 247,115; Sept. 18; Serial No. 263,512; published July 3, 1928. Class 46.
Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 246,911; Sept. 18; Serial No. 265,292; published July 3, 1928. Class 42.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Shoulder-strap ribbon in the piece or bolt, tablecloths, etc. 246,854; Sept. 18; Serial No. 261,926; published July 3, 1928. Class 42.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Ladies' garters. 247,028; Sept. 18; Serial No. 264,905; published June 12, 1928. Class 39.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Umbrellas. 247,033; Sept. 18; Serial No. 264,909; published June 12, 1928. Class 41.
Pepperell Manufacturing Company, Boston, Mass. Crib blankets and crib sheets of textile material. 247,095; Sept. 18; Serial No. 258,235; published July 3, 1928. Class 42.
Pepperell Manufacturing Company, Boston, Mass. Blankets and bed and crib coverings. 247,141; Sept. 18; Serial No. 266,091; published July 3, 1928. Class 42.
Perkins Marine Lamp Corporation, Brooklyn, N. Y. Electric lamps and lanterns, searchlights, and signs. 246,863; Sept. 18; Serial No. 264,325; published July 3, 1928. Class 21.
Perky, Scott H., doing business as Perky Products, Batavia, N. Y. Cereal food product. 246,948; Sept. 18; Serial No. 266,398; published July 3, 1928. Class 46.
Perugia, André, Paris, France. Satchels, hand bags, vallses, etc. 247,076; Sept. 18; Serial No. 260,134; published July 3, 1928. Class 3.

Peters, W. J., & Cie., Cologne-Rodenkirchen, Germany. Technical linen. 247,122; Sept. 18; Serial No. 268,279; published June 19, 1928. Class 37.
Philippine Tobacco Co., Inc., New York, N. Y. Cigars. 247,058; Sept. 18; Serial No. 267,206; published July 10, 1928. Class 17.
Phippi, Louis P., doing business as The Irvington Company, Cable, Wis. Ointments. 246,886; Sept. 18; Serial No. 244,179; published July 12, 1927. Class 6.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Publication. 247,140; Sept. 18; Serial No. 266,092; published June 19, 1928. Class 38.
Pikes Hikes, Inc., Chicago, Ill. Leather shoes. 246,965; Sept. 18; Serial No. 255,027; published May 15, 1928. Class 39.
Pittsburgh Reflector Company, Pittsburgh, Pa. Lamp reflectors of silvered glass, core lighting reflectors, etc. 247,030; Sept. 18; Serial No. 264,532; published July 3, 1928. Class 34.
Pohlmeyer, Inc., Wallington, N. J. Camel-hair, red and black sable, etc., paintbrushes. 247,078; Sept. 18; Serial No. 259,871; published July 3, 1928. Class 29.
Porcelain Tile Company, Chicago, Ill. Tiles and foundation sheets prepared for the cementing of tiles thereto. 246,871; Sept. 18; Serial No. 264,196; published June 5, 1928. Class 12.
Practical Drafting Institute of America, Chicago, Ill. Correspondence-school lessons. 246,904; Sept. 18; Serial No. 265,498; published June 26, 1928. Class 38.
Premier Laboratories. (See Turcotte, Elmer G.)
Procter & Gamble Company, The, Cincinnati, Ohio. Soap flakes. 246,898; Sept. 18; Serial No. 265,561; published June 19, 1928. Class 4.
Progress Press, The. (See Brauns, Vernon T.)
Prosteel Company, Chicago, Ill. Steel cabinets and cupboards, kitchenette units, etc. 246,996; Sept. 18; Serial No. 265,928; published July 3, 1928. Class 32.
Pyro-Chex Company, St. Louis, Mo. Instrument for massaging the gums. 247,124; Sept. 18; Serial No. 266,216; published July 3, 1928. Class 44.
Rand Kardex Service Corporation, Tonawanda, assignor to Remington Rand Business Service Corporation, New York, N. Y. Blank and partially-printed cards and forms for indexes, etc. 247,084; Sept. 18; Serial No. 255,821; published July 3, 1928. Class 37.
Reckitt & Sons, Limited, Hull, England. Polishing and cleaning preparations for glass. 246,952; Sept. 18; Serial No. 266,440; published July 3, 1928. Class 4.
Redlands Select Groves, Inc., Redlands, Calif. Fresh citrus fruits. 247,170; Sept. 18. Class 46.
Reinau, Erich, Berlin-Steglitz, Germany. Fertilizing material. 247,139; Sept. 18; Serial No. 266,099; published July 3, 1928. Class 10.
Remington Rand Business Service Corporation. (See Rand Kardex Service Corporation, assignor.)
Rex Leather Goods Corp., New York, N. Y. Brief cases and school bags. 247,003–4; Sept. 18; Serial Nos. 265,808–9; published July 10, 1928. Class 3.
Rhodia Chemical Company, New York, N. Y. Natural or synthetic oils, photographic chemicals, etc. 246,888–9; Sept. 18; Serial Nos. 243,885–6; published Mar. 13, 1928. Class 6.
Richter, Charles, doing business as J. M. Anthony & Co., Providence, R. I. Cigars. 247,145; Sept. 18; Serial No. 266,884; published July 10, 1928. Class 17.
Rocco Brothers. (See B. R. M. Company, assignee.)
Rocky Hill Corporation, Exeter, Calif. Fruits. 246,920; Sept. 18; Serial No. 257,484; published Jan. 17, 1928. Class 46.
Roth, O., & Co. A.-G. Export in Schweizerkäse (Emmenthaler), Uster, Switzerland. Cheese. 246,825; Sept. 18; Serial No. 262,181; published July 10, 1928. Class 46.
Rothschild, John, & Co. Inc., San Francisco, Calif. Canned deciduous fruits, canned vegetables. 247,054; Sept. 18; Serial No. 252,066; published July 10, 1928. Class 46.
Rowe, Howard A., Omaha, Nebr. Mineral water. 246,903; Sept. 18; Serial No. 265,500; published July 3, 1928. Class 45.
Rubay Candy Company, The, Cleveland, Ohio. Candies. 246,839; Sept. 18; Serial No. 262,936; published July 10, 1928. Class 46.
Ruble Blade Corporation, New York, N. Y. Razor blades. 246,846; Sept. 18; Serial No. 261,458; published July 3, 1928. Class 23.
Ryan, Edwin J., Chicago, Ill. Printed publication. 246,849; Sept. 18; Serial No. 261,652; published July 3, 1928. Class 38.
Salter Canning Company, North Rose, N. Y. Canned berries, fruits, and vegetables. 246,913; Sept. 18; Serial No. 265,298; published July 10, 1928. Class 46.
San Diego Fruit Company. (See Chula Vista Citrus Association.)
San Juan Fishing & Packing Co., Seattle, Wash. Fresh, salt, and pickled fish. 246,971; Sept. 18; Serial No. 256,544; published July 3, 1928. Class 46.
Sands Manufacturing Company, The, Cleveland, Ohio. Thermosiphon discharge fittings for fluid-holding tanks. 247,118; Sept. 18; Serial No. 263,420; published July 3, 1928. Class 13.
SaniBel Company, The. (See Caskin, Langdon.)
Schicht, Georg., A. G., Aussig, Czechoslovakia. Margarine. 247,094; Sept. 18; Serial No. 258,592; published July 3, 1928. Class 46.
Scotch Malt Company. (See Silver, Jacob M.)
Scott, Allen C., doing business as Scott Manufacturing Company, Omaha, Nebr. Shipping containers. 247,172; Sept. 18. Class 2.
Scoville & Co., Inc., San Juan, P. R. Canned fruits. 247,049; Sept. 18; Serial No. 264,737; published July 3, 1928. Class 46.
Seeth, John F., Bellerose, N. Y. Canned clam chowder. 246,985; Sept. 18; Serial No. 266,051; published July 10, 1928. Class 46.
Seligsohn, Jacob, doing business as Advance Thread Co., New York, N. Y. Thread. 247,168; Sept. 18. Class 43.
Servel, Inc., Evansville, Ind. Trade journals published from time to time. 246,837; Sept. 18; Serial No. 262,874; published June 26, 1928. Class 38.
Shainin, L., & Co., New York, N. Y. Base-metal bowls, candy dishes, flower holders, etc. 246,847; Sept. 18; Serial No. 261,462; published July 3, 1928. Class 13.
Shamrock Cordial Co. (See Davies, Bessie N.)
Shapiro, Ira J., New York, N. Y. Razor blades. 246,988; Sept. 18; Serial No. 265,988; published July 3, 1928. Class 23.
Sheertex Hosiery Company, Woodbury, N. J. Hosiery. 246,935–6; Sept. 18; Serial Nos. 265,170–1; published June 12, 1928. Class 39.
Shepard, Joseph C., Wilmington, N. C. Ready-mixed paints, varnishes, floor dressings, and fillers. 246,928; Sept. 18; Serial No. 265,699; published July 3, 1928. Class 16.
Silver, Jacob M., doing business as Scotch Malt Company, Hartford, Conn. Malt syrup. 246,843; Sept. 18; Serial No. 261,222; published July 3, 1928. Class 46.
Sinclair Refining Company, New York, N. Y. Lubricating oils. 247,014; Sept. 18; Serial No. 266,223; published July 3, 1928. Class 15.
Sitroux Importing Co., Inc., assignor to The Sterilek Company, Inc., New York, N. Y. Sanitary napkins. 246,887; Sept. 18; Serial No. 244,113; published Sept. 13, 1927. Class 44.
Smith, Albert D., & Co., New York, N. Y. Cotton piece goods and shade cloth. 246,995; Sept. 18; Serial No. 265,932; published July 10, 1928. Class 42.
Smith, J. W., & Sons, doing business as Smithson, New York, N. Y. Men's and boy's suits, topcoats, and overcoats. 247,086; Sept. 18; Serial No. 265,021; published June 19, 1928. Class 39.
Societe Anonyme Dongo, Courbevoie, France. Toilet soaps and shaving soaps. 246,939; Sept. 18; Serial No. 266,280; published June 19, 1928. Class 4.
Splitdorf Radio Corporation, Newark, N. J. Radiocabinets, loud-speaker cabinets, etc. 246,994; Sept. 18; Serial No. 265,934; published July 10, 1928. Class 32.
Squire Dingee Company, Chicago, Ill. Canned vegetables, canned deciduous fruits, etc. 247,104; Sept. 18; Serial No. 264,781; published July 3, 1928. Class 46.
Standard Apple Products Inc., Hamlin, N. Y. Evaporated apples. 246,993; Sept. 18; Serial No. 265,935; published July 3, 1928. Class 46.
Standard Drug Company, Los Angeles, Calif. Automobile top and fabric dressing. 247,138; Sept. 18; Serial No. 266,108; published June 26, 1928. Class 4.
Sterilek Company, Inc., The. (See Sitroux Importing Co., Inc.)
Stone, Sam'l., doing business as The Stone Malt Co., Columbus, Ohio. Malt syrup. 247,007; Sept. 18; Serial No. 264,783; published June 19, 1928. Class 46.
Stoody Company, Whittier, Calif. Metal alloy. 247,133; Sept. 18; Serial No. 266,153; published July 3, 1928. Class 14.
Style-Rite Dress Company, The, Cleveland, Ohio. Dresses. 246,984; Sept. 18; Serial No. 256,749; published Apr. 10, 1928. Class 39.
Superior Products Company. (See Mars, Ernest P.)
Susquehanna Silk Mills, New York, N. Y. Rayon and silk piece goods. 246,897; Sept. 18; Serial No. 265,587; published June 26, 1928. Class 42.
Swanson, William A., Dallas, Tex. Display cabinet for greeting cards. 247,161; Sept. 18; Serial No. 266,630; published July 3, 1928. Class 32.
Taylor Manufacturing Corporation, Los Angeles, Calif. Brake-testing machines. 246,859; Sept. 18; Serial No. 262,043; published July 10, 1928. Class 26.
Teague-McKevett Company, Santa Paula, Calif. Oranges, lemons, and grapefruit. 246,019; Sept. 18; Serial No. 250,871; published July 10, 1928. Class 46.
Texas Vegetable Oil Co., San Antonio, Tex. Vegetable shortening. 247,150; Sept. 18; Serial No. 266,840; published July 3, 1928. Class 46.
Thomas, Reginald C., Brooklyn, N. Y. Ash trays and cigar and cigarette extinguishers. 246,963; Sept. 18; Serial No. 254,366; published July 10, 1928. Class 8.
Thompson, Edward, Company, Northport, N. Y. Monthly magazine. 247,129; Sept. 18; Serial No. 266,194; published July 3, 1928. Class 38.
Thompson's Dairy, Washington, D. C. Eggs, butter, cheeses, milk, and cream. 247,158; Sept. 18; Serial No. 266,692; published July 3, 1928. Class 46.
Tiffany & Company, New York, N. Y. Tobacco pipes, cigar and cigarette holders, etc. 247,061; Sept. 18; Serial No. 267,156; published July 10, 1928. Class 8.
Tileston & Hollingsworth Company, Boston, Mass. Writing and other paper. 247,034; Sept. 18; Serial No. 264,543; published June 26, 1928. Class 37.
Time, Incorporated, New York, N. Y. Magazine. 246,868; Sept. 18; Serial No. 264,266; published June 19, 1928. Class 38.

Titmus Optical Company, Inc., Petersburg, Va. Optical lenses. 247,106; Sept. 18; Serial No. 263,840; published July 10, 1928. Class 26.
Toledo Scale Company, Jersey City, N. J., and Toledo, Ohio. House organ. 247,069; Sept. 18; Serial No. 266,058; published July 3, 1928. Class 38.
Toolley Cake Corporation, New York, N. Y. Cakes. 246,925; Sept. 18; Serial No. 265,740; published July 3, 1928. Class 46.
Trinidad Lake Petroleum Company, Limited, The, assignor to The Trinidad Lake Asphalt Operating Company, Limited, Trinidad, British West Indies. Road binder. 247,093; Sept. 18; Serial No. 259,263; published June 19, 1928. Class 12.
Triumph Electric Corporation, The, Cincinnati, Ohio. Electric motors. 246,927; Sept. 18; Serial No. 265,707; published July 3, 1928. Class 21.
Turcotte, Elmer G., doing business as Premier Laboratories, Providence, R. I. Cleaning fluid. 247,070; Sept. 18; Serial No. 266,061; published June 26, 1928. Class 4.
Tuttle Press Company, The, Appleton, Wis. Metallic-coated paper. 247,108; Sept. 18; Serial No. 263,736; published June 19, 1928. Class 37.
Tybon Corporation, Camden, N. J. Mechanical devices for rewinding ribbons. 247,043; Sept. 18; Serial No. 264,545; published July 10, 1928. Class 23.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarns. 247,057; Sept. 18; Serial No. 267,294; published July 10, 1928. Class 43.
Union Products Company, The, Cleveland, Ohio. Asphalt compounds. 246,875; Sept. 18; Serial No. 263,985; published June 26, 1928. Class 12.
Universal Tile Corporation of America, Milledgeville, Ga. Hollow tile building blocks. 247,032; Sept. 18; Serial No. 264,928; published June 19, 1928. Class 12.
Valley Laboratories. (See Masarsky, Isaac.)
Van Buren County Canning Company, Hartford, Mich. Canned vegetables and fruits, noodles, etc. 247,092; Sept. 18; Serial No. 259,476; published July 3, 1928. Class 46.
Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Fence wire, wire gauze, barbed wire, etc. 246,845; Sept. 18; Serial No. 261,293; published July 3, 1928. Class 13.
Village Blacksmith Folks, The, Watertown, Wis. Grass and weed cutters. 247,098; Sept. 18; Serial No. 258,052; published July 3, 1928. Class 23.
Von Koborn zu Kornegg, Oscar F., doing business as Oscar Koborn & Co., Vienna, Austria. Textile machines. 247,074; Sept. 18; Serial No. 260,543; published July 10, 1928. Class 23.
Vulcan Crucible Steel Co., Aliquippa, Pa. Steel. 247,008; Sept. 18; Serial No. 264,785; published July 3, 1928. Class 14.
Waldo, E. M. & F., Inc., Muirkirk, Md. Combination of metallic oxides. 246,987; Sept. 18; Serial No. 265,999; published June 19, 1928. Class 6.
Walker, George, Boston, Mass. Ship's shaft-revolution indicator. 247,142; Sept. 18; Serial No. 262,274; published July 3, 1928. Class 26.
Warren Manufacturing Company, The, Riegelsville, N. J., and New York, N. Y. Waxed wrapping paper and waxed paper. 247,157; Sept. 18; Serial No. 266,696; published July 3, 1928. Class 37.
Waterman, L. E., Company, New York, N. Y. Fountain pens. 247,087; Sept. 18; Serial No. 257,834; published June 26, 1928. Class 37.
Webb Belting Co., Kansas City, Mo. Belt dressing. 246,926; Sept. 18; Serial No. 265,708; published July 3, 1928. Class 4.
Webb Belting Co., Kansas City, Mo. Solid round belt. 246,992; Sept. 18; Serial No. 265,937; published July 3, 1928. Class 35.
Weil, Joseph A., Evanston, Ill. Chemical compound. 246,974; Sept. 18; Serial No. 257,647; published June 19, 1928. Class 6.
Weston, Byron, Company, Dalton, Mass. Writing and cover paper. 247,012; Sept. 18; Serial No. 264,869; published June 19, 1928. Class 37.
Whitcup, Lester, New York, N. Y. Safety-razor blades. 247,060; Sept. 18; Serial No. 267,171; published July 10, 1928. Class 28.
White and Hallock, Inc., Muskegon, Mich. Beaters for culinary purposes. 246,922; Sept. 18; Serial No. 257,209; published July 3, 1928. Class 23.
Wide Awake Shirt Company, Inc., Reading, Pa. Shirts. 247,165; Sept. 18. Class 39.
Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Domestic refrigerating machines. 246,834; Sept. 18; Serial No. 262,834; published July 3, 1928. Class 31.
Wilson Rayon Products Corporation, New York, N. Y. Rayon fabrics. 247,062; Sept. 18; Serial No. 267,023; published July 10, 1928. Class 42.
Wright Manufacturing Company, Inc., Philadelphia, Pa. Vigil-light cups composed of glass. 247,137; Sept. 18; Serial No. 266,113; published July 3, 1928. Class 33.
Wynn, C. W., Selma, Ala. Fish lures. 246,883; Sept. 18; Serial No. 246,800; published July 3, 1928. Class 22.
Zaring, C. W., & Co., Jacksonville, Fla. Coffee, tea, canned meats, etc. 247,051; Sept. 18; Serial No. 252,539; published Feb. 21, 1928. Class 46.
Zebest Products Co. of California. (See Levy, Harrison M.)
Zip Abrasive Company, The, Cleveland, Ohio. Lubricating oils. 246,991; Sept. 18; Serial No. 265,938; published July 3, 1928. Class 15.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Spearmint. For Chewing Gum. 34,581–2; Sept. 18.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut "Mints" Clove. For Candy. 34,583; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. J. B. Ivey & Co. For Boxes. 34,585; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Helfand Shoe Co., Inc. For Boxes. 34,586; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Miller & Rhoads. For Boxes. 34,587; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Berkshire Footwear Corp. For Boxes. 34,588; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Sill's. For Boxes. 34,589; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Princess Boot Shop. For Boxes. 34,590; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Stylo. For Boxes. 34,591; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Parisian Modes. For Boxes. 34,592; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Smart Shop. For Boxes. 34,593; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Cox Brothers. For Boxes. 34,594; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Mirror Shoe Stores. For Boxes. 34,595; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Styler. For Boxes. 34,596; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. The Puss in Boots. For Boxes. 34,597; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Tufsole Shoes. For Boxes. 34,598; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Muhlfelders Inc. For Boxes. 34,599; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Churchwells. For Boxes. 34,600; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Ben Lewis. For Boxes. 34,601; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Stix, Baer & Fuller. For Boxes. 34,602; Sept. 18.
Hoague-Sprague Corporation, Lynn, Mass. Sheridan Square. For Boxes. 34,603; Sept. 18.
Lehnert, W. C., Baltimore, Md. Original Frederick. For Malt Syrup. 34,584; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. To The Wise Smoker. For Dental Cream. 34,604; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. It May Seem Strange But Adults Are Beginning to Take Castor Oil. For Castor Oil. 34,605; Sept. 18.
St. Helena Bottling & Cold Storage Company, St. Helena, Calif. Napa Valley Pale Dry Ginger Ale. For Ginger Ale. 34,606; Sept. 18.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Cream of Wheat Co., Minneapolis, Minn. Little Adventurers! New, Better Ways to Guide Them. For Wheat Breakfast Food. 11,212; Sept. 18.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. P. A.? You Bet It Is. For Tobacco. 11,213; Sept. 18.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. You're What I Call A Friend. For Tobacco. 11,214; Sept. 18.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. You Can't Beat It, Men. For Tobacco. 11,215; Sept. 18.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. I'll Make a Prediction. For Tobacco. 11,216; Sept. 18.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. It's Time You Got Squared Away. For Tobacco. 11,217; Sept. 18.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. All The Day Through. For Tobacco. 11,218; Sept. 18.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. They Told Me To Try P. A. For Tobacco. 11,219; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. To Administer Castor Oil Easily—Use Squibb's—It Is Tasteless And Odorless. For Castor Oil. 11,220; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. Serving A Science That Safeguards Life. For Bicarbonate of Soda, Epsom Salt, Tasteless Castor Oil, Milk of Magnesia. 11,221; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. Cleaning Your Teeth Should Be More Than A Habit. For Dental Cream. 11,222; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. Every Year 2,000,000 Sick-Beds Are Occupied Because Of Preventable Sickness. For Bicarbonate of Soda, Epsom Salt, Milk of Magnesia, Castor Oil, Etc. 11,223; Sept. 18.
Squibb, E. R., & Sons, doing business as Squibb, New York, N. Y. To All Men With "Hair-Trigger" Skins a Word About Hydrolysis. For Shaving Cream. 11,224; Sept. 18.
Squibb, E. R., & Sons, doing business as Squibb, New York, N. Y. This Great New Shaving Cream Saves Your Skin. For Shaving Cream. 11,225; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. First Aid To Smokers. For Dental Cream. 11,226; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. Breaking In. For Dental Cream. 11,227; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. On These Hot Days Protect Your Health. For Milk of Magnesia. 11,228; Sept. 18.
Squibb, E. R., & Sons, doing business as Squibb, New York, N. Y. No Need To Put Up With Hydrolysis. For Shaving Cream. 11,229; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. Simple Facts About Caring For Your Teeth And Gums. For Dental Cream. 11,230; Sept. 18.
Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. You Can Control Hydrolysis—That Enemy To Pleasant Shaving. For Shaving Cream. 11,231; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. What Happens When You Clean Your Teeth. For Dental Cream. 11,232; Sept. 18.
Squibb, E. R., & Sons, New York, N. Y. 5 Years Old And 52 Teeth. For Dental Cream. 11,233; Sept. 18.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A/S Si-Ko, Oslo, Norway. Tooth paste. 268,260; Sept. 18. Class 6.
Abbott Finishing Corporation, The, Wakefield, Mass. Preparations for polishing or softening leather. 269,067; Sept. 18. Class 4.
Aesthete, Inc., The, Chicago, Ill. Monthly magazine. 270,452; Sept. 18. Class 38.
Air-Way Motor Oil Company, Chicago, Ill. Lubricating oils and greases. 268,900; Sept. 18. Class 15.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet paper. 268,525; Sept. 18. Class 37.
Alexiades, Manuel, Madrid, Spain. Preparation to be used by injection in treating phthisis, etc. 266,450; Sept. 18. Class 6.
Allen Air Appliance Company, Inc., New York, N. Y. Pneumatic apparatus and equipment. 269,931; Sept. 18. Class 23.
Allen, Horace L., Mfg. Co., Nashville, Tenn. Shirts. 269,271; Sept. 18. Class 39.
American Fruit Distributors, Inc., Jacksonville, Fla. Fresh oranges and grapefruit. 268,202; Sept. 18. Class 46.
American Medical Publishing Company, The, New York, N. Y. Periodical published monthly. 270,312; Sept. 18. Class 38.
American Oil Corporation, Jackson, Mich. Lubricating oils, greases, and compounds. 269,217; Sept. 18. Class 15.
Ampt, Charles F., doing business as The Charles F. Ampt Company, Columbia Township, Hamilton County, Ohio. Medicated candy. 270,529; Sept. 18. Class 6.
Amtorg Trading Corporation, New York, N. Y. Matches. 270,870–1; Sept. 18. Class 2.
Anderson, Clarence M., Oklahoma City, Okla. Inclosures for prescriptions and file cabinets. 270,106; Sept. 18. Class 32.
Andrews, Clifton C., Shaker Heights, Ohio. Temporary covers and binders. 270,910; Sept. 18. Class 37.
Arima Soap Paste Co. (See Johnson, Howard.)
Ark, Miles W., Rochester, N. Y. Magazine. 270,274; Sept. 18. Class 38.
Art Importing Co. (See Gilbert, Gustav.)
Associated Paper Company, Chicago, Ill. Paper and paper products. 266,639; Sept. 18. Class 37.
Association of Newspaper Classified Advertising Managers, St. Louis, Mo. Monthly publication. 269,076; Sept. 18. Class 38.
Babchin, Leo, New York, N. Y. Pearl necklaces and strings of pearls, etc. 263,810; Sept. 18. Class 28.
Badagliacca Inc., Paterson, N. J. Shoes. 270,662; Sept. 18. Class 39.
Bakers Supply & Equipment Co., St. Paul, Minn. Electric bake ovens. 268,728; Sept. 18. Class 21.
Barnes, W. O., Co. Inc., Detroit, Mich. Saws. 270,735; Sept. 18. Class 23.
Barnett, Isador, doing business as Barnett Janitor Supply Co., New York, N. Y. Metal-polishing cream, soap powder, etc. 266,706; Sept. 18. Class 4.
Barouh, Hermanos, Habana, Cuba. Perfumes, toilet powders, and toilet waters. 263,914; Sept. 18. Class 6.
Bercy Laboratories. (See Fleron, M. M., & Son, Inc.)
Berg, Charles F., Portland, Oreg. Hosiery. 270,227; Sept. 18. Class 39.
Bissiri, Adriano A., doing business as B. C. Ree Co., Los Angeles, Calif. Foldable toy aeroplanes. 270,006; Sept. 18. Class 22.
Bitterman, Simon, doing business as Jeru Artichoke Products Company, Denver, Colo. Artichoke flakes. 268,670; Sept. 18. Class 46.
Bolotin & Sheinin, Chicago, Ill. Wedding rings, ring mountings, and diamond rings. 268,962; Sept. 18. Class 28.
Booth Fisheries Company, Chicago, Ill. Canned salmon. 267,232; Sept. 18. Class 46.
Boyd-Richardson Company, St. Louis, Mo. Shirts. 268,206; Sept. 18. Class 39.
Brach, E. J., & Sons, Chicago, Ill. Candy. 270,570; Sept. 18. Class 46.
Brighton Mills, Allwood, N. J.; Shannon, Ga.; and Passaic, N. J. Netted woven cord laundry bags of cotton. 270,365; Sept. 18. Class 2.
Brigstocke, Mortimer K., Catskill, N. Y. Nickel, silver, aluminum, and glass polish. 258,717; Sept. 18. Class 4.
Burton-Dixie Corporation, Chicago, Ill. Metal bed springs. 270,534; Sept. 18. Class 32.
California Rex Spray Co., Benicia, Calif. Preparation for destroying rodents. 269,941; Sept. 18. Class 6.
Capital City Baking Co., Harrisburg, Pa. Cakes and bread. 265,194; Sept. 18. Class 46.
Capital Paper Company, Indianapolis, Ind. Toilet paper. 266,713; Sept. 18. Class 37.
Capital Paper Company, Indianapolis, Ind. Wrapping paper. 267,238; Sept. 18. Class 37.
Chemische Fabrik von Heyden, A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Medicinal preparation. 267,931–2; Sept. 18. Class 6.
Chula Vista Citrus Association, Chula Vista, Calif. Fresh citrus fruits. 269,511; Sept. 18. Class 46.
Circle Lunch Corporation of America, Reno, Nev., and Los Angeles, Calif. Baked stuffs. 265,950; Sept. 18. Class 46.
Citrus Products Company, Chicago, Ill. Beverages and compounds for making the same. 269,768; Sept. 18. Class 45.
Clark, Charles S., Co., New York, N. Y. Bridge-prize wrappings. 270,463; Sept. 18. Class 37.
Cohen, Joseph H., doing business as The Perfection Motor Products Company, Bridgeport, Conn. Electric cigar lighters. 268,585; Sept. 18. Class 21.
Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Multiple electric connecting devices. 256,604; Sept. 18. Class 21.
Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Tobacco containers, tobacco-pipe holders. 268,776; Sept. 18. Class 8.
Crown Paint & Color Works, Los Angeles, Calif. Paints, varnishes, paint enamels, etc. 234,380; Sept. 18. Class 16.
Curtiss Candy Company, The, Chicago, Ill. Peanuts. 266,978; Sept. 18. Class 46.
Dean, O. W., doing business as Korodyne Company, St. Joseph, Mich. Preparation for the treatment of asthma. 269,641; Sept. 18. Class 6.
Dearborn Chemical Company, Chicago, Ill. Motor-lubricating oils. 268,850; Sept. 18. Class 15.
Dickens Fellowship of New York, Inc., The, New York, N. Y. Periodical publication. 270,239; Sept. 18. Class 38.
Dorf, Morris, doing business as Dorf & Company, Baltimore, Md. Caps. 268,216; Sept. 18. Class 39.
Duggar, Llewellyn G., Hope Hull, Ala. Disinfectant. 249,266; Sept. 18. Class 6.
Duncan May Candy Co. Inc., Montgomery, Ala. Stick candy. 264,753; Sept. 18. Class 46.
Duncan, William, doing business as Python Grip Brake & Equipment Co., Los Angeles, Calif. Brake lining. 270,693; Sept. 18. Class 35.
Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Eback, Edward, doing business as Eback Mfg. Co., Indianapolis, Ind. Automobile cleaning and polishing liquid. 266,856; Sept. 18. Class 16.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Elco Shoe Manufacturers, Inc., Brooklyn, N. Y. Shoes. 268,975; Sept. 18. Class 39.
Ellison Furniture & Carpet Co., Fort Worth, Tex. Mattresses, bed springs, etc. 270,630; Sept. 18. Class 32.
Emerson Shoe Manufacturing Company, Rockland, Mass. Shoes. 270,241; Sept. 18. Class 39.
Em-It-Products Company, Snyder, Tex. Pickles. 270,695; Sept. 18. Class 46.
Engel, Joseph, Company, New York, N. Y. Coats, suits, and dresses. 269,776; Sept. 18. Class 39.
Entress, Franz, Nurtingen, Germany. Hosiery, gloves, jackets, etc. 263,209; Sept. 18. Class 39.
Evans Case Company, North Attleboro, Mass. Brooch pins. 268,686; Sept. 18. Class 28.
Experimenter Publishing Company, Inc., New York, N. Y. Publication. 267,549; Sept. 18. Class 38.
Fairchild Aviation Corporation, New York, N. Y. Motor boats. 269,649; Sept. 18. Class 19.
Falls City Ice & Beverage Company, Louisville, Ky. Beverage. 269,724; Sept. 18. Class 48.
Federal Date and Fig Company, Detroit, Mich. Packages of washed dried figs. 261,299; Sept. 18. Class 46.
Federal Distributing Company, Newark, N. J. Incandescent lamps. 261,748; Sept. 18. Class 21.
Federal Mail Order Corporation, New York, N. Y. Watches, watch movements, etc. 268,859; Sept. 18. Class 27.
Fine and Levy, Inc., New York, N. Y. Children's hats. 270,416; Sept. 18. Class 39.
Florita Nut Company, St. Louis, Mo. Fresh, stuffed, and candied dates and toasted and salted nuts. 251,328; Sept. 18. Class 46.
Fleron, M. M., & Son, Inc., doing business as Bercy Laboratories, Trenton, N. J. Hairdressing. 269,650; Sept. 18. Class 6.
Flis, Stanislaw, and Mateusz Kasprzak, Gowanda, N. Y. Envelopes. 263,052; Sept. 18. Class 37.
Floatstone Products Company, Las Vegas, Nev. Diatomaceous earth. 269,727; Sept. 18. Class 1.
Ford Motor Company, Fordson, Mich. Speedometers, ammeters, etc. 268,595; Sept. 18. Class 26.
Ford Motor Company, Fordson, Mich. Plate glass and lenses for automobiles. 269,521; Sept. 18. Class 33.
Forhan Company, New York, N. Y. Pyorrhea preparation and dentifrice. 269,063; Sept. 18. Class 6.
Frank & Cohen Silk Corp., New York, N. Y. Fabrics. 267,042; Sept. 18. Class 42.
French, Shriner & Urner, Boston, Mass. Boots and shoes. 261,561; Sept. 18. Class 39.
Frenchie Frocks, Inc., San Francisco, Calif. Wash frocks, staple and novelty smocks, and aprons. 268,538; Sept. 18. Class 39.
Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Metallic carbides and their alloys. 267,800; Sept. 18. Class 14.
Frink, Robert L., Lancaster, Ohio. Refractories and refractory materials. 258,740; Sept. 18. Class 12.
G. McC. Company. (See McCloskey, George.)
Garcia y Miranda, Juan M., Madrid, Spain. Soaps. 266,871; Sept. 18. Class 4.
General Alloys Company, Boston, Mass. Castings of metal alloys. 268,344; Sept. 18. Class 14.
General Petroleum Corporation of California, San Francisco, Calif. Gasoline. 269,895; Sept. 18. Class 15.
Gilbert, Gustav, doing business as Art Importing Co., Philadelphia, Pa. Artists' oil colors. 269,188; Sept. 18. Class 16.
Godefroy Manufacturing Company, St. Louis, Mo. Skin cream. 268,922; Sept. 18. Class 6.
Goldhill, Edward S., New York, N. Y. Doughnuts. 269,582; Sept. 18. Class 46.
Goodrich, B. F., Company, The, New York, N. Y. Rubber vehicle tires. 268,433; Sept. 18. Class 35.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Alarm clocks. 268,924; Sept. 18. Class 27.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Hosiery and work shirts. 269,842; Sept. 18. Class 39.
Grigsby-Grunow Company, Chicago, Ill. Phonographs and phonograph records. 269,114; Sept. 18. Class 36.
Gring, R. M., doing business as New Bloomfield Hosiery Mills, New Bloomfield, Pa. Cotton half hose. 267,444; Sept. 18. Class 39.
Guntrath-Lorenzen Co., Chicago, Ill. Dessert and pudding powder. 269,956; Sept. 18. Class 46.
Hagan, Lee, Atlanta, Ga. Sandwiches. 269,780; Sept. 18. Class 46.
Halosine Company, Philadelphia, Pa. Antiseptic deodorant, prophylactic, scalp tonic, etc. 265,212; Sept. 18. Class 6.
Hammer Beverages. (See Rascoff, David.)
Hanlon & Goodman Co., Belleville, N. J. Paintbrushes, varnish brushes, etc. 268,784; Sept. 18. Class 29.
Harris, John J., doing business as No Equal Products Co., Chicago, Ill. Dentifrices, dental creams, etc. 267,707; Sept. 18. Class 6.
Harris, L., Company, Pittsburgh, Pa. Cigars and stogies. 270,377; Sept. 18. Class 17.
Hawkey, Joseph P., Philadelphia, Pa. Novelty transfer crayons. 266,730; Sept. 18. Class 22.
Hazen Paper Co., Holyoke, Mass. Coated book papers, bond papers, etc. 270,932; Sept. 12. Class 37.
Helland, John, Co., Chicago, Ill. Medicine. 270,844; Sept. 18. Class 6.
Helland, John, Co., Chicago, Ill. Medicine. 270,845; Sept. 18. Class 6.
Hexter Bros., Cleveland, Ohio. Card-display rack. 270,635; Sept. 18. Class 32.
Hickey-Freeman Co., Rochester, N. Y. Men's suits. 270,424; Sept. 18. Class 39.
Hollings-Smith Co., Orangeburg, N. Y. Medicine. 270,484; Sept. 18. Class 6.
Holloway, M. J., & Co., Chicago, Ill. Candy. 270,294–5; Sept. 18. Class 46.
Hookless Fastener Company, Meadville, Pa. Separable fasteners. 269,783; Sept. 18. Class 13.
Hoos'er Apple and Peach Growers, Inc., Indianapolis, Ind. Fresh fruits. 260,826; Sept. 18. Class 46.
Hope, Reginald J. H., doing business as Hope, Hartope & Co., London, England. Materials for cleaning. 245,213; Sept. 18. Class 4.
Hudson, J. L., Company, The, Detroit, Mich. Hosiery. 264,306; Sept. 18. Class 39.
Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits. 270,770; Sept. 18. Class 46.
Hunt-Rankin Leather Co., Boston, Mass. Leathers. 269,661; Sept. 18. Class 1.
Huth & James Shoe Manufacturing Company, Milwaukee, Wis. Boots, shoes, and slippers. 270,028; Sept. 18. Class 39.
Hyman, Max, & Co., Inc., New York, N. Y. Woolen goods in the piece. 269,408; Sept. 18. Class 42.
Ideal Novelty & Toy Co., Brooklyn, N. Y. Dolls. 269,787; Sept. 18. Class 22.
Imperial Candy Co., Seattle, Wash. Candy. 270,186; Sept. 18. Class 46.
International Agricultural Corporation, New York, N. Y. Fertilizers. 267,960; Sept. 18. Class 10.
International Journal of Surgery Co., Inc., New York, N. Y. Periodical published monthly. 270,336; Sept. 18. Class 38.
International Musical Corporation, Hoboken, N. J. Stringed musical instruments. 268,015; Sept. 18. Class 36.
Iron King Overall Company, Baltimore, Md. Overalls, pants, work shirts, etc. 264,645–6; Sept. 18. Class 39.
Jackson Brewing Company, New Orleans, La. Nonalcoholic malt cereal. 269,960; Sept. 18. Class 48.
Japan Paper Company, New York, N. Y. Decorative tissue paper. 266,429; Sept. 18. Class 37.
Jeddo-Highland Coal Company, Jeddo, Pa. Coal. 251,560; Sept. 18. Class 1.
Jennings, L. T., Company, Inc., The, Saginaw, Mich. Foundation garments. 263,654; Sept. 18. Class 39.
Jeru Artichoke Products Company. (See Bitterman, Simon.)
Johnson, Howard, doing business as Arima Soap Paste Co., Bethlehem, Pa. Soap paste. 270,747; Sept. 18. Class 4.
Kadiak Fisheries Company, Seattle, Wash. Canned salmon. 270,796; Sept. 18. Class 46.
Keller Knitting Company, The, Cleveland, Ohio. Knitted sweaters, sweater coats, and jackets for men, women, and children. 267,774; Sept. 18. Class 39.
Kinerk, E., Indianapolis, Ind. Hosiery. 255,715; Sept. 18. Class 39.
Klein, Lazare, Company, San Francisco, Calif. Dresses. 267,970; Sept. 18. Class 39.
Kluge, Emile H., West New York, N. J. Political novelty or campaign package. 270,190; Sept. 18. Class 42.
Korodyne Company. (See Dean, O. W.)
Kotar Chemical Company, The. (See Weinberger Drug Company, The.)
Kristol-Kold Company, Detroit, Mich. Refrigerators and refrigerating apparatus. 269,770; Sept. 18. Class 31.
La Crosse Garment Co., La Crosse, Wis. Women's house dresses, frocks, and dresses. 252,716; Sept. 18. Class 39.
La Société L. Blanchard & Cie., Paris, France. Clothing. 258,130; Sept. 18. Class 39.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Wheat and self-rising flour. 269,592; Sept. 18. Class 46.
Lazard, Raymond, Paris, France. Stockings. 269,356; Sept. 18. Class 39.
Lentino, Antonio, doing business as Quinolive Company, Boston, Mass. Hair tonic. 269,669; Sept. 18. Class 6.
Lillie Mill Company, Franklin, Tenn. Wheat flour. 265,976; Sept. 18. Class 46.
Line-a-time Manufacturing Company Incorporated, Rochester, N. Y. Copyholders for typewriters. 260,393; Sept. 18. Class 37.
Littlejim Co. (See Rosenheim, James H.)
Lubow, George W., New York, N. Y. Razor blades. 270,710; Sept. 18. Class 23.
Lush'us Products Co., Chicago, Ill. Canned peas. 268,739; Sept. 18. Class 46.
Macy, R. H., & Co., Inc., New York, N. Y. Subtitle to newspaper articles which appear daily. 231,389; Sept. 18. Class 38.
Madden, William T., doing business as Serv-U-Wel Bakery and Serv-U-Wel Markets, Zanesville, Ohio. Coffee, creamery butter, and bread. 269,674; Sept. 18. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Magic Swan Co., The. (See Southworth, Ralph W. E.)
Mallas, Louis J., Inc., New York, N. Y. Dresses, skirts for outer wear, panties, etc. 268,874; Sept. 18. Class 39.
Manville Jenckes Company, Pawtucket, R. I. Voile in the piece of cotton, silk, or wool. 257,244; Sept. 18. Class 42.
Marochini, Philip, doing business as Marochini Chemical Company, Chicago, Ill. Hairdressing preparation. 268,987; Sept. 18. Class 6.
Martin Varnish Company, Chicago, Ill. Varnishes. 270,431; Sept. 18. Class 16.
Mayfair Textile Corporation, New York, N. Y. Tablecloths, napkins, etc. 266,942; Sept. 18. Class 20.
McCloskey, George, doing business as G. McC. Company, New Orleans, La. Insecticides. 268,797; Sept. 18. Class 6.
McCree, Wade H., doing business as McCree Products Company, Chicago, Ill. Healing salves. 268,051; Sept. 18. Class 6.
McCullough's, J. M., Sons Co., Cincinnati, Ohio. Lawn-grass seed. 269,534–5; Sept. 18. Class 1.
McGavin's Bread, Inc., Denver, Colo. Bread. 268,697; Sept. 18. Class 46.
Meredith, Duane, Wichita Falls, Tex. Serum for the treatment of tuberculosis. 270,773; Sept. 18. Class 6.
Meyer, H. H., Packing Company, The, Cincinnati, Ohio. Creamery butter. 270,851; Sept. 18. Class 46.
Mid-States Chemical Company, Inc., St. Louis, Mo. Liquid dry cleaner. 270,384; Sept. 18. Class 4.
Mid-West Oil Company, Kansas City, Kans. Lubricating oils. 270,385; Sept. 18. Class 15.
Minneapolis-Honeywell Regulator Company, Wabash, Ind., and Minneapolis, Minn. Limiting device to work in conjunction with a regulator. 267,375; Sept. 18. Class 34.
Missy Hat Co., Inc., New York, N. Y. Hats and tams. 270,775; Sept. 18. Class 39.
Monmonier, Helen F., Catonsville, Baltimore, Md. Biscuit dough. 270,435; Sept. 18. Class 46.
Monnig Dry Goods Company, Fort Worth, Tex. Dresses. 269,536; Sept. 18. Class 39.
Mooresville Cotton Mills, Mooresville, N. C. Turkish towels. 271,004; Sept. 18. Class 42.
Mouratoglou, Mourat, Weirton, W. Va. Ointment for rheumatism. 250,935; Sept. 18. Class 6.
Müllhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Müllhens, Cologne-on-the-Rhine, Germany. Soaps. 261,800; Sept. 18. Class 4.
Müllhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Müllhens, Cologne-on-the-Rhine, Germany. Eau de Cologne water, perfumery, etc. 261,803; Sept. 18. Class 6.
Muller, Paul, Solingen, Germany. Razors and blades therefor. 267,853; Sept. 18. Class 23.
National Used Car Market Report, Inc., Chicago, Ill. Periodical publications issued approximately quarterly. 270,437; Sept. 18. Class 38.
Nebel Knitting Company, Charlotte, N. C. Hosiery. 269,974; Sept. 18. Class 39.
New Bloomfield Hosiery Mills. (See Gring, R. M.)
New England Panama Hat Co., Inc., New York, N. Y. Straw, Panama, and felt hats. 270,602; Sept. 18. Class 39.
New York Zoological Society, New York, N. Y. Periodical publication. 270,713; Sept. 18. Class 38.
No Equal Products Co. (See Harris, John J.)
Nones, A., & Co., New York, N. Y. Nuts. 267,716; Sept. 18. Class 46.
Normandin Bros. Co., Los Angeles, Calif. Dresses. 269,740; Sept. 18. Class 39.
Nuccio, Ignazio, doing business as Traiana Olive Oil Company, Cleveland, Ohio. Olive oil. 269,851; Sept. 18. Class 46.
Nugent, B., & Brother Dry Goods Company, St. Louis, Mo. Publication. 261,377; Sept. 18. Class 38.
Onondaga Silk Co., Inc., Syracuse and New York, N. Y. Silk fabrics in the piece. 269,980–2; Sept. 18. Class 42.
Onondaga Silk Co., Inc., Syracuse and New York, N. Y. Silk fabrics in the piece. 270,302; Sept. 18. Class 42.
Oppenheim, Jesse, New York, N. Y. Hair combs and hair pieces. 259,690; Sept. 18. Class 40.
Pabst Corporation, Milwaukee, Wis. Malt syrup. 269,480; Sept. 18. Class 46.
Pacific Trading Co. Inc., San Francisco, Calif. Canned fish. 267,989; Sept. 18. Class 46.
Palmer, A. N., Company, The, New York, N. Y. Periodical. 270,715–16; Sept. 18. Class 38.
Palmolive-Peet Company, The, Chicago, Ill. Soap. 269,686–7; Sept. 18. Class 4.
Pappas, G. N., doing business as Sterolic Salve Company, Atlanta, Ga. Salve. 270,143; Sept. 18. Class 6.
Paragon Oil Company, Inc., Glendale, N. Y. Gasoline, motor-lubricating oils, etc. 269,200; Sept. 18. Class 15.
Paragon Oil Company, Inc., Glendale, N. Y. Gasoline, motor-lubricating oils, etc. 269,208; Sept. 18. Class 15.
Parke, Davis & Company, Detroit, Mich. Lipoidal extract. 270,044; Sept. 18. Class 6.
Parker-Regan Corporation, San Francisco, Calif. Chemically-impregnated polishing dust cloths. 269,142; Sept. 18. Class 4.
Penick & Ford, Ltd., New York, N. Y. Molasses. 270,500; Sept. 18. Class 46.
Peppers Fruit Company, Los Angeles, Calif. Fresh fruits, fresh vegetables, etc. 267,992; Sept. 18. Class 46.
Perfection Motor Products Company, The. (See Cohen, Joseph H.)
Permanizing Stations of America, Inc., Denver, Colo. Cleaner. 270,941; Sept. 18. Class 4.
Phillips, Charles H., Chemical Company, The, Glenbrook, Conn., and New York, N. Y. Preparation of magnesia. 268,561; Sept. 18. Class 6.
Pneumo-Phthysine Chemical Manufacturing Company, Chicago, Ill. Pharmaceutical products. 269,056; Sept. 18. Class 6.
Primrose Novelty Corporation, New York, N. Y. Devices not made of precious metal for attaching and supporting shoe buckles. 234,677; Sept. 18. Class 40.
Prince, H. G., & Co., Fruitvale, Calif. Canned fruit. 249,292–3; Sept. 18. Class 46.
Python Grip Brake & Equipment Co. (See Duncan, William.)
Quaker Oil Company, Inc., Plainfield, Ind. Motor-lubricating oils, gasoline, and kerosene. 268,748; Sept. 18. Class 15.
Quaker Oil Company, Inc., Plainfield, Ind. Motor-lubricating oil. 269,066; Sept. 18. Class 15.
Quinolive Company. (See Lentino, Antonio.)
Rabalm Company, The. (See Russia Cement Company.)
Rascoff, David, doing business as Hammer Beverages, Brooklyn, N. Y. Beverages and sirups for making the same. 270,679; Sept. 18. Class 45.
Rath Packing Company, The, Waterloo, Iowa. Sausage, bacon, and ham. 262,487; Sept. 18. Class 46.
Red Star News Company, The, New York, N. Y. Weekly magazine. 267,668; Sept. 18. Class 38.
Ree, B. C., Co. (See Bissiri, Adriano A.)
Reliance Manufacturing Company, Chicago, Ill. Blouses, shirts, and play suits. 256,374; Sept. 18. Class 39.
Repcal Brass Mfg. Co., Los Angeles, Calif. Toilet fixtures, valves, etc. 263,513; Sept. 18. Class 13.
Resinous Products and Chemical Company, The, Philadelphia, Pa. Synthetic or chemically-prepared resins. 270,757; Sept. 18. Class 6.
Rialto Orange Co., Rialto, Calif. Fresh citrus fruits. 270,722; Sept. 18. Class 46.
Richmond-Chase Company, San Jose, Calif. Canned fruits, prepared prunes in syrup, etc. 259,080; Sept. 18. Class 46.
Roberts, Milan B., Flint, Mich. Artificial bait. 270,508; Sept. 18. Class 22.
Robinson, Estelle, Arverne, N. Y. Magazine published monthly. 270,262; Sept. 18. Class 38.
Rogoski, John W., Los Angeles, Calif. Humidors. 270,977; Sept. 18. Class 8.
Rosenheim, James H., doing business as Littlejim Co., Bluefield, W. Va. Cleaning preparation. 268,817; Sept. 18. Class 4.
Rothenberg & Schloss Cigar Co., Kansas City, Mo. Cigars. 270,725; Sept. 18. Class 17.
Rothschild Greenfield Co., St. Louis, Mo. Outer shirts. 269,153; Sept. 18. Class 39.
Russel, Robbins, Thermal, Calif. Fresh citrus and deciduous fruits, fresh vegetables, etc. 240,216–17; Sept. 18. Class 46.
Russia Cement Company, doing business as The Rabalm Company, Gloucester, Mass. Healing salves and ointments, etc. 269,260; Sept. 18. Class 6.
Saks & Co., New York, N. Y. Silver tableware, silver flatware, etc. 269,208; Sept. 18. Class 28.
Salgado y Compania, S. A. Union Comercial de Aceites, Madrid, Seville, and Vilches, Spain. Edible oils of all kinds. 261,723; Sept. 18. Class 46.
Schneider Bros. Millinery Co., St. Louis, Mo. Ladies' and misses' hats. 258,100; Sept. 18. Class 39.
Scocos, Dionisia, doing business as The Soterion Co., New York, N. Y. Medicinal preparation. 262,266; Sept. 18. Class 6.
Seaton, Hunley E., doing business as Seaton Products Company, Los Angeles, Calif. Memorandum pads, etc. 269,155; Sept. 18. Class 37.
Selby Shoe Co., The, Portsmouth, Ohio. Boots and shoes. 270,052; Sept. 18. Class 39.
Serv-U-Wel Bakery. (See Madden, William T.)
Serv-U-Wel Markets. (See Madden, William T.)
Seydel-Woolley Company, Atlanta, Ga. Sizing compound. 270,210; Sept. 18. Class 6.
Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electric clocks and parts thereof, etc. 253,960; Sept. 18. Class 27.
Silver Moon Company, Inc., New Orleans, La. Astringents, astringent cerates, bleach creams, etc. 270,613; Sept. 18. Class 6.
Skelly Oil Company, Tulsa, Okla. Gasoline. 270,355; Sept. 18. Class 15.
Soterion Co., The. (See Scocos, Dionisia.)
Southern Farms Company. (See Stauffer, S. Walter.)

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Southworth, Ralph W. E., doing business as The Magic Swan Co., Tuckahoe, N. Y. Liquid dry cleaner. 269,434; Sept. 18. Class 4.

Spangler, Maude H., doing business as Star Spangler Mfg. Co., Birmingham, Ala. Reducing cream. 270,656; Sept. 18. Class 6.

Squibb, E. R., & Sons, New York, N. Y. Vitaminous dietary supplement. 269,372; Sept. 18. Class 6.

Squibb, E. R., & Sons, New York, N. Y. Shaving brushes. 269,993; Sept. 18. Class 29.

Stanco Incorporated, Wilmington, Del., and New York, N. Y. Nose and throat spray. 266,763; Sept. 18. Class 6.

Star Spangler Mfg. Co. (See Spangler, Maude H.)

Starlight & Son, New York, N. Y. Cigars. 270,807; Sept. 18. Class 17.

Stauffer, S. Walter, doing business as Southern Farms Company, Walkerville, Md. Pork products. 266,894; Sept. 18. Class 46.

Sterling Oil Company, Emlenton, Pa. Lubricating oils, illuminating oils, etc. 270,522; Sept. 18. Class 15.

Sterolic Salve Company. (See Pappas, G. N.)

Stickler & Magnuson Aktiebolag, Stockholm, Sweden. Drill chucks, drills, hammers, etc. 269,614; Sept. 18. Class 23.

Stifel, J. L., & Sons, Wheeling, W. Va. Cotton piece goods. 270,944; Sept. 18. Class 42.

Stines, Adolphus H., West Asheville, N. C. Soap. 270,615; Sept. 18. Class 4.

Stockton Malt Co. (See White, H. L.)

Strauss, Levi, & Company, San Francisco, Calif. Overalls. 248,368; Sept. 18. Class 39.

Sun Oil Company, Philadelphia, Pa. Lubricating oil. 270,306; Sept. 18. Class 15.

Sunrise Packing Company, Fresno, Calif. Dried fruits. 260,922; Sept. 18. Class 46.

Swinex Company, Cedar Rapids, Iowa. Hog tonics and appetizers. 261,533; Sept. 18. Class 6.

Sylvania Products Company, Emporium, Pa. Radio electron tubes and electric lamps. 268,710; Sept. 18. Class 21.

Taylor and Drew, Philadelphia, Pa. Bread. 217,427; Sept. 18. Class 46.

Texas Pacific Coal and Oil Company, Fort Worth, Tex. Lubricating oils. 268,188; Sept. 18. Class 15.

Townsend, Ernest J., East Lynn, Mass. Beverages and syrups and concentrates for making the same. 270,681; Sept. 18. Class 45.

Traiana Olive Oil Company. (See Nuccio, Ignazio.)

Union Oil Company of California, Los Angeles, Calif. Lubricating oils, waxes, and greases. 268,718; Sept. 18. Class 15.

Unique Manufacturing Co., Tacony, Philadelphia, Pa. Ink-removing fluid. 268,895; Sept. 18. Class 6.

Universal Foundry Co., Oshkosh, Wis. Gray-iron castings. 269,874; Sept. 18. Class 14.

Universal Pictures Corporation, New York, N. Y. Series of animated motion-picture cartoons. 270,450; Sept. 18. Class 26.

Vaniva Products Company, Inc., New York, N. Y. Shaving creams. 246,317; Sept. 18. Class 4.

Vareck Electric Manufacturing Co., Inc., New York, N. Y. Electrically-heated pads for therapeutic uses. 270,155; Sept. 18. Class 44.

Victor Parting Bead Co., Inc., The, Reading, Pa. Weather strips, screen doors, etc. 265,864; Sept. 18. Class 12.

Visco Chemical Products Company, The, Cleveland, Ohio. Chemical for opening and cleansing drains, etc. 269,617; Sept. 18. Class 6.

Wanamaker, John, New York, New York, N. Y. Newspaper column. 251,251; Sept. 18. Class 38.

Weinberger Drug Company, The, doing business as The Kotar Chemical Company, Cleveland, Ohio. Nerve tonic, blood purifier, etc. 266,231; Sept. 18. Class 6.

Weller Brothers, Shamokin, Pa. Laxative gum. 269,702; Sept. 18. Class 6.

Whitcomb, Walter D., Portland, Oreg. Mechanical graphic charts. 270,658; Sept. 18. Class 26.

White, H. L., doing business as Stockton Malt Co., Stockton, Calif. Malt syrup. 269,165; Sept. 18. Class 46.

Whiting-Adams Company, Boston, Mass. Brushes. 270,404; Sept. 18. Class 29.

Whitney, F. A., Carriage Company, Leominster, Mass. Light vehicles. 269,214; Sept. 18. Class 19.

Wilbert Products Co., Inc., The, New York, N. Y. Dry-cleaning fluid. 268,898; Sept. 18. Class 4.

Wilkins, M. O., Corporation, New York, N. Y. General household cleaning preparation. 267,286; Sept. 18. Class 4.

Wilson-Imperial Company, Newark, N. J. Material for redyeing and renovating plush. 263,296; Sept. 18. Class 6.

Winthrop Chemical Company. (See Chemische Fabrik von Heyden, A. G., assignor.)

Worcester Knitting Co., The, Worcester, Mass. Bathing suits. 269,754; Sept. 18. Class 39.

Worthy Manufacturing Company, Chicago, Ill. Men's and boys' negligee and work shirts. 268,945; Sept. 18. Class 39.

Worthy Manufacturing Company, Chicago, Ill. Shirts. 268,946–8; Sept. 18. Class 39.

Worthy Manufacturing Company, Chicago, Ill. Shirts. 268,950–2; Sept. 18. Class 39.

Yard-Boy Incinerator Co., Chicago, Ill. Incinerator. 271,014; Sept. 18. Class 34.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. Lackey Coal Company. 246,836; Sept. 18; Serial No. 262,855; published June 26, 1928.

Coal. A. S. Nowlin & Company. 246,885; Sept. 18; Serial No. 246,219; published May 24, 1927.

CLASS 2.

Containers for wearing apparel, Foldable cardboard. I. Appelbaum. 246,832; Sept. 18; Serial No. 262,786; published July 3, 1928.

Containers, Shipping. A. C. Scott. 247,172; Sept. 18.

CLASS 3.

Cases and school bags, Brief. Rex Leather Goods Corp. 247,003–4; Sept. 18; Serial Nos. 265,808–9; published July 10, 1928.

Satchels, hand bags, valises, etc. A. Perugia. 247,076; Sept. 18; Serial No. 260,134; published July 3, 1928.

Trunks and hand luggage. Derco Trunk Co. 246,856; Sept. 18; Serial No. 261,950; published July 3, 1928.

CLASS 4.

Abrasive grinding stones. E. P. Mars. 246,918; Sept. 18; Serial No. 265,441; published June 26, 1928.

Aluminum silver-cleaning plates. Aluminum Goods Manufacturing Co. 247,105; Sept. 18; Serial No. 263,849; published June 19, 1928.

Cleaner, Neutral paste. Clean Surface Products Company. 247,085; Sept. 18; Serial No. 255,230; published Dec. 6, 1927.

Cleaning fluid. A. H. Beggs. 247,021; Sept. 18; Serial No. 249,039; published Oct. 25, 1927.

Cleaning fluid. E. G. Turcotte. 247,070; Sept. 18; Serial No. 266,061; published June 26, 1928.

Cleaning liquid. Bonide Chemical Co. 247,136; Sept. 18; Serial No. 266,121; published June 19, 1928.

Cleaning preparation in liquid form. L. Caskin. 247,135; Sept. 18; Serial No. 266,125; published June 19, 1928.

Cleaning preparation of soap and other ingredients. Midland Chemical Laboratories, Inc. 247,100; Sept. 18; Serial No. 259,011; published Feb. 14, 1928.

Cleansing preparation, Household. W. E. Bauer. 247,082–3; Sept. 18; Serial Nos. 259,706–7; published July 3, 1928.

Dressing, Automobile top and fabric. Standard Drug Company. 247,138; Sept. 18; Serial No. 266,108; published June 26, 1928.

Dressing, Belt. Webb Belting Co. 246,926; Sept. 18; Serial No. 265,708; published July 3, 1928.

Dry cleaner and a polish and cleaner. Old Master Laboratories, Inc. 246,954; Sept. 18; Serial No. 257,890; published Jan. 17, 1928.

Polishing and cleaning preparations for glass. Reckitt & Sons, Limited. 246,952; Sept 18; Serial No. 266,440; published July 3, 1928.

Polishing cloths impregnated with mild abrasives. J. C. Kough, Jr. 246,833; Sept. 18; Serial No. 262,809; published June 19, 1928.

Preparation for cleaning hands. J. L. McFall. 247,013; Sept. 18; Serial No. 264,897; published June 26, 1928.

Shaving cream and soap shampoo. Mentholatum Company. 246,955; Sept. 18; Serial No. 257,808; published July 3, 1928.

Soap. Mart Guild Incorporated. 246,999; Sept. 18; Serial No. 265,850; published June 19, 1928.

Soap flakes. Procter & Gamble Company. 246,898; Sept. 18; Serial No. 265,561; published June 19, 1928.

Soap, Shaving. McKesson & Robbins, Incorporated. 247,134; Sept. 18; Serial No. 266,140; published June 19, 1928.

Soap, Toilet. C. A. Crary. 247,026; Sept. 18; Serial No. 264,362; published June 26, 1928.

Soaps and shaving soaps, Toilet. Societe Anonyme Donge. 246,939; Sept. 18; Serial No. 266,280; published June 19, 1928.

Soaps including shaving sticks. Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. 246,893; Sept. 18; Serial No. 242,102; published July 3, 1928.

Soaps including toilet soaps and shaving sticks. Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. 246,894; Sept. 18; Serial No. 242,048; published July 3, 1928.

Washing and cleansing fluid. B. R. M. Company. 246,982; Sept. 18; Serial No. 228,731; published June 19, 1928.

Washing solution with bleaching properties. T. M. Messier. 246,961; Sept. 18; Serial No. 264,379; published June 26, 1928.

CLASS 6.

Chemical composition for stopping runs in hosiery. J. D. Lippy, jr. 246,917; Sept. 18; Serial No. 265,436; published June 26, 1928.

Chemical compound. J. A. Well. 246,974; Sept. 18; Serial No. 257,647; published June 19, 1928.

Cream, skin lotion, etc., Cold and face. John Heiland Co. 247,162; Sept. 18.

Disinfectants. F. B. Nobrega. 246,942; Sept. 18; Serial No. 266,327; published June 26, 1928.

Liquid preparation. Clinical Laboratories Company. 246,892; Sept. 18; Serial No. 242,281; published May 8, 1928.

Medicinal preparations. Bradigan Tablet Concern. 246,980; Sept. 18; Serial No. 235,360; published July 3, 1928.

Oils, photographic chemicals, etc., Natural or synthetic. Rhodia Chemical Company. 246,888–9; Sept. 18; Serial Nos. 243,885–6; published Mar. 13, 1928.

Ointments. L. P. Philippi. 246,886; Sept. 18; Serial No. 244,179; published July 12, 1927.

Oxides, Combination of, Metallic. E. M. & F. Waldo, Inc. 246,987; Sept. 18; Serial No. 265,999; published June 19, 1928.

Perfume. J. L. Lombardo. 246,862; Sept. 18; Serial No. 257,172; published Dec. 13, 1927.

Pills, Laxative. Nature's Products Company. 247,048; Sept. 18; Serial No. 264,733; published May 29, 1928.

Salve ointment. I. Masarsky. 246,873; Set. 18; Serial No. 264,113; published June 12, 1928.

Tonic, General. H. & J. Laboratories. 247,166; Sept. 18.

CLASS 7.

Twine, White fibre. Hanover Cordage Company. 247,147; Sept. 18; Serial No. 266,807; published July 3, 1928.

CLASS 8.

Pipes, cigar and cigarette holders, etc., Tobacco. Tiffany & Company. 247,061; Sept. 18; Serial No. 267,156; published July 10, 1928.

Trays and cigar and cigarette extinguishers, Ash. R. C. Thomas. 246,963; Sept. 18; Serial No. 254,366; published July 10, 1928.

Trays or receivers, cigar and cigarette tubes, etc., Ash. H. A. Kline. 246,864; Sept. 18; Serial No. 264,309; published July 10, 1928.

CLASS 10.

Fertilizing material. E. Reinau. 247,139; Sept. 18; Serial No. 266,099; published July 3, 1928.

CLASS 12.

Asphalt compounds. Union Products Company. 246,875; Sept. 18; Serial No. 263,985; published June 26, 1928.

Asphalt emulsion. Emulsion Process Corporation. 246,874; Sept. 18; Serial No. 264,027; published June 26, 1928.

Binder, Road. Trinidad Lake Petroleum Company. 247,093; Sept. 18; Serial No. 259,263; published June 19, 1928.

Bituminous composition. Amber Size & Chemical Co. 246,848; Sept. 18; Serial No. 261,600; published June 19, 1928.

Blocks for furnaces, Refractory. Corhart Refractories Company. 246,879; Sept. 18; Serial No. 263,926; published June 19, 1928.

Brick and building tile. Acme Brick Company. 247,024; Sept. 18; Serial No. 265,248; published June 26, 1928.

Bricks and blocks, Refractory, etc. McLeod & Henry Co. 246,869; Sept. 18; Serial No. 264,246; published June 12, 1928.

Building materials, Composition. Continental Building Specialties. 246,880; Sept. 18; Serial No. 263,925; published June 19, 1928.

Doors and partitions, Folding. P. Horn. 247,121; Sept. 18; Serial No. 263,320; published June 12, 1928.

Doors, windows, sashes, and trims. General Woodcraft Co. 246,870; Sept. 18; Serial No. 264,227; published June 5, 1928.

Doors, Wood. Cadillac Flushlite Door Company. 247,113; Sept. 18; Serial No. 263,534; published June 5, 1928.

Lumber, dimension core stock, trim for windows and doors, and moldings. Cortrim Lumber Company. 246,867; Sept. 18; Serial No. 264,290; published June 26, 1928.

Roofing in rolls, Composition. Chatfield Manufacturing Corporation. 246,882; Sept. 18; Serial No. 263,858; published June 5, 1928.

Tile building blocks, Hollow. Universal Tile Corporation of America. 247,032; Sept. 18; Serial No. 264,928; published June 19, 1928.

Tiles and foundation sheets prepared for the cementing of tiles thereto. Porcelain Tile Company. 246,871; Sept. 18; Serial No. 264,196; published June 5, 1928.

Tiles of sheet metal. C. F. Burgess Laboratories, Inc. 247,114; Sept. 18; Serial No. 263,533; published June 12, 1928.

CLASS 13.

Metal bowls, candy dishes, flower holders, etc., Base-. I. Shainin & Co. 246,847; Sept. 18; Serial No. 261,462; published July 3, 1928.

Metal shanks for shoes. F. G. Delbon. 246,831; Sept. 18; Serial No. 262,704; published July 3, 1928.

Thermosiphon discharge fittings for fluid-holding tanks. Sands Manufacturing Company. 247,118; Sept. 18; Serial No. 263,429; published July 3, 1928.

Valves, Pressure control and relief. J. A. Campbell. 246,937; Sept. 18; Serial No. 265,193; published July 3, 1928.

Wire, wire gauze, barbed wire, etc., Fence. Vereinigte Stahlwerke Aktiengesellschaft. 246,845; Sept. 18; Serial No. 261,293; published July 3, 1928.

CLASS 14.

Alloy, Metal. Stoody Company. 247,133; Sept. 18; Serial No. 266,153; published July 3, 1928.

Markers, Traffic. Kilborn & Bishop Co. 247,046; Sept. 18; Serial No. 264,688; published July 3, 1928.

Steel. Vulcan Crucible Steel Co. 247,008; Sept. 18; Serial No. 264,785; published July 3, 1928.

Steel, steel bars, etc., Tool. Darwin & Milner, Inc. 247,163; Sept. 18.

CLASS 15.

Oils, Lubricating. Sinclair Refining Company. 247,014; Sept. 18; Serial No. 266,223; published July 3, 1928.

Oils, Lubricating. Zin Abrasive Company. 246,991; Sept. 18; Serial No. 265,938; published July 3, 1928.

CLASS 16.

Paint, Ready-mixed. L. Follman. 247,025; Sept. 18; Serial No. 264,370; published July 3, 1928.

Paints and painter's materials. Old Gold Combination White Lead and Color Corporation. 247,120; Sept. 18; Serial No. 263,336; published July 3, 1928.

Paints, varnishes, floor dressings, and fillers. J. C. Shepard. 246,928; Sept. 18; Serial No. 265,699; published July 3, 1928.

CLASS 17.

Cigarettes. Batt Brothers. 246,966; Sept. 18; Serial No. 255,047; published July 3, 1928.

Cigars. J. H. Craney. 247,036; Sept. 18; Serial No. 266,302; published July 10, 1928.

Cigars. Grumbine-O'Donnell Corp. 247,164; Sept. 18.

Cigars. Minerva Cigar Corporation, Inc. 247,059; Sept. 18; Serial No. 267,201; published July 10, 1928.

Cigars. Philippine Tobacco Co. 247,058; Sept. 18; Serial No. 267,206; published July 10, 1928.

Cigars. C. Richter. 247,145; Sept. 18; Serial No. 266,884; published July 10, 1928.

Cigars, cigarettes, and cut tobacco. Cifuentes, Pego y Compañia. 246,838; Sept. 18; Serial No. 262,897; published July 10, 1928.

Tobacco, Smoking and chewing. Brown & Williamson Tobacco Corporation. 247,045; Sept. 18; Serial No. 264,669; published July 3, 1928.

CLASS 21.

Batteries. R. G. Lafite. 247,050; Sept. 18; Serial No. 264,760; published July 3, 1928.

Batteries and battery plates. Arco Battery & Plate Co. 246,896; Sept. 18; Serial No. 265,608; published July 3, 1928.

Electric lamps, and lanterns, searchlights, and signs. Perkins Marine Lamp Corporation. 246,863; Sept. 18; Serial No. 264,325; published July 3, 1928.

Electric motors. Triumph Electric Corporation. 246,927; Sept. 18; Serial No. 265,707; published July 3, 1928.

Electric sadirons, percolators, toasters, etc. Malda Electric Manufacturing Company. 246,972–3; Sept. 18; Serial Nos. 256,951–2; published July 3, 1928.

Electric toasters. Beardsley & Wolcott Mfg. Co. 246,990; Sept. 18; Serial No. 265,940; published July 3, 1928.

Flash lights. Blake Manufacturing Co. 246,830; Sept. 18; Serial No. 262,646; published July 3, 1928.

Radio vacuum tubes. Gold Seal Electrical Company. 247,023; Sept. 18; Serial No. 260,997; published June 19, 1928.

Sadirons, percolators, and toasters, etc., Electric. Malda Electric Manufacturing Company. 247,101–2; Sept. 18; Serial Nos. 256,953–4; published July 3, 1928.

CLASS 22.

Artificial bait. Enterprise Manufacturing Company. 246,912; Sept. 18; Serial No. 265,329; published July 3, 1928.

Fish lures. C. W. Wynn. 246,883; Sept. 18; Serial No. 246,800; published July 3, 1928.

Game, Modified checker. T. E. Cahill. 247,077; Sept. 18; Serial No. 259,994; published July 3, 1928.

Toy vehicles. C. C. Alles. 247,010; Sept. 18; Serial No. 264,859; published July 3, 1928.

Velocipedes. Colson Company. 246,872; Sept. 18; Serial No. 264,144; published July 3, 1928.

CLASS 23.

Benters. White and Hallock, Inc. 246,922; Sept. 18; Serial No. 257,209; published July 3, 1928.
Blowers, crushers, and cupel machines, Air. Denver Fire Clay Company. 246,822; Sept. 18; Serial No. 262,157; published July 10, 1928.
Blowers, crushers, and cupel machines, Air. Denver Fire Clay Company. 246,823; Sept. 18; Serial No. 262,159; published July 10, 1928.
Cutters, Grass and weed. Village Blacksmith Folks. 247,098; Sept. 18; Serial No. 258,052; published July 3, 1928.
Drills, pneumatic brushing machines, etc., Pneumatic rock hammer. Compagnie Belge Goliath. 247,109; Sept. 18; Serial No. 263,643; published July 3, 1928.
Fire-extinguishing apparatus. Portable hand. General Carbonic Company. 247,056; Sept. 18; Serial No. 251,438; published Oct. 25, 1927.
Gears, Distributor and oil-pump. J. A. Fischer Company. 246,857; Sept. 18; Serial No. 261,953; published July 3, 1928.
Grading machines and parts thereof. Little Red Wagon Mfg. Co. 246,861; Sept. 18; Serial No. 262,098; published July 10, 1928.
Knives and forks, pocketknives, tongs, etc., Table. H. Herkenrath. 246,835; Sept. 18; Serial No. 262,847; published July 10, 1928.
Machine needles, Hosiery. Louis Hirsch, Inc. 247,090; Sept. 18; Serial No. 259,113; published July 3, 1928.
Machines, Textile. O. F. von Kohorn zu Kornegg. 247,074; Sept. 18; Serial No. 260,543; published July 10, 1928.
Machinery, Flour-handling, dough-handling, etc. Baker Perkins Company. 247,103; Sept. 18; Serial No. 257,089; published July 10, 1928.
Mechanical devices for rewinding ribbons. Tybon Corporation. 247,043; Sept. 18; Serial No. 264,545; published July 10, 1928.
Mills, for grinding or pulverizing. Conquest Mill Engineering Company. 247,111–12; Sept. 18; Serial Nos. 263,539–40; published July 3, 1928.
Oil-well specialties. H. L. Lowe. 246,890; Sept. 18; Serial No. 243,225; published July 10, 1928.
Pipe pushers, windmills, and repair and replacement parts, etc. C. D. Ammon. 246,949; Sept. 18; Serial No. 266,413; published July 10, 1928.
Rakes and hoes, Hand. A. F. Dinwiddie. 247,127; Sept. 18; Serial No. 266,203; published July 3, 1928.
Razor blades. Ruble Blade Corporation. 246,846; Sept. 18; Serial No. 261,458; published July 3, 1928.
Razor blades. I. J. Shapiro. 246,988; Sept. 18; Serial No. 265,988; published July 3, 1928.
Razor blades, Safety. L. Whitcup. 247,060; Sept. 18; Serial No. 267,171; published July 10, 1928.
Scissors, shears, and razors. J. A. Henckels, Inc. 247,153; Sept. 18; Serial No. 266,731; published July 10, 1928.
Scrapers. G. Garst. 246,852; Sept. 18; Serial No. 261,751; published July 3, 1928.
Shears, Metal. National Machine Tool Company. 246,929; Sept. 18; Serial No. 265,676; published July 10, 1928.
Tools, pipe wrenches, pipe tongs, etc., Pipe cutting-off and threading. Armstrong Bros. Tool Co. 247,009; Sept. 18; Serial No. 264,860; published July 10, 1928.
Wrenches and socket-wrench sets. Bonney Forge & Tool Works. 246,827; Sept. 18; Serial No. 262,547; published July 10, 1928.

CLASS 24.

Ironing tables. Federal Washboard Company. 246,901; Sept. 18; Serial No. 265,528; published July 3, 1928.

CLASS 26.

Brake-testing machines. Taylor Manufacturing Corporation. 246,859; Sept. 18; Serial No. 262,043; published July 10, 1928.
Films, etc., Motion-picture. First National Pictures, Inc. 247,144; Sept. 18; Serial No. 266,921; published July 10, 1928.
Gauges, Tire. Handy Tire Gauge Manufacturing Company. 246,937; Sept. 18; Serial No. 265,046; published July 3, 1928.
Indicator, Ship's shaft-revolution. G. Walker. 247,142; Sept. 18; Serial No. 262,274; published July 3, 1928.
Lenses, Optical. Titmus Optical Company. 247,106; Sept. 18; Serial No. 263,840; published July 10, 1928.
Pictures reproduced in copies for sale, Motion. W. E. Disney. 247,156; Sept. 18; Serial No. 266,717; published July 3, 1928.
Registering device for golf, Score-. Golf Score Watch Company. 246,865; Sept. 18; Serial No. 264,296; published July 10, 1928.
Sieves of metal and wire cloth, graphite crucibles (melting type), assay clay goods, etc. Denver Fire Clay Company. 247,149; Sept. 18; Serial No. 266,854; published July 3, 1928.
Sieves of metal, graphite crucibles, etc. Denver Fire Clay Company. 246,824; Sept. 18; Serial No. 262,160; published July 10, 1928.

CLASS 27.

Watches, watch movements, and parts of the same. Hipp. Didisheim Co. 247,174; Sept. 18.
Watches, watch movements, watchcases, and parts of watches. Federal Mail Order Corporation. 247,042; Sept. 18; Serial No. 264,974; published July 3, 1928.

CLASS 28.

Badges, lapel buttons, cuff links, etc., Fraternity. Kappa Phi Kappa. 246,844; Sept. 18; Serial No. 261,260; published July 3, 1928.
Rings, belt buckles, etc., Finger and napkin. S. Buchsbaum & Co. 246,853; Sept. 18; Serial No. 261,857; published July 3, 1928.

CLASS 29.

Mops and mop heads. W. A. Ballinger. 246,986; Sept. 18; Serial No. 266,013; published July 3, 1928.
Paintbrushes. Pohlmeyer, Inc. 247,078; Sept. 18; Serial No. 259,871; published July 3, 1928.

CLASS 31.

Refrigerating machines, Domestic. Williams Oil-O-Matic Heating Corporation. 246,834; Sept. 18; Serial No. 262,834; published July 3, 1928.
Refrigerators, Electric. Hanford Produce Company. 246,841; Sept. 18; Serial No. 263,040; published July 10, 1928.

CLASS 32.

Cabinet for greeting cards, Display. W. A. Swanson. 247,161; Sept. 18; Serial No. 266,630; published July 3, 1928.
Cabinets and cupboards, kitchenette units, etc., Steel. Pro-steel Company. 246,996; Sept. 18; Serial No. 265,028; published July 3, 1928.
Desks, chairs, and book ends. Majestic Co. 247,031; Sept. 18; Serial No. 264,526; published July 10, 1928.
Furniture attached to buildings. Clearwater Lumber Company. 247,169; Sept. 18.
Pillows. Chas. Emmerich and Co. 247,065; Sept. 18; Serial No. 266,983; published July 10, 1928.
Radiocabinets, loud-speaker cabinets, etc. Splitdorf Radio Corporation. 246,994; Sept. 18; Serial No. 265,934; published July 10, 1928.

CLASS 33.

Glass vigil-light cups. Wright Manufacturing Company. 247,137; Sept. 18; Serial No. 266,113; published July 3, 1928.

CLASS 34.

Burners, Oil. Grant Oil Burner Corporation. 246,981; Sept. 18; Serial No. 230,623; published July 3, 1928.
Coal-handling equipment. Combustioneer, Inc. 246,855; Sept. 18; Serial No. 261,943; published July 3, 1928.
Melting pots, Cast-metal. American Car and Foundry Company. 246,967; Sept. 18; Serial No. 255,427; published Nov. 29, 1927.
Reflectors, core lighting reflectors, etc., Lamp. Pittsburgh Reflector Company. 247,030; Sept. 18; Serial No. 264,532; published July 3, 1928.

CLASS 35.

Belt, Solid round. Webb Belting Co. 246,992; Sept. 18; Serial No. 265,937; published July 3, 1928.
Belting. Ferguson Gear Company. 246,860; Sept. 18; Serial No. 262,073; published July 3, 1928.
Blocks, edger pin stock, etc., Friction. Friction Products Company. 246,916; Sept. 18; Serial No. 265,430; published July 3, 1928.
Tires, tubes, and patches, Vehicle. General Tire & Rubber Company, The. 246,976; Sept. 18; Serial No. 239,408; published July 3, 1928.

CLASS 36.

Reeds for the saxophone and clarinet. Buegeleisen & Jacobson. 246,907; Sept. 18; Serial No. 257,964; published June 26, 1928.

CLASS 37.

Books and tablets, School writing. Paper Supply Company. 247,020; Sept. 18; Serial No. 250,758; published July 3, 1928.
Cards and forms for indexes, etc. Rand Kardex Service Corporation. 247,084; Sept. 18; Serial No. 255,821; published July 3, 1928.
Envelopes. Curtis 1000, Inc. 247,047; Sept. 18; Serial No. 264,717; published June 26, 1928.
Envelopes, letterheads, billheads, etc. Gaw O'Hara Envelope Company. 246,866; Sept. 18; Serial No. 264,295; published June 26, 1928.
Linen, Technical. W. J. Peters & Cie. 247,122; Sept. 18; Serial No. 263,279; published June 19, 1928.
Paper and waxed paper, Waxed wrapping. Warren Manufacturing Company. 247,157; Sept. 18; Serial No. 266,696; published July 3, 1928.
Paper, Bond. Carter-Rice & Carpenter Paper Co. 246,930; Sept. 18; Serial No. 265,618; published June 19, 1928.
Paper, Bond. Carter-Rice & Carpenter Paper Co. 246,932; Sept. 18; Serial No. 265,617; published June 19, 1928.
Paper, bristol and card board, Cover. Beveridge Paper Company. 246,944; Sept. 18; Serial No. 266,349; published July 3, 1928.
Paper diapers. Monette Company. 246,881; Sept. 18; Serial No. 263,881; published June 19, 1928.

Paper, Italian handmade and handlaid writing and printing. Japan Paper Company. 247,148; Sept. 18; Serial No. 266,860; published July 3, 1928.
Paper, Metallic-coated. Tuttle Press Company. 247,108; Sept. 18; Serial No. 263,736; published June 19, 1928.
Paper, paper towels, and paper napkins, Toilet. Hoberg Paper and Fibre Company. 246,877; Sept. 18; Serial No. 263,946; published June 19, 1928.
Paper, Print, wrapping, writing, book, and tissue. Cornstalk Products Company. 246,902; Sept. 18; Serial No. 265,525; published July 3, 1928.
Paper, Writing and cover. Byron Weston Company. 247,012; Sept. 18; Serial No. 264,869; published June 19, 1928.
Paper, Writing and other. Tileston & Hollingsworth Company. 247,034; Sept. 18; Serial No. 264,543; published June 26, 1928.
Pencils and pencil cases. Bailey's Agencies Limited. 247,037; Sept. 18; Serial No. 264,943; published June 26, 1928.
Pencils, Lead. Eagle Pencil Company. 246,878; Sept. 18; Serial No. 263,937; published June 19, 1928.
Pens, Fountain. L. E. Waterman Company. 247,087; Sept. 18; Serial No. 257,834; published June 26, 1928.
Tablets, notebooks, etc., Pencil and ink. Blackwell Wielandy Company. 246,945; Sept. 18; Serial No. 266,350; published June 19, 1928.

CLASS 38.

Advertising inserts for magazines, Colored. Walter C. McMillan Inc. 247,006; Sept. 18; Serial No. 265,229; published June 26, 1928.
Book line, etc., Juvenile and general. Buzza Company. 247,055; Sept. 18; Serial No. 251,484; published June 19, 1928.
Booklets. Association of Gray Line Owners. 247,027; Sept. 18; Serial No. 264,503; published June 19, 1928.
Cartoons, Series of. Lowry Cartoon Corporation. 246,919; Sept. 18; Serial No. 265,485; published July 3, 1928.
Charts and pamphlets, Color. American Writing Paper Company. 246,998; Sept. 18; Serial No. 265,877; published July 3, 1928.
Correspondence course teaching motion-picture-play writing. Hollywood Academy Teaching Motion Picture Play Writing. 247,167; Sept. 18.
House organ. Toledo Scale Company. 247,069; Sept. 18; Serial No. 266,058; published July 3, 1928.
Journals, Trade. Servel, Inc. 246,837; Sept. 18; Serial No. 262,874; published June 26, 1928.
Lessons, Correspondence-school. Practical Drafting Institute of America. 246,904; Sept. 18; Serial No. 265,498; published June 26, 1928.
Letters, Typewritten and printed. New Era Letter Co. Inc. 246,899; Sept. 18; Serial No. 265,557; published June 26, 1928.
Lists of household commodities, Printed. Be Vier and Co. 247,081; Sept. 18; Serial No. 259,709; published July 3, 1928.
Magazine. P. W. Brown. 247,090; Sept. 18; Serial No. 253,677; published Oct. 25, 1927.
Magazine. Doubleday, Doran & Company. 247,068; Sept. 18; Serial No. 266,919; published July 3, 1928.
Magazine. Time, Incorporated. 246,868; Sept. 18; Serial No. 264,266; published June 19, 1928.
Magazine, Monthly. John Paul Dorland, Inc. 247,130; Sept. 18; Serial No. 266,193; published July 3, 1928.
Magazine, Monthly. Fight Stories, Inc. 246,900; Sept. 18; Serial No. 265,531; published July 3, 1928.
Magazine, Monthly. Meyers Company. 247,072; Sept. 18; Serial No. 266,645; published June 26, 1928.
Magazine, Monthly. Edward Thompson Company. 247,129; Sept. 18; Serial No. 266,194; published July 3, 1928.
Magazine, Weekly. Jacobsen Publishing Company. 247,005; Sept. 18; Serial No. 266,543; published July 3, 1928.
Newspaper columns. G. W. Brown. 247,015; Sept. 18; Serial No. 266,238; published July 3, 1928.
Newspaper section. New York Times Company. 247,125; Sept. 18; Serial No. 266,214; published July 3, 1928.
Newspaper, Weekly. A. C. Meyer. 246,829; Sept. 18; Serial No. 262,573; published July 3, 1928.
Pamphlets, data sheets, and printed blanks, Periodical. Lefax. 246,884; Sept. 18; Serial No. 246,418; published July 3, 1928.
Periodical. F. W. Dodge Corporation. 246,959–60; Sept. 18; Serial Nos. 265,095–6; published June 26, 1928.
Publication. American Association of University Instructors in Accounting. 246,924; Sept. 18; Serial No. 265,767; published June 26, 1928.
Publication. R. T. Hardy. 246,989; Sept. 18; Serial No. 265,962; published June 19, 1928.
Publication. Pierce-Arrow Motor Car Company. 247,140; Sept. 18; Serial No. 266,092; published June 19, 1928.
Publication, Monthly. American Laundry Machinery Company. 246,923; Sept. 18; Serial No. 265,769; published July 3, 1928.
Publication, Monthly. National Industrial Conference Board, Inc. 247,016; Sept. 18; Serial No. 266,260; published July 3, 1928.
Publication, Periodical. Chain Store Publishing Corporation. 246,953; Sept. 18; Serial No. 266,516; published July 3, 1928.
Publication, Printed. E. J. Ryan. 246,849; Sept. 18; Serial No. 261,652; published July 3, 1928.
Publication, Semimonthly. National Industrial Conference Board, Inc. 247,017; Sept. 18; Serial No. 266,261; published July 3, 1928.
Radio call finder. V. T. Brauns. 247,107; Sept. 18; Serial No. 263,747; published July 3, 1928.
Stamps, Trading. R. E. Gregg. 247,088; Sept. 18; Serial No. 257,869; published June 19, 1928.

CLASS 39.

Dresses. Style-Rite Dress Company. 246,984; Sept. 18; Serial No. 256,749; published Apr. 10, 1928.
Dresses and aprons of all kinds. Ely & Walker Dry Goods Co. 247,041; Sept. 18; Serial No. 264,973; published June 19, 1928.
Dresses and coats. Best-Ever Costume Co. Inc. 247,040; Sept. 18; Serial No. 264,958; published June 19, 1928.
Garters, Ladies'. J. C. Penney Company. 247,028; Sept. 18; Serial No. 264,905; published June 12, 1928.
Hats, Ladies'. Catalina Hats, Inc. 246,956; Sept. 18; Serial No. 265,034; published June 19, 1928.
Hats, Ladies' and misses'. H. Miller. 247,097; Sept. 18; Serial No. 258,090; published June 12, 1928.
Heels, soles, and taps, Rubber. Monarch Rubber Heels Co. 246,915; Sept. 18; Serial No. 265,394; published June 12, 1928.
Hosiery. Sheertex Hosiery Company. 246,935–6; Sept. 18; Serial Nos. 265,170–1; published June 12, 1928.
Shawls and scarfs. Edgar C. Hyman Co. 246,934; Sept. 18; Serial No. 265,108; published June 12, 1928.
Shirts. Wide Awake Shirt Company. 247,165; Sept. 18.
Shoes and slippers, Women's and girls'. I. Miller and Sons, Incorporated. 247,173; Sept. 18.
Shoes, Leather. Pikes Hikes, Inc. 246,965; Sept. 18; Serial No. 255,027; published May 15, 1928.
Suits, topcoats, and overcoats, Men's and boys'. J. W. Smith & Sons. 247,086; Sept. 18; Serial No. 265,021; published June 19, 1928.
Topcoats and overcoats. Hickey-Freeman Co. 246,858; Sept. 18; Serial No. 262,028; published June 19, 1928.
Trousers. Day's Tailor-D Wear, Inc. 246,938; Sept. 18; Serial No. 265,198; published June 12, 1928.

CLASS 41.

Canes, umbrellas, and parasols. Liberty Umbrella Company. 247,044; Sept. 18; Serial No. 264,590; published June 5, 1928.
Umbrellas. J. C. Penney Company. 247,033; Sept. 18; Serial No. 264,909; published June 12, 1928.

CLASS 42.

Blankets and bed and crib coverings. Pepperell Manufacturing Company. 247,141; Sept. 18; Serial No. 266,091; published July 3, 1928.
Blankets and crib sheets of textile material, Crib. Pepperell Manufacturing Company. 247,095; Sept. 18; Serial No. 258,235; published July 3, 1928.
Blankets, Woolen. Pendleton Woolen Mills. 246,911; Sept. 18; Serial No. 265,292; published July 3, 1928.
Burlap and burlap coverings. R. C. Hyland. 247,132; Sept. 18; Serial No. 266,171; published July 10, 1928.
Cloth, Window-shade. Columbia Mills. 247,171; Sept. 18.
Cotton duck in the piece. William L. Barrell Co. of New York, Inc. 246,969; Sept. 18; Serial No. 256,438; published Jan. 31, 1928.
Cotton piece goods and shade cloth. Albert D. Smith & Co. 246,995; Sept. 18; Serial No. 265,932; published July 10, 1928.
Covers made of textile, Infants' carriage. Paradise Koverite Co. 247,022; Sept. 18; Serial No. 247,867; published July 3, 1928.
Fabrics in the piece, Pile. A. T. Baker & Co. Inc. 246,979; Sept. 18; Serial No. 235,540; published July 3, 1928.
Pile fabrics. Sidney Blumenthal & Co. Inc. 247,064; Sept. 18; Serial No. 266,970; published July 10, 1928.
Rayon and silk piece goods. Susquehanna Silk Mills. 246,897; Sept. 18; Serial No. 265,587; published June 26, 1928.
Rayon fabrics. Wilson Rayon Products Corporation. 247,062; Sept. 18; Serial No. 267,023; published July 10, 1928.
Ribbon in the piece or bolt, tablecloths, scarfs for tables, etc., Shoulder-strap. J. C. Penney Company. 246,854; Sept. 18; Serial No. 261,926; published July 3, 1928.
Silk fabrics in the piece. Onondaga Silk Company. 247,146; Sept. 18; Serial No. 266,877; published July 3, 1928.
Silk, silk and rayon, and silk and wool mixture piece goods. H. R. Mallinson & Co. Inc. 247,067; Sept. 18; Serial No. 266,941; published July 10, 1928.
Textiles of linen. A. S. Herrmann, Inc. 247,075; Sept. 18; Serial No. 260,384; published July 10, 1928.
Towels, toweling, and wash cloths. National Bellas Hess Co. Inc. 246,951; Sept. 18; Serial No. 266,437; published July 10, 1928.
Wiping-cloth material, Untreated. Frank C. Kip, Inc. 247,119; Sept. 18; Serial No. 263,409; published July 3, 1928.

CLASS 43.

Thread. J. Seligsohn. 247,168; Sept. 18.
Yarns. Bernhard Ulmann Co. Inc. 247,057; Sept. 18; Serial No. 267,294; published July 10, 1928.

Yarns and threads. Rayon. Nyrayco Importing & Converting Corp. 246,910; Sept. 18; Serial No. 265,286; published July 3, 1928.

CLASS 44.

Instrument for massaging the gums. Pyro-Chex Company. 247,124; Sept. 18; Serial No. 266,216; published July 3, 1928.
Sanitary Napkins. Sitroux Importing Co. 246,887; Sept. 18; Serial No. 244,113; published Sept. 13, 1927.

CLASS 45.

Beverages and sirups for making the same. Fort Dodge Bottling Works. 246,941; Sept. 18; Serial No. 266,315; published July 10, 1928.
Beverages, sirups, mineral waters, etc. L. H. Kirkpatrick. 247,001; Sept. 18; Serial No. 265,845; published July 10, 1928.
Cordials and beverages. Davis & Company. 246,921; Sept. 18; Serial No. 257,349; published July 10, 1928.
Extracts and sirups for making beverages, Concentrated. F. B. Chamberlain Company. 246,983; Sept. 18; Serial No. 214,586; published Jan. 17, 1928.
Water and fruit juices for beverage purposes, Table. W. J. Howey Co. 246,851; Sept. 18; Serial No. 261,674; published July 3, 1928.
Water, lemon phosphate, etc., Soda. The Mirror. 247,018; Sept. 18; Serial No. 263,168; published July 10, 1928.
Water, lemon phosphate, etc., Soda. The Mirror. 247,123; Sept. 18; Serial No. 263,170; published July 10, 1928.
Water, Mineral. H. A. Rowe. 246,903; Sept. 18; Serial No. 265,500; published July 3, 1928.

CLASS 46.

Apples. Elgin Heights Community. 246,940; Sept. 18; Serial No. 266,305; published July 10, 1928.
Apples, Evaporated. Standard Apple Products Inc. 246,993; Sept. 18; Serial No. 265,935; published July 3, 1928.
Apples, Fresh. Frei Bros. 246,908; Sept. 18; Serial No. 264,976; published July 3, 1928.
Bread. J. A. Brown. 247,152; Sept. 18; Serial No. 266,788; published July 3, 1928.
Buns, Honey. B. Lowenstein. 246,914; Sept. 18; Serial No. 265,338; published July 10, 1928.
Cakes. Tolley Cake Corporation. 246,925; Sept. 18; Serial No. 265,740; published July 3, 1928.
Cakes, roll, pie, etc. Happiness Bakeries, Inc. 247,080; Sept. 18; Serial No. 259,763; published Apr. 3, 1928.
Candies. Mason, Au & Magenheimer Confectionery Manufacturing Company. 246,968; Sept. 18; Serial No. 256,000; published July 3, 1928.
Candies. Rubay Candy Company. 246,839; Sept. 18; Serial No. 262,936; published July 10, 1928.
Candies, cakes, and mayonnaise dressing. Nevitt and Goodwin. 247,089; Sept. 18; Serial No. 257,612; published July 3, 1928.
Candy. Bradley, Smith Company. 246,850; Sept. 18; Serial No. 261,665; published July 10, 1928.
Candy. George Close Co. 247,143; Sept. 18; Serial No. 266,924; published July 10, 1928.
Candy. Elgin Chocolate Products Co. Inc. 247,159; Sept. 18; Serial No. 266,651; published July 10, 1928.
Candy. James J. Matchett Co. 246,895; Sept. 18; Serial No. 265,487; published July 3, 1928.
Candy, candied popcorn, etc. Patsy's Candies, Inc. 247,115; Sept. 18; Serial No. 263,512; published July 3, 1928.
Canned berries, fruits, and vegetables. Salter Canning Company. 246,913; Sept. 18; Serial No. 265,298; published July 10, 1928.
Canned clam chowder. J. F. Setth. 246,985; Sept. 18; Serial No. 266,051; published July 10, 1928.
Canned cranberry sauce. Hillis Brothers Company. 247,073; Sept. 18; Serial No. 260,500; published July 10, 1928.
Canned deciduous fruits, canned vegetables. John Rothschild & Co. Inc. 247,054; Sept. 18; Serial No. 252,066; published July 10, 1928.
Canned fruits. Scoville & Co. 247,049; Sept. 18; Serial No. 264,737; published July 3, 1928.
Canned grapefruit. Florida Fruit Canners Inc. 246,842; Sept. 18; Serial No. 261,052; published July 3, 1928.
Canned pork and beans, blackberries, and lima beans, etc. Orange Products Co. 246,964; Sept. 18; Serial No. 254,470; published July 3, 1928.
Canned vegetables. Friday Canning Corporation. 247,071; Sept. 18; Serial No. 260,819; published July 10, 1928.
Canned vegetables and fruits, noodles, etc. Van Buren County Canning Company. 247,092; Sept. 18; Serial No. 259,476; published July 3, 1928.
Canned vegetables, canned deciduous fruits, etc. Squire Dingee Company. 247,104; Sept. 18; Serial No. 264,781; published July 3, 1928.
Cereal food product. S. H. Perky. 246,948; Sept. 18; Serial No. 266,398; published July 3, 1928.
Cheese. O. Roth & Co. A.-G. Export in Schweizerkäse (Emmenthaler). 246,825; Sept. 18; Serial No. 262,181; published July 10, 1928.
Coffee. Albert Ehlers, Inc. 247,154–5; Sept. 18; Serial Nos. 266,721–2; published July 3, 1928.
Coffee. R. S. Geblert & Co. 246,946; Sept. 18; Serial No. 266,368; published July 3, 1928.
Coffee. Hale-Halsell Company. 247,038; Sept. 18; Serial No. 265,210; published July 3, 1928.
Coffee. Hale-Halsell Company. 247,128; Sept. 18; Serial No. 266,200; published July 3, 1928.
Coffee and tea. Fineart Foods, Inc. 246,840; Sept. 18; Serial No. 262,958; published July 3, 1928.
Coffee substitute. California Fig-Co Company Inc. 246,933; Sept. 18; Serial No. 265,615; published July 10, 1928.
Coffee, tea, canned meats, etc. C. W. Zaring & Co. 247,051; Sept. 18; Serial No. 252,539; published Feb. 21, 1928.
Confection. M. P. French. 247,029; Sept. 18; Serial No. 264,514; published July 10, 1928.
Eggs. Eldinger & Hager, Inc. 247,066; Sept. 18; Serial No. 266,982; published July 10, 1928.
Eggs, butter, cheeses, milk, and cream. Thompson's Dairy. 247,158; Sept. 18; Serial No. 266,692; published July 3, 1928.
Fat, Vegetable. I. Kossoff. 246,828; Sept. 18; Serial No. 262,568; published July 10, 1928.
Feeds, Mill. Lawrenceburg Roller Mills Co. 247,039; Sept. 18; Serial No. 265,218; published July 10, 1928.
Fish. San Juan Fishing & Packing Co. 246,971; Sept. 18; Serial No. 256,544; published July 3, 1928.
Flavors, Food. H. M. Levy. 246,958; Sept. 18; Serial No. 265,048; published July 3, 1928.
Flour, Bread and wheat biscuit. Central Milling Co. of Tennessee. 246,891; Sept. 18; Serial No. 242,948; published July 3, 1928.
Flour, Self-rising. Carr Milling Company. 247,096; Sept. 18; Serial No. 258,162; published July 10, 1928.
Flour, Wheat. Commander Milling Company. 247,160; Sept. 18; Serial No. 266,648; published July 3, 1928.
Flour, Wheat. Galveston Mills. 247,053; Sept. 18; Serial No. 252,244; published July 3, 1928.
Flour, Wheat. Kansas Mill & Elevator Company. 246,931; Sept. 18; Serial No. 265,651; published July 3, 1928.
Flour, Wheat. Montana Flour Mills Company. 246,950; Sept. 18; Serial No. 266,435; published July 3, 1928.
Food, Bird. W. Mack. 247,000; Sept. 18; Serial No. 265,849; published July 10, 1928.
Food preparations. James A. Alcardi & Sons Inc. 246,909; Sept. 18; Serial No. 265,249; published July 3, 1928.
Fruits, Dried. Garcia & Maggini Company. 247,011; Sept. 18; Serial No. 264,876; published June 19, 1928.
Fruits, Fresh citrus. Redlands Select Groves, Inc. 247,170; Sept. 18.
Fruits, Fresh deciduous. Rocky Hill Corporation. 246,920; Sept. 18; Serial No. 257,484; published Jan. 17, 1928.
Grapefruit, Fresh. Hills Brothers Company. 246,943; Sept. 18; Serial No. 266,320; published July 3, 1928.
Grapes, Fresh. E. A. Couture. 247,063; Sept. 18; Serial No. 266,976; published July 10, 1928.
Gum and cachous, Chewing. American Chicle Company. 247,091; Sept. 18; Serial No. 259,667; published July 3, 1928.
Gum, Chewing. Mint Gum Company. 246,977–8; Sept. 18; Serial Nos. 237,380–1; published Nov. 2, 1926.
Honey. John G. Paton Company. 246,997; Sept. 18; Serial No. 265,926; published July 3, 1928.
Ice-cream confections. Eskimo Pie Corporation. 246,906; Sept. 18; Serial No. 257,974; published July 3, 1928.
Jam. Liberty Orchards Company. 246,962; Sept. 18; Serial No. 254,463; published July 10, 1928.
Margarine. Georg Schicht A. G. 247,094; Sept. 18; Serial No. 258,592; published July 3, 1928.
Meat and preserves. Naamlooze Vennootschap E. Noack's Koninklijke Fijne Vleeschwaren-en Conservenfabrieken. 246,905; Sept. 18; Serial No. 257,593; published July 3, 1928.
Olive oil, Pure. Carbonell y Ca. 247,079; Sept. 18; Serial No. 259,842; published July 3, 1928.
Oranges, lemons, and grapefruit. Chula Vista Citrus Association. 247,116; Sept. 18; Serial No. 263,460; published July 10, 1928.
Oranges, lemons, and grapefruit. Teague-McKevett Company. 246,019; Sept. 18; Serial No. 250,871; published July 10, 1928.
Pineapple, Glacé. Hawaiian Packing Company. 247,035; Sept. 18; Serial No. 264,580; published July 10, 1928.
Potato sticks. Manor Food Products Company. 246,826; Sept. 18; Serial No. 262,521; published July 10, 1928.
Prune paste. California Prune & Apricot Growers Association. 247,117; Sept. 18; Serial No. 263,457; published July 3, 1928.
Shortening. Musher and Company. 247,002; Sept. 18; Serial No. 265,840; published July 3, 1928.
Shortening, Vegetable. Texas Vegetable Oil Co. 247,150; Sept. 18; Serial No. 266,840; published July 3, 1928.
Syrup. B. N. Daviss. 247,052; Sept. 18; Serial No. 252,370; published June 12, 1928.
Syrup, Malt. G. E. Linthicum. 247,126; Sept. 18; Serial No. 266,207; published July 3, 1928.
Syrup, Malt. Ohio Malt Products Co. 246,947; Sept. 18; Serial No. 266,395; published July 3, 1928.
Syrup, Malt. J. M. Silver. 246,843; Sept. 18; Serial No. 261,222; published July 3, 1928.

Syrup, Malt. S. Stone. 247,007; Sept. 18; Serial No. 264,783; published June 19, 1928.
Tea. W. T. Abbott. 246,131; Sept. 18; Serial No. 266,180; published July 3, 1928.
Tomato juice, Bottled or canned. Kemp Brothers Packing Co. 246,876; Sept. 18; Serial No. 263,951; published July 3, 1928.
Tomatoes. Imperial Produce Company. 246,975; Sept. 18; Serial No. 257,678; published July 10, 1928.
Vegetable relish. G. W. Martin. 247,110; Sept. 18; Serial No. 263,553; published July 10, 1928.
Vegetables, Fresh. F. S. Okutani. 247,151; Sept. 18; Serial No. 266,825; published July 3, 1928.

CLASS 50.

Tents, tarpaulins, and wagon covers. W. F. Crawford Company. 246,970; Sept. 18; Serial No. 256,453; published Mar. 20, 1928.

ALPHABETICAL LIST OF LABELS.

Beech-Nut Brand Chewing Gum, Spearmint. For Chewing Gum. Beech-Nut Packing Company. 34,581–2; Sept. 18.
Beech-Nut "Mints" Clove. For Candy. Beech-Nut Packing Company. 34,583; Sept. 18.
Ben Lewis. For Boxes. Hoague-Sprague Corporation. 34,601; Sept. 18.
Berkshire Footwear Corp. For Boxes. Hoague-Sprague Corporation. 34,588; Sept. 18.
Churchwells. For Boxes. Hoague-Sprague Corporation. 34,600; Sept. 18.
Cox Brothers. For Boxes. Hoague-Sprague Corporation. 34,594; Sept. 18.
Helfand Shoe Co., Inc. For Boxes. Hoague-Sprague Corporation. 34,586; Sept. 18.
It May Seem Strange But Adults are Beginning to Take Castor Oil. For Castor Oil. E. R. Squibb & Sons. 34,605; Sept. 18.
J. B. Ivey & Co. For Boxes. Hoague-Sprague Corporation. 34,585; Sept. 18.
Miller & Rhoads. For Boxes. Hoague-Sprague Corporation. 34,587; Sept. 18.
Mirror Shoe Stores. For Boxes. Hoague-Sprague Corporation. 34,595; Sept. 18.
Muhlfelders Inc. For Boxes. Hoague-Sprague Corporation. 34,599; Sept. 18.
Napa Valley Pale Dry Ginger Ale. For Ginger Ale. St. Helena Bottling & Cold Storage Company. 34,606; Sept. 18.
Original Frederick. For Malt Syrup. W. C. Lehnert. 34,584; Sept. 18.
Parisian Modes. For Boxes. Hoague-Sprague Corporation. 34,592; Sept. 18.
Princess Boot Shop. For Boxes. Hoague-Sprague Corporation. 34,590; Sept. 18.
Sheridan Square. For Boxes. Hoague-Sprague Corporation. 34,603; Sept. 18.
Sill's. For Boxes. Hoague-Sprague Corporation. 34,589; Sept. 18.
Smart Shop. For Boxes. Hoague-Sprague Corporation. 34,593; Sept. 18.
Stix, Baer & Fuller. For Boxes. Hoague-Sprague Corporation. 34,602; Sept. 18.
Styler. For Boxes. Hoague-Sprague Corporation. 34,596; Sept. 18.
Stylo. For Boxes. Hoague-Sprague Corporation. 34,591; Sept. 18.
The Puss in Boots. For Boxes. Hoague-Sprague Corporation. 34,597; Sept. 18.
To The Wise Smoker. For Dental Cream. E. R. Squibb & Sons. 34,604; Sept. 18.
Tufsole Shoes. For Boxes. Hoague-Sprague Corporation. 34,598; Sept. 18.

ALPHABETICAL LIST OF PRINTS.

All The Day Through. For Tobacco. R. J. Reynolds Tobacco Company. 11,218; Sept. 18.
Breaking In. For Dental Cream. E. R. Squibb & Sons. 11,227; Sept. 18.
Cleaning Your Teeth Should Be More Than A Habit. For Dental Cream. E. R. Squibb & Sons. 11,222; Sept. 18.
Every Year 2,000,000 Sick-Beds Are Occupied Because Of Preventable Sickness. For Bicarbonate of Soda, Epsom Salt, Milk of Magnesia, Castor Oil, Etc. E. R. Squibb & Sons. 11,223; Sept. 18.
First Aid To Smokers. For Dental Cream. E. R. Squibb & Sons. 11,226; Sept. 18.
5 Years Old And 52 Teeth. For Dental Cream. E. R. Squibb & Sons. 11,233; Sept. 18.
I'll Make A Prediction. For Tobacco. R. J. Reynolds Tobacco Company. 11,210; Sept. 18.
It's Time You Got Squared Away. For Tobacco. R. J. Reynolds Tobacco Company. 11,217; Sept. 18.
Little Adventurers, New, Better Ways to Guide Them. For Wheat Breakfast Food. Cream of Wheat Co. 11,212; Sept. 18.
No Need To Put Up With Hydrolysis. For Shaving Cream. E. R. Squibb & Sons. 11,229; Sept. 18.
On These Hot Days Protect Your Health. For Milk of Magnesia. E. R. Squibb & Sons. 11,228; Sept. 18.
P. A.? You Bet It Is. For Tobacco. R. J. Reynolds Tobacco Company. 11,213; Sept. 18.
Serving A Science That Safeguards Life. For Bicarbonate of Soda, Epsom Salt, Tasteless Castor Oil, Milk of Magnesia. E. R. Squibb & Sons. 11,221; Sept. 18.
Simple Facts About Caring For Your Teeth and Gums. For Dental Cream. E. R. Squibb & Sons. 11,230; Sept. 18.
They Told Me To Try P. A. For Tobacco. R. J. Reynolds Tobacco Company. 11,219; Sept. 18.
This Great New Shaving Cream Saves Your Skin. For Shaving Cream. E. R. Squibb & Sons. 11,225; Sept. 18.
To Administer Castor Oil Easily—Use Squibb's—It Is Tasteless And Odorless. For Castor Oil. E. R. Squibb & Sons. 11,220; Sept. 18.
To All Men With "Hair-Trigger" Skins A Word About Hydrolysis. For Shaving Cream. E. R. Squibb & Sons. 11,224; Sept. 18.
What Happens When You Clean Your Teeth. For Dental Cream. E. R. Squibb & Sons. 11,232; Sept. 18.
You Can Control Hydrolysis—That Enemy To Pleasant Shaving. For Shaving Cream. E. R. Squibb & Sons. 11,231; Sept. 18.
You Can't Beat It, Men. For Tobacco. R. J. Reynolds Tobacco Company. 11,215; Sept. 18.
You're What I Call A Friend. For Tobacco. R. J. Reynolds Tobacco Company. 11,214; Sept. 18.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF SEPTEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrechcinski, Peter, Buffalo, N. Y. Automobile tire. 1,685,013; Sept. 18.

Acheson, James M., Los Angeles, Calif. Brush structure. 1,684,855; Sept. 18.

Ackerman, Charles L., assignor to Lima Sheet Metal Products Company, Lima, Ohio. Ironing board. 1,684,378; Sept. 18.

Adamston Flat Glass Company. (See Hart, Thomas B., assignor.)

Ad-Tape Co. Inc. (See Close, Wilmot S., assignor.)

Advertisers Service Bureau. (See Pickett, R. C., and Thompson, assignors.)

Adye, John F., Hilton, England. Spring suspension for motor vehicles. 1,684,692; Sept. 18.

Agfa Ansco Corporation. (See Bornmann, Carl A., assignor.)

Ajax-Brand Lock Corporation. (See Brand, Charles, assignor.)

Ajax Metal Company, The. (See Northrup, Edwin F., assignor.)

Albers, George, Seattle, Wash. Soya-bean flour and producing the same. 1,684,654; Sept. 18.

Alert Products, Inc. (See Norton, Arthur G., assignor.)

Alexander, Arthur A., New York, N. Y. Flywheel. 1,684,568; Sept. 18.

Allegheny Steel Company. (See Hostettler, Leigh W., assignor.)

Allemeier, Henry, assignor to The Woodcraft Company, Toledo, Ohio. Article of furniture. 1,684,936; Sept. 18.

Allis-Chalmers Manufacturing Company. (See Pfau, Arnold, assignor.)

Aluminum Company of America. (See Sharp, John E., assignor.)

American Automotive Corporation. (See Werby, A. Benjamin, assignr.)

American Can Company. (See Leighton, George A., assignor.)

American Can Company. (See Young, John M., assignor.)

American Cyanamid Company. (See Cox, George E., assignor.)

American Flyer Mfg. Co. (See Becker, Harry S., assignor.)

American Sales Book Company. (See Rice, Willis B., assignor.)

American Telephone and Telegraph Company. (See Honaman, Richard K., assignor.)

American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)

American Telephone and Telegraph Company. (See Thomey, John F., assignor.)

Amon, Josef, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric terminal. 1,684,383; Sept. 18.

Anderson, Abram A., New York, N. Y. Aircraft. 1,685,014; Sept. 18.

Anderson, Jesse I., assignor to J. I. Holcomb Mfg. Co., Indianapolis, Ind. Mop. 1,684,379; Sept. 18.

Anthony, Herman R. C., assignor to French Battery Company, Madison, Wis. Dry-battery package. 1,684,856; Sept. 18.

Apelt, Charles, Comfort, Tex. Wall pocket. Des. 76,338; Sept. 18.

Appleby, Charles R., Bolivar, N. Y. Power winch for tractors. 1,684,857; Sept. 18.

Arden, Harry B., New York, N. Y. Building monolithic concrete underground structures. 1,684,816; Sept. 18.

Armstrong, Clifford G., assignor of one-half to H. C. Armstrong, Meriden, Conn. Safety device for foot-power presses. 1,684,569; Sept. 18.

Armstrong, Herbert C. (See Armstrong, Clifford G., assignor.)

Artistic Brass & Bronze Works, Inc. (See Perlmutter, Henry A., assignor.)

Ashcraft, Clarence S., Los Angeles, Calif. Arc lamp. 1,684,655; Sept. 18.

Ashenburst, Harold S., assignor, by mesne assignments, to Insulex Corporation, Chicago, Ill. Insulated roof. 1,684,527; Sept. 18.

Atherton, Alfred L. (See Smith, B. H. Atherton, and Greibach.)

Autopoint Products Company. (See Lynn, John P., assignor.)

Aycock, Francis M., assignor of forty-nine one-hundredths to J. Marsh, Soldiers Home, Los Angeles, Calif. Jack. 1,685,015; Sept. 18.

Babbitt, Edwin V., Fairhaven, assignor to International Toy Corporation, New Bedford, Mass. Toy sea scooter. Des. 76,339; Sept. 18.

Baetz, Henry, St. Louis, Mo. Air heater. 1,684,380; Sept. 18.

Bahr, John F., New York, N. Y. Cigarette case. 1,684,381; Sept. 18.

Bailey, Claude B., Wyandotte, Mich. Spark-plug gasket. 1,685,059; Sept. 18.

Bailey, Claude B., Wyandotte, assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Gasket. 1,684,656; Sept. 18.

Baker, Edwin M. (See Leslie, E. H., and Baker.)

Baker, George F., Cincinnati, Ohio. Safety danger signal for railroad tracks. 1,684,904; Sept. 18.

Baker, Joseph W. (See Nitsch, C. H., and Baker.)

Baker Perkins Company. (See Tugendhat, Robert G., assignor.)

Ballman, Edwin C., St. Louis, Mo., assignor to Valley Electric Company, Wilmington, Del. Motor-starting device. 1,684,937; Sept. 18.

Baltzer, Henry P., Hamburg, N. Y. Buckle. 1,684,786; Sept. 18.

Bankson, William R., Pittsburgh, Pa. Mail box. 1,684,384; Sept. 18.

Barber Asphalt Company, The. (See Hayden, Harold P., assignor.)

Barber-Colman Company. (See Colman, Howard D., assignor.)

Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Sundae-dish-forming machine. 1,684,465; Sept. 18.

Bard, Francis N. (See Marsh, Joseph R. C., assignor.)

Barr, John H., Ithaca, N. Y., assignor to Barr-Morse Corporation. Back-space mechanism. 1,684,428; Sept. 18.

Barr, John H., Ithaca, N. Y., assignor to Barr-Morse Corporation. Platen-adjusting mechanism. 1,684,429; Sept. 18.

Barr, John H., Ithaca, N. Y., assignor to Barr-Morse Corporation. Universal bar. 1,684,430; Sept. 18.

Barr-Morse Corporation. (See Barr, John H., assignor.)

Barrett Company, The. (See Eckert, Clarence R., assignor.)

Barrows, Donald S., Rochester, N. Y. Side frame. 1,684,787; Sept. 18.

Bartley, John M., assignor to General Combustion Company, Long Beach, Calif. Apparatus for supplying fuel to internal-combustion engines. 1,684,528; Sept. 18.

Barton, Francis M., assignor to Barton Spider Web System, Chicago, Ill. Form for concrete. 1,684,614; Sept. 18.

Barton Spider Web System. (See Barton, Francis M., assignor.)

Bartosh, Joseph F., assignor of one-half to F. Kablik, Weimar, Tex. Filing cabinet for prescriptions, etc. 1,684,761; Sept. 18.

Basmadjian, Paul K., Philadelphia, Pa. Grocer's helper. 1,684,529; Sept. 18.

Bass, Archie E., Baltimore, Md., assignor of forty-nine per cent to E. Strasmich, New York, N. Y. Wire tying or twisting device. 1,684,723; Sept. 18.

Bass, E. & J., Inc. (See Tennhardt, Elsa, assignor.)

Bassett, Preston R., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Feed-governing means for arc lamps. 1,684,817; Sept. 18.

Bassick Manufacturing Company, The. (See Davis, Ernest W., assignor.)

Bast, Frank J., New York, assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y. Pressure-controlled device. 1,684,530; Sept. 18.

Bastian, William B., Los Angeles, Calif. Quick-throw valve. 1,684,905; Sept. 18.

Batkin, Hyman, Brooklyn, N. Y. Carton. 1,684,385; Sept. 18.

Baumberger, Walter E., San Francisco, Calif. Wall-form tie structure. 1,684,382; Sept. 18.

Bayer, A. J., Company. (See Kauth, Nicholas, assignor.)

Bead Chain Manufacturing Company, The. (See Bryant, Waldo G., assignor.)

Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)

Beal, George E., Pasadena, Calif. Safety steering mechanism for automobiles. 1,684,657; Sept. 18.

Beardsley, Robert, Chicago Ill. Article-forming device. 1,684,466; Sept. 18.

Beardsley, Robert, Chicago Ill. Method of and apparatus for forming articles. 1,684,658; Sept. 18.

Becker, Harry S., River Forest, assignor to American Flyer Mfg. Co., Chicago, Ill. Bell-ringing toy locomotive. 1,684,764; Sept. 18.

Beckman, Arnold O., Pasadena Calif. Signaling device. 1,684,659; Sept. 18.
Behee, Joseph H., jr., Independence, Mo. Lettering on stone monuments and other hard substances. 1,684,431; Sept. 18.
Bell, John W., Ogdensburg, N. Y. Inclination indicator. 1,684,788; Sept. 18.
Beloit Iron Works. (See Berry, Earl E., assignor.)
Bendix Brake Company. (See Sanford, Roy S. assignor.)
Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Vacuum pipe connection for cylinder machines. 1,684,615; Sept. 18.
Bestehorn, Rudolf. (See Haeusser, F., and Bestehorn.)
Bicek, Frank J., Le Sueur Center, Minn. Sickle-bar section. 1,684,616; Sept. 18.
Bickford, Frederick E., Rochester, N. Y. Container for food products. 1,684,938; Sept. 18.
Biggert, Florence C., jr., Crafton, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Flying shears. 1,684,617; Sept. 18.
Bilharts, Charles, Strasbourg, France. Loom. 1,684,789; Sept. 18.
Billig, Fred W. (See Sparks, W., Scofield, Johnson, and Billig.)
Billig, Fred W., assignor to The Sparks-Withington Company, Jackson, Mich. Signaling device. 1,684,906; Sept. 18.
Binder, Peter E. (See Cullen, F. J., Binder, and Harshman.)
Bing-Werke, vorm. Gebr. Bing Aktiengesellschaft. (See Habicht, Georg, assignor.)
Binkele, Herman C., Tigard, Oreg. Copyholder. 1,685,041; Sept. 18.
Blair, George W., assignor to Mishawaka Rubber & Woolen Manufacturing Company Mishawaka, Ind. Shoe. 1,684,660; Sept. 18.
Blair, Robert S., Stamford, Conn. Railway signaling. 1,684,386; Sept. 18.
Blake, Francis H., 2d, Clayton, N. Y. Windshield cleaner. 1,684,907; Sept. 18.
Blake, Isabelle B., New York, N. Y. Folding box. 1,685,016; Sept. 18.
Blatterman, Albert S., Asbury Park, N. J., assignor to Ware Radio, Inc. Radiofrequency amplifier and making and operating the same. 1,684,939; Sept. 18.
Bloch, L. D., & Company. (See Simon, William J., assignor.)
Blomgren, Henry E., Brooklyn, N. Y. Spring-shackle anti-rattle attachment. 1,684,724; Sept. 18.
Bobbs, Arthur L., Chappaqua, assignor to Kenneth N. Woodward, trustee, Chappaqua, New Castle, N. Y. Building construction. 1,684,387; Sept. 18.
Boeye, Paul F., St. Paul, Minn., assignor to Waldorf Paper Products Company. Constructing shipping cases. 1,684,725; Sept. 18.
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Lighting and ignition switch. 1,684,940; Sept. 18.
Böhm, Georg, Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel Gaarden, Germany. Thrust bearing with fluid friction. 1,684,693; Sept. 18.
Boosey, Edward W. N., Detroit, Mich. Closet flange. 1,684,570; Sept. 18.
Boosey, Edward W. N., Detroit, Mich. Ferrule for connecting plumbing fittings with piping. 1,684,571; Sept. 18.
Boosey, Edward W. N., Detroit, Mich. Clean-out fitting for plumbing systems. 1,684,572; Sept. 18.
Boothe, Albert, Colfax, Iowa. Stringed musical instrument. 1,684,467; Sept. 18.
Bornmann, Carl A., assignor by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Finder. 1,684,531; Sept. 18.
Borough, Willard L. (See McLaine, W. L., and Borough.)
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Electric switch. 1,684,982; Sept. 18.
Bound Brook Oil-Less Bearing Company. (See Claus, Carl, assignor.)
Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for forming stranded articles. 1,684,532; Sept. 18.
Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-twisting apparatus. 1,684,533; Sept. 18.
Bowen, Charles O., Dora, Ala., assignor to W. B. Miller, trustee, Wallins Creek, Ky. Electric locomotive. 1,684,779; Sept. 18.
Bowlus, Claude A., Birmingham, Mich. Arc welding machine. 1,684,726; Sept. 18.
Bowman, John G., assignor of one-half to W. C. Haseltine, Kansas City, Mo. Valved spark plug. 1,685,017; Sept. 18.
Bowmaster, John O., Orbisonia, Pa. Screening machine. 1,685,018; Sept. 18.
Boyd, John, Byron, Calif. Hay rake and buncher. 1,684,573; Sept. 18.
Boye Needle Company, The. (See Flannery, John L., assignor.)
Boyle Manufacturing Company. (See Newman, Henry R., assignor.)
Braddock, Edward I., deceased, Cleveland, Ohio; R. H. Montgomery, executor. Gear chain. 1,685,019; Sept. 18.
Brand, Charles, White Plains, assignor to Ajax-Brand Lock Corporation, New York, N. Y. Safety door fastener. 1,684,790; Sept. 18.
Brandes Laboratories, Inc. (See Gerns, William H., assignor.)
Brayton, Ernest, et al. (See Harris, Marie, assignor.)
Breen, Emma B., Houston, Tex. Lingerie clasp. 1,685,020; Sept. 18.
Bretslaff, W. Herbert. (See Donley, Harold B., assignor.)
Brogden, Joah, Melrose Park, assignor to David Lupton's Sons Company, Philadelphia, Pa. Window. 1,685,060; Sept. 18.
Brown, Colin, Rochester, N. Y. Spraying device. 1,684,661; Sept. 18.
Brown-Lipe Gear Company. (See Carhart, George C., assignor.)
Brown, Warren G., Detroit, Mich. Pump. 1,684,468; Sept. 18.
Browne-Morse Company. (See Morse, Frank C., assignor.)
Broyles, Samuel G., Battle Mountain, Nev. Honey rick. 1,685,021; Sept. 18.
Brunelle, Frank O., Meriden, Conn. Lock. 1,684,908; Sept. 18.
Bryant, Waldo G., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Jump-ring coupling. 1,685,042; Sept. 18.
Buchanan, William C. (See Hall, W. O., and Buchanan.)
Buchwalter, Marguerite A., New York, N. Y. Lamp. Des. 76,340; Sept. 18.
Buda, Pasquale, New York, N. Y., assignor of one-fourth to F. Horowit, St. Louis, Mo. Stream motor. 1,684,469; Sept. 18.
Budd, Edward G., Manufacturing Company. (See Mayer, William J., assignor.)
Buente, Charles F., assignor to Concrete Products Company of America, Pittsburgh, Pa. Method of and apparatus for forming concrete pipe. 1,684,858; Sept. 18.
Bullivant, Francis J., assignor to Valley Electric Company, St. Louis, Mo. Short-circuiting device. 1,684,941; Sept. 18.
Burgess Battery Company. (See Hodge, Howard D., assignor.)
Burnelli, Vincent J., New York, N. Y. Retractable float for flying boats. 1,684,818; Sept. 18.
Burrowes, J. Boyd, et al. (See Harris, Marie, assignor.)
Bush, Robert R., and C. W. Dake, assignors to Pyle-National Company, Chicago, Ill. Duplex nozzle for locomotives. 1,684,791; Sept. 18.
Butler, George P., Boston, Mass. Sign. 1,684,470; Sept. 18.
Byers, John A. (See Smotzer, M. C., and Byers.)
C. G. Spring & Bumper Company, The. (See Homan, Clayton H., assignor.)
Cady, George B., Canastota, N. Y. Cross-chain link. 1,684,909; Sept. 18.
California Transit Company. (See McAbee, Louis U., assignor.)
Campbell, Horace L., St. Louis, Mo. Advertising device. 1,684,534; Sept. 18.
Campbell, Sterling H., St. Louis, Mo. Hanger for trousers and cravats. Des. 76,341; Sept. 18.
Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Clutch. 1,684,471; Sept. 18.
Carleton, Robert A., Newton, Mass. Electrical heating apparatus. 1,684,942; Sept. 18.
Carlsson, Ernst H., Oscarshamn, Sweden. Paving rammer. 1,684,574; Sept. 18.
Carpenter, Paul. (See Dellenbarger, Charles E., assignor.)
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr Fastener Company. (See Johnson, Gustav, assignor.)
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,685,061; Sept. 18.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,685,062; Sept. 18.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,685,063; Sept. 18.
Carrell, Hammel H., assignor of one-half to S. N. Jackson, Lubbock, Tex. Gas burner. 1,684,575; Sept. 18.
Carroll, James H. (See Myers, J. T., and Carroll.)
Carroll, William M. (See Pierce, E. M., and Carroll.)
Cartlidge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,684,943; Sept. 18.
Cartwright, James M., Clarksdale, Miss. Radio receiving circuit. 1,685,043; Sept. 18.
Cathcart, Harry G. Cleveland, Ohio. Electric heater. 1,684,472; Sept. 18.
Catlin, De Forest B., Boston, Mass. Diathermy and galvanic ear set. 1,684,859; Sept. 18.
Catlin, De Forest B., Boston, Mass. Eye-treating apparatus. 1,684,860; Sept. 18.
Cederstrom, Harold. (See Rosholt, T. W., and Cederstrom.)
Centofanti, Sam, Youngstown, Ohio. Fountain pen. 1,685,044; Sept. 18.
Cerny, Edward. (See Cerny, John, assignor.)

Cerny, John, St. Anthony, Idaho, assignor of one-half to E. Cerny, Spokane, Wash. Chair-leg brace. 1,684,727; Sept. 18.
Chapman, Arthur W., London, England. Slidable seat for vehicles and the like. 1,684,944; Sept. 18.
Chapman, Ulysses S., Carthage, Mo. Needle holder. 1,684,473; Sept. 18.
Chase, George C., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Multiplier mechanism for calculating machines. 1,685,074; Sept. 18.
Chatham, Frank L., Orleans, Ind. Cooling and ventilating device. 1,684,474; Sept. 18.
Chausse, Francis W. (See Luck, William F., assignor.)
Chisum, Earl D. (See Collier, J. H., and Chisum.)
Churchill's, Incorporated. (See Kunal, Andrew E., assignor.)
Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
Cincinnati Butchers' Supply Company, The. (See Fritz, Rudolph A., jr., assignor.)
Cincinnati Grinders Incorporated. (See Einstein, Sol, assignor.)
Clapp, Albert L., Danvers, Mass. Synthetic resin fiber board. 1,684,755; Sept. 18.
Clark, Horace W., Mattoon, Ill. Box or casing cover with fastener. 1,684,983; Sept. 18.
Clarke, Clement S., assignor to Oil City Iron Works, Shreveport, La. Core-drilling head. 1,685,045; Sept. 18.
Claus, Carl, Plainfield, assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Self-aligning bearing and making same. 1,684,984; Sept. 18.
Cleaver, George E., assignor to Penn Hardware Company, Inc., Reading, Pa. Pin-tumbler lock. 1,685,022; Sept. 18.
Clemens, John G., Eggertsville, assignor to Pierce Renewable Fuses, Inc., Buffalo, N. Y. Renewable fuse. 1,684,432; Sept. 18.
Cleveland Folding Machine Company, The. (See Olson, A., and Tufts, assignors.)
Cleveland Trust Company, The. (See Ryan, Daniel J., assignor.)
Climax Rock Drill & Engineering Works Limited, The. (See Penberthy, Ernest, assignor.)
Close, Wilmot S., Brooklyn, assignor to Ad-Tape Co. Inc., New York, N. Y. Shipping by parcel post. 1,684,756; Sept. 18.
Clow, James B., & Sons. (See Smotzer, M. C., and Byers, assignors.)
Coates, Frank, Cleadon, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electrical switch gear. 1,684,694; Sept. 18.
Coleman, William B., Philadelphia, Pa. Automatic humidifying device. 1,684,757; Sept. 18.
Collier, John H., and E. D. Chisum, Altus, Okla.; said Chisum assignor to said Collier. Fuel-tank attachment. 1,684,475; Sept. 18.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Thread-handling mechanism. 1,684,945; Sept. 18.
Colombo, Anselmo. (See Lorenzi, L., and Colombo.)
Concrete Engineering Company. (See Ochiltree, Ned A., assignor.)
Concrete Products Company of America. (See Buente, Charles F., assignor.)
Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)
Conner, Harry G., Detroit, Mich. Golf indicating mechanism. 1,684,576; Sept. 18.
Cooper, Erwin C., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,684,910; Sept. 18.
Copeland Products, Inc. (See Litle, Thomas J., jr., assignor.)
Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,684,388; Sept. 18.
Cowan, Frank, Rochester, Minn. Doorcheck. 1,685,023; Sept. 18.
Cox, George E., Niagara Falls, assignor to American Cyanamid Company, New York, N. Y. Cyanamide oven. 1,684,758; Sept. 18.
Crane Co. (See Wayman, C. A. G., and Gartz, assignors.)
Crawford, Carl H. (See Thompson, Willis D., assignor.)
Creamery Package Mfg. Company, The. (See Hippenmeyer, Irving R., assignor.)
Creamery Package Mfg. Company, The. (See Larsen, Olaf, assignor.)
Crofoot, John B., Arlington Heights, Ill. Staple. 1,684,728; Sept. 18.
Crook, Louis H. (See Wragg, Charles A., assignor.)
Crouse-Hinds Company. (See Olley, Raymond H., assignor.)
Crowell, William B., New York, N. Y. Elevator-door-operating mechanism. 1,684,433; Sept. 18.
Cullen, Frank J., Culver City, P. E. Binder, El Segundo, and C. C. Harshman, Los Angeles, assignors to Standard Oil Company of California, San Francisco, Calif. Rotary acetylene torch. 1,684,476; Sept. 18.
Cutler-Hammer Mfg. Co., The. (See Amon, Josef, assignor.)
Dabelow, Martin. (See Philips, A., and Dabelow.)
Dake, Charles W. (See Bush, R. R., and Dake.)
Daubek, Georg, et al. (See Mislin, Eugen, assignor.)
Daubek, Joseph F., et al. (See Mislin, Eugen, assignor.)
Daumann, Wilhelm, assignor to C. H. F. Müller, Röntgenröhrenfabrik, Hamburg, Germany. Vacuum discharge apparatus. 1,684,947; Sept. 18.
Davis, Augustine, jr. (See Pierce, E. M., and Carroll, assignors.)
Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Pressing-machine element. 1,684,819; Sept. 18.
Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,684,946; Sept. 18.
Davis, William, St. Louis, Mo., assignor of one-half to Italian Swiss Colony, San Francisco, Calif. Safety plug. 1,684,911; Sept. 18.
Davis, William C., jr., Jasper, Ala. Safety switch system. 1,684,618; Sept. 18.
Davison, Dorsett A., Richmond, Va. Internal-combustion engine. 1,684,434; Sept. 18.
Davison, Dorsett A., Richmond, Va. Internal-combustion engine. 1,684,435; Sept. 18.
Day, Jack L., and E. L. Deschler, Sacramento, Calif. Antirattling device for automobile doors. 1,684,662; Sept. 18.
Deacon, George B., Los Angeles, Calif. Shooting game. 1,684,577; Sept. 18.
De Costa, Maria S., née Vincent. (See Maximoff, J., and De Costa.)
Degling, Alexander, Philadelphia, Pa. Metatarsal pad. 1,684,948; Sept. 18.
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
Dellenbarger, Charles E., Philadelphia, Pa., assignor to P. Carpenter, Glenview, Ill. Sheet-forming machine. 1,684,436; Sept. 18.
Demand, Joseph, New York, N. Y. Squeegee and the mounting thereof. 1,684,477; Sept. 18.
Demuth, William, & Company. (See Shoemaker, Bernard M., assignor.)
Denio, Robert. (See Denio, Robert J., assignor.)
Denio, Robert J., Oakland, assignor to R. Denio, Modesto, Calif. Automobile elevating apparatus. 1,684,729; Sept. 18.
Dentists' Supply Company, The. (See Gysi, Alfred, assignor.)
De Reign, Robert W., Santa Barbara, Calif. Music-leaf turner. 1,685,024; Sept. 18.
Derk, Joseph, assignor to The Derk Manufacturing Company, Doylestown, Pa. Table scarf. Des. 76,342; Sept. 18.
Derk Manufacturing Company, The. (See Derk, Joseph, assignor.)
Deschler, Edward L. (See Day, J. L., and Deschler.)
Detroit Concrete Receptacle Company. (See Urban, Joseph P., assignor.)
Deutsche Gold- und Silberscheideanstalt. (See Riefenstahl, Gustav, assignor.)
Dewes, Arthur B., St. Louis, Mo. Amusement device. 1,684,535; Sept. 18.
Dilks, John H., Philadelphia, Pa. Switch apparatus. 1,685,070; Sept. 18.
Dilks, John H., assignor to Electric Power Equipment Corporation, Philadelphia, Pa. Switch-operating mechanism. 1,685,069; Sept. 18.
Dill, John C., Vancouver, British Columbia, Canada. Grain-stowage device. 1,684,478; Sept. 18.
Dill, Richard E., Alexandria, Nebr. Manufacture of reenforced concrete. 1,684,663; Sept. 18.
Dirschauer, Jacob A., Evansville, Ind. Agricultural machine. 1,684,861; Sept. 18.
Dobson, William A., Bridgeport, Conn., assignor to The Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,684,820; Sept. 18.
Donley, Harold B., Columbus, Ohio, assignor of one-third to W. H. Bretzlaff, Indianapolis, Ind. Incandescent-lamp bulb. 1,684,949; Sept. 18.
Dornseif, Hugo, Radevormwald, Germany. Manufacture of skate blades with thickened edges. 1,684,950; Sept. 18.
Dorsey, Herbert G., Gloucester, Mass. Device for the reproduction of wave motion. 1,684,759; Sept. 18.
Dowdall, James T., Glen Morris, N. Y. Spool-holding device. 1,684,951; Sept. 18.
Doxford, Robert P. (See Keller, Karl O., assignor.)
Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Self-contained breathing apparatus. 1,684,664; Sept. 18.
Dräger, Elfriede, née Stange, executrix. (See Dräger, Alexander B.)
Draper Corporation. (See Heard, Nathan, assignor.)
Draper, Frank N., Denver, Colo. Lighting device for vehicles. 1,684,695; Sept. 18.
Dubilier Condenser Corporation. (See Houck, Harry W., assignor.)
Dubilier Condenser Corporation. (See Van Deventer, Harry R., assignor.)
Duluth Show Case Company. (See Ostram, R. A., and Frykdahl, assignors.)
Duncan, Arthur. (See Jackson, Nelson, assignor.)
Dunklau, Casper T., Los Angeles, Calif. Musical-instrument stand. 1,684,912; Sept. 18.
Duplex Gas Turbine Company, The. (See Hawthorn, James M., assignor.)
Dwight & Lloyd Metallurgical Company. (See Hyde, Reed W., assignor.)

Earl, Harley J. (See Seaholm, E. W., and Earl.)
Eastman, Thomas F., Berkeley, Calif. View finder for cameras. 1,684,821; Sept. 18.
Eckert, Clarence R., Highwood, N. J., assignor to The Barrett Company. Shingle holder. 1,684,479; Sept. 18.
Edwards, William K., Big Spring, Tex. Gate-closing device. 1,684,578; Sept. 18.
Edwards, William W., Los Angeles, Calif. Radial drill. 1,684,665; Sept. 18.
Eize, Jacob, assignor to The Fisher Governor Company, Inc., Marshalltown, Iowa. Bearing construction for float-arm shafts. 1,685,046; Sept. 18.
Einstein, Sol, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine having balanced spindle. 1,684,792; Sept. 18.
Eisner, Joseph, et al. (See Newmark, Aaron S. assignor.)
Electric Boat Company. (See Nibbs, Ernest, assignor.)
Electric Machinery Mfg. Company. (See Hibbard, Charles T., assignor.)
Electric Power Equipment Corporation. (See Dilks, John H., assignor.)
Electro Metallurgical Company. (See Feild, Alexander L., assignor.)
Electro Metallurgical Company. (See Read, William C., assignor.)
Elevator Supplies Company. (See Shonnard, Harold W., assignor.)
Elliott-Fisher Company. (See Pitman, Henry L., assignor.)
Endsley, Louis E. assignor to Verona Tool Works, Pittsburgh, Pa. Rail-joint spring. 1,684,619; Sept. 18.
Engineering Development Company. (See Johnsen, Einer A., assignor.)
Esleck, William C., Whitestone, N. Y. Transmission device for marine motors. 1,684,952; Sept. 18.
Evans, Marshall W., Detroit, Mich. Mixing device for internal-combustion engines. 1,684,480; Sept. 18.
Evans, William L., Washington, Ind. Ring-joint machine. 1,684,760; Sept. 18.
Everett, Edward A., New York, N. Y. Supporting bracket for railway signals. 1,684,953; Sept. 18.
Exley, Leo F., Johnson City, N. Y. Brush. 1,684,481; Sept. 18.
Eze Cushion Corporation. (See Horn, Jacque E., assignor.)
Fairbanks, E. Hayward. (See Haag, Alfred H., assignor.)
Fanner Mfg. Co., The. (See Gibson, Samuel H., assignor.)
Faulkner, David S., and E. Timbs, Los Angeles, Calif., assignors to The National Supply Company of Delaware, New York, N. Y. Draw-works drum and locking the drums and flange sections thereof. 1,684,482; Sept. 18.
Federal Abrasive Company. (See White, Harold E., assignor.)
Federal Manufacturing Company. (See Olinger, Thomas, assignor.)
Federal Telegraph Company. (See Kolster, F. A., and Sollie, assignors.)
Feild, Alexander L., New York, N. Y., assignor to Electro Metallurgical Company. Alloy and making the same. 1,684,696; Sept. 18.
Feller, Albert. (See Schmidt, O., Seydel, and Feller.)
Ferguson, James E., Cleveland, and H. L. Mooney, East Cleveland, assignors to The Lake Lithograph Company, Cleveland, Ohio. Display carton. 1,684,579; Sept. 18.
Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-drawing apparatus. 1,684,437; Sept. 18.
Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Process and apparatus for maintaining sheet glass to width. 1,684,438; Sept. 18.
Finney, James M. (See Schroeder, Anthony, assignor.)
Fischer, Arthur H., assignor to Guggenheim Brothers, New York, N. Y. Flotation process. 1,684,536; Sept. 18.
Fisher Governor Company, The. (See Eize Jacob, as-Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Yellow azo dyestuff and preparing the same. 1,684,762; Sept. 18.
Fisher Governor Company, The. (See Eize Jacob, assignor.)
Fishwick, Albert B., Cincinnati, Ohio. Bag closure. 1,684,793; Sept. 18.
Flannery, John L., assignor to The Boye Needle Company, Chicago, Ill. Commodity cabinet. 1,684,913; Sept. 18.
Flath, Otto S., Chicago, Ill. Switch and signal-rod-carrier support. 1,684,954; Sept. 18.
Flowers, Henry F., Findlay, Ohio. Snowplow. 1,684,439; Sept. 18.
Forbes, Samuel L., Mount Vernon, N. Y., assignor to The Globe-Wernicke Company. Card index. 1,684,620; Sept. 18.
Ford, Eugene A., Scarsdale, assignor to The Tabulating Machine Company, Endicott, N. Y. Card feeding and handling device. 1,684,389; Sept. 18.
Fox, Ralph P., Harrisburg, Pa. Dirigible airship. 1,684,730; Sept. 18.
Frambach, Mathew J. Hartley, Iowa. Chain coupler. 1,684,580; Sept. 18.
Franklin, H. H., Manufacturing Company. (See Marks, Edward S., assignor.)
Frantz, Harry F., Cleveland, Ohio. Crutch attachment. 1,684,697; Sept. 18.
Fraser, Frank, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-edge-forming means. 1,684,440; Sept. 18.
Frazier, Charles A., Fair Oaks, Calif. Pipe band. 1,684,666; Sept. 18.
Freeman, Benjamin W. (See Thomas, Alfred J., assignor.)
Freeman, Beryl, Cambridge, Ohio. Polishing attachment for vacuum cleaners. 1,684,698; Sept. 18.
French Battery Company. (See Anthony, Herman R. C., assignor.)
French, Harry W., Syracuse, N. Y. Warm-air furnace. 1,684,914; Sept. 18.
Frenette, Harry E., Duluth, Minn. Radius tool. 1,684,667; Sept. 18.
Fried. Krupp Aktiengesellschaft. (See Hauptmeyer, Friedrich, assignor.)
Fried. Krupp Germaniawerft Aktiengesellschaft. (See Böhm, Georg, assignor.)
Fritts, Wilfred G., Lexington, N. C. Tire-splitting machine. 1,684,763; Sept. 18.
Fritz, Rudolph A., jr., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Shelving. 1,685,064; Sept. 18.
Froesch, Charles. (See Masury, A. F., and Froesch.)
Frye, Ezra H., trustee. (See Lavoie, Joseph, assignor.)
Frykdahl, Carl E. (See Ostrum, R. A., and Frykdahl.)
Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Open-top drier. 1,685,047; Sept. 18.
Fulton, Jean M., Detroit, Mich. Apparatus for rectal, vaginal, and surgical uses. 1,684,621; Sept. 18.
Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Coupling for bead chains. 1,685,048; Sept. 18.
Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Oil-gear control for machine tools. 1,685,049; Sept. 18.
Garner, Samuel R., sr., Cleveland, Ohio. Battery terminal and cable clamp. 1,684,985; Sept. 18.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Lubricating mechanism. 1,684,668; Sept. 18.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,684,669; Sept. 18.
Gartz, Adolph F., jr. (See Wayman, C. A. G., and Gartz.)
Gasstrom, Herman, Mount Vernon, N. Y. Joint for extension rules. 1,684,483; Sept. 18.
Gay, Alfred F., assignor to H. J. Lupien, Brockton, Mass. Joint for pistons and connecting rods, etc. 1,684,862; Sept. 18.
Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,684,537; Sept. 18.
General Combustion Company. (See Bartley, John M., assignor.)
General Motors Corporation. (See Seaholm, E. W., and Earl, assignors.)
General Zeolite Company. (See Green, Walter H., assignor.)
Gerns, William H., East Orange, assignor to Brandes Laboratories, Inc., Newark, N. J. Electromagnetic sound reproducer. 1,685,050; Sept. 18.
Gibson, Samuel H., assignor to The Fanner Mfg. Co., Cleveland, Ohio. Metal-bending machine. 1,684,794; Sept. 18.
Giles, Isaac F., Malone, and J. A. Roberts, Bronxville, assignors, to Ilelte Electric Manufacturing Corporation, Tuckahoe, N. Y. Multiple-socket electric plug. 1,684,915; Sept. 18.
Gilkey, Augustine H., Chicago, Ill. Animal trap. 1,684,484; Sept. 18.
Gillies, Matthew C., Walkerville, Ontario, Canada. Overhead runway turntable. 1,684,986; Sept. 18.
Girardet, Jacques, Paris, France. Liquid-level indicator. 1,685,051; Sept. 18.
Glemby's, S., Sons Co. (See Hitzigrath, Paul E., assignor.)
Globe-Wernicke Company, The. (See Forbes, Samuel L., assignor.)
Globe-Wernicke Company. (See Ringler, William A., assignor.)
Globe-Wernicke Company, The. (See Smiley, Samuel, jr., assignor.)
Gnudi, Alfonso, Bologna, Italy. Display method. 1,684,795; Sept. 18.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,684,390; Sept. 18.
Goerz, C. P., Optische Anstalt, Aktiengesellschaft, Akciova Spolecnost K. P. Goerz Opticky Ustav. (See Petschenig, Karl, assignor.)
Goodwin, William M., Central Square, N. Y. Poppet-valve-actuating device. 1,684,955; Sept. 18.
Gordon, Barnett D., Boston, Mass. Stocking. Des. 76,343; Sept. 18.
Goshikaisha Jidosha Kyujoki Seisakusho. (See Nishida, S., Ota, and Inose, assignors.)

Gouverneur, Minor F. H., assignor to Locke Insulator Corporation, Baltimore, Md. High-tension insulator. 1,684,441; Sept. 18.
Grant, Garnet P., New York, N. Y. Coin-propelling device for vending machines. 1,684,863; Sept. 18.
Grasselli Dyestuff Corporation. (See Fischer, E., and Müller, assignors.)
Grasselli Dyestuff Corporation. (See Philips, A., and Dabelow, assignors.)
Grasselli Dyestuff Corporation. (See Schweitzer, H., and Neelmeier, assignors.)
Green, Harry J. (See Ward, J. P., and Hyde, assignors.)
Green, J Birchard, Chicago, Ill. Container for annealing and similar purposes. 1,684,391; Sept. 18.
Green, Walter H., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Water-treatment apparatus. 1,684,822; Sept. 18.
Greenberg, William, Bronx, assignor of one-half to E. Kaufman, Brooklyn, N. Y. Clasp jaw for fur scarfs or the like. Des. 76,344; Sept. 18.
Greene, Benjamin H., Canton, Ohio. Automatic electric control system. 1,685,052; Sept. 18.
Greibach, Emil H. (See Smith, B. H., Atherton, and Greibach.)
Grer, John A. (See Guerrero, E., and Grey.)
Grimshaw, Frederick H. (See Guild, W. J., and Grimshaw.)
Grohn, Henry P., Chicago, Ill. Cylinder and tire gauge. 1,684,864; Sept. 18.
Gruse, William A. (See Souther, B. L., and Gruse.)
Gulf Refining Company. (See Souther, B. L., and Gruse, assignors.)
Guerrero, Enrique, and J. A. Grey, Quito, Ecuador. Direction indicator for automobiles. 1,684,916; Sept. 18.
Guggenheim Brothers. (See Fischer, Arthur H., assignor.)
Guild, Waldo J., and F. H. Grimshaw, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,684,485; Sept. 18.
Guild, Waldo J., Worcester, Mass., and L. C. Kenyon, New York, N. Y., assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,684,486; Sept. 18.
Gulf Refining Company. (See Souther, B. L., and Gruse, assignors.)
Gulick, Edward J., Elkhart, Ind. Horn bell. 1,684,892; Sept. 18.
Gysi, Alfred, Zurich, Switzerland, assignor to The Dentists' Supply Company. Dental articulator. 1,684,393; Sept. 18.
Haag, Alfred H., Baltimore, Md., assignor of fifteen one-hundredths to E. H. Fairbanks, Merchantville, N. J. Loud speaker for radio receiving apparatus. 1,684,956; Sept. 18.
Haase, Max, Buchschlag, Germany. Sign controller. 1,684,394; Sept. 18.
Habib, Vita (now by court decree Vita Habif), Cincinnati, Ohio. Headgear. 1,684,670; Sept. 18.
Habicht, Georg, Nuremberg, Germany, assignor to the firm Bing-Werke, vorm. Gebr. Bing Aktiengesellschaft. Toy roundabout. 1,684,796; Sept. 18.
Habif, Vita (by court decree). (See Habib, Vita.)
Habighorst, August H., Marinette, Wis. Rural mail box. 1,684,823; Sept. 18.
Hadley Company, The. (See Tost, Charles R., assignor.)
Haeusser, Friedrich, and R. Bestehorn, Dortmund, Germany. Atomizer for liquids. 1,684,488; Sept. 18.
Hall, Walter O., and W. C. Buchanan, Franklin, Mass. Printing press. 1,684,781; Sept. 18.
Halloran, Ralph A., Berkeley, assignor, by mesne assignments to Standard Oil Company of California, San Francisco, Calif. Counterflow treatment of petroleum oils. 1,684,489; Sept. 18.
Hamblin, Fred B., assignor to The Weightograph Company, St. Louis, Mo. Scale. 1,684,957; Sept. 18.
Hammerlund, Lloyd A., Rockville Center, N. Y., assignor to The Hammerlund Manufacturing Company, Incorporated. Adjustable condenser. 1,684,917; Sept. 18.
Hammerlund Manufacturing Company, The. (See Hammerlund, Lloyd A., assignor.)
Haney William J., North Vernon, Ind. Tapper and protector for toe-dancing shoes. 1,684,442; Sept. 18.
Hansen, Bertram, and P. J. Ramion, Syracuse, N. Y. Ham-curing device. 1,684,865; Sept. 18.
Hansen, Charles P., Evan, Minn. Radio dial escutcheon plate. Des. 76,345; Sept. 18.
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Vacuum pump. 1,684,395; Sept. 18.
Harker, Ferris P., Bridgeport, Conn. Combination kitchen utensil. 1,684,622; Sept. 18.
Harris, Henry J., Youngstown, Ohio. Device for preventing collection of grease on rolls. 1,684,581; Sept. 18.
Harris, Marie, New York, N. Y., assignor of one-third to J. B. Burrowes, Washington, D. C., and one-third to R. Brayton, New York N. Y. Bedclothes clamp. 1,684,443; Sept. 18.
Harrison, William, Manchester, England. Manufacture of carbohydrate derivatives. 1,684,732; Sept. 18.
Harshman, Clarence C. (See Cullen, F. J., Binder, and Harshman.)
Harsin, Frank M., Nampa, Idaho, assignor of one-half to A. D. Leedy, Portland, Oreg. Tire carrier and tool kit. 1,684,699; Sept. 18.
Hart, Thomas B., Libow, assignor of one-half to Adamston Flat Glass Company, Clarksburg, W. Va. Glass furnace. 1,685,053; Sept. 18.
Hartwig, Charles W., Hastings-upon-Hudson, N. Y. Dispensing device. 1,684,623; Sept. 18.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,684,538; Sept. 18.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,684,539; Sept. 18.
Haseltine, William C. (See Bowman, John G., assignor.)
Hasler A.-G. vormals Telegraphenwerkstatte von G. Hasler. (See Zbinden, Ernst, assignor.)
Hauptmeyer, Friedrich, Essen assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Casting articles of corrosionproof steel. 1,684,700; Sept. 18.
Haven, Harry M. (See Pierini, A., Hopkins, and Haven.)
Hawthorn, James M., assignor to The Duplex Gas Turbine Company, Inc., Everett, Wash. Gas turbine. 1,684,824; Sept. 18.
Hayden, Alfred J., Daytona Beach, Fla. Hoe weeder. 1,684,444; Sept. 18.
Hayden, Harold P., Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Concrete construction. 1,684,624; Sept. 18.
Hayden, Harold P., Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Preventing evaporation from concrete during curing. 1,684,671; Sept. 18.
Hayman, Charles M. Brooklyn, N. Y. Diaphragm-control mounting. 1,684,701; Sept. 18.
Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Check valve. 1,684,987; Sept. 18.
Heald Machine Company, The. (See Guild, W. J., and Grimshaw, assignors.)
Heald Machine Company, The. (See Guild, W. J., and Kenyon, assignors.)
Heald Machine Company, The. (See Heald, R. A., Highberg, and Taylor, assignors.)
Heald, Richard A., C. J. Highberg, and E. M. Taylor, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,684,487; Sept. 18.
Heard, Nathan, Newton, assignor to Draper Corporation Hopedale, Mass. Loom dobby. 1,685,065; Sept. 18.
Hedeen, Elmer, assignor to The Hughes-Keenan Company, Mansfield, Ohio. Stair construction. 1,684,764; Sept. 18.
Hedeen, Elmer, assignor to The Hughes-Keenan Company, Mansfield, Ohio. Stair construction. 1,684,765; Sept. 18.
Hedeen, Elmer assignor to The Hughes-Keenan Company, Mansfield, Ohio. Metallic stair. 1,684,766; Sept. 18.
Heffelbower, George F., Flint, Mich. Safety-razor-blade holder. 1,684,830; Sept. 18.
Helmers, Rudolf, Tacubaya, Mex. Locking device for typewriters. 1,684,702; Sept. 18.
Henderson, James B., Lee, England. Gun sight. 1,684,825; Sept. 18.
Henderson, Nelson H., assignor to Syracuse Industrial Gas Co., Syracuse, N. Y. Pump. 1,684,490; Sept. 18.
Hetherington, Benjamin, Fall River, Mass. Harness hook for looms. 1,684,733; Sept. 18.
Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Radiocabinet or similar article. Des. 76,346; Sept. 18.
Heywood-Wakefield Company. (See Stinson, Richard, assignor.)
Hibbard, Charles T., assignor to Electric Machinery Mfg. Company, Minneapolis, Minn. Dynamo-electric machine. 1,685,054; Sept. 18.
Highberg, Carle J. (See Heald, R. A., Highberg, and Taylor.)
Hilgedick, Rudy, Chicago, Ill. Ironer. 1,684,584; Sept. 18.
Hill, David, West Barrington, R. I. Motor-vehicle beater. 1,684,672; Sept. 18.
Hill, Joseph E., Detroit, Mich. Conduit connecter. 1,684,826; Sept. 18.
Hill, Leonard J., Grand Rapids, Mich. Extension table. 1,684,831; Sept. 18.
Hillyard, Newton S., St. Joseph, Mo. Wiper. 1,684,625; Sept. 18.
Hinneken, Florent, Paterson, N. J. Reenforced flange. 1,684,396; Sept. 18.
Hintermann, Theodor, Bern, Switzerland. Harvesting machine with scatterer. 1,684,626; Sept. 18.
Hippenmeyer, Irving R., Waukegan, assignor to The Creamery Package Mfg. Company, Chicago, Ill. Bottle-washing apparatus. 1,684,827; Sept. 18.
Hippenmeyer, Irving R., Waukegan, assignor to The Creamery Package Mfg. Company, Chicago, Ill. Case-washing machine. 1,684,828; Sept. 18.
Hitzigrath, Paul E., Rockville Center, assignor to S. Glemby's Sons Co., Inc., New York, N. Y. Hair net. 1,684,734; Sept. 18.
Hoaglund, Earnest E., Minneapolis, Minn. Sanitary well cap and pipe clamp. 1,684,582; Sept. 18.
Hodge, Elvira W., administratrix. (See Hodge, Howard D.)
Hodge, Howard D., deceased, New York, N. Y.; E. W. Hodge, administratrix, Bridgeport, Conn., assignor to Burgess Battery Company, Madison, Wis. Dry-cell electrode. 1,684,735; Sept. 18.

Hoelle, John J., Sydney, New South Wales, Australia. Domestic hand tool. 1,684,829; Sept. 18.
Hoffman, Rudolph, Cleveland, Ohio. Burner. 1,684,585; Sept. 18.
Holbeach, Mary G., Portsmouth, England. Apparatus for indicating the direction or angle of stream lines in fluids particularly applicable for use in designing counter-propeller devices. 1,685,025; Sept. 18.
Holcomb, J. I., Mfg. Co. (See Anderson, Jesse I., assignor.)
Hollnagel, Theodore C., Milwaukee, Wis., assignor, by mesne assignments, to The Hughes-Keenan Company, Mansfield, Ohio. Truck. 1,684,673; Sept. 18.
Homan, Clayton H., Cleveland, Ohio, assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Hoist. 1,684,988; Sept. 18.
Honaman, Richard K., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Signaling system. 1,684,445; Sept. 18.
Honohan, Herbert L., assignor to W. D. Honohan, Chicago, Ill. Automobile alarm. 1,685,073; Sept. 18.
Honohan, William D. (See Honohan, Herbert L., assignor.)
Hooper, James P., Ruxton, assignor to William E. Hooper & Sons Company, Baltimore, Md. Package. 1,684,540; Sept. 18.
Hooper, William E., & Sons Company. (See Hooper, James P., assignor.)
Hoover Company, The. (See Lucke, Charles E., assignor.)
Hope, John F. and J. T., Kansas City, Mo. Apparatus for drying wood. 1,684,627; Sept. 18.
Hope, John T. (See Hope, John F. and J. T.)
Hopkins, Arthur T. (See Pierini, A., Hopkins, and Haven.)
Horn, Jacque E., assignor to Eze Cushion Corporation, New York, N. Y. Chair cushion. 1,684,989; Sept. 18.
Horowit, Frederick. (See Buda, Pasquale, assignor.)
Hostettler, Leigh W., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Journal-box lid. 1,684,541; Sept. 18.
Hostettler, Leigh W., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Journal-box lid. 1,684,542; Sept. 18.
Hottenstein, George E., jr. (See Hottenstein, George E., and G. E., jr.)
Hottenstein, George E. and G. E., jr., Spokane, Wash. Rotary valve mechanism for internal-combustion engines. 1,684,767; Sept. 18.
Houck, Harry W., East Orange, N. J., assignor, by mesne assignments, to Dubilier Condenser Corporation, New York, N. Y. Arrangement of electrical appliances. 1,684,703; Sept. 18.
Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Spring-beard knitting machine. 1,684,583; Sept. 18.
Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Needle-selector jacquard for knitting machines. 1,684,586; Sept. 18.
Howson, Thomas J., Marshfield, Oreg. Wire puller and twister for concrete framework. 1,684,797; Sept. 18.
Hoyt, Reginald H., Roslindale, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrostatic condenser. 1,684,491; Sept. 18.
Hubbard, Francis A., Wyoming, N. J., assignor to Western Electric Co., Incorporated, New York, N. Y. Electrical testing. 1,684,397; Sept. 18.
Hubbell, Harvey, deceased, Bridgeport, Conn.; L. E. Hubbell, executrix. Door control. 1,684,704; Sept. 18.
Hubbell, Louie E., executrix. (See Hubbell, Harvey.)
Huff, Hulah U. (See Turner, G. P., and Huff.)
Huffman, Louis, Toronto, Ontario, Canada, assignor to Schlage Lock Company, San Francisco, Calif. Knob lock. Re17,084; Sept. 18.
Hughes-Keenan Company, The. (See Hedeen, Elmer, assignor.)
Hughes-Keenan Company, The. (See Hollnagel, Theodore C., assignor.)
Hultgren, Christian, parish of Svinhult, Sweden. Tone post. 1,684,492; Sept. 18.
Hultman, Edgar W., Los Angeles, Calif. Carbon-monoxide-testing means and methods. 1,684,587; Sept. 18.
Hults, Eugene A., Saltville, Va. Drier. 1,685,026; Sept. 18.
Humble Oil & Refining Company. (See Nixon, Jeddy D., assignor.)
Humphreys, Walter G., Omaha, Nebr. Variable-speed mechanism. 1,684,705; Sept. 18.
Huttinger, William R., Philadelphia, Pa. High-voltage switch. 1,685,066; Sept. 18.
Huttinger, William R., Philadelphia, Pa. High-voltage switch. 1,685,067; Sept. 18.
Huttinger, William R., Philadelphia, Pa. Switch mechanism. 1,685,068; Sept. 18.
Hyde, Reed W., Summit, N. J., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treating fines of earthly minerals. 1,684,958; Sept. 18.
Hyde, Robert E. (See Ward, J. P., and Hyde.)
Hydraulic Brake Company. (See Sherbino, Morton R., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Luther, M., Pieroh, and Kranepuhl, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Nüssiein, Joseph, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, O., Seydel, and Feller, assignors.)
Ilcite Electric Manufacturing Corporation. (See Giles, I. F., and Roberts, assignors.)
Iler, George A., Cleveland, Ohio. Live-line-testing device. 1,684,768; Sept. 18.
Iler, George A., Youngstown, Ohio. Live-line and insulator testing device. 1,684,798; Sept. 18.
Independent Pneumatic Tool Company. (See Levedahl, Axel, assignor.)
Ingersoll-Rand Company. (See Wilhelm, Russell H., assignor.)
Inglis, Bruce K., assignor of one-half to C. W. Inglis, Milwaukee, Wis. Oil burner. 1,684,990; Sept. 18.
Inglis, Bruce K., assignor of one-half to C. W. Inglis, Milwaukee, Wis. Oil burner. 1,684,991; Sept. 18.
Inglis, Clement W. (See Inglis, Bruce K., assignor.)
Inglis, Newton R., Duluth, Minn. Stand. 1,684,446; Sept. 18.
Inoue, Gensuke. (See Nishida, S., Ota, and Inoue.)
Insulex Corporation. (See Ashenburst, Harold S., assignor.)
International Motor Company. (See Masury, A. F., and Froesch, assignors.)
International Time Recording Company of New York. (See Larrabee, Clinton E., assignor.)
International Toy Corporation. (See Babbitt, Edwin V., assignor.)
Italian-Swiss Colony. (See Davis, William, assignor.)
Jackson, Lester P., El Paso, Tex. Container for testing devices. 1,684,769; Sept. 18.
Jackson, Nelson, assignor of one-fourth to A. Duncan, Saskatoon, Saskatchewan, Canada. Rotary rod weeder. 1,684,992; Sept. 18.
Jackson, Solomon N. (See Carrell, Hammel H., assignor.)
Jaeschke, Alfred, Los Angeles, Calif. Can-spout-seal cutter. 1,684,447; Sept. 18.
Jansky, Charles G., Berwyn, Ill. Electrical connecter. 1,684,588; Sept. 18.
Jarboe, Grant, Findlay, Ohio. Shears sharpener. 1,684,866; Sept. 18.
Jaroch, Antonl, Yorkville, Ohio. Window screen. 1,685,027; Sept. 18.
Jassen, Bern and H., Brooklyn, N. Y. Bracket carrier for windshield deflectors. 1,684,493; Sept. 18.
Jassen, Harry. (See Jassen, Bern and H.)
Jeffrey Manufacturing Company, The. (See Lemmon, Alexis W., assignor.)
Jenkins, Charles F., Washington, D. C. Radio vision studio equipment. 1,684,736; Sept. 18.
Jenkins, Ralph W., Daleville, Ind. Combination door jamb and handhold. 1,684,832; Sept. 18.
Jensen, Olaus, Seattle, Wash. Umbrella. 1,684,628; Sept. 18.
Jenssen, G. D., Company. (See Jenssen, Jacob D., assignor.)
Jenssen, Jacob D., assignor to G. D. Jenssen Company, New York, N. Y. Apparatus for making bisulphite liquor. 1,684,494; Sept. 18.
Jereczek, Viktor, Weissensee, near Berlin, assignor to Stock Motorpflug Aktiengesellschaft, Berlin, Germany. Chain track for motor vehicles. 1,684,918; Sept. 18.
Johnsen, Einar A., Mountain Lakes, assignor to Engineering Development Company, New Brunswick, N. J. Condenser. 1,684,959; Sept. 18.
Johnson, Felix G., Clarinda, Iowa. Animal trap. 1,685,028; Sept. 18.
Johnson, Gustav, West Roxbury, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,685,055; Sept. 18.
Johnson, Lane, Ingram, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Method and apparatus for handling strips. 1,684,867; Sept. 18.
Johnson, Lloyd E. (See Sparks, W., Scofield, Johnson, and Billig.)
Johnston, Clarence S., Glendive, Mont. Disk wheel. 1,684,398; Sept. 18.
Jolly, James, Bolton, England. Drawing or drafting mechanism. 1,684,993; Sept. 18.
Jones, Irvin H., Manhattan, Ill., assignor to The Koppers Company, Pittsburgh, Pa. Production of resins. 1,684,868; Sept. 18.
Jorgen-Jensen, Erik, Edgbaston, Birmingham, England. Apparatus for casting under pressure. 1,684,994; Sept. 18.
Joy, Frank. (See Laterra, J., and Joy.)
Kahlik, Frank. (See Bartosh, Joseph F., assignor.)
Kaminsky, Rubin, Jersey City, N. J., assignor to Melrose Slipper Co. Inc., New York, N. Y. Turn shoe. 1,684,543; Sept. 18.
Kanné, Alexander R., Brooklyn, assignor to Kanné & Bessant, Inc., New York, N. Y. Lamp. Des. 76,347; Sept. 18.
Kanné & Bessant, Inc. (See Kanné, Alexander R., assignor.)
Karfiol, Edward, Brooklyn, N. Y. Dolly. Des. 76,348; Sept. 18.
Kaufman, Emil. (See Greenberg, William, assignor.)
Kauth, Nicholas, Los Angeles, Calif., assignor to A. J. Bayer Company. Adjustable guide for sliding doors. 1,684,706; Sept. 18.
Kay, William H., Lynn, Mass. Last-engaging dog for last lathes. 1,684,960; Sept. 18.
Keeler, Earl A. (See Smith, I. B., and Keeler.)

Keller, Karl O., assignor to R. P. Doxford, Sunderland, England. Piston for internal-combustion engines. 1,684,629; Sept. 18.
Kellogg Manufacturing Co. (See Hazard, George E., assignor.)
Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
Kelly, Thomas D., London, England. Aircraft. 1,685,029; Sept. 18.
Kennard, Roy W., Harper, Wash. Milk-bottle carrier. 1,684,995; Sept. 18.
Kenyon, Lewis C. (See Guild, W. J., and Kenyon.)
Keyser, Johann J., Aarau, Switzerland. Spinning shafting. 1,684,919; Sept. 18.
Kharasch, Morris S., College Park, Md., assignor to Eli Lilly and Company, Indianapolis, Ind. Water-soluble organic compound of antimony and producing it. 1,684,920; Sept. 18.
Kinkel, Revere P., Buffalo, N. Y. Treating garbage and the like. 1,684,448; Sept. 18.
Kirts, Owen C., Marion, Ohio. Smoking stand. 1,684,589; Sept. 18.
Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Mobile radial drill. 1,685,072; Sept. 18.
Kleinman, Jacob L., New York, N. Y. Tennis racket. 1,684,449; Sept. 18.
Knapp, James H., assignor to James H. Knapp Company, Los Angeles, Calif. Electric heater. 1,684,450; Sept. 18.
Knapp, James H., Company. (See Knapp, James H., assignor.)
Kochendorfer, Frederic S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Thread-rolling machine. 1,684,799; Sept. 18.
Kolster, Frederick A., and S. A. Sollie, Palo Alto, assignors to Federal Telegraph Company, San Francisco, Calif. Electromagnetic sound reproducer. Re17,086; Sept. 18.
Konell, Fred E., Wagner, Wis. Plow wheel. 1,684,833; Sept. 18.
Koppers Company, The. (See Jones, Irvin H., assignor.)
Kozak, Andrew, Lilly, Pa. Water and carbide can. 1,684,996; Sept. 18.
Kraetsch, Carl H., Des Moines, Iowa. Golf practice apparatus. 1,684,674; Sept. 18.
Kraft, Walter V., Clinton, Ill. Water heater. 1,684,997; Sept. 18.
Kramer, Max L. (See Quick, Frank J., assignor.)
Kranepuhl, Erich. (See Luther M., Pieroh, and Kranepuhl.)
Krueger, Ferdinand H., Milwaukee, Wis. Placer-mining machine. 1,684,869; Sept. 18.
Krume, Elbert C. (See Madison, B. F., and Krume.)
Kuhn, Wilfred H., Detroit, Mich. Steam trap. 1,684,961; Sept. 18.
Kunzi, Andrew E., assignor to Churchill's, Incorporated, Chicago, Ill. Dispensing container. 1,684,495; Sept. 18.
La Hatte, Cicero, Vicksburg, Miss. Merchandise support. 1,684,707; Sept. 18.
Lake Lithograph Company, The. (See Ferguson, J. E., and Mooney, assignors.)
Lamb, Joseph F., and F. W. Schade, New Britain, assignors to Landers, Frary & Clark, Hartford, Conn. Container. 1,684,899; Sept. 18.
Lamb, Leslie J., Oakland, Calif. Artificial leg. 1,684,921; Sept. 18.
Lambert, Albert J., assignor of one-half to The Lambert Heater & Engineering Company Limited, London, England. Liquid-heating device. 1,684,630; Sept. 18.
Lambert Heater & Engineering Company Limited, The. (See Lambert, Albert J., assignor.)
Lamont, Lewis H., Oak Park, Ill. Thermostatically-controlled heating element. 1,684,544; Sept. 18.
Land, Charles H., Detroit, Mich. Hydraulic brake and coupling device for tractor trailers. 1,684,836; Sept. 18.
Landers, Frary & Clark. (See Lamb, J. F., and Schade, assignors.)
Lapinoja, William, Enumclaw, Wash. Brush. 1,684,631; Sept. 18.
La Plant, Edward, Arlee, Mont. Link for antiskid chains. 1,684,632; Sept. 18.
Lappas, Nikitas, Peabody, Mass. Fortune-telling device. 1,684,998; Sept. 18.
Larrabee, Clinton E., Binghamton, assignor to International Time Recording Company of New York, Endicott, N. Y. Multicolored ribbon-control device for time recorders. 1,684,400; Sept. 18.
Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Deaerating apparatus. 1,684,834; Sept. 18.
Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Flow regulator. 1,684,835; Sept. 18.
Larsson, Thure, Worcester, Mass. Segmental grinding wheel. 1,684,770; Sept. 18.
Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Numbering and counting device. 1,684,545; Sept. 18.
Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Carriage-return and normalizing mechanism for card-perforating machines. 1,684,546; Sept. 18.
Laterra, John, and F. Joy, Paterson, N. J. Banjo hand rest. 1,684,962; Sept. 18.
Latham Machinery Company. (See Leschhorn, Ernest, assignor.)
Lautenschlager, William F., Cincinnati, Ohio. Spark intensifier. 1,684,496; Sept. 18.
Lavole, Joseph, assignor to E. H. Frye, trustee, Detroit, Mich. Combined sadiron and heater. 1,685,030; Sept. 18.
Lawlor, Simeon C., Chicago, Ill. Valve. 1,684,837; Sept. 18.
Lawrence, Winthrop S., New York, N. Y. Textile dye. 1,684,401; Sept. 18.
Lawser, Charles W., Bala, assignor to Wicaco Screw & Machine Works, Inc., Philadelphia, Pa. Spinning pump. 1,684,871; Sept. 18.
Leeds & Northrup Company. (See Smith, I. B., and Keeler, assignors.)
Leedy, A. D. (See Harsin, Frank M., assignor.)
Leighton, George A., Roslindale, Mass., assignor to American Can Company, New York, N. Y. Device for removing friction plugs from containers. 1,684,708; Sept. 18.
Lemmon, Alexis W., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Automatic feeder. 1,684,675; Sept. 18.
Lemmon, Rees H. (See Yerkes, J. A., and Lemmon.)
L'Enfant, Charles, New York, N. Y. Cardcase and making same. 1,684,737; Sept. 18.
Leschhorn, Ernest, Chicago, Ill., assignor to Latham Machinery Company. Wireworking device for stitching. 1,684,838; Sept. 18.
Leslie, Eugene H., and E. M. Baker, Ann Arbor, Mich. Treating and fractionating cracking-plant vapors. 1,684,771; Sept. 18.
Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Screw or nut driving device for portable power-driven rotary tools. 1,684,633; Sept. 18.
Levy, Sydney, jr., Suva, Fiji Islands. Medicine-administering device. 1,684,999; Sept. 18.
Lewis, Ernest C., Meriden, assignor to The Tubular Products Company, Southington, Conn. Ash receptacle or similar article. Des. 76,349; Sept. 18.
Lewis, Frank D. (See Widmann, E. A., and Lewis.)
Lewis, Frank D., Denver, Colo. Centrifugal concentrating and amalgamating apparatus of the vertical type. 1,684,870; Sept. 18.
Libbey-Owens Sheet Glass Company, The. (See Ferngren, Enoch T., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Fraser, Frank, assignor.)
Libbey-Owens Sheet Glass Company, The. (See Recce, Joseph A., assignor.)
Lilly, Eli, and Company. (See Kharasch, Morris S., assignor.)
Lima Sheet Metal Products Company. (See Ackerman, Charles L., assignor.)
Lindas, Henry E., Colorado Springs, Colo. Collapsible conduit core. 1,684,497; Sept. 18.
Lindenblad, Nils E., Shoreham, N. Y., assignor to Radio Corporation of America. Intertransposition of sound and electrical energy. 1,685,075; Sept. 18.
Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,684,547; Sept. 18.
Liquid Dispensing Systems, Inc. (See Stedwell, George W., assignor.)
Litle, Thomas J., jr., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerator freezing device. 1,684,590; Sept. 18.
Locke, Albert V., Belmont, Mass. Vehicle alarm. 1,684,591; Sept. 18.
Locke Insulator Corporation. (See Gouverneur, Minor F. H., assignor.)
Locomotive Finished Material Company, The. (See Muchnic, Henry E., assignor.)
Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
Loetscher, Emil C., Dubuque, Iowa. Power clamp. 1,684,548; Sept. 18.
Logue, Charles H., Syracuse, N. Y. Gear-lapping machine. 1,684,872; Sept. 18.
Lord, Erskine D., Cambridge, assignor to McLaurin-Jones Co., Brookfield, Mass. Meltable adhesive. 1,684,873; Sept. 18.
Lorenzi, Luigi, and A. Colombo, San Francisco, Calif. Sole construction for rubber boots. 1,684,676; Sept. 18.
Love, John H., Pawhuska, and K. C. Love, Muskogee, Okla. Bottle. Des. 76,350; Sept. 18.
Love, Kit C. (See Love, John H. and K. C.)
Lowe, Joseph N., New York, N. Y. Hand bag. 1,684,839; Sept. 18.
Lowe Machinery Company, The. (See Lowe, Thomas L., assignor.)
Lowe, Thomas L., Devon, assignor to The Lowe Machinery Company, Bridgeport, Conn. Automatic feeder for laundry machinery. 1,684,451; Sept. 18.
Lowe, Thomas L., Devon, assignor to The Lowe Machinery Company, Bridgeport, Conn. Laundry-distributing apparatus. 1,684,452; Sept. 18.
Löwenstein, Harry F., Washington, D. C. Intermittent thermal switch. 1,684,709; Sept. 18.
Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. 1,684,874; Sept. 18.
Lubin, Joseph I., et al. (See Newmark, Aaron S., assignor.)

Luck, William F., Portland, assignor, by mesne assignments, to F. W. Chausse, Salem, Oreg. Printing press. 1,684,592; Sept. 18.

Lucke, Charles E., New York, N. Y., assignor to The Hoover Company. Refrigerator construction. 1,684,549; Sept. 18.

Luehrs, Daniel M., Cleveland, Ohio. Heater for liquid heat-transmission systems. 1,684,963; Sept. 18.

Lupien, Henry J. (See Gay, Alfred F., assignor.)

Lupton's, David, Sons Company. (See Brogden, Joah, assignor.)

Luther, Martin, K. Pieroh, and E. Kranepuhl, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Catalytic dehydrogenation. 1,684,634; Sept. 18.

Lynn, John P., assignor to Autopoint Products Company, Chicago, Ill. Pencil. 1,684,635; Sept. 18.

Lyons, James, jr., assignor to self and L. H. Schwabacher, trustees, New York, N. Y. Variable condenser. 1,684,964; Sept. 18.

Lyons, Robert L., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Needle guard for sewing machines. 1,684,453; Sept. 18.

Macy, R. H., & Co., Inc. (See Wilmot, Ruth, assignor.)

Madison, Benjamin F., and E. C. Krume, Council Bluffs, Iowa. Feed-water-heating system. 1,684,965; Sept. 18.

Maibay, Raphaël, Paris, France. Apparatus for the carbonization and distillation of wood. 1,684,875; Sept. 18.

Malcolm, Thomas J., Natchez, Miss. Piano-bridle-strap fastener. 1,685,001; Sept. 18.

Mallory, Marion, Toledo, Ohio. Carburetor. 1,684,550; Sept. 18.

Mallory, Marion, Toledo, Ohio. Carburetor. 1,684,840; Sept. 18.

Mammen, Lawrence W., Chicago, Ill. Ornamental light. 1,684,922; Sept. 18.

Manning, Howard H., assignor to McCrosky Tool Corporation, Meadville, Pa. Boring bar. 1,684,772; Sept. 18.

Manning, Sanford E., Smackover, Ark. Cementing apparatus. 1,684,551; Sept. 18.

Marin, Joseph M. I., Jersey City, N. J. Wearing apparel. 1,684,876; Sept. 18.

Marks, Edward S., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Vibration-absorbing element. 1,684,773; Sept. 18.

Marschalk, Charles H., Paris, France. Manufacture of perylene. 1,684,738; Sept. 18.

Marsden, John E., Philadelphia, Pa. Molded-glass receptacle. 1,684,498; Sept. 18.

Marsh, James. (See Aycock, Francis M., assignor.)

Marsh, Jas. P., & Company. (See Rose, Alexander D., assignor.)

Marsh, Joseph R. C., Arlington Heights, assignor to F. N. Bard, Chicago, Ill. Steel and its manufacture. 1,684,841; Sept. 18.

Marshall, Clinton E., Brooklyn, N. Y. Fountain pen. 1,684,402; Sept. 18.

Mason, Warren P., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical testing system and method. 1,684,403; Sept. 18.

Masury, Alfred F., and C. Froesch, assignors to International Motor Company, New York, N. Y. Brake mechanism. 1,684,404; Sept. 18.

Matranga, Vincent J., Elizabeth, N. J. Weatherproof hinge. 1,685,002; Sept. 18.

Maximoff, Juvenal, and M. S. de Costa, née Vincent, Hunlingue, France. Centrifugal liquid crucible. 1,684,800; Sept. 18.

Mayer, Herman, Philadelphia, Pa. Apparatus for softening silk, yarn, and the like. 1,684,923; Sept. 18.

Mayer, William J., Roxborough, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch-mechanism handle. 1,684,499; Sept. 18.

McAbee, Louis U., Oakland, assignor to California Transit Company, Stockton, Calif. Body and chassis construction for motor vehicles. 1,684,677; Sept. 18.

McCord Radiator & Mfg. Co. (See Bailey, Claude B., assignor.)

McCormick, Fred W., Grand Rapids, Mich. Cupboard latch. Des. 76,351; Sept. 18.

McCoy, William C. (See Russon, Harry R., assignor.)

McCrosky Tool Corporation. (See Manning, Howard H., assignor.)

McElrath William W., Louisville, Ky. Bucket for rotary pumps. 1,685,003; Sept 18.

McGowen, William R., McKees Rocks, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Vehicle bumper. Des. 76,352; Sept. 18.

McGowen, William R., McKees Rocks, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Vehicle bumper. Des. 76,353; Sept. 18.

McKee, Garnet W., Rockford, Ill. Apparatus for proportionately mixing fluids. 1,684,500; Sept. 18.

McLaine William L., and W. L. Borough, Los Angeles, Calif. Sealing casing head. 1,684,678; Sept. 18.

McLaurin-Jones Co. (See Lord, Erskine D., assignor.)

McRae, Frederick W., Eagle Rock, assignor to McRae Paint Products, Inc., Los Angeles, Calif. Paint or waterproofing material and producing the same. 1,684,593; Sept. 18.

McRae Paint Products, Inc. (See McRae, Frederick W., assignor.)

McWhirter, John S., Southport, Conn. Journal-bearing construction. 1,684,405; Sept. 18.

Meldrum, Alexander, Syracuse, N. Y. Sectional wheel. 1,684,552; Sept. 18.

Melrose Slipper Co., Inc. (See Keminsky, Rubin, assignor.)

Mendenhall, James H., Nottingham, Pa. Antirattling device for windows. 1,684,636; Sept. 18.

Menking, Ferdinand W. (See Speir, Seaborn J., assignor.)

Mercadante, Joseph. (See Thompson, Alfred M., assignor.)

Methfessel, Carl Sulzbach-on-the-Murr, Germany. Wax-melting apparatus. 1,684,710; Sept. 18.

Mewborne, Robert G., Clarkesville, Tenn. Cleansing nicotine vapors. 1,684,740; Sept. 18.

Midway Railway Equipment Co. (See Wright, William, assignor.)

Milano Furniture Company. (See Heyman, Joseph J., assignor.)

Milewski, Marion, Lebanon, Pa. Game. 1,685,076; Sept. 18.

Miller, Lou E. (See Parker, L., and Miller.)

Miller, Walter B., trustee. (See Bowen, Charles O., assignor.)

Miner, W. H., Inc. (See Geiger, William A., assignor.)

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Miner, W. H., Inc. (See O'Connor, John F., assignor.)

Minton, Le Roy H., Metuchen, N. J. Manufacture of zircon refractories. 1,684,739; Sept. 18.

Mishawaka Rubber & Woolen Manufacturing Company (See Blair, George W., assignor.)

Mislin, Eugen, Prague-Vrsovice, assignor to J. F. Daubek and G. Daubek, Bruence, Czechoslovakia. Increasing the usefulness of fodder and food. 1,685,004; Sept. 18.

Monroe Calculating Machine Company. (See Chase, George C. assignor.)

Montealegre, Hasel M., Iola, Kans. Hair waver. 1,684,774; Sept. 18.

Montgomery, Robert H., executor. (See Braddock, Edward I.)

Mooney, Henry L. (See Ferguson, J. E., and Mooney.)

Moore, Richard S., Snyder, Tex. Cotton chopper. 1,684,711; Sept. 18.

Morgan, David W. R., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Air-ejector apparatus. 1,684,406; Sept. 18.

Morris, Elmer C., Chicago, Ill., assignor, by mesne assignments, to Servo-Paper Corporation. Sanitary dispensing device. 1,684,877; Sept. 18.

Morris, Elmer C., Chicago, Ill., assignor, by mesne assignments, to Servo-Paper Corporation. Folded-sheet object and forming same. 1,684,878; Sept. 18.

Morse, Frank C., assignor to Brown-Morse Company, Muskegon, Mich. Filing drawer. 1,684,842; Sept. 18.

Muchnic, Henry E., assignor to The Locomotive Finished Material Company, Atchison, Kans. Railway highway crossing. 1,684,924; Sept. 18.

Müller, C. H. F., Röntgenröhrenfabrik. (See Daumann, Wilhelm, assignor.)

Müller, Carl E. (See Fischer, E., and Müller.)

Muller, Charles A. (See Whaley, W. B. S., Muller, and Tursky.)

Myers, John T., and J. H. Carroll, West Palm Beach, Fla. Self-service store fixtures for vending merchandise. 1,684,637; Sept. 18.

National Automatic Tool Company, The. (See Galloway, Robert M., assignor.)

National Supply Company of Delaware, The. (See Faulkner, D. S., and Timbs, assignors.)

National Watch & Jewelry Co. (See Ritholz, Benjamin D., assignor.)

Naylor Radio Corporation. (See Sears, Sterling G., assignor.)

Neelmeier, Wilhelm. (See Schweitzer, H., and Neelmeier.)

Neikirk, Walter M., assignor to Southern Textile Machinery Company, Paducah, Ky. Pliers. 1,684,775; Sept. 18.

Nemcovsky, Louis A., assignor, by mesne assignments, to Sun Typewriter Company, New York, N. Y. Typewriting machine. 1,684,801; Sept. 18.

Newcomb, Edward C., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,684,501; Sept 18.

Newman, Henry R., assignor to Boyle Manufacturing Company, Los Angeles, Calif. Apparatus for dispensing lubricating oil. 1,684,879; Sept. 18.

Newmark, Aaron S., Brooklyn, assignor to J. Elsner and J. I. Lubin, New York, N. Y. Window cornice. 1,684,843; Sept. 18.

New York Brick Handling Corporation. (See Fuller, Claud E., assignor.)

Nibbs, Ernest, New London, assignor to Electric Boat Company, Groton, Conn. Internal-combustion engine. 1,684,407; Sept. 18.

Nicolson, Alexander M., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic system. 1,684,408; Sept. 18.

Nilson, Gustaf A., Glencoe, Ill. Shower receptor. 1,684,502; Sept. 18.

Nilson, Gustaf A., Chicago, Ill. Shower receptor. 1,684,503; Sept. 18.

Nishida, Shinkichi, M. Ota, Tokyo, and G. Inose, Takinogawa-machi, near Tokyo, assignor to Goshikaisha Jidosha Kyujoki Seisakusho, Tokyo, Japan. Safety device for motor cars. 1,684,776; Sept 18.

Nitsche, Max P., Dresden, Germany. Production of fertilizers. 1,684,712; Sept. 18.

Nitsch, Charles H., and J. W. Baker, assignors to Stokes and Smith Company, Philadelphia, Pa. Sheet-feeding mechanism. 1,684,741; Sept. 18.

Nixon, Jeddy D., Houston, Tex., assignor to Humble Oil & Refining Company. Power-transmitting apparatus. 1,684,679; Sept 18.

Noland, Barton H., Brooklyn, N. Y. Air-regulating means for liquid-fuel furnaces. 1,685,031; Sept. 18.

Norgren, Carl A., Denver, Colo. Hose clamp. 1,684,713; Sept. 18.

Northrup, Edwin F., Princeton, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa. Submerged-channel induction furnace. 1,684,504; Sept. 18.

Norton, Arthur G., assignor to Alert Products, Inc., Holley, N. Y. Pump. 1,684,880; Sept. 18.

Noyes, Harry W., West Haven, assignor of one-half to A. G. Shields, New Haven, Conn. Vanity case. 1,684,454; Sept. 18.

Nüsslein, Joseph, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Dyeing fibrous materials. 1,684,881; Sept. 18.

Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Multiplex carrier-current signaling. 1,684,455; Sept. 18.

Ochiltree, Ned A., assignor to Concrete Engineering Company, Omaha, Nebr. Fence post. 1,684,802; Sept. 18.

O'Connor, John F., Chicago, Ill., assignor, by mesne assignments to W. H. Miner, Inc. Hand brake for railway cars. 1,684,505; Sept. 18.

O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,684,506; Sept. 18.

O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction roller bearing. 1,684,507; Sept. 18.

O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,684,508; Sept. 18.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Antifriction bearing. 1,684,509; Sept. 18.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,684,510; Sept. 18.

O'Conor, Cornelius C., assignor to Simmons Company, Kenosha, Wis. Metal table. 1,684,966; Sept. 18.

O'Donnell, Thomas E., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-twisting apparatus. 1,684,511; Sept. 18.

Oess, Gustav., Essen, Germany. Construction of tracks of street railways. 1,684,680; Sept. 18.

Ohio Brass Company, The. (See Pipes, Pliny P., assignor.)

Ohio Foundry and Manufacturing Co., The. (See Sharp, William L., assignor.)

Oil City Iron Works. (See Clarke, Clement S., assignor.)

Olinger, Thomas, assignor to Federal Manufacturing Company, Holland, Mich. Furnace register. 1,684,512; Sept. 18.

Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Unitary conduit and switch support for gasoline-serving stations. 1,684,777; Sept. 18.

Olsen, Hans, Alslov, near Karlse, Denmark. Soil-working implement. 1,684,594; Sept. 18.

Olson, Andrew, Cleveland, and L. R. Tufts, East Cleveland, assignors to The Cleveland Folding Machine Company, Cleveland, Ohio. Folding machine. 1,684,803; Sept. 18.

Olson, Nels, Superior, Wis. Heater and draft-governing means therefor. 1,684,844; Sept. 18.

Olund, Nels A., Cambridge, Minn. Automobile heater. 1,684,967; Sept. 18.

O'Neil, Matthew G., Dallas, Tex., assignor, by mesne assignments, to Standard Vending Corporation, Wilmington, Del. Vending machine. 1,684,409; Sept. 18.

O'Neill, John H., Springfield, Mo. Air spring with non-elastic fluid shock absorber. 1,685,077; Sept. 18.

Osann, Frederick, Company. (See Lyons, Robert L., assignor.)

Ostrum, Roy A., and C. E. Frykdahl, assignors to Duluth Show Case Company, Duluth, Minn. Shelving. 1,684,410; Sept. 18.

Ota, Mineru. (See Nishida, S., Ota, and Inose.)

Owens, Freeman H., New York, N. Y. Motion-picture apparatus. 1,684,968; Sept. 18.

Pabst, William E., Anderson, Ind. Counterboring head. 1,684,804; Sept. 18.

Packard Electric Company, The. (See Tuttle, George H., assignor.)

Packard Motor Car Company. (See Cooper, Erwin C., assignor.)

Packard Motor Car Company. (See Woolson, Lionel M., assignor.)

Panunzi, Riziero, Geneva, Ill. Attachment for sinks. 1,684,805; Sept. 18.

Parke, William, New York, N. Y. Oven and broiler rack handling device. 1,684,595; Sept. 18.

Parker, Leroy, Utica, and L. E. Miller, New Hartford, N. Y. Electric water heater for water-coloed internal-combustion engines. 1,684,845; Sept. 18.

Parker, Thomas L., assignor to The Standard Electric Manufacturing Co., Chicago, Ill. Mail box. 1,684,513; Sept. 18.

Parsons, Charles A., Newcastle-on-Tyne, England. Mirror, reflector, and the like. 1,685,032; Sept. 18.

Patch, Harry M., Seattle, Wash. Resilient wheel. 1,684,596; Sept. 18.

Pathe Phonograph & Radio Corporation. (See Widmann, E. A., and Lewis, assignors.)

Pearson, Herman E., Wayzata, Minn. Power-driven skis. 1,684,846; Sept. 18.

Penberthy, Ernest, Redruth, Cornwall, assignor to The Climax Rock Drill & Engineering Works Limited, London, England. Percussive rock drill. 1,684,638; Sept. 18.

Penn Hardware Company. (See Cleaver, George E., assignor.)

Penote, Augustus J., Cleveland, Ohio. Tamping machine. 1,684,882; Sept. 18.

Perlmutter, Henry A., Brooklyn, assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Adjustable base. 1,684,925; Sept. 18.

Perry, Ira D., Chicago, Ill. Swimming apparatus. 1,684,714; Sept. 18.

Petschenig, Karl, Vienna, Austria, assignor to C. P. Goerz Optische Anstalt, Aktiengesellschaft, Akciova Spolecnost K. P. Goerz Opticky Ustav, Bratislava, Czechoslovakia. Breech sight for ordnance and machine guns. 1,684,681; Sept. 18.

Pettis, Clifton D., New York, N. Y. Brake shoe and making the same. 1,684,883; Sept. 18.

Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Prime-mover-controlling means. 1,684,884; Sept. 18.

Phillips, Alfred, Frankfort-on-the-Main, and M. Dabelow, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Mordant azo dyestuffs and preparing them. 1,684,778; Sept. 18.

Phillips, John H., Chicago, Ill. Hammer. 1,684,514; Sept. 18.

Pickett, Roswell C., Warrenville, and H. W. Thompson, assignors to Advertisers Service Bureau, Chicago, Ill. Form-roller control and timing device. 1,685,033; Sept. 18.

Picklesimer, James E., Atlanta, Ga. Lamp attachment for sadirons. 1,684,742; Sept. 18.

Pierce, Edward M., and W. M. Carroll, Dayton, assignors to A. Davis, jr., Cincinnati, Ohio. Predeterminer and indicator. 1,684,926; Sept. 18.

Pierce Renewable Fuses, Inc. (See Clemens, John G., assignor.)

Pierini, Attilio, Springfield, Gardens, N. Y., A. T. Hopkins, Cambridge, and H. M. Haven, Winchester, Mass. Apparatus for drying fur pelts. 1,684,927; Sept. 18.

Pieroh, Kurt. (See Luther, M., Pieroh, and Kranepuhl.)

Pipes, Pliny P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-connecting device. 1,684,885; Sept. 18.

Pitman, Henry L., Westfield, N. J., assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y. Computing machine. 1,684,515; Sept. 18.

Praszkewiz, Frank, Detroit, Mich. Secondary-tractor-propelling device. 1,684,969; Sept. 18.

Prettyman, Hugh W., Inwood, W. Va. Map holder. 1,684,682; Sept. 18.

Prosperity Company, The. (See Davis, Ernest, assignor.)

Pyle-National Company. (See Bush, R. R., and Dake, assignors.)

Quick, Frank J., Arlington, assignor of 40 per cent to M. L. Kramer, Cranston, R. I. Flower holder. 1,685,056; Sept. 18.

Rable, Udege A., Yakima, Wash. Divider. 1,684,886; Sept. 18.

Radio Corporation of America. (See Lindenblad, Nils E., assignor.)

Radke, William J., Marmarth, N. Dak. Speedometer and indicator. 1,684,683; Sept. 18.

Rae, John, Ocean Falls, British Columbia, Canada. Wood-chipping machine. 1,684,411; Sept. 18.

Ramlon, Peter J. (See Hansen, B., and Ramlon.)

Ramsay, Erskine, Birmingham, Ala. Long-wall mining shield. 1,684,597; Sept. 18.

Ratcliffe, John N. (See Watkinson, Frederick J., assignor.)

Raymond, Lambert L., Minneapolis, Minn. Christmas-tree reflector with projections. 1,684,847; Sept. 18.

Read, William C., Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Electrolytic rectifier. 1,684,684; Sept. 18.

Records, Elmer H., Spokane, Wash. Liquid fuel. 1,684,685; Sept. 18.

Records, Elmer H., Spokane, Wash. Aqueous liquid fuel. 1,684,686; Sept. 18.

Reece, Joseph A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Draw pot. 1,684,456; Sept. 18.

Reed, Arthur W., assignor of one-half to W. B. Tanner, Boston, Mass. Motor-vehicle surface sander. 1,684,806; Sept. 18.

Reid, Robert A., David City, Nebr. Bottle or similar article of manufacture. Des. 76,354; Sept. 18.

Reilly, Frank C., New York, N. Y. Brake system. 1,684,743; Sept. 18.

Reiner, Leo A., Detroit, Mich. Radiator-cap-locking device. 1,684,412; Sept. 18.

Remington Rand Inc. (See Lasker, William W., assignor.)

Renle, Gotthilf J., Lehi, N. Dak. Strain equalizer. 1,684,687; Sept. 18.

Republic Box Company, The. (See Trautman, Ernest, assignor.)
Resch, Oskar, Neustadt, near Coburg, Germany. Device for moving the eyes of dolls. 1,685,000; Sept. 18.
Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Spring catch for vanity boxes. 1,684,413; Sept. 18.
Reynolds, John F., Pasadena, Calif. Grass catcher. 1,684,744; Sept. 18.
Reyrolle, A., & Company Limited. (See Coates, Frank, assignor.)
Ricard, Christy, Woonsocket, R. I. Self-threading shuttle. 1,684,780; Sept. 18.
Ricard, Christy, Woonsocket, R. I. Self-threading shuttle. 1,684,781; Sept. 18.
Rice, Harold G., Chicago, Ill. Christmas-tree stand. 1,684,970; Sept. 18.
Rice, Willis B., New York, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Autographic register. 1,684,553; Sept. 18.
Rider, Douglas, assignor to Thermal Industrial and Chemical (T. I. C.) Research Company Limited, London, England. Dehydration and distillation of tars or oils. 1,685,034; Sept. 18.
Ridgway, Lat, Canon, Ga. Pantograph. 1,684,887; Sept. 18.
Riefenstahl, Gustav, Berlin-Treptow, assignor to Deutsche Gold- und Silberscheideanstalt, Frankfort-on-the-Main, Germany. Protective sheath for flexible shafts. 1,684,554; Sept. 18.
Ringler, William A., Philadelphia, Pa., assignor to Globe-Wernicke Company, Cincinnati, Ohio. Visible index-card system. 1,684,807; Sept. 18.
Ritholz, Benjamin D., assignor to National Watch & Jewelry Co., Chicago, Ill. Eye tester. 1,684,555; Sept. 18.
Ritz Woller, Olive C., Chicago, Ill. Automobile step plate. 1,684,613; Sept. 18.
Roach, Finis E., Chicago, Ill. Coupling for conduits. 1,684,516; Sept. 18.
Roberts, Charles W., jr., Nyack, N. Y. Adjustable locking device for valves and the like. 1,684,745; Sept. 18.
Roberts, Jack A. (See Giles, I. F., and Roberts.)
Roberts, Thomas, Haverhill, Mass. Shoe. Des. 76,355; Sept. 18.
Robertson, Douglas, Nuriootpa, South Australia, Australia. Attachment of motor-vehicle road springs. 1,685,005; Sept. 18.
Robertson, William E., Reading, Pa. High-speed transportation system. 1,685,035; Sept. 18.
Rogers, Walter F., Chicago, Ill. Oven door. 1,684,808; Sept. 18.
Rose, Alexander D., assignor to Jas. P. Marsh & Company, Chicago, Ill. Dial. 1,684,598; Sept. 18.
Rosenberg, David H., Medford, Oreg. Fruit-box pad and lining. 1,684,556; Sept. 18.
Rosholt, Thorman W., Company. (See Rosholt, T. W., and Cederstrom, assignors.)
Rosholt, Thorman W., and H. Cederstrom, assignors to Thorman W. Rosholt Company, Minneapolis, Minn. Measuring apparatus for paving machines. 1,684,971; Sept. 18.
Rubinstein, Hans, Vienna, Austria. Manufacture of double carbonate of sodium and magnesium. 1,684,782; Sept. 18.
Rudolph, Wilhelm, and G. Wolff, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Submarine direction finder. 1,684,848; Sept. 18.
Rüggeberg, Carl E., Remscheid, Germany. Device for firmly attaching exchangeable blades to hose, mattocks, or the like. 1,684,849; Sept. 18.
Rundqvist, Thore R. E., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,684,888; Sept. 18.
Russ, Charles L., Little Rock, Ark. Double-acting drawer and slide therefor. 1,684,889; Sept. 18.
Russon, Harry R., Akron, assignor of one-half to W. C. McCoy, Cleveland, Ohio. Variometer dial. 1,684,972; Sept. 18.
Ryan, Daniel J., assignor to The Cleveland Trust Company, Cleveland, Ohio. Mold. 1,684,715; Sept. 18.
Ryan, Walter D., Schenectady, N. Y. Headlight. 1,684,688; Sept. 18.
Ryder, Elmer, Berwyn, Ill. Motor-vehicle heater. 1,684,599; Sept. 18.
Rydquist, Adolph, Rochester, N. Y. Can-opening machine. 1,684,414; Sept. 18.
Sakurai, Sueo. (See Suzuki, T., and Sakurai.)
Salt Production Syndicate Limited, The. (See Zalocostas, Demetrius G., assignor.)
Samson, Henry L., New York, N. Y. Paper-napkin holder. 1,684,517; Sept. 18.
Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse mechanism. 1,684,518; Sept. 18.
Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-pressure gauge. 1,684,639; Sept. 18.
Saunders, Addison T., Akron, Ohio, assignor to A. G. Spalding & Bros., New York, N. Y. Game ball. 1,684,557; Sept. 18.
Schade, Frank W. (See Lamb, J. F., and Schade.)
Schaf, Joseph C., jr., Indianapolis, Ind. Universal holding carriage for test stands and lathes. 1,684,600; Sept. 18.
Scheerbarth, Friedrich W. M. L., Altona-Bahrenfeld, Germany. Apparatus for automatic regulation of different wave-lengths for wireless receivers. 1,684,519; Sept. 18.
Schimek, Joseph F., Worcester, assignor, by mesne assignments, to Whitin Machine Works, Whitinsville, Mass. Method of and apparatus for transferring carded material. 1,684,890; Sept. 18.
Schlage Lock Company. (See Huffman, Louis, assignor.)
Schmidt, Otto, K. Seydel, and A. Feller, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purifying organic compounds containing oxygen. 1,684,640; Sept. 18.
Schriver, Flavius R., Wilkinsburg Borough, Pa. Container closure. 1,684,415; Sept. 18.
Schroeder, Anthony, assignor of one-half to J. M. Finney, Cleveland, Ohio. Metal container. 1,684,891; Sept. 18.
Schultz, Fred M., Detroit, Mich. Automatic safety latch. 1,685,057; Sept. 18.
Schultz, George W., Bowers, Pa. Engine exhaust. 1,685,006; Sept. 18.
Schwabacher, Leo H., et al., trustees. (See Lyons, James, jr., assignor.)
Schwartz, William, St. Louis, Mo. Skylight. 1,684,641; Sept. 18.
Schwarz, Emil P., St. Paul, Minn., assignor to Seeger Refrigerator Company. Removable drain pan for refrigerators. 1,684,558; Sept. 18.
Schweitzer, Edmund O., Chicago, Ill. Lighting fixture. 1,684,416; Sept. 18.
Schweitzer, Hugo, Wiesdorf, near Cologne, and W. Neelmeier, Leverkusen, near Cologne, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Aminodiarylsulphonpyrazolone azodyestuffs. 1,685,071; Sept. 18.
Schweyer, Daniel H., Easton, Pa. Air-brake apparatus. 1,684,559; Sept. 18.
Schwindenhammer, Albert, Peoria, Ill. Wire reel. 1,685,007; Sept. 18.
Scofield, Theodore J. (See Sparks, W., Scofield, Johnson, and Billig.)
Scott, Harry T., Los Angeles, Calif. Rear-sight mirror. 1,684,560; Sept. 18.
Scovill Manufacturing Company. (See Reutter, Philip A., assignor.)
Seaholm, Ernest W., and H. J. Earl, assignors to General Motors Corporation, Detroit, Mich. Radiator shell. Des. 76,356; Sept. 18.
Sears, Sterling G., Brooklyn, assignor, by mesne assignments, to Naylor Radio Corporation, New York, N. Y. Contact-protecting means for vacuum tubes. 1,684,973; Sept. 18.
Seeger, Gustave R. (See Seeger, Walter G. and G. R.)
Seeger Refrigerator Company. (See Schwarz, Emil P., assignor.)
Seeger Refrigerator Company. (See Seeger, Walter and G. R., assignors.)
Seeger Refrigerator Company. (See Swedman, Enoch, assignor.)
Seeger, Walter G. and G. R., St. Paul, Minn., assignors to Seeger Refrigerator Company. Refrigerator. 1,684,716; Sept. 18.
Servo-Paper Corporation. (See Morris, Elmer C., assignor.)
Seydel, Karl. (See Schmidt, O., Seydel, and Feller.)
Shaffer, Ernest J., Tulsa, Okla. Spider for sucker rods and the like. 1,684,974; Sept. 18.
Sharp, John E., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Applying closure caps to containers. 1,684,892; Sept. 18.
Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas burner. 1,684,457; Sept. 18.
Shelton, William G., St. Louis, Mo. Hair-waving equipment. 1,684,642; Sept. 18.
Shepard, Oscar F., Cincinnati, Ohio. Chain transmission for elevator devices. 1,684,520; Sept. 18.
Sherbino, Morton R., Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Nonexpansible hose. 1,684,717; Sept. 18.
Sherbino, Morton R., Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Making nonexpansible hose. 1,684,718; Sept. 18.
Shields, A. Graham. (See Noyes, Harry W., assignor.)
Shoemaker, Bernard M., Jamaica, assignor to William Demuth & Company, New York, N. Y. Pen stand. Des. 76,357; Sept. 18.
Shonnard, Harold W., Upper Montclair, N. J., assignor to Elevator Supplies Company. Elevator door. 1,684,719; Sept. 18.
Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Door opening and closing means. 1,684,893; Sept. 18.
Shpater, David, Brooklyn, N. Y. Fan attachment for sewing machines. 1,684,601; Sept. 18.
Signal Gesellschaft mit beschränkter Haftung. (See Rudolph, W., and Wolff, assignors.)
Silberman, Harry A., Jersey City, N. J. Dentist's kit and instrument support. 1,684,417; Sept. 18.
Simmons Company. (See O'Conor, Cornelius C., assignor.)
Simmons Glare Shield Company. (See Simmons, William A., assignor.)
Simmons, William A., assignor to Simmons Glare Shield Company, Eldon, Mo. Glare shade. 1,684,418; Sept. 18.

Simon, William J., Brooklyn, assignor to L. D. Bloch & Company, New York, N. Y. Handle for a smoking table. Des. 76,358; Sept. 18.
Simonds-Dayton, A. A., Company, The. (See Simonds, Herbert R., assignor.)
Simonds, Herbert R., assignor to The A. A. Simonds-Dayton Company, Dayton, Ohio. Roll for beating engines. 1,684,521; Sept. 18.
Simpson, Robert M., jr., Chicago, Ill. Odometer. 1,684,928; Sept. 18.
Skinner Automotive Device Co. (See Woodward, Arthur A., assignor.)
Skinner, Stephen G., Los Angeles, Calif., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,684,850; Sept. 18.
Slepian, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Sound-generating device. 1,684,975; Sept. 18.
Slick, Edwin E., Pittsburgh, Pa. Making cold-rolled articles. 1,684,643; Sept. 18.
Sloan, John F., Peoria, Ill. Thermal-cut-out construction. 1,684,522; Sept. 18.
Smiley, Samuel, jr., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Post anchor. 1,684,894; Sept. 18.
Smith, Andrew W., Des Moines, Iowa. Toilet-powder applicator. 1,684,644; Sept. 18.
Smith, Archibald G., Buffalo, N. Y. Partition for containers. 1,684,458; Sept. 18.
Smith, Benjamin H., Swissvale, A. L. Atherton, and E. H. Greibach, Pittsburgh, Pa. Toy transformer. 1,684,746; Sept. 18.
Smith, Irving B., Ambler, and E. A. Keeler, Norristown, assignors to Leeds & Northup Company, Philadelphia, Pa. Ion concentration control. 1,684,645; Sept. 18.
Smotzer, Michael C., Coshocton, Ohio, and J. A. Byers, assignors to James B. Clow & Sons, Chicago, Ill. Centrifugal casting machine and method of casting. 1,684,419; Sept. 18.
Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Magnetic apparatus. 1,684,929; Sept. 18.
Snavely, Frank B., Santa Monica, Calif. Weather strip. 1,684,646; Sept. 18.
Snyder, Garlen I., Indianapolis, Ind. Paper holding and advancing mechanism. 1,684,689; Sept. 18.
Sollie, Sigurd A. (See Kolster, F. A., and Sollie.)
Sonner, Philip J., Winfield, Kans. Gas burner. 1,684,647; Sept. 18.
Souther, Benjamin L., Pittsburgh, and W. A. Gruse, Wilkinsburg, assignors to Gulf Refining Company, Pittsburgh, Pa. Treating slack wax. 1,685,008; Sept. 18.
Souther, Benjamin L., Pittsburgh, and W. A. Gruse, Wilkinsburg, assignors to Gulf Refining Company, Pittsburgh, Pa. Treating slack wax. 1,685,058; Sept. 18.
Southern Textile Machinery Company. (See Neikirk, Walter M., assignor.)
Spalding, A. G., & Bros. (See Saunders, Addison T., assignor.)
Sparks, William, T. J. Scofield, L. E. Johnson, and F. W. Billig, assignors to the Sparks-Withington Company, Jackson, Mich. Signaling device. 1,684,895; Sept. 18.
Sparks-Withington Company The. (See Billig, Fred W., assignor.)
Sparks-Withington Company, The. (See Sparks, W., Scofield, Johnson, and Billig, assignors.)
Spear, Roy, Titusville, Fla. Ear ornament. 1,684,783; Sept. 18.
Speir, Seaborn J., Austin, assignor of one-half to F. W. Menking, Fayetteville, Tex. Wire clamp and insulator holder. 1,685,009; Sept. 18.
Sperry Development Company. (See Sperry, Elmer A., assignor.)
Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Cooling means for internal-combustion engines. 1,684,809; Sept. 18.
Sperry Gyroscope Company, The. (See Bassett, Preston R., assignor.)
Spilman, Oliver P., Houston, Tex. Tension and physiotherapy table. 1,684,459; Sept. 18.
Spitzer, Alexander, Brooklyn N. Y. Toy game device. 1,684,602; Sept. 18.
Sprinkle, Lake H., Brooklyn, N. Y. Artificial tooth. 1,685,523; Sept. 18.
Stanczyk, Stanley, Lynn, Mass. Torch. 1,684,524; Sept. 18.
Standard Electric Manufacturing Co., The. (See Parker, Thomas L., assignor.)
Standard Oil Company of California. (See Cullen, F. J., Binder, and Harshman, assignors.)
Standard Oil Company of California. (See Halloran, Ralph A., assignor.)
Standard Vending Corporation. (See O'Neil, Matthew G., assignor.)
Stebler, Fred, Riverside, Calif. Fruit scrubber. 1,684,896; Sept. 18.
Stedwell, George W., Brooklyn, N. Y., assignor to Liquid Dispensing Systems, Inc. Liquid-delivery system. 1,685,036; Sept. 18.
Steger, Alex., Vining, Minn. Antiglare shield for vehicles. 1,684,690; Sept. 18.
Steinmüller, Firma L. & C. (See Steinmüller, Lebrecht, assignor.)
Steinmüller, Lebrecht, Gummersbach, assignor to Firma L. & C. Steinmüller, Gummersbach, Rheinland, Germany. Water-tube boiler. 1,684,691; Sept. 18.
Stennard, Dorothy, Palo Alto, Calif. Doll. Des. 76,359; Sept. 18.
Stephenson, Henry L., Buffalo, N. Y. Valve. 1,684,603; Sept. 18.
Stickley, Leopold, and G. I. Taylor, Syracuse, assignors to Stickley Manufacturing Company, Eastwood, N. Y. Convertible bed. 1,684,851; Sept. 18.
Stickley Manufacturing Company. (See Stickley, L., and Taylor, assignors.)
Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Feed mechanism. 1,684,747; Sept. 18.
Stimpson, Edwin B., Company. (See Stimpson, Edwin B., assignor.)
Stinson, Richard, Gardner, assignor to Heywood-Wakefield Company, Boston, Mass. Baby carriage. 1,684,930; Sept. 18.
Stock Motorpflug Aktiengesellschaft. (See Jereczek, Viktor, assignor.)
Stoessel, Loretta, Ottumwa, Iowa. Cushion covering for mop handles. 1,684,604; Sept. 18.
Stokes and Smith Company. (See Nitsch, C. H., and Baker, assignors.)
Strasmich, Ethel. (See Bass, Archie E., assignor.)
Stratford, Herbert R., assignor to The Stratmore Company, Cleveland, Ohio. Surfacing disk. 1,684,748; Sept. 18.
Stratmore Company, The. (See Stratford, Herbert R., assignor.)
Studebaker Corporation, The. (See Link, Vincent, assignor.)
Studebaker Corporation, The. (See Newcomb, Edward C., assignor.)
Sullivan, Charles T., Cassody, Kans. Corn binder. 1,684,561; Sept. 18.
Sullivan Machinery Company. (See Cartlidge, Frank, assignor.)
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Rundqvist, Thore R. E., assignor.)
Sun Typewriter Company. (See Nemcovsky, Louis A., assignor.)
Sutherland, William T., Chicago, Ill. Tire cover. 1,684,420; Sept. 18.
Suzuki, Tsuneo, and S. Sakurai, assignors to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Producing a new acid and its salts strongly absorbing ultra-violet rays. 1,684,562; Sept. 18.
Swedman, Enoch, St. Paul, Minn., assignor to Seeger Refrigerator Company. Refrigerator. 1,684,563; Sept. 18.
Syracuse Industrial Gas Co. (See Henderson, Nelson H., assignor.)
Tabulating Machine Company, The. (See Ford, Eugene A., assignor.)
Tagliabue, Charles J., Mfg. Co. (See Bast, Frank J., assignor.)
Tait, John, Port Chalmers, New Zealand. Steam generator and the like. 1,684,976; Sept. 18.
Tanner, Walter B. (See Reed, Arthur W., assignor.)
Taylor, Edward M. (See Heald, R. A., Highberg, and Taylor.)
Taylor, Grant I. (See Stickley, L., and Taylor.)
Techmer, Ewald F., Chicago, Ill. Building construction. 1,684,605; Sept. 18.
Teich, Maurice, Peekskill, N. Y. Device for inspecting tires. 1,685,038; Sept. 18.
Tennhardt, Elsa, New York, N. Y., assignor to E. & J. Bass, Inc. Mirror back or similar article. Des. 76,360; Sept. 18.
Tennhardt, Elsa, New York, N. Y., assignor to E. & J. Bass, Inc. Mirror back or similar article. Des. 76,361; Sept. 18.
Tennhardt, Elsa, New York, N. Y., assignor to Alfred Vester Sons Inc., Providence, R. I. Cigar lighter. Des. 76,362; Sept. 18.
Tennhardt, Elsa, New York, N. Y., assignor to Alfred Vester Sons Inc., Providence, R. I. Cigar lighter. Des. 76,363; Sept. 18.
Theobalds, Reginald O. P., St. Mary Bourne, near Andover, England. Domestic fireplace. 1,684,749; Sept. 18.
Thermal Industrial and Chemical (T. I. C.) Research Company Limited. (See Rider, Douglas, assignor.)
Thielen, Edward A., Dorrance, Kans. Hoist. 1,684,606; Sept. 18.
Thielen, Edward A., Dorrance, Kans. Hoist. 1,684,607; Sept. 18.
Thomas, Alfred J., Braintree, Mass., assignor, by mesne assignments, to B. W. Freeman, Cincinnati, Ohio. Die press. Re17,085; Sept. 18.
Thomasson, Charles H., Richmond, Va. Heater. 1,684,750; Sept. 18.
Thompson, Harry W. (See Pickett, R. C., and Thompson.)
Thompson, Ross C., Englewood, Colo. Mop. 1,684,460; Sept. 18.
Thompson, Willis D., assignor of one-fourth to C. H. Crawford, Spokane, Wash. Incasing edibles and incased edibles. 1,684,421; Sept. 18.
Thomson, Alfred M., Newark, N. J., assignor to J. Mercadante, New York, N. Y. Refrigerating apparatus. 1,684,810; Sept. 18.

Thornton, John E., West Hampstead, London, England. Spool case for cameras and for cinematograph and similar projection apparatus. 1,685,010; Sept. 18.
Thumann, Henry F., Redfield, Ark. Roost. 1,684,608; Sept. 18.
Thurston, Herman B., Cleveland Heights, Ohio. Low-water alarm. 1,684,897; Sept. 18.
Timbs, Edward. (See Faulkner, D. S., and Timbs.)
Tingberg, Anders, Skien, Norway. Hair-undulating tongs. 1,684,648; Sept. 18.
Tocchio, Michele, Hammersmith, London, England. Kettle and the like. 1,684,811; Sept. 18.
Tolman, Edgar B., jr., Chicago, Ill. Conveying apparatus. 1,684,649; Sept. 18.
Tomarin, Marcus, Chicago, Ill. Forming cement blocks. 1,684,525; Sept. 18.
Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Monitoring and controlling circuits for program distribution. 1,684,422; Sept. 18.
Toppe, Friedrich W. H., Schwartau, near Lubeck, Germany. Weel made of netting. 1,684,564; Sept. 18.
Tost, Charles R., Centerdale, assignor to The Hadley Company, Providence, R. I. Link strap. 1,684,977; Sept. 18.
Trautman, Ernest, Lakewood, assignor to The Republic Box Company, Cleveland, Ohio. Bottle crate. 1,684,898; Sept. 18.
Trico Products Corporation. (See Skinner, Stephen G., assignor.)
Tubular Products Company, The. (See Lewis, Ernest C., assignor.)
Tucker, Emmitt M. (See Tucker, Jesse D. and E. M.)
Tucker, Jesse D. and E. M., Sacramento, Calif. Shim drift. 1,684,526; Sept. 18.
Tufts, Lesley R. (See Olson, A., and Tufts.)
Tugeddhat, Robert G., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Baking apparatus. 1,684,751; Sept. 18.
Turner, Griffin P., and H. U. Huff, Chattanooga, Tenn. Booster plate for automobile radiator ornament or similar articles. Des. 76,364; Sept. 18.
Tursky, Charles M. (See Whaley, W. B. S., Muller, and Tursky.)
Tuttle, George H., assignor to The Packard Electric Company, Warren, Ohio. Tap changer. 1,684,650; Sept. 18.
Tweedie, Charles, Jefferson City, Mo. Overgaiter. 1,684,812; Sept. 18.
U. S. Tool Company. (See Woods, Walter T., assignor.)
Underwood Elliott Fisher Company, The. (See Dobson, William A., assignor.)
Union Draft Gear Company. (See Cotton, Walter H., assignor.)
Union Special Machine Company. (See Willis, Harry L., assignor.)
Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)
United Engineering and Foundry Company. (See Biggert, Florence C., jr., assignor.)
United Engineering & Foundry Company. (See Johnson, Lane, assignor.)
United Shoe Machinery Corporation. (See Goddu, George, assignor.)
United States Chain & Forging Company. (See McGowen, William R., assignor.)
Urban, Joseph P., assignor to Detroit Concrete Receptacle Company, Detroit, Mich. Mold. 1,684,978; Sept. 18.
Valentour, August, McDonald, Pa. Acetylene-gas generator. 1,684,979; Sept. 18.
Valley Electric Company. (See Ballman, Edwin C., assignor.)
Valley Electric Company. (See Bullivant, Francis J., assignor.)
Van Bloem, Paul S., Great Neck, assignor to Viking Products Corporation, New York, N. Y. Elevator signal panel. Des. 76,365; Sept. 18.
Van Derbeck, Stephen G., Hackensack, N. J. Windshield wiper. 1,685,037; Sept. 18.
Van Deventer, Harry R., assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical device. 1,684,461; Sept. 18.
Vellasaropulos, John, executor. (See Zalocostas, Demetrius G.)
Verona Tool Works. (See Endsley, Louis E., assignor.)
Vester, Alfred Sons, Inc. (See Tennhardt, Elsa, assignor.)
Viking Products Corporation. (See Van Bloem, Paul S., assignor.)
Voorhees, Gardner T., Boston, Mass. Process and apparatus for refrigeration. 1,684,423; Sept. 18.
Vortex Mfg. Co., The. (See Barbieri, Cesare, assignor.)
Wagner, Lawson L., Baltimore, Md. Automobile headlight. 1,684,720; Sept. 18.
Waldorf Paper Products Company. (See Boeye, Paul F., assignor.)
Walker, William D., Sacramento, Calif. Set of dice. 1,684,609; Sept. 18.
Waller, Colby C., New York, N. Y. Coated metallic articles such as stereotypic plates and producing same. 1,684,565; Sept. 18.
Walper, Curry O., Detroit, Mich. Wall-board reenforcement. 1,684,899; Sept. 18.
Ward, John P., Cleveland, and R. E. Hyde, Cleveland Heights, assignors of one-third to H. J. Green, Cleveland, Ohio. Car-door lock. 1,684,980; Sept. 18.
Ward, Willis C., Orchard Lake, Mich. Game. 1,684,813; Sept. 18.
Ware Radio, Inc. (See Blatterman, Albert S., assignor.)
Warner, Frank E., Seattle, Wash. Folding box. 1,684,931; Sept. 18.
Waters, Charles B., Montclair, N. J. Automobile circulation and heating system. 1,684,900; Sept. 18.
Watkinson, Frederick J., assignor of one-half to J. N. Ratcliffe, Strathroy, Ontario, Canada. Door fastener. 1,684,814; Sept. 18.
Wayman, Charles A. G., and A. F. Gartz, jr., assignors to Crane Co., Chicago, Ill. Valve. 1,684,651; Sept. 18.
Weatherhead, Albert J., jr., Cleveland, Ohio. Uniting metal parts together. 1,684,932; Sept. 18.
Webking, Roy F. M., Bondi, near Sydney, New South Wales, Australia. Liquid-measuring apparatus. 1,684,785; Sept. 18.
Weightograph Company, The. (See Hamblin, Fred B., assignor.)
Weir, Lela B., Los Angeles, Calif. Adjustable hat lining. 1,684,610; Sept. 18.
Weller, Charles J., Coulee, Wash. Wire clamp. 1,684,784; Sept. 18.
Wells, William F., Chicago, Ill. Bone saw. 1,684,815; Sept. 18.
Werby, A. Benjamin, Newton, assignor to American Automotive Corporation, Boston, Mass. Electrolyte for storage batteries. 1,684,852; Sept. 18.
Western Electric Company. (See Bouvier, George A., assignor.)
Western Electric Company. (See Hubbard, Francis A., assignor.)
Western Electric Company. (See Kochendorfer, Frederic S., assignor.)
Western Electric Company. (See Mason, Warren P., assignor.)
Western Electric Company. (See Nicolson, Alexander M., assignor.)
Western Electric Company. (See O'Donnell, Thomas E., assignor.)
Western Supplies Co. (See Woodworth, Roy V., assignor.)
Westinghouse Electric & Manufacturing Company. (See Morgan, David W. R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sandin, Maurits J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Whaley Engine Patents, Inc. (See Whaley, W. B. S., Muller, and Tursky, assignors.)
Whaley, William B. S., New York, C. A. Muller, Brooklyn, and C. M. Tursky, assignors of two-thirds to Whaley Engine Patents, Inc., New York, N. Y., and one-third to said Muller. Valve mechanism. 1,684,424; Sept. 18.
Wheeler, Wellington B., El Segundo, Calif. Semirigid airship. 1,684,425; Sept. 18.
White, Edward A., Lewiston, Idaho. Motion storage apparatus. 1,684,853; Sept. 18.
White, Harold E., Anniston, assignor to Federal Abrasives Company, Birmingham, Ala. Electric furnace for producing silicon carbide. 1,684,611; Sept. 18.
White, John W., Detroit, Mich. Axle and bearing therefor. 1,684,652; Sept. 18.
White, Paul H., Indianapolis, Ind. Cotton picker. 1,684,981; Sept. 18.
Whitin Machine Works. (See Schimek, Joseph F., assignor.)
Wicaco Screw & Machine Works, Inc. (See Lawser, Charles W., assignor.)
Widmann, Eugene A., Brooklyn, N. Y., and F. D. Lewis, West Orange, N. J., assignors, by mesne assignments, to Pathe Phonograph & Radio Corporation, Radio attachment for talking machines. 1,684,933; Sept. 18.
Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
Wiles, Everett R., Barnsdall, Okla. Treating petroleum products. 1,684,426; Sept. 18.
Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Blowing device. 1,684,752; Sept. 18.
Willett, Benedict E., Dayton, Ohio. Foldable table. 1,684,653; Sept. 18.
Willis, Harry L., assignor to Union Special Machine Company, Chicago, Ill. Thread cutter for sewing machines. 1,684,612; Sept. 18.
Wilmot, Ruth, assignor to R. H. Macy & Co., Inc., New York, N. Y., Box-wrapping paper. Des. 76,366; Sept. 18.
Winkler, Moses H., Meridian, Miss. Ten-yard line. 1,684,566; Sept. 18.
Wireless Specialty Apparatus Company. (See Hoyt, Reginald H., assignor.)
Wolff, Gustav. (See Rudolph, W., and Wolff.)
Wood, Andrew T., San Francisco, Calif. Clothespin. 1,684,721; Sept. 18.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Folder. 1,684,901; Sept. 18.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, Rodney J., Dayton, Ohio. Filing cabinet. 1,685,011; Sept. 18.

Woodcraft Company, The. (See Allemeier, Henry, assignor.)
Woods, Walter T., assignor to U. S. Tool Company, Long Beach, Calif. Mounting for cutters of rotary well-drilling disk bits. 1,684,462; Sept. 18.
Woodward, Arthur A., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Lubrication of single-sleeve engines. 1,684,463; Sept. 18.
Woodward, Kenneth N., trustee. (See Bobbs, Arthur L., assignor.)
Woodworth, Roy V., assignor to Western Supplies Co., St. Louis, Mo. Cutting die. 1,684,984; Sept. 18.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Mixture-forming means for internal-combustion engines. 1,684,902; Sept. 18.
Wragg, Charles A., assignor of one-half to L. H. Crook, Washington, D. C. Propeller. 1,684,567; Sept. 18.
Wright, William, assignor to Midway Railway Equipment Co., Chicago, Ill. Pipe-hanger anchor and the like. 1,685,039; Sept. 18.
Yager, Harvey J., Seattle, Wash. Collapsible and portable core form. 1,685,012; Sept. 18.
Yates-American Machine Company. (See Young, Earl R., assignor.)
Yerkes, John A., and R. H. Lemmon, Long Beach, Calif. Valve-seat-grinding machine. 1,684,854; Sept. 18.
Yosgatt, Apcar, Hoboken, N. J. Sole clamp. 1,684,427; Sept. 18.
Young, Arthur L., Providence, R. I. Blank-bending machine. 1,684,903; Sept. 18.
Young, Earl R., assignor to Yates-American Machine Company, Beloit, Wis. Sanding machine. 1,684,464; Sept. 18.
Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 1,684,722; Sept. 18.
Zaidan Hojin Rikagaku Kenkyujo. (See Suzuki, T., and Sakural, assignors.)
Zalocostas, Andrianne, executrix. (See Zalocostas, Demetrius G.)
Zalocostas, Demetrius G., deceased, by A. Zalocostas, Bondi, near Sydney, executrix, and J. Velissaropulos, Belleview Hill, near Sydney, executor, assignors to The Salt Production Syndicate Limited, Sydney, New South Wales, Australia. Extraction of salts from aqueous solutions. 1,684,935; Sept. 18.
Zareko, Walter, Natural Bridge, N. Y. Merchandise-display device. 1,684,753; Sept. 18.
Zbinden, Ernst, assignor to Hasler A.-G. vormals Telegraphenwerkstatte von G. Hasler, Bern, Switzerland. Lubricating apparatus for flanged wheels. 1,685,040; Sept. 18.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF SEPTEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acetylene-gas generator. A. Valentour. 1,684,979; Sept. 18.
Acid and its salts strongly absorbing ultra-violet rays, Producing a new. T. Suzuki and S. Sakurai. 1,684,562; Sept. 18.
Acoustic system. A. M. Nicolson. 1,684,408; Sept. 18.
Adhesive, Meltable. E. D. Lord. 1,684,873; Sept. 18.
Advertising device. H. L. Campbell. 1,684,534; Sept. 18.
Agricultural machine. J. A. Dirschauer. 1,684,861; Sept. 18.
Air-brake apparatus. D. H. Schweyer. 1,684,559; Sept. 18.
Aircraft. A. A. Anderson. 1,685,014; Sept. 18.
Aircraft. T. D. Kelly. 1,685,029; Sept. 18.
Air-ejector apparatus. D. W. R. Morgan. 1,684,406; Sept. 18.
Air heater. H. Baetz. 1,684,380; Sept. 18.
Air-regulating means for liquid-fuel furnaces. B. H. Noland. 1,685,031; Sept. 18.
Airship, Dirigible. R. P. Fox. 1,684,730; Sept. 18.
Airship, Semirigid. W. B. Wheeler. 1,684,425; Sept. 18.
Airspring with nonelastic fluid shock absorber. J. H. O'Neill. 1,685,077; Sept. 18.
Alarm: *See*—
Automobile alarm. Vehicle alarm.
Low-water alarm.
Alloy and making the same. A. L. Feild. 1,684,696; Sept. 18.
Aminodiarylsulphonpyrazolone azodyestuffs. H. Schweitzer. 1,685,071; Sept. 18.
Amusement device. A. B. Dewes. 1,684,535; Sept. 18.
Anchor and the like, Pipe-hanger. W. Wright. 1,685,039; Sept. 18.
Anchor, Post. S. Smiley, jr. 1,684,894; Sept. 18.
Animal trap. A. H. Gilkey. 1,684,484; Sept. 18.
Animal trap. F. G. Johnson. 1,685,028; Sept. 18.
Antirattling device for automobile doors. J. L. Day and E. L. Deschler. 1,684,662; Sept. 18.
Antirattling device for windows. J. H. Mendenhall. 1,684,636; Sept. 18.
Antiskid chains, Link for. E. La Plant. 1,684,632; Sept. 18.
Apparel, Wearing. J. M. I. Marin. 1,684,876; Sept. 18.
Article-forming device. R. Beardsley. 1,684,466; Sept. 18.
Ash receptacle or similar article. E. C. Lewis. Des. 76,349; Sept. 18.
Atomizer for liquids. F. Haeusser and R. Bestehorn. 1,684,488; Sept. 18.
Autographic register. W. B. Rice. 1,684,553; Sept. 18.
Automobile alarm. H. L. Honohan. 1,685,073; Sept. 18.
Automobile heater. N. A. Olund. 1,684,967; Sept. 18.
Axle and bearing therefor. J. W. White. 1,684,652; Sept. 18.
Back-space mechanism. J. H. Barr. 1,684,428; Sept. 18.
Bag: *See*—
Hand bag.
Bag closure. A. B. Fishwick. 1,684,793; Sept. 18.
Baking apparatus. R. G. Tugendhat. 1,684,751; Sept. 18.
Ball: *See*—
Game ball.
Banjo hand rest. J. and F. J. Laterra. 1,684,962; Sept. 18.
Bar: *See*—
Boring bar. Universal bar.
Base, Adjustable. H. A. Perlmutter. 1,684,925; Sept. 18.
Battery package, Dry-. H. R. C. Anthony. 1,684,856; Sept. 18.
Battery terminal and cable clamp. S. R. Garner, sr. 1,684,985; Sept. 18.
Bearing, Antifriction. J. F. O'Connor. 1,684,506; Sept. 18.
Bearing, Antifriction. J. F. O'Connor. 1,684,508–9; Sept. 18.
Bearing, Antifriction roller. J. F. O'Connor. 1,684,507; Sept. 18.
Bearing construction for float-arm shafts. J. Elge. 1,685,046; Sept. 18.
Bearing construction, Journal-. J. S. McWhirter. 1,684,405; Sept. 18.
Bearing structure and making same, Self-aligning. C. Claus. 1,684,984; Sept. 18.
Bearing with fluid friction, Thrust. G. K. Böhm. 1,684,693; Sept. 18.
Beating engines, Roll for. H. R. Simonds. 1,684,521; Sept 18.
Bed, Convertible. L. Stickley and G. I. Taylor. 1,684,851; Sept. 18.
Bell, Horn. E J. Gulick. 1,684,392; Sept. 18.
Binder, Corn. C. T. Sullivan. 1,684,561; Sept. 18.
Bisulphite liquor, Apparatus for making. J. D. Jenssen. 1,684,494; Sept. 18.
Blades to hoes, mattocks, or the like, Device for firmly attaching exchangeable. C. E. Rüggeberg. 1,684,849; Sept. 18.
Blank-bending machine. A. L. Young. 1,684,903; Sept. 18.
Blowing device. R. H. Wilhelm. 1,684,752; Sept. 18.
Board: *See*—
Ironing board.
Boats, Retractable float for flying. V. J. Burnelli 1,684,818; Sept. 18.
Body and chassis construction for motor vehicles. L. U. McAbee. 1,684,677; Sept. 18.
Boiler: *See*—
Water-tube boiler.
Booster plate for automobile radiator ornament or similar articles. G. P. Turner and H. U. Huff. Des. 76,364; Sept. 18.
Boring bar. H. H. Manning. 1,684,772; Sept. 18.
Bottle. J. H. Love. Des. 76,350; Sept. 18.
Bottle or similar article of manufacture. R. A. Reid. Des. 76,354; Sept. 18.
Bottle-washing apparatus. I. R. Hippenmeyer. 1,684,827; Sept. 18.
Box: *See*—
Folding box. Mail box.
Brace: *See*—
Chair-leg brace.
Bracket carrier for windshield deflectors. B. and H. Jassen. 1,684,493; Sept. 18.
Bracket for railway signals, Supporting. E. A. Everett. 1,684,953; Sept. 18.
Brake. V. Link. 1,684,547; Sept. 18.
Brake. E. C. Newcomb. 1,684,501; Sept. 18.
Brake and tractor device for tractor trailers, Hydraulic. C. H. Land. 1,684,836; Sept. 18.
Brake for railway cars, Hand. J. F. O'Connor. 1,684,505; Sept. 18.
Brake mechanism. A. F. Masury. 1,684,404; Sept. 18.
Brake pressure gauge. R. S. Sanford. 1,684,639; Sept. 18.
Brake shoe and making the same. C. D. Pettis. 1,684,883; Sept. 18.
Brake system. F. C. Reilly. 1,684,743; Sept. 18.
Breathing apparatus, Self-contained. A. B. Dräger. 1,684,664; Sept. 18.
Breech sight for ordnance and machine guns. K. Petschenig. 1,684,681; Sept. 18.
Brush. L. F. Exley. 1,684,481; Sept. 18.
Brush. W. Lapinoja. 1,684,631; Sept. 18.
Brush structure. J. M. Acheson. 1,684,855; Sept. 18.
Bucket for rotary pumps. W. W. McElrath. 1,685,003; Sept. 18.
Buckle. H. P. Baltzer. 1,684,786; Sept. 18.
Building construction. A. L. Bobbs. 1,684,387; Sept. 18.
Building construction. E. F. Techmer. 1,684,605; Sept. 18.
Building monolithic concrete underground structures. H. B. Arden. 1,684,816; Sept. 18.
Bumper, Vehicle. W. R. McGowen. Des. 76,352–3; Sept. 18.
Burner: *See*—
Gas burner. Oil burner.
Burner. R. Hoffman. 1,684,585; Sept. 18.
Cabinet, Commodity. J. L. Flannery. 1,684,913; Sept. 18.
Cabinet, Filing. R. J. Wood. 1,685,011; Sept. 18.
Cabinet for prescriptions, etc., Filing. J. F. Bartosh. 1,684,761; Sept. 18.
Cameras and for cinematograph and similar projection apparatus, Spool case for. J. E. Thornton. 1,685,010; Sept. 18.
Cameras, View finder for. T. F. Eastman. 1,684,821; Sept. 18.
Can-opening machine. A. Rydquist. 1,684,414; Sept. 18.
Can-spout-seal cutter. A. Jaeschke. 1,684,447; Sept. 18.
Cap and pipe clamp, Sanitary well. E. E. Honglund. 1,684,582; Sept. 18.
Car construction. W. Geiger. 1,684,537; Sept. 18.
Car-door lock. J. P. Ward and R. E. Hyde. 1,684,980; Sept. 18.
Cars, Safety device for motor. S. Nishida, M. Ota, and G. Inose. 1,684,776; Sept. 18.
Carrier: *See*—
Milk-bottle carrier.
Case: *See*—
Cigarette case. Vanity case.

Carbohydrate derivatives, Manufacture of. W. Harrison. 1,684,732; Sept. 18.
Carbon-monoxide-testing means and method. E. W. Hultman. 1,684,587; Sept. 18.
Carbonate of sodium and magnesium, Manufacture of double. H. Rubinstein. 1,684,782; Sept. 18.
Carbonization and distillation of wood, Apparatus for the. R. Malbay. 1,684,875; Sept. 18.
Carburetor. M. Mallory. 1,684,550; Sept. 18.
Carburetor. M. Mallory. 1,684,840; Sept. 18.
Cardcase and making the same. C. L'Enfant. 1,684,737; Sept. 18.
Card feeding and handling device. E. A. Ford. 1,684,389; Sept. 18.
Card-perforating machines, Carriage return and normalizing mechanism for. W. W. Lasker. 1,684,546; Sept. 18.
Carriage, Baby. R. Stinson. 1,684,930; Sept. 18.
Carriage for test stands and lathes, Universal holding. J. C. Schaf, jr. 1,684,600; Sept. 18.
Carton. H. Batkin. 1,684,385; Sept. 18.
Carton, Display. J. E. Ferguson and H. L. Mooney. 1,684,579; Sept. 18.
Case-washing machine. I. R. Hippenmeyer. 1,684,828; Sept. 18.
Cases, Constructing shipping. P. F. Boeye. 1,684,725; Sept. 18.
Casting articles of corrosionproof steel. F. Hauptmeyer. 1,684,700; Sept. 18.
Casting machine and casting, Centrifugal. M. C. Smotzer. 1,684,419; Sept. 18.
Casting under pressure, Apparatus for. E. Jorgen-Jensen. 1,684,994; Sept. 18.
Catalytic dehydrogenation. M. Luther, K. Pierch, and E. Kranepuhl. 1,684,634; Sept. 18.
Catch for vanity boxes, Spring. P. A. Reutter. 1,684,413; Sept. 18.
Cement blocks, Forming. M. Tomarin. 1,684,525; Sept. 18.
Cementing apparatus. S. E. Manning. 1,684,551; Sept. 18.
Chain track for motor vehicles. V. Jereczek. 1,684,918; Sept. 18.
Chain transmission for elevator devices. O. F. Shepard. 1,684,520; Sept. 18.
Chair cushion. J. E. Horn. 1,684,989; Sept. 18.
Chair-leg brace. J. Cerny. 1,684,727; Sept. 18.
Channel induction furnace Submerged. E. F. Northrup. 1,684,504; Sept. 18.
Chopper: *See*—
Cotton chopper.
Christmas-tree stand. H. G. Rice. 1,684,970; Sept. 18.
Cigarette case. J. F. Bahr. 1,684,381; Sept. 18.
Circulation and heating system, Automobile. C. B. Waters. 1,684,900; Sept. 18.
Clamp: *See*—
Clothes clamp. Sole clamp.
Hose clamp. Wire clamp.
Power clamp.
Clasp: *See*—
Lingerie clasp.
Clasp jaw for fur scarfs or the like. W. Greenberg. Des. 76,344; Sept. 18.
Cleaner: *See*—
Windshield cleaner.
Cleansing nicotine vapors. R. G. Newborne. 1,684,740; Sept. 18.
Closure caps to containers, Applying. J. E. Sharp. 1,684,892; Sept. 18.
Closure, Container. F. R. Schriver. 1,684,415; Sept. 18.
Clothes clamp, Bed. M. Harris. 1,6844,443; Sept. 18.
Clothespin. A. T. Wood. 1,684,721; Sept. 18.
Clutch. G. C. Carhart. 1,684,471; Sept. 18.
Coin-propelling device for vending machines. G. P. Grant. 1,684,863; Sept. 18.
Cold-rolled articles, Making. E. E. Slick. 1,684,643; Sept. 18.
Compressor, Lubricant, E. W. Davis. 1,684,946; Sept. 18.
Computing machine. H. L. Pitman. 1,684,515; Sept. 18.
Concentrating and amalgamating apparatus of the vertical type, Centrifugal. F. D. Lewis. 1,684,870; Sept. 18.
Concrete construction. H. P. Hayden. 1,684,624; Sept. 18.
Concrete during curing, Preventing evaporation from. H. P. Hayden. 1,684,671; Sept. 18.
Concrete, Manufacture of reenforced. R. E. Dill. 1,684,663; Sept. 18.
Concrete pipe, Method of and apparatus for forming. C. F. Buente. 1,684,858; Sept. 18.
Condenser. E. A. Johnsen. 1,684,959; Sept. 18.
Condenser, Adjustable. L. A. Hammarlund. 1,684,917; Sept. 18.
Condenser, Electrostatic. R. H. Hoyt. 1,684,491; Sept. 18.
Condenser, Variable. J. Lyons, jr. 1,684,964; Sept. 18.
Conduit and switch support for gasoline serving stations, Unitary. R. H. Olley. 1,684,777; Sept. 18.
Conduit connecter. J. E. Hill. 1,684,826; Sept. 18.
Conduit core, Collapsible. H. E. Lindas. 1,684,497; Sept. 18.
Container. J. F. Lamb and F. W. Schade. 1,684,899; Sept. 18.
Container. J. M. Young. 1,684,722; Sept. 18.
Container, Dispensing. A. E. Kunsl. 1,684,495; Sept. 18.
Container for annealing and similar purposes. J. B. Green. 1,684,391; Sept. 18.
Container for food products. F. E. Bickford. 1,684,938; Sept. 18.
Container for testing devices. L. P. Jackson. 1,684,769; Sept. 18.
Container, Metal. A. Schroeder. 1,684,891; Sept. 18.
Containers, Partition for. A. G. Smith. 1,684,458; Sept. 18.
Control and timing device, Form-roller. R. C. Pickett and H. W. Thompson. 1,685,033; Sept. 18.
Control, Door. H. Hubbell. 1,684,704; Sept. 18.
Control system, Automatic electric. B. H. Greene. 1,685,052; Sept. 18.
Controlling means, Prime-mover-. A. Pfau. 1,684,884; Sept. 18.
Conveying apparatus. E. B. Tolman, jr. 1,684,649; Sept. 18.
Cooling and ventilating device. F. L. Chatham. 1,684,474; Sept. 18.
Cooling means for internal-combustion engines. E. A. Sperry. 1,684,809; Sept. 18.
Copyholder. H. C. Binkele. 1,685,041; Sept. 18.
Core-drilling head. C. S. Clarke. 1,685,045; Sept. 18.
Core form, Collapsible and portable. H. J. Yager. 1,685,012; Sept. 18.
Cotton chopper. R. S. Moore. 1,684,711; Sept. 18.
Cotton picker. P. H. White. 1,684,981; Sept. 18.
Counterboring head. W. E. Pabst. 1,684,804; Sept. 18.
Counterflow treatment of petroleum oils. R. A. Halloran. 1,684,489; Sept. 18.
Coupler, Chain. M. J. Frambach. 1,684,580; Sept. 18.
Coupling: *See*—
Jump-ring coupling.
Coupling for bead chains. W. J. Gagnon. 1,685,048; Sept. 18.
Coupling for conduits. F. E. Roach. 1,684,516; Sept. 18.
Cover, Tire. W. T. Sutherland. 1,684,420; Sept. 18.
Cover with fastener, Box or casing. H. W. Clark. 1,684,983; Sept. 18.
Covering for mop handles, Cushion. L. Stoessel. 1,684,604; Sept. 18.
Crate, Bottle. E. Trantman. 1,684,898; Sept. 18.
Crossing, Railway highway. H. E. Muchnic. 1,684,924; Sept. 18.
Crucible, Centrifugal liquid. J. Maximoff and M. S. de Costa. 1,684,800; Sept. 18.
Crutch attachment. H. F. Frantz. 1,684,697; Sept. 18.
Curing device, Ham-. B. Hansen and P. J. Ramlon. 1,684,865; Sept. 18.
Cushion: *See*—
Chair cushion.
Cutter: *See*—
Can-spout-seal cutter.
Cutter of rotary well-drilling disk bits, Mounting for. W. T. Woods. 1,684,462; Sept. 18.
Cutting die. R. V. Woodworth. 1,684,934; Sept. 18.
Cylinder and tire gauge. H. P. Grohn. 1,684,864; Sept. 18.
Deaerating apparatus. O. Larsen. 1,684,834; Sept. 18.
Dehydration and distillation of tars or oils. D. Rider. 1,685,034; Sept. 18.
Dental articulator. A. Gysi. 1,684,393; Sept. 18.
Dentist's kit and instrument support. H. A. Silberman. 1,684,417; Sept. 18.
Dial. A. D. Rose. 1,684,598; Sept. 18.
Dial, Variometer. H. R. Russon. 1,684,972; Sept. 18.
Diaphragm-control mounting. C. M. Hayman. 1,684,701; Sept. 18.
Diathermy and galvanic ear set. D. B. Catlin. 1,684,859; Sept. 18.
Dice, Set of. W. D. Walker. 1,684,609; Sept. 18.
Die: *See*—
Cutting die.
Die press. A. J. Thomas. Re17,085; Sept. 18.
Direction indicator for automobiles. E. Guerrero and A. Grey. 1,684,916; Sept. 18.
Dish-forming machine, Sundae-. C. Barbieri. 1,684,465; Sept. 18.
Disk, Surfacing. H. R. Stratford. 1,684,748; Sept. 18.
Disk wheel. C. S. Johnston. 1,684,398; Sept. 18.
Dispensing device. C. W. Hartwig. 1,684,623; Sept. 18.
Dispensing device, Sanitary. E. C. Morris. 1,684,877; Sept. 18.
Dispensing lubricating oils, Apparatus for. H. R. Newman. 1,684,879; Sept. 18.
Display device, Merchandise-. W. Zareko. 1,684,753; Sept. 18.
Display method. A. Gnudi. 1,684,795; Sept. 18.
Divider. U. A. Rabie. 1,684,886; Sept. 18.
Dolly. E. Karfiol. Des. 76,348; Sept. 18.
Doll. D. Stennard. Des. 76,359; Sept. 18.
Dolls, Device for moving the eyes of. O. Resch. 1,685,000; Sept. 18.
Doorcheck. F. Cowan. 1,685,023; Sept. 18.
Door, Elevator. H. W. Shonnard. 1,684,719; Sept. 18.
Door jamb and handhold, Combination. R. W. Jenkins. 1,684,532; Sept. 18.
Door opening and closing means. H. W. Shonnard. 1,684,893; Sept. 18.
Door, Oven. W. F. Rogers. 1,684,808; Sept. 18.
Draw pot. J. A. Reece. 1,644,456; Sept. 18.

Drawer and slide therefor, Double-acting. C. L. Russ. 1,684,889; Sept. 18.
Drawing or drafting mechanism. J. Jolly. 1,684,993; Sept. 18.
Drier: *See*—
Open-top drier.
Drier. E. A. Hults. 1,685,026; Sept. 18.
Drill: *See*—
Radial drill. Rock drill.
Drilling mechanism. E. G. Gartin. 1,684,669; Sept. 18.
Drilling mechanism. T. R. E. Rundqvist. 1,684,888; Sept. 18.
Drum, and method of locking the drums and flange sections thereof, Draw-works. D. S. Faulkner and E. Timbs. 1,684,482; Sept. 18.
Drying fur pelts, Apparatus for. A. Pierini, A. T. Hopkins, and H. M. Haven. 1,684,927; Sept. 18.
Dye, Textile. W. S. Lawrence. 1,684,401; Sept. 18.
Dyeing fibrous materials. J. Nüsslein. 1,684,881; Sept. 18.
Dyestuff and preparing the same, Yellow azo. E. Fischer and C. E. Miller. 1,684,762; Sept. 18.
Dyestuffs and preparing them, Mordant azo. A. Phillips and M. Dabelow. 1,684,778; Sept. 18.
Edibles and the incased edible, Incasing. W. D. Thompson. 1,684,421; Sept. 18.
Electric furnace for producing silicon carbide. H. E. White. 1,684,611; Sept. 18.
Electric heater. H. G. Catheart. 1,684,472; Sept. 18.
Electric heater. J. H. Knapp. 1,684,450; Sept. 18.
Electric machine, Dynamo-. C. T. Hibbard. 1,685,054; Sept. 18.
Electric plug, Multiple-socket. I. F. Giles and J. A. Roberts. 1,684,915; Sept. 18.
Electric switch. T. A. Both. 1,684,982; Sept. 18.
Electrical appliances, Arrangement of. H. W. Houck. 1,684,703; Sept. 18.
Electrical connecter. C. G. Jansky. 1,684,588; Sept. 18.
Electrical device. H. R. Van Deventer. 1,684,461; Sept. 18.
Electrical testing. F. A. Hubbard. 1,684,588; Sept. 18.
Electrode, Dry-cell. H. D. Hodge. 1,684,735; Sept. 18.
Electrolyte for storage batteries. A. B. N. Werby. 1,684,852; Sept. 18.
Electrolytic rectifier. W. C. Read. 1,684,684; Sept. 18.
Elevating apparatus, Automobile. R. J. Denio. 1,684,729; Sept. 18.
Elevator-door-operating mechanism. W. B. Crowell. 1,684,438; Sept. 18.
Elevator-signal panel. P. S. Van Bloem. Des. 76,365; Sept. 18.
Engine: *See*—
Internal-combustion engine.
Engine exhaust. G. W. Schultz. 1,685,006; Sept. 18.
Extension table. L. J. Hill. 1,684,831; Sept. 18.
Eye-treating apparatus. De F. B. Catlin. 1,684,860; Sept. 18.
Fan attachment for sewing machines. D. Shpater. 1,684,601; Sept. 18.
Fastener. F. S. Carr. 1,685,063; Sept. 18
Fastener, Door. F. J. Watkinson. 1,684,814; Sept. 18.
Fastener, Plano-bridle-strap. T. J. Malcolm. 1,685,001; Sept. 18.
Fastener, Safety door. C. Brand. 1,684,790; Sept. 18.
Fastener, Separable. F. S. Carr. 1,685,061–2; Sept. 18.
Fastener, Separable. G. Johnson. 1,685,055; Sept. 18.
Fastening-inserting machine. G. Goddu. 1,684,390; Sept. 18.
Feed-governing means for arc lamps. P. R. Bassett. 1,684,817; Sept. 18.
Feed mechanism. E. B. Stimpson. 1,684,747; Sept. 18.
Feeder, Automatic. A. Lemmon. 1,684,675; Sept. 18.
Feeder for laundry machinery, Automatic. T. L. Lowe. 1,684,451; Sept. 18.
Feeding mechanism, Sheet-. C. H. Nitsch and J. W. Baker. 1,684,741; Sept. 18.
Fence post. N. A. Ochiltree. 1,684,802; Sept. 18.
Ferrule for connecting plumbing fittings with piping. E. W. N. Boosey. 1,684,571; Sept. 18.
Fertilizer production. M. P. Nitsche. 1,684,712; Sept. 18.
Fiber board, Synthetic resin. A. L. Clapp. 1,684,755; Sept. 18.
Filing drawer. F. C. Morse. 1,684,842; Sept. 18.
Finder. C. A. Bornmann. 1,684,531; Sept. 18.
Fireplace, Domestic. R. O. P. Theobalds. 1,684,749; Sept. 18.
Fitting for plumbing systems, Clean-out. E. W. M. Boosey. 1,684,572; Sept. 18.
Flange, Closet. E. W. N. Boosey. 1,684,570; Sept. 18.
Flange, Reenforced. F. Hinneken. 1,684,396; Sept. 18.
Flotation process. A. H. Fischer. 1,684,536; Sept. 18.
Flour and producing the same, Soya-bean. G. Albers. 1,684,654; Sept. 18.
Flow regulator. O. Larsen. 1,684,835; Sept. 18.
Fluids, Apparatus for proportionately mixing. G. W. McKee. 1,684,500; Sept. 18.
Flying shears. F. C. Biggert, jr. 1,684,617; Sept. 18.
Flywheel. A. A. Alexander. 1,684,568; Sept. 18.
Foldable table. B. E. Willett. 1,684,653; Sept. 18.
Folded-sheet object and forming same. E. C. Morris. 1,684,878; Sept. 18.
Folder. H. A. W. Wood. 1,684,901; Sept. 18.
Folding box. I. B. Blake. 1,685,016; Sept. 18.
Folding box. F. E. Warner. 1,684,931; Sept. 18.
Folding machine. A. Olson and L. R. Tufts. 1,684,803; Sept. 18.
Form for concrete. F. M. Barton. 1,684,614; Sept. 18.
Forming articles, Method of and apparatus for. R. Beardsley. 1,684,658; Sept. 18.
Fortune-telling device. N. Lappas. 1,684,998; Sept. 18.
Fountain pen. S. Centofanti. 1,685,044; Sept. 18.
Frame: *See*—
Side frame.
Friction plugs from containers, Device for removing. G. A. Leighton. 1,684,708; Sept. 18.
Fruit scrubber. F. Stebler. 1,684,896; Sept. 18.
Fuel to internal-combustion engines, Apparatus for supplying. J. M. Bartley. 1,684,528; Sept. 18.
Furnace: *See*—
Channel induction furnace. Warm-air furnace.
Glass furnace.
Furnace register. T. Olinger. 1,684,512; Sept. 18.
Furniture, Article of. H. Allemeier. 1,684,936; Sept. 18.
Fuse mechanism. M. J. Sandin. 1,684,518; Sept. 18.
Fuse, Renewable. J. G. Clemens. 1,684,432; Sept. 18.
Game. M. Milewski. 1,685,076; Sept. 18.
Game. W. C. Ward. 1,684,813; Sept. 18.
Game ball. A. T. Saunders. 1,684,557; Sept. 18.
Game, Shooting. G. B. Deacon. 1,684,577; Sept. 18.
Gas burner. H. H. Carroll. 1,684,575; Sept. 18.
Gas burner. W. L. Sharp. 1,684,457; Sept. 18.
Gas burner. P. J. Sonner. 1,684,647; Sept. 18.
Gasket. C. B. Bailey. 1,684,656; Sept. 18.
Gasket, Spark-plug. C. B. Bailey. 1,685,050; Sept. 18.
Gate-closing device. W. K. Edwards. 1,684,578; Sept. 18.
Gauge: *See*—
Brake pressure gauge. Cylinder and tire gauge.
Gear chain. E. I. Braddock. 1,685,019; Sept. 18.
Gear control for machine tools, Oil-. R. M. Galloway. 1,685,049; Sept. 18.
Gear, Draft. W. H. Cotton. 1,684,388; Sept. 18.
Gear, Electrical switch. F. C. Coates. 1,684,604; Sept. 18.
Gear-lapping machine. C. H. Logue. 1,684,872; Sept. 18.
Generator: *See*—
Acetylene-gas generator.
Generator and the like, Steam. J. Tait. 1,684,976; Sept. 18.
Glass-edge-forming means, Sheet-. F. Fraser. 1,684,440; Sept. 18.
Glass furnace. T. B. Hart. 1,685,053; Sept. 18.
Glass to width, Process and apparatus for maintaining sheet. E. T. Ferngren. 1,684,438; Sept. 18.
Golf indicating mechanism. H. G. Conner. 1,684,576; Sept. 18.
Golf practice apparatus. C. H. Kraetsch 1,684,674; Sept. 18.
Grain-stowage device. J. C. Dill. 1,684,478; Sept. 18.
Grass catcher. J. F. Reynolds. 1,684,744; Sept. 18.
Grease on rolls, Device for preventing collection of. H. J. Harris. 1,684,581; Sept. 18.
Grinding machine. W. J. Guild and F. H. Grimshaw. 1,684,485; Sept. 18.
Grinding machine. W. J. Guild and L. C. Kenyon. 1,684,486; Sept. 18.
Grinding machine. R. A. Heald, C. J. Highberg, and E. M. Taylor. 1,684,487; Sept. 18.
Grinding machine having balanced spindle. S. Einstein. 1,684,792; Sept. 18.
Grinding machine, Valve-seat. J. A. Yerkes and R. H. Lemmon. 1,684,854; Sept. 18.
Grinding wheel, Segmental. T. Larsson. 1,684,770; Sept. 18.
Grocer's helper. P. K. Basmadjian. 1,684,529; Sept. 18.
Guide for sliding doors, Adjustable. N. Kauth. 1,684,706; Sept. 18.
Gun sight. J. B. Henderson. 1,684,823; Sept. 18.
Hair net. P. E. Hitzigrath. 1,684,734; Sept. 18.
Hair-undulating tong. A. Tingberg. 1,684,646; Sept. 18.
Hair waver. H. M. Montealegre. 1,684,774; Sept. 18.
Hair-waving equipment. W. G. Shelton. 1,684,642; Sept. 18.
Hammer. J. H. Phillips. 1,684,514; Sept. 18.
Hand bag. J. N. Lowe. 1,684,339; Sept. 18.
Handle: *See*—
Latch-mechanism handle.
Handle for smoking table. W. J. Simon. Des. 76,358; Sept. 18.
Handling strips, Method and apparatus for. L. I. Johnson. 1,684,867; Sept. 18.
Hanger for trousers and cravats. S. H. Campbell. Des. 76,341; Sept. 18.
Harvesting machine with scatterer. T. Hintermann. 1,684,626; Sept. 18.
Hay rake and buncher. J. Boyd. 1,684,573; Sept. 18.
Headgear. V. Habib. 1,684,670; Sept. 18.
Headlight. W. D. Ryan. 1,684,688; Sept. 18.
Headlight, Automobile. L. L. Wagner. 1,684,720; Sept. 18.
Heater: *See*—
Air heater. Vehicle heater.
Automobile heater. Water heater.
Electric heater.
Heater. C. H. Thomasson. 1,684,750; Sept. 18.
Heater and draft-governing means therefor. N. Olson. 1,684,844; Sept. 18.
Heater for liquid-heat-transmission systems. D. M. Luehrs. 1,684,963; Sept. 18.

Sept. 25, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

ABC Service, Chicago, Ill. Partially-printed forms, memorandum pads, note paper, etc. 247,479; Sept. 25; Serial No. 259,786; published July 17, 1928. Class 37.
Abbott, Emerson N., Baldwin, N. Y. Dyes. 247,372; Sept. 25; Serial No. 266,774; published July 10, 1928. Class 6.
Albrecht-Bechtold, Inc., Philadelphia, Pa. Paper and cloth boxes of all descriptions and merchandise folders. 247,438; Sept. 25; Serial No. 265,822; published July 10, 1928. Class 2.
Allen Auto Specialty Company, The, New York, N. Y. Adjustable louver window ventilators. 247,532; Sept. 25. Class 34.
Alpha Delta Theta, Brooklyn, N. Y. Sorority pins, badges, charms, etc. 247,308; Sept. 25; Serial No. 266,451; published July 17, 1928. Class 28.
Aluminum Specialty Co., Atlanta, Ga. Phonographs. 247,203; Sept. 25; Serial No. 267,179; published July 17, 1928. Class 36.
American Druggists Syndicate, Long Island City, N. Y. Medicinal wine tonics. 247,300; Sept. 25; Serial No. 264,937; published June 26, 1928. Class 6.
American Glue Company, Boston, Mass. Abrasive papers and abrasive cloths. 247,518; Sept. 25. Class 4.
American Steel Pipe & Tank Company, Los Angeles, Calif. Metal casing for oil-well use. 247,534; Sept. 25. Class 13.
American Wholesale Corporation (Baltimore Bargain House). (See Witz, Moritz H., assignor.)
Anderson, Michael, Dayton, Ohio. Bird tonic. 247,481; Sept. 25; Serial No. 259,612; published July 10, 1928. Class 6.
Ansonia Clock Company, The, Brooklyn and New York, N. Y. Clocks. 247,211; Sept. 25; Serial No. 267,027; published July 17, 1928. Class 27.
Antoine. (See Cierpilkowski, Antoine.)
Arnold, Friedrich, Greiz, Germany. Wool dress goods. 247,491; Sept. 25; Serial No. 263,600; published July 10, 1928. Class 42.
Arrowsmith Manufacturing Company, New York, N. Y. Supports for the arches and other parts of the feet. 247,452; Sept. 25; Serial No. 248,270; published July 17, 1928. Class 44.
Art Metal Construction Company, Jamestown, N. Y. Metallic articles. 247,247; Sept. 25. Class 32.
Automatic Merchandizer Inc., The, Boston, Mass. Chocolate in bar form. 247,349; Sept. 25; Serial No. 249,255; published July 17, 1928. Class 46.
Automatic Merchandizer Inc., The, Boston, Mass. Vending machines. 247,350; Sept. 25; Serial No. 248,950; published July 17, 1928. Class 23.
Autopiano Company, New York, N. Y. Pianos, player pianos, player actions, and parts thereof. 247,363; Sept. 25; Serial No. 226,706; published Apr. 27, 1926. Class 36.
Avakian, Dr. V. A., Company, Chattanooga, Tenn. Beverages. 247,474; Sept. 25; Serial No. 265,609; published July 17, 1928. Class 45.
Ayer Company, The, Lowell, Mass. Laxative tablets. 247,502; Sept. 25; Serial No. 264,185; published June 19, 1928. Class 6.
Ayer, Harriet Hubbard, Inc. (See Thomas, Vincent B., assignor.)
Baby Calculator Sales Company. (See Zewiske, Harold S.)
Bamberger, L., & Company, Newark, N. J. Millinery. 247,370; Sept. 25; Serial No. 263,850; published July 3, 1928. Class 39.
Bamberger-Reinthal Company, The, Cleveland, Ohio. Caps, scarfs, and sweaters. 247,276; Sept. 25; Serial No. 256,710; published July 3, 1928. Class 39.
Bartells, Raymond O., Milwaukee, Wis. Periodical. 247,376; Sept. 25; Serial No. 266,781; published July 17, 1928. Class 38.
Bassett Metal Goods Company, Inc., The, Shelton, Conn. Locks. 247,454; Sept. 25; Serial No. 265,086; published July 10, 1928. Class 25.
Bateman Manufacturing Company, Grenloch, N. J., assignor to Fred. H. Bateman Company, Philadelphia, Pa. Certain agricultural machinery. 68,826; renewed Apr. 28, 1928.
Beeman's Laboratory, Inc., Atlanta, Ga. Lactated pepsin compound. 247,515; Sept. 25. Class 6.
Beeman's Laboratory, Inc., Atlanta, Ga. Greaseless ointment. 247,516; Sept. 25. Class 6.
Belcano Company. (See Rowden, Mary E.)
Bernhardt, Bessie E., Wheeling, W. Va., and Steubenville and Zanesville, Ohio. Suits and overcoats for men. 247,525; Sept. 25. Class 39.
Bernhardt, M. E., Company, Inc., New York, N. Y. Pocket friction cigar lighters. 247,321; Sept. 25; Serial No. 266,167; published July 10, 1928. Class 34.
Bertram, Herman H., New York, N. Y. Astringents, beauty creams, dry rouges, etc. 247,286; Sept. 25; Serial No. 264,957; published June 26, 1928. Class 6.
Bertram, Herman H., New York, N. Y. Astringents, astringent cerates, beauty creams, etc. 247,287–95; Sept. 25; Serial Nos. 264,248–56; published June 19, 1928. Class 6.
Bertram, Herman H., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 247,296–7; Sept. 25; Serial Nos. 264,946–7; published June 19, 1928. Class 6.
Bertram, Herman H., New York, N. Y. Astringents, astringent cerates, beauty creams, etc. 247,298; Sept. 25; Serial No. 264,945; published June 19, 1928. Class 6.
Bettoney, Harry, doing business as Cundy-Bettoney Company, Boston, Mass. Clarinets and brass-wind musical instruments. 247,190; Sept. 25; Serial No. 265,253; published July 17, 1928. Class 36.
Birmingham Grinding Works. (See Womack, Henry B.)
Birresborner Mineralbrunnen H. Lohr & Eylert, assignor to Birresborner Mineralbrunnen Aktiengesellschaft, Duesseldorf, Germany. Natural carbonated mineral waters. 71,826; renewed Nov. 17, 1928.
Blish Milling Company, Seymour, Ind. Wheat flour and plain flour. 247,323; Sept. 25; Serial No. 250,966; published May 15, 1928. Class 46.
Blotz-Henneman Seed Co., The, Clayton, N. Mex. Baby-chick scratch, chick starter, baby lima beans, etc. 247,317; Sept. 25; Serial No. 266,236; published July 17, 1928. Class 46.
Blue Ridge Glass Corporation, Kingsport, Tenn. Glass. 247,200–2; Sept. 25; Serial Nos. 267,228–30; published July 10, 1928. Class 33.
Bon-Dee Golf Ball Co., Detroit, Mich. Golf balls. 247,496–8; Sept. 25; Serial Nos. 265,515–17; published July 10, 1928. Class 22.
Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. 247,275; Sept. 25; Serial No. 256,997; published Jan. 31, 1928. Class 39.
Bower & Kaufmann, Philadelphia, Pa. Hosiery. 247,457; Sept. 25; Serial No. 265,031; published July 3, 1928. Class 39.
Boyle, John, & Company, Incorporated, New York, N. Y. Cotton duck. 247,316; Sept. 25; Serial No. 266,237; published July 17, 1928. Class 42.
Brauer Bros. Inc., St. Louis, Mo. Golf bags, golf-bag hoods, tennis-racket covers, etc. 244,427; Sept. 25; Serial No. 251,384; published July 10, 1928. Class 22.
Brody Novelty Candy Package Co., Inc., New York, N. Y. Candy. 247,199; Sept. 25; Serial No. 267,234; published July 17, 1928. Class 46.
Brown Company, Portland, Me., and Berlin, N. H. Paper suitable for use in making artificial leather. 247,330; Sept. 25; Serial No. 263,254; published July 10, 1928. Class 37.
Brown, George C., & Company, Memphis, Tenn. Oil of cedarwood. 247,284; Sept. 25; Serial No. 265,033; published June 26, 1928. Class 6.
Buchsbaum, S., & Co., Chicago, Ill. Finger rings, bar pins, brooches, etc. 247,342; Sept. 25; Serial No. 261,858; published July 17, 1928. Class 28.
Buckstaff Company, The, Oshkosh, Wis. Children's chairs, tables, and rocking-chairs. 247,487–8; Sept. 25; Serial Nos. 258,458–9; published July 17, 1928. Class 32.
Buffalo Flour Mills Corporation, Buffalo, N. Y. Wheat flour. 247,254; Sept. 25; Serial No. 267,745; published July 17, 1928. Class 46.
Burnham's, Margaret, Cottage Candies of The Pacific Coast, Oakland, Calif. Candy. 247,530; Sept. 25. Class 46.
Burns, Jabez, & Sons, Inc., New York, N. Y. House organ. 247,235; Sept. 25; Serial No. 264,141; published July 10, 1928. Class 38.
Butterfield-Barry Company, The, New York, N. Y. Paperboard. 247,184; Sept. 25; Serial No. 265,424; published July 10, 1928. Class 37.
Calendoi Laboratories. (See Mitchell, Isaac.)
Cameron, Lewis O., assignor to H. McKinnie, Pittsburgh, Pa. Gas heater furnace. 70,482; renewed Sept. 8, 1928.
Cannon Engineering Company, Jamaica, N. Y. Steam pressing irons, vaporizers, ironing boards, etc. 247,451; Sept. 25; Serial No. 266,124; published July 17, 1928. Class 24.
Carr Milling Company, The, Hamilton, Ohio. Self-rising flour. 247,469; Sept. 25; Serial No. 264,635; published July 3, 1928. Class 46.
Carson Pirie Scott & Co., Chicago, Ill. Cotton piece goods. 247,257; Sept. 25; Serial No. 267,534; published July 17, 1928. Class 42.
Chamberlain, Charles H., Trenton, N. J. China bathroom fixtures. 247,371; Sept. 25; Serial No. 263,689; published July 10, 1928. Class 13.
Champlin Refining Company, Enid, Okla. Gasoline. 247,462; Sept. 25; Serial No. 264,871; published July 17, 1928. Class 15.
Chasem Co., The. (See Schlesinger, Charles.)
Chemisch-Pharmazeutische A. G. Bad Homburg, Bad Homburg, Germany. Preparations for treatment of ailments of the heart, hair tonics, toilet powders, etc. 247,390; Sept. 25; Serial No. 261,864; published June 26, 1928. Class 6.
Chemisch-Pharmazeutische A. G. Bad Homburg, Bad Homburg, Germany. Hemorrhoidal suppositories and salves and preparations to relieve itching, etc. 247,391; Sept. 25; Serial No. 261,863; published June 26, 1928. Class 6.

Chemisch-Pharmazeutische A. G. Bad Homburg, Bad Homburg, Germany. Quinine solutions, chemical preparations, etc. 247,415; Sept. 25; Serial No. 261,862; published June 26, 1928. Class 6.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics. 247,249–51; Sept. 25; Serial Nos. 267,750–2; published July 17, 1928. Class 42.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics. 247,252–3; Sept. 25; Serial Nos. 267,747–8; published July 17, 1928. Class 42.

Chess Brothers, The Central Expanded Metal Company, Pittsburgh, Pa., to The Consolidated Expanded Metal Companies, Pittsburgh, Pa., and Wheeling, W. Va., successor. Expanded metal. 72,061; renewed Dec. 29, 1928.

Chester, Frank E., doing business as F. E. Chester Manufacturing Company, Providence, R. I. Fishing tackle. 71,802; renewed Dec. 15, 1928.

Chicago Flexible Shaft Company, Chicago, Ill. Electric sadirons, grills, toaster stoves, etc. 247,210; Sept. 25; Serial No. 267,038; published July 17, 1928. Class 21.

Chipman's, Chas., Sons, Easton, Pa., to Chas. Chipman's Sons Co. Inc., New York, N. Y. Hosiery. 70,129; renewed Aug. 4, 1928.

Chipman's, Chas., Sons, Easton, Pa., to Chas. Chipman's Sons Co. Inc., New York, N. Y., successor. Hosiery. 71,178; renewed Nov. 10, 1928.

Cierplikowski, Antoine, doing business as Antoine, Paris, France. Face and skin lotion. 247,180; Sept. 25; Serial No. 265,521; published June 19, 1928. Class 6.

City of Carlsbad, Carlsbad, Czechoslovakia. Medicinal salts. 71,351; renewed Nov. 17, 1928.

Cobb, Francis S. (See Pansy Compound Co., The.)

Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, etc. 247,307; Sept. 25; Serial No. 266,913; published July 17, 1928. Class 28.

Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, etc. 247,307; Sept. 28; Serial No. 266,457; published July 17, 1928. Class 28.

Colt's Patent Fire Arms Manufacturing Co. (See Johns-Pratt Company, The, assignor.)

Congoleum-Nairn, Inc., Kearny, N. J. Linoleum and cork carpet. 247,213; Sept. 25; Serial No. 266,914; published July 17, 1928. Class 20.

Consolidated Expanded Metal Companies, The. (See Chess Brothers, The Central Expanded Metal Company.)

Corduroy Tire Company, Grand Rapids, Mich. Automobile tires and inner tubes. 247,266; Sept. 25; Serial No. 267,353; published July 17, 1928. Class 35.

Crown Willamette Paper Company, San Francisco, Calif. Paper towels. 247,311; Sept. 25; Serial No. 266,418; published July 10, 1928. Class 37.

Cundy-Bettoney Company. (See Bettoney, Harry.)

Daniels Manufacturing Company, Rhinelander, Wis. Paper napkins. 247,345; Sept. 25; Serial No. 261,609; published July 10, 1928. Class 37.

Data Watch Company. (See Plaut, Joseph M.)

Delnbac, Auguste, Vals-les-Bains, France. Medical bandages, bands, and belts, etc. 247,406; Sept. 25; Serial No. 265,627; published July 10, 1928. Class 44.

De Luxe Clock & Mfg. Co., Inc., The, New York, N. Y. Clock cases. 247,269; Sept. 25; Serial No. 258,169; published Jan. 17, 1928. Class 27.

Deming & Gould Co., Chicago, Ill., and South Bellingham, Wash. Canned salmon. 247,255 6; Sept. 25; Serial Nos. 267,634–5; published July 17, 1928. Class 46.

De Zeeuw & Van Raalt, to N. V. de Zeeuw & Van Raalt's Handels and Reederykantoor, Vlaardingen, Netherlands, successor. Herring. 32,108; renewed Nov. 1, 1928.

Dickey Eye Water Co. (See Moultbrop, Robert, assignor.)

Dictograph Products Corporation, New York, N. Y. Acousticons, interior communicating telephone systems, etc. 247,328; Sept. 25; Serial No. 249,514; published July 17, 1928. Class 21.

Doll, Jacob, & Sons, New York, N. Y. Pianos and pianos with interior players. 70,137; renewed Aug. 4, 1928.

Dor Vent Co., The. (See Weaver, Clark E.)

D'Orsay Perfumeries Corporation, New York, N. Y. Perfumes, perfume extracts, bath salts, etc. 247,431; Sept. 25; Serial No. 253,316; published June 19, 1928. Class 6.

Drucker, Nathan, doing business as Stop Remedy Co., Newport, Ky. Medicine. 247,483; Sept. 25; Serial No. 259,224; published July 10, 1928. Class 6.

Dunne, Frank W., Co., Oakland, Calif. Prepared enamel paint. 247,224; Sept. 25; Serial No. 266,797; published July 10, 1928. Class 16.

Dunne, Frank W., Co., Oakland, Calif. Prepared enamel paint. 247,229; Sept. 25; Serial No. 266,802; published July 10, 1928. Class 16.

Dunne, Frank W., Co., Oakland, Calif. Varnish. 247,230; Sept. 25; Serial No. 266,800; published July 10, 1928. Class 16.

Dunne, Frank W., Co., Oakland, Calif. Varnish. 247,388; Sept. 25; Serial No. 266,798; published July 10, 1928. Class 16.

Duomo Food Products, Inc., New York, N. Y. Rice, macaroni, canned mushrooms, etc. 247,508; Sept. 25; Serial No. 262,955; published July 10, 1928. Class 46.

Duplex Silk Mills, Inc., New York, N. Y. Silks in the piece. 247,460; Sept. 25; Serial No. 264,971; published July 3, 1928. Class 42.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dry colors for shading inks. 247,188; Sept. 25; Serial No. 265,322; published July 10, 1928. Class 11.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dry colors. 247,499; Sept. 25; Serial No. 265,323; published July 10, 1928. Class 16.

Eagle Food Products Corporation, Memphis, Tenn. Pickles, hot vegetable relishes, sweet-pickle relishes. 247,426; Sept. 25; Serial No. 257,005; published July 10, 1928. Class 46.

Earl Fruit Company, Wenatchee, Wash. Fresh apples. 247,489; Sept. 25; Serial No. 255,494; published Feb. 21, 1928. Class 46.

Eastern Chemical Company. (See Kechijian, Arshloos.)

Eau De Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Ellers, Paula S., Los Angeles, Calif. Shampoo. 247,425; Sept. 25; Serial No. 257,537; published June 19, 1928. Class 6.

Elkes, C. H., & Sons Limited, Uttoxeter, England. Biscuits. 247,231; Sept. 25; Serial No. 267,188; published July 10, 1928. Class 46.

Engel, Jacob, doing business as J. Engel & Company, Baltimore, Md. Ladies' wrist watches. 247,215; Sept. 25; Serial No. 266,725; published July 17, 1928. Class 27.

Eskimo Pie Corporation, Louisville, Ky. Frozen confections. 247,303; Sept. 25; Serial No. 264,571; published July 10, 1928. Class 46.

Eskimo Pie Corporation, Louisville, Ky. Vacuum jars for the storage of food products. 247,430; Sept. 25; Serial No. 265,629; published July 10, 1928. Class 2.

Eskimo Pie Corporation, Louisville, Ky. Solidified carbon dioxide. 247,471; Sept. 25; Serial No. 264,572; published July 10, 1928. Class 6.

Evans Milling Company, Indianapolis, Ind. Product of corn in flake form. 247,359; Sept. 25; Serial No. 234,468; published Nov. 1, 1927. Class 46.

Everett, W. C., & Company, Andrews, N. C. Preparation used in the treatment of pellagra, sore mouth, etc. 247,193; Sept. 25; Serial No. 265,203; published July 10, 1928. Class 6.

Everseal Manufacturing Co. Inc., New York, N. Y. Paints, paste paint, and paint colors. 247,478; Sept. 25; Serial No. 260,219; published Mar. 27, 1928. Class 16.

Evinrude Motor Company, Milwaukee, Wis. Outboard boat motors. 247,189; Sept. 25; Serial No. 265,265; published July 17, 1928. Class 23.

Farr Bros. Co., Allentown, Bethlehem, Reading, and Easton, Pa. Shoes. 247,187; Sept. 25; Serial No. 265,372; published Sept. 3, 1928. Class 39.

Fay, Eli P., Los Angeles, Calif. Battery separators. 247,429; Sept. 25; Serial No. 253,877; published July 17, 1928. Class 21.

Federal Distributors, Inc., doing business as the Lucky Girl Company, Portland, Oreg. Cocoanut shampoo, perfume, etc. 247,472; Sept. 25; Serial No. 264,510; published July 10, 1928. Class 6.

Fellows Medical Manufacturing Company, Inc., New York, N. Y. Preparation of hypophosphites. 247,503; Sept. 25; Serial No. 263,758; published June 26, 1928. Class 6.

Fisadco Limited, London, England. Fish cleaning, boning, and cutting machines, fish-slicing machines, etc. 247,477; Sept. 25; Serial No. 260,498; published July 17, 1928. Class 23.

Fisher, Wm., & Co., San Francisco, Calif. Wheat flour, rolled oats, canned evaporated milk, etc. 247,419; Sept. 25; Serial No. 261,102; published July 10, 1928. Class 46.

Fitzgerald Manufacturing Company, The, Torrington, Conn. Sheet packing. 247,464; Sept. 25; Serial No. 264,815; published July 17, 1928. Class 35.

Floret Company, The, New York, N. Y. Preparations for making effervescent drinks. 247,302; Sept. 25; Serial No. 264,816; published June 26, 1928. Class 6.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 247,313–4; Sept. 25; Serial Nos. 266,309–10; published July 17, 1928. Class 42.

Franks, George M., doing business as George Franks Co., St. Paul, Minn. Perfumes, face creams, face powders, etc. 247,422; Sept. 25; Serial No. 259,906; published June 19, 1928. Class 6.

Frazer Paint Company, Detroit, Mich. Paints, paste paints, and paint enamels. 247,500; Sept. 25; Serial No. 265,100; published July 10, 1928. Class 16.

Freeman, Sidney J., & Sons, New York, N. Y. Cigars. 247,241; Sept. 25; Serial No. 264,371; published July 17, 1928. Class 17.

G-G Products Company. (See Grossman, George E.)

Gas Grain Treater Co., Portland, Oreg. Grain-treating materials. 247,485; Sept. 25; Serial No. 258,524; published July 10, 1928. Class 6.

Gene Pharmacal Company. (See Herman, Eugene F.)

General Cable Corporation, New York, N. Y. Electrical wires and cables. 247,436; Sept. 25; Serial No. 265,788; published July 17, 1928. Class 21.

General Steel Products, Inc., Minneapolis, Minn. Springs for automobile front coach seats. 247,533; Sept. 25. Class 19.

Geraghty, Maurice P., Chicago, Ill. Articles consisting of a pressed paper tube. 247,192; Sept. 25; Serial No. 265,205; published July 17, 1928. Class 7.

Gibson, Inc., Kalamazoo, Mich. Banjos. 247,382; Sept. 25; Serial No. 266,524; published July 17, 1928. Class 36.

Gibsonburg Lime Products Company, The, Gibsonburg, Ohio. Agricultural lime. 247,222; Sept. 25; Serial No. 266,525; published July 17, 1928. Class 10.

Ginsberg, S., Sons, Baltimore, Md. Men's and boys' clothing. 247,463; Sept. 25; Serial No. 264,810; published July 3, 1928. Class 39.

Gold Star Novelty Co. (See Wiesenfeld, Louis.)

Goldberg & Van Praag, New York, N. Y. Handkerchief. 247,268; Sept. 25; Serial No. 258,226; published July 17, 1928. Class 42.

Golden Hind Laxative Company, Northampton, Mass. Fruit laxative. 247,348; Sept. 25; Serial No. 261,312; published July 10, 1928. Class 6.

Gorse, Frank W., Co., Needham, Mass. Covered rubber thread. 247,186; Sept. 25; Serial No. 265,879; published July 17, 1928. Class 40.

Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Rayon underwear for women and children. 247,466; Sept. 25; Serial No. 264,681; published July 3, 1928. Class 39.

Grasselli Chemical Company, The, Cleveland, Ohio. Tinning fluxes. 247,209; Sept. 25; Serial No. 267,043; published July 10, 1928. Class 6.

Great Western Stove Co., Leavenworth, Kans. Electric ranges. 247,439; Sept. 25; Serial No. 265,839; published July 17, 1928. Class 21.

Greenbaum, Harry L., doing business as Technical Color and Chemical Works, New York, N. Y. Plastic material. 247,505; Sept. 25; Serial No. 263,316; published July 10, 1928. Class 16.

Greenhill and Sons, Ltd., London, England. Buttons, buckles, bag rings, etc. 247,325; Sept. 25; Serial No. 251,900; published July 10, 1928. Class 40.

Gregory Medicine Co., assignor to C. J. Lincoln Company, Little Rock, Ark. Antiseptic medicinal oil. 72,486; renewed Jan. 26, 1929.

Gregory & Read Company, Lynn, Mass. Boots and shoes. 247,182; Sept. 25; Serial No. 265,475; published July 3, 1928. Class 39.

Grey, Manuel, Mexico, Mexico. Medicinal preparation. 247,242; Sept. 25; Serial No. 264,491; published July 10, 1928. Class 6.

Grossman, George E., doing business as G-G Products Company, Cleveland Heights, Ohio. Polishing compound. 247,405; Sept. 25; Serial No. 265,641; published July 10, 1928. Class 16.

Gruber and Steinberg, St. Louis, Mo. Neckties. 247,338; Sept. 25; Serial No. 262,456; published July 3, 1928. Class 39.

Gussaroff, Ida, doing business as The I-D-A Health-O-Gram Co. (Not Inc.), Grand Rapids, Mich. Electric health appliance belts. 247,446; Sept. 25; Serial No. 266,028; published July 17, 1928. Class 44.

H. & W. Company, The, Newark, N. J. Combination garments. 247,492; Sept. 25; Serial No. 263,548; published July 3, 1928. Class 39.

Hahne & Company, Newark, N. J. Suits, coats, trousers, etc. 247,233; Sept. 25; Serial No. 264,231; published July 3, 1928. Class 39.

Haight, A. S., & Company, New York, N. Y. Men's athletic underwear. 247,279; Sept. 25; Serial No. 255,750; published July 3, 1928. Class 39.

Halpern, Louis, Shoe Company, Inc., Boston, Mass. Shoes. 247,183; Sept. 25; Serial No. 265,437; published July 3, 1928. Class 39.

Handi-Appliance Corporation, Buffalo, N. Y. Laundry washing machines. 247,433; Sept. 25; Serial No. 265,643; published July 10, 1928. Class 24.

Hanifen, John E., Company, Philadelphia, Pa. Sweaters, sweater coats, and sweater suits. 247,519; Sept. 25; Class 39.

Hartol Products Corporation, New York, N. Y. Oils and greases. 247,239; Sept. 25; Serial No. 264,303; published July 17, 1928. Class 15.

Hatch, Robt. L., assignor to Robert L. Hatch Corporation, New York, N. Y. Nuts. 69,687; renewed June 30, 1928.

Hejna Radio Corporation, Long Island City, N. Y. Portable radio receiving sets and antennæ and loud speakers. 247,358; Sept. 25; Serial No. 239,983; published July 17, 1928. Class 21.

Heinrich Höfer Gesellschaft m. b. H., Vienna, Austria. Preparation for stimulating metabolism. 247,223; Sept. 25; Serial No. 266,246; published June 26, 1928. Class 6.

Heinrich Höfer Gesellschaft m. b. H., Vienna, Austria. Preparation for stimulating metabolism. 247,225; Sept. 25; Serial No. 266,247; published June 26, 1928. Class 6.

Helbein-Stone Company, Inc., doing business as Templar Watch Co., New York, N. Y. Watches, watchcases, and watch movements and parts of the same. 247,378; Sept. 25; Serial No. 266,808; published July 17, 1928. Class 27.

Henderson, O. H., Houston, Tex. Hair oil. 247,227; Sept. 25; Serial No. 266,201; published June 26, 1928. Class 6.

Herman, Eugene F., doing business as Gene Pharmacal Company, Cincinnati, Ohio. Capsules for treatment of headache. 247,401; Sept. 25; Serial No. 265,842; published June 26, 1928. Class 6.

Hickey, Daniel T., doing business as Maty Surtea Co. (Not Inc.), Chicago, Ill. Natural product for food and beverage purposes. 247,501; Sept. 25; Serial No. 265,107; published July 10, 1928. Class 46.

Hordes, Joseph, Inc., New York, N. Y. Slickers, necktles, pajamas, etc. 247,354; Sept. 25; Serial No. 244,400; published July 3, 1928. Class 39.

Howser Valve Tool Manufacturing Co., La Porte, Ind. Valve-reseating tools. 247,476; Sept. 25; Serial No. 260,889; published July 17, 1928. Class 23.

Hudson Hat Manufacturing Co. Inc., Nutley, N. J. Men's hats. 247,351; Sept. 25; Serial No. 248,410; published July 3, 1928. Class 39.

Hudson Manufacturing Co., Minneapolis, Minn. Sprayers and spraying attachments. 247,434; Sept. 25; Serial No. 265,647; published July 17, 1928. Class 23.

Hurt, Wilbur T., doing business as Throatex Laboratories, Hollywood, Calif. Bactericidal and germicidal antiseptic solution for sore throat, etc. 247,448; Sept. 25; Serial No. 266,030; published July 10, 1928. Class 6.

Hygrolit Incorporated, Kearny, N. J. Preparation for treatment of textile fibres. 247,396; Sept. 25; Serial No. 265,906; published June 26, 1928. Class 6.

Hyman & Kaplan, Philadelphia, Pa. Children's apparel. 247,335; Sept. 25; Serial No. 262,910; published June 26, 1928. Class 39.

I-D-A Health-O-Gram Co. (Not Inc.), The. (See Gussaroff, Ida.)

Inter-State Auto Parts Co., Inc., New York, N. Y. Automobile accessories. 247,355; Sept. 25; Serial No. 243,313; published July 17, 1928. Class 21.

Interstate Cotton Oil Refining Co., Sherman, Tex. All kinds of wooden boxes, crates, and cases. 247,179; Sept. 25; Serial No. 265,547; published July 10, 1928. Class 2.

Jarrett Type Cleaner, Inc., New York, N. Y. Type cleaner. 247,490; Sept. 25; Serial No. 263,605; published July 17, 1928. Class 4.

Jend Drug Co. (See Segal, Nathaniel J.)

Jenkins, Harold C., doing business as Jenkins Pharmical Co., Los Angeles, Calif. Emmenagogue. 247,384; Sept. 25; Serial No. 266,085; published June 26, 1928. Class 6.

Johns-Pratt Company, The, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Electrical apparatus and supplies. 71,259; renewed Nov. 10, 1928.

Johnson-Handley-Johnson Company, Grand Rapids, Mich. Wooden household furniture. 247,344; Sept. 25; Serial No. 261,636; published July 17, 1928. Class 32.

Johnson, Mary E., trustee, to Iver Johnson's Arms & Cycle Works, Fitchburg, Mass., successor. Rifles, shotguns, pistols and revolvers. 68,386; renewed Apr. 7, 1928.

Johnson, Mary E., trustee, to Iver Johnson's Arm & Cycle Works, Fitchburg, Mass., successor. Rifles, shotguns, pistols, and revolvers. 68,389; renewed Apr. 7, 1928.

Jordan Foods Inc., also doing business as Jordan Inc., Chicago, Ill. Pumpernickel bread. 247,340; Sept. 25; Serial No. 262,404; published July 17, 1928. Class 46.

Kechijian, Arshloos, doing business as Eastern Chemical Company, Providence, R. I. Digestive tablets. 247,522; Sept. 25. Class 6.

Keebler Weyl Baking Co., Philadelphia, Pa. Crackers, wafers, or biscuits. 247,461; Sept. 25; Serial No. 264,885; published July 17, 1928. Class 46.

Keith, Geo. E., Company, Brockton, Mass. Hosiery. 247,494; Sept. 25; Serial No. 263,476; published July 3, 1928. Class 39.

Kelly, Geo. J., Inc., Lynn, Mass. Shoe-polish creams. 247,364; Sept. 25; Serial No. 224,515; published July 17, 1928. Class 4.

Kennell-Ellis Studios, Salem, Oreg. Photo prints. 247,465; Sept. 25; Serial No. 264,794; published July 17, 1928. Class 38.

Kenny, J. T., & Co., St. Paul, Minn. Soap chips. 71,712; renewed Dec. 15, 1928.

Kensington, Alexander B., London, England. Chemically-prepared fertilizer. 247,435; Sept. 25; Serial No. 265,663; published July 10, 1928. Class 10.

Kivowitz, Maurice, Youngstown, Ohio. Medicinal preparation. 247,402; Sept. 25; Serial No. 265,796; published June 26, 1928. Class 6.

Klebanoff & Grossman, New York, N. Y. Jewelry. 247,482; Sept. 25; Serial No. 259,450; published July 17, 1928. Class 28.

Knoll & Co., Ludwigshafen-on-the-Rhine, assignor to J. D. Riedel Aktiengesellschaft, Berlin-Britz, Germany. Purgatives. 70,640; renewed Sept. 22, 1928.

Knott, Wm. T., Company, Inc., New York, N. Y. Hosiery. 247,531; Sept. 25. Class 39.

Kokomo Steel & Wire Co., Kokomo, Ind. Wire fencing. 247,320; Sept. 25; Serial No. 266,204; published July 10, 1928. Class 13.

Koppel, Albert, New Orleans, La. Tea. 72,025; renewed Dec. 29, 1928.

Kossman, Albert, doing business as Kossman Chemical Co., New Orleans, La. Drain-opening chemical solvent. 247,273; Sept. 25; Serial No. 257,479; published July 10, 1928. Class 6.

Kounias, George, Modesto, Calif. Fresh deciduous fruits. 247,265; Sept. 25; Serial No. 267,365; published July 17, 1928. Class 46.

Kregel, Ann K., Nebraska City, Nebr. Sandwiches. 247,221; Sept. 25; Serial No. 266,545; published July 17, 1928. Class 46.

Kurasiewicz & Pludowski, Chicago, Ill. Medicines. 247,393–4; Sept. 25; Serial Nos. 266,034–5; published June 26, 1928. Class 6.
La Salle Medicine Co. (See Lehrer Brothers.)
Laura Hair Novelty Co., The. (See Thau, Charles K.)
Lehrer Brothers, doing business as La Salle Medicine Co., Los Angeles, Calif. Laxative and alkalinizing saline salt, cough syrup, etc. 247,511; Sept. 25; Serial No. 262,570; published June 19, 1928. Class 6.
Lelong, Lucien, assignor to Lucien Lelong, Inc., New York, N. Y., and Paris, France. Toilet and bath soaps and shaving soap. 247,274; Sept. 25; Serial No. 257,166; published July 17, 1928. Class 4.
Leschey Myers Cigar Box Co., York, Pa. Wooden cigar boxes. 247,309–10; Sept. 25; Serial Nos. 266,432–3; published July 10, 1928. Class 2.
Letac Chemical Co., Inc., New York, N. Y. Medicine for use in the treatment of high blood pressure. 247,441; Sept. 25; Serial No. 265,974; published July 10, 1928. Class 6.
Lewis-Wise Co. Inc., New York, N. Y. Robes, dressing gowns, lounge suits, etc. 247,191; Sept. 25; Serial No. 263,222; published July 3, 1928. Class 39.
Libby, McNeill & Libby, Chicago, Ill. Cheese, canned pork and beans, canned and preserved fruits, etc. 247,413; Sept. 25; Serial No. 244,452; published Nov. 1, 1927. Class 46.
Licht, Harry, New York, N. Y. Hosiery. 247,347; Sept. 25; Serial No. 261,319; published July 3, 1928. Class 39.
Lincoln, C. J., Company. (See Gregory Medicine Co., assignor.)
Lincoln Chocolate and Confectionery Company, Philadelphia, Pa. Candy bars. 247,326; Sept. 25; Serial No. 251,623; published July 17, 1928. Class 46.
Little Crow Milling Company, Warsaw, Ind. Pancake flour and buckwheat flour. 247,258; Sept. 25; Serial No. 267,498; published July 17, 1928. Class 46.
Lockwood, Brackett Co., Waltham, Mass. Soaps and shampoo-soap solutions. 247,356; Sept. 25; Serial No. 242,956; published July 17, 1928. Class 4.
Lorraine Manufacturing Co., of New York, Inc. New York, N. Y. Textiles of cotton. 247,270; Sept. 25; Serial No. 257,987; published July 17, 1928. Class 42.
Lucas Heating Systems, Inc., Chicago, Ill. Warm-air furnaces. 247,360; Sept. 25; Serial No. 233,497; published July 10, 1928. Class 34.
Lucky Girl Company. (See Federal Distributors, Inc.)
Luyties Pharmacal Company, St. Louis, Mo. Demulcent toilet cream. 247,404; Sept. 25; Serial No. 265,669; published June 19, 1928. Class 6.
Mahady, E. F. Company, Boston, Mass. Medical and surgical instruments, apparatus, and parts thereof. 247,283; Sept. 25; Serial No. 255,119; published July 17, 1928. Class 44.
Manhattan Rubber Mfg Co., The, Passaic, N. J. Bearings. 247,341; Sept. 25; Serial No. 262,318; published July 17, 1928. Class 23.
Manning, Bowman & Co., Meriden, Conn. Articles made of base metal. 247,178; Sept. 25; Serial No. 265,553; published July 17, 1928. Class 13.
Marathon Electric Manufacturing Company, Wausau, Wis. Electric fans, motors, polishing lathes, etc. 247,346; Sept. 25; Serial No. 261,445; published July 17, 1928. Class 21.
Marston, Lillian, Buffalo, N. Y. Sanitary refill paper bag linings for garbage cans. 247,300; Sept. 25; Serial No. 266,470; published July 10, 1928. Class 2.
Massachusetts Pie Baking Company, Fall River, Mass. Pies. 247,442; Sept. 25; Serial No. 265,977; published July 17, 1928. Class 46.
Master Metal Products Inc., Buffalo, N. Y. Sink strainers. 247,220; Sept. 25; Serial No. 266,548; published July 10, 1928. Class 13.
Mathews, George W., doing business as Number Twenty Seven Laboratories, Washington, D. C. Medicine for colds, grippe, etc. 247,512; Sept. 25; Serial No. 262,727; published June 26, 1928. Class 6.
Maty Surtea Co. (See Hickey, Daniel T.)
McCracken, Florence B., Walla Walla, Wash. Syrup for flavoring. 247,226; Sept. 25; Serial No. 266,210; published July 10, 1928. Class 46.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Magnesium hydroxide. 247,510; Sept. 25; Serial No. 262,753; published June 19, 1928. Class 6.
McKinnie, Henry. (See Cameron, Lewis O., assignor.)
Meblin, Paul G., & Sons., New York, N. Y. Pianos. 72,564; renewed Feb. 2, 1929.
Metz, H. A., Laboratories, Inc., New York, N. Y. Analgesic sedative and hypnotic. 247,513; Sept. 25; Serial No. 264,470; published June 19, 1928. Class 6.
Middle West Hat Mfg. Company, The, Cleveland, Ohio. Men's hats. 247,232; Sept. 25; Serial No. 263,903; published July 3, 1928. Class 39.
Midland Company, The, South Milwaukee, Wis. Jointed clips for harness. 247,237; Sept. 25; Serial No. 263,964; published July 17, 1928. Class 3.
Midwest Publishing Co., Appleton, Wis. Publication. 247,198; Sept. 25; Serial No. 267,266; published July 17, 1928. Class 38.
Miller, Albert, & Company, Chicago, Ill. Fresh potatoes. 247,304; Sept. 25; Serial No. 266,505; published July 17, 1928. Class 46.
Miller, Mrs. Anna M., Alliance, Nebr. Salad dressing. 247,506; Sept. 25; Serial No. 263,048; published July 10, 1928. Class 46.
Miller Rubber Company, The, Akron, Ohio. Bathing caps, household aprons, rubber gloves, slippers, etc. 247,337; Sept. 25; Serial No. 262,671; published July 3, 1928. Class 39.
Minneapolis Paper Co., Minneapolis, Minn. Printing, wrapping, writing, ledger, and bond papers. 72,375; renewed Jan. 19, 1929.
Mitchell, Isaac, doing business as Calendol Laboratories, Brooklyn, N. Y. Vegetable and chemical compound, antiseptic, healing, and styptic. 247,383; Sept. 25; Serial No. 266,172; published June 26, 1928. Class 6.
Montgomery Ward & Co. Incorporated, Chicago, Ill. Aluminum kitchen utensils. 247,486; Sept. 25; Serial No. 258,479; published July 17, 1928. Class 13.
Moret Parfumeur. (See Peoples Drug Stores, Inc.)
Mossides, Cost, Barberton, Ohio. Malt extract. 247,420; Sept. 25; Serial No. 260,902; published July 10, 1928. Class 46.
Moulthrop, Robert, Eufaula, assignor, by mesne assignments, to Dickey Eye Water Co., Montgomery, Ala. Eye water. 71,030; renewed Oct. 27, 1928.
Mülhens, Paul P., doing business as Eau De Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Eau de Cologne water, perfumery, hair tonics, etc. 247,416; Sept. 25; Serial No. 261,801; published June 19, 1928. Class 6.
Munsell, J. Guy, doing business as Munsell's Mineral Food Company, Lincoln, Nebr. Preparation for the relief of constipation. 247,245; Sept. 25; Serial No. 254,642; published July 10, 1928. Class 6.
Musher and Company, Washington, D. C. Mayonnaise and salad dressings. 247,392; Sept. 25; Serial No. 266,090; published July 10, 1928. Class 46.
Mutual Stores, Inc., Oakland, Calif. Canned fruits, vegetables, jellies, and fish. 247,520; Sept. 25. Class 46.
My-Ro-La Manufacturing Company, Toledo, Ohio. Hair pomade. 247,389; Sept. 25; Serial No. 261,978; published June 26, 1928. Class 6.
Naamlooze Vennootschap Glasfabriek "Leerdam", V. H. Jeckel, Mijnssen & Co., Leerdam, Netherlands. Glass and glassware. 247,248; Sept. 25; Serial No. 267,899; published July 17, 1928. Class 33.
Napier Co., The, Meriden, Conn. Pyrophoric pocket lighters. 247,322; Sept. 25; Serial No. 266,146; published July 17, 1928. Class 34.
Nash, Earle R., Riverside, Calif. Fresh citrous fruits, fresh deciduous fruits, etc. 247,536; Sept. 25. Class 46.
National Association of Stationary Engineers, The, Utica, N. Y., to National Association of Power Engineers, Chicago, Ill., successor. Magazines. 71,669; renewed Dec. 8, 1928.
National Process Company, Inc., New York, N. Y. Posters or form letters and advertising literature. 247,368; Sept. 25; Serial No. 194,407; published July 10, 1928. Class 38.
National Provisioner, Inc., The, New York, N. Y. Publication. 247,261; Sept. 25; Serial No. 267,443; published July 17, 1928. Class 38.
Nelson-Elsmann Co., The, Chicago, Ill. Typewriter ribbons. 247,380; Sept. 25; Serial No. 266,740; published July 17, 1928. Class 11.
Nesbitt Fruit Products Inc., Los Angeles, Calif. Beverages and syrups and extracts for making the same. 247,535; Sept. 25. Class 45.
Newtowne Manufacturing Company, Boston, Mass. Men's, women's, and children's raincoats. 247,459; Sept. 25; Serial No. 264,999; published July 3, 1928. Class 39.
North German Lloyd, New York, N. Y. Illustrated monthly magazines. 247,238; Sept. 25; Serial No. 264,253; published July 17, 1928. Class 38.
Norton Bros. and Morris, Los Angeles, Calif. Men's trousers and lumberjacks. 247,528; Sept. 25. Class 39.
Norvell-Shapleigh Hardware Company, now by change of name to Shapleigh Hardware Company, St. Louis, Mo. Refrigerators. 70,705; renewed Sept. 29, 1928.
Number Twenty Seven Laboratories. (See Mathews, George W.)
Oeser, Mary B., doing business as The Mary B. Oeser Products Co., Terre Haute, Ind. Face powder, talcum powder, cold cream, etc. 247,423; Sept. 25; Serial No. 259,689; published June 26, 1928. Class 6.
Oravox Ltd., London, England. Telephonic apparatus and appliances and accessories. 247,421; Sept. 25; Serial No. 260,843; published July 10, 1928. Class 44.
Oshkosh Trunk Company, The, Oshkosh, Wis. Trunks and hand luggage. 247,361; Sept. 25; Serial No. 229,979; published July 3, 1928. Class 3.
Pabst, Edmund F., doing business as Pabst Chemical Co., Chicago, Ill. Book matches. 247,329; Sept. 25; Serial No. 263,339; published May 29, 1928. Class 9.
Palmolive-Peet Company, The, Chicago, Ill. Talcum powder. 247,509; Sept. 25; Serial No. 262,769; published June 19, 1928. Class 6.
Pansy Compound Co., The, Crawfordsville, Ind., to Francis S. Cobb, doing business as The Pansy Compound Co., Dedham, Mass., successor. Laxative and remedy. 71,628; renewed Dec. 8, 1928.

Parker Brothers Inc., Portland, Me., and Salem, Mass. Game. 247,228; Sept. 25; Serial No. 266,878; published July 10, 1928. Class 22.
Pathfinder Radio Corporation, Chicago, Ill. Radio receiving apparatus and equipment. 247,362; Sept. 25; Serial No. 227,278; published July 20, 1928. Class 21.
Paton, John G., Company, Inc., The, New York, N. Y. Honey. 247,395; Sept. 25; Serial No. 265,925; published July 10, 1928. Class 46.
Peek, Frean & Co., Limited, London, England. Biscuits. 71,902; renewed Dec. 22, 1928.
Pendleton Flour Mill Co., Pendleton, Oreg. Wheat flour. 247,219; Sept. 25; Serial No. 266,556; published July 17, 1928. Class 46.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 247,243; Sept. 25; Serial No. 255,044; published July 17, 1928. Class 28.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 247,244; Sept. 25; Serial No. 255,025; published July 17, 1928. Class 28.
Pennsylvania Rubber Company of America, Jeannette, Pa. Pneumatic vehicle tires. 247,262; Sept. 25; Serial No. 267,450; published July 17, 1928. Class 35.
Peoples Drug Stores, Inc., doing business as Moret Parfumeur, Washington, D. C. Toilet water, cold cream, powder, etc. 247,458; Sept. 25; Serial No. 265,010; published July 10, 1928. Class 6.
Perdentin Laboratories, Inc., New York, N. Y. Local anæsthetic. 247,381; Sept. 25; Serial No. 266,744; published July 10, 1928. Class 6.
Photo Chemical Company, Inc., Philadelphia, Pa. Photographic developer. 247,400; Sept. 25; Serial No. 265,855; published June 26, 1928. Class 6.
Piggly Wiggly Corporation, Memphis, Tenn. Coaster wagons and scooters. 247,428; Sept. 25; Serial No. 251,081; published July 10, 1928. Class 22.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Plate glass. 247,212; Sept. 25; Serial No. 266,952; published July 17, 1928. Class 33.
Plaut, Joseph M., doing business as Data Watch Company, Cincinnati, Ohio. Watches. 247,443; Sept. 25; Serial No. 265,983; published July 17, 1928. Class 27.
Polymet Manufacturing Corporation, New York, N. Y. Radio parts and accessories. 247,366; Sept. 25; Serial No. 197,450; published May 22, 1928. Class 21.
Pond's Bitters Company, Chicago, Ill. Rock and rye with horehound and bitters. 72,336; renewed Jan. 19, 1929.
Portland Packing Co., Portland, Me. Canned corn. 247,468; Sept. 25; Serial No. 264,652; published July 17, 1928. Class 46.
Premier Cutlery, Inc., New York, N. Y. Manicure sets, manicure implements, and parts thereof. 247,375; Sept. 25; Serial No. 266,748; published July 17, 1928. Class 44.
Price, Pearl S., Buffalo, N. Y. Game. 247,411; Sept. 25; Serial No. 265,560; published July 10, 1928. Class 22.
Prigler Company, The, Detroit, Mich. Liniment. 247,353; Sept. 25; Serial No. 248,055; published July 10, 1928. Class 6.
Procter & Gamble Company, The, Cincinnati, Ohio. Washing powder. 247,282; Sept. 25; Serial No. 255,132; published July 10, 1928. Class 4.
Pulsometer Steam Pump Co., New York, N. Y. Steam pumps. 72,170; renewed Jan. 5, 1929.
Q R S Company, The, Chicago, Ill. Cameras and picture-projecting machines. 247,374; Sept. 25; Serial No. 266,749; published July 17, 1928. Class 26.
Radio Engineering Laboratories. (See Srebroff, Charles M.)
Raef, William S., doing business as Star Bottling Co., Dallas, Tex. Beverage and sirup and extract for making the same. 247,177; Sept. 25; Serial No. 265,562; published July 17, 1928. Class 45.
Rau Fastener Company, Providence, R. I. Pin fasteners. 247,343; Sept. 25; Serial No. 261,649; published July 3, 1928. Class 40.
Rauh, Stanley E., New York, N. Y. Mirrors. 247,373; Sept. 25; Serial No. 266,750; published July 17, 1928. Class 32.
Reach, A. J., Company, Philadelphia, Pa. Wrist and ankle supporters, athletic supporters, and bandages. 247,467; Sept. 25; Serial No. 264,653; published July 17, 1928. Class 44.
Riedel, J. D., Aktiengesellschaft. (See Knoll & Co., assignor.)
Roberts, J. W., Limited, assignor to J. W. Roberts, Limited, Leeds, England. Prepared asbestos. 70,939; renewed Oct. 20, 1928.
Robinson, Louie E., Council Bluffs, Iowa. Face and body massage cream. 247,301; Sept. 25; Serial No. 264,913; published June 26, 1928. Class 6.
Roeding Fig & Olive Co., Fresno, Calif. Dried fruits. 247,260; Sept. 25; Serial No. 267,461; published July 17, 1928. Class 46.
Rogers, M. H., Inc., New York, N. Y. Textile washable rugs. 247,206; Sept. 25; Serial No. 267,145; published July 17, 1928. Class 42.
Roman Meal Company, Tacoma, Wash. Bread and cereal products. 247,197; Sept. 25; Serial No. 267,278; published July 17, 1928. Class 46.
Ronzone, Michele, doing business as Sweetheart Baking Co., Elkhart, Ind. Bread. 247,271; Sept. 25; Serial No. 257,762; published July 3, 1928. Class 46.
Rosenfeld, Arnold, Silk Corporation, New York, N. Y. Silk piece goods. 247,195; Sept. 25; Serial No. 267,317; published July 10, 1928. Class 42.
Ross, Dr. W. J., Company, Los Angeles, Calif. Food for cats and dogs. 247,517; Sept. 25. Class 46.
Rowden, Mary E., doing business as Belcano Company, Cleveland Heights, Ohio. Cosmetics. 247,417; Sept. 25; Serial No. 261,456; published June 26, 1928. Class 6.
Royal Feed & Milling Company, doing business as Royal-Stafolife Mills, Memphis, Tenn. Corn meal and stock feeds. 247,379; Sept. 25; Serial No. 266,830; published July 17, 1928. Class 46.
Rubber Service Laboratories Company, The, Akron, Ohio. Chemical compounds. 247,407–8; Sept. 25; Serial Nos. 265,572–3; published June 26, 1928. Class 6.
Rubber Service Laboratories Company, The, Akron, Ohio. Compound used as a vulcanization accelerator in the curing of rubber articles. 247,409; Sept. 25; Serial No. 265,571; published June 26, 1928. Class 6.
Rubber Service Laboratories Company, The, Akron, Ohio. Composition employed in the acid treatment of metals or metal products. 247,410; Sept. 25; Serial No. 265,570; published June 26, 1928. Class 6.
Rubinstein, Helena, Inc., New York, N. Y. Lip stick. 247,397; Sept. 25; Serial No. 265,904; published June 26, 1928. Class 6.
Rytex Company, The, Indianapolis, Ind. Writing paper and envelopes. 247,440; Sept. 25; Serial No. 265,857; published July 10, 1928. Class 37.
St. Albans Grain Company, St. Albans, Vt. Feeds and dairy stock. 247,331; Sept. 25; Serial No. 263,176; published July 17, 1928. Class 46.
St. Albans Grain Company, St. Albans, Vt. Horse feed. 247,332; Sept. 25; Serial No. 263,175; published July 17, 1928. Class 46.
Saliger, Alois B., New York, N. Y. Talking machines. 247,264; Sept. 25; Serial No. 267,391; published July 17, 1928. Class 36.
Salitry, Max, doing business as The Windsor Shirt & Blouse Co., New York, N. Y. Blouses, shirts, and pajamas. 247,527; Sept. 25. Class 39.
Sanitarium Equipment Company, Battle Creek, Mich. Therapeutic lamps. 247,181; Sept. 25; Serial No. 265,503; published July 17, 1928. Class 44.
Savoy Watch Co., Inc., New York, N. Y. Watches, watch-cases, watch movements, and parts thereof. 247,315; Sept. 25; Serial No. 266,272; published July 17, 1928. Class 27.
Schlesinger, Charles, doing business as The Chasem Co., New York, N. Y. Preparation repellent to mosquitoes, gnats, etc. 247,399; Sept. 25; Serial No. 265,859; published June 26, 1928. Class 6.
Schmitt, H. A., Mandan, N. Dak. Gasoline, kerosene, and lubricating oils and greases. 247,280; Sept. 25; Serial No. 255,683; published Jan. 31, 1928. Class 15.
Schokoladenfabrik Mauxion m. b. H., Saalfeld, Germany. Chocolate, cocoa, fruit preserves, etc. 247,412; Sept. 25; Serial No. 244,961; published July 10, 1928. Class 46.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 247,514; Sept. 25; Serial No. 264,201; published July 10, 1928. Class 44.
Schweiz. Kindermehl-Fabrik Belp, Switzerland. Infant's food. 247,424; Sept. 25; Serial No. 259,138; published June 10, 1928. Class 46.
Scovill Manufacturing Company, Waterbury, Conn. Common and safety pins. 247,365; Sept. 25; Serial No. 211,236; published July 3, 1928. Class 40.
Sears, Roebuck and Co., Chicago, Ill. Cameras. 247,529; Sept. 25. Class 26.
Security Warehouse and Investment Co., St. Louis, Mo. Whiskey for medicinal purposes. 247,259; Sept. 25; Serial No. 267,406; published July 17, 1928. Class 49.
Segal, Nathaniel J., doing business as Jend Drug Co., Baltimore, Md. Citrate of magnesia. 247,386; Sept. 25; Serial No. 266,891; published July 10, 1928. Class 6.
Seitz, John A., New York, N. Y. Alterative for internal use. 70,451; renewed Sept. 1, 1928.
Servel, Inc., New York, N. Y. Refrigerators, refrigerator parts, etc. 247,444; Sept. 25; Serial No. 265,987; published July 10, 1928. Class 31.
Sha-O-Chem Company, The, Trevorton, Pa. Lung balsam. 247,327; Sept. 25; Serial No. 249,609; published July 10, 1928. Class 6.
Shapleigh Hardware Company. (See Norvell-Shapleigh Hardware Company.)
Sha-Vex Co., The. (See Wilson, Roy M.)
Shelby Cycle Company, The, Shelby, Ohio. Bicycles. 247,319; Sept. 25; Serial No. 266,220; published July 17, 1928. Class 19.
Shellabarger Mills & Elevator Company, Salina, Kans. Bread. 247,208; Sept. 25; Serial No. 267,085; published July 17, 1928. Class 46.
Shellabarger Mills & Elevator Company, doing business as Shellabarger Mills, Salina, Kans. Wheat flour. 247,484; Sept. 25; Serial No. 258,599; published July 17, 1928. Class 46.
Sheridan-Clayton Paper Co., St. Joseph, Mo. Paper bags. 247,185; Sept. 25; Serial No. 265,413; published July 17, 1928. Class 2.
Shuttles Bros. & Lewis, Dallas, Tex. Finger rings of precious metal. 247,318; Sept. 25; Serial No. 266,221; published July 17, 1928. Class 28.
Signet Hosiery Company, Cambridge, Mass. Lingerie. 247,234; Sept. 25; Serial No. 264,206; published July 3, 1928. Class 39.

Silbermann, Kohn & Wallenstein Inc., New York, N. Y. Jewelry. 247,480; Sept. 25; Serial No. 259,784; published July 17, 1928. Class 28.
Silwo Silk Co. (See Zysman, Isidore.)
Simplex Flux & Solder Company of America, Cleveland, Ohio. Fluxes and welding and brazing compounds. 247,385; Sept. 25; Serial No. 266,052; published June 26, 1928. Class 6.
Simpson, Fred W., doing business as Western States Farmers Exchange and Honey Dew Mills, Chicago, Ill. Poultry and stock feed. 247,305; Sept. 25; Serial No. 266,486; published July 3, 1928. Class 46.
Sinclair, T. M., & Co. Ltd., Cedar Rapids, Iowa. Sliced bacon. 247,196; Sept. 25; Serial No. 267,281; published July 17 1928. Class 46.
Skinner, Jordan C., doing business as Skinner Boot & Reliner Company, Dayton, Ohio. Boots and reliners for pneumatic tires. 247,367; Sept. 25; Serial No. 194,953; published July 17, 1928. Class 35.
Slands Manufacturing Company, New York, N. Y. Coats, topcoats, overcoats, etc. 247,495; Sept. 25; Serial No. 263,352; published July 3, 1928. Class 39.
Smith Brothers, Inc., Poughkeepsie, N. Y. Cough syrup. 247,418; Sept. 25; Serial No. 261,396; published June 26, 1928. Class 6.
Smith, Carroll Dunham, Pharmacal Co., New York, N. Y. Suppositories and ointment. 247,278; Sept. 25; Serial No. 255,774; published July 10, 1928. Class 6.
Société Anonyme pour Tous Appareillages Mécaniques, Levallois-Perret, France. Apparatus for delivering measured quantities of liquid. 247,263; Sept. 25; Serial No. 267,396; published July 17, 1928. Class 26.
Societe Parisienne des Produits de Beaute Ganna Walska, Paris, France. Perfumes, eau de Cologne, etc. 247,277; Sept. 25; Serial No. 256,058; published July 10, 1928. Class 6.
Southern Coffee Mills, Limited, New Orleans, La. Roasted and ground coffee, coffee and chicory, tea, and spices. 247,324; Sept. 25; Serial No. 251,996; published Sept. 13,1927. Clas 46.
Speidel Bros., Providence, R. I. Bracelets, chains, etc. 247,333; Sept. 25; Serial No. 262,941; published July 17, 1928. Class 28.
Srebroff, Charles M., doing business as Radio Engineering Laboratories, Long Island City, N. Y. Condensers, inductors, panels, etc. 247,272; Sept. 25; Serial No. 257,713; published July 17, 1928. Class 21.
Stakover Company, The. (See Zallio, John B.)
Standard Oil Company of New York, New York, N. Y. Refined petroleum. 71,320; renewed Nov. 17, 1928.
Standard Oil Company of New York, New York, N. Y. Refined petroleum. 71,565; renewed Dec. 1, 1928.
Star Bottling Co. (See Raef, William S.)
Stehlisilks Corporation, New York, N. Y. Silk piece goods. 247,455/6; Sept. 25; Serial Nos. 265,072–3; published July 17, 1928. Class 42.
Stern Brothers, New York, N. Y. Neckwear, suits, coats, dresses, etc. 247,475; Sept. 25; Serial No. 260,966; published July 3, 1928. Class 39.
Stop Remedy Co. (See Drucker, Nathan.)
Strayer, Daniel H., Venice, Calif. Waterproof boxes and receptacles worn or carried by sportsmen, hunters, etc. 247,470; Sept. 25; Serial No. 264,617; published July 10, 1928. Class 2.
Style Dress Co., Inc., The, New York, N. Y. Dresses. 247,523–4; Sept. 25. Class 39.
Superior Paper Products Company, Carnegie, Pa. Corrugated-paper shipping containers. 247,445; Sept. 25; Serial No. 265,996; published July 17, 1928. Class 2.
Superla Laboratories, Inc., Chicago, Ill. Polish or gloss. 247,299; Sept. 25; Serial No. 264,923; published July 10, 1928. Class 16.
Susquehanna Silk Mills, New York, N. Y. Silk piece goods. 247,387; Sept. 25; Serial No. 266,897; published July 17, 1928. Class 42.
Sweetheart Baking Co. (See Rouzone, Michele.)
Technical Color and Chemical Works. (See Greenbaum, Harry L.)
Teichman, A. S., Greensboro, N. C. Dress shirts. 247,339; Sept. 25; Serial No. 262,430; published July 3, 1928. Class 39.
Templar Watch Co. (See Helbein-Stone Company, Inc.)
Thau, Charles K., doing business as The Laura Hair Novelty Co., New York, N. Y. Sanitary napkins. 247,403; Sept. 25; Serial No. 265,739; published July 10, 1928. Class 44.
Thomas, Vincent B., assignor to Harriet Hubbard Ayer, Inc., New York, N. Y. Face cream. 71,516; renewed Dec. 1, 1928.
Thorp, Donald, Rutherford, N. J. Partially-printed laundry lists. 247,352; Sept. 25; Serial No. 248,206; published July 10, 1928. Class 37.
Throatex Laboratories. (See Hurt, Wilbur T.)
Tiffany & Company, New York, N. Y. Shopping bags, chatelaine bags, suitcases, etc. 247,207; Sept. 25; Serial No. 267,094; published July 17, 1928. Class 3.
Tilden Produce Company, St. Paul, Minn. Butter, eggs, and cheese. 247,357; Sept. 25; Serial No. 242,356; published Oct. 11, 1927. Class 46.
Tokalon Chemical Corporation, New York, N. Y. Face creams, complexion creams, etc. 247,414; Sept. 25; Serial No. 239,277; published June 19, 1928. Class 6.
Toledo Watch Company, Inc., New York, N. Y. Watches, clocks, and watch and clock movements. 247,521; Sept. 25. Class 27.
Tredwell, Lillie, (Kreipe), Chicago, Ill. Coats, dresses, and millinery. 247,334; Sept. 25; Serial No. 262,916; published July 3, 1928. Class 39.
Tur Hermanos, Richmond, Va., and New York, N. Y. Licorice. 247,217; Sept. 25; Serial No. 266,636; published July 10, 1928. Class 6.
Uncas Manufacturing Company, Providence, R. I. Key rings, chain fasteners, etc. 247,216; Sept. 25; Serial No. 266,694; published July 17, 1928. Class 28.
Union City Milling Co., Union City, Mich. Wheat and self-rising flour. 247,281; Sept. 25; Serial No. 255,142; published Jan. 10, 1928. Class 46.
United Drug Company, Boston, Mass. Medicinal preparation. 247,285; Sept. 25; Serial No. 265,077; published June 19, 1928. Class 6.
United Grape Products, Inc., Buffalo, N. Y. Grape syrup. 247,453; Sept. 25; Serial No. 265,176; published July 17, 1928. Class 45.
Universal Dental Company, Philadelphia, Pa. Artificial teeth. 247,437; Sept. 25; Serial No. 265,817; published July 17, 1928. Class 44.
Vining, Augustus G., Atlanta, Ga. Prophylactic rubber articles. 247,176; Sept. 25; Serial No. 265,591; published July 17, 1928. Class 44.
Virginia Metal Manufacturing Co., Roanoke, Va. Metal culvert pipe. 247,447; Sept. 25; Serial No. 265,998; published July 10, 1928. Class 18.
Wagner, Günther, Hanover, Germany. Water colors, oil colors. 247,504; Sept. 25; Serial No. 263,570; published July 10, 1928. Class 16.
Warrensburg Canning Co., Warrensburg, Ill. Canned corn. 247,537; Sept. 25. Class 46.
Washington Planograph Company, Inc., The Washington, D. C. House organ. 247,267; Sept. 25; Serial No. 267,328; published July 17, 1928. Class 38.
Way-Life Laboratories. (See Wilhelm John.)
Weaver, Clark E., doing business as The Dor Vent Co., Kansas city, Mo. Ventilating hinges for doors, etc. 247,312; Sept. 25; Serial No. 266,340; published July 17, 1928. Class 13.
Weigl Furniture Company, Chicago, Ill. Davenport beds. 247,194; Sept. 25; Serial No. 265,179; published July 17, 1928. Class 32.
Well, Henry, Needle Art Corp., New York, N. Y. Fabric stamped for embroidery and tapestry patts. 247,493; Sept. 25; Serial No. 263,522; published July 3, 1928. Class 40.
Western States Farmers Exchange and Honey Drew Mills. (See Simpson, Fred W.)
Weyer, George H., St. Joseph, Mo. Hair tonic. 247,236; Sept. 25; Serial No. 263,846; published July 10, 1928. Class 6.
Whelan, James F., Philadelphia, Pa. Night table and nursery lamps. 247,473; Sept. 25; Serial No. 266,697; published July 17, 1928. Class 21.
White, Loring Q., Company, Brockton, to L. Q. White Shoe Company, Bridgewater, Mass., successor. Leather boots and leather shoes. 67,126; renewed Jan. 14, 1928.
White Tar Company of New Jersey, Inc., The, Kearny, N. J. Candles. 247,369; Sept. 25; Serial No. 263,639; published July 17, 1928. Class 15.
Whitehead Bros., Riverside, Calif. Eggs. 247,432; Sept. 25; Serial No. 253,614; published Oct. 4, 1927. Class 46.
Whorton Pharmacal Company, Gadsden, Ala. Medicinal preparations. 247,507; Sept. 25; Serial No. 262,831; published June 26, 1928. Class 6.
Wiesenfeld, Louis, doing business as Gold Star Novelty Co., New York, N. Y. Garment clothing bags. 247,526; Sept 25. Class 2.
Wilhelm, John, doing business as Way-Life Laboratories, Chicago, Ill. Pharmaceutical preparation. 247,175; Sept. 25; Serial No. 265,597; published July 10, 1928. Class 6.
Williams, Adrianus, Hardin, Mont. Medicine for piles. 247,377; Sept. 25; Serial No. 264,401; published June 19, 1928. Class 6.
Williams, Peter K., Columbus, Ohio. Wash mitten. 247,205; Sept. 25; Serial No. 267,173; published July 17, 1928. Class 42.
Wilson, Roy M., doing business as The Sha-Vex Co., Burlingame, Calif. Chemical formula in tubes. 247,398; Sept. 25; Serial No. 265,869; published June 26, 1928. Class 6.
Windsor Shirt & Blouse Co., The. (See Saltry, Max.)
Wingate Chemical Co. Limited, The, Montreal, Canada. Effervescing saline laxative. 72,211; renewed Jan. 5, 1929.
Wirth, Cyrillus, Bettendorf and Davenport, Iowa. Pharmaceutical preparation. 247,246; Sept. 25; Serial No. 254,087; published July 10, 1928. Class 6.
Witz, Moritz H., assignor to American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Hats and caps. 72,644–5; renewed Feb. 9, 1929.
Womack, Henry B., doing business as Birmingham Grinding Works, Birmingham, Ala. Razors and razor blades. 247,449; Sept. 25; Serial No. 266,069; published July 17, 1928. Class 23.
Woodward, Baldwin & Co., New York, N. Y. Coverlets. 247,336; Sept. 25; Serial No. 262,784; published July 1, 1928. Class 42.

Zallio, John B., doing business as The Stakover Company, Chicago, Ill. Aluminum restaurant-service dish covers. 247,218; Sept. 25; Serial No. 266,570; published July 17, 1928. Class 13.
Zalud-Kaufman Co. Inc., New York, N. Y. Dresses and gowns. 247,240; Sept. 25; Serial No. 264,341; published July 3, 1928. Clas 39.
Zewiske, Harold S., doing business as Baby Calculator Sales Company, Chicago, Ill. Calculators. 247,450; Sept. 25; Serial No. 266,114; published July 17, 1928. Class 26.
Zysman, Isidore, doing business as Silwo Silk Co., New York, N. Y. Silk and silk and cotton and silk and wool mixture fabrics. 247,204; Sept. 25; Serial No. 267,175; published July 17, 1928. Class 42.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Buckingham, G. R., McFarland, Calif. Pied Piper. For Fresh Grapes. 34,607; Sept. 25.
Eastwood, Wm., & Son Co., Rochester, N. Y. Eastwood. For Men's, Women's, and Children's Shoes of Leather, Rubber, Cotton, Silk, Linen, Satin, Mohair, Wool, Straw, Paper, and Fibre. 34,608; Sept. 25.
Florida Chemical Company, Miami, Fla. Tex-Ant. For Ant Poison. 34,609; Sept. 25.
Fox, Frances, Laboratories, Incorporated, Ridgewood, N. J. Frances Fox Almond-Olive Soap for Hair & Skin. For Soap. 34,610; Sept. 25.
General Foods Company, Gloucester, Mass. Haddock. For Dressed, Usually Frozen, Sea Foods. 34,611; Sept. 25.
Hepp, Herbert L., doing business as Le Grand Laboratories, Chicago, Ill. Le Grand's Silk Armor. For Chemical Product for Treating Articles Made of Silk. 34,612; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Smart Shocs. For Boxes. 34,613; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. England Brothers. For Boxes. 34,614; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Beautiful Shoes. For Boxes. 34,615; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. The Long Wear Shoe Company. For Boxes. 34,616; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Louis Pizitz. For Boxes. 34,617; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Seidels. For Boxes. 34,618; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Courteous Service. For Boxes. 34,619; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Good Shoes. For Boxes. 34,620; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Lady Roda Shoes. For Boxes. 34,621; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Caheen Bros. Inc. For Boxes. 34,622; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Style Creators. For Boxes. 34,623; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Imperial Shoe Store. For Boxes. 34,624; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Better Footwear. For Boxes. 34,625; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Maker of Fine Shoes. For Boxes. 34,626; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Quality Shoes. For Boxes. 34,627; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Women's and Children's Shoes. For Boxes. 34,628; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Vanity Fair. For Boxes. 34,629; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Quality Footwear. For Boxes. 34,630; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Fine Footwear. For Boxes. 34,631; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Meadors. For Boxes. 34,632; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Rose Marie Slipper Shop. For Boxes. 34,633; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. French Maid. For Boxes. 34,634; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Ansonia Bootery. For Boxes. 34,635; Sept. 25.
Hoague-Sprague Corporation, Lynn, Mass. Cinderella. For Boxes. 34,636; Sept. 25.
Le Grand Laboratories. (See Hepp, Herbert L.)
Maillard, Henry, Inc., Long Island City, N. Y. Maillard's Black Devils. For Candy. 34,637; Sept. 25.
Meyer, H. H., Packing Company, The, Cincinnati, Ohio. Partridge Tomato Catsup. For Tomato Catsup. 34,638; Sept. 25.
Poterek, Val. W., & Sons, Chicago, Ill. Valpo. For Cigars. 34,639; Sept. 25.
P R Cleaner Co., New York, N. Y. P R Cleaner for Dainty Hands. For Cleaners for Pots and Pans. 34,640; Sept. 25.
Seaport Coffee Co., Inc., Houston, Tex. Camper. For Coffee. 34,641; Sept. 25.
Seaport Coffee Co., Inc., Houston, Tex. Toastmaster. For Coffee. 34,642; Sept. 25.
Snow, Virginia, Elgin, Ill. Colonel Bogey's Tee Cups. For Golf Tees. 34,643; Sept. 25.
Thomas, Reginald C., Brooklyn, N. Y. Out-O. For a Combination Ash Tray, Cigar and Cigarette Extinguisher. 34,644; Sept. 25.
Under Commercial Company, The, Cleveland, Ohio. Cat's Me-Ow Cup Cakes. For Cup Cakes. 34,645; Sept. 25.
Wilcox, Cecil W., Kalamazoo, Mich. Wilcox Foot Balm. For Foot Powder. 34,646; Sept. 25.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. To Clients of My Paris Establishment. For Venetian Toilet Preparations. 11,235; Sept. 25.
Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. They go From Miss Arden's to Buckingham Palace. For Venetian Toilet Preparations. 11,234; Sept. 25.
Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. These are Skipping Days. For Venetian Toilet Preparations. 11,236; Sept. 25.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. It's Fair Sailing—Once You've Chosen Camels. For Cigarettes. 11,237; Sept. 25.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Personally, I Smoke for Pleasure. For Cigarettes. 11,238; Sept. 25.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Come On—Take Me Up. For Tobacco. 11,239; Sept. 25.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Closer Than a Tatooed Anchor. For Tobacco. 11,240; Sept. 25.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. If You Smoke For Pleasure—And That's What Made This Cigarette Famous. For Cigarettes. 11,241; Sept. 25.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Read The Truth. For Cigarettes. 11,242; Sept. 25.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. It's The Favorite When Smoking Is Recognized as A Pleasure. For Cigarettes. 11,243; Sept. 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A. M. Motor Co., The, Clinton, Ind. Fuel for internal-combustion engines. 258,616; Sept. 25. Class 15.
A.-G. Gea (Farmaceutisk-Kemisk Fabrik), Copenhagen, Denmark. Pharmaceutical preparations for the treatment of gonorrhea. 269,666; Sept. 25. Class 6.
Ackerman Door Interviewer Corp., New York, N. Y. Metal door wickets and grilles. 269,215; Sept. 25. Class 13.
Acme Shoe Manufacturing Company, Chicago, Ill. Children's shoes. 269,440; Sept. 25. Class 39.
Adensite Co., Inc., New York, N. Y. Chemical compound in crystal form. 269,816; Sept. 25. Class 12.
Aeronautical Products Corporation, Naugatuck, Conn. Internal-combustion engines and parts thereof. 270,734; Sept. 25. Class 23.
Aeschbach, F., S. A., Aarau, Switzerland. Baking stoves. 267,106; Sept. 25. Class 34.
African & Eastern Trading Co., Incorporated, New York, N. Y. Dates. 270,364; Sept. 25. Class 46.
Albers Bros. Milling Co., San Francisco, Calif. Cake and pastry flour. 271,015; Sept. 25. Class 46.
Alberta Candy Co., San Francisco, Calif. Candy. 270,949; Sept. 25. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alfeld, Clarence E., doing business as Lakeside Products Company, Chicago, Ill. Malt syrup. 270,566; Sept. 25. Class 46.
Allen, Edgar, & Co. Limited, Sheffield, England. Steel. 271,023; Sept. 25. Class 14.
Altman, B., & Co., New York, N. Y. Dry goods. 269,758; Sept. 25. Class 42.
Altruline Company, The. (See Havener, Laura.)
American Cone & Pretzel Company, Philadelphia, Pa. Pie, cake, and ice-cream cones. 269,884; Sept. 25. Class 46.
American Fertilizing Company, Norfolk, Va. Fertilizers. 270,162; Sept. 25. Class 10.
American Implement Company, Newark, N. J. Hedge clippers. 270,702; Sept. 25. Class 23.
American Laundry Machinery Company, The, Norwood Station, Cincinnati, Ohio. Ironing machines. 269,272; Sept. 25. Class 24.
American Products Company, The, Cincinnati, Ohio. Soaps, shaving cream and soap, etc. 252,635; Sept. 25. Class 4.
Amtorg Trading Corporation, New York, N. Y. Matches. 270,869; Sept. 25. Class 9.
Anchor Drug Co., Sacramento, Calif. Blood purifier with cod-liver oil. 268,570; Sept. 25. Class 6.
Antiseptic Products Company, The, Denver, Colo. Protective dressing for wounds and sores. 269,383; Sept. 25. Class 6.
Arby Products Company, The, New York, N. Y. Soap. 264,941; Sept. 25. Class 4.
Armour and Company, Chicago, Ill. Soap. 269,629; Sept. 25. Class 4.
Asher Manufacturing Company, Irvington, N. J. Cast-metal cylinders and extractors. 269,819; Sept. 25. Class 24.
Ayer-Tite Products Corporation, Philadelphia, Pa. Liquid asbestos-fibre cement. 268,339; Sept. 25. Class 12.
B-H Electrical Laboratories. (See Kovar, Joseph B.)
Baird Television Development Company, Limited, London, England. Apparatus for recording and reproducing views, scenes, etc. 263,194–5; Sept. 25. Class 26.
Bakst, Max, doing business as Strobak Laboratories, New York, N. Y. Pharmaceutical preparation for dandruff and loss of hair. 264,413; Sept. 25. Class 6.
Baxter, H. C., & Bro., doing business as H. C. Baxter Bros. Co., Baxter Bros. Co., and Snowflake Canning Co., Brunswick, Me. Canned vegetables. 269,821; Sept. 25. Class 46.
Beautext Company, San Francisco, Calif. Painters' decorating materials. 269,505; Sept. 25. Class 16.
Berne Manufacturing Company, Berne, Ind. Dress and flannel shirts. 270,624; Sept. 25. Class 39.
Bis-Ark Company. (See Throgmorton, Charles S.)
Blabon, George W., Company, The, Philadelphia, Pa. Hard-surfaced floor covering. 270,819; Sept. 25. Class 20.
Bond Foundry and Machine Company, Manheim, Pa. Steel casters. 270,276; Sept. 25. Class 13.
Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. 266,352; Sept. 25. Class 39.
Bresnick, Carl S., New York, N. Y. Razors, shears, scissors, etc. 270,689; Sept. 25. Class 23.
Bryant, Ernest G., Glendale, Calif. Hair-waving liquid. 271,064; Sept. 25. Class 6.
Buchman, L., Co., Inc., Brooklyn, N. Y. Pillows and cushions. 269,619; Sept. 25. Class 32.
Burrough Brothers Manufacturing Company, Cleveland, Ohio, and Baltimore, Md. Gastrointestinal antiseptic. 267,529; Sept. 25. Class 6.
Bush, W. J., and Company, Limited, London, England. Substances used as food or as ingredients of food. 267,350; Sept. 25. Class 46.
Butler Paper Corporations, Chicago, Ill. Bond paper. 269,277; Sept. 25. Class 37.
Cahill, Laura S., doing business as Crowning Glory Manufacturing Company, Roanoke, Va. Preparation for use in growing hair. 268,530; Sept. 25. Class 6.
Cairns, Patrick, doing business as Wyoming Malt and Hops Supply Co., Philadelphia, Pa. Malt extract. 268,207; Sept. 25. Class 46.
Cameron, Wm., & Co., Inc., Waco, Tex. Furniture. 249,836; Sept. 25. Class 32.
Camp Manufacturing Company, Franklin, Va. Lumber. 269,825; Sept. 25. Class 12.
Cape Ann Isinglass Company, Boston, Mass. Unprepared isinglass. 269,083; Sept. 25. Class 1.
Capital Paper Company, Indianapolis, Ind. Toilet paper. 266,711; Sept. 25., Class 37.
Carr, Carl C., Lakewood, Cleveland, Ohio. Fabric and leather and fabric gloves. 269,182; Sept. 25. Class 39.
Celanese Corporation of America, New York, N. Y. Fabrics in the piece. 271,376; Sept. 25. Class 42.
Cheltenham Knitting Co., Philadelphia, Pa. Underwear. 269,509; Sept. 25. Class 39.
Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 268,079; Sept. 25. Class 42.
Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 271,166; Sept. 25. Class 42.
Chryson's, Inc., Los Angeles, Calif. Stationery. 269,087; Sept. 25. Class 37.
Clark Poultry Research Laboratories, Inc., Cleveland, Ohio. Insecticides. 263,640; Sept. 25. Class 6.
Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, etc. 270,370; Sept. 25. Class 28.
Colca-Cookie Corporation, Brooklyn, N. Y. Cookies. 271,066; Sept. 25. Class 46.
Collier, Charles V., doing business as The Pynoil Company, St. Petersburg, Fla. External preparation used as a healing antiseptic for skin irritations, etc. 266,126; Sept. 25. Class 6.
Colonial Bead Co. Inc., New York, N. Y. Ornamental pins, brooches, etc. 269,719; Sept. 25. Class 28.
Congoleum-Nairn, Inc., Kearny, N. J. Cork-moulding blankets. 269,090; Sept. 25. Class 50.
Continental Roofing & Manufacturing Co., The, Baltimore, Md. Distilled asphalt, asphalt felt, etc. 244,044; Sept. 25. Class 12.
Cook, Arch L., doing business as Great Northern Glove Company, Bluffton, Ind. Gloves. 268,681; Sept. 25. Class 39.
Cook, Tobias G., Minneapolis, Minn. Ladies' and women's hats. 260,426; Sept. 25. Class 39.
Crime Club, Inc., The, Garden City, N. Y. Publications. 263,930; Sept. 25. Class 38.
Crown Medicine Company. (See Reed, Thomas.)
Crowning Glory Manufacturing Company. (See Cahill, Laura S.)
Dairy Maid Confectionery Company, Philadelphia, Pa. Candy. 262,212; Sept. 25. Class 46.
Ditto, Incorporated, Chicago, Ill. Paper. 254,269; Sept. 25. Class 37.
D'Ollier, Henry, jr., Bridgeport, Conn. Electric connectors, sockets, etc. 264,026; Sept. 25. Class 21.
Donaldson Company, Inc., St. Paul, Minn. Air cleaners for internal-combustion engines. 270,917–9; Sept. 25. Class 23.
Dubin, Joseph, doing business as Malt Age Publishing Company, Chicago, Ill. Periodical. 271,298; Sept. 25. Class 38.
Duff, P., & Sons, Inc., Pittsburgh, Pa. Evaporated milk. 270,372; Sept. 25. Class 46.
Du Pont Rayon Company, Buffalo, N. Y. Cellulose-acetate yarns, threads, and filaments. 270,831; Sept. 25. Class 43.
Du Pont Rayon Company, Buffalo, N. Y. Cellulose-acetate yarns, threads, and filaments. 270,920; Sept. 25. Class 43.
Durand Shoe Co., Boston, Mass. Shoes. 269,646; Sept. 25. Class 39.
Earnshaw Knitting Company, Newton, Mass. Children's and infants' underwear and undergarments. 270,472; Sept. 25. Class 39.
Eddy, Newell A., Bay City, Mich. Trestle tables, settees, end tables, etc. 255,552; Sept. 25. Class 32.
Edison Electric Appliance Company, Chicago, Ill. Electric domestic appliances. 251,658; Sept. 25. Class 21.
Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquers, lacquer enamels, varnishes, etc. 270,833–4; Sept. 25. Class 16.
Elliott Core Drilling Company, Los Angeles, Calif. Core drills and rotary drilling bits. 262,071; Sept. 25. Class 23.
Ells, George F., doing business as Ells at Fargo, Fargo, N. Dak. Plastic material for making artificial dentures. 270,120; Sept. 25. Class 44.
Em-It-Products Company, Snyder, Tex. Salad dressings. 270,696; Sept. 25. Class 46.
Etchison Hat Co., Inc., Richmond, Va. Hats and caps. 267,543; Sept. 25. Class 39.
Evrard & Fichet, Paris, France. Corsets, corselets, girdles, etc. 260,560; Sept. 25. Class 39.
Ezon Manufacturing Co., Racine, Wis. Brake dressing. 269,282; Sept. 25. Class 4.
Fairchild Bros. & Foster, New York, N. Y. Extract of the spleen. 271,175; Sept. 25. Class 6.
Fairchild Company, Chicago, Ill. Magazine articles. 240,075; Sept. 25. Class 38.
Fischer, Carl, Inc., New York, N. Y. Wood-wind, brass, and reed musical instruments and parts thereof. 263,312; Sept. 25. Class 36.
Ford Motor Company, Fordson, Detroit, Mich. Automobile body floor mats. 270,528; Sept. 25. Class 50.
Fowler's Medicated Fruits, Paris, Tenn. Medicine. 267,412; Sept. 25. Class 6.
Franck, Clemence, San Francisco, Calif. Powder puffs. 270,924; Sept. 25. Class 29.
Frankel's, Isaac, Sons, Wilkes-Barre, Pa. Coffee, spices, canned fruits, etc. 253,749; Sept. 25. Class 46.
French, R. T., Company, The, Rochester, N. Y. Herbs, juniper berries, senna, etc. 270,700; Sept. 25. Class 6.
Fuller, W. P., & Co., San Francisco, Calif. Glass. 256,111; Sept. 25. Class 33.
Fuller, W. P., & Co., San Francisco, Calif. Glass. 257,977; Sept. 25. Class 33.
Gambrill Grain Products Co., The, Baltimore, Md. Malt-compound powder. 269,452; Sept. 25. Class 46.
Garber, S., & Sons, Brooklyn, N. Y. Cottonseed salad oil, vinegar, and mustard. 263,649; Sept. 25. Class 46.
Gebr. Graf., Dagmersellen, Switzerland. Cheese of Swiss origin. 270,328; Sept. 25. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Georgia Chemical Works, Augusta, Ga. Fertilizers. 270,181; Sept. 25. Class 10.
Geraghty, Laurence F., Montgomery, Ala. Cigars. 269,285; Sept. 25. Class 17.
Gertner, Morris H., doing business as Gertner Malt Company, Columbus, Ohio. Malt syrup. 270,883; Sept. 25. Class 46.
"Gervais." (See Gross, Oscar A.)
Gestotone Company. (See Reed, Thomas.)
Gilmore Oil Company, Los Angeles, Calif. Gasoline, kerosene, lubricating oil, etc. 269,113; Sept. 25. Class 15.
Ginsberg, I., doing business as Guarantee Sheet Metal Specialty Co., Brooklyn, N. Y. Metal and sheet-metal articles. 270,123; Sept. 25. Class 32.
Glahnsohn Manufacturing Company, Glendale, Long Island, N. Y. Cheese slicers. 270,407; Sept. 25. Class 23.
Glaser, Crandell Co., Chicago, Ill. Picklelike product. 270,418; Sept. 25. Class 46.
Gleaner Combine Harvester Corporation, Independence, Mo. Combined harvester, thresher, and separator. 268,036; Sept. 25. Class 23.
Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets, slumber nets, and sport nets. 270,331; Sept. 25. Class 42.
Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets, slumber nets, and sport nets. 270,333; Sept. 25. Class 42.
Goody Nut Shops, Detroit, Mich. Salted nuts and nuts. 260,009; Sept. 25. Class 46.
Gotham Silk Hosiery Co. Inc., New York, N. Y. Hosiery. 239,579; Sept. 25. Class 39.
Governor and Company of Adventurers of England Trading into Hudson's Bay, London, England. Furs not made up for wear. 265,901; Sept. 25. Class 1.
Gra-Car Ltd. (See Hietmann, John A., assignor.)
Great Northern Glove Company. (See Cook, Arch L.)
Great Stuff Products Company. (See Lee, Chris W.)
Great West Sales Corporation, Chicago, Ill. Malt syrups. 270,025; Sept. 25. Class 46.
Gross, Oscar A., doing business as "Gervais," New York, N. Y. Face and talc powder, lip sticks, perfumes, etc. 267,193; Sept. 25. Class 6.
Gruen Watch Company, The, Time Hill, Cincinnati, Ohio. Watches. 268,095; Sept. 25. Class 27.
Guarantee Sheet Metal Specialty Co. (See Ginsberg, I.)
Guittard Chocolate Co., San Francisco, Calif. Chocolate and cocoa and chocolate coating. 251,832; Sept. 25. Class 46.
Gulf Vegetable & Fruit Company, Inc., Weslaco, Tex. Fresh fruits. 269,523; Sept. 25. Class 46
Gumption Products Company, The. (See Rauh, Elmer.)
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 271,248; Sept. 25. Class 42.
Hairoleum Company, Union City, N. J. Hair tonic or preparation. 270,126; Sept. 25. Class 6.
Hall & Ruckel, Inc., Brooklyn, N. Y. Depilatory powder and cream. 271,184; Sept. 25. Class 6.
Halle, Phil M., doing business at Phil M. Halle & Son, Memphis, Tenn. Coats, suits, and dresses, etc. 262,167; Sept. 25. Class 39.
Halowax Corporation, New York, N. Y. Stencils and paper therefor. 269,843; Sept. 25. Class 37.
Hanover Cordage Company, Hanover, Pa. Hemp twine. 271,252; Sept. 25. Class 7.
Hanover Cordage Company, Hanover, Pa. Twine. 271,253; Sept. 25. Class 7.
Hanover Cordage Company, Hanover, Pa. White fibre twines. 271,254; Sept. 25. Class 7.
Hare Mfg. Co., Philadelphia, Pa. Electric neckwear pressers. 270,590; Sept. 25. Class 21.
Harris, Davis & Co., Nashville, Tenn. Hosiery, fabric and leather gloves, etc. 266,466; Sept. 25. Class 39.
Havener, Laura, doing business as The Altruline Company, Chillicothe, Ohio. Antiseptic powder. 271,118; Sept. 25. Class 6.
Hays-Fischer Manufacturing Company, Fort Worth, Tex. Fan-pulley pins. 257,411; Sept. 25. Class 23.
Hengerer, William, Company, The, Buffalo, N. Y. Gloves. 242,004; Sept. 25. Class 39.
Henry & Henry, Incorporated, Buffalo, N. Y. Cleansing and washing powder. 270,081; Sept. 25. Class 4.
Hercules Powder Company, Wilmington, Del. Dynamite. 264,804; Sept. 25. Class 9.
Hess, Goldsmith & Co., Inc., New York, N. Y. Silk, cotton, rayon, wool, etc. 270,378; Sept. 25. Class 42.
Hickey-Freeman Co., Rochester, N. Y. Men's suits, topcoats, and overcoats. 270,426; Sept. 25. Class 39.
Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Boys' dress shirts, work shirts, collars, etc. 268,440; Sept. 25. Class 39.
Hiller Bros. and Hiller, New York, N. Y. Coats. 269,237; Sept. 25. Class 39.
Hobbs, William W., doing business as The Sudanette Company, New Bedford, Mass. Sudan cotton cloth in the piece. 267,709; Sept. 25. Class 42.
Hollings-Smith Co., Orangeburg, N. Y. Medicine. 270,483; Sept. 25. Class 6.
Home-Garden Publishing Co. (See Shield, Harold J.)
Hunton & Hoxie Co., Inc., Boston, Mass. Letterheads. 270,027; Sept. 25. Class 37.
Hy-Nap Chemical Company, New York, N. Y. Pharmaceutical preparation. 268,546; Sept. 25. Class 6.
India Tire and Rubber Company, Akron, Ohio. Pneumatic tires. 258,125; Sept. 25. Class 35.
India Tire and Rubber Company, Akron, Ohio. Pneumatic tire. 258,126; Sept. 25. Class 35.
International Agricultural Corporation, New York, N. Y. Fertilizers. 270,427; Sept. 25. Class 10.
International Fire Equipment Corporation, West New Brighton, N. Y. Portable hand fire-extinguishing apparatus. 270,746; Sept. 25. Class 23.
Iscberland, Frederick E., Flint, Mich. Tonic for dressing the hair. 271,258; Sept. 25. Class 6.
Jail Bird Paint Remover Co., Fort Wayne, Ind. Paint remover. 268,376; Sept. 25. Class 16.
Jauregui, Francisco, and Luis Lancelotti, Buenos Aires, Argentina. Serum for treating syphilis. 258,028; Sept. 25. Class 6.
Jellerson-Rafter Company, Norway, Me. Boots and shoes. 271,050; Sept. 25. Class 39.
Kansas Mill & Elevator Company, The, Arkansas City, Kans. Wheat flour. 269,471; Sept. 25. Class 46.
King Candy Co., also doing business as Southern Candy Co., Fort Worth, Tex. Bulk candy. 271,187; Sept. 25. Class 46.
Kings River Fruit Association, Minkler, Calif. Fresh deciduous fruits. 262,716; Sept. 25. Class 46.
Kovar, Joseph B., doing business as B-H Electrical Laboratories, Benton Harbor, Mich. Electric sadiron. 262,613; Sept. 25. Class 21.
Lakeside Products Company. (See Alfeld, Clarence E.)
Lalance & Grosjean Mfg. Co., New York and Woodhaven, N. Y. Enameled and sheet-metal wares. 267,712; Sept. 25. Class 13.
Landauer & Co., London, England. Canned apricots, pears, and peaches. 266,998; Sept. 25. Class 46.
Lanschey, H., Inc., New York, N. Y. Antisiccative inking materials. 247,322; Sept. 25. Class 11.
Lanschey, H., Inc., New York, N. Y. Inking materials for reviving and increasing pliability. 247,323; Sept. 25. Class 11.
Lanschey, H., Inc., New York, N. Y. Inking materials for increasing pliability. 247,325; Sept. 25. Class 11.
Lanschey, H., Inc., New York, N. Y. Antiabsorption inking materials. 247,326; Sept. 25. Class 11.
Lanschey, H., Inc., New York, N. Y. Antiabsorption inking materials. 247,327; Sept. 25. Class 11.
Lanschey, H., Inc., New York, N. Y. Dryers for inks. 247,329; Sept. 25. Class 11.
Lanschey, H., Inc., New York, N. Y. Inking materials. 247,330; Sept. 25. Class 11.
Larche, Lucien E., Stamford, Tex. Shelving for stores. 271,131; Sept. 25. Class 32.
Lee, Chris W., doing business as Great Stuff Products Company, Minneapolis, Minn. Metal polish and top dressing. 270,709; Sept. 25. Class 4.
Lesher, Whitman & Co., Inc., New York, N. Y. Uniform serge. 269,357; Sept. 25. Class 42.
Lewel Mfg. Co. Inc., New York, N. Y. Bandeaux, brassières, girdles, and corsettes. 260,896; Sept. 25. Class 39.
Liddle, John, Co., Inc., Glens Falls, N. Y. Canned fruits and vegetables, pepper, etc. 266,861; Sept. 25. Class 46.
Limestone Products Corporation of America, Newton, N. J. Fertilizers. 270,037; Sept. 25. Class 10.
Limestone Products Corporation of America, Newton, N. J. Fertilizers. 270,342; Sept. 25. Class 10.
Lionel Trading Co. Inc., New York, N. Y. Empty vanity cases. 267,367; Sept. 25. Class 2.
Long, Ella M., doing business as Mrs. S. F. Long, Chapel Hill, N. C. Preparation for treating roup in chickens. 263,220; Sept. 25. Class 6.
Lummis & Company, Philadelphia, Pa. Salted peanuts. 270,886; Sept. 25. Class 46.
Lüscher & Bömper A.-G., Fahr, Germany. Plaster bandages. 267,979; Sept. 25. Class 44.
Macy, R. H., & Co., Inc., New York, N. Y. Candies. 254,331; Sept 25. Class 46.
Macy, R. H., & Co., Inc., New York, N. Y. Chinaware. 270,299; Sept. 25. Class 30.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods, silk and wool and silk and rayon mixed piece goods. 264,434; Sept. 25. Class 42.
Malt Age Publishing Company. (See Dubin, Joseph.)
Martin, Eben F., Lynn, Mass. Boots, shoes, and slippers. 268,553; Sept. 25. Class 39.
Marvel Oil Burner Company, Inc., The, New York, N. Y. Oil burners. 268,050; Sept. 25. Class 34.
Master, Aaron, Brooklyn, N. Y. Board games. 269,905; Sept. 25. Class 22.
Master Metal Products, Inc., Buffalo, N. Y. Paper bags. 270,194; Sept. 25. Class 2.
McEwen, Irving, Omaha, Nebr. Hairdressings, tonic, pomade, and oil. 239,880; Sept. 25. Class 6.
McGraw-Shaw Company, Chicago, Ill. Magazine. 262,369; Sept. 25. Class 38.
Meyer, H. H., Packing Company, The, Cincinnati, Ohio. Tomato catsup. 270,383; Sept. 25. Class 46.
Midway Chemical Company, Chicago, Ill. Dust mops and polish mops. 269,795; Sept. 25. Class 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Milford Canning Company, The, Milford, Ill. Canned corn. 270,136; Sept. 25. Class 46.
Miller, I., & Sons, Inc., Long Island City, N. Y. Compact powders and rouges, lip sticks, face lotion, etc. 257,691; Sept. 25. Class 6.
Milwaukee Saddlery Company, Milwaukee, Wis. Harness. 262,233; Sept. 25. Class 3.
Minneapolis-Honeywell Regulator Company, Wabash, Ind., and Minneapolis, Minn. Device to limit the temperature of the air in the casing of a warm-air furnace. 267,376; Sept. 25. Class 34.
Mission Hosiery Mills, Los Angeles, Calif. Stockings. 270,675; Sept. 25. Class 39.
Morley, I. & R., London, England. Men's drawers, trousers, shirts, etc. 264,041; Sept. 25. Class 39.
Municipal Shoe Co., Inc., New York, N. Y. Shoes. 269,197; Sept. 25. Class 39.
Muscle Malt Products, Chicago. (See Trefny, James J.)
National Ammonia Company, Inc., Philadelphia, Pa. Ammonia. 265,283; Sept. 25. Class 6.
National Carbon Company, Inc., New York, N. Y. Liquid compound for the prevention of freezing and boiling of water in radiators. 266,824; Sept. 25. Class 6.
National Fireworks Distributing Co. of Arizona, Boston, Mass. Fireworks. 259,251; Sept. 25. Class 9.
Nev Chemical Co., Brooklyn, N. Y. Ointment and salve. 268,556; Sept. 25. Class 6.
New York Mackintosh Clothing Company, New York, N. Y. Raincoats. 266,474; Sept. 25. Class 39.
News Messenger Publishing Co., Marshall, Tex., and Shreveport, La. Periodical. 270,936; Sept. 25. Class 38.
Onondaga Silk Co., Inc., Syracuse and New York, N. Y. Silk fabrics in the piece. 269,979; Sept. 25. Class 42.
Oshkosh Trunk Company, The, Oshkosh, Wis. Golf bags. 261,585; Sept. 25. Class 22.
Oxford Candy Corporation, Cambridge, Mass. Candy. 265,398; Sept. 25. Class 46.
Oxweld Acetylene Company, New York, N. Y. Oxygen-dispensing equipment for vaults, safes, and the like. 270,800; Sept. 25. Class 44.
Pacific Coast Syrup Co. (See Tea Garden Products Co.)
Packard, M. A., Company, Brockton, Mass. Boots and shoes. 268,558; Sept. 25. Class 39.
Parke, Davis & Company, Detroit, Mich. Emulsion of liquid petrolatum with agar for medicinal use. 269,252; Sept. 25. Class 6.
Paroubek, Blahoural A., Plainfield, N. J. Finger bandages. 269,854; Sept. 25. Class 44.
Penick & Ford, Ltd., New York, N. Y. Molasses. 270,199; Sept. 25. Class 46.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Stationery. 261,928; Sept. 25. Class 37.
Perfection Biscuit Company, Fort Wayne, Ind. Cocoanut macaroons. 271,078; Sept. 25. Class 46.
Plymouth Rock Candy Company, Boston, Mass. Chocolate, chocolate nut, and hard candies. 263,099; Sept. 25. Class 46.
Prior Laboratories, New York, N. Y. Toilet creams. 265,013; Sept. 25. Class 6.
Publicker Commercial Alcohol Co. of Delaware, Philadelphia, Pa. Pure ethyl alcohol. 268,937; Sept. 25. Class 49.
Purity Candy Company, Beaumont, Tex. Salted nuts. 271,196; Sept. 25. Class 46.
Pynoil Company, The. (See Collier, Charles V.)
Ranchers' Manufacturing Company, Pomona, Calif. Pumps and pump parts. 269,915; Sept. 25. Class 23.
Rapp Company, Inc., Atlanta, Ga. Metal pipe joints. 260,849; Sept. 25. Class 13.
Raub, Elmer, doing business as The Gumption Products Company, Dayton, Ohio. Soap with detergent properties. 264,199; Sept. 25. Class 4.
Reed, Thomas, doing business as Crown Medicine Company and Gestotone Company, Atlanta, Ga. Medicine. 267,721; Sept. 25. Class 6.
Registrar and Transfer Company, New York, N. Y. Periodical. 271,315; Sept. 25. Class 38.
Rhodes, James H., & Company, Chicago, Ill. Lump pumice stone. 269,798; Sept. 25. Class 1.
Richards, Maurice, New York, N. Y. Finger rings. 269,483; Sept. 25. Class 28.
Richter, F. Ad., & Co. of New York, Brooklyn, N. Y. Liniment. 268,308; Sept. 25. Class 6.
Rietmann, John A., assignor to Gra-Car Ltd., Chicago, Ill. Toilet articles. 258,786; Sept. 25. Class 6.
Roesch, Alfred, Rahway, N. J. Rakes, hoes, shovels, etc. 269,037; Sept. 25. Class 23.
Roesch Enamel Range Company, Belleville, Ill. Coal, gas, and combination ranges and stoves. 268,392; Sept. 25. Class 34.
Roth Bros., Wheeling, W. Va. Canned vegetables and fruits. 270,802; Sept. 25. Class 46.
Roth, Goldman Co., Inc., New York, N. Y. Piece goods. 271,087; Sept. 25. Class 42.
Saint-Didier Automobiles, Paris, France. Automobiles and motor trucks, bicycles, etc. 267,724; Sept. 25. Class 19.
Schaefer-Johnston Co., New York, N. Y. Tubularized blank book. 261,913; Sept. 25. Class 37.
Schafer, George, Cigar Company, Baltimore, Md. Cigars. 270,882; Sept. 25. Class 17.
Schlachbt, Herman, New York, N. Y. Watchcases. 268,940; Sept. 25. Class 27.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 264,536; Sept. 25. Class 44.
Scott, Rufus W., Company, New York, N. Y. Hosiery. 266,756; Sept. 25. Class 39.
Selberling Latex Products Company, Akron and Barberton, Ohio. Druggists' rubber sundries. 270,443–4; Sept. 25. Class 44.
Selberling Latex Products Company, Akron and Barberton, Ohio. Druggists' rubber sundries. 270,513–14; Sept. 25. Class 44.
Selberling Latex Products Company, Akron and Barberton, Ohio. Druggists' rubber sundries. 270,517; Sept. 25. Class 44.
Seneca Oil Works, Warren, Pa. Gasoline, kerosene, etc. 253,552; Sept. 25. Class 15.
Service Grocer Company, Inc., Detroit, Mich. Seeds used as foods. 264,388; Sept. 25. Class 46.
Seville Studios, Incorporated, Cleveland, Ohio. Metal novelties. 270,652; Sept. 25. Class 32.
Sgobel & Day, Inc., New York, N. Y. Fresh apples, grapes, plums, etc. 270,653; Sept. 25. Class 46.
Shapiro, Ira J., New York, N. Y. Clocks. 269,920; Sept. 25. Class 27.
Sharp & Dohme, Incorporated, Baltimore, Md. Salt used as a dietary substitute for table salt. 270,727; Sept. 25. Class 6.
Shield, Harold J., doing business as the Home-Garden Publishing Co., San Francisco, Calif. Periodical. 270,728; Sept. 25. Class 38.
Showers Brothers Company, Bloomington, Ind. Household furniture. 267,515; Sept. 25. Class 32.
Silz Packing Company, Inc., New York, N. Y. Pickled pigs' foot tasties, sliced beef, Vienna sausage, etc. 263,883; Sept. 25. Class 46.
Smiley, William A., Mount Vernon, Wash. Ointment or liniment used in treating boils, etc. 262,940; Sept. 25. Class 6.
Smith, Addie E., doing business as Smith Bros., Berkeley and Oakland, Calif. Preparation for use in the treatment of dyspepsia. 269,209; Sept. 25. Class 6.
Smith & Peters. (See Wunderle, Philip.)
Snail-A-Tor Laboratory. (See Taylor, Laura V.)
Snowflake Canning Co. (See Baxter, H. C., & Bro.)
Societa Anonima Distillerie G. Ramazzotti Fu Ausano, Milan, Italy. General tonic. 268,469; Sept. 25. Class 6.
Solomon Mfg. Co., St. Louis, Mo. Aprons. 269,488; Sept. 25. Class 39.
Southern Candy Co. (See King Candy Co.)
Southern Coal & Coke Company, The, Cincinnati, Ohio. Coal. 257,257; Sept. 25. Class 1.
Southern Manufacturing Company, Athens, Ga. Cotton cloth piece goods. 268,708; Sept. 25. Class 42.
Spray Coffee and Spice Company, The, Denver, Colo. Roasted coffee mixture, teas, spices, etc. 265,404; Sept. 25. Class 46.
Standard Growers Exchange, Orlando, Fla. Fresh citrus fruits. 268,402; Sept. 25. Class 46.
Standard Textile Products Company, The, New York, N. Y. Oilcloth and oilcloth table covers. 271,089; Sept. 25. Class 20.
Stein, I. A., Galveston, Tex. Beverages and syrups and compounds for making the same. 270,981; Sept. 25. Class 45.
Stern Brothers, New York, N. Y. Caps, hats, shoes, slippers, etc. 268,567–8; Sept. 25. Class 39.
Stewart Battery Co., Chicago, Ill. Radiocondensers and electron tubes and battery-charging rectifiers. 261,153; Sept. 25. Class 21.
Strobak Laboratories. (See Bakst, Max.)
Sudanette Company, The. (See Hobbs, William W.)
Tangard, Einar, doing business as Hans Tangard & Son, Chelsea, Mass. Metallic caves hangers. 270,060; Sept. 25. Class 13.
Taylor, Laura V., doing business as Snail-A-Tor Laboratory, Los Angeles, Calif. Poison. 270,400; Sept. 25. Class 6.
Tea Garden Products Co., also doing business as Pacific Coast Syrup Co., San Francisco, Calif. Combination of refiner's syrup. 269,812; Sept. 25. Class 46.
Thinc Products, Inc., New York, N. Y. Astringents, astringent cerates, hand creams, etc. 267,616; Sept. 25. Class 6.
Throgmorton, Charles S., doing business as Bia-Ark Company, Brinkley, Ark. Medicine. 269,161; Sept. 25. Class 6.
Torn, L., Los Angeles, Calif. Salted nuts and nuts in their natural state and honey-dried fruits. 268,006; Sept. 25. Class 46.
Trefny, James J., doing business as Muscle Malt Products, Chicago, Ill. Malt extract. 270,062; Sept. 25. Class 46.
Trye-Me Bottling Company of Washington, D. C., Washington, D. C. Ginger ale. 269,872; Sept. 25. Class 45.
Tubbs, Chapin F., Calistoga, Calif. Fresh grapes. 269,999; Sept. 25. Class 46.
Turnbull, Samuel P., doing business as Wekiwa Chemical Co., Moultrie, Ga. Insecticide. 266,062; Sept. 25. Class 6.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Twentieth Century Rayon Textiles, Inc., New York, N. Y. Knitted fabrics. 270,897; Sept. 25. Class 42.
Union Oil Company of California, Los Angeles, Calif. Lubricating oils, waxes, and greases. 268,718–14; Sept. 25. Class 15.
Union Oil Company of California, Los Angeles, Calif. Lubricating oils, waxes, and greases. 268,717; Sept. 25. Class 15.
Union Oil Company of California, Los Angeles, Calif. Lubricating oils, waxes, and greases. 268,719; Sept. 25. Class 15.
Union Wire Rope Corporation, Tulsa, Okla. Wire rope, wire cables, and high-carbon wire. 270,807; Sept. 25. Class 7.
United Publishing Company, Kansas City, Mo. Periodical. 270,946; Sept. 25. Class 38.
U. S. Ring Traveler Company, Providence, R. I. Ring travelers. 261,154; Sept. 25. Class 23.
Universal Mills, Fort Worth, Tex. Food for hogs. 269,875; Sept. 25. Class 46.
Vulcan Match Co., Inc., New York, N. Y. Matches. 271,460–1; Sept. 25. Class 9.
Washburn Company, The, Worcester, Mass. Strainers. 270,102; Sept. 25. Class 13.
Washington Canners Co-Operative, Vancouver, Wash. Canned fruits. 270,983; Sept. 25. Class 46.
Weidlich Bros. M'f'g. Co., The, Bridgeport, Conn. Gold and silver plated novelties. 270,308; Sept. 25. Class 28.
Weiss, Willhelm Company, Inc., New York, N. Y., and Passaic, N. J. Piece goods. 268,659–65; Sept. 25. Class 42.
Weiss, Willhelm Company, Inc., New York, N. Y., and Passaic, N. J. Piece goods. 269,925; Sept. 25. Class 42.
Wekiwa Chemical Co. (See Turnbull, Samuel P.)
Wettersol Dyestuff Corporation, New York, N. Y. Dyestuffs and intermediates. 268,014; Sept. 25. Class 6.
Wetterwald & Pfister Company, Inc., New York, N. Y. Dyestuffs and intermediates. 269,560; Sept. 25. Class 6.
White Luggage Co., Inc., New York, N. Y. Hatboxes. 268,524; Sept. 25. Class 3.
Windsor Soap Co., Inc., Buffalo, N. Y. Castile soap. 262,010; Sept. 25. Class 4.
Wolverine Tube Company, Detroit, Mich. Metal tubing. 269,705; Sept. 25. Class 13.
Worumbo Manufacturing Company, Bath, Me. Woolen goods. 258,610; Sept. 25. Class 42.
Wunderle, Philip, doing business as Smith & Peters, Philadelphia, Pa. Candy. 270,526; Sept. 25. Class 46.
Wyoming Malt and Hops Supply Co. (See Sairns, Patrick.)
Zion's Co-Operative Mercantile Institution, Salt Lake City, Utah. Clothing. 241,365; Sept. 25. Class 39.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Bag linings for garbage cans, Sanitary refill paper. L. Marston. 247,306; Sept. 25; Serial No. 266,470; published July 10, 1928.
Bags, Garment clothing. L. Wiesenfeld. 247,526; Sept. 25.
Bags, Paper. Sheridan-Clayton Paper Co. 247,185; Sept. 25; Serial No. 265,413; published July 17, 1928.
Boxes and merchandise folders, Paper and cloth. Albrecht-Bechtold, Inc. 247,438; Sept. 25; Serial No. 265,822; published July 10, 1928.
Boxes and receptacles worn or carried by sportsmen, hunters, etc., Waterproof. D. H. Strayer. 247,470; Sept. 25; Serial No. 264,617; published July 10, 1928.
Boxes, crates, and cases, All kinds of. Interstate Cotton Oil Refining Co. 247,179; Sept. 25; Serial No. 265,547; published July 10, 1928.
Boxes, Wooden cigar. Leschey Myers Cigar Box Co. 247,309–10; Sept. 25; Serial Nos. 266,432–3; published July 10, 1928.
Containers, Corrugated-paper shipping. Superior Paper Products Company. 247,445; Sept. 25; Serial No. 265,996; published July 17, 1928.
Jars, Vacuum. Eskimo Pie Corporation. 247,430; Sept. 25; Serial No. 265,629; published July 10, 1928.

CLASS 3.

Bags, chatelaine bags, suitcases, etc., Shopping. Tiffany & Company. 247,207; Sept. 25; Serial No. 267,094; published July 17, 1928.
Harness, Jointed clips for. Midland Company. 247,237; Sept. 25; Serial No. 263,963; published July 17, 1928.
Trunks and hand luggage. Oshkosh Trunk Company. 247,361; Sept. 25; Serial No. 229,979; published July 3, 1928.

CLASS 4.

Abrasive papers and abrasive cloths. American Glue Company. 247,518; Sept. 25.
Cleaner, Type. Jarrett Type Cleaner, Inc. 247,490; Sept. 25; Serial No. 263,605; published July 17, 1928.
Creams, Shoe-polish. Geo. J. Kelly, Inc. 247,364; Sept. 25; Serial No. 224,515; published July 17, 1928.
Powder, Washing. Procter & Gamble Company. 247,282; Sept. 25; Serial No. 255,132; published July 10, 1928.
Soap and shampoo-soap solutions. Lockwood, Brackett Co. 247,356; Sept. 25; Serial No. 242,956; published July 17, 1928.
Soap chips. J. T. Kenny & Co. 71,712; renewed Dec. 15, 1928.
Soaps and shaving soap, Toilet and bath. L. Lelong. 247,274; Sept. 25; Serial No. 257,166; published July 17, 1928.

CLASS 6.

Alterative for internal use. J. A. Seitz. 70,451; renewed Sept. 1, 1928.
Anæsthetic, Local. Perdentin Laboratories, Inc. 247,381; Sept. 25; Serial No. 266,744; published July 10, 1928.
Analgesic sedative and hypnotic. H. A. Metz Laboratories, Inc. 247,513; Sept. 25; Serial No. 264,470; published June 19, 1928.
Antiseptic solution for sore throat, catarrh, etc. W. T. Hurt. 247,448; Sept. 25; Serial No. 266,030; published July 10, 1928.
Astringents, astringent cerates, beauty creams, etc. H. H. Bertram. 247,287–95; Sept. 25; Serial Nos. 264,248–56; published June 19, 1928.
Astringents, astringent cerates, bleach creams, etc. H. H. Bertram. 247,296–7; Sept. 25; Serial Nos. 264,946–7; published June 19, 1928.
Astringents, astringent cerates, beauty creams, etc. H. H. Bertram. 247,298; Sept. 25; Serial No. 264,945; published June 19, 1928.
Astringents, beauty creams, dry rouges, etc. H. H. Bertram. 247,286; Sept. 25; Serial No. 264,957; published June 26, 1928.
Balsam, Lung. Sha-O-Chem Company. 247,327; Sept. 25; Serial No. 249,609; published July 10, 1928.
Capsules for treatment of headache. E. F. Herman. 247,401; Sept. 25; Serial No. 265,842; published June 26, 1928.
Carbon dioxide, Solidified. Eskimo Pie Corporation. 247,471; Sept. 25; Serial No. 264,572; published July 10, 1928.
Chemical formula in tubes. R. M. Wilson. 247,398; Sept. 25; Serial No. 265,869; published June 26, 1928.
Citrate of magnesia. N. J. Segal. 247,386; Sept. 25; Serial No. 266,891; published July 10, 1928.
Composition employed in the acid treatment of metals or metal products. Rubber Service Laboratories Company. 247,410; Sept. 25; Serial No. 265,570; published June 26, 1928.
Compound used as a vulcanization accelerator in the curing of rubber articles. Rubber Service Laboratories Company. 247,409; Sept. 25; Serial No. 265,571; published June 26, 1928.
Compounds, Chemical. Rubber Service Laboratories Company. 274,407–8; Sept. 25; Serial Nos. 265,572–3; published June 26, 1928.
Cosmetics. M. E. Rowden. 247,417; Sept. 25; Serial No. 261,456; published June 26, 1928.
Cough syrup. Smith Brothers, Inc. 247,418; Sept. 25; Serial No. 261,396; published June 26, 1928.
Cream, Face. V. B. Thomas. 71,516; renewed Dec. 1, 1928.
Cream, Face and body. L. E. Robinson. 247,301; Sept. 25; Serial No. 264,913; published June 26, 1928.
Creams, complexion creams, etc., Face. Tokalon Chemical Corporation. 247,414; Sept. 25; Serial No. 239,277; published June 19, 1928.
Digestive tablets. A. Kechijian. 247,522; Sept. 25.
Dyes. E. N. Abbott. 247,372; Sept. 25; Serial No. 266,774; published July 10, 1928.
Eau de Cologne water, perfumery, hair tonics, shampoo, etc. P. P. Mülhens. 247,416; Sept. 25; Serial No. 261,801; published June 19, 1928.
Emmenagogue. H. C. Jenkins. 247,384; Sept. 25; Serial No. 266,085; published June 26, 1928.
Eye water. R. Moulthrop. 71,030; renewed Oct. 27, 1928.
Fluxes and welding and brazing compounds in the nature of a flux. Simplex Flux & Solder Company of America. 247,385; Sept. 25; Serial No. 266,052; published June 26, 1928.
Fluxes, Tinning. Grasselli Chemical Company. 247,209; Sept. 25; Serial No. 267,043; published July 10, 1928.
Grain-treating materials. Gas Grain Treater Co. 247,485; Sept. 25; Serial No. 258,524; published July 10, 1928.
Hair oil. O. H. Henderson. 247,227; Sept. 25; Serial No. 266,201; published June 26, 1928.
Laxative and alkalinizing saline salt, cough syrup, etc. Lehrer Brothers. 247,511; Sept. 25; Serial No. 262,570; published June 19, 1928.
Laxative and remedy. Pansy Compound Co. 71,628; renewed Dec. 8, 1928.

Laxative, Effervescing saline. Wingate Chemical Co. Limited. 72,211; renewed Jan. 5, 1929.
Laxative, Fruit. Golden Hind Laxative Company. 247,348; Sept. 25; Serial No. 261,312; published July 10, 1928.
Laxative tablets. Ayer Company. 247,502; Sept. 25; Serial No. 264,135; published June 19, 1928.
Licorice. Tur Hermanos. 247,217; Sept. 25; Serial No. 266,636; published July 10, 1928.
Liniment. Prigler Company. 247,353; Sept. 25; Serial No. 248,055; published July 10, 1928.
Lip stick. Helena Rubinstein, Inc. 247,397; Sept. 25; Serial No. 265,904; published June 26, 1928.
Lotion, Face and skin. A. Cierpilkowski. 247,180; Sept. 25; Serial No. 265,521; published June 19, 1928.
Magnesium hydroxide. McKesson & Robbins, Incorporated. 247,510; Sept. 25; Serial No. 262,753; published June 19, 1928.
Medicinal oil, Antiseptic. Gregory Medicine Co. 72,486; renewed Jan. 26, 1929.
Medicinal preparation. M. Grey. 247,242; Sept. 25; Serial No. 264,491; published July 10, 1928.
Medicinal preparation. M. Kivowitz. 247,402; Sept. 25; Serial No. 265,796; published June 26, 1928.
Medicinal preparation. United Drug Company. 247,285; Sept. 25; Serial No. 265,077; published June 19, 1928.
Medicinal preparations. Whorton Pharmacal Company. 247,507; Sept. 25; Serial No. 262,831; published June 26, 1928.
Medicinal salts. City of Carlsbad. 71,351; renewed Nov. 17, 1928.
Medicinal wine tonics. American Druggists Syndicate. 247,300; Sept. 25; Serial No. 264,937; published June 26, 1928.
Medicine. N. Drucker. 247,483; Sept. 25; Serial No. 259,224; published July 10, 1928.
Medicine. Kurasiewicz & Pludowski. 247,393–4; Sept. 25; Serial Nos. 266,034–5; published June 26, 1928.
Medicine. Letac Chemical Co. 247,441; Sept. 25; Serial No. 265,974; published July 10, 1928.
Medicine for colds, grippe, etc. G. W. Mathews. 247,512; Sept. 25; Serial No. 262,727; published June 26, 1928.
Medicine for piles. A. Willems. 247,377; Sept. 25; Serial No. 264,401; published June 19, 1928.
Oil of cedarwood. George C. Brown & Company. 247,284; Sept. 25; Serial No. 265,033; published June 26, 1928.
Ointment, Greaseless. Beeman's Laboratory, Inc. 247,516; Sept. 25.
Pepsin compound, Lactated. Beeman's Laboratory, Inc. 247,515; Sept. 25.
Perfumes, eau de Cologne, toilet waters, etc. Societe Parfesienne des Produits de Beaute Ganna Walska. 247,277; Sept. 25; Serial No. 256,058; published July 10, 1928.
Perfumes, face creams, powders, etc. G. M. Franks. 247,422; Sept. 25; Serial No. 259,906; published June 19, 1928.
Perfumes, perfume extracts, bath salts, etc. D'Orsay Perfumeries Corporation. 247,431; Sept. 25; Serial No. 253,316; published June 19, 1928.
Pharmaceutical preparation. J. Wilhelm. 247,175; Sept. 25; Serial No. 265,597; published July 10, 1928.
Pharmaceutical preparation. C. Wirth. 247,246; Sept. 25; Serial No. 254,067; published July 10, 1928.
Photographic developer. Photo Chemical Company. 247,400; Sept. 25; Serial No. 265,855; published June 26, 1928.
Pomade, Hair. My-Ro-La Manufacturing Company. 247,389; Sept. 25; Serial No. 261,978; published June 26, 1928.
Powder, Talcum. Palmolive-Peet Company. 247,509; Sept. 25; Serial No. 262,769; published June 19, 1928.
Powder, talcum powder, cold cream, etc., Face. M. B. Oeser. 247,423; Sept. 25; Serial No. 259,689; published June 26, 1928.
Preparation for stimulating metabolism. Heinrich Höfer Gesellschaft m. b. H. 247,223; Sept. 25; Serial No. 266,246; published June 26, 1928.
Preparation for stimulating metabolism. Heinrich Höfer Gesellschaft m. b. H. 247,225; Sept. 25; Serial No. 266,247; published June 26, 1928.
Preparation for the relief of constipation. J. G. Munsell. 247,245; Sept. 25; Serial No. 254,642; published July 10, 1928.
Preparation for the treatment of textile fibres. Hygrolit Incorporated. 247,396; Sept. 25; Serial No. 265,906; published June 26, 1928.
Preparation of hypophosphites. Fellows Medical Manufacturing Company. 247,503; Sept. 25; Serial No. 263,758; published June 26, 1928.
Preparation used in the treatment of pellagra, sore mouth, etc. W. C. Everett & Company. 247,193; Sept. 25; Serial No. 265,203; published July 10, 1928.
Preparations for making effervescent drinks from powders. Floret Company. 247,302; Sept. 25; Serial No. 264,816; published June 26, 1928.
Preparations, hair tonics, toilet powders, etc. Chemisch-Pharmazeutische A. G. Bad Homburg. 247,390; Sept. 25; Serial No. 261,864; published June 26, 1928.
Purgatives. Knoll & Co. 70,640; renewed Sept. 22, 1928.
Quinine solutions, chemical preparations, etc. Chemisch-Pharmazeutische A. G. Bad Homburg. 247,415; Sept. 25; Serial No. 261,862; published June 26, 1928.
Repellent preparation. C. Schlesinger. 247,399; Sept. 25; Serial No. 265,850; published June 26, 1928.
Rock and rye with horehound and bitters. Pond's Bitters Company. 72,336; renewed Jan. 19, 1929.
Shampoo. P. S. Ellers. 247,425; Sept. 25; Serial No. 257,537; published June 19, 1928.
Shampoo, perfume, toilet water, etc., Cocoanut. Federal Distributors, Inc. 247,472; Sept. 25; Serial No. 264,510; published July 10, 1928.
Solvent, Drain-opening chemical. A. Kossman. 247,273; Sept. 25; Serial No. 257,479; published July 10, 1928.
Suppositories and ointment. Carroll Dunham Smith Pharmacal Co. 247,278; Sept. 25; Serial No. 255,774; published July 10, 1928.
Suppositories and salves and preparation to relieve itching, hair tonics, etc., Hemorrhoidal. Chemisch-Pharmazeutische A. G. Bad Homburg. 247,391; Sept. 25; Serial No. 261,863; published June 26, 1928.
Toilet cream, Demulcent. Luyties Pharmacal Company. 247,404; Sept. 25; Serial No. 265,669; published June 19, 1928.
Toilet water, cold cream, powder, etc. People's Drug Stores, Inc. 247,458; Sept. 25; Serial No. 265,010; published July 10, 1928.
Tonic, Bird. M. Anderson. 247,481; Sept. 25; Serial No. 259,612; published July 10, 128.
Tonic, Hair. G. H. Weyer. 247,236; Sept. 25; Serial No. 263,846; published July 10, 1928.
Vegetable and chemical compound, antiseptic, healing, and styptic. I. Mitchell. 247,383; Sept. 25; Serial No. 266,172; published June 26, 1928.

CLASS 7.

Articles consisting of a pressed paper tube. M. P. Geraghty. 247,192; Sept. 25; Serial No. 265,205; published July 17, 1928.

CLASS 9.

Matches, Book. E. F. Pabst. 247,329; Sept. 25; Serial No. 263,339; published May 29, 1928.
Rifles, shotguns, pistols, and revolvers. M. E. Johnson. 68,386; renewed Apr. 7, 1928.
Rifles, shotguns, pistols, and revolvers. M. E. Johnson. 68,389; renewed Apr. 7, 1928.

CLASS 10.

Fertilizer. A. B. Kensington. 247,435; Sept. 25; Serial No. 265,663; published July 10, 1928.
Lime, Agricultural. Gibsonburg Lime Products Company. 247,222; Sept. 25; Serial No. 266,525; published July 17, 1928.

CLASS 11.

Colors for shading inks, Dry. E. I. du Pont de Nemours and Company. 247,188; Sept. 25; Serial No. 265,322; published July 10, 1928.
Typewriter ribbons. Nelson-Elsmann Co. 247,380; Sept. 25; Serial No. 266,740; published July 17, 1928.

CLASS 12.

Asbestos, Prepared. J. W. Roberts, Limited. 70,939; renewed Oct. 20, 1928.
Metal, Expanded. Chess Brothers, The Central Expanded Metal Company. 72,061; renewed Dec. 29, 1928.

CLASS 13.

Aluminum restaurant-service dish covers. J. B. Zallio. 247,218; Sept. 25; Serial No. 266,570; published July 17, 1928.
Casing for oil-well use, Metal. American Steel Pipe & Tank Company. 247,534; Sept. 25.
Fixtures, China bathroom. C. H. Chamberlain. 247,371; Sept. 25; Serial No. 263,689; published July 10, 1928.
Hinges for doors, etc., Ventilating. C. E. Weaver. 247,312; Sept. 25; Serial No. 266,340; published July 17, 1928.
Metal, Articles made of base. Manning, Bowman & Co. 247,178; Sept. 25; Serial No. 265,553; published July 17, 1928.
Pipe, Metal culvert. Virginia Metal Manufacturing Co. 247,447; Sept. 25; Serial No. 265,998; published July 10, 1928.
Strainers, Sink. Master Metal Products Inc. 247,220; Sept. 25; Serial No. 266,584; published July 10, 1928.
Utensils, Aluminum kitchen. Montgomery Warw & Co. Incorporated. 247,486; Sept. 25; Serial No. 258,479; published July 17, 1928.
Wire fencing. Kokomo Steel & Wire Co. 247,320; Sept. 25; Serial No. 266,204; published July 10, 1928.

CLASS 15.

Candles. White Tar Company of New Jersey, Inc. 247,369; Sept. 25; Serial No. 263,630; published July 17, 1928.
Gasoline. Champlin Refining Company. 247,462; Sept. 25; Serial No. 264,871; published July 17, 1928.
Gasoline, kerosene, etc. H. A. Schmitt. 247,280; Sept. 25; Serial No. 255,683; published Jan. 31, 1928.
Oils. Hartol Products Corporation. 247,239; Sept. 25; Serial No. 264,303; published July 17, 1928.
Petroleum, Refined. Standard Oil Company of New York. 71,320; renewed Nov. 17, 1928.
Petroleum, Refined. Standard Oil Company of New York. 71,565; renewed Dec. 1, 1928.

CLASS 16.

Colors for shading paints, Dry. E. I du Point de Nemours and Company. 247,499; Sept. 25; Serial No. 265,323; published July 10, 1928.

Colors, oil colors, Artists' water. G. Wagner. 247,504; Sept. 25; Serial No. 263,570; published July 10, 1928.
Paint, Prepared enamel. Frank W. Dunne Co. 247,224; Sept. 25; Serial No. 266,797; published July 10, 1928.
Paint, Prepared enamel. Frank W. Dunne Co. 247,229; Sept. 25; Serial No. 266,802; published July 10, 1928.
Paints, paste paint, and paint colors. Everseal Manufacturing Co. Inc. 247,478; Sept. 25; Serial No. 260,219; published Jan. 27, 1928.
Paints, paste paints, and paint enamels. Frazer Paint Company. 247,500; Sept. 25; Serial No. 265,100; published July 10, 1928.
Plastic material. H. L. Greenbaum. 247,505; Sept. 25; Serial No. 263,316; published July 10, 1928.
Polish or gloss. Superia Laboratories, Inc. 247,299; Sept. 25; Serial No. 264,923; published July 10, 1928.
Polishing compound. G. E. Grossman. 247,405; Sept. 25; Serial No. 265,641; published July 10, 1928.
Varnish. Frank W. Dunne Co. 247,230; Sept. 25; Serial No. 266,806; published July 10, 1928.
Varnish. Frank W. Dunne Co. 247,388; Sept. 25; Serial No. 266,798; published July 10, 1928.

CLASS 17.

Cigars. Sidney J. Freeman & Sons. 247,241; Sept. 25; Serial No. 264,371; published July 17, 1928.

CLASS 19.

Bicycles. Shelby Cycle Company. 247,319; Sept. 25; Serial No. 266,220; published July 17, 1928.
Springs for automobile front coach seats. General Steel Products, Inc. 247,533; Sept. 25.

CLASS 20.

Linoleum and cork carpet. Congoleum-Nairn, Inc. 247,213; Sept. 25; Serial No. 266,914; published July 17, 1928.

CLASS 21.

Accessories, Automobile. Inter-State Auto Parts Co. 247,355; Sept. 25; Serial No. 243,313; published July 17, 1928.
Acousticons, interior communicating telephone systems, etc. Dictograph Products Corporation. 247,328; Sept. 25; Serial No. 249,514; published July 17, 1928.
Battery separators. E. P. Fay. 247,429; Sept. 25; Serial No. 253,877; published July 17, 1928.
Condensers, inductors, panels, etc. C. M. Srebroff. 247,272; Sept. 25; Serial No. 257,713; published July 17, 1928.
Electric fans, motors, polishing lathes, etc. Marathon Electric Manufacturing Company. 247,346; Sept. 25; Serial No. 261,445; published July 17, 1928.
Electric ranges. Great Western Stove Co. 247,439; Sept. 25; Serial No. 265,539; published July 17, 1928.
Electric sadirons, grills, toaster stoves, etc. Chicago Flexible Shaft Company. 247,210; Sept. 25; Serial No. 267,038; published July 17, 1928.
Electric wires and cables. General Cable Corporation. 247,436; Sept. 25; Serial No. 265,788; published July 17, 1928.
Electrical apparatus and supplies. Johns-Pratt Company. 71,259; renewed Nov. 10, 1928.
Lamps, Night table and nursey. J. F. Whelan. 247,473; Sept. 25; Serial No. 266,697; published July 17, 1928.
Radio parts and accessories. Polymet Manufacturing Corporation. 247,366; Sept. 25; Serial No. 197,450; published May 22, 1928.
Radio receiving apparatus and equipment. Pathfinder Radio Corporation. 247,362; Sept. 25; Serial No. 227,278; published July 20, 1926.
Radio receiving sets and antennæ and loud speakers, Portable. Helna Radio Corporation. 247,358; Sept. 25; Serial No. 239,983; published July 17, 1928.

CLASS 22.

Coaster wagons and scooters. Piggly Wiggly Corporation. 247,428; Sept. 25; Serial No. 251,081; published July 10, 1928.
Fishing tackle. F. E. Chester. 71,802; renewed Dec. 15, 1928.
Game. Parker Brothers Inc. 247,228; Sept. 25; Serial No. 266,878; published July 10, 1928.
Game. P. S. Price. 247,411; Sept. 25; Serial No. 265,560; published July 10, 1928.
Golf bags, golf-bag hoods, tennis-racket covers, etc. Brauer Bros. Inc. 247,427; Sept. 25; Serial No. 251,384; published July 10, 1928.
Golf balls. Bon-Dee Golf Ball Co. 247,496–8; Sept. 25; Serial Nos. 265,515–17; published July 10, 1928.

CLASS 23.

Bearings. Manhattan Rubber Mfg. Co. 247,341; Sept. 25; Serial No. 262,318; published July 17, 1928.
Machinery, Agricultural. Bateman Manufacturing Company. 68,826; renewed Apr. 28, 1928.
Machines, Fish cleaning, boning, and cutting, fish slicing, etc. Fisadco Limited. 247,477; Sept. 25; Serial No. 260,498; published July 17, 1928.
Motors, Outboard boat. Evinrude Motor Company. 247,189; Sept. 25; Serial No. 265,265; published July 17, 1928.
Pumps, Steam. Pulsometer Steam Pump Co. 72,170; renewed Jan. 5, 1929.
Razors and razor blades. H. B. Womack. 247,449; Sept. 25; Serial No. 266,069; published July 17, 1928.
Sprayers and spraying attachments. Hudson Manufacturing Co. 247,434; Sept. 25; Serial No. 265,647; published July 17, 1928.
Tools, Valve-reseating. Howser Valve Tool Manufacturing Co. 247,476; Sept. 25; Serial No. 260,889; published July 17, 1928.
Vending machines. Automatic Merchandizer Inc. 247,350; Sept. 25; Serial No. 248,950; published July 17, 1928.

CLASS 24.

Irons, ironing boards, steam pressing tables, etc., Steam pressing. Cannon Engineering Company. 247,451; Sept. 25; Serial No. 266,124; published July 17, 1928.
Washing machines, Laundry. Handi-Appliance Corporation. 247,433; Sept. 25; Serial No. 265,643; published July 10, 1928.

CLASS 25.

Locks. Bassett Metal Goods Company. 247,454; Sept. 25; Serial No. 265,086; published July 10, 1928.

CLASS 26.

Calculators. H. S. Zewiske. 247,450; Sept. 25; Serial No. 266,114; published July 17, 1928.
Cameras. Sears, Rosbuck and Co. 24,529; Sept. 25.
Cameras and picture-projecting machines. Q R S Company. 247,374; Sept. 25; Serial No. 266,749; published July 17, 1928.
Measured quantities of liquid, Apparatus for delivering. Société Anonyme pour Tous Appareillages Mécaniques. 247,263; Sept. 25; Serial No. 267,396; published July 17, 1928.

CLASS 27.

Clock cases. De Luxe Clock & Mfg. Co. 247,269; Sept. 25; Serial No. 258,169; published Jan. 17, 1928.
Clocks. Ansonia Clock Company. 247,211; Sept. 25; Serial No. 267,027; published July 17, 1928.
Watches. J. M. Plaut. 247,443; Sept. 25; Serial No. 265,983; published July 17, 1928.
Watches, clocks, and watch and clock movements. Toledo Watch Company. 247,521; Sept. 25.
Watches, Ladies' wrist. J. Engel. 247,215; Sept. 25; Serial No. 266,725; published July 17, 1928.
Watches, watchcases, and watch movements and parts of the same. Helbein-Stone Company. 247,378; Sept. 25; Serial No. 266,808; published July 17, 1928.
Watches, watchcases, watch movements, and parts thereof. Savoy Watch Co. 247,315; Sept. 25; Serial No. 266,272; published July 17, 1928.

CLASS 28.

Bracelets, chains, etc. Speidel Bros. 247,333; Sept. 25; Serial No. 262,941; published July 17, 1928.
Jewelry. Klebanoff & Grossman. 247,482; Sept. 25; Serial No. 259,450; published July 17, 1928.
Jewelry. O. Pennino. 247,243; Sept. 25; Serial No. 255,044; published July 17, 1928.
Jewelry. O. Pennino. 247,244; Sept. 25; Serial No. 255,025; published July 17, 1928.
Jewelry. Silbermann, Kohn & Wallenstein Inc. 247,480; Sept. 25; Serial No. 259,784; published July 17, 1928.
Pearls, necklaces, bracelets, etc. Cohn & Rosenberger, Inc. 247,214; Sept. 25; Serial No. 266,913; published July 17, 1928.
Pearls, necklaces, bracelets, etc. Cohn & Rosenberger, Inc. 247,307; Sept. 25; Serial No. 266,457; published July 17, 1928.
Pins, badges, charms, etc., Sorority. Alpha Delta Theta. 247,308; Sept. 25; Serial No. 266,451; published July 17, 1928.
Rings, bar pins, brooches, etc., Finger. S. Buchsbaum & Co. 247,342; Sept. 25; Serial No. 261,858; published July 17, 1928.
Rings, chain fasteners, etc., Key. Uncas Manufacturing Company. 247,216; Sept. 25; Serial No. 266,694; published July 17, 1928.
Rings, Finger. Shuttles Bros. & Lewis. 247,318; Sept. 25; Serial No. 266,221; published July 17, 1928.

CLASS 31.

Refrigerators. Norvell-Shapleigh Hardware Company. 70,705; renewed Sept. 29, 1928.
Refrigerators, refrigerator parts, etc. Servel, Inc. 247,444; Sept. 25; Serial No. 265,987; published July 10, 1928.

CLASS 32.

Beds, Davenport. Weigl Furniture Company. 247,194; Sept. 25; Serial No. 265,179; published July 17, 1928.
Chairs, tables, and rocking chairs, Children's. Buckstaff Company. 247,487–8; Sept. 25; Serial Nos. 258,458–9; published July 17, 1928.
Furniture, Wooden household. Johnson-Handley-Johnson Company. 247,344; Sept. 25; Serial No. 261,636; published July 17, 1928.

Metallic articles. Art Metal Construction Company. 247,247; Sept. 25.
Mirrors. S. E. Rauh. 247,373; Sept. 25; Serial No. 266,750; published July 17, 1928.

CLASS 33.

Glass. Blue Ridge Glass Corporation. 247,200–2; Sept. 25; Serial Nos. 267,228–30; published July 10, 1928.
Glass and glassware. Naamlooze Vennootschap Glasfabriek "Leerdam," V. H. Jeekel. 247,248; Sept. 25; Serial No. 267,899; published July 17, 1928.
Glass, Plate. Pittsburgh Plate Glass Company. 247,212; Sept. 25; Serial No. 266,952; published July 17, 1928.

CLASS 34.

Furnace, Gas heater. L. O. Cameron. 70,482; renewed Sept. 8, 1928.
Furnaces, Warm-air. Lucas Heating Systems, Inc. 247,360; Sept. 25; Serial No. 233,497; published July 10, 1928.
Lighters, Pocket friction cigar. M. E. Bernhardt Company. 247,321; Sept. 25; Serial No. 266,167; published July 10, 1928.
Lighters, Pyrophoric pocket. Napier Co. 247,322; Sept. 25; Serial No. 266,146; published July 17, 1928.
Ventilators, Adjustable louver window. Allen Auto Specialty Company. 247,532; Sept. 25.

CLASS 35.

Boots and reliners for pneumatic tires. J. C. Skinner. 247,367; Sept. 25; Serial No. 294,953; published July 17, 1928.
Packing, Sheet. Fitzgerald Manufacturing Company. 247,464; Sept. 25; Serial No. 264,815; published July 17, 1928.
Tires and inner tubes, Automobile. Corduroy Tire Company. 247,266; Sept. 25; Serial No. 267,353; published July 17, 1928.
Tires, Pneumatic vehicle. Pennsylvania Rubber Company of America. 247,262; Sept. 25; Serial No. 267,450; published July 17, 1928.

CLASS 36.

Banjos. Gibson, Inc. 247,382; Sept. 25; Serial No. 266,524; published July 17, 1928.
Clarinets and brass-wind musical instruments. H. Bettoney. 247,190; Sept. 25; Serial No. 265,253; published July 17, 1928.
Phonographs. Aluminum Specialty Co. 247,203; Sept. 25; Serial No. 267,179; published July 17, 1928.
Pianos. Paul G. Mehlin & Sons. 72,564; renewed Feb. 2, 1929.
Pianos and pianos with interior players. Jacob Doll & Sons. 70,137; renewed Aug. 4, 1928.
Pianos, player pianos, player actions, and parts thereof. Autopiano Company. 247,363; Sept. 25; Serial No. 226,706; published Apr. 27, 1926.
Talking machines. A. B. Salliger. 247,264; Sept. 25; Serial No. 267,391; published July 17, 1928.

CLASS 37.

Forms, memorandum pads, note paper, etc., Partially-printed. ABC Service. 247,479; Sept. 25; Serial No. 259,786; published July 17, 1928.
Laundry lists, Partially-printed. D. Thorp. 247,352; Sept. 25; Serial No. 248,206; published July 10, 1928.
Paper and envelopes, Writing. Rytex Company. 247,440; Sept. 25; Serial No. 265,857; published July 10, 1928.
Paperboard. Butterfield-Barry Company. 247,184; Sept. 25; Serial No. 265,424; published July 10, 1928.
Paper napkins. Daniels Manufacturing Company. 247,345; Sept. 25; Serial No. 261,609; published July 10, 1928.
Paper suitable for use in making artificial leather. Brown Company. 247,330; Sept. 25; Serial No. 263,254; published July 10, 1928.
Paper towels. Crown Willamette Paper Company. 247,311; Sept. 25; Serial No. 266,418; published July 10, 1928.
Papers, Printing, wrapping, writing, ledger, and bond. Minneapolis Paper Co. 72,375; renewed Jan. 19, 1929.

CLASS 38.

House organ. Jabez Burns & Sons, Inc. 247,235; Sept. 25; Serial No. 264,141; published July 10, 1928.
House organ. Washington Phonograph Company. 247,267; Sept. 25; Serial No. 267,328; published July 17, 1928.
Magazines. National Association of Stationary Engineers. 71,669; renewed Dec. 8, 1928.
Magazines, Illustrated monthly. North German Lloyd. 247,238; Sept. 25; Serial No. 264,253; published July 17, 1928.
Periodical. R. O. Bartells. 247,376; Sept. 25; Serial No. 266,781; published July 17, 1928.
Photo prints. Kennell-Ellis Studios. 247,465; Sept. 25; Serial No. 264,794; published July 17, 1928.
Posters or form letters and advertising literature. National Process Company. 247,368; Sept. 25; Serial No. 194,407; published July 10, 1928.
Publication. Midwest Publishing Co. 247,198; Sept. 25; Serial No. 267,266; published July 17, 1928.
Publication. National Provisioner, Inc. 247,261; Sept. 25; Serial No. 267,443; published July 17, 1928.

CLASS 39.

Apparel, Children's. Hyman & Kaplan. 247,335; Sept. 25; Serial No. 262,910; published June 26, 1928.
Blouses, shirts, and pajamas. M. Salitry. 247,527; Sept. 25.
Boots and shoes. Gregory & Read Company. 247,182; Sept. 25; Serial No. 265,475; published July 3, 1928.
Boots and shoes, Leather. Loring Q. White Company. 67,126; renewed Jan. 14, 1928.
Caps, household aprons, rubber gloves, slippers, etc., Bathing. Miller Rubber Company. 247,337; Sept. 25; Serial No. 262,671; published July 3, 1928.
Caps, scarfs, and sweaters. Bamberger-Reinthal Company. 247,276; Sept. 25; Serial No. 256,710; published July 3, 1928.
Clothing, Men's and boys'. S. Ginsberg Sons. 247,463; Sept. 25; Serial No. 264,819; published July 3, 1928.
Coats, dresses, and millinery. L. Tredwell (Kreipe). 247,334; Sept. 25; Serial No. 262,916; published July 3, 1928.
Coats, topcoats, overcoats, etc. Slands Manufacturing Company. 247,495; Sept. 25; Serial No. 263,352; published July 3, 1928.
Dresses. Style Dress Co. 247,523–4; Sept. 25.
Dresses and gowns. Zalud-Kaufmann Co. Inc. 247,240; Sept. 25; Serial No. 264,341; published July 3, 1928.
Garments, Combination. H. & W. Company. 247,402; Sept. 25; Serial No. 263,548; published July 3, 1928.
Gloves and mittens. Boss Manufacturing Company. 247,275; Sept. 25; Serial No. 256,997; published Jan. 31, 1928.
Hats and caps. M. H. Witz. 72,644–5; renewed Feb. 9, 1928.
Hats, Men's. Hudson Hat Manufacturing Co. Inc. 247,351; Sept. 25; Serial No. 248,410; published July 3, 1928.
Hats, Men's. Middle West Hat Mfg. Company. 247,232; Sept. 25; Serial No. 263,963; published July 3, 1928.
Hosiery. Bower & Kaufmann. 247,457; Sept. 25; Serial No. 265,031; published July 3, 1928.
Hosiery. Chas. Chipman's Sons. 70,129; renewed Aug. 4, 1928.
Hosiery. Chas. Chipman's Sons. 71,178; renewed Nov. 10, 1928.
Hosiery. Geo. E. Keith Company. 247,494; Sept. 25; Serial No. 263,476; published July 3, 1928.
Hosiery. H. Licht. 247,347; Sept. 25; Serial No. 261,319; published July 3, 1928.
Hosiery. Wm. T. Knott Company. 247,531; Sept. 25.
Lingerie. Signet Hosiery Company. 247,234; Sept. 25; Serial No. 264,206; published July 3, 1928.
Millinery. L. Bamberger & Company. 247,370; Sept. 25; Serial No. 263,850; published July 3, 1928.
Neckties. Gruber and Steinberg. 247,338; Sept. 25; Serial No. 262,456; published July 3, 1928.
Neckwear, scarfs, suits, dresses, etc. Stern Brothers. 247,475; Sept. 25; Serial No. 260,966; published July 3, 1928.
Raincoats. Newtowne Manufacturing Company. 247,459; Sept. 25; Serial No. 264,999; published July 3, 1928.
Robes, dressing gowns, lounge suits, etc. Lewis-Wise Co. Inc. 247,191; Sept. 25; Serial No. 265,222; published July 3, 1928.
Shirts, Dress. A. S. Teichman. 247,339; Sept. 25; Serial No. 262,430; published July 3, 1928.
Shoes. Farr Bros. Co. 247,187; Sept. 25; Serial No. 265,372; published July 3, 1928.
Shoes. Louis Halpern Shoe Company. 247,183; Sept. 25; Serial No. 265,437; published July 3, 1928.
Slickers, collars, pajamas, etc. Joseph Hordes, Inc. 247,354; Sept. 25; Serial No. 244,400; published July 3, 1928.
Suits and overcoats. B. B. Bernhardt. 247,525; Sept. 25.
Suits, coats, trousers, etc. Hahne & Company. 247,233; Sept. 25; Serial No. 264,231; published July 3, 1928.
Sweaters, sweater coats, and sweater suits. John E. Hanifen Company. 247,519; Sept. 25.
Trousers and lumberjacks, Men's. Norton Bros. and Morris. 247,528; Sept. 25.
Underwear for women and children, Rayon. W. T. Grant Company. 247,466; Sept. 25; Serial No. 264,081; published July 3, 1928.
Underwear, Men's athletic. A. S. Haight & Company. 247,279; Sept. 25; Serial No. 255,750; published July 3, 1928.

CLASS 40.

Buttons, buckles, bag frames, etc. Greenhill and Sons, Ltd. 247,325; Sept. 25; Serial No. 251,900; published July 10, 1928.
Fabrics stamped for embroidery and tapestry patts. Henry Weil Needle Art Corp. 247,493; Sept. 25; Serial No. 263,522; published July 3, 1928.
Fasteners, Pin. Rau Fastener Company. 247,843; Sept 25; Serial No. 261,649; published July 3, 1928.

Pins, Common and safety. Scovill Manufacturing Company. 247,305; Sept. 25; Serial No. 211,236; published July 3, 1928.
Rubber thread, Covered. Frank W. Gorse Co. 247,186; Sept. 25; Serial No. 265,379; published July 17, 1928.

CLASS 42.

Cotton duck. John Boyle & Company. 247,316; Sept. 25; Serial No. 266,237; published July 17, 1928.
Cotton piece goods. Carson Pirie Scott & Co. 247,257; Sept. 25; Serial No. 267,534; published July 17, 1928.
Coverlets. Woodward, Baldwin & Co. 247,336; Sept. 25; Serial No. 262,794; published July 10, 1928.
Fabrics. Cheney Brothers. 247,252–3; Sept. 25; Serial Nos. 267,747–8; published July 17, 1928.
Fabrics, Woven, knitted, netted, textile, and pile. Cheney Brothers. 247,249–51; Sept. 25; Serial Nos. 267,750–2; published July 17, 1928.
Handkerchief. Goldberg & Van Praag. 247,268; Sept. 25; Serial No. 258,226; published July 17, 1928.
Mitten, Wash. P. K. Williams. 247,205; Sept. 25; Serial No. 267,173; published July 17, 1928.
Rugs, Textile washable. M. H. Rogers, Inc. 247,206; Sept. 25; Serial No. 267,145; published July 17, 1928.
Silk and silk and cotton and silk and wool mixture fabrics. I. Zysman. 247,204; Sept. 25; Serial No. 267,175; published July 17, 1928.
Silk piece goods. Arnold Rosenfeld Silk Corporation. 247,195; Sept. 25; Serial No. 267,317; published July 10, 1928.
Silk piece goods. Stehlisilks Corporation. 247,455–6; Sept. 25; Serial Nos. 265,072–3; published July 17, 1928.
Silk piece goods. Susquehanna Mills. 247,387; Sept. 25; Serial No. 266,897; published July 17, 1928.
Silks in the piece. Duplex Silk Mills, Inc. 247,460; Sept. 25; Serial No. 264,971; published July 3, 1928.
Textiles of cotton. Lorraine Manufacturing Company of New York, Inc. 247,270; Sept. 25; Serial No. 257,987; published July 17, 1928.
Wool dress goods. F. Arnold. 247,491; Sept. 25; Serial No. 263,600; published July 10, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 247,313–14; Sept. 25; Serial Nos. 266,309–10; published July 17, 1928.

CLASS 44.

Arch supports. Scholl Mfg. Co. Inc. 247,514; Sept. 25; Serial No. 264,201; published July 10, 1928.
Belts, Electric Health appliance. I. Gussaroff. 247,440; Sept. 25; Serial No. 266,028; published July 17, 1928.
Lamps, Therapeutic. Sanitarium Equipment Company. 247,181; Sept. 25; Serial No. 265,503; published July 17, 1928.
Manicure sets, manicure implements, and parts thereof. Premier Cutlery, Inc. 247,375; Sept. 25; Serial No. 266,748; published July 17, 1928.
Medical and surgical instruments, apparatus, and parts thereof. E. F. Mahady Company. 247,283; Sept. 25; Serial No. 255,119; published July 17, 1928.
Medical bandages, bands, and belts, etc. A. Delubac. 247,406; Sept. 25; Serial No. 265,627; published July 10, 1928.
Prophylactic rubber articles. A. G. Vining. 247,176; Sept. 25; Serial No. 265,591; published July 17, 1928.
Sanitary napkins. C. K. Thau. 247,403; Sept. 25; Serial No. 265,739; published July 10, 1928.
Supporters, athletic supporters, and bandages, Wrist and ankle. A. J. Reach Company. 247,467; Sept. 25; Serial No. 264,653; published July 17, 1928.
Supports for the arches and other parts of the feet. Arrowsmith Manufacturing Company. 247,452; Sept. 25; Serial No. 248,270; published July 17, 1928.
Teeth, Artificial. Universal Dental Company. 247,437; Sept. 25; Serial No. 265,817; published July 17, 1928.
Telephonic apparatus and appliances and accessories. Oravox Ltd. 247,421; Sept. 25; Serial No. 260,843; published July 10, 1928.

CLASS 45.

Beverage and sirup and extract for making the same. W. S. Raef. 247,177; Sept. 25; Serial No. 265,562; published July 17, 1928.
Beverages. Dr. V. A. Avakian Company. 247,474; Sept. 25; Serial No. 265,609; published July 17, 1928.
Beverages, syrups and extracts for making the same. Nesbitt Fruit Products Inc. 247,535; Sept. 25.
Mineral waters, Natural carbonated. Birresborner Mineralbrunnen H. Lohr & Eylert. 71,326; renewed Nov. 17, 1928.
Syrup, Grape. United Grape Products, Inc. 247,458; Sept. 25; Serial No. 265,176; published July 17, 1928.

CLASS 46.

Apples, Fresh. Earl Fruit Company. 247,489; Sept. 25; Serial No. 255,494; published Feb. 21, 1928.
Bacon, Sliced. T. M. Sinclair & Co. Ltd. 247,196; Sept. 25; Serial No. 267,281; published July 17, 1928.
Biscuits. C. H. Elkes & Sons Limited. 247,281; Sept. 25; Serial No. 267,188; published July 10, 1928.
Biscuits. Peek, Frean & Co. 71,902; renewed Dec. 22, 1928.
Bread. M. Ronzone. 247,271; Sept. 25; Serial No. 267,762; published July 3, 1928.
Bread. Shellabarger Mills & Elevator Company. 247,206; Sept. 25; Serial No. 267,085; published July 17, 1928.
Bread and cereal products. Roman Meal Company. 247,197; Sept. 25; Serial No. 267,278; published July 17, 1928.
Bread, Pumpernickle. Jordan Foods Inc. 247,340; Sept. 25; Serial No. 262,404; published July 17, 1928.
Butter, eggs, and cheese. Tilden Produce Company. 247,357; Sept. 25; Serial No. 242,356; published Oct. 11, 1927.
Candy. Brody Novelty Candy Package Co. 247,199; Sept. 25; Serial No. 267,234; published July 17, 1928.
Candy. Margaret Burnham's Cottage Candles of The Pacific Coast. 247,530; Sept. 25.
Candy bars. Lincoln Chocolate and Confectionery Company. 247,326; Sept. 25; Serial No. 251,623; published July 17, 1928.
Canned corn. Portland Packing Co. 247,468; Sept. 25; Serial No. 264,652; published July 17, 1928.
Canned corn. Warrensburg Canning Co. 247,537; Sept. 25.
Canned fruits, vegetables, jellies, and fish. Mutual Stores, Inc. 247,520; Sept. 25.
Canned salmon. Deming & Gould Co. 247,255–6; Sept. 25; Serial Nos. 267,634–5; published July 17, 1928.
Cheese, canned pork and beans, canned salmon, etc. Libby, McNeill & Libby. 247,413; Sept. 25; Serial No. 244,452; published Nov. 1, 1927.
Chocolate, cocoa, fruit preserves, etc. Schokoladenfabrik Mauxion m. b. H. 247,412; Sept. 25; Serial No. 244,961; published July 10, 1928.
Chocolate in bar form. Automatic Merchandizer Inc. 247,349; Sept. 25; Serial No. 249,255; published July 17, 1928.
Coffee, chicory, teas, and spices. Southern Coffee Mills, Limited. 247,324; Sept. 25; Serial No. 251,996; published Sept. 13, 1927.
Confections, Frozen. Eskimo Pie Corporation. 247,303; Sept. 25; Serial No. 264,571; published July 10, 1928.
Corn in flake form, Product of. Evans Milling Company. 247,359; Sept. 25; Serial No. 234,468; published Nov. 1, 1927.
Crackers, wafers, or biscuits. Keebler Weyl Baking Co. 247,461; Sept. 25; Serial No. 264,885; published July 17, 1928.
Eggs. Whitehead Bros. 247,432; Sept. 25; Serial No. 253,614; published Oct. 4, 1927.
Extract, Malt. Cost Mossides. 247,420; Sept. 25; Serial No. 260,902; published July 10, 1928.
Feed, Horse. St. Albans Grain Company. 247,332; Sept. 25; Serial No. 263,175; published July 17, 1928.
Feed, Poultry and stock. F. W. Simpson. 247,305; Sept. 25; Serial No. 266,486; published July 3, 1928.
Feeds and dairy stock. St. Albans Grain Company. 247,331; Sept. 25; Serial No. 263,176; published July 17, 1928.
Flour, Pancake and buckwheat. Little Crow Milling Company. 247,258; Sept. 25; Serial No. 267,498; published July 17, 1928.
Flour, rolled oats, canned evaporated milk, etc. Wheat. Wm. Fisher & Co. 247,419; Sept. 25; Serial No. 261,102; published July 10, 1928.
Flour, Self-rising. Carr Milling Company. 247,469; Sept. 25; Serial No. 264,635; published July 3, 1928.
Flour Wheat. Buffalo Flour Mills Corporation. 247,254; Sept. 25; Serial No. 267,745; published July 17, 1928.
Flour, Wheat. Pendleton Flour Mills Co. 247,219; Sept. 25; Serial No. 266,556; published July 17, 1928.
Flour, Wheat. Shellabarger Mills & Elevator Company. 247,484; Sept. 25; Serial No. 258,599; published July 17, 1928.
Flour, Wheat and plain. Blish Milling Company. 247,323; Sept. 25; Serial No. 250,966; published May 15, 1928.
Flour, Wheat and self-rising. Union City Milling Co. 247,281; Sept. 25; Serial No. 255,142; published Jan. 10, 1928.
Food and beverage purposes, Natural product for. D. T. Hickey. 247,501; Sept. 25; Serial No. 265,107; published July 10, 1928.
Food for cats and dogs. Dr. W. J. Ross Company. 247,517; Sept. 25.
Food, Infant's. Schweiz. Kindermehl-Fabrik. 247,424; Sept. 25; Serial No. 259,138; published July 10, 1928.
Fruits, Dried. Roeding Fig & Olive Co. 247,260; Sept. 25; Serial No. 267,461; published July 17, 1928.
Fruits, Fresh deciduous. G. Kounias. 247,265; Sept. 25; Serial No. 267,865; published July 17, 1928.
Herring. De Zeeuw & Van Raalt. 32,108; renewed Nov. 1, 1928.
Honey. John G. Paton Company. 247,395; Sept. 25; Serial No. 265,925; published July 10, 1928.
Mayonnaise and salad dressings. Musher and Company. 247,392; Sept. 25; Serial No. 266,090; published July 10, 1928.
Meal and stock feeds, Corn. Royal Feed & Milling Company. 247,379; Sept. 25; Serial No. 266,830; published July 17, 1928.
Nuts. R. L. Hatch. 69,687; renewed June 30, 1928.
Oranges, lemons, tomatoes, etc. E. R. Nash. 247,536; Sept. 25.
Pickles, hot vegetable relishes, sweet-pickle relishes. Eagle Food Products Corporation. 247,426; Sept. 25; Serial No. 257,005; published July 10, 1928.

Pies. Massachusetts Pie Baking Company. 247,442; Sept. 25; Serial No. 265,977; published July 17, 1928.
Potatoes, Fresh. Albert Miller & Company. 247,304; Sept. 25; Serial No. 266,505; published July 17, 1928.
Rice, macaroni, canned mushrooms, etc. Duomo Food Products, Inc. 247,508; Sept. 25; Serial No. 262,955; published July 10, 1928.
Salad dressing. A. M. Miller. 247,506; Sept. 25; Serial No. 263,048; published July 10, 1928.
Sandwiches. A. K. Kregel. 247,221; Sept. 25; Serial No. 266,545; published July 17, 1928.
Scratch, chick starter, baby lima beans, etc., Baby-chick. Blotz-Henneman Seed Co. 247,317; Sept. 25; Serial No. 266,236; published July 17, 1928.
Syrups for flavoring. F. B. McCracken. 247,226; Sept. 25; Serial No. 266,210; published July 10, 1928.
Tea. A. Koppel. 72,025; renewed Dec. 29, 1928.

CLASS 49.

Whiskey for medicinal purposes. Security Warehouse and Investment Co. 247,259; Sept. 25; Serial No. 267,466; published July 17, 1928.

ALPHABETICAL LIST OF LABELS.

Ansonia Bootery. For Boxes. Hoague-Sprague Corporation. 34,625; Sept. 25.
Beautiful Shoes. For Boxes. Hoague-Sprague Corporation. 34,615; Sept. 25.
Better Footwear. For Boxes. Hoague-Sprague Corporation. 34,625; Sept. 25.
Caheen Bros. Inc. For Boxes. Hoague-Sprague Corporation. 34,622; Sept. 25.
Camper. For Coffee. Seaport Coffee Co. 34,641; Sept. 25.
Cat's Me-Ow Cup Cakes. For Cup Cakes. Under Commercial Company. 34,645; Sept. 25.
Cinderella. For Boxes. Hoague-Sprague Corporation. 34,636; Sept. 25.
Colonel Bogey's Tee Cups. For Golf Tees. V. Snow. 34,643; Sept. 25.
Courteous Service. For Boxes. Hoague-Sprague Corporation. 34,619; Sept. 25.
Eastwood. For Men's, Women's, and Children's Shoes of Leather, Rubber, Cotton, Silk, Linen, Satin, Mohair, Wool, Straw, Paper, and Fibre. Wm. Eastwood & Son Co. 34,608; Sept. 25.
England Brothers. For Boxes. Hoague-Sprague Corporation. 34,614; Sept. 25.
Fine Footwear. For Boxes. Hoague-Sprague Corporation. 34,631; Sept. 25.
Frances Fox Almond-Olive Soap for Hair & Skin. For Soap. Frances Fox Laboratories, Incorporated. 34,610; Sept. 25.
French Maid. For Boxes. Hoague-Sprague Corporation. 34,634; Sept. 25.
Good Shoes. For Boxes. Hoague-Sprague Corporation. 34,620; Sept. 25.
Haddock. For Dressed, Usually Frozen, Sea Foods. General Foods Company. 34,611; Sept. 25.
Imperial Shoe Store. For Boxes. Hoague-Sprague Corporation. 34,624; Sept. 25.
Lady Roda Shoes. For Boxes. Hoague-Sprague Corporation. 34,621; Sept. 25.
Le Grand's Silk Armor. For Chemical Product for Treating Articles Made of Silk. H. L. Hepp. 34,612; Sept. 25.
Louis Pizitz. For Boxes. Hoague-Sprague Corporation. 34,617; Sept. 25.
Maillard's Black Devils. For Candy. Henry Maillard, Inc. 34,637; Sept. 25.
Maker of Fine Shoes. For Boxes. Hoague-Sprague Corporation. 34,626; Sept. 25.
Meadors. For Boxes. Hoague-Sprague Corporation. 34,632; Sept. 25.
Out-O. For a Combination Ash Tray, Cigar and Cigarette Extinguisher. R. C. Thomas. 34,644; Sept. 25.
P R Cleaner for Dainty Hands. For Cleaners for Pots and Pans. P R Cleaner Co. 34,640; Sept. 25.
Partridge Tomato Catsup. For Tomato Catsup. H. H. Meyer Packing Company. 34,638; Sept. 25.
Pied Piper. For Fresh Grapes. G. R. Buckingham. 34,607; Sept. 25.
Quality Footwear. For Boxes. Hoague-Sprague Corporation. 34,630; Sept. 25.
Quality Shoes. For Boxes. Hoague-Sprague Corporation. 34,627; Sept. 25.
Rose Marie Slipper Shop. For Boxes. Hoague-Sprague Corporation. 34,633; Sept. 25.
Seidels. For Boxes. Hoague-Sprague Corporation. 34,618; Sept. 25.
Smart Shoes. For Boxes. Hoague-Sprague Corporation. 34,613; Sept. 25.
Style Creators. For Boxes. Hoague-Sprague Corporation. 34,623; Sept. 25.
Tex-Ant. For Ant Poison. Florida Chemical Company. 34,609; Sept. 25.
The Long Wear Shoe Company. For Boxes. Hoague-Sprague Corporation. 34,616; Sept. 25.
Toastmaster. For Coffee. Seaport Coffee Co. 34,642; Sept. 25.
Valpo. For Cigars. Val. W. Poterek & Sons. 34,639; Sept. 25.
Vanity Fair. For Boxes. Hoague-Sprague Corporation. 34,629; Sept. 25.
Wilcox Foot Balm. For Foot Powder. C. W. Wilcox. 34,646; Sept. 25.
Women's and Children's Shoes. For Boxes. Hoague-Sprague Corporation. 34,628; Sept. 25.

ALPHABETICAL LIST OF PRINTS.

Closer Than a Tatooed Anchor. For Tobacco. R. J. Reynolds Tobacco Company. 11,240; Sept. 25.
Come On—Take Me Up. For Tobacco. R. J. Reynolds Tobacco Company. 11,239; Sept. 25.
If You Smoke for Pleasure—And That's What Made This Cigarette Famous. For Cigarettes. R. J. Reynolds Tobacco Company. 11,241; Sept. 25.
It's Fair Sailing—Once You've Chosen Camels. For Cigarettes. R. J. Reynolds Tobacco Company. 11,237; Sept. 25.
It's The Favorite When Smoking is Recognized As a Pleasure. For Cigarettes. R. J. Reynolds Tobacco Company. 11,243; Sept. 25.
Personally, I Smoke for Pleasure. For Cigarettes. R. J. Reynolds Tobacco Company. 11,238; Sept. 25.
Read The Truth. For Cigarettes. R. J. Reynolds Tobacco Company. 11,242; Sept. 25.
These are Skipping Days. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,236; Sept. 25.
They Go From Miss Arden's to Buckingham Palace. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,234; Sept. 25.
To Clients of my Paris Establishment. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,235; Sept. 25.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF SEPTEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A.-G. für Handels- und Industriewerte Glarus. (See Richter, Alfred, assignor.)
Abalsamo, Pascual, Buenos Aires, Argentina. Slicing machine. 1,685,184; Sept. 25.
Abbott, Edward J., Wilton, N. H. Winding and unwinding yarns or threads. 1,685,390; Sept. 25.
Abel, Joseph C., Westwood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Cane car. 1,685,079; Sept. 25.
Abern, Halsey C., Chicago, Ill. Carburetor. 1,685,114; Sept. 25.
Abramson, Nathan, Brooklyn, N. Y. Socket flasher. 1,685,514; Sept. 25.
Abramson, Nathan, Brooklyn, N. Y. Flashing plug. 1,685,515; Sept. 25.
Acme Air Appliance Co. (See Carliss, Albert E., assignor.)
Acoustic Products Company. (See Hutchison, Miller R., assignor.)
Adams, Ervin, Johnstown, assignor to T. Lochrie and J. B. Bell, Winber, Pa. Electric heating attachment for windshield wipers. 1,685,389; Sept. 25.
Adams, Floyd W., Peoria, Ill., assignor to The Barrett Company. Saturator. 1,685,078; Sept. 25.
Adams, Henry, Plainfield, N. J. Apparatus for making colloidal fuel. 1,685,115; Sept. 25.
Aeschbach, Friedrich, Aarau, Switzerland. Dough-kneading machinery. 1,685,185; Sept. 25.
Aeschbach, Friedrich, Aarau, Switzerland. Kneading machine. 1,685,186; Sept. 25.
Aeschbach, Friedrich, Aarau, Switzerland. Dough kneading and mixing machine. 1,685,187; Sept. 25.
Aktiebolaget Fallskärm. (See Thörnblad, Axel R., assignor.)
Albrecht, George M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine and winding therefor. 1,685,737; Sept. 25.
Albrecht, George M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine and winding therefor. 1,685,738; Sept. 25.
Allen, Frank L., Montclair, N. J. Method and apparatus for screening fluids. 1,685,621; Sept. 25.
Allen, George, jr., New York N. Y., and F. C. Simpson, West Somerville, Mass., assignors to George Allen & Son, New York, N. Y. Wall construction. 1,685,391; Sept. 25.
Allen, George, & Son. (See Allen, G., jr., and Simpson, assignors.)
Allen, William J., St. Cloud, Minn. Table for carrying stone for cutting. 1,685,661; Sept .25.
Allis-Chalmers Manufacturing Company. (See Albrecht, George M., assignor.)
Allis-Chalmers Manufacturing Company. (See Brown, Arthur J., assignor.)
Allis-Chalmers Manufacturing Company. (See Dorfan, Morton L., assignor.)
Allis-Chalmers Manufacturing Company. (See Earle, Ralph H., assignor.)
Allis-Chalmers Manufacturing Company. (See Geist, Walter, assignor.)
Allis-Chalmers Manufacturing Company. (See George, Edgar C., assignor.
Allis-Chalmers Manufacturing Company. (See Nye, Henry V., assignor.)
Allis-Chalmers Manufacturing Company. (See Pfau, Arnold, assignor.)
Allis-Chalmers Manufacturing Company. (See Pfau, A., and Grob, assignors.)
Allis-Chalmers Manufacturing Company. (See Powell, William H., assignor.)
Allis-Chalmers Manufacturing Company. (See Ring, Joseph J., assignor.)
Allis-Chalmers Manufacturing Company. (See Ring, J. J., and Schindler, assignors.)
Alsatian Machine Works, Limited. (See Homans, William P., assignors.)
Alther, Joseph G., assignor to Universal Oil Products Company, Chicago, Ill. Cracking oils. 1,685,476; Sept. 25.
American Auto Lamp Co. (See Putterman, Benjamin, assignor.)
American Blower Corporation. (See Morse, Clark T., assignor.)
American Brass Novelty Co. (See Doerr, Fred H., assignor.)
American Can Company. (See Thomas, John J., assignor.)
American Can Company. (See Young, John M., assignor.)
American Car and Foundry Company. (See Abel, Joseph C., assignor.)
American Car and Foundry Company. (See Auchincloss, William K., assignor.)
American Car and Foundry Company. (See Constantine, Alphonse A., assignor.)
American Car and Foundry Company. (See Evans, Charles H., assignor.)
American Car and Foundry Company. (See Hummer, Charles I., assignor.)
American Car and Foundry Company. (See Johnson, W. S., and Sheffer, assignors.)
American Car and Foundry Company. (See Joy, Robert W., assignor.)
American Car and Foundry Company. (See Kassler, Adolph, assignor.)
American Car and Foundry Company. (See Mendez, Alvaro, assignor.)
American Car and Foundry Company. (See Nichols, Daniel R., assignor.)
American Car and Foundry Company. (See Scheibli, Robert J., jr., assignor.)
American Car and Foundry Company. (See Thompson, John D., assignor.)
American Car and Foundry Company. (See Thompson, J. D., and Willoughby, assignors.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Car and Foundry Motors Company. (See Schlesinger, August B., assignor.)
American Car and Foundry Motors Company. (See Walker, H., and Whitten, assignors.)
American Car and Foundry Motors Company. (See Whitten, Frank A., assignor.)
American Flyer Manufacturing Company. (See Becker, Harry S., assignor.)
American Foundry Equipment Company, The. (See Rich, Elmer A., jr., assignor.)
American Lurgi Corporation. (See Gensecke, Wilhelm, assignor.)
American Multigraph Company, The. (See Morse, Lawrence H., assignor.)
American Optical Company. (See Gunning, William A., assignor.)
American Optical Company. (See Ljunglof, George L., assignor.)
American Slicing Machine Company. (See Campbell, William J., assignor.)
American Telephone and Telegraph Company. (See Bartenbach, H., and Freeman, assignors.)
American Telephone and Telegraph Company. (See Edwards, William H., assignor.)
American Telephone and Telegraph Company. (See Honaman, Richard K., assignor.)
Anderson, James S., Ames, Nebr. Vehicle light. 1,685,622; Sept. 25.
Anderson, John A., Port Arthur, Ontario, Canada. Highway-crossing gate. 1,685,623; Sept. 25.
Anderson, John H., St. Paul, Minn. Cuff construction. 1,685,305; Sept. 25.
Anderson, William, Hebburn-on-Tyne, and H. W. Clothier, Wallsend-on-Tyne, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Control mechanism for electric switch gear. 1,685,531; Sept. 25.
Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Purification. 1,685,624; Sept. 24.
Angeletti, Joseph M., New York, N. Y. Typewriter. 1,685,391; Sept. 25.
Arden, Thomas R., Forest Hills, assignor to J. Chein, New York, N. Y. Chassis. 1,685,592; Sept. 25.
Armstrong Cork Company. (See Humphreys, Eric J., assignor.)
Armstrong, Edwin J., Erie, Pa., assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis. Steering apparatus for motor-driven vehicles. 1,685,306; Sept. 25.
Arnold, Carl, Nuremberg, Germany. Interchangeable transparent disk on spark-producing toys with changing pictures. 1,685,411; Sept. 25.
Arnold, Carl, Nuremberg, Germany. Spark-producing toy. 1,685,412; Sept. 25.
Ashley, Frank M., Brooklyn, N. Y. Fountain pen. 1,685,413; Sept. 25.
Ashley, Frank M., Brooklyn, N. Y. Fountain pen. 1,685,414; Sept. 25.
Asiatic Petroleum Company. (See Lawson, Joseph, assignor.)
Aspinwall, Robert S., Detroit, Mich. Combined porch lantern and supporting bracket. Des. 76,367; Sept. 25.
Associated Merchandising Corporation. (See Lavault, André, assignor.)

Atkinson, William H., Washington, D. C. Automobile body. 1,685,264; Sept. 25.
Atwell, Harold V., assignor to Standard Oil Company, Whiting, Ind. Liquid seal. 1,685,516; Sept. 25.
Auble, Lawrence, assignor of one-third to C. E. McCarthy and one-third to K. F. Kapff, Toledo, Ohio. Mail-carrier mechanism. 1,685,593; Sept. 25.
Auchincloss, William K., assignor to American Car and Foundry Company, New York, N. Y. Placard and holder therefor. 1,685,080; Sept. 25.
Austin, Ain, De Kalb, Ill. Elevator and support for wall boards and the like. 1,685,144; Sept. 25.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Terminal for bushing insulators. 1,685,662; Sept. 25.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulated perch for preventing bird trouble in connection with electric transmission lines. 1,685,663; Sept. 25.
Automatic Electric Inc. (See Lomax, Clarence E., assignor.)
Automatic Electric Inc. (See Ruggles, Leonard L., assignor.)
Automatic Electric Inc. (See Stehlik, Rudolph F., assignor.)
Bahnson, Frederic F., Winston-Salem, N. C. Humidifier. 1,685,221; Sept. 25.
Bailey, James, assignor to Corning Glass Works, Corning, N. Y. Temperature-controlling means. 1,685,348; Sept. 25.
Bailey, James, assignor to Corning Glass Works, Corning, N. Y. Apparatus for and process of finishing blown-glass articles. 1,685,349; Sept. 25.
Baker Casing Shoe Company. (See Baker, Reuben C., assignor.)
Baker, George B. (See Paterson, J. C., and Baker.)
Baker, Harold U. (See Jones, W. S., and Baker.)
Baker, Harold U., et al. (See Jones, W. S., and Baker, assignors.)
Baker Perkins Company Incorporated. (See Paterson, J. C., and Baker, assignors.)
Baker, Reuben C., Coalinga, Calif., assignor to Baker Casing Shoe Company. Cementing and floating shoe. 1,685,307; Sept. 25.
Baker, Sylvester A., San Francisco, Calif. Street-light globe. Des. 76,368; Sept. 25.
Baldwin, Harry G., New Haven, assignor to The New Departure Manufacturing Company, Bristol, Conn. Bearing mounting. 1,685,517; Sept. 25.
Balls, Carl R., et al. (See Schenk, Otto, assignor.)
Balmer, John H., Maplewood, N. J. Towel-bar bracket. Des. 76,369; Sept. 25.
Barber, William J., assignor to The E. & N. Manufacturing Company, Delphos, Ohio. Cleaning implement. 1,685,265; Sept. 25.
Barchoff, Abraham, New York, N. Y. Tray and making same. 1,685,116; Sept. 25.
Barrett Company, The. (See Adams, Floyd W., assignor.)
Barrows, Donald S., Rochester, N. Y. Draft rigging. 1,685,209; Sept. 25.
Bartenbach, Herman, Pittsburgh, Pa., and A. E. Freeman, Andover, N. J., assignors to American Telephone and Telegraph Company. Hook. 1,685,145; Sept. 25.
Basch, David, Schenectady, N. Y., assignor to General Electric Company. Cable terminal. 1,685,625; Sept. 25.
Bash, Linus, Tulsa, Okla. Adjustable-scaffold jack. 1,685,445; Sept. 25.
Bassick Manufacturing Company, The. (See Davis, Ernest W., assignor.)
Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
Bassick Manufacturing Company, The. (See Herb, Otto J., assignor.)
Bassick Manufacturing Company, The. (See Johnson, Gustav, assignor.)
Bassick Manufacturing Company, The. (See Murphy, Howard J., assignor.)
Bassick Manufacturing Company, The. (See Raeburn, William, assignor.)
Battle Creek Bread Wrapping Machine Company. (See Beckman, Henry F., assignor.)
Bauerschmidt, Kuno, Karlshorst, Germany, assignor to General Electric Company. Electric switch. 1,685,664; Sept. 25.
Baum, Gustav, Weissenstein-on-the-Drau, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y. Apparatus for electrically heating liquids. 1,685,210; Sept. 25.
Baum, Gustav, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y. Heating liquids by electrical energy for distillation, concentration, provocation of chemical reactions, etc. 1,685,266; Sept. 25.
Bauwens, Seraphine F., Chicago, Ill., assignor to Wire-bound Patents Company. Machine for use in making boxes. 1,685,626; Sept. 25.
Beadle, George W., Rye, N. Y., assignor to The Cellacote Company, Inc. Preservative packing and making the same. 1,685,392; Sept. 25.
Beadle, Harold I., New York, N. Y., assignor to The Cellacote Company, Inc. Covering articles and the product resulting therefrom. 1,685,393; Sept. 25.
Beckman, Henry F., assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich. Bread-wrapping machine. 1,685,146; Sept. 25.
Beckman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Knife bar for paper cutting and folding machines. 1,685,532; Sept. 25.
Beck, August B., Cranford, N. J., assignor of one-half to S. E. Rizzuto, Brooklyn, N. Y. Corset. 1,685,477; Sept. 25.
Beck, Lester E., Kelly Station, Pa. Heat or pressure responsive circuit closer. 1,685,211; Sept. 25.
Becker, Harry S., River Forest, assignor to American Flyer Manufacturing Company, Chicago, Ill. Headlight and mounting for toy railway cars. 1,685,691; Sept. 25.
Beckwith, Joseph H., Pine Bluff, Ark. Brick mold. 1,685,188; Sept. 25.
Beiffos, Anton, Newark, N. J. Collar-button clasp. 1,685,595; Sept. 25.
Beiger, Fred S. (See Eustis, R. I., and Beiger.)
Bell, Joseph B., et al. (See Adams, Ervin, assignor.)
Beloit Iron Works. (See Berry, Earl E., assignor.)
Benedict, George W., assignor to Mid-West Manufacturing Company, Minneapolis, Minn. Universal joint. 1,685,446; Sept. 25.
Benjamin Bert R., Oak Park, assignor to International Harvester Company, Chicago, Ill. Tractor plow. 1,685,267; Sept. 25.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Cultivator blade. 1,685,268; Sept. 25.
Benner, Harry F. (See Egloff, G., and Benner.)
Bennett, John F., London, England. Calendar. 1,685,692; Sept. 25.
Benson, Jared C. (See Stevens, H. R., Parker, Shupert, and Benson.)
Berg, Hart O. (See Michel, Gilbert, assignor.)
Berger, Isadore, Newark, N. J., assignor to E. H. Chein, New York, N. Y. Toy body formed of sheet material. 1,685,594; Sept. 25.
Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Paper-unwinding stand with water-cooled drum. 1,685,117; Sept. 25.
Berry, George W., Leeds, assignor of one-half to C. J. Rhodes, Wakefield, England. Press for drawing sheet metal. 1,685,308; Sept. 25.
Bethenod, Joseph, Paris, France, assignor to Motor Industries, Inc., Chicago, Ill. Declutching. 1,685,596; Sept. 25.
Bieler, William W., Hays, Kans. Power hammer. 1,685,447; Sept. 25.
Billingsley, P. L., Company, The. (See Billingsley, Percy L., assignor.)
Billingsley, Percy L., Orlando, Fla., assignor to The P. L. Billingsley Company, Cincinnati, Ohio. Sawing device. Re17,987; Sept. 25.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Electrical apparatus. 1,685,223; Sept. 25.
Binns, Edward H., et al. (See De Hart, William A., assignor.)
Binns, Ralph H., et al. (See De Hart, William A., assignor.)
Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Combined phonograph and radio apparatus. 1,685,394; Sept. 25.
Bjorge, Oscar B., Portland, Oreg., assignor to Clyde Iron Works, Duluth, Minn. Demountable winding drum. 1,685,519; Sept. 25.
Bjorkman, Axel W., Brooklyn, assignor to Otis Elevator Company, New York, N. Y. Coil-winding device. 1,685,597; Sept. 25.
Black Rock Manufacturing Company, The. (See Hammond, G. L., Messinger, and Nicholas, assignors.)
Blackhawk Manufacturing Company. (See Pfauser, Edward M., assignor.)
Blackman, Albert E., Mount Vernon, N. Y. Mail box. 1,685,222; Sept 25.
Blanchard, Joseph, Sydney, New South Wales, Australia. Exhaust-gas muffler for internal-combustion engines. 1,685,701; Sept. 25.
Bliss, E. W., Company. (See Strout, Robert W., assignor.)
Blomstrom, Lowell C., assignor to Federal Mogul Corporation, Detroit, Mich. Holding block for broaching half bearings. 1,685,224; Sept. 25.
Bloom, Nathan P., Louisville, Ky. Cabinet for a sound-reproducing instrument or the like. Des. 76,370; Sept. 25.
Blunt, James G., Schenectady, N. Y. Locomotive driving box. 1,685,212; Sept. 25.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Ceiling Plate for Lighting Fixtures or Similar Articles. Des. 76,371; Sept. 25.
Bond, Leslie W., Schenectady, N. Y., assignor to General Electric Company. Mechanism for operating electric switches. 1,685,065; Sept. 25.
Borgwardt, Erich. (See Schoeller, W., Feldt, Gehrke, and Borgwardt.)
Borroughs, Joseph N., Oakland, Calif. Towel cabinet. 1,685,395; Sept. 25.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet. Des. 76,372; Sept. 25.

Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet. Des. 76,373; Sept. 25.
Boyce, Edwin D., Norristown, Pa. Tool guard. 1,685,213; Sept. 25.
Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. Textile fabric. Des. 76,374; Sept. 25.
Boyd, John S., Co. (See Boyd, John S., assignor.)
Boyes, Estella M., New York, N. Y. Dress or Similar Article. Des. 76,375; Sept .25.
Boylan, Edward R., Los Angeles, Calif. Dieing-out machine. 1,685,309; Sept. 25.
Brady, Thomas, East Orange, N. J., assignor, by mesne assignments, to Otis Elevator Company, New York, N. Y. Door-closure mechanism. 1,685,081; Sept. 25.
Brady, Thomas, East Orange, assignor to Otis Elevator Company, Jersey City, N. J. Gate mechanism. 1,685,225; Sept. 25.
Breen, Frederick P., Springfield, Mass. Spiral drive device. 1,685,702; Sept. 25.
Brennels, Louis, Oxnard, Calif., assignor to Brennels Manufacturing Company. Cultivator. 1,685,478; Sept. 25.
Brennels Manufacturing Company. (See Brennels, Louis, assignor.)
Briody, Bernard, assignor to Truscon Steel Company, Youngstown, Ohio. Reenforced-concrete roadway. 1,685,562; Sept. 25.
Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Inspecting apparatus. 1,685,761; Sept. 25.
Brophy, Dorothy H., and W. A. Ruggles, Schenectady, N. Y., assignors to General Electric Company. Method and apparatus for storing alkali metals. 1,685,666; Sept. 25.
Brown, Arthur J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotor for dynamo-electric machines. 1,685,739; Sept. 25.
Brown Company. (See Richter, George A., assignor.)
Brown, Millard D., assignor to Continental Mills, Inc., Philadelphia, Pa. Knitted fabric. Des. 76,376; Sept. 25.
Brown, Robert F., Dayton, Ohio, assignor, by mesne assignments to Oxford Varnish Corporation, Detroit, Mich. Reproducing artistic designs. 1,685,396; Sept. 25.
Browning, George, Computing machine. 1,685,583; Sept. 25.
Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
Brynelson, Arthur W., Augusta, Ga. Roundabout. 1,685,627; Sept. 25.
Bucher & Gibbs Plow Company, The. (See Groenke, John H., assignor.)
Buchet, Conrad R., Long Beach, Calif. Toy speed boat. 1,685,350; Sept. 25.
Buchner, Max, Hanover-Kleefeld, Germany, assignor to A. Meyerhofer, Zurich, Switzerland. Manufacturing complex hydrofluoric salt. 1,685,628; Sept. 25.
Buckley, Thomas F., Scranton, Pa. Spring-forming machine. 1,685,415; Sept. 25.
Bucyrus-Erie Company. (See Armstrong, Edwin J., assignor.)
Bulletin Co. (See Kearney, George F., assignor.)
Bundy, Harry W., Detroit, Mich. Method and apparatus for making tubing. 1,685,269; Sept. 25.
Bundy, Harry W., Detroit, Mich. Making finned tubing. 1,685,270; Sept. 25.
Bunker, Ralph A., Yarmouth, Me. Footwear. 1,685,561; Sept. 25.
Burdick, Charles L., assignor to Guggenheim Brothers, New York, N. Y. Heating high-temperature apparatus. 1,685,226; Sept. 25.
Burrell, Edward P., Shaker Heights, and G. W. Drake, Cleveland Heights, assignors to The Warner and Swasey Company, Cleveland, Ohio. Controlling lever for machine tools. 1,685,310; Sept. 25.
Burrows, William J., St. Paul, Minn. Making lead cames. 1,685,518; Sept. 25.
Butterworth, Thomas C., Mill Valley, Calif. Filing structure. 1,685,448; Sept. 25.
By-Products Coke Corporation. (See Waggoner, C. L., and Thacher, assignors.)
C. & C. Engineering Company. (See Carrey, John O., assignor.)
C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Morgan, assignors.)
C-S Engineering Company. (See Schellens, E. L., and Coffin, assignors.)
California Six Wheel Company. (See Rodin, Charles F., assignor.)
Campbell, Robert C., Millburn, N. J., assignor to United Filters Corporation, Hazleton, Pa. Recovering sugar values. 1,685,118; Sept. 25.
Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,685,271; Sept. 25.
Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,685,272; Sept. 25.
Candee, Allan H. (See Wildhaber, E., and Candee.)
Carliss, Albert E., Floral Park, N. Y., assignor to Acme Air Appliance Co., Inc. Air-pressure gauge. 1,685,273; Sept 25.
Carns, Edmund B., New York, N. Y. Landing gear for flying machines. 1,685,119; Sept. 25.
Carns, Edmund B., New York, N. Y. Nut lock. 1,685,120; Sept. 25.
Carns, Edmund B., New York, N. Y. Fuselage. 1,685,121; Sept. 25.
Carns, Edmund B., New York, N. Y. Aircraft chassis. 1,685,122; Sept. 25.
Carrey, John O., assignor to C. & C. Engineering Company, Inc., St. Louis, Mo. Gyratory pump. 1,685,397; Sept. 25.
Carter, George H., Boston, Mass. Dish holder. Des. 76,377; Sept. 25.
Carter-Mayhew Manufacturing Co. (See Varusky, John J., assignor.)
Carvalho, Leslie R. N., Toledo, Ohio. Closure device. 1,685,227; Sept. 25.
Carveth, Hector R., Niagara Falls, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Controlling rate of oxidation. 1,685,520; Sept. 25.
Case, Oscar B., Williamsport, Pa. Container. 1,685,147; Sept. 25.
Castles, Thomas R., Portland, Oreg. Burglar alarm. 1,685,416; Sept. 25.
Cellacote Company, The. (See Beadle, George W., assignor.)
Cellacote Company, The. (See Beadle, Harold I., assignor.)
Chance, Thomas M., Merion, Pa. Separation of materials of different specific gravities. 1,685,521; Sept. 25.
Chase Companies, The. (See Wellington, Arthur W., assignor.)
Cheathum Electric Switching Device Company. (See Milton, John L., assignor.)
Chein, Elizabeth H. (See Berger, Isadore, assignor.)
Chein, Julius. (See Arden, Thomas R., assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Schoeller, W., Feldt, Gehrke, and Borgwardt, assignors.)
Chemische Fabrik Ludwig Meyer. (See Molz, Emil, assignor.)
Chicago Pneumatic Tool Company. (See Kimman, Theodore P., assignor.)
Chicago Steel & Wire Company. (See Green, J. Birchard, assignor.)
Childers, George P., San Francisco, Calif. Drip pan. Des. 76,378; Sept. 25.
Christianson, Chris A., Ulen, Minn. Ventilating sash. 1,685,311; Sept. 25.
Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
Clark, Cyrus A., Claremont, Calif. Razor-blade holder. 1,685,703; Sept. 25.
Clark, James E. (See Clark, Thomas E. and J. E.)
Clark, Thomas E., assignor to Continuous Train Control Corporation, Detroit, Mich. Safety installation for grade crossings. 1,685,480; Sept. 25.
Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Train-control apparatus. 1,685,479; Sept. 25.
Claus, Bruno, Magdeburg, Germany. Bed bidet. 1,685,693; Sept. 25.
Click, Samuel A., assignor to C. G. Conn, Ltd., Elkhart, Ind. Musical-instrument case. 1,685,123; Sept. 25.
Clothier, Henry W. (See Anderson, W., and Clothier.)
Clyde Iron Works. (See Bjorge, Oscar B., assignor.)
Coen Company. (See Voorhels, Joseph T., assignor.)
Coffin, Joel S., jr. (See Schellens, E. L., and Coffin.)
Cohen, Louis, Washington, D. C. Radio receiving system. 1,685,763; Sept. 25.
Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Car-wheel boring and facing machine. 1,685,417; Sept. 25.
Collins, Abraham L. Sr., Amite, La. Rail joint. 1,685,704; Sept. 25.
Columbia Metal Box Co. (See Katcher, Morris, assignor.)
Combes, Abbott L., and H. M. Keyser, East Falls Church, Va. Ripping unit for metal cans. 1,685,312; Sept. 25.
Combustion Engineering Corporation. (See Jackson, George P., assignor.)
Comey, R. H., Brooklyn Company. (See Oakes, Raymond H., assignor.)
Conant, Herbert S., Troy, N. Y. Firearm. 1,685,148; Sept. 25.
Conn, C. G., Ltd. (See Click, Samuel A., assignor.)
Conn, C. G., Ltd. (See Weber, Charles, jr. assignor.)
Connell, Edwin L., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Electric drill. Des. 76,379; Sept. 25.
Connolly, William B., assignor to North East Electric Company, Rochester, N. Y. Condenser mounting. 1,685,563; Sept. 25.
Consolidated Electric Sign Corporation. (See Russell, Harry G., assignor.)
Consolidated Machine Tool Corporation of America. (See Trosch, Alfred, assignor.)
Constantine, Alphonse A., Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y. Holding means for car-vestibule trapdoors. 1,685,124; Sept. 25.
Continental Mills, Inc. (See Brown, Millard D., assignor.)
Continuous Train Control Corporation. (See Clark, Thomas E., assignor.)
Continuous Train Control Corporation. (See Clark, Thomas E. and J. E., assignors.)

Cooke, Milton W., Mount Lebanon, and O. Williams, Pittsburgh, Pa. Electric switching device. 1,685,149; Sept. 25.
Corning Glass Works. (See Bailey, James, assignor.)
Cover, Harry C., assignor of one-half to himself and one-half to M. Hendler, Baltimore, Md. Ice-cream freezer. 1,685,189; Sept. 25.
Cramer, Otto P., San Francisco, Calif. Latch. 1,685,274; Sept. 25.
Cramer, Thomas M., Long Beach, Calif, assignor to Pacific Coast Borax Company. Production of commercial borax from rasorite by a wet method. 1,685,214; Sept. 25.
Crowell, William B., New York, N. Y., assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Elevator and inclosure therefor. 1,685,228; Sept. 25.
Crumrine, George E. (See Morris, O. E., Crumrine, and Grounds.)
Cudahy Packing Company, The. (See Drake, Eugene T., assignor.)
Curtis, Joseph T., New York, N. Y. Hat and making the same. 1,685,190; Sept. 25.
Cutler-Hammer Mfg. Co., The. (See Meuer, George J., assignor.)
Cutler-Hammer Mfg. Co., The. (See Seeger, Edwin W., assignor.)
Dahl, Otto. (See Masing, G., and Dahl.)
Darco Corporation. (See Holt, Joseph H., assignor.)
Daughaday, Frank P., Norton, Mass. Belt buckle. Des. 76,380; Sept. 25.
Davey, James A. G. (See Davey, P. H., and Williams, assignors.)
Davey, James A., Sound Beach, Conn., and P. H. Davey and C. L. Gaugler; said Gaugler assignor of one-third of his entire interest to The Davey Tree Expert Company, Kent, Ohio. Air compressor. 1,685,150; Sept. 25.
Davey, Paul H. (See Davey, James A. and P. H., and Gaugler.)
Davey, Paul H., and W. R. Williams, Kent, Ohio; said Davey assignor of one-fourth to J. A. Davey, Sound Beach, Conn.; said Williams assignor to The Davey Tree Expert Company, Kent, Ohio. Applying threaded bracing rods to trees. 1,685,151; Sept. 25.
Davey Tree Expert Company, The. (See Davey, James A. and P. H., and Gaugler, assignors.)
Davey Tree Expert Company, The. (See Davey, P. H., and Williams, assignors.)
Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Swivel coupling. 1,685,351; Sept. 25.
Davis, Guy F., Schenectady, N. Y., assignor to General Electric Company. Recording system. 1,685,667; Sept. 25.
Davis, James G., Buffalo, N. Y. Foldable horse for trestle beams. 1,685,668; Sept. 25.
Davis, Jasper N., Denver, Colo. Storage-battery plate. 1,685,215; Sept. 25.
Davis, John P., and S. Heiman, St. Louis, Mo.; said Davis assignor to said Heiman. Machine for producing post-office classifica..on slips. 1,685,352; Sept. 25.
Davis, Richard M., West Pittston, Pa. Deflector for gasoline-hose nozzles. 1,685,313; Sept. 25.
Davis, Richard M., West Pittston, Pa. Bottom margin spacer for typewriters. 1,685,314; Sept. 25.
Davis, William, Chicago, Ill. Auxiliary fuel and cleaning device for internal-combustion engines. 1,685,598; Sept. 25.
Dawson, George H., Boston, Mass., and H. F. Frease, Canton, Ohio. Trussed structure. 1,685,353; Sept. 25.
Day, David T., deceased, Washington, D. C.; F. J. Goble, administrator. Extracting the oily bases from crude shale oil. 1,685,315; Sept. 25.
Dayton Funhouse & Riding Device Mfg. Company, The. (See Vaszin, Aurel, assignor.)
Dayton Irrigation Company, The. (See Keys, John H., assignor.)
Dean, Michael F., Indianapolis, Ind. Print or film holder. 1,685,584; Sept. 25.
Deere & Company. (See Paul, William L., assignor.)
Deere & Company. (See Sklovsky, Max, assignor.)
Deere & Company. (See Tuffley, George E., assignor.)
Deere & Company. (See White, Charles H., assignor.)
De Hart, William A., Teaneck, N. J., assignor of five-sevenths to E. H. Binns and two-sevenths to R. H. Binns, Pittsburgh, Pa. Counting mechanism. 1,685,481; Sept. 25.
Delany, Edward L., assignor to Delany Realty Corporation, Brooklyn, N. Y. Flush-tank-operating lever. 1,685,152; Sept. 25.
Delany, Edward L., Brooklyn, N. Y. Flush-tank-operating lever. 1,685,153; Sept. 25.
Delany Realty Corporation. (See Delany, Edward L., assignor.)
Delbon, Frank G., Brooklyn, N. Y. Arch support and shoe-shank reenforcement. 1,685,398; Sept. 25.
Delco-Light Company. (See Smith, Jasper A., assignor.)
Delco-Light Company. (See Starr, Frank F., assignor.)
Deppé, William P., Brightwaters, N. Y. Internal-combustion engine. 1,685,564; Sept. 25.
De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Hanging means for electric fans and the like. 1,685,669; Sept. 25.
Devereaux, William C., Detroit, Mich. Lock-shaft-securing means. 1,685,316; Sept. 25.
Devereaux, William C., Detroit, Mich. Latching means for door-lock handles. 1,685,317; Sept. 25.
De Weese, John H., Dayton, Ohio. Display stand. Des. 76,381; Sept. 25.
Dike, George P., Brookline, Mass. Footwear. 1,685,216; Sept. 25.
Display Stage Lighting Co. Inc. (See Higham, John, assignor.)
Dixson, Harry, assignor to Rolscreen Company, Pella, Iowa. Rethreader for screens. 1,685,522; Sept. 25.
Dobmaier, Karl, Leverkusen-on-the Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of solid alkali-metal salts of organic compounds. 1,685,191; Sept. 25.
Dodge, Adiel Y., South Bend, Ind. Transmission. 1,685,523; Sept. 25.
Dodge, Harry H., Green Island, N. Y. Control valve for gaseous-fuel burners. 1,685,275; Sept. 25.
Doerr, Fred H., assignor to American Brass Novelty Co., Grand Haven, Mich. Receptacle. 1,685,276; Sept. 25.
Doherty, James, Chicago, Ill. Steam and air injector. 1,685,482; Sept. 25.
Donnellan, James S., Los Angeles, Calif. Slicing cutter for butter, bread, and the like. 1,685,533; Sept. 25.
Dopyera, John, Los Angeles, Calif. Guitar. Des. 76,382; Sept. 25.
Dorfan, Morton L., New York, N. Y., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Apparatus for treating fumes. 1,685,229; Sept. 25.
Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Electric switch. 1,685,565; Sept. 25.
Dow Chemical Company, The. (See Veazey, William R., assignor.)
Dow, Floyd Wyanet, Ill. Valley, hip, and ridge construction for roofs. 1,685,524; Sept. 25.
Dow, Floyd, Wyanet, Ill. Flashing for roof construction. 1,685,525; Sept. 25.
Drahn, Carl, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Apparatus for the separation of oil from oil containing substances. 1,685,534; Sept. 25.
Drake, Eugene T., Omaha, Nebr., assignor to The Cudahy Packing Company, Chicago, Ill. Production of nitrites. 1,685,629; Sept. 25.
Drake, Eugene T., Omaha, Nebr., assignor to The Cudahy Packing Company, Chicago, Ill. Curing meats. 1,685,630; Sept. 25.
Drake, George W. (See Burrell, E. P., and Drake.)
Dreifuss, Audrey, et al. (See Schmid, Werner, assignor.)
Dreifuss, Emil, et al. (See Schmid, Werner, assignor.)
Dreifuss, Jerome, et al. (See Schmid, Werner, assignor.)
Dreifuss, Louis, et al. (See Schmid, Werner, assignor.)
Dreifuss, Sybille, et al. (See Schmid, Werner, assignor.)
Dryden, Mary E., Chicago, Ill. Frame and holder for slippers and other articles. 1,685,277; Sept. 25.
Duffey, William J., Denver, Colo. Screen-clamping device. 1,685,705; Sept. 25.
Duncan, Thomas R., Richmond, Calif. Combined weighing and dumping body for motor trucks. 1,685,694; Sept. 25.
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Middleton, Edmund B., assignor.)
Du Pont-Pathe Film Manufacturing Corporation. (See Zeiger, Georges E., assignor.)
Durand, David H., Denver, Colo. Traffic button or signal. 1,685,449; Sept. 25.
Dwyer, William C., Auburn, N. Y., assignor to International Harvester Company, Chicago, Ill. Combined disk and toothed harrow. 1,685,278; Sept. 25.
E. & N. Manufacturing Company, The. (See Barber, William J., assignor.)
Earl, Harley J. (See Seaholm, E. W., and Earl.)
Earle, Ralph H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Prime-mover dynamo plant. 1,685,740; Sept. 25.
Earon, Isabel. (See Earon, Orville D., assignor.)
Earon, Orville D., assignor to I. Earon, Montclair, N. J. Lather brush. 1,685,526; Sept. 25.
Eastman Kodak Company. (See Frederick, Charles W., assignor.)
Edison Electric Appliance Company. (See McCormick, Francis H., assignor.)
Edison Electric Appliance Company. (See Shroyer, Jacob L., assignor.)
Edwards, William H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Lock. 1,685,154; Sept. 25.
Egloff, Gustav, and H. P. Benner, Independence, Kans., assignor to Universal Oil Products Company, Chicago, Ill. Pipe connection. 1,685,483; Sept. 25.
Ehrlich, Frederick W., Newark, N. J. Automobile radiator ornament. Des. 76,383; Sept. 25.
Elge, Jacob, assignor to The Fisher Governor Company, Marshalltown, Iowa. Journaling means for hollow float-arm shafts. 1,685,527; Sept. 25.
Elnson-Freeman Co. (See Elnson, Morris M., assignor.)
Elnson, Morris M., Yonkers, N. Y., assignor to Elnson-Freeman Co., Inc., Combination packing and display container. 1,685,125; Sept. 25.
Elder, John S., Grandfield, Okla. Cotton-chopping machine. 1,685,318; Sept. 25.

Electrolux Servel Corporation. (See von Platen, B. C., and Munters, assignors.)
Elevator Supplies Company. (See Crowell, William B., assignor.)
Elfving, Hemming A., Hango, assignor to Finsk-Engelska Biscuit-Fabriks A. B., Hango-Vaxel, Finland. Apparatus for stacking biscuits and similar articles. 1,685,354; Sept. 25.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Streak-ribbed product and making same. 1,685,355; Sept. 25.
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Emeott, Harry D., St. Paul, Minn. Arch support. 1,685,155; Sept. 25.
Emons, Ernest E., assignor of one-half to R. E. Hillier, Akron, Ohio. Spectacles. 1,685,192; Sept. 25.
Engstrom, Gustaf W., Riverside, assignor to International Harvester Company, Chicago, Ill. Tractor. 1,685,279; Sept. 25.
Enterprise Machinery Company. (See McVicker, W. J., and Sandt, assignors.)
Erdman, Harvey C., Shaker Heights, assignor to The National Screw and Manufacturing Company, Cleveland, Ohio. Metal-working machine. 1,685,319; Sept. 25.
Eustis, Robert I., and F. S. Beiger, assignors to The Eustis Specialty Co., Los Angeles, Calif. Track for sliding sashes. 1,685,535; Sept. 25.
Eustis, Robert I., and F. S. Beiger, assignors to The Eustis Specialty Co., Los Angeles, Calif. Drawer slide. 1,685,536; Sept. 25.
Eustis Specialty Co., The. (See Eustis, R. I., and Beiger, assignors.)
Evans, Charles H., Jersey City, N. J., assignor to American Car and Foundry Company, New York, N. Y. Draft-key retainer. 1,685,126; Sept. 25.
Evans, Floyd G., Baton Rouge, La., assignor of one-half to H. W. Mitchell, Webster Springs, W. Va. Car door and operating means therefor. 1,685,631; Sept. 25.
Evelin, Leo E., New York, N. Y. Shock-absorbing handpiece. 1,685,670; Sept. 25.
Fanberg, Oscar, Hensley, W. Va. Scraper. 1,685,399; Sept. 25.
Farrow, Ernest L., deceased, Cleveland Heights, Ohio; P. Farrow, administratrix. Flexible cord or strip puzzle. 1,685,400; Sept. 25.
Farrow, Pauline, administratrix. (See Farrow, Ernest L.)
Federal Mogul Corporation. (See Blomstrom, Lowell C., assignor.)
Feldt, Adolf. (See Schoeller, W., Feldt, Gerhke, and Borgwardt.)
Fellows, Frederick W., Los Angeles, Calif. Musical instrument. 1,685,401; Sept. 25.
Ferguson, Herman B., Philadelphia, Pa. Garment bag. Des. 76,384; Sept. 25.
Féry, Charles J. V., Paris, France. Separating device for lead storage batteries. 1,685,695; Sept. 25.
Fesler, Douglas F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,685,484; Sept. 25.
Findley, Lester L., Los Angeles, Powder-placing syringe. 1,685,280; Sept. 25.
Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Fancisco, Calif. Insulating board. 1,685,320; Sept. 25.
Finnell System, Incorporated. (See Finnell, Walter S., assignor.)
Finnell, Walter S., Hannibal, Mo., assignor to Finnell System, Incorporated. Floor-scrubbing machine. 1,685,485; Sept. 25.
Finsk-Engelska Biscuit-Fabriks A. B. (See Elfving, Hemming A., assignor.)
Fisher Governor Company, The. (See Elge, Jacob, assignor.)
Fisher, James F., Honolulu, Hawaii. Sign. Des. 76,385; Sept. 25.
Fisher, R. Fenton. (See White, Ernest C., assignor.)
Fitch, Benjamin F., Greenwich, Conn., assignor to Motor Terminals Company, Wilmington, Del. Locking mechanism for removable containers. 1,685,356; Sept. 25.
Fletcher, John P., U. S. Army, Carlisle, Pa. Collapsible dental chair. 1,685,599; Sept. 25.
Foote, Edward B., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 1,685,193; Sept. 25.
Ford Instrument Company. (See Tanner, Harry L., assignor.)
Fornaca, Guido, Turin, Italy. Brake of the expanding-shoe type. 1,685,450; Sept. 25.
Forseth, Albert J., Grand Forks, N. Dak., assignor to B. F. Gilbert, Fort Worth, Tex. Automatically-adjustable embroidery guide. 1,685,194; Sept. 25.
Foster, Theodore W., & Brother Company. (See Noble, Arthur H., assignor.)
Fostoria Glass Company. (See Bottome, Edgar M., assignor.)
Foulds, Charles V., Berkeley, assignor to The Pelton Water Wheel Co., San Francisco, Calif. Sleeve assembly for valve stems, piston rods, spindles, plungers, and the like. 1,685,418; Sept. 25.
Fox, William F., assignor, to Natural Color Pictures Company, Inc., New York, N. Y. Production of colored photographs. 1,685,281; Sept. 25.
Fr. Hesser Maschinenfabrik-Aktiengesellschaft. (See Gangler, Paul, assignor.)
Frank, Gustav, Wichita Falls, Tex. Clamp. 1,685,696; Sept. 25.
Frease, Hurxthal F. (See Dawson, G. H., and Frease.)
Frederick, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Optical system for color processes. 1,685,600; Sept. 25.
Freeman, Albert E. (See Bartenbach, H., and Freeman.)
Freyn Engineering Company. (See Willcox, Frederick H., assignor.)
Fried. Krupp Grusonwerk Aktiengesellschaft. (See Drahn, Carl, assignor.)
Friedemann, Matthew M., New York, N. Y. Display fixture or the like. Des. 76,386; Sept. 25.
Frost, Dennis R., et al. (See Hughes, Hugh R., assignor.)
Fuller, John E., Hartsville, S. C. Hydrocarbon engine. 1,685,282; Sept. 25.
Funnell, Harry M., New Market, N. J. Spring-retained casing for universal joints. 1,685,528; Sept. 25.
Gail, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Spring-inserting mechanism. 1,685,566; Sept. 25.
Gallimore, Keith F. (See Kempton, H. E., Gallimore, and Woytych.)
Gangler, Paul, Esslingen, assignor to the firm Fr. Hesser Maschinenfabrik - Aktiengesellschaft, Stuttgart - Cannstatt, Germany. Machine for wrapping up razor blades. 1,685,601; Sept. 25.
Gardner, James H., Boston, Mass. Printed fabric. Des. 76,387; Sept. 25.
Garland, Walter S., Washington, D. C. Circuit controller. 1,685,537; Sept. 25.
Gaugler, Charles L. (See Davey, James A., and P. H., and Gaugler.)
Gebhardt, George H., Muscatine, Iowa. Treating pearl chips and product. 1,685,451; Sept. 25.
Gedda, Georg G., Surahammer, Sweden. Producing wrought iron with increased tensile properties. 1,685,602; Sept. 25.
Gee, James M., Cleveland, Ohio. Hydrocarbon-oil burner. 1,685,567; Sept. 25.
Gehrke, Max. (See Schoeller W., Feldt, Gehrke, and Borgwardt.)
Geist, Walter, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Candy-pulling machine. 1,685,741; Sept. 25.
Genachte, Désiré V., New York, N. Y. Lamp shade. Des. 76,437; Sept. 25.
General Cable Corporation. (See Saurman, Atlee B., assignor.)
General Electric Company. (See Basch, David, assignor.)
General Electric Company. (See Bauerschmidt, Kuno, assignor.)
General Electric Company. (See Bond, Leslie W., assignor.)
General Electric Company. (See Brophy, D. H., and Ruggles, assignors.)
General Electric Company. (See Davis, Guy F., assignor.)
General Electric Company. (See De Reamer, Frank C., assignor.)
General Electric Company. (See Hardesty, Llewellyn C., assignor.)
General Electric Company. (See Maxwell, Howard, assignor.)
General Electric Company. (See Mosher, James H., assignor.)
General Electric Company. (See Phiffer, Clark R., assignor.)
General Electric Company. (See Testell, Emile, assignor.)
General Electric Company. (See West, Harry R., assignor.)
General Electric Company. (See Whitney, Willis, R., assignor.)
General Motors Corporation. (See Seaholm, E. W., and Earl, assignors.)
General Tire & Rubber Company, The. (See Remark, Isidore J., assignor.)
General Zeolite Company. (See Schreier, Arthur, assignor.)
General Zeolite Company. (See Stein, Milton F., assignor.)
George, Edgar C., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Core for electrical apparatus. 1,685,742; Sept. 25.
Genscecke, Wilhelm, Bad Homburg, Germany, assignor to American Lurgi Corporation, New York, N. Y. Purifying oils and fats. 1,685,195; Sept. 25.
Giberson, Thomas, Caribou, Me. Potato digger. 1,685,230; Sept. 25.
Gibson, James P., Denver, Colo. Collapsible trestle. 1,685,283; Sept. 25.
Gilbert, B. F. (See Forseth, Albert J., assignor.)
Gilbert, Clarence E., Aberdeen, S. Dak. Scarifier tooth. 1,685,196; Sept. 25.
Gilson, Michael, assignor to Kwik-Mix Concrete Mixer Co., Port Washington, Wis. Automatic lock and release for concrete mixers. 1,685,529; Sept. 25.
Giordani, Francesco, Naples, Italy, assignor to Pomilio Brothers Corporation, New York, N. Y. Electrochemical process for separating iron from aluminum. 1,685,156; Sept 25.
Gleason Works. (See Wildhaber, Ernest, assignor.)
Gleason Works. (See Wildhaber, E., and Candee, assignors.)

Glidden, Alfred A., and T. M. Knowland, assignors to Hood Rubber Company, Watertown, Mass. Sole for boots and shoes. 1,685,538; Sept. 25.

Gloekler, John E., Pittsburgh, Pa. Door-latch construction. 1,685,419; Sept. 25.

Gluck, Edward V., Woodhaven, N. Y. Grid leak. 1,685,603; Sept. 25.

Goble, Fred J., administrator. (See Day, David T.)

Goeller, Edward F., New York, N. Y. Advertising device. 1,685,157; Sept. 25.

Gold, Samuel B., assignor to Weber Engine Company, Kansas City, Mo. Coupling. 1,685,158; Sept. 25.

Goldsmith, Hugo, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Athlete's protective harness. 1,685,452; Sept. 25.

Goldsmith, P., Sons Company, The. (See Goldsmith, Hugo, assignor.)

Goodfellow, Alfred, assignor to C. L. Huston, Coatesville, Pa. Electromagnetic carrier system for heavy plate. 1,685,539; Sept. 25.

Gould, Frank D., Oakland, Calif. Auto top. 1,685,530; Sept. 25.

Graham, Albert G., Monette, Ark. Carpenter's rule. 1,685,486; Sept. 25.

Granat, Joseph, San Francisco, Calif. Wedding ring. Des. 76,388; Sept. 25.

Granat, Joseph, San Francisco, Calif. Wedding ring. Des. 76,389; Sept. 25.

Granat, Joseph, San Francisco, Calif. Wedding ring. Des. 76,390; Sept. 25.

Grasselli Dyestuff Corporation. (See Haller, Josef, assignor.)

Green, J Birchard, assignor to Chicago Steel & Wire Company, Chicago, Ill. Stabilizing and modifying the metallic welding arc. 1,685,082; Sept. 25.

Gregory & Read Company. (See Gulliford, Nicholas L., assignor.)

Gretsch, Frederick, Brooklyn, N. Y. Musical instrument. 1,685,706; Sept. 25.

Griggs, Elmer V., White Plains, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,685,357; Sept. 25.

Grimes, Charles P., assignor to Pedwyn Balancer Corporation, Syracuse, N. Y. Safety lock for counterbalancing devices. 1,685,585; Sept. 25.

Groak, Irwin D., Chicago, Ill. Mounting for water-purifying apparatus. Des. 76,391; Sept. 25.

Grob, Benjamin. (See Pfau, A., and Grob.)

Groenke, John H., assignor to The Bucher & Gibbs Plow Company, Canton, Ohio. Self-leveling wheeled plow. 1,685,321; Sept. 25.

Grosswelschede, Julius, and G. Reichenbecher, Mulheim-Ruhr, assignors to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Manufacture of highest-pressure conduits. 1,685,402; Sept. 25.

Grounds, Wick. (See Morris, O. E., Crumrine, and Grounds.)

Guerin, Cornelius F., assignor of one-half to N. M. Guinsburg, New York, N. Y. Jack. 1,685,097; Sept. 25.

Guggenheim Brothers. (See Burdick, Charles L., assignor.)

Guinsburg, Nathan M. (See Guerin, Cornelius F., assignor.)

Guinzburg, George K., Chappaqua, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Hat protector. 1,685,556; Sept. 25.

Gulliford, Nicholas L., Peabody, assignor to Gregory & Read Company, Boston, Mass. Heel-dropping machine. 1,685,743; Sept. 25.

Gunning, William A., assignor to American Optical Company, Southbridge, Mass. Lens-grinding machine. 1,685,139; Sept. 25.

Guthrie, Eugene P., Dallas, Tex. Garden tool. 1,685,217; Sept. 25.

Haas, Gertrude M., executrix. (See Haas, Jackson O.)

Haas, Jackson O., deceased, Philadelphia, Pa.; G. M. Haas, executrix. Bottle seal and finishing the same. 1,685,744; Sept. 25.

Hager, Harold H., Point Place, Ohio. Screen for vehicle window frames. 1,685,587; Sept. 25.

Hale, Joseph H., Linden, Calif. Scraper. 1,685,487; Sept. 25.

Haller, Josef, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Halogenides of aromatic oxaminic acids. 1,685,698; Sept. 25.

Halloway, Ernest T., Milwaukee, Wis. Automobile body. Des. 76,392; Sept. 25.

Hammond, Cecil F., and W. Shackleton, London, England. Combined step and wall or extension ladder. 1,685,632; Sept. 25.

Hammond, Guy L., L. H. Messinger, jr., and W. Nicholas, assignors to The Black Rock Manufacturing Company, Bridgeport, Conn. Rubber-ring-cutting machine. 1,685,127; Sept. 25.

Hansen, Peter V., Salem, S. Dak. Engine-cooling fan. 1,685,323; Sept. 25.

Harcourt, Clyde L., Seattle, Wash. Mechanical manikin. 1,685,358; Sept. 25.

Hardesty, Llewellyn C., Scotia, N. Y., assignor to General Electric Company. Automatic motor starter. 1,685,671; Sept. 25.

Harding, John A., Maricopa, Calif. Spider having mechanically-operated pipe slips. 1,685,284; Sept. 25.

Harnly, David H., Chicago, Ill. Weather strip. 1,685,324; Sept. 25.

Hart, Fred V. (See Winkley, E. E., and Hart.)

Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,685,160; Sept. 25.

Hays, Milton D., Overbrook, Pa. Gravity water motor. 1,685,285; Sept. 25.

Heald Machine Company, The. (See Kempton, H. E., Gallimore, and Woytych, assignors.)

Hecht, Max. (See Rodman, C. J., and Hecht.)

Heenan & Froude Limited. (See Walker, George H., assignor.)

Helman, Samuel. (See Davis, J. P., and Helman.)

Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 76,393; Sept. 25.

Hemming, Carl H., New Haven, Conn. Table cutlery. 1,685,588; Sept. 25.

Hendler, Manuel. (See Cover, Harry C., assignor.)

Herb, Otto J., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating device. 1,685,359; Sept. 25.

Hercules Powder Company. (See Stuart, Joseph 2d, assignor.)

Hershey Manufacturing Company. (See Hershey, Orville S., assignor.)

Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,685,128; Sept. 25.

Heybach, Frederick J., Savannah, Ga. Automatic torch lighter. 1,685,633; Sept. 25.

Hickok, W. O., Manufacturing Company, The. (See Broadmeyer, Albert, assignor.)

Higham, John, Port Richmond, N. Y., assignor to Display Stage Lighting Co. Inc. Electric-cable-coupling connector. 1,685,420; Sept. 25.

Hilliker, Robert E. (See Emons, Ernest E., assignor.)

Hilton, Avery J., Gloucester, Mass. Saxophone. 1,685,129; Sept. 25.

Hobson, Arthur K., assignor to The Hobson and Botts Company, Danbury, Conn. Spoon or similar article. Des. 76,394; Sept. 25.

Hobson and Botts Company, The. (See Hobson, Arthur K., assignor.)

Hodges, Reginald. (See Hodges, Thomas, T. R. W., and R.)

Hodges, Thomas, T. R. W., and R., Cornwall, England. Apparatus for raising and locating submerged vessels. 1,685,540; Sept. 25.

Hodges, Thomas R. W. (See Hodges, Thomas, T. R. W., and R.)

Hoffman, Robert B., Monterey, Calif. Cleaning composition of matter. 1,685,360; Sept. 25.

Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,685,403; Sept. 25.

Holt, John W., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Vehicle wheel structure. 1,685,130; Sept. 25.

Holt, Joseph H., assignor to Darco Corporation, Wilmington, Del. Revivifying furnace. 1,685,745; Sept. 25.

Homans, William P., Canton, assignor to Alsatian Machine Words, Limited, Boston, Mass. Bearing for top-doffing rolls. 1,685,218; Sept. 25.

Honaman, Richard K., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Multiwinding discharge balance coil. 1,685,161; Sept. 25.

Hood Rubber Company. (See Glidden, A. A., and Knowland, assignors.)

Hoppmann, Georg P., Brooklyn, N. Y. Swimming apparatus. 1,685,083; Sept. 25.

Housley, William F., Annapolis, and E. G. Townsend, Camp Parole, Md. Valve-spring compressor. 1,685,548; Sept. 25.

Howard, William H., Salt Lake City, Utah. Recovery of sulphur. 1,685,231; Sept. 25.

Hoyt, John T., Hazleton, Pa., assignor to United Filters Corporation, New York, N. Y. Apparatus for separating liquid from pulp fibers. 1,685,084; Sept. 25.

Hoyt, John T., Hazleton, Pa., assignor to United Filters Corporation, New York, N. Y. Dewatering apparatus. 1,685,085; Sept. 25.

Hubbell, Harvey, Incorporated. (See Hubbell, Harvey, jr., assignor.)

Hubbell, Harvey, jr., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Cap and shell fastening. 1,685,361; Sept. 25.

Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for converting hydrocarbons. 1,685,488; Sept. 25.

Hughes, Hugh R., assignor of one-fourth to D. R. Frost, one-fourth to H. A. Mutch, and one-fourth to H. J. Papineau, Kellogg, Idaho. Tire-deflation signal. 1,685,325; Sept. 25.

Hummer, Charles L., Newark, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-car coil heater. 1,685,131; Sept. 25.

Humphreys, Eric J., Lancaster, Pa., assignor to Armstrong Cork Company. Linoleum or similar hard-surfaced floor covering. Des. 76,395; Sept. 25.

Hunter, Percy, E., Pittsburgh, Pa., assignor of one-half to B. West, Weirton, W. Va. Tinning pot. 1,685,162; Sept. 25.

Huntington, Edward E., assignor to The Willys-Overland Company, Toledo, Ohio. Dash light. 1,685,421; Sept. 25.

Hupp Motor Car Corporation. (See Punke, John J., assignor.)

Hurlburt, Dane, Cannes, France. Parachute. 1,685,422; Sept. 25.

Hurlburt, Lee R., assignor to Pennsylvania Rubber Company, Jeannette, Pa. Making tennis balls. 1,685,423; Sept. 25.

Hurrell, Guy C., Blackheath, London, England. Emulsification apparatus. 1,685,424; Sept. 25.

Huston, Charles L. (See Goodfellow, Alfred, assignor.)

Hutchinson, Orrin F. (See Mau, E. A., and Hutchinson.)

Hutchison, Miller R., Llewelyn Park, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Loud-speaker unit. 1,685,086; Sept. 25.

Hymans, Frederick, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator safety appliance. 1,685,232; Sept. 25.

I. G. Farbenindustrie Aktiengesellschaft. (See Dohmaier, Karl, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Nüsslein, Joseph, assignor.)

Indiana Lamp Corporation. (See Springer, Edgar D., assignor.)

International Harvester Company. (See Benjamin, Bert R., assignor.)

International Harvester Company. (See Dwyer, William C., assignor.)

International Harvester Company. (See Engstrom, Gustaf W., assignor.)

International Motor Company. (See Jupp, William B., assignor.)

International Motor Company. (See Masury, Alfred F., assignor.)

International Silver Company. (See Theobald, Jean, assignor.)

Jackson, George P., Flushing, assignor to Combustion Engineering Corporation, New York, N. Y. Tile-anchoring device. 1,685,568; Sept. 25.

Jacobson, Alvin E. (See Johnson, Paul A., assignor.)

Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Purification of benzoic acid and its derivatives. 1,685,634; Sept. 25.

Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of anthracene. 1,685,635; Sept. 25.

Jaeger, Alphons O., Pittsburgh, assignor to The Selden Company, Pittsburgh, Pa. Catalytic apparatus. 1,685,672; Sept. 25.

Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumper. Des. 76,396; Sept. 25.

Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 76,397; Sept. 25.

Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 76,398; Sept. 25.

Jansen, Carl, New York, N. Y. Lace for footwear. 1,685,489; Sept. 25.

Jeanson, Marl, Etrelles, France. Combined rake and binding apparatus. 1,685,163; Sept. 25.

Jefferson Forge Products Company. (See Wilber, Carl L., assignor.)

Jensen, John, assignor to Whitney Metal Tool Company, Rockford, Ill. Hand punch and the like. 1,685,604; Sept. 25.

Jewett, John R., jr., Grand Island, Nebr. Dishpan holder for sinks. 1,685,233; Sept. 25.

Joannides, Christie, London, England. Artificial teeth and fixing the same. 1,685,541; Sept. 25.

Johanson, Adolph T., assignor of one-half to M. E. Page, jr., Chicago, Ill. Water-heating unit. 1,685,453; Sept. 25.

Johansson, Ernest G. (See Palmer, G. E., and Johansson.)

Johansson, Ernest G., Boston, assignor, by mesne assignments, to The Palmer Electric & Manufacturing Co., Waltham, Mass. Casing for safety switches. 1,685,490; Sept. 25.

Johnson, Carl, Los Angeles, Calif. Testing device for valves. 1,685,454; Sept. 25.

Johnson, Carl M., Chicago, Ill. Nailing strip or block. 1,685,491; Sept. 25.

Johnson, George A., assignor to W. H. Miner, Inc., Chicago, Ill. Draft-rigging-key retainer. 1,685,164; Sept. 25.

Johnson, Gustav, West Roxbury, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,685,404; Sept. 25.

Johnson, Harold M., St. Louis, Mo. Apparatus for reaming smoking pipes. 1,685,087; Sept. 25.

Johnson, Norman E., Chicago, Ill. Automobile radiator cap. 1,685,405; Sept. 25.

Johnson, Paul A., assignor of one-half to A. E. Jacobson, Grand Haven, Mich. Toilet-seat hinge. 1,685,088; Sept. 25.

Johnson, William S., and J. W. Sheffer, Berwick, Pa., assignors to American Car and Foundry Company, New York, N. Y. Electric heater for long bars. 1,685,133; Sept. 25.

Joiner, Sylvester L., McGregor, Tex. Combined grain-door strip and side-door-post protector. 1,685,197; Sept. 25.

Joiner, Sylvester L., McGregor, Tex. Combined wear plate and centering device for draft-rigging keys for railway cars. 1,685,455; Sept. 25.

Jones, E. D., et al. (See Jones, W. S., and Baker, assignors.)

Jones, Felix B., Chicago, Ill. Firearm. 1,685,673; Sept. 25.

Jones, Winfield S., et al. (See Jones, W. S., and Baker, assignors.)

Jones, Winfield S., Brea, and H. U. Baker, assignors of three-eighths to W. S. Jones, two-eighths to H. U. Baker, and three-eighths to E. D. Jones, Los Angeles, Calif. Perforator. 1,685,492; Sept. 25.

Jordan, James D., assignor to The Ken-Rad Corporation, Owensboro, Ky. Thermionic vacuum tube. 1,685,326; Sept. 25.

Joseph, William C., Fort Worth, Tex. Fastening device for floor coverings. 1,685,362; Sept. 25.

Joslyn Manufacturing & Supply Co. (See Smalley, Burton M., assignor.)

Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Car-tank-dome closure. 1,685,132; Sept. 25.

Judd, H. L., Company. (See Vermillion, Raymond H., assignor.)

Jupp, William B., Brooklyn, assignor to International Motor Company, New York, N. Y. Removable-unit mounting. 1,685,569; Sept. 25.

Kall, Simon, Akron, Ohio. Automatic feeding mechanism for tapping machines. 1,685,542; Sept. 25.

Kalkanis, James N., Detroit, Mich. Candy-making device. 1,685,005; Sept. 25.

Kammerer, Archer W., Fullerton, Calif. Well-drilling bit. 1,685,327; Sept. 25.

Kapff, Karl F., et al. (See Auble, Lawrence, assignor.)

Kassler, Adolph, assignor to American Car and Foundry Company, New York, N. Y. Hopper car. 1,685,089; Sept. 25.

Katcher, Morris, assignor to Columbia Metal Box Co., New York, N. Y. Quick-make-and-break electric switch. 1,685,234; Sept. 25.

Kearney, George F, Andalusia, assignor to Bulletin Co., Philadelphia, Pa. Badge or similar article. Des. 76,399; Sept. 25.

Keedy, Edward J., Schenectady, N. Y. Toy magnetic crane. 1,685,707; Sept. 25.

Kelleher, Patrick J., Salem, Mass. Battery composition. 1,685,674; Sept. 25.

Kelly, Harry G., Omaha, Nebr. Roofing strip. 1,685,493; Sept. 25.

Kelly, John A., Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat fitting and molding machine. 1,685,363; Sept. 25.

Kemp, Joseph, Baltimore, Md. Tube-drawing plug. 1,685,630; Sept. 25.

Kempter, Fritz, Stuttgart, Germany. Kneading machine. 1,685,637; Sept. 25.

Kempton, Herbert E., K. F. Gallimore, and R. M. Woytych, Fond du Lac, Wis., assignors, by mesne assignments, to the Heald Machine Company, Worcester, Mass. Chuck. 1,685,235; Sept. 25.

Ken-Rad Corporation, The. (See Jordan, James D., assignor.)

Kendall, William G. (See MacDougall, H., and Kendall.)

Kern, Fred T., Milwaukee, Wis. System for storing and handling material. 1,685,675; Sept. 25.

Kern, Leo, Villingen in Baden, assignor to Kienzle Uhrenfabriken Aktiengesellschaft, Schwenningen-on-the-Neckar, Germany. Fare indicator. 1,685,589; Sept. 25.

Kevitt, Tice C., Athenia, N. J. Bird house. Des. 76,400; Sept. 25.

Key, Frederick E., East St. Louis, Ill. Apparatus for dispensing ice cream and the like. 1,675,250; Sept. 25.

Keys, John H., assignor to The Dayton Irrigation Company, Dayton, Ohio. Sprinkler. 1,685,165; Sept. 25.

Keyser, Harry M. (See Combes, A. L., and Keyser.)

Kienzle Uhrenfabriken Aktiengesellschaft. (See Kern, Leo, assignor.)

Kimman, Theodore P., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Cleaning and polishing wheel. 1,685,406; Sept. 25.

Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Condensed clutch for reversing mechanisms. 1,685,638; Sept. 25.

Kleinert, I. B., Rubber Company. (See Guinzburg, George K., assignor.)

Knesch, Adolph, Rule, Tex. Lock and latch. 1,685,708; Sept. 25.

Knowland, Thomas M. (See Glidden, A. A., and Knowland.)

Koch, Jacob, Buffalo, N. Y. Shelf strip. 1,685,456. Sept. 25.

Koch, Lydia B., assignor to Reinforced Paper Bottle Corporation, New York, N. Y. Constructing bottle-receptacle elements. 1,685,494; Sept. 25.

Kogler, Albert P. (See Kogler, Elsa S. and A. P.)

Kogler, Elsa S. and A. P., San Francisco, Calif. Sanitary brush. 1,685,328; Sept. 25.

Kopatz, Erich T. P., Dearborn, Mich. Electric water heater. 1,685,364; Sept. 25, 1928.

Koster, John, San Francisco, Calif. Smoking stand. Des. 76,401; Sept. 25.
Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Lighting-fixture bar or article of analogous nature. Des. 76,402; Sept. 25.
Krauth, Julius, Sontheim-Heilbronn, Germany. Apparatus for playing skittles. 1,685,699; Sept. 25.
Kulenkampff, Carl A., New York, N. Y. Brick-ice-cream cutter. 1,685,700; Sept. 25.
Kwik-Mix Concrete Mixer Co. (See Gilson, Michael, assignor.)
Lackner, Michael J., Dortmund, Germany. Burner for regenerative furnaces. 1,685,543; Sept. 25.
Ladd, Charles W., Chipman, assignor of one-half to T. Sing, Edmonton, Alberta, Canada. Hillside plow. 1,685,365; Sept. 25.
La France, Richard, Toledo, Ohio. Differential timing device. 1,685,166; Sept. 25.
Lagall, Leo, El Reno, Okla. Internal-combustion engine. 1,685,639; Sept. 25.
La Hodny, William, assignor to Standard Mirror Co. Inc., Buffalo, N. Y. Mirror bracket. 1,685,544; Sept. 25.
Lake, Willett R. (See Tucker, Carl L., assignor.)
Lamb, Donald C., assignor to Taylor Instrument Companies, Rochester, N. Y. Pressure-responsive instrument of the Bourdon spring type. 1,685,457; Sept. 25.
Lamson and Sessions Company, The. (See Province, John and B., assignors.)
Lang, Andrew, Edmonton, Alberta, Canada. Automobile body. Des. 76,403; Sept. 25.
Lapointe, J. N., Company, The. (See West, Donald H., assignor.)
La Porte, Ralph P. (See Pitkin, A. F., and La Porte.)
Larrowe Construction Company. (See Tressler, Donald K., assignor.)
Larsh, Everett P., assignor to The Master Electric Company, Dayton, Ohio. Short circuiter. 1,685,549; Sept. 25.
Larson, John M., assignor to National Regulator Company, Chicago, Ill. Fluid-pressure-control valve. 1,685,286; Sept. 25.
Latz, Harry, assignor to Harry Latz Service, Inc., New York, N. Y. Device for creating accuracy in the art of boxing. 1,685,495; Sept. 25.
Latz, Harry, Service, Inc. (See Latz, Harry, assignor.)
Lavault, André, Paris, France, assignor to Associated Merchandising Corporation. Bottle for perfume or the like. Des. 76,405; Sept. 25.
Lavell, Lulu V., Minneapolis, Minn. Thermometer frame. Des. 76,404; Sept. 25.
Lawson, Joseph, Great St. Helens, London, assignor to Asiatic Petroleum Company, Limited, St. Helens Court, London, England. Plug cock. 1,685,236; Sept. 25.
Leash, Homer E., Oakland, Calif. Defective-lumber-repairing machine. 1,685,366; Sept. 25.
Leaver, James M., Oakland, assignor to The Pacific Lumber Company, San Francisco, Calif. Method and apparatus for making artificial silk. 1,685,640; Sept. 25.
Lee, Adelbert E., Akron, Ohio. Brake. 1,685,709; Sept. 25.
Lee, Harry S., Plymouth, Mich. Permanent mold construction. 1,685,545; Sept. 25.
Lee, Harry S., Plymouth, Mich. Controlling metal castings. 1,685,546; Sept. 25.
Lee, John, and C. Pearson, Ingersoll, Ontario, Canada. Sheet-metal container. 1,685,367; Sept. 25.
Leigh, Fred A., Chicago, Ill. Cutter attachment. 1,685,590; Sept. 25.
Leon, Lewicki J., West Chicago, Ill. Parrot stand. Des. 76,406; Sept. 25.
Leon, Lewicki J., West Chicago, Ill. Bird cage. Des. 76,407; Sept. 25.
Leonhart, Henry A., Bangor, Wis. Furnace. 1,685,710; Sept. 25.
Leopold, Samuel N., assignor to Rose Display Box Company, Chicago, Ill. Display box. 1,685,606; Sept. 25.
Levien, Louis, New York, N. Y. Vanity tray. 1,685,237; Sept. 25.
Levine, Max, Brooklyn, N. Y. Binding. 1,685,607; Sept. 25.
Lidback, Leonard P., Honolulu, Hawaii. Airship. 1,685,458; Sept. 25.
Lifter, Anna, New York, N. Y. Apparel. 1,685,091; Sept. 25.
Lifshitz, Alex M., Brooklyn, N. Y. Automatic drum. 1,685,090; Sept. 25.
Lindemann, A. J., & Hoverson Company. (See Rutenber, Edwin A., assignor.)
Link-Belt Company. (See Petersen, J. H. D., and Wilson, assignors.)
Linn, Holman H., assignor to The Linn Manufacturing Corporation, Morris, N. Y. Vehicle drive. 1,685,641; Sept. 25.
Linn, Holman H., assignor to The Linn Manufacturing Corporation, Morris, N. Y. Tractor. 1,685,676; Sept. 25.
Linn Manufacturing Corporation, The. (See Linn, Holman H., assignor.)
Lipke, Frank, Mishawaka, Ind. Dirigible headlight. 1,685,092; Sept. 25.
Lipschutz George, Philadelphia, Pa. Electric attachment plug. 1,685,608; Sept. 25.
Litty, John R., and T. B. Lundin, Philadelphia, Pa. Subdividing attachment for measuring machines. 1,685,425; Sept. 25.
Ljunglof, George L., assignor to American Optical Company, Southbridge, Mass. Workholder. 1,685,167; Sept. 25.
Lochrie, Thomas, et al. (See Adams, Ervin, assignor.)
Loewe, Siegmund, Berlin-Friedenau, Germany, assignor to Radio Corporation of America. Station scale. 1,685,426; Sept. 25.
Lomax, Clarence E., Oak Park, assignor to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,685,547; Sept. 25.
Lorentzen, Hans K., New York, N. Y. Coin box. 1,685,219; Sept. 25.
Lorenz, William A., West Hartford, assignor to The Otaka Fabric Company, Hartford, Conn. Machine and drying crinkled paper. 1,685,427; Sept. 25.
Lowry, Michael J., Los Angeles, Calif. Toy baseball game. 1,685,428; Sept. 25.
Ludw. Loewe & Co. Actiengesellschaft. (See Storck, Walter, assignor.)
Luipersbek, Frank, Boundbrook, N. J. Wind vane. 1,685,134; Sept. 25.
Lund, Isaac, Chicago, Ill. Radiocabinet. Des. 76,408; Sept. 25.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing machine. 1,685,368; Sept. 25.
Lundin, Trued B. (See Litty, J. R., and Lundin.)
Lykken, Henry G., Minneapolis, Minn. Low-temperature distillation apparatus. 1,685,496; Sept. 25.
Lynch, Charles J., San Francisco, Calif. Alarm mechanism. 1,685,329; Sept. 25.
Lynch, Charles W., Perry, Okla., assignor to Pickering Lumber Company, Kansas City, Mo. Corner plate for derricks. 1,685,711; Sept. 25.
MacClatchie, John W., Compton, Calif. Coupling. 1,685,459; Sept. 25.
MacDougall, Harold, Maplewood, and W. G. Kendall, Newark, N. J. Magazine buffer. 1,685,333; Sept. 25.
Mallinson, H. R., & Co. (See Heinke, Alfred J., assignor.)
Mangan, Michael J., Des Plaines, Ill. Cigarette-package holder. 1,685,765; Sept. 25.
Mann, James H., jr., Mont Eagle, Tenn., assignor to Southwestern Sales Corporation, New York, N. Y. Coin-detecting vending machine. 1,685,550; Sept. 25.
Mann, James H., jr., St. Petersburg, Fla., assignor to Southwestern Sales Corporation, New York, N. Y. Spurious-coin segregator. 1,685,551; Sept. 25.
Mannich, Charles, Frankfort-on-the-Main, Germany. Dicyclic derivatives of pentamethylene and manufacture of same. 1,685,407; Sept. 25.
Mark, Abraham F., Cedar Rapids, Iowa. Humidifier. 1,685,198; Sept. 25.
Marsh, Jas. P., & Company. (See Rose, Alexander D. assignor.)
Marshall, Draper T., Vancouver, British Columbia, Canada. Food cabinet. 1,685,712; Sept. 25.
Maroney, John M., Oakland, Calif. Direction-indicating signal. 1,685,330; Sept. 25.
Martin, George C., Los Angeles, Calif. Shock absorber. 1,685,497; Sept. 25.
Martin, John H., Central Park, N. Y. Preparation of fur for shrinking and felting. 1,685,168; Sept. 25.
Martin, John H., Central Park, N. Y. Preparation of fur for shrinking and felting. 1,685,169; Sept. 25.
Masing, Georg, Berlin, and O. Dahl, Berlin-Charlottenburg, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Improving the qualities of nickel beryllium alloy. 1,685,570; Sept. 25.
Master Electric Company, The. (See Larsh, Everett P., assignor.)
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Brake. 1,685,429; Sept. 25.
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Suspension for electric railway motors. 1,685,430; Sept. 25.
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp. 1,685,431; Sept. 25.
Mau, Edward A., and O. F. Hutchinson, New Haven, Conn., assignors, by mesne assignments, to Rockbestos Products Corporation. Insulated wire. 1,685,369; Sept. 25.
Maxwell, Howard, Schenectady, N. Y., assignor to General Electric Company. Induction motor. 1,685,677; Sept. 25.
McCarthy, Charlotte E., et al. (See Auble, Lawrence, assignor.)
McCarty, William J., Murdock, Minn. Foot-operated steering gear. 1,685,332; Sept. 25.
McClure, Elmer P., La Grange, Ill. Light-projecting device. 1,685,609; Sept. 25.
McCormick, Francis H., Glen Ellyn, assignor to Edison Electric Appliance Company, Inc., Chicago, Ill. Water heater. 1,685,642; Sept. 25.
McCullough, Paul J., assignor to Scullin Steel Co., St. Louis, Mo. Magnetic pulley. 1,685,498; Sept. 25.
McDonald, Alexander, Pittsburgh, and W. O. Smith, Wilkinsburg, assignors of seventy one-hundredths to J. C. Young, Pittsburgh, Pa., and thirty one-hundredths to said Smith. Ventilator for chimneys. 1,685,170; Sept. 25.
McDonald, Leslie R., Westmount, Montreal, Quebec, Canada. Display apparatus. 1,685,499; Sept. 25.
McDowell, William R., Las Vegas, Nev. Derrick walking beam. 1,685,238; Sept. 25.

McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Pitcher or similar article. Des. 76,409; Sept. 25.
McEntire, Frank M., Milwaukee, Wis. Bathtub dressing table for children. 1,685,093; Sept. 25.
McEvoy, Joseph H., jr., Houston, Tex. Forming well strainers. 1,685,287; Sept. 25.
McKee Glass Company. (See Richardson, Joseph S., assignor.)
McLaughlin, Herrold L. (See McLaughlin, Wilson L. and H. L.)
McLaughlin, Wilson L. and H. L., Des Moines, Iowa. Apparatus for feeding powdered fuel. 1,685,331; Sept. 25.
McVicker, Walter J., and A. R. Sandt, assignors to Enterprise Machinery Company, Minneapolis, Minn. Separable tractor dump wagon. 1,685,171; Sept. 25.
Mead, Homer A., Turlock, Calif. Open-end adjustable wrench. 1,685,432; Sept. 25.
Meller, Reginald B., Alameda, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Display stand. 1,685,571; Sept. 25.
Mendez, Alvaro, East Orange, N. J., assignor to American Car and Foundry Company, New York, N. Y. Stanchion bracket. 1,685,135; Sept. 25.
Merrill, Arthur H., Hartford, Conn. Key case. 1,685,288; Sept. 25.
Messinger, Lester H. (See Hammond, G. L., Messinger, and Nicholas.)
Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. 1,685,500; Sept. 25.
Meyerhofer, Albert. (See Buchner, Max, assignor.)
Micali, John, Lawrence, Mass. Handle-securing means for shank-forming tools. 1,685,643; Sept. 25.
Michaud, Arthur J., Montreal, Quebec, Canada. Tire and rim. 1,685,552; Sept. 25.
Michel, Gilbert, Bagneux, assignor to H. O. Berg, Paris, France. Sand mold for casting magnesium and making same. 1,685,553; Sept. 25.
Mid-West Manufacturing Company. (See Benedict, George W., assignor.)
Middleton, Edmund B., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Acylating carbohydrates. 1,685,220; Sept. 25.
Miles, James C., Cleveland, Ohio. Hot-air heating and ventilating apparatus. Re17,089; Sept. 25.
Miller, Clement G., Kansas City, Mo. Artificial teeth. 1,685,289; Sept. 25.
Milton, John L., Louisville, Ky., assignor to Cheatham Electric Switching Device Company. Switch-throwing device. 1,685,172; Sept. 25.
Miner, W. H., Inc. (See Haseltine, Stacey B., assignor.)
Miner, W. H., Inc. (See Johnson, George A., assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Mirfield, George E., Youngstown, Ohio. Manufacturing pipe couplings. 1,685,678; Sept. 25.
Mitchell, Harry W. (See Evans, Floyd G., assignor.)
Molz, Emil, Halle-on-the-Saale, assignor to Chemische Fabrik Ludwig Meyer, Mayence, Germany. Dry fungicide. 1,685,715; Sept. 25.
Montgomery, Herbert D., New York, N. Y. Thermostatically-controlled circuit closer. 1,685,136; Sept. 25.
Moody, Joseph F., Tulsa, Okla. Oil-well elevator. 1,685,713; Sept. 25.
Moore, Arlington, Worcester, Mass. Paper container having body with renitent neck and making same. 1,685,370; Sept. 25.
Moore, Henry A. (See Stuart, T. F., and Moore.)
Moorer, Thaddeus B., Charleston, S. C. Rheostat. 1,685,714; Sept. 25.
Moran, Charles A., Bernardsville, N. J. Reciprocating-saw machine. 1,685,239; Sept. 25.
Morgan, John R. (See Jandus, H. S., and Morgan.)
Morris, Onas E., G. E. Crumrine, and W. Grounds, Cedar Hill, Tex. Cotton-planter attachment. 1,685,554; Sept. 25.
Morse, Clark T., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Heating and ventilating apparatus. 1,685,610; Sept. 25.
Morse, Lawrence H., assignor to The American Multigraph Company, Cleveland, Ohio. Printing press. 1,685,611; Sept. 25.
Mosher, James H., Schenectady, N. Y., assignor to General Electric Company. Support for vacuum tubes. 1,685,766; Sept. 25.
Motor Industries, Inc. (See Bethenod, Joseph, assignor.)
Motor Terminals Company. (See Fitch, Benjamin F., assignor.)
Mounts, Daniel D., Los Angeles, Calif. Phonograph. 1,685,433; Sept. 25.
Muentener, Christian, Bogota, N. J. Stair rod. 1,685,679; Sept. 25.
Mullen, George B., Stroud, Okla. Oil-derrick anchor. 1,685,716; Sept. 25.
Muller, Leopold, Schonbach, Czechoslovakia. Tuning device. 1,685,717; Sept. 25.
Munters, Carl G. (See von Platen, B. C., and Munters.)
Murdoch, Alexander G., London, England. Lever linkwork apparatus. 1,685,718; Sept. 25.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricant-expelling device. 1,685,408; Sept. 25.
Mutch, Harry A., et al. (See Hughes, Hugh R., assignor.)
Myers, Arthur L., assignor to Northern Engraving Company, La Crosse, Wis. Name plate. 1,685,334; Sept. 25.
Myers, Wilson R., and B. O. Opitz, Portland, Oreg. Depositing apparatus. 1,685,460; Sept. 25.
National Lace and Embroidery Company. (See Schmid, Werner.)
National Malleable and Steel Castings Company. (See Holt, John W., assignor.)
National Regulator Company. (See Larson, John M., assignor.)
National Screw and Manufacturing Company, The. (See Erdman, Harvey C., assignor.)
Natural Color Pictures Company. (See Fox, William F., assignor.)
Neill, David S., Genoa, Italy. Lifeboat. 1,685,719; Sept. 25.
Nellson, Albert A., Beachwood, N. J. Combination saw and square. 1,685,721; Sept. 25.
Nelson, Albert, Buffalo, Minn. Operating means for musical instruments. 1,685,240; Sept. 25.
Nelson, Gust, assignor of one-half to F. R. Pendleton, Vancouver, British Columbia, Canada. Floating tensions for cableways. 1,685,720; Sept. 25.
Neumann, Karl, Milwaukee, Wis. Artificial limb. 1,685,290; Sept. 25.
New Departure Manufacturing Company, The. (See Baldwin, Harry G., assignor.)
New Martinsville Glass Mfg. Co. (See McEldowney, Robert E., assignor.)
Newton, Merle M., Cragmor, Colo. Ore-concentrating device. 1,685,644; Sept. 25.
Niagara Electro Chemical Company, The. (See Baum, Gustav, assignor.)
Nicholas, William. (See Hammond, G. L., Messinger, and Nicholas.)
Nichols, Charles R., New York, N. Y. Power transmission. 1,685,371; Sept. 25.
Nichols, Charles R., New York, N. Y. Gear transmission. 1,685,461; Sept. 25.
Nichols, Daniel R., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Foldable seat. 1,685,137; Sept. 25.
Nicholson, Robert M., Liberty, Tex. Gaming device. 1,685,291; Sept. 25.
Niles-Bement-Pond Company. (See Cole, Lyndon C., assignor.)
Niles-Bement-Pond Company. (See Parkes, Albert W., assignor.)
Noble, Arthur H., Pawtucket, assignor to Theodore W. Foster & Brother Company, Providence, R. I. Lip-stick holder. 1,685,768; Sept. 25.
Noble, Arthur H., Pawtucket, assignor to Theodore W. Foster & Brother Company, Providence, R. I. Lip-stick holder. 1,685,769; Sept. 25.
Nohr, Chris, Pasadena, and P. Nohr, Los Angeles, Calif. Machine for rolling soles. 1,685,555; Sept. 25.
Nohr, Peter. (See Nohr, Chris and P.)
North East Electric Company. (See Connolly, William B., assignor.)
North East Electric Company. (See Dorsey, Farnum F., assignor.)
North East Electric Company. (See Sullivan, Raymond H., assignor.)
North East Electric Company. (See Wallis, Cyril T., assignor.)
Northern Engraving Company. (See Myers, Arthur L., assignor.)
Northup, Amos E., Detroit, Mich. Closed vehicle body. Des. 76,410; Sept. 25.
Northrup, Annabelle S., Norfolk, Va. Insect trap. 1,685,241; Sept. 25.
Norton, James G., Leonia, N. J. Paper container. 1,685,138; Sept. 25.
Nowaik, Frank T., Scranton, Pa. Jack-hammer support. 1,685,372; Sept. 25.
Nüsslein, Joseph, Ludwigshafen-on-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-Main, Germany. Fulling wool and the like. 1,685,680; Sept. 25.
Nye, Henry V., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. System of distribution. 1,685,746; Sept. 25.
Nye, Henry V., West Allis, assignor to Allis-Chalmers Company, Milwaukee, Wis. System of distribution. 1,685,747; Sept. 25.
Oakes, Raymond H., assignor to R. H. Comey, Brooklyn Company, Inc., Brooklyn, N. Y. Treating hats and the like. 1,685,199; Sept. 25.
Oakley, Edward C. F., Norbury, England. Apparatus for delivering measured quantities of liquids. 1,685,409; Sept. 25.
Oakley, Laurence M., Trenton, N. J. Shoe sole. Des. 76,411; Sept. 25.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,685,173; Sept. 25.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator-car-door-operating mechanism. 1,685,174; Sept. 25.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,685,175; Sept. 25.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism. 1,685,176; Sept. 25.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill., Buffing mechanism. 1,685,177; Sept. 25.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Buffing mechanism. 1,685,178; Sept. 25.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,685,612; Sept. 25.
Obagen, Heinrich, Breslau, Germany. Milling cutter for cutting sharply-pointed angular incisions into wood. 1,685,373; Sept. 25.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Ohio Foundry and Manufacturing Company, The. (See Sharp, William L., assignor.)
Ohison, John B., assignor to The Vortex Mfg. Co., Chicago, Ill. Dispensing container and dispensing articles therefrom. 1,685,292; Sept. 25.
Ohse, Walter R. (See Smiley, G. T., and Ohse.)
Onsrud Machine Works, Inc. (See Onsrud, Oscar, assignor.)
Onsrud, Oscar, assignor to Onsrud Machine Works, Inc., Chicago, Ill. Woodworking machine. 1,685,572; Sept. 25.
Onsrud, Oscar, assignor to Onsrud Machine Works, Chicago, Ill. Woodworking machine. 1,685,613; Sept. 25.
Opitz, Bernhard O. (See Myers, W. R., and Opitz.)
Ormsbee, Willard A., Taunton, Mass. Tie clip. Des. 76,412; Sept. 25.
Osborn, Robert T., Richmond, assignor, by mesne assignments to Standard Oil Company of California, San Francisco, Calif. Recovery of vapors. 1,685,501; Sept. 25.
Otis Elevator Company. (See Bjorkman, Axel W., assignor.)
Otis Elevator Company. (See Brady, Thomas, assignor.)
Otis Elevator Company. (See Hymans, Frederick, assignor.)
Otaka Fabric Company, The. (See Lorenz, William A., signor.)
Owen, Robert V., New York, N. Y. Pedometer. 1,685,242; Sept. 25.
Owens Bottle Company, The. (See Soubier, Leonard D., assignor.)
Oxford Varnish Corporation. (See Brown, Robert F., assignor.)
P & M Company, The. (See Warr, Harold G., assignor.)
Pacific Coast Borax Company. (See Cramer, Thomas M., assignor.)
Pacific Lumber Company, The. (See Leaver, James M., assignor.)
Page, Milton E., jr. (See Johanson, Adolph T., assignor.)
Palmer Electric & Manufacturing Co., The. (See Johansson, Ernest G., assignor.)
Palmer Electric and Manufacturing Company, The. (See Palmer, G. E., and Johansson, assignors.)
Palmer, Granville E., Brookline, and E. G. Johansson, Boston, assignors, by mesne assignments, to The Palmer Electric and Manufacturing Company, Waltham, Mass. Switch box. 1,685,462; Sept. 25.
Palmer, Stephen L., Teaneck, N. J. Hot-water bottle or similar article. Des. 76,413; Sept. 25.
Papineau, Harrey J., et al. (See Hughes, Hugh R., assignor.)
Paraffine Companies, The. (See Fuley, Dozier, assignor.)
Paraffine Companies, The. (See Meller, Reginald B., assignor.)
Paramount Textile Machinery Co. (See Prosser, T. W., and Wahlbeck, assignors.)
Parker, William S. (See Stevens, H. R., Parker, Shupert, and Benson.)
Parkes, Albert W., Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, New York, N. Y. Bearing strip for machine-tool ways. 1,685,434; Sept. 25.
Parsons, Charles A., and J. Rosen, Newcastle-on-Tyne, England; said Rosen assignor to said Parsons. Insulation of conductors used in electrical apparatus. 1,685,722; Sept. 25.
Partos, Francis, London, England. Magazine pencil. 1,685,374; Sept. 25.
Paterson, John C., and G. R. Baker, London, England, assignors to Baker Perkins Company, Incorporated, New York, N. Y. Apparatus for sorting and stacking biscuits and other articles. 1,685,335; Sept. 25.
Pathfinder Accessories Corporation, The. (See Savasky, Albert A., assignor.)
Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Side-draft control for tractors. 1,685,375; Sept. 25.
Paull, Roy B., Seattle, Wash. Atomizing, device. 1,685,293; Sept. 25.
Peacock, Robert A., Delaware City, Del. Kick bike. 1,685,614; Sept. 25.
Pearmain, William J., assignor to Twin Disc Clutch Company, Racine, Wis. Clutch and transmission mechanism. 1,685,502; Sept. 25.
Pearson, Charles. (See Lee, J., and Pearson.)
Pederson, Harold G., Syracuse, N. Y. Counterbalancing device. 1,675,748; Sept. 25.
Pedwyn Balancer Corporation. (See Grimes, Charles P., assignor.)
Pelton Water Wheel Co., The. (See Foulds, Charles V., assignor.)
Pendleton, Frank R. (See Nelson, Gust, assignor.)
Pennsylvania Rubber Company. (See Hurlburt, Lee R., assignor.)
Petersen, John H. D., and J. W. Wilson, assignor to Link-Belt Company, Chicago, Ill. Shaker conveyer. 1,685,463; Sept. 25.
Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control system. 1,685,749; Sept. 25.
Pfau, Arnold, Milwaukee, and B. Grob, West Allis, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control system. 1,685,750; Sept. 25.
Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Bearing. 1,685,751; Sept. 25.
Pfauser, Edward M., assignor to Blackhawk Manufacturing Company, Milwaukee, Wis. Socket wrench. 1,685,503; Sept. 25.
Phiffer, Clark R., Schenectady, N. Y., assignor to General Electric Company. Adapter for vacuum tubes. 1,685,767; Sept. 25.
Philbrick, George W., Winthrop, Mass. Dog harness. 1,685,455; Sept. 25.
Phillips, Raymond C., assignor to W. S. Rush & Company, Los Angeles, Calif. Countersink machne. 1,685,200; Sept. 25.
Pickering Lumber Company. (See Lynch, Charles W., assignor.)
Pilley Packing & Flue Brush Manufacturing Company. (See Shultz, Llewellyn B., assignor.)
Pitkin, Arthur F., and E. P. La Porte, Schenectady, N. Y. Gear casing. 1,685,202; Sept. 25.
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Platt, Henry. (See Platt, John W. and H.)
Platt, John W., and H., Harrow, England. Carding engine or machine. 1,685,658; Sept. 25.
Platt, Maitland S. (See Platt, William E. and M. S.)
Platt, William. (See Platt, John, W., and H.)
Platt, William E. and M. S., Toronto, Ontario, Canada. Display device. 1,685,336; Sept. 25.
Polite, Joseph, Detroit, Mich. Memorandum holder for automobile steering wheels. Des. 76,414; Sept. 25.
Pomeranz, Jacob J., Brooklyn, N. Y. Hinge for an eyeglass frame. Des. 76,415; Sept. 25.
Pomilio Brothers Corporation. (See Giordani, Francesco, assignor.)
Pope, Jessie C., Longview, Tex. Railway tie, rail fastener, and rail joint. 1,685,337; Sept. 25.
Porter, Winfield P., Greene, Me. Tire valve. 1,685,376; Sept. 25.
Potter, William W., Pawtucket, R. I. Machine tool. 1,685,556; Sept. 25.
Powell, William H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine and winding therefor. 1,685,752; Sept. 25.
Prosser, Thomas W., and J. H. Wahlbeck, Kankakee, assignors to Paramount Textile Machinery Co., Chicago, Ill. Hosiery-finishing apparatus. 1,685,753; Sept. 25.
Province, Benjamin. (See Province, John and B.)
Province, John and B., assignors to The Lamson and Sessions Company, Kent, Ohio. Cut-off mechanism for metal-working machines. 1,685,377; Sept. 25.
Punga, Edwin A. F., Mulheim-on-the-Ruhr, Germany. Method and device for balancing rotating machine parts. 1,685,094; Sept. 25.
Punke, John J., assignor to Hupp Motor Car Corporation, Detroit, Mich. Escutcheon plate. Des. 76,416; Sept. 25.
Putterman, Benjamin, Brooklyn, N. Y., assignor to American Auto Lamp Co., Inc. Smoker's receptacle. Des. 76,417; Sept. 25.
Radio Corporation of America. (See Loewe, Siegmund, assignor.)
Radio Corporation of America. (See von Ardenne, Manfred, assignor.)
Raeburn, William, Waterbury, Conn., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating device. 1,685,378; Sept. 25.
Ramsay, Erskine, Birmingham, Ala. Rotary dump. 1,685,203; Sept. 25.
Randolph, Oliver W., Toledo, Ohio. Drying. 1,685,338; Sept. 25.
Randolph, Oliver W., Toledo, Ohio. Furnace. 1,685,339; Sept. 25.
Rauch, John D., Lima, Ohio. Motor-truck wheel. 1,685,294; Sept. 25.
Regelsberger, Hermann, Erlangen, Germany. Apparatus for analyzing the alveolar air from the lungs. 1,685,557; Sept. 25.
Reichart, James H., Muncie, Ind. Casing for corn-popping machine. Des. 76,418; Sept. 25.
Reichenbecher, Georg. (See Grosswelschede, J., and Reichenbecher.)
Reinforced Paper Bottle Corporation. (See Koch, Lydia B., assignor.)
Reliance Company, The. (See Wilms, Gustav O., assignor.)
Remark, Isidore J., assignor to The General Tire & Rubber Company, Akron, Ohio. Vehicle tire. Des. 76,419; Sept. 25.
Reppetto, Harvey B., Clyde, Ohio. Hydrocarbon heating stove. 1,685,095; Sept. 25.
Reyrolle, A., & Company Limited. (See Anderson, W., and Clothier, assignors.)
Rhodes, Charles J. (Berry, George W., assignor.)

Rich, Elmer A., jr., Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y. Sand cutting, screening, and piling machine. 1,685,139; Sept. 25.
Rich, John W., Woolrich, Pa. Game pouch. 1,685,243; Sept. 25.
Richardson, Joseph S., assignor to McKee Glass Company, Jeannette, Pa. Dish or similar article. Des. 76,420; Sept. 25.
Richter, Alfred, Doberitz, near Berlin, Germany, assignor to A.-G. für Handels- und Industriewerte Glarus, Glarus, Switzerland. Absorption refrigerating apparatus. 1,685,340; Sept. 25.
Richter, George A., assignor to Brown Company, Berlin, N. H. Recovering sulphur dioxide from waste gases. 1,685,754; Sept. 25.
Rideau, Sidney J., New Orleans, La. License-display device for automobiles. 1,685,558; Sept. 25.
Ring, Joseph J., Milwaukee, and C. Schindler, West Allis, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control system for prime movers. 1,685,755; Sept. 25.
Ring, Joseph J., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotor. 1,685,756; Sept. 25.
Ringe, John C., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 1,685,436; Sept. 25.
Rizzuto, Samuel E. (See Beck, August B., assignor.)
Robbins, Elwin A., Nashua, N. H. Fruit-branding machine. 1,685,645; Sept. 25.
Robins, May J., Katonah, N. Y. Game apparatus. 1,685,723; Sept. 25.
Rock, Michael B., New York, N. Y. Apparatus for teaching sight singing. 1,685,682; Sept. 25.
Rockbestos Products Corporation. (See Mau, E. A., and Hutchinson, assignors.)
Rodin, Charles F., San Francisco, assignor to California Six Wheel Company, Oakland, Calif. Vehicle suspension. 1,685,295; Sept. 25.
Rodman, Clarence J., Wilkinsburg, and M. Hecht, Pittsburgh, Pa. Process and apparatus for reconditioning mineral oils. 1,685,681; Sept. 25.
Roessler & Hasslacher Chemical Company, The. (See Carveth, Hector R., assignor.)
Rogers, Wallace A., Anoka, Minn. Machine for treating grain. 1,685,179; Sept. 25.
Rolscreen Company. (See Dixson, Harry, assignor.)
Rose, Alexander D., assignor to Jas. P. Marsh & Company, Chicago, Ill. Thermometer. Des. 76,421; Sept. 25.
Rose Display Box Company. (See Leopold, Samuel N., assignor.)
Rose Patch and Label Co. (See Rosenthal, Arthur and M., assignors.)
Rosen, Jessel. (See Parsons, C. A., and Rosen.)
Rosenthal, Arthur and M., assignors to Rose Patch and Label Co., Grand Rapids, Mich. Printed label and manufacturing the same. 1,685,140; Sept. 25.
Rosenthal, Julius, Cannstatt-Stuttgart, Germany. Overhead traveling crane for lifting railroad vehicles. 1,685,724; Sept. 25.
Rosenthal, Martin. (See Rosenthal, Arthur and M.)
Rosenzweig, Siegfried, New York, N. Y. Making sound and vibration insulating units. 1,685,244; Sept. 25.
Rossi, Peter, Brooklyn, N. Y. Wall covering. 1,685,573; Sept. 25.
Rowe, Frederick A., Vancouver, British Columbia, Canada. Spectacles. 1,685,725; Sept. 25.
Ruggles, Leonard L., Wheaton, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,685,379; Sept. 25.
Ruggles, William A. (See Brophy, D. H., and Ruggles.)
Ruhman, Richard, assignor of one-half to M. Stern, Essen-Ruhr, Germany. Optical system. 1,685,646; Sept. 25.
Rush, W. S., & Company. (See Phillips, Raymond C., assignor.)
Russell, Harry G., assignor to Consolidated Electric Sign Corporation, Battle Creek, Mich. Sign. Des. 76,422; Sept. 25.
Russo, Calogero, Cleveland, Ohio. Vegetable cutter. 1,685,245; Sept. 25.
Rutenber, Edwin A., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Stove-leg connection. 1,685,096; Sept. 25.
St. Pierre Chain Corporntion. (See St. Pierre, Henry, assignor.)
St. Pierre, Henry, assignor to St. Pierre Chain Corporation, Worcester, Mass. Snap hook. 1,685,201; Sept. 25.
Salbador, Ramon, New Orleans, La. Special sliding trap-door valve and gas-meter protector. 1,685,683; Sept. 25.
Sandford, Dent, Toledo, Ohio. Warpless valve plate. 1,685,615; Sept. 25.
Sandt, Arthur R. (See McVicker, W. J., and Sandt.)
Saurman, Atlee B., Pittsburgh, Pa., assignor, by mesne assignments, to General Cable Corporation. Connecter for sector-shaped conductors. 1,685,437; Sept. 25.
Savasky, Albert A., assignor to The Pathfinder Accessories Corporation, Cleveland, Ohio. Light-control appliance. 1,685,438; Sept. 25.
Saye, John F. (See Sheller, John C., assignor.)
Scaife, Alan M., Pittsburgh, Pa., assignor to Wm. B. Scaife & Sons Company, Container and making the same. 1,685,246; Sept. 25.
Scaife, Wm. B., & Sons Company. (See Scaife, Alan M., assignor.)
Scammell China Company. (See Schnepf, Emil L., assignor.)
Schaefer, Albert N., Minneapolis, Minn. Brush ax. 1,685,141; Sept. 25.
Schaffer, Max, Co. (See Krause, Arthur R., assignor.)
Scheibli, Robert J., jr., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. Journal-box lid. 1,685,097; Sept. 25.
Schellens, Eugene L., Pointe Claire, Quebec, Canada, and J. S. Coffin, jr., Lisbon, N. H., assignor, by mesne assignments, to C-S Engineering Company. Locomotive draft appliance. 1,685,574; Sept. 25.
Schenk, Otto, asignor to C. R. Ballis and C. N. Stemper, Dayton, Ohio. Machine for opening oysters. 1,685,296; Sept. 25.
Scheuer, William, New York, N. Y. Automatic spot-setting machine. 1,685,504; Sept. 25.
Schilling, John M., Lima, Ohio. Cabinet for bottle coolers. Des. 76,423; Sept. 25.
Schindler, Carl. (See Ring, J. J., and Schindler.)
Schlacht, Herman, New York, N. Y. Watch holder. Des. 76,424; Sept. 25.
Schlesinger, August B., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Air-compressor unit. 1,685,616; Sept. 25.
Schmid, Werner, White Plains, assignor to A., E., J., L., and S. Dreifuss, copartners doing business as National Lace and Embroidery Company, New York, N. Y. Embroidered textile fabric. Des. 76,425; Sept. 25.
Schnepf, Emil L., assignor to Scammell China Company, Trenton, N. J. Plate. Des. 76,426; Sept. 25.
Schering, Otto Y., Chicago, Ill. Combined vending jar and base. Des. 76,427; Sept. 25.
Schoeller, Walter, A. Feldt, M. Gehrke, and E. Borgwardt, assignors to the firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Pharmaceutical product. 1,685,341; Sept. 25.
Schoeller, Walter, A. Feldt, M. Gehrke, and E. Borgwardt, assignors to the firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Pharmaceutical product. 1,685,342; Sept. 25.
Schreier, Arthur, Vienna, Austria, assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Liquid-treating material and making same. 1,685,204; Sept. 15.
Scullin Steel Co. (See McCollough, Paul J., assignor.)
Seaholm, Ernest W., and H. J. Earl, assignors to General Motors Corporation, Detroit, Mich. Motor-vehicle front assembly. Des. 76,428; Sept. 25.
Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,685,464; Sept. 25.
Selden Company, The. (See Andrews, Chester E., assignor.)
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Selway, Edward B., Leetsdale, Pa. Studding for building structures. 1,685,247; Sept. 25.
Shackleton, William. (See Hammond, C. F., and Shackleton.)
Sharp, William L., assignor to The Ohio Foundry and Manufacturing Company, Steubenville, Ohio. Gas heater. Des. 76,429; Sept. 25.
Sheffer, John W. (See Johnson, W. S., and Sheffer.)
Sheller, John C., assignor to J. F. Saye, Maywood, Ill. Attachable shower. 1,685,180; Sept. 25.
Sherr, Max. (See Stockov, Max, assignor.)
Shone, Wesley K., Los Angeles, Calif. Brake-testing machine. 1,685,297; Sept. 25.
Shroyer, Jacob L., Oak Park, assignor to Edison Electric Appliance Company, Inc., Chicago, Ill. Regulating temperature. 1,685,647; Sept. 25.
Shultz, Llewellyn B., assignor to Pilley Packing & Flue Brush Manufacturing Company, St. Louis, Mo. Scraping tool. 1,685,380; Sept. 25.
Shupert, Frank W. (See Stevens, H. R., Parker, Shupert, and Benson.)
Siemens & Halske Aktiengesellschaft. (See Masing, G., and Dahl, assignors.)
Siena, Edward U., Cleveland, Ohio. Valve. 1,685,298; Sept. 25.
Silverman, Joseph, Chicago, Ill. Shoe-shining stand. 1,685,648; Sept. 25.
Simmons Company. (See Gail, John F., assignor.)
Simmons Company. (See Vollmer, William A., assignor.)
Simpson, Fredrick C. (See Allen, G., jr., and Simpson.)
Simpson, Walter S., assignor to The United Electric Company, Canton, Ohio. Vacuum-cleaner attachment. 1,685,299; Sept. 25.
Sing, Tom. (See Ladd, Charles W., assignor.)
Singer Manufacturing Company, The. (See Binge, John C., assignor.)
Sklovsky, Max, assignor to Deere & Company, Moline, Ill. Driving key. 1,685,098; Sept. 25.
Smalley, Burton M., assignor to Joslyn Manufacturing & Supply Co., Chicago, Ill. Insulator support. 1,685,684; Sept. 25.
Smiley, George T., and W. R. Ohse, Houston, Tex. Refrigerating apparatus. 1,685,505; Sept. 25.
Smith, Abraham, Erie, Pa. Bookkeeping machine. 1,685,685; Sept. 25.
Smith, Franklin H., Peshtigo, Wis. Gate. 1,685,506; Sept. 25.

Smith, Jasper A., assignor to Delco-Light Company, Dayton, Ohio. Water system. 1,685,099; Sept. 25.
Smith, John O., assignor to The Upson-Walton Company, Cleveland, Ohio. Combined stuffing box and shaft bearing. 1,685,381; Sept. 25.
Smith, John R. C., Victoria, British Columbia, Canada. Handle for steering wheels. 1,685,686; Sept. 25.
Smith, John W., Dover Village, Ohio. Game. 1,685,142; Sept. 25.
Smith, S. Morgan, Company. (See Syvertsen, Harald, assignor.)
Smith, William O. (See McDonald, A., and Smith.)
Sonne, Minna B., Nexoe, Denmark. Wrapper for coins and the like. 1,685,649; Sept. 25.
Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for delivering charges of molten glass. 1,685,143; Sept. 25.
Southwestern Sales Corporation. (See Mann, James H., jr., assignor.)
Sparling, Eric C., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Latitude indicator. 1,685,762; Sept. 25.
Spencer, Robert M., Waycross, Ga. Fire box for boilers. Re17,088; Sept. 25.
Sperry Gyroscope Company, The. (See Sparling, Eric C., assignor.)
Sperryn, George N., Birmingham, England. Screw-down tap or cock. 1,685,465; Sept. 25.
Spicer Manufacturing Corporation. (See Thiemer, William H., assignor.)
Spraker, David L., assignor to Spraker Manufacturing Company, Indianapolis, Ind. Grinding tool. 1,685,100; Sept. 25.
Spraker Manufacturing Company. (See Spraker, David L., assignor.)
Springer, Edgar D., assignor to Indiana Lamp Corporation, Connersville, Ind. Lens retainer. 1,685,575; Sept. 25.
Standard Mirror Co. Inc. (See La Hodny, William, assignor.)
Standard Oil Company. (See Atwell, Harold V., assignor.)
Standard Oil Company of California. (See Osborn, Robert T., assignor.)
Standard Plastering System, Inc. (See Walper, Curry O., assignor.)
Star Chandelier Co. (See Boehringer, John A. assignor.)
Starr, Frank F., assignor to Delco-Light Company, Dayton, Ohio. Electrical generating system. 1,685,101; Sept. 25.
Stehlik, Rudolph F., assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,685,410; Sept. 25.
Stein, Milton F., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Rate-of-flow controller. 1,685,205; Sept. 25.
Stemper, Clarence N., et al. (See Schenk, Otto, assignor.)
Stepp, Eddie H., Knoxville, Tenn. Ore separator. 1,685,466; Sept. 25.
Stern, Max. (See Ruhnau, Richard, assignor.)
Stettner, Morris, Brooklyn, N. Y. Radiocabinet or similar article. Des. 76,430; Sept. 25.
Stettner, Morris, Brooklyn, N. Y. Radiocabinet or similar article. Des. 76,431; Sept. 25.
Stevens, Enoch P., deceased, Chicago, Ill., M. A. Stevens, executrix. Self-sustaining furnace arch. 1,685,617; Sept. 25.
Stevens, Harry R., W. S. Parker, F. W. Shupert, and J. C. Benson, Sanford, Fla. Superheater. 1,685,726; Sept. 25.
Stevens, Mary A., executrix. (See Stevens, Enoch P.)
Stevenson, Arthur G., Ottawa, Kans. Kafir-corn header. 1,685,507; Sept. 25.
Stewart, Arthur L., Danville, Ill. Rug-sizing frame. 1,685,689; Sept. 25.
Stewart, Robert, New York, N. Y. Dispensing applicator. 1,685,727; Sept. 25.
Stock, Emil, Bad Flinsberg of Silesia, Germany. Planning stormproof zones around or through wood districts. 1,685,343; Sept. 25.
Stockov, Max, New York, N. Y., assignor of one-half to M. Sherr, Philadelphia, Pa. Vehicle, stop. 1,685,467; Sept. 25.
Stone, Peter A., Chicago, Ill. Hanger. 1,685,728; Sept. 25.
Stone, Peter, Chicago, Ill. Bridging construction for joists. 1,685,729; Sept. 25.
Storck, Walter, Berlin-Halensee, assignor to Ludw. Loewe & Co. Actiengesellschaft, Berlin, Germany. Circular-grinding machine. 1,685,757; Sept. 25.
Strand, Theodore N., Los Angeles, Calif. Chair. Des. 76,432; Sept. 25.
Streich, John M., Clarendon, Pa. Pump valve. 1,685,650; Sept. 25.
Strout, Robert W., Brooklyn, assignor, by mesne assignments, to E. W. Bliss Company, New York, N. Y. Nail-making machine. 1,685,439; Sept. 25.
Strufe, Otto, Dwight, Ill. Refrigerator and installation construction therefor. 1,685,248; Sept. 25.
Stuart, Joseph, 2d, assignor to Hercules Powder Company, Wilmington, Del. Machine for securing bridge wires to lead wires of electric blasting caps. 1,685,344; Sept. 25.
Stuart, Joseph, 2d, assignor to Hercules Powder Company, Wilmington, Del. Bridging the connecting wires of electric blasting caps. 1,685,382; Sept. 25.
Stuart, Thomas F., and H. A. Moore, Los Angeles, Calif. Push catch for doors. 1,685,508; Sept. 25.
Sullivan Machinery Company. (See Holmes, Morris P. assignor.)
Sullivan, Raymond H., assignor to North East Electric Company, Rochester, N. Y. Electric-lighting system. 1,685,576; Sept. 25.
Summerhayes, W. Kenth, jr., Louisville, Ky. Advertising device. 1,685,102; Sept. 25.
Syvertsen, Harald, assignor to S. Morgan Smith Company, York, Pa. Bearing for hydraulic turbine shafts. 1,685,181; Sept. 25.
Talgman, Max, New York, N. Y. Motor stand. 1,685,103; Sept. 25.
Tams, William H., Trenton, N. J. Plate or similar article. Des. 76,433; Sept. 25.
Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Speed-regulating mechanism. 1,685,440; Sept. 25.
Tanzi, Mario, Boston, Mass. Macaroni die. 1,685,249; Sept. 25.
Taylor Instrument Companies. (See Foote, Edward B., assignor.)
Taylor Instrument Companies. (See Lamb, Donald C., assignor.)
Testell, Emile, Paris, France, assignor to General Electric Company. Dynamo-electric machine. 1,685,651; Sept. 25.
Thacher, Frank B. (See Waggoner, C. L., and Thacher,)
Theobald, Jean, assignor to International Silver Company, Meriden, Conn. Table set. Des. 76,434; Sept. 25.
Thiemer, William H., Cleveland, Ohio, assignor, by mesne assignment, to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,685,509; Sept. 25.
Thiemer, William H., Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,685,510; Sept. 25.
Thomas, John J., Westfield, N. J., assignor to American Can Company, New York, N. Y. Pouring-spout container. 1,685,383; Sept. 25.
Thomas, William E., Oakland, Calif. Preparing spinach and the like for canning. 1,685,511; Sept. 25.
Thompson, Earl A., Portland, Oreg. Automatic gear-shifting mechanism for sliding-gear transmissions. Re17,090; Sept. 25.
Thompson, Harry F., Stratford, N. Y. Road-building machine. 1,685,687; Sept. 25.
Thompson, John D., Union City, N. J., assignor to American Car and Foundry Company, New York, N. Y. Car underframe. 1,685,104; Sept. 25.
Thompson, John D., Union City, and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Multiunit tank car. 1,685,105; Sept. 25.
Thompson, John D., Union City, and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Container. 1,685,106; Sept. 25.
Thörnblad, Axel R., assignor to Aktiebolaget Fallskärm, Stockholm, Sweden. Parachute. 1,685,688; Sept. 25.
Thrift, Timothy, Cleveland, Ohio. Loop aerial. 1,685,652; Sept. 25.
Thurber, Frank, Los Angeles, Calif. Lamp. 1,685,251; Sept. 25.
Tinnerman, Albert H., Cleveland, Ohio. Stove. Des. 76,435; Sept. 25.
Tippetts, George W., Spanish Fork, Utah. Gun. 1,685,730; Sept. 25.
Tobias, Wilfred R., Los Angeles, Calif. Roof. 1,685,559; Sept. 25.
Townsend, Edward G. (See Housley, W. F., and Townsend.)
Travers, John T., assignor to The Travers-Lewis Process Corporation, Columbus, Ohio. Process and apparatus for treating polluted acid wastes. 1,685,300; Sept. 25.
Travers, John T., assignor to The Travers-Lewis Process Corporation, Columbus, Ohio. Treatment of polluted wastes. 1,685,301; Sept. 25.
Travers-Lewis Process Corporation, The. (See Travers, John T., assignor.)
Tregillus, Harold G., Park Ridge, Ill. Trussed structure. 1,685,107; Sept. 25.
Tressler, Donald K., Pittsburgh, Pa., assignor to Larrowe Construction Company, Detroit, Mich. Preparation of betaine hydrochloride, etc. 1,685,758; Sept. 25.
Trevena, Clair, Bellevue Hill, near Sydney, New South Wales, Australia. Mop. 1,685,731; Sept. 25.
Trosch, Alfred, assignor to Consolidated Machine Tool Corporation of America, Rochester, N. Y. Rail clamp. 1,685,468; Sept. 25.
Truax, Charles C., Columbus, Ohio. Separator for corncobs and the like. 1,685,732; Sept. 25.
Trueb, Rudolph O., Murray Hill, N. J. Curtain. 1,685,252; Sept. 25.
Trulock, George, Los Angeles, Calif. Lid holder for containers. 1,685,560; Sept. 25.
Truscon Steel Company. (See Briody, Bernard, assignor.)
Tubal Boiler Company. (See White, Raymond E., assignor.)
Tucker, Carl L., assignor of one-half to W. R. Lake, Denver, Colo. Mechanism for making side-seam envelopes. 1,685,469; Sept. 25.
Tuffley, George E., Syracuse, N. Y., assignor to Deere & Company, Moline, Ill. Oil burner for furnaces. 1,685,108 Sept. 25.

Twin Disc Clutch Company. (See Pearmain, William J., assignor.)
Tyler, Harvey E., Chicago, Ill. Muffler. 1,685,302; Sept. 25.
Uhde, Georg F., Bovinghausen, Germany. Purifying gases. 1,685,733; Sept. 25.
Uhde, Georg F., Bovinghausen, Germany. Synthetically producing ammonia. 1,685,734; Sept. 25.
United Electric Company, The. (See Simpson, Walter S., assignor.)
United Filters Corporation. (See Campbell, Robert C., assignor.)
United Filters Corporation. (See Hoyt, John T., assignor.)
United Shoe Machinery Corporation. (See Kelly, John A., assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Winkley, E. E., and Hart, assignors.)
Universal Draft Gear Attachment Co. (See Wilson, Jack, assignor.)
Universal Oil Products Company. (See Alther, Joseph G., assignor.)
Universal Oil Products Company. (See Egloff, G., and Benner, assignors.)
Universal Oil Products Company. (See Huff, Lyman C., assignor.)
Upson-Walton Company, The. (See Smith, John O., assignor.)
Van Amburgh, Charles L., Long Beach, Calif. Razor-stropping device. 1,685,470; Sept. 25.
Van Bloem, Paul S., Great Neck, assignor to Viking Products Corporation, New York, N. Y. Elevator signal panel. Des. 76,436; Sept. 25.
Van Dorn Electric Tool Company, The. (See Connell, Edwin L., assignor.)
Varusky, John J., assignor to Carter-Mayhew Manufacturing Co., Minneapolis, Minn. Scalper. 1,685,512; Sept. 25.
Vaszin, Aurel, assignor to The Dayton Funhouse & Riding Device Mfg. Company, Dayton, Ohio. Amusement device. 1,685,577; Sept. 25.
Veazey, William R., Cleveland Heights, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Magnesium alloy and making same. 1,685,653; Sept. 25.
Verein für Chemische Industrie Aktiengesellschaft. (See Walter, Hans, assignor.)
Vereinigte Stahlwerke Aktiengesellschaft. (See Grosweischede, J., and Reichenbecher, assignors.)
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,438; Sept. 25.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole socket. Des. 76,439; Sept. 25.
Viking Products Corporation. (See Van Bloem, Paul P., assignor.)
Vollmer, William A., assignor to Simmons Company, Kenosha, Wis. Tip. 1,685,578; Sept. 25.
Von Ardenne, Manfred, Berlin, Germany, assignor to Radio Corporation of America. Double-grid thermionic tube. 1,685,253; Sept. 25.
Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation. Refrigerator. 1,685,764; Sept. 25.
Voorhels, Joseph T., Oakland, assignor to Coen Company, San Francisco, Calif. Duplex oil strainer. 1,685,303; Sept. 25.
Vortex Mfg. Co., The. (See Ohlson, John B., assignor.)
Voss, Erdmann, Hamburg, Germany. Hair-drying apparatus. 1,685,345; Sept. 25.
Wackerman, Charles S., Bridgeport, Conn. Narrow woven trimming. Des. 76,440; Sept. 25.
Waggoner, Charles L., and F. B. Thacher, assignors to By-Products Coke Corporation, Chicago, Ill. Treating coke and products. 1,685,654; Sept. 25.
Wagner, Chester I., New York, N. Y. Record-filing system. 1,685,206; Sept. 25.
Wahlbeck, John H. (See Prosser, T. W., and Wahlbeck.)
Wald, David, New York, N. Y. Rheostat construction. 1,685,579; Sept. 25.
Walker, George H., assignor to Heenan & Froude Limited, Worcester England. Hydraulic dynamometer. 1,685,735; Sept. 25.
Walker, Hubert, Royal Oak, and F. A. Whitten, Detroit, Mich., assignors to American Car and Foundry Motors Company, New York, N. Y. Vehicle bumper and fender and mounting means therefor. 1,685,618; Sept. 25.
Wallis, Cyril T., assignor to North East Electric Company, Rochester, N. Y. Seal for instrument cases. 1,685,580; Sept. 25.
Walper, Curry O., assignor to Standard Plastering System, Inc., Detroit, Mich. Reenforced plaster board. 1,685,254; Sept. 25.
Walter, Hans, Mainz-Mombach, assignor to Verein für Chemische Industrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Diffusion reaction. 1,685,759; Sept. 25.
Warner and Swasey Company, The. (See Burrell, E. P., and Drake, assignors.)
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Manufacturing rail anchors. 1,685,255; Sept. 25.
Washington, Dixon E., Kansas City, Mo. Speed reducer. 1,685,256; Sept. 25.
Waterworth, Eric N., West Hobart, Tasmania, Australia. Stopping means of talking machines. 1,685,471; Sept. 25.
Watson, George D., Torrance, Calif. Oil-well tool. 1,685,472; Sept. 25.
Weber, Alfred, New York, N. Y. Incandescent-lamp bulb or similar article. Des. 76,441; Sept. 25.
Weber, Charles, jr., assignor to C. G. Conn, Ltd., Elkhart, Ind. Gauge. 1,685,109; Sept. 25.
Weber Engine Company. (See Gold, Samuel B., assignor.)
Weigle, Russell J., East Grand Rapids, Mich. Direction indicator for vehicles. 1,685,257; Sept. 25.
Weinert, Harry F., Detroit, Mich. Tinning-cup attachment for blowtorches. 1,685,258; Sept. 25.
Weiskopf, Otto, Erfurt, Germany. Tens-carrying device for calculating machines. 1,685,346; Sept. 25.
Wellington, Arthur W., assignor to The Chase Companies, Inc., Waterbury, Conn. Flush-tank fitting. 1,685,259; Sept. 25.
Wells, Harold D., Glens Falls, N. Y. Machine for paper-making processes. 1,685,736; Sept. 25.
Welsch, Frank G., South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Head for lighting units. Des. 76,442; Sept. 25.
Welsh, Ralph B., Burkburnett, Tex. Sand pump. 1,685,619; Sept. 25.
Wenzka, Ignace J., Depew, N. Y. Liquid strainer. 1,685,655; Sept. 25.
West, Bernard. (See Hunter, Percy E., assignor.)
West, Donald H., assignor to The J. N. Lapointe Company, New London, Conn. Hydraulic drive for broaching machines and the like. 1,685,760; Sept. 25.
West, Harry R., Pittsfield, Mass., assignor to General Electric Company. Induction voltage regulator. 1,685,656; Sept. 25.
West Process Pavement Company. (See West, William C., assignor.)
West, William C., assignor to West Process Pavement Company, Incorporated, Louisville, Ky. Asphaltic material and preparing same. 1,685,304; Sept. 25.
Western Electric Company. (See Griggs, Elmer V., assignor.)
Western Electric Company. (See Williams, Robert R., assignor.)
Westerfield, Samuel, New York, N. Y. Electric table lamp. Des. 76,443; Sept. 25.
Westinghouse Electric and Manufacturing Company. (See Welsch, Frank G., assignor.)
Whalen, William H., Los Angeles, Calif. Track sprinkler. 1,685,581; Sept. 25.
White, Charles H., assignor to Deere & Company, Moline, Ill. Tandem-disk harrow. 1,685,110; Sept. 25.
White, Charles H., assignor to Deere & Company, Moline, Ill. Scraper. 1,685,385; Sept. 25.
White, Edward A., Lewiston, Idaho. Sizing apparatus. 1,685,207; Sept. 25.
White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Electric-lighting fixture. 1,685,020; Sept. 25.
White, Raymond E., assignor to Tubal Boiler Company, Chicago, Ill. Boiler construction. 1,685,388; Sept. 25.
White, William M., Milwaukee, Wis. Guide vane. 1,685,260; Sept. 25.
White, William M., Milwaukee, Wis. Hydraulic turbine. 1,685,261; Sept. 25.
Whitney Metal Tool Company. (See Jensen, John, assignor.)
Whitney, Willis R., Niskayuna, N. Y., assignor to General Electric Company. Composite metal article. 1,685,657; Sept. 25.
Whitsel, Robert L., South Chicago, Ill. Cigar and cigarette holder. 1,685,182; Sept. 25.
Whitten, Frank A. (See Walker, H., and Whitten.)
Whitten, Frank A., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Valve-operating mechanism. 1,685,582; Sept. 25.
Wilber, Carl L., assignor to Jefferson Forge Products Company, Detroit, Mich. Apparatus for forming wheels. 1,685,513; Sept. 25.
Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,685,441; Sept. 25.
Wildhaber, Ernest, and A. H. Candee, assignors to Gleason Works, Rochester, N. Y. Producing bevel gears. 1,685,442; Sept. 25.
Wiley, William R., Mount Clemens, Mich. Making gland nuts. 1,685,262; Sept. 25.
Wilhelm, Howard H., Jefferson City, Mo. Dispensing container. 1,685,183; Sept. 25.
Willcox, Frederick H., assignor to Freyn Engineering Company, Chicago, Ill. Blast-furnace construction. 1,685,208; Sept. 25.
Williams, Oscar. (See Cooke, M. W., and Williams.)
Williams, Robert R., Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulated conductor. 1,685,386; Sept. 25.
Williams, William R. (See Davey, P. H., and Williams.)
Willoughby, Victor. (See Thompson, J. D., and Willoughby.)
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Insulated tank car. 1,685,111; Sept. 25.

Willys-Overland Company, The. (See Huntington, Edward E., assignor.)
Wilmot Engineering Company. (See Wilmot, George W., assignor.)
Wilmot, George W., assignor to Wilmot Engineering Company, Hazleton, Pa. Attachment for chairs. 1,685,112; Sept. 25.
Wilms, Gustav O., assignor to The Reliance Company, Milwaukee, Wis. Mechanical movement. 1,685,113; Sept. 25.
Wilson Jack, Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Brake-beam safety hanger. 1,685,474; Sept. 25.
Wilson, John W. (See Petersen, J. H. D., and Wilson.)
Wilson, Stanton D., St. Louis, Mo. Light globe. Des. 76,444; Sept. 25.
Winkley, Erastus E., and F. V. Hart, Lynn, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,685,387; Sept. 25.
Wirebound Patents Company. (See Bauwens, Seraphine F., assignor.)
Wirkkala, Oscar A., Deming, Wash. Bull hook. 1,685,473; Sept. 25.
Witzel, Henry H., Mitchell, S. Dak. Automobile head lamp. 1,685,090; Sept. 25.
Wolff, Frederick W. J., San Francisco, Calif. Hat guard. 1,685,263; Sept. 25.
Woytych, Raymond M. (See Kempton, H. E., Gallimore, and Woytych.)
Wuthnow, Verland E., Dillon, Kans. Motor-vehicle hood latch. 1,685,475. Sept. 25.
Young, John C. (See McDonald, A., and Smith.)
Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Hooked and lapped side seam for tubular bodies and making the same. 1,685,384; Sept. 25.
Yuen, San D. J., New York, N. Y. Watch dial or similar article. Des. 76,445; Sept. 25.
Zarou Bros. (See Zarou, Salim G., assignor.)
Zarou, Salim G., Brooklyn, assignor to Zarou Bros., New York, N. Y. Textile fabric or similar article of manufacture. Des. 76,446; Sept. 25.
Zelenka, Edward J., Minneapolis, Minn. Bearing for centrifugal extractors. 1,685,347; Sept. 25.
Zeger, Georges E., Montreuil, France, assignor, by mesne assignments, to du-Pont-Pathe Film Manufacturing Corporation, Wilmington, Del. Manufacture of plastic compounds. 1,685,443; Sept. 25.
Zelger, Georges E., Montreuil, France, assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del. Manufacture of plastic compounds. 1,685,444; Sept. 25.
Zimmermann, William F., Maplewood, N. J. Shaping machine with variable-power traverse. 1,685,659; Sept. 25.
Zoellig, Eugene, Hamilton, Ohio. Molding ring. 1,685,660; Sept. 25.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF SEPTEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acids, Halogenides of aromatic oxamic. J. Haller. 1,685,698; Sept. 25.
Adjustable wrench, Open-end. H. A. Mead. 1,685,432; Sept. 25.
Advertising device. E. F. Goeller. 1,685,157; Sept. 25.
Advertising device. W. K. Summerhayes, jr. 1,685,102; Sept. 25.
Aerial, Loop. T. Thrift. 1,685,652; Sept. 25.
Air-pressure gauge. A. E. Carliss. 1,685,273; Sept. 25.
Airship. L. P. Lidback. 1,685,458; Sept. 25.
Alarm: *See*—
Burglar alarm.
Alarm mechanism. C. J. Lynch. 1,685,329; Sept. 25.
Alloy and making same, Magnesium. W. R. Veazey. 1,685,653; Sept. 25.
Alloy, Improving the qualities of nickel-beryllium. G. Masing and O. Dahl. 1,685,570; Sept. 25.
Ammonia, Synthetically producing. G. F. Uhde. 1,685,734; Sept. 25.
Amusement device. A. Vaszin. 1,685,577; Sept. 25.
Analyzing the alveolar air from the lungs, Apparatus for. H. Regelsberger. 1,685,557; Sept. 25.
Anchor, Oil-derrick. G. B. Mullen. 1,685,716; Sept. 25.
Anchors, Manufacturing rail. H. G. Warr. 1,685,255; Sept. 25.
Anchoring device, Tile-. G. P. Jackson. 1,685,568; Sept. 25.
Apparel. A. Lifter. 1,685,091; Sept. 25.
Arch support. H. D. Emcott. 1,685,155; Sept. 25.
Arch support and shoe-shank reenforcement. F. G. Delbon. 1,685,398; Sept. 25.
Asphaltic material and preparing same. W. C. West. 1,685,304; Sept. 25.
Athlete's protective harness. H. Goldsmith. 1,685,452; Sept. 25.
Atomizing device. R. B. Paull. 1,685,293; Sept. 25.
Auto top. F. D. Gould. 1,685,530; Sept. 25.
Automobile body. W. H. Atkinson. 1,685,264; Sept. 25.
Automobile body. E. T. Halloway. Des. 76,392; Sept. 25.
Automobile body. A. Lang. Des. 76,403; Sept. 25.
Automobile lock. O. S. Hershey. 1,685,128; Sept. 25.
Automobile radiator ornament. F. W. Ehrlich. Des. 76,383; Sept. 25.
Ax, Brush. A. N. Schaefer. 1,685,141; Sept. 25.
Badge or similar article. G. F. Kearney. Des. 76,399; Sept. 25.
Balls, Making tennis. L. R. Hurlburt. 1,685,423; Sept. 25.
Bathtub dressing table for children. F. M. McEntire. 1,685,093; Sept. 25.
Batteries, Separating device for lead storage. C. J. V. Féry. 1,685,695; Sept. 25.
Battery composition. P. J. Kelleher. 1,685,674; Sept. 25.
Battery plate, Storage-. J. N. Davis. 1,685,215; Sept. 15.
Bearing. A. Pfau. 1,685,751; Sept. 25.
Bearing, Antifriction. S. B. Haseltine. 1,685,160; Sept. 25.
Bearing, Antifriction. J. F. O'Connor. 1,685,173; Sept. 25.
Bearing, Antifriction. J. F. O'Connor. 1,685,612; Sept. 25.
Bearing for centrifugal extractors. E. J. Zelenka. 1,685,347; Sept. 25.
Bearing for hydraulic turbine shafts. H. Syvertsen. 1,685,181; Sept. 25.
Bearing for top-detaching rolls. W. P. Homans. 1,685,218; Sept. 25.
Bearing mounting. H. G. Baldwin. 1,685,517; Sept. 25.
Bearing strip for machine-tool ways. A. W. Parkes. 1,685,434; Sept. 25.
Bidet, Bed. B. Claus. 1,685,693; Sept. 25.
Bike, Kick. R. A. Peacock. 1,685,614; Sept. 25.
Binding. M. Levine. 1,685,607; Sept. 25.
Bird cage. L. J. Leon. Des. 76,407; Sept. 25.
Bird house. T. C. Kevitt. Des. 76,400; Sept. 25.
Biscuits and similar articles, Apparatus for stacking. H. A. Elfving. 1,685,354; Sept. 25.
Bit: *See*—
Drilling bit.
Board: *See*—
Insulating board. Plaster board.
Boiler construction. R. E. White. 1,685,388; Sept. 25.
Bookkeeping machine. A. Smith. 1,685,685; Sept. 25.
Borax from rasorite by a wet method, Production of commercial. T. M. Cramer. 1,685,214; Sept. 25.
Boring and facing machine, Car-wheel. L. C. Cole. 1,685,417; Sept. 25.
Bottle for perfume or the like. A. Lavault. Des. 76,405; Sept. 25.
Bottle or similar article, Hot-water. S. L. Palmer. Des. 76,413; Sept. 25.
Bottle receptacle elements, Constructing. L. B. Koch. 1,685,494; Sept. 25.
Box: *See*—
Coin box. Mail box.
Display box. Switch box.
Locomotive driving box.
Boxing, Device for creating accuracy in the art of. H. Latz. 1,685,495; Sept. 25.
Bracing rods to trees, Applying threaded. P. H. Davey. 1,685,151; Sept. 25.
Bracket: *See*—
Mirror bracket. Stanchion bracket.
Brake. A. E. Lee. 1,685,709; Sept. 25.
Brake. A. F. Masury. 1,685,429; Sept. 25.
Brake of the expanding-shoe type. G. Fornaca. 1,685,450; Sept. 25.
Branding machine, Fruit-. E. A. Robbins. 1,685,645; Sept. 25.
Brick mold. J. H. Beckwith. 1,685,188; Sept. 25.
Bridging construction for joists. P. Stone. 1,685,729; Sept. 25.
Bridging the connecting wires of electric blasting caps. J. Stuart, 2d. 1,685,382; Sept. 25.
Brush, Lather. O. D. Earon. 1,685,526; Sept. 25
Brush, Sanitary. E. S. and A. P. Kogler. 1,685,328; Sept. 25.
Buckle, Belt. F. P. Daughaday. Des. 76,380; Sept. 25.
Buffer, Magazine. H. MacDougall, and W. G. Kendall. 1,685,333; Sept. 25.
Buffing mechanism. J. F. O'Connor. 1,685,177–8; Sept. 25.
Bull hook. O. A. Wirkkala. 1,685,473; Sept. 25.
Bumper and fender and mounting means therefor, Vehicle. H. Walker and F. A. Whitten. 1,685,618; Sept. 25.
Burglar alarm. T. R. Castles. 1,685,416; Sept. 25.
Burner: *See*—
Oil burner.
Burner for furnaces, Oil. G. E. Tuffley. 1,685,108; Sept. 25.
Burner for regenerative furnaces. M. J. Lackner. 1,685,543; Sept. 25.
Button clasp, Collar-. A. Beiffos. 1,685,595; Sept. 25.
Cabinet, Food. D. T. Marshall. 1,685,712; Sept. 25.
Cabinet for a sound-reproducing instrument or the like. N. P. Bloom. Des. 76,370; Sept. 25.
Cabinet for bottle coolers. J. M. Schilling. Des. 76,423; Sept. 25.
Cabinet, Towel. J. N. Borroughs. 1,685,395; Sept. 25.
Calendar. J. F. Bennet. 1,685,692; Sept. 25.
Candy-making machine. J. N. Kalkanis. 1,685,605; Sept. 25.
Candy-pulling machine. W. Geist. 1,675,741; Sept. 25.
Cap and shell fastening. H. Hubbell, jr. 1,685,361; Sept. 25.
Car, Cane. J. C. Abel. 1,685,079; Sept. 25.
Car, Hopper. A. Kassler. 1,685,089; Sept. 25.
Car, Insulated tank. V. Willoughby. 1,685,111; Sept. 25.
Car, Multiunit tank. J. D. Thompson and V. Willoughby. 1,685,105; Sept. 25.
Car underframe. J. D. Thompson. 1,685,104; Sept. 25.
Carbohydrates, Acylating. E. B. Middleton. 1,675,220; Sept. 25.
Carburetor. H. C. Abern. 1,685,114; Sept. 25.
Carrier system for heavy plates, Electromagnetic. A. Goodfellow. 1,685,539; Sept. 25.
Case: *See*—
Key case. Musical-instrument case.
Casing for corn-popping machine. J. H. Reichart. Des. 76,418; Sept. 25.
Casing for safety switches. E. G. Johansson. 1,685,490; Sept. 25.
Casing for universal joints, Spring-retained. H. M. Funnell. 1,685,528; Sept. 25.
Casing, Gear. A. F. Pitkin and R. P. La Porte. 1,685,202; Sept. 25.
Castings, Controlling metal. H. S. Lee. 1,685,546; Sept. 25.
Catalytic apparatus. A. O. Jaeger. 1,685,672; Sept. 25.
Catch for doors, Push. T. F. Stuart and H. A. Moore. 1,685,508; Sept. 25.
Ceiling plate for lighting fixtures or similar articles. J. A. Boehringer. Des. 76,371; Sept. 25.
Cementing and floating shoe. R. C. Baker. 1,685,307; Sept. 25.
Chains, Attachment for. G. W. Wilmot. 1,685,112; Sept. 25.
Chair: *See*—
Dental chair.
Chair. T. N. Strand. Des. 76,432; Sept. 25.

Chassis. T. R. Arden. 1,685,592; Sept. 25.
Chassis, Aircraft. E. B. Carns. 1,685,122; Sept. 25.
Chuck. H. E. Kempton, K. F. Gallimore, and R. M. Woytych. 1,685,235; Sept. 25.
Circuit closer, Heat or pressure responsive. L. E. Beck. 1,685,211; Sept. 25.
Circuit closer, Thermostatically-controlled. H. D. Montgomery. 1,685,136; Sept. 25.
Circuit controller. W. S. Garland. 1,685,537; Sept. 25.
Clamp: *See*—
Rail clamp. Trolley-wire clamp.
Clamp. G. Frank. 1,685,696; Sept. 25.
Clamp for vehicle bumper. H. S. Jandus and J. R. Morgan. Des. 76,396; Sept. 25.
Clamp plate. H. S. Jandus. Des. 76,397–8; Sept 25.
Clamping device, Screen-. W. J. Duffcy. 1,685,705; Sept. 25.
Clasp: *See*—
Button clasp.
Cleaning and polishing wheel. T. P. Kimman. 1,685,406; Sept. 25.
Cleaning composition of matter. R. B. Hoffman. 1,685,360; Sept. 25.
Cleaning implement. W. J. Barber. 1,685,265; Sept. 25.
Closure device. L. R. N. Carvalho. 1,685,227; Sept. 25.
Clutch and transmission mechanism. W. J. Pearmain. 1,685,502; Sept. 25.
Clutch for reversing mechanisms, Condensed. D. C. Klausmeyer. 1,685,638; Sept. 25.
Cock, Plug. J. Lawson. 1,685,236; Sept. 25.
Coil heater, Tank-car. C. I. Hummer. 1,1,685,131; Sept. 25.
Coil-winding device. A. W. Bjorkman. 1,685,597; Sept. 25.
Coin box. H. K. Lorentzen. 1,685,219; Sept. 25.
Compressor, Air. J. A. and P. H. Davy and C. L. Gaugler. 1,685,150; Sept. 25.
Compressor, Lubricant. D. F. Fesler. 1,685,484; Sept. 25.
Compressor unit, Air-. A. B. Schlesinger. 1,685,616; Sept. 25.
Compressor, Valve-spring. W. F. Housley and E. G. Townsend. 1,685,548; Sept. 25.
Computing machine. G. Browning. 1,685,583; Sept. 25.
Condenser mounting. W. B. Connolly. 1,685,563; Sept. 25.
Conduits, Manufacture of highest-pressure. J. Grosswelschede and G. Reichenbecher. 1,685,402; Sept. 25.
Connecter for sector-shaped conductors. A. B. Saurman. 1,685,437; Sept. 25.
Container. O. B. Case. 1,685,147; Sept. 25.
Container. J. D. Thompson and V. Willoughby. 1,685,106; Sept. 25.
Container and making the same. A. M. Scaife. 1,685,246; Sept. 25.
Container, Combination packing and display. M. M. Elnson. 1,685,125; Sept. 25.
Container, Dispensing. H. H. Wilhelm. 1,685,183; Sept. 25.
Container having body with renitent neck and making same, Paper-. A. Moore. 1,685,370; Sept. 25.
Container, Paper. J. G. Norton. 1,685,138; Sept. 25.
Container, Pouring-spout. J. J. Thomas. 1,685,383; Sept. 25.
Container, Sheet-metal. J. Lee and C. Pearson. 1,685,367; Sept. 25.
Control mechanism for electric switch gear. W. Anderson and H. W. Clothier. 1,685,531; Sept. 25.
Control system. A. Pfau. 1,685,749; Sept. 25.
Control system. A. Pfau and B. Grob. 1,685,750; Sept. 25.
Control system for prime movers. J. J. Ring and C. Schindler. 1,685,755; Sept. 25.
Converting hydrocarbons, Process and apparatus for. L. C. Huff. 1,685,488; Sept. 25.
Conveyer, Shaker. J. H. D. Petersen and J. W. Wilson. 1,685,463; Sept. 25.
Core for electrical apparatus. E. C. George. 1,685,742; Sept. 25.
Corset. A. B. Beck. 1,685,477; Sept. 25.
Cotton chopping machine. J. S. Elder. 1,685,318; Sept. 25.
Counterbalancing device. H. G. Pederson. 1,685,748; Sept. 25.
Countersink machine. R. C. Phillips. 1,685,200; Sept. 25.
Counting mechanism. W. A. De Hart. 1,685,481; Sept. 25.
Coupling: *See*—
Swivel coupling.
Coupling. S. B. Gold. 1,685,158; Sept. 25.
Coupling. J. W. MacClatchie. 1,685,459; Sept. 25.
Coupling connecter, Electric-cable-. J. Higham. 1,685,420; Sept. 25.
Couplings, Manufacturing pipe. G. E. Mirfield. 1,685,678; Sept. 25.
Covering articles and the product resulting therefrom. H. I. Beadle. 1,685,393; Sept. 25.
Covering, Wall. P. Rossi. 1,685,573; Sept. 25.
Cracking oils. J. G. Alther. 1,685,476; Sept. 25.
Crane for lifting railroad vehicles, Overhead traveling. J. Rosenthal. 1,685,724; Sept. 25.
Crossing gate, Highway-. J. A. Anderson. 1,685,623; Sept. 25.
Cuff construction. J. H. Anderson. 1,685,305; Sept. 25.
Cultivator. L. Brenneis. 1,685,478; Sept. 25.
Cultivator blade. B. R. Benjamin. 1,685,268; Sept. 25.
Curing meats. E. T. Drake. 1,685,630; Sept. 25.
Curtain. R. O. Trueb. 1,685,252; Sept. 25.
Cutlery, Table. C. H. Hemming. 1,685,588; Sept. 25.
Cutter: *See*—
Ice-cream cutter. Vegetable cutter.
Cutter attachment. F. A. Leigh. 1,685,590; Sept. 25.
Cutter for butter, bread, and the like, Slicing. J. S. Donnellan. 1,685,533; Sept. 25.
Cutter for cutting sharply-pointed angular incisions into wood, Milling. H. Obagen. 1,685,373; Sept. 25.
Cutting machine, Rubber-ring-. G. L. Hammond, L. H. Messinger, jr., and W. Nicholas. 1,685,127; Sept. 25.
Dash light. E. E. Huntington. 1,685,421; Sept. 25.
Declutching. J. Bethenod. 1,685,596; Sept. 25.
Deflector for gasoline-hose nozzles. R. M. Davis. 1,685,313; Sept. 25.
Delivering charges of molten glass, Apparatus for. L. D. Soubier. 1,685,143; Sept. 25.
Dental chair, Collapsible. J. P. Fletcher. 1,685,599; Sept. 25.
Depositing apparatus. W. R. Myers and B. O. Opitz. 1,685,460; Sept. 25.
Derricks, Corner plate for. C. W. Lynch. 1,685,711; Sept. 25.
Designs, Reproducing artistic. R. F. Brown. 1,685,396; Sept. 25.
Dewatering apparatus. J. T. Hoyt. 1,685,085; Sept. 25.
Dicyclic derivatives of pentamethylene and manufacture of same. C. Mannich. 1,685,407; Sept. 25.
Die: *See*—
Macaroni die.
Dieing-out machine. E. R. Boylan. 1,685,309; Sept. 25.
Diffusion reaction. H. Walter. 1,685,759; Sept. 25.
Digger: *See*—
Potato digger.
Direction-indicating signal. J. M. Maroney. 1,685,330; Sept. 25.
Direction indicator for vehicles. R. J. Weigle. 1,685,257; Sept. 25.
Discharge balance coil, Multiwinding. R. K. Honoman. 1,685,161; Sept. 25.
Dish or similar article. J. S. Richardson. Des. 76,420; Sept. 25.
Dispensing applicator. R. Stewart. 1,685,727; Sept. 25.
Dispensing container and method of dispensing articles therefrom. J. B. Ohlson. 1,685,292; Sept. 25.
Dispensing ice cream and the like, Apparatus. F. E. Key. 1,685,250; Sept. 25.
Display apparatus. L. R. McDonald. 1,685,499; Sept. 25.
Display box. S. N. Leopold. 1,685,606; Sept. 25.
Display device. W. E. and M. S. Platt. 1,685,336; Sept. 25.
Display device for automobiles, License. S. J. Rideau. 1,685,558; Sept. 25.
Display fixture or the like. M. M. Friedemann. Des. 76,386; Sept. 25.
Display stand. J. H. De Weese. Des. 76,381; Sept. 25.
Display stand. R. B. Meller. 1,685,571; Sept. 25.
Distillation apparatus, Low-temperature. H. G. Lykken. 1,685,496; Sept. 25.
Distribution system. H. V. Nye. 1,685,746–7; Sept. 25.
Dome closure, Car-tank-. R. W. Joy. 1,685,132; Sept. 25.
Door and operating means therefor, Car. F. G. Evans. 1,685,631; Sept. 25.
Door-closure mechanism. T. Brady. 1,685,081; Sept. 25.
Door-operating mechanism. J. F. O'Connor. 1,685,175; Sept. 25.
Door-operating mechanism, Refrigerator-car-door. J. F. O'Connor. 1,685,174; Sept. 25.
Door strip and side-door-post protector, Combined grain-. S. L. Joiner. 1,685,197; Sept. 25.
Dough kneading and mixing machine. F. Aeschbach. 1,685,187; Sept. 25.
Dough-kneading machinery. F. Aeschbach. 1,685,185; Sept. 25.
Draft appliance, Locomotive. E. L. Schellens and J. S. Coffin, jr. 1,685,574; Sept. 25.
Draft-key retainer. C. H. Evans. 1,685,126; Sept. 25.
Draft rigging. D. S. Barrows. 1,685,209; Sept. 25.
Draft-rigging-key retainer. G. A. Johnson. 1,685,164; Sept. 25.
Drapery-pole bracket. R. H. Vermillion. Des. 76,438; Sept 25.
Drawer slide. R. I. Eustis and F. S. Beiger. 1,685,536; Sept. 25.
Dress or similar article. E. M. Boyes. Des. 76,375; Sept. 25.
Drilling bit, Well. A. W. Kammerer. 1,685,327; Sept. 25.
Drip pan. G. P. Childers. Des. 76,378; Sept. 25.
Drive device, Spiral. F. P. Breen. 1,685,702; Sept. 25.
Drum, Automatic. A. M. Lifshitz. 1,685,090; Sept. 25.
Drum, Demountable winding. O. B. Bjorge. 1,685,519; Sept. 25.
Drying. O. W. Randolph. 1,685,338; Sept. 25.
Drying apparatus, Hair-. E. Voss. 1,685,345; Sept. 25.
Dump, Rotary. E. Ramsay. 1,685,203; Sept. 25.
Dynamo plant, Prime-mover. R. H. Earle. 1,685,740; Sept. 18.
Dynamometer, Hydraulic. G. H. Walker. 1,685,735; Sept. 25.
Electric drill. E. L. Connell. Des. 76,379; Sept. 25.
Electric machine and winding therefor, Dynamo. G. M. Albrecht. 1,685,737–8; Sept. 25.

Electric machine and winding therefor, Dynamo-. W. H. Powell. 1,685,752; Sept. 25.
Electric machine, Dynamo-. E. Testell. 1,685,651; Sept. 25.
Electric switch. K. Bauerschmidt. 1,685,664; Sept. 25.
Electric switch. F. F. Dorsey. 1,685,565; Sept. 25.
Electric switch. G. J. Meuer. 1,685,500; Sept. 25.
Electric switch, Quick-make-and-break. M. Katcher. 1,685,234; Sept. 25.
Electrical apparatus. R. V. Bingay. 1,685,223; Sept. 25.
Electrochemical process for separating iron from aluminum. F. Giordani. 1,685,156; Sept. 25.
Elevator: *See*—
Oil-well elevator.
Elevator and inclosure therefor. W. B. Crowell. 1,685,228; Sept. 25.
Elevator and support for wall boards and the like. A. Austin. 1,685,144; Sept. 25.
Elevator safety appliance. F. Hymans. 1,685,232; Sept. 25.
Elevator signal panel. P. S. Van Bloem. Des. 76,436; Sept. 25.
Embroidered textile fabric. W. Schmid. Des. 76,425; Sept. 25.
Embroidery guide, Automatically-adjustable. A. J. Forseth. 1,685,194; Sept. 25.
Emulsification apparatus. G. C. Hurrell. 1,685,424; Sept. 25.
Engine: *See*—
Hydrocarbon engine. Internal-combustion engine.
Engine or machine, Carding. J., W., and H. Platt. 1,685,658; Sept. 25.
Escutcheon plate. J. J. Punke. Des. 76,416; Sept. 25.
Extracting the oily bases from crude shale oil. D. T. Day. 1,685,315; Sept. 25.
Fan, Engine-cooling. P. V. Hansen. 1,685,323; Sept. 25.
Fans and the like, Hanging means for electric. F. C. De Reamer. 1,685,669; Sept. 25.
Fare indicator. L. Kern. 1,685,589; Sept. 25.
Fastening device for floor coverings. W. C. Joseph. 1,685,362; Sept. 25.
Feeding mechanism for sewing machines. J. C. Ringe. 1,685,436; Sept 25.
Feeding mechanism for tapping machines, Automatic. S. Kail. 1,685,542; Sept. 25.
Feeding powdered fuel, Apparatus for. W. L. and H. L. McLaughlin. 1,685,331; Sept. 25.
Filing structure. T. C. Butterworth. 1,685,448; Sept. 25.
Filing system, Record-. C. I. Wagner. 1,685,206; Sept. 25.
Finishing machine. T. Lund. 1,685,368; Sept. 25.
Firearm. H. S. Conant. 1,685,148; Sept. 25.
Firearm. F. B. Jones. 1,685,673; Sept. 25.
Fire box for boilers. R. M. Spencer. Re17,088; Sept. 25.
Flashing for roof construction. F. Dow. 1,685,525; Sept. 25.
Flow controller, Rate-of-. M. F. Steim. 1,685,205; Sept. 25.
Flush-tank fitting. A. W. Wellington. 1,685,259; Sept. 25.
Foldable seat. D. R. Nichols. 1,685,137; Sept. 25.
Footwear. R. A. Bunker. 1,685,561; Sept. 25.
Footwear. G. P. Dike. 1,685,216; Sept. 25.
Frame: *See*—
Sizing frame.
Frame and holder for slippers and other articles. M. E. Dryden. 1,685,277; Sept. 25.
Freezer, Ice-cream. H. C. Cover. 1,685,189; Sept. 25.
Fuel and cleaning device for internal-combustion engines, Auxiliary. W. Davis. 1,685,598; Sept. 25.
Fuel, Apparatus for making colloidal. H. Adams. 1,685,115; Sept. 25
Fulling wool and the like. J. Nüsslein. 1,685,680; Sept. 25.
Fumes, Apparatus for treating. M. I. Dorfan. 1,685,229; Sept. 25.
Fungicide, Dry. E. Molz. 1,685,715; Sept. 25.
Furnace: *See*—
Revivifying furnace.
Furnace. H. A. Leonhart. 1,685,710; Sept. 25.
Furnace. O. W. Randolph. 1,685,339; Sept. 25.
Furnace arch, Self-sustaining. E. P. Stevens. 1,685,617; Sept. 25.
Furnace construction, Blast-. F. H. Willcox. 1,685,208; Sept. 25.
Fuselage. E. B. Carns. 1,685,121; Sept. 25.
Game. J. W. Smith. 1,685,142; Sept. 25.
Game apparatus. M. J. Robins. 1,685,723; Sept. 25.
Gaming device. R. M. Nicholson. 1,685,201; Sept. 25.
Garment bag. H. B. Ferguson. Des. 76,384; Sept. 25.
Gas heater. W. L. Sharp. Des. 76,429; Sept. 25.
Gate: *See*—
Crossing gate.
Gate. F. H. Smith. 1,685,506; Sept. 25.
Gate mechanism. T. Brady. 1,685,225; Sept. 25.
Gauge: *See*—
Air-pressure gauge.
Gauge. C. Weber, jr. 1,685,109; Sept. 25.
Gear for flying machines, Landing. E. B. Carns. 1,685,119; Sept. 25.
Gear-shifting mechanism for sliding-gear transmissions, Automatic. E. A. Thompson. Re17,090; Sept. 25.
Gears, Producing bevel. E. Wildhaber and A. H. Candee. 1,685,442; Sept. 25.
Gears, Producing of. E. Wildhaber. 1,685,441; Sept. 25.
Generating system, Electrical. F. F. Starr. 1,685,101; Sept. 25.
Gland nuts, Making. W. R. Wiley. 1,685,262; Sept. 25.
Glass articles, Apparatus for and process of finishing blown-. J. Bailey. 1,685,349; Sept. 25.
Globe, Light. S. D. Wilson. Des. 76,444; Sept. 25.
Globe, Street-light. S. A. Baker. Des. 76,368; Sept. 25.
Goblet. E. M. Bottome. Des. 76,372–3; Sept. 25.
Grid leak. E. V. Gluck. 1,685,603; Sept. 25.
Grinding machine, Circular-. W. Storck. 1,685,757; Sept. 25.
Grinding machine, Lens-. W. A. Gunning. 1,685,159; Sept. 25.
Guide vane. W. M. White. 1,685,260; Sept. 25.
Guitar. J. Dopyera. Des. 76,382; Sept. 25.
Gun. G. W. Tippetts. 1,685,730; Sept. 25.
Hammer, Power. W. W. Bieler. 1,685,447; Sept. 25.
Handle for steering wheels. J. R. C. Smith. 1,685,686; Sept. 25.
Handle-securing means for shank-forming tools. J. Micali. 1,685,643; Sept. 25.
Hanger: *See*—
Safety hanger.
Hanger. P. A. Stone. 1,685,728; Sept. 25.
Harness, Dog. G. W. Philbrick. 1,685,435; Sept. 25.
Harrow, Combined disk and toothed. W. C. Dwyer. 1,685,278; Sept. 25.
Harrow, Tandem-disk. C. H. White. 1,685,110; Sept. 25.
Hat and making the same. J. T. Curtis. 1,685,190; Sept. 25.
Hat guard. F. W. J. Wolff. 1,685,263; Sept. 25.
Hat protector. G. K. Guinzburg. 1,685,586; Sept. 25.
Head for lighting units. F. G. Welsch. Des. 76,442; Sept. 25.
Header, Kafir-corn. A. G. Stevenson. 1,685,507; Sept. 25.
Headlight and mounting for toy railway cars. H. S. Becker. 1,685,691; Sept. 25.
Headlight, Dirigible. F. Lipke. 1,685,092; Sept. 25.
Heater: *See*—
Coil heater. Water heater.
Heater for long bars, Electric. W. S. Johnson and J. W. Sheffer. 1,685,133; Sept. 25.
Heating and ventilating apparatus. C. T. Morse. 1,685,610; Sept. 25.
Heating and ventilating apparatus, Hot-air. J. C. Miles. Re17,089; Sept. 25.
Heating attachment for windshield wipers, Electric. E. Adams. 1,685,389; Sept. 25.
Heating high-temperature apparatus. C. L. Burdick. 1,685,226; Sept. 25.
Heating liquids, Apparatus for electrically. G. Baum. 1,685,210; Sept. 25.
Heating liquids by electrical energy for distillation, concentration, provocation of chemical reactions, etc. G. Baum. 1,685,266; Sept. 25.
Heating unit, Water-. A. T. Johanson. 1,685,453; Sept. 25.
Heel-dropping machine. N. L. Gulliford. 1,685,743; Sept. 25.
Heel-seat fitting and molding machine. J. A. Kelly. 1,685,363; Sept. 25.
Hinge for an eyeglass frame. J. J. Pomeranz. Des. 76,415; Sept. 25.
Hinge, Toilet-seat. P. A. Johnson. 1,685,088; Sept. 25.
Holder, Cigar and cigarette. R. L. Whitsel. 1,685,182; Sept. 25.
Holder, Cigarette-package. M. J. Mangan. 1,685,765; Sept. 25.
Holder, Dish. G. H. Carter. Des. 76,377; Sept. 25.
Holder for sinks, Dishpan. J. R. Jewett, jr. 1,685,233; Sept. 25.
Holder, Lip-stick. A. H. Noble. 1,685,768–9; Sept. 25.
Holder, Print or film. M. F. Dean. 1,685,584; Sept. 25.
Holder, Razor-blade. C. A. Clark. 1,685,703; Sept. 25.
Holder, Watch. H. Schlacht. Des. 76,424; Sept. 25.
Holding block for broaching half bearings. L. C. Blomstrom. 1,685,224; Sept. 25.
Hook: *See*—
Bull hook. Snap hook.
Hook. H. Bartenbach and A. E. Freeman. 1,685,145; Sept. 25.
Hooked and lapped side seam for tubular bodies and making the same. J. M. Young. 1,685,384; Sept. 25.
Hosiery-finishing apparatus. T. W. Prosser and J. H. Wahlbeck. 1,685,753; Sept. 25.
Humidifier. F. F. Bahnson. 1,685,221; Sept. 25.
Humidifier. A. F. Mark. 1,685,198; Sept. 25.
Hydrocarbon engine. J. E. Fuller. 1,685,282; Sept. 25.
Hydrochloride, etc., Preparation of betaine. D. K. Tressler. 1,685,758; Sept. 25.
Ice-cream cutter, Brick. C. A. Kulenkampff. 1,685,700; Sept. 25.
Indicator: *See*—
Fare indicator. Latitude indicator.
Induction motor. H. Maxwell. 1,685,677; Sept. 25.
Injector, Steam and air. J. Doherty. 1,685,482; Sept. 25.
Insect trap. A. S. Northrup. 1,685,241; Sept. 25.
Inspecting apparatus. A. Broadmeyer. 1,685,761; Sept. 25.
Insulated conductor. R. R. Williams. 1,685,386; Sept. 25.
Insulating board. D. Finley. 1,685,320; Sept. 25.
Insulating units, Making sound and vibration. S. Rosenzweig. 1,685,244; Sept. 25.
Insulation of conductors used in electrical apparatus. C. A. Parsons and J. Rosen. 1,685,722; Sept. 25.

Internal-combustion engine. W. P. Deppé. 1,685,564; Sept. 25.
Interual-combustion engine. L. Lagali. 1,685,639; Sept. 25.
Jack: *See*—
Scaffold jack.
Jack. C. F. Guerin. 1,685,697; Sept. 25.
Jack-hammer support. F. T. Nowalk. 1,685,372; Sept. 25.
Joint: *See*—
Rail joint. Universal joint.
Journaling means for hollow float-arm shafts. J. Elge. 1,685,527; Sept. 25.
Key case. A. H. Merrill. 1,685,288; Sept. 25.
Key Driving. M. Sklovsky. 1,685,098; Sept. 25.
Kneading machine. F. Aeschbach. 1,685,186; Sept. 25.
Kneading machine. F. Kempter. 1,685,637; Sept. 25.
Knife bar for paper cutting and folding machines. H. F. Bechman. 1,685,532; Sept. 25.
Knitted fabric. M. D. Brown. Des. 76,376; Sept. 25.
Label and manufacturing the same, Printed. A. and M. Rosenthal. 1,685,140; Sept. 25.
Lace for footwear. C. Jansen. 1,685,489; Sept. 25.
Ladder Combined step and wall or extension. C. F. Hammond, and W. Shackleton. 1,685,632; Sept. 25.
Lamp. F. Thurber. 1,685,251; Sept. 25.
Lamp Automobile head. H. H. Witzel. 1,685,690; Sept. 25.
Lamp bulb or similar article, Incandscent. A. Weber. Des. 76,441; Sept. 25.
Lamp Electric table. S. Westerfield. Des. 76,443; Sept. 25.
Lamp shade. D. V. Genachte. Des. 76,437; Sept. 25.
Lantern and supporting bracket, Combined porch. R. S. Aspinwall. Des. 76,367; Sept. 25.
Latch. O. P. Cramer. 1,685,274; Sept. 25.
Latch construction, Door-. J. E. Gloekler. 1,685,419; Sept. 25.
Latch Motor-vehicle hood. V. E. Wuthnow. 1,685,475; Sept. 25.
Latching means for door-lock handles. W. C. Devereaux. 1,685,317; Sept. 25.
Latitude indicator. E. C. Sparling. 1,685,762; Sept. 25.
Lead cames, Making. W. J. Burrows. 1,685,518; Sept. 25.
Lens retainer. E. D. Springer. 1,685,575; Sept. 25.
Lever, Flush-tank-operating. E. L. Delany. 1,685,152–3; Sept. 25.
Lever for machine tools, Controlling. E. P. Burrell and G. W. Drake. 1,685,310; Sept. 25.
Lid holder for containers. G. Trulock. 1,685,560; Sept. 25.
Lid, Journal-box. R. J. Scheibli, jr. 1,685,097; Sept. 25.
Lifeboat. D. S. Neill. 1,685,719; Sept. 25.
Light: *See*—
Dash light. Vehicle light.
Light-control appliance. A. A. Savasky. 1,685,438; Sept. 25.
Light-projecting device. E. P. McClure. 1,685,609; Sept. 25.
Lighter, Automatic torch. F. J. Heybach. 1,685,633; Sept. 25.
Lighting-fixture bar or article of analogous nature. A. R. Krause. Des. 76,402; Sept. 25.
Lighting fixture, Electric-. E. C. White. 1,685,620; Sept. 25.
Lighting system, Electric-. R. H. Sullivan. 1,685,576; Sept. 25.
Limb, Artificial. K. Neumann. 1,685,290; Sept. 25.
Linkwork apparatus, Lever. A. G. Murdoch. 1,685,718; Sept. 25.
Linoleum or sigilar hard-surfaced floor covering. E. J. Humphreys. Des. 76,395; Sept. 25.
Liquids, Apparatus for delivering measured quantities of. E. C. F. Oakley. 1,685,409; Sept. 25.
Lock: *See*—
Automobile lock. Nut lock.
Lock. W. H. Edwards. 1,685,154; Sept. 25.
Lock and latch. A. Knesch. 1,685,708; Sept. 25.
Lock and release for concrete mixers, Automatic. M. Gilson. 1,685,529; Sept. 25.
Lock for counterbalancing devices, Safety. C. P. Grimes. 1,685,585; Sept. 25.
Lock-shaft-securing means. W. C. Devereaux. 1,685,316; Sept. 25.
Locking mechanism for removable containers. B. F. Fitch. 1,685,350; Sept. 25.
Locomotive driving box. J. G. Blunt. 1,685,212; Sept. 25.
Loud-speaker unit. M. R. Hutchison. 1,685,086; Sept. 25.
Lubricant-expelling device. H. J. Murphy. 1,685,408; Sept. 25.
Lubricating apparatus. G. Johnson. 1,685,404; Sept. 25.
Lubricating device. O. J. Herb. 1,685,359; Sept. 25.
Lubricating device. W. Raeburn. 1,685,378; Sept. 25.
Lumber-repairing machine, Defective-. H. B. Leash. 1,685,366; Sept. 25.
Macaroni die. M. Tanzi. 1,685,249; Sept. 25.
Machine and drying crinkled paper. W. A. Lorenz. 1,685,427; Sept. 25.
Machine for opening oysters. O. Schenk. 1,685,296; Sept. 25.
Machine for paper-making processes. H. D. Wells. 1,685,736; Sept. 25.
Machine for producing post-office classification slips. J. P. Davis and S. Helman. 1,685,352; Sept. 25.
Machine for rolling soles. C. and P. Nohr. 1,685,355; Sept. 25.
Machine for securing bridge wires to lead wires of electric blasting caps. J. Stuart, 2d. 1,685,344; Sept. 25.
Machine for treating grain. W. A. Rogers. 1,685,179; Sept. 25.
Machine for use in making boxes. S. F. Bauwens. 1,685,626; Sept. 25.
Machine for wrapping up razor blades. P. Gangler. 1,685,601; Sept. 25.
Machine parts, Method and device for balancing rotating. E. A. F. Punga. 1,685,094; Sept. 25.
Machines and the like, Hydraulic drive for broaching. D. H. West. 1,685,760; Sept. 25.
Mail box. A. E. Blackman. 1,685,222; Sept. 25.
Mail-carrier mechanism. L. Auble. 1,685,593; Sept. 25.
Manikin, Mechanical. C. L. Harcourt. 1,685,358; Sept. 25.
Margin spacer for typewriters, Bottom. R. M. Davis. 1,685,314; Sept. 25.
Measuring machines, Subdividing attachment for. J. R. Litty and T. B. Lundin. 1,685,425; Sept. 25.
Mechanical movement. G. O. Wilms. 1,685,113; Sept. 25.
Mechanism for making side-seam envelopes. C. L. Tucker. 1,685,469; Sept. 25.
Memorandum holder for automobile steering wheels. J. Polite. Des. 76,414; Sept. 25.
Metal article, Composite. W. R. Whitney. 1,685,637; Sept. 25.
Metal-working machine. H. C. Erdman. 1,685,319; Sept. 25.
Metal-working machines, Cut-off mechanism for. J. and B. Province. 1,685,377; Sept. 25.
Mining machine. M. P. Holmes. 1,685,403; Sept. 25.
Mirror bracket. W. La Hodny. 1,685,544; Sept. 25.
Mode of producing wrought iron with increased tensile properties. G. G. Gedda. 1,685,602; Sept. 25.
Mold: *See*—
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Mold construction, Permanent. H. S. Lee. 1,685,545; Sept. 25.
Mold for casting magnesium and making same, Sand. G. Michel. 1,685,553; Sept. 25.
Molding ring. E. Zuellig. 1,685,660; Sept. 25.
Mop. C. Trevena. 1,685,731; Sept. 25.
Motor: *See*—
Induction motor. Water motor.
Motor controller. E. W. Seeger. 1,685,461; Sept. 25.
Motor stand. M. Talgmann. 1,685,103; Sept. 25.
Motor-vehicle front assembly. E. W. Senholm and H. J. Earl. Des. 76,428; Sept. 25.
Motors, Suspension for electric railway. A. F. Masury. 1,685,430; Sept. 25.
Mounting for water-purifying apparatus. I. D. Gronk. Des. 76,391; Sept. 25.
Mounting, Removable-unit. W. B. Jupp. 1,685,569; Sept. 25.
Muffler. H. E. Tyler. 1,685,302; Sept. 25.
Muffler for internal-combustion engines, Exhaust-gas. J. Blanchard. 1,685,701; Sept. 25.
Musical instrument. F. W. Fellows. 1,685,401; Sept. 25.
Musical instrument. F. Gretsch. 1,685,706; Sept. 25.
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Musical instruments, Operating means for. A. Nelson. 1,685,240; Sept. 25.
Nail-making machine. R. W. Strout. 1,685,439; Sept. 25.
Nailing strip or block. C. M. Johnson. 1,685,491; Sept. 25.
Name plate. A. L. Myers. 1,685,334; Sept. 25.
Nitrites, Production of. E. T. Drake. 1,685,629; Sept. 25.
Nut lock. E. B. Carns. 1,685,120; Sept. 25.
Oil burner, Hydrocarbon-. J. M. Gee. 1,685,567; Sept. 25.
Oil from oil-containing substances, Apparatus for the separation of. C. Drahn. 1,685,534; Sept. 25.
Oil-well elevator. J. F. Moody. 1,685,713; Sept. 25.
Oils and fats, Purifying. W. Gensecke. 1,685,195; Sept. 25.
Operating electric switches, Mechanism for. L. W. Bond. 1,685,665; Sept. 25.
Optical system. R. Ruhnan. 1,685,646; Sept. 25.
Optical system for color processes. C. W. Frederick. 1,685,600; Sept. 25.
Ore-concentrating device. M. M. Newton. 1,685,644; Sept. 25.
Ore separator. E. H. Stepp. 1,685,466; Sept. 25.
Oxidation, Controlling rate of. H. R. Carveth. 1,685,520; Sept. 25.
Oxidation of anthracene, Catalytic. A. O. Jaeger. 1,685,635; Sept. 25.
Package and making the same, Preservative. G. W. Beadle. 1,685,392; Sept. 25.
Parachute. D. Huriburt. 1,685,422; Sept. 25.
Parachute. A. R. Thörnblad. 1,685,688; Sept. 25.
Parrot stand. L. J. Leon. Des. 76,406; Sept. 25.
Pedometer. R. V. Owen. 1,685,242; Sept. 25.
Pen, Fountain. F. M. Ashley. 1,685,413–14; Sept. 25.
Pencil, Magazine. F. Partos. 1,685,374; Sept. 25.
Perch for preventing bird trouble in connection with electrical transmission lines, Insulated. A. O. Austin. 1,685,663; Sept. 25.
Perforator. W. S. Jones and H. U. Baker. 1,685,492; Sept. 25.
Pharmaceutical products. W. Schoeller, A. Feldt, M. Gehrke, and E. Borgwardt. 1,685,341; Sept. 25.

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

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ERRATA.

1,682,779, page 82 (issue of Sept. 4, 1928), in the heading, lines 2 and 3, strike out "assignor to The E. T. Burrowes Company, Portland, Me., a Corporation of Maine."

1,685,322, page 829 (issue Sept. 25, 1928), strike out the word "Withdrawn" and insert *Apparatus for Forging or Forming Metal Articles. Frank Scott, Sheffield, England. Filed Oct. 11, 1927. Serial No. 225,526.*

Patents Nos. 1,685,770 to 1,686,505.

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 375—No. 1. TUESDAY, OCTOBER 2, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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Prints	13—No.	11,244 to No.	11,256, inclusive.
Reissues	6—No.	17,091 to No.	17,096, inclusive.
Designs	70—No.	76,447 to No.	76,516, inclusive.
Patents	736—No.	1,685,770 to No.	1,686,505, inclusive.
Total	1,138		

Adjudicated Patents.

(C. C. A. Mich.) The Whittier patent, No. 970,672, for refrigerator-shelf support, claims 7 and 8 *Held* invalid. *Grand Rapids Refrigerator Co.* v. *Stevens*, 27 F. (2d) 248.

(C. C. A. Mich.) The Whittier patent, No. 1,147,288, for enameled or porcelain-coated refrigerator linings, claims 1, 2, and 4 *Held* not infringed. *Id.*

(D. C. Ga.) The Schulde patent, No. 1,225,682, for improvements in show-case refrigerator, *Held* invalid. *Harry L. Hussman Refrigerator & Supply Co.* v. *Warren*, 27 F. (2d) 450.

(C. C. A. Ohio.) The Smith patent, No. 1,262,860, for incubator, *Held* not infringed. *Buckeye Incubator Co.* v. *Blum*, 27 F. (2d) 838.

(C. C. A. Mich.) The Hoffman patent, No. 1,353,161, for disk wheel for automobiles, claims 1, 2, and 8 *Held* valid and infringed. *Motor Wheel Corporation* v. *Hoffman*, 27 F. (2d) 221.

(C. C. A. Ill.) The Slattery patent, No. 1,438,561, for repair link for automobile tire chains, claims 1 and 2 *Held* valid and infringed. *Slattery* v. *Johnson Motor Products Co.*, 27 F. (2d) 209.

(D. C. Ga.) The Schulde patent, No. 1,447,733, for improvements in show-case refrigerator, claims 10, 12, and 13 *Held* invalid. *Harry L. Hussman Refrigerator & Supply Co.* v. *Warren*, 27 F. (2d) 450.

(C. C. A. Ohio.) The Connelly patent, No. 1,522,577, for method of tunnel excavation, *Held* invalid. *Connelly* v. *Anderson*, 27 F. (2d) 330.

(D. C. Mich.) The Putnam patent, No. 1,537,879, for pneumatic-treaded vehicle wheel, claims 1 and 2 *Held* invalid. *Steel Wheel Corporation* v. *B. F. Goodrich Rubber Co.*, 27 F. (2d) 427.

(D. C. Pa.) The Haiss reissue patent, No. 15,515, for improvement in wagon loaders, claims 8 and 9 *Held* invalid. *George Haiss Mfg. Co.* v. *Link Belt Co.*, 27 F. (2d) 397.

(C. C. A. Ill.) The Flint reissue patent, No. 15,687, for a guide showing comparative express and parcel-post rates, *Held* invalid. *Flint et al.* v. *G. R. Leonard & Co. et al.*, 27 F. (2d) 215.

APPLICATIONS.

PRELIMINARY AMENDMENT.

Additional Claims.

U. S. Patent Office, *Washington, Aug. 18, 1928.*

My attention has just been called to an application filed with 64 claims and a filing fee of $64.00, as required by statute. Six days after the application was filed the applicant presented an amendment adding 84 additional claims, without the extra fee of $1.00 per additional claim, as would have been required by the statute had the claims been presented six days earlier. In cases in which claims in excess of the number corresponding to the filing fee are presented before the first official action on the case, the Examiners will place the amendment in the file and enter it on the file wrapper, but will defer action on the claims presented in the amendment. In his first action the Examiner should act on the claims originally presented and for which the appropriate fee was paid. If, after the official action is made, the applicant believes that any of the claims presented by the amendment are patentable, he can have them entered and considered in the next action, but only by specifically pointing out wherein the claims presented in the amendment are patentable over the references cited by the Examiner.

THOMAS E. ROBERTSON,
Commissioner.

3827

Condition of Applications Under Examination at Close of Business September 21, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 113,271; Trade-Mark Division, 2,067. Oldest new case, Nov. 22, 1927; oldest amended, Nov. 22, 1927. The dates given are 1928 except where † indicates 1927.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Jan. 27	Feb. 4	1,562
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Jan. 25	Feb. 8	1,694
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Jan. 4	Jan. 18	1,549
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	†Dec. 2	†Dec. 1	1,645
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	†Dec. 9	†Dec. 13	1,592
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	†Dec. 21	†Dec. 27	2,563
106	7. JARBOE, C. G., Optics; Photography	†Dec. 3	†Dec. 7	2,032
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Feb. 9	Feb. 28	1,686
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 15	Mar. 12	1,787
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Jan. 16	Jan. 19	1,857
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Feb. 24	Feb. 1	977
380	12. PIERCE, P. P., Machine Elements	Jan. 31	Jan. 20	2,017
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Jan. 20	Jan. 6	1,500
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	†Dec. 22	†Dec. 30	1,252
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 3	Jan. 7	2,545
242*	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 21	Jan. 26	1,173
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Dec. 15	Feb. 1	1,532
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	†Dec. 12	†Dec. 23	1,656
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Jan. 9	Jan. 4	1,921
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Mar. 22	Mar. 20	1,480
212	21. THURBUR, W. L., Textiles; Cloth Finishing	†Dec. 31	Jan. 9	1,092
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	†Dec. 8	†Dec. 19	1,647
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	†Dec. 5	†Dec. 8	1,142
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Dec. 16	†Dec. 19	1,529
302*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 15	Feb. 25	1,723
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Jan. 9	Jan. 16	1,199
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Feb. 16	Mar. 2	1,457
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 3	Jan. 4	1,978
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Jan. 23	Jan. 20	1,187
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Jan. 11	Mar. 17	1,476
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Jan. 13	Jan. 13	2,154
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	†Dec. 29	†Dec. 21	2,186
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Apr. 12	Apr. 10	1,955
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	†Dec. 5	†Dec. 13	1,432
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Mar. 22	Mar. 26	1,670
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Feb. 21	Feb. 14	2,073
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Dec. 14	Jan. 21	2,254
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Feb. 13	Feb. 13	1,916
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Nov. 28	†Nov. 23	1,893
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	†Dec. 27	Feb. 1	2,701
125	41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Jan. 6	Feb. 18	1,487
223*	42. CUTTINO, H. O., Electric Signaling	†Dec. 9	Jan. 9	1,660
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Jan. 17	Feb. 27	2,240
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Jan. 9	Jan. 9	2,139
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	†Dec. 12	†Dec. 15	2,474
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	†Dec. 8	†Dec. 8	1,920
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Jan. 16	Jan. 31	2,085
212*	48. ROEPKE, O. B., Electricity, General Applications	Jan. 16	Jan. 10	1,602
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	†Dec. 1	Jan. 19	1,584
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Jan. 16	Jan. 20	2,603
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Jan. 9	Jan. 5	2,206
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Jan. 30	Jan. 26	2,198
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Jan. 27	Jan. 30	1,807
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Jan. 5	Jan. 5	2,413
102	55. BOWEN, S. T., {Bread, Pastry, and Confection Making; Cutlery	†Dec. 19	†Dec. 30	912
	{Designs	July 26	Aug. 21	645
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	†Nov 22	†Nov. 22	2,616
287*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Jan. 4	Jan. 14	1,211
270*	58. DOWELL, E. F., Abrading; Typewriting	†Dec. 3	†Dec. 3	1,460
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	†Dec. 6	†Dec. 12	2,539
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	†Nov. 28	†Dec. 14	1,655
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	†Dec. 3	†Dec. 2	2,169
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	†Dec. 12	Jan. 6	2,772
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	Aug. 22	Sept. 11	1,863
	{Labels and Prints	Aug. 23	Sept. 8	204

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

KNIGHT *v.* FISCHER.

No. 1,998. Decided March 5, 1928.

INTERFERENCE—PRIORITY.

Where F. had established that he was the first to reduce the invention to practice, *Held* that the testimony for K. was either insufficient to establish that he was the first to conceive the invention or, if sufficient to establish that fact, was insufficient to show that he was diligent in reducing the invention to practice and priority was properly awarded to F.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Nelson J. Jewett for Knight.

Mr. A. J. Fihe for Fischer.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

VAN ORSDEL, *J.:*

This is an interference proceeding involving a device for molding minced meats into blocks so that it can be conveniently sliced for use in making sandwiches. The issue is involved in a single count, as follows:

In a mold of the class described, a body portion having angularly disposed walls, said body portion opening along a line extending lengthwise thereof, said body portion being constructed to be sprung apart from a corner thereof.

It is conceded that the party Fischer was the first to reduce the invention to practice; and the dates accorded him by the tribunals of the Patent Office for reduction to practice in April 1923, and for conception in December 1922, are fully supported by the record.

To overcome these dates the party Knight attempted to establish a date of conception as early as July 1922, when he claims to have seen a square mold at Hazard, Ky., which was manufactured by Swift & Company. He testified that on returning home he took the matter up with one Miles, sales manager of the Louisville Provision Company, and they experimented in making square sausages. This experiment was a failure, however, because the sausage had to be boiled in the square mold and then removed from the mold and smoked. Later the party Knight, in company with Miles, visited a plant in Indianapolis, Ind., and were shown a round mold, at which time Knight claims that he suggested the possibility of making a mold out of wire. On returning to Louisville, Knight and Miles took up the matter of manufacturing a square container that would obviate the trouble they had experienced in connection with perforated and solid molds. The record, however, is silent as to what actually resulted from the experimental work of Knight and Miles.

Knight claims that he then made known his ideas to one Poschinger, and asked him to manufacture some molds that would be workable. Knight claims that he furnished Poschinger some sketches, but this is definitely denied by Poschinger, who says that Knight simply gave him an oral description of what he wanted. Poschinger prepared some molds which, it may be conceded, fairly came within the issue, but Poschinger testifies that the first time the idea of a square mold was brought to his attention by Knight was "about July 1923". This, of course, is too late a date to be of any advantage to Knight.

Taking the testimony as a whole, we fully agree with the conclusion of the Commissioner that—

the nature of the ideas that he imparted to Poschinger does not appear, but even assuming that at the time he called Poschinger to his aid he was in possession of a clear and definite conception of the invention in issue, which assumption is inconsistent with Poschinger's testimony, still Knight could not be given a date of conception earlier than Fischer's date. * * * If Knight be given a date of conception as early as July 1922, then it must be held that he was lacking in diligence. No reasonable excuse has been offered for a delay of more than a year in embodying the simple inventive concept in issue in an operative mold.

In any view of the case Fischer, as found by the concurrent decisions of the tribunals below, must prevail.

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

FORD MOTOR COMPANY *v.* PARTRIDGE, SINGER & BALDWIN, INC.

No. 2,048. Decided May 7, 1928.

1. TRADE-MARKS—"WARFORD" AND "FORD" NOT DECEPTIVELY SIMILAR.

The appearance and pronunciation of the word "Warford" is so distinctively different from the word "Ford" standing alone as to obviate any probability of confusion either as to origin or reputation.

2. SAME—CORPORATE NAME.

The last syllable in the mark "Warford" is a word in common use and is the same as the ending of many surnames and is not an appropriation of the corporate name of the Ford Motor Company.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. C. R. Halbert, Mr. E. S. Rogers, Mr. C. M. Thomas, and *Mr. F. D. Thomas* for Ford Motor Company.

Mr. D. L. Morris for Partridge, Singer & Baldwin, Inc.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

This appeal is from the decision of the Commissioner of Patents dismissing appellant's petition for the cancellation of the registered trade-mark of appellee company, consisting of the word "Warford," used on automobile transmissions.

Cancellation is sought first on the ground that the registered mark has for—

its principal characteristic and predominating feature the word "Ford," which is the principal characteristic and predominating feature of the Ford Motor Company's corporate name;

and second, that the registered mark—

is so similar to the trade-mark of the Ford Motor Company as to be likely to cause confusion in the minds of the public, and is calculated to deceive and mislead the public into the belief that the goods of the said Partridge, Singer & Baldwin, Inc., are produced and sold by the Ford Motor Company.

We agree with the decision of the Commissioner that the last syllable in registrant's mark is a word in common use, and is the same as the ending of many surnames, and is not such an appropriation of appellant's corporate name as to justify legal intervention; and that the appearance and pronunciation of the word "Warford" is so distinctively different from the word "Ford" standing alone, as to obviate any probability of confusion either as to origin or reputation.

For the same reason the second ground advanced in support of the petition for cancellation was properly denied by the tribunals below. The testimony discloses the use of registrant's mark since January, 1922; and the goods manufactured are intended for use and sold by dealers for use on Ford automobiles, and though appellee company in the meantime has built up a business of approximately $7,000,000, no evidence was submitted of actual confusion of either goods or origin. Neither are we of opinion that the marks are so similar as to probably lead to confusion.

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

IN RE BLISS.

No. 2,053. Decided May 7, 1928.

1. PATENTABILITY—INVENTION—NONANALOGOUS ARTS.
Trunks belong to the art of baggage, which is different from the art classified under paper receptacles.

2. SAME—SAME.
A claim for a shipping case including certain specified details of the corner construction *Held* patentable over the prior art.

APPEAL from the Commissioner of Patents. Reversed.

Mr. S. C. Barnes, *Mr. C. M. Thomas*, and *Mr. F. D. Thomas* for Bliss.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.*:

This appeal is from the decision of the Commissioner of Patents denying appellant a patent for a fiber-board shipping case.

The invention is described by the Examiner as follows:

> The invention claimed consists of a shipping case made from three blanks, a main blank which has three panels and two cover wings, each panel having foldable corner flaps, the three panels, when folded, forming the two side walls and the bottom of the case and two end blanks having foldable corner flaps. When the corner flaps of the main blank and the end blanks are folded against the adjacent blank double reinforced corners are formed.

The references cited on which the patent was denied are as follows: (248) Lemon, 1,428,597, September 12, 1922; (834) Bliss, 1,430,151, September 26, 1922; (210) Walter, 1,198,293, September 12, 1916; (87) Forward, 1,160,871, November 16, 1915; (31) Morrow, 361,885, April 26, 1887.

The object of the inventor is to produce a fiber-board box of superior strength by the use of a minimum amount of material, that will be able to withstand the hardships of shipping and will be strong enough to withstand the crushing strains when stacked one upon another either in shipping or in warehouses. The advantages of the invention are described in the specification as follows:

> I also find this case a great advantage in connection with damp goods such as soap, butter, oleomargarine, and similar products. Soap shrinks and leaves a clearance in the inside of the package, so that the package itself has to be able to support the stresses and strains brought upon it in stacking and handling. Butter and oleomargarine are shipped in refrigerator cars and stored in refrigerators. The board becomes damp and soft and great strength at the corners is needed to keep it in good condition.

The principal feature of appellant's invention consists in so folding and adjusting the corners that there will be a double reenforcement of the corners of equal and uniform strength from top to bottom. This feature, we think, is not shown in any of the references, with the exception of possibly the patent to Morrow, which will be referred to hereafter.

The Forward and Koff patents relate to suitcases, but neither of these references disclose corners having uniform double column strength. A double-angle-strip corner of uniform width extending from the top to the bottom of the box is not disclosed. In these references the inside and outside flaps in the corners are so cut in triangular shape that the result obtained, so far as resisting crushing strains, are not comparable to the resistance obtained by appellant. In other words, while there would be in the suitcases produced by Forward and Koff considerable column strength at the top, this diminishes to nothing at the bottom. Besides, they disclose a waste of stock in construction, which is not found in appellant's device.

Coming to the patents to Lemon and Bliss, we find that they disclose only a single angle and not the double angle of the device before us. In other words, it appears that the applicant has taken the main blank of the Lemon patent, which discloses the angle fold at the end of the box, and combined it with the two end blanks of the Bliss patent, with the angle fold at the sides, and by combining the two has secured practically double strength with little increase in the amount of material used. The combination thus made by applicant removes his invention from the field of the Bliss and Lemon patents.

This brings us to the Morrow patent, which is used as a reference. This shows the double angle as applied in the construction of trunks. It belongs to a different art; namely the baggage art, which is different from the art classified under paper receptacles. While the use in the two inventions is similar, the method of construction is entirely different.

In inventions relating to simple articles, which consist largely in the making of valuable improvements over the prior art, it is quite usual to find a counterpart in some other art which is suggestive of the invention under immediate consideration. For example an angle iron used to protect the edge of a wooden pavement did not anticipate an angle iron used to protect the edge of a concrete or asphalt pavement. *Goodwin* v. *International Steel Tie Co.*, 2 Fed. (2d) 198. It was also held that a celluloid cap for salt cellars was not anticipated by a celluloid cap for talcum bottles. *Westmoreland Specialty Company* v. *Hogan*, 167 Fed. 327. It was likewise held that a metal dome driven into the bottom end of chair legs to take the place of castors is not anticipated by a similar device used on the bottom of travelers' grips. *Barry* v. *Harpoon Castor Company*, 209 Fed. 207.

While the present case is a close one, we are of opinion that the applicant has contributed something to the art, entitled to protection under the patent laws. It has been the policy of this court, as announced in many cases, to give the inventor the benefit of the doubt when any doubt exists. We think the present case comes within the rule, and that the applicant is entitled to a patent.

The decision of the Commissioner is reversed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,013,540, K. S. Faucette, Cutter head, filed Aug. 1, 1928, D. C., W. D. Wis., Doc. E 1320, *K. S. Faucette et al.* v. *Wisconsin Knife Works.*

1,020,593, J. W. Aylsworth, Phenolic condensation product and method of preparing same; 1,098,608, same, Enamel lacquer or varnish; 1,038,475, L. H. Backeland, Process of making insoluble bodies derived from phenol alcohols, filed July 30, 1928, D. C., S. D. N. Y., Doc. E 46/74, *Bakelite Corp.* v. *General Plastics, Inc.*

1,038,475. (See 1,020,593.)

1,050,441, R. A. Fessenden, Electric signaling apparatus; 1,050,728, same, Method of signaling; 1,239,852, F. K. Vreeland, Receivers of electrical impulses; 1,245,166, same, Method of transmitting and receiving high-frequency signal impulses, D. C., S. D. N. Y., Doc. E 45/241, *Radio Corp. of America et al.* v. *S. J. Novick et al.* (*Wholesale Radio Service Co.*). Patents held valid and infringed July 30, 1928.

1,050,728. (See 1,050,441.)

1,087,514, 1,185,139, M. M. Smolensky, Valve for pumps; 1,124,821, same, Sash lock; 1,147,343, 1,222,154, same, Check valve; 1,154,450, same, Work holder for machine tools, filed Aug. 2, 1928, D. C., N. D. Ohio, E Div., Doc. 2625, *A. Kendzierski et al* v. *The Smolensky Valve Co.*

1,098,608. (See 1,020,593.)

1,107,496, E. Collinson, Barometer, filed July 31, 1928, D. C., S. D. N. Y., Doc. E 46/101, *F. E. Collinson et al.* v. *Bauer Thermometer Co.*

1,108,184, T. Kerner, Garbage or refuse incinerator, filed July 28, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2160, *Kerner Incinerator Co.* v. *E. H. Forster et al.* Doc. 2359, *Kerner Incinerator Co.* v. *Economy Incinerator Co.*

1,124,673, I. Stone, Apparatus for feeding paper to printing presses, C. C. A., 7th Cir., Doc. 3993, *Cline Electric Mfg. Co. et al.* v. *G. A. Kohler.* Affirmed July 6, 1928.

1,124,821. (See 1,087,514.)

1,125,476 (*a*), G. Claude, System of illuminating by luminescent tubes, D. C., S. D. Calif. (Los Angeles), Doc. E O–5–J, *Electrical Products Corp.* v. *Western Neon Sign Co., Inc.* Consent decree and injunction July 26, 1928. Doc. E O–6–J, *Electrical Products Corp.* v. *U. S. Neon Sign Co.* Consent decree and injunction July 23, 1928. Doc. E O–7–J, *Electrical Products Corp.* v. *National Neon Corp.* Decree as above. Doc. E O–8–J, *Electrical Products Corp.* v. *L. M. Bell* (*California Electric Sign Co.*). Decree as above.

1,125,476 (*b*), G. Claude, System of illuminating by luminescent tubes; 1,191,495, same, Separating neon from gases with which it is mixed, filed June 25, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–116–H, *Electrical Products Corp.* v. *Tubalite Corp. et al.* Consent decree and injunction as to claim 1 of 1,125,476 July 26, 1928.

1,147,343. (See 1,087,514.)

1,154,450. (See 1,087,514.)

1,158,058, J. H. King, Centrifugal burner, C. C. A., 7th Cir., Doc. 3987, *Hardinge Bros., Inc.*, v. *Marr Oil Heat Machine Corp. et al.* Affirmed July 6, 1928.

1,181,623, H. R. Van Deventer, Electrical condenser and manner of mounting same; 1,574,424, H. A. Hatch, Condenser, D. C., S. D. N. Y., Doc. E 31/345 and E 36/106, *Splitdorf Electrical Co.* v. *Dubilier Condenser Corp.* Patent 1,181,623 held valid and infringed as to claims 6 and 7; Patent 1,574,424, held not infringed and complaint in E 36/106 dismissed Aug. 2, 1928.

1,185,139. (See 1,087,514.)

1,191,495. (See 1,125,476.)

1,222,154. (See 1,087,514.)

1,239,852. (See 1,050,441.)

1,248,064, O. A. Hepper, Roofing strip, D. C., S. D. N. Y., Doc. E 27/242, *The Richardson Co. et al.* v. *The Ruberoid Co.* Patent held valid and infringed July 30, 1928.

1,245,166. (See 1,050,441.)

1,272,253. (See 1,547,117.)

1,279,333. (See 1,547,117.)

1,338,829. (See 1,547,117.)

1,343,600, West & West, Printer's table, C. C. A., 1st Cir., Doc. 2195, *J. West et al.* v. *Premier Register Table Co.* Affirmed (notice dated July 30, 1928).

1,360,256, 1,528,178, E. Anderson, Can opener, D. C., S. D. Calif. (Los Angeles), Doc. E L–79–J, *Star Can Opener Co.* v. *National Metal Products Co. et al.* Injunction against defendants July 16, 1928.

1,361,508, J. T. Tice, Calendar rack, filed Aug. 2, 1928, D. C., N. D. Ga (Atlanta), Doc. 502, *J. T. Tice* v. *The Murray Co.*

1,388,898, Schmidt & Schmidt, Carcass dehairing and cleaning machine; 1,388,899, O. C. Schmidt, same, D. C., W. D. Okla. (Guthrie), Doc. E 859, *The Cincinnati Butcher's Supply Co.* v. *W. H. Butcher Packing Co.* Patents held valid and infringed July 23, 1928.

1,388,899. (See 1,388,898.)

1,422,759. (See 1,547,117.)

1,437,938. (See 1,547,117.)

1,437,939. (See 1,547,117.)

1,438,560, E. F. Slattery, Repair link for tire chain, C. C. A., 7th Cir., Doc. 4002, *E. F. Slattery et al.* v. *Johnson Motor Products Co.* Decree reversed and patent held valid and infringed (notice dated July 27, 1928).

1,444,217, S. Sparks, Method of making oiled paper; 1,593,128, L. L. Leadbetter, Apparatus for the manufacture of oiled paper, filed July 25, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–11–J, *California-Oregon Paper Mills* v. *Calif Fruit Wrapping Mills, Inc.*

1,470,524. (See 1,505,592.)

1,505,592. F. W. Epperson, Frozen confection; 1,470,524, H. B. Burt, Process of making frozen confection, filed July 25, 1928, D. C., S. D. N. Y., Doc. E 46/58, *Popsicle Corp. et al.* v. *I. Weiss* (*Goody Frozen Products Co.*).

1,509,406, C. E. Kraus, Plastic compounds and method of making them, filed July 23, 1928, D. C., W. D. Mich. (Grand Rapids), Doc. 2157, *American Bentonite Corp. et al.* v. *Clark Equipment Co.*

1,515,676, W. F. Grupe, Metallized product; 1,515,722, W. J. Boyd, Transfer metallized medium, C. C. A., 3d Cir. Doc. 3557, *Peerless Roll Leaf Co., Inc.*, v. *R. Lange et al.* (*General Box Top Co.*). Affirmed June 30, 1928.

1,515,722. (See 1,515,676.)

1,528,178. (See 1,360,256.)

1,544,230. (See 1,547,117.)

1,547,117, H. M. Green. Locked packing pump plunger; 1,544,230, 1,563,082, 1,422,759, same, pump; 1,279,833, 1,272,253, same, Well-cleaning device; 1,437,938, same, Packing construction for pumps; 1,338,829, same, Sand screen for pumps; 1,437,939, same, Pumping apparatus; 1,665,540, same, Gas extractor for pumps, filed July 24, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E 0-9-H, *C. M. O'Leary, jr.*, v. *Sure Lift Oil Pump Corp.*

1,561,836, N. Q. Donnelly, Apron, filed May 25, 1928, D. C., E. D. Pa., Doc. 4337, *Donnelly Garment Co.* v. *W. Rifkin*. Doc. 4433, *Donnelly Garment Co.* v. *N. Lischin*. Doc. 4447, *Donnelly Garment Co.* v. *I. Weiss*. Doc. 4453, *Donnelly Garment Co.* v. *M. Blumfield*. Doc. 4457, *Donnelly Garment Co.* v. *S. Dorfman*. Doc. 4465, *Donnelly Garment Co.* v. *H. Kassoway*. Doc. 4467, *Donnelly Garment Co.* v. *J. Weiss*. Doc. 4485, *Donnelly Garment Co.* v. *G. Uetz*.

1,563,082. (See 1,547,117.)

1,574,424. (See 1,181,623.)

1,593,128. (See 1,444,217.)

1,648,554, Lundin & McGhee, Measuring and dispensing machine, filed July 5, 1928, D. C., E. D. Pa., Doc. 4509, *American Machinery Co., Inc.*, v. *The Everedy Machine Co. et al.*

1,662,704, W. Herrschaft, Display sign, filed June 28, 1928, D. C., E. D. Pa., Doc. 4489, *W. Herrschaft et al.* v. *H. F. Fabian et al.* (*Ideal Sign Co.*).

1,664,988, I. E. Mobley, Sound reproducer, filed July 10, 1928, D. C., E. D. Pa., Doc. 4531, *I. E. Mobley* v. *J. A. Fischer Co. et al.*

1,665,540. (See 1,547,117.)

1,679,306, F. Hirsh, Slide buckle, filed Aug. 3, 1928, D. C., S. D. N. Y., Doc. E 46/114, *Adjusta Co.* v. *Alma Mfg. Co.* Doc. E 46/115, *Adjusta Co.* v. *Hazel Button Corp.*

Des. 42,398, J. Rousso, Towel cabinet, D. C., S. D. N. Y., Doc. E 36/79, *J. Rousso* v. *Elco Towel Cabinet Co., Inc.* Patent held valid and infringed Aug. 2, 1928.

Des. 60,740 (*a*), L. Siderman, Stocking; Des. 70,307, W. E. Zander, same, filed July 6, 1928, D. C., E. D. Pa., Doc. 4511, *Schletter & Zander, Inc.*, v. *Deal Knitting Mills, Inc.*

Des. 60,740 (*b*), L. Siderman, Stocking; Des. 70,307, Des. 67,920, W. E. Zander, same, filed July 6, 1928, D. C., E. D. Pa., Doc. 4513, *Schletter & Zander, Inc.*, v. *Silliko Hosiery Co.*

Des. 66,740, A. R. Krause, Wall bracket for wall lights, D. C., S. D. N. Y., Doc. E 38/6, *Lion Electric Mfg. Co., Inc.*, v. *Kaylite Mfg. Corp.* Patent held valid and infringed Aug. 2, 1928.

Des. 67,920. (See Des. 60,740 (*b*).)

Des. 70,307. (See Des. 60,740 (*a*) and (*b*).)

Des. 74,004, Faith & Klasstorner, Auto radiator-cap ornament, filed May 24, 1928, D. C., E. D. Pa., Doc. 4435, *Faith Mfg. Co.* v. *Auto Hat Holder Co., Inc., et al.*

Re. 15,687, C. W. Flint, Guide showing comparative express and parcel-post shipping rates, C. C. A., 7th Cir., Doc. 3991, *C. W. Flint et al.* v. *G. R. Leonard & Co. et al.* Affirmed July 6, 1928.

Trade-Marks Canceled.

35,104. Ointments. Caroline W. Patrick, Norwalk, Ohio. Registered September 18, 1900. Canceled September 12, 1928.

47,840. Brushes. The Rubber & Celluloid Harness Trimming Company, Newark, N. J. Registered November 21, 1905. Canceled September 12, 1928.

48,640. Brushes. Rubber and Celluloid Harness Trimming Co., Newark, N. J. Registered January 9, 1906. Canceled September 12, 1928.

48,641. Brushes. Rubber and Celluloid Harness Trimming Co., Newark, N. J. Registered January 9, 1906. Canceled September 12, 1928.

121,437. Quilts. Globe Merchandise Co., Inc., New York, N. Y. Registered April 30, 1918. Canceled August 31, 1928.

141,836. Antiseptic, disinfectant, deodorant, and prophylactic for internal and external use. American Laboratories, Incorporated, Richmond, Va. Registered May 3, 1921. Canceled August 31, 1928.

143,170. Hats, caps, and bonnets. The Smart Millinery Shop, Memphis, Tenn. Registered May 24, 1921. Canceled August 31, 1928.

167,136. Cheese and preserved cheese. Alpina Cheese Co., Burgdorf, Switzerland. Registered April 24, 1923. Canceled September 12, 1928.

176,347. Toilet preparation for chapped or rough skin, sunburn, or for use after shaving. Ernest G. West, doing business as Hutchings Medicine Company, Toronto, Ontario, Canada. Registered November 20, 1923. Canceled September 12, 1928.

178,319. Certain named fresh fruits. Associated Fruit Co., Los Angeles, Calif. Registered January 8, 1924. Canceled August 31, 1928.

211,418. Cereal breakfast food. The Wheatal Company, Bangor and Addison, Me. Registered April 13, 1926. Canceled August 31, 1928.

212,748. Breakfast cereals. The Wheatal Company, Bangor, Me. Registered May 11, 1926. Canceled August 31, 1928.

219,531. Variously-flavored extracts sold solely for the making of nonalcoholic beverages for the home. John D. Childs, doing business as Blue Ribbon Products Co., Reading, Pa. Registered October 19, 1926. Canceled August 31, 1928.

230,619. Toilet powder. The Silica Gel Products Corporation, Baltimore, Md. Registered August 2, 1927. Canceled August 31, 1928.

236,322. Preparation for treatment of toothache. Will Wilson Jackson, doing business as the No Ake Co., Sarasota, Fla. Registered December 6, 1927. Canceled August 31, 1928.

237,144. Salted peanuts. Kissimmee Peanut Company, Inc., Kissimmee, Fla. Registered January 3, 1928. Canceled September 12, 1928.

237,537. Antiseptic preparation. Petroleum Derivatives Company, Montclair, N. J. Registered January 10, 1928. Canceled September 12, 1928.

237,703. Cigarette holders. Edward E. Brosius, Seattle, Washington. Registered January 17, 1928. Canceled September 12, 1928.

238,245. Liquid hairdressing. Victor Leon, doing business as Hair-O-Lene Company, not Incorporated, Chicago, Ill. Registered January 31, 1928. Canceled September 12, 1928.

Interference Notice.

U. S. PATENT OFFICE, *Washington, Sept. 15, 1928.*

Alice L. Lynch, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of John L. Lombardo, 59-61 Broadway, Buffalo, N. Y., for registration of a trade-mark and trade-mark registered July 3, 1923, No. 169,843, to Alice L. Lynch, of 442 West Forty-Third Street, New York, N. Y., and a notice of such declaration sent by registered mail to the said Alice L. Lynch at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Alice L. Lynch, her assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. J. MOORE,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 2, 1928.

[VOL. 375. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 270,659. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed Aug. 6, 1928.

SYLVAN

For Lawn-Grass and Field Seeds.
Claims use since June 1, 1928.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 262,419. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Feb. 29, 1928.

VARSOL

For Hydrocarbon Solvents for Cleaning and Detergent Purposes.
Claims use since Jan. 4, 1928.

Ser. No. 264,315. PETER D. LUDY, Boston, Mass. Filed Apr. 4, 1928.

Nu-flex
The perfect leather mellower

Exclusive right to the words "The Perfect Leather Mellower" is disclaimed apart from the mark as shown in the drawing.
For Leather-Treating Emulsion.
Claims use since Feb. 1, 1928.

Ser. No. 266,593. THE JANSZEN COMPANY, also doing business as Janszen Grocery Company, Cincinnati, Ohio. Filed May 18, 1928.

DOT

For Wall-Paper Cleaner.
Claims use since Jan. 23, 1928.

Ser. No. 268,011. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn. Filed June 13, 1928.

INNOVATION

For Shaving-Soap Cream.
Claims use since Mar. 1, 1928.

Ser. No. 268,162. H. KOHNSTAMM & CO., INC., New York, N. Y. Filed June 16, 1928.

PENNKO

For Washing Compounds—Namely, Soap Powder.
Claims use since May 23, 1928.

Ser. No. 270,459. E. BLANCHARD, doing business as Golden State Laboratories, Larkspur, Calif. Filed Aug. 2, 1928.

METALBRITE

No claim is made to the word "Metalbrite" apart from the mark shown.
For Metal Polish.
Claims use since Mar. 15, 1928.

Ser. No. 271,303. HARRY WILLIAM HOFFHEIMER, doing business as Velco Laboratories, Chicago, Ill. Filed Aug. 20, 1928.

NU-GLASS

For Cleaner and Polish of Glass and Glassware.
Claims use since May 1, 1928.

CLASS 5.

Adhesives.

Ser. No. 266,841. WALTER R. THURSTON, doing business as Norm Manufacturing Co., Los Angeles, Calif. Filed May 22, 1928.

Thermseal

For Sealing Compound.
Claims use since Jan. 15, 1928.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 262,637. S. C. WELLS & COMPANY, Le Roy, N. Y. Filed Mar. 5, 1928.

DR. CARTER'S



No claim is made to the word "Tea" apart from the mark as shown. The portrait appearing as a part of the trade-mark is that of Dr. John S. Carter, deceased.
For Herb Tea.
Claims use since 1844.

Ser. No. 264,960. MARCEL BLUME, trading as Fairyland, Paris, France. Filed Apr. 17, 1928.

FAIRYLAND

For Perfumery, Rouge, Lip Sticks, Face Powder, and Beauty Cream.
Claims use since Dec. 22, 1927.

Ser. No. 266,787. BROWNCONE CO. INC., Jersey City, N. J. Filed May 22, 1928.

BROWNCONE'S NOABOS

For Chemical Preparations or Solutions Consisting of Mercurial Salts, Normal Oxyic Quinoline Sulphate, Carbolic Acid, Sodium Chloride, Molasses or Brown Sugar, Soluble Proteid Iodine Compounds for Use in the Treatment of Infectious Abortion in Animals.
Claims use since May 1, 1928.

Ser. No. 268,464. RHENANIA-KUNHEIM VEREIN CHEMISCHER FABRIKEN A.-G., Berlin, Germany. Filed June 21, 1928.

FORMDROPS

For Chemicals—Namely, Sodium Sulphide, Caustic Alkalies, and Sodium Bisulphate.
Claims use since Dec. 12, 1927.

Ser. No. 269,062. H. E. CUMMINGS, doing business as Livero Products Company, Jacksonville, Fla. Filed July 3, 1928.

Livero

No claim is made to the word "Liver" apart from the mark shown.
For Medicinal Preparation for Use in the Treatment of Chills, Fever, Malaria, Biliousness, Colds, La Grippe, Flu, Headache, and Dengue Fever.
Claims use since June 20, 1928.

Ser. No. 269,104. MAX FACTOR, doing business as Max Factor & Co., Los Angeles, Calif. Filed July 5, 1928.

PANCHROMATIC

For Theatrical Make-Ups—Namely, Grease Paints in Tubes, Lining Colors, Liquid Body Make-Up, Cosmetic Whitener, Rouge, Eyebrow Pencils, Talcum Powders for Use in Connection with the Aforementioned Cosmetics.
Claims use since Apr. 21, 1928.

Ser. No. 269,105. MAX FACTOR, doing business as Max Factor & Co., Los Angeles, Calif. Filed July 5, 1928.

PANCRO

For Theatrical Make-Ups—Namely, Grease Paints in Tubes, Lining Colors, Liquid Body Make-Up, Cosmetic Whitener, Rouge, Eyebrow Pencils, Talcum Powders for Use in Connection with the Aforementioned Cosmetics.
Claims use since May 25, 1928.

Ser. No. 269,130. WILLIAM A. MCINTYRE, Beavercreek, Oreg. Filed July 5, 1928.

Bill's Canadian Thistle Knocker



Wm. A. McIntyre

The portrait depicted in the drawings is an ink drawing based on a photograph of the applicant, William A. McIntyre. The name appearing beneath the portrait is a facsimile of applicant's signature. The words "Canadian Thistle" are disclaimed apart from the mark shown.
For Preparation Used in Exterminating Canadian Thistle.
Claims use since Jan. 1, 1928.

Ser. No. 269,394. PETER COATS, doing business as Florimonde, Paisley, Scotland. Filed July 11, 1928.

Florimonde

For Perfumery, Toilet Waters, Face Powders, Lip Sticks, Creams, and Preparations for the Teeth and Hair.
Claims use since on or about 1927.

Ser. No. 269,622. THE RESINOUS PRODUCTS & CHEMICAL COMPANY, Philadelphia, Pa. Filed July 16, 1928.

BSI

For Synthetic or Chemically-Prepared Resins.
Claims use since Jan. 15, 1927.

Ser. No. 269,747. SIEGELMAN LABORATORIES, INC., Los Angeles, Calif. Filed July 17, 1928.

HOSE-EEN

For Cosmetic Preparation for Use on Human Legs for the Purpose of Concealing Blemishes, Beautifying the Skin, and as Protection Against the Elements.
Claims use since Jan. 1, 1928.

Ser. No. 269,803. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed July 18, 1928.

PRIMOL

For White Oil for Chemical, Medicinal, and Pharmaceutical Purposes.
Claims use since June 14, 1928.

Ser. No. 269,841. ROBERT M. FROEHLICH, doing business as Dr. Robert M. Froehlich, New York, N. Y. Filed July 19, 1928.



No claim is made to the exclusive use of the words "Economy," "Strength," and "Purity" apart from the mark as shown on the drawing. The drawing is lined to indicate yellow.
For Alcohol Massage Lotions, Alcohol Massage Powders, Alcohol Massage Crystals, Alcohol Massage Tablets; Skin, Hand, Face, Body Balms; Liquid, Crystallized, Solid Brilliantines; Cold Creams; Vanishing, Massage, Hand, Bleaching, Facial, Freckle, Skin Creams; Wrinkle Creams, Dandruff Lotions, Dandruff Ointments; Liquid, Powder, Paste Dentifrices; Liquid, Powder, Paste Deodorants; Liquid, Powder, Paste Depilatory Preparations; Medicinal Disinfectants, Insecticides, Theatrical Sprays; Eyebrow Cosmetics—Namely, Pencils, Lotions; Face Powders, Liquids, Compact, and Compact Rouges; Liquid, Powder, Paste, Tablets; Hair-Curling Preparations, Liquid, Powder, Paste, Hairdressing Preparations; Liquid Hair Tonics, Hair Oils, Pomades, Dyes, Hair Ointments, Lip Sticks; Liquid, Powder Manicuring Preparations; Manicuring Preparations in Stick and Cake Form; Perfume Extracts—Namely, Plain Flower Odors and Compounded Bouquets, Liquid and Solid; Liquid, Powder, Paste, Compact Rouges; Wound-Healing Salves; Salves for Human Use for Sprains, Bruises, Lameness, Rheumatism, Frostbites, Chilblains—Namely, Diseases Caused by Exposure, Strains, Swelling, Contusions, Neuralgia, Inflammation of Muscles and Joints, Lumbago, Skin Irritations, and Gout; and Salves to Allay Chapping Skin; Sachets, After-Shaving Lotions, Toilet Waters Having Plain Flower Odors and Compounded Bouquets; Liquid, Powder, Crystalline Water Softeners; and Smelling Salts.
Claims use since Jan. 1, 1925.

Ser. No. 269,864. WALLACE BENJAMIN SMITH, doing business as Mentho Septo Co., Fort Worth, Tex. Filed July 19, 1928.



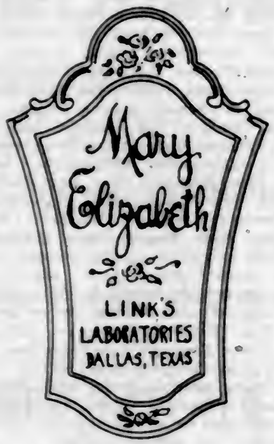
The words "For Every Woman" are disclaimed apart from the mark as shown in the drawing.
For Douche Powder.
Claims use since Apr. 27, 1928.

Ser. No. 270,051. RESEARCH PRODUCTS COMPANY, Los Angeles, Calif. Filed July 23, 1928.

MAYADINE

For Medical Preparation to be Used in the Treatment of Arthritis, Neuritis, and Rheumatic Conditions.
Claims use since May 22, 1928.

Ser. No. 270,085. DR. WILLIAM A. LINK, doing business as Dr. Link Medicine Company, and Link's Laboratories, Dallas, Tex. Filed July 24, 1928.



The words "Dallas, Texas" are disclaimed apart from the mark shown in the drawing.
For Cleansing Cream, Vanishing Cream, Almond Skin Cream, Lemon Skin Cream, Lemon Skin Lotion, Rose Lotion, Hair Tonics, Face Powders, Shampoo, Hair Dress Oil, Head Oil for the Hair, Brilliantine, Lilac After-Shaving Lotion, Talcum Powder, Body Powder, Cold Cream, Wrinkle and Tissue Cream, Face Bleach, Massage Cream, Quince-Seed Skin Lotion, Rouge, Lip Stick, Perfumes, Toilet Water, Bath Salts.
Claims use since July 2, 1928.

Ser. No. 270,354. SENOLA DRUG CO., Chicago, Ill. Filed July 30, 1928.

SEROLE

For Ointments Used in the Treatment of Colds, Neuralgia, Lumbago, Sore Throat, and Rheumatic Pains.
Claims use since January, 1928.

Ser. No. 270,492. JOHN B. HUTCHINS, Houston, Tex. Filed Aug. 2, 1928.



The trade mark is the picture of John B. Hutchins, sr., now deceased.
For Salve for the Treatment of Eczema, Tetter, Ringworm, and Old Sores.
Claims use since June 1, 1906.

Ser. No. 271,476. H. P. CURRIER, doing business as Currier Laboratories, Mendota, Ill. Filed Aug. 24, 1928.

"FEV"

For Medicine for the Treatment of Hay Fever.
Claims use since June 15, 1928.

Ser. No. 271,485. CHARLES B. FRANKLIN, doing business as Franklin Chemical Co., New York, N. Y. Filed Aug. 24, 1928.

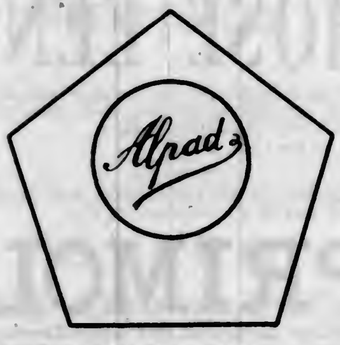
FRANKO

For Liquid and Powder Insecticides.
Claims use since Aug. 17, 1928.

CLASS 11.

Inks and Inking Materials.

Ser. No. 270,779. ALBERT PADBERG, Elberfeld, Germany. Filed Aug. 8, 1928.



For Ink Ribbons and Carbon Paper.
Claims use since 1907.

CLASS 12.

Construction Materials.

Ser. No. 270,065. WILCOX HAYES CO., Portland, Oreg. Filed July 23, 1928.

WILPORT

For Lumber and Lumber Products—Namely, Doors, Sash, Veneer, Flooring Blocks.
Claims use since Apr. 4, 1928.

Ser. No. 270,540. THE FLINTKOTE COMPANY, Boston, Mass. Filed Aug. 3, 1928.

Rexalt

For Asphaltic Material to be Used as a Compound in Built-Up Roofs.
Claims use since on or about July 15, 1928.

Ser. No. 270,541. THE FLINTKOTE COMPANY, Boston, Mass. Filed Aug. 3, 1928.

PARACOTE

For Asphaltic Material to be Used as a Compound in Built-Up Roofs.
Claims use since on or about June 20, 1928.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 253,169. WEST BEND ALUMINUM COMPANY, West Bend, Wis. Filed Aug. 6, 1927.



For Aluminum Pots, Pans, and Kettles for Cooking Coffee, and Tea Pots, Teakettles, Griddles, and Waffle Irons.
Claims use since July 1, 1925.

Ser. No. 261,274. MUELLER CO., Decatur, Ill. Filed Feb. 6, 1928.



The word "Products" is disclaimed apart from the mark as shown. The lining on the drawing indicates the color blue.
For Faucets.
Claims use since May 15, 1927.

Ser. No. 270,837. THE GARLOCK PACKING COMPANY, Palmyra, N. Y. Filed Aug. 10, 1928. Under section 5b of the act of 1905 as amended in 1920.

GARLOCK

For Cord Plugs for Cleaning Condenser Tubes.
Claims use since March, 1925.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 262,422. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Feb. 29, 1928.

VARSOL

For Hydrocarbon Solvents in the Nature of Turpentine Substitutes.
Claims use since Jan. 4, 1928.

Ser. No. 267,870. GILBERT I. SPEAR, Westbrook, Me. Filed June 11, 1928.

CEL-GLO

For Automobile Cleaner and Automobile Polishing Solution.
Claims use since August, 1926.

CLASS 17.

Tobacco Products.

Ser. No. 270,075. DE NOBILI CIGAR COMPANY, New York, N. Y. Filed July 24, 1928.

CONDOR

The lining on the drawing indicates shading only.
For Cigars.
Claims use since May 1, 1928.

Ser. No. 270,076. DE NOBILI CIGAR COMPANY, New York, N. Y. Filed July 24, 1928.



The lining on the drawing indicates the colors green and red.
For Cigars.
Claims use since Mar. 29, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 270,016. CHRYSLER CORPORATION, Detroit, Mich. Filed July 23, 1928.



For Vehicle Hub Caps.
Claims use since July 1, 1928.

Ser. No. 270,386. MOTH AIRCRAFT CORPORATION, New York, N. Y. Filed July 31, 1928.

MOTH

For Airplanes.
Claims use since 1926.

Ser. No. 270,744. E. P. GILKISON & SONS COMPANY, Terre Haute, Ind. Filed Aug. 8, 1928.

GILKIE

For Camping Trailers.
Claims use since May 1, 1926.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 269,904. AARON MASTER, Brooklyn, N. Y. Filed July 20, 1928.

PEPPY PUNCH-IT

For Board Games.
Claims use since Mar. 15, 1928.

Ser. No. 270,252. G. B. LEWIS COMPANY, Watertown, Wis. Filed July 27, 1928.

ARKITOY

For Structural Toys.
Claims use since Jan. 10, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 270,247. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio. Filed July 27, 1928.



The lining shown in the drawing is for the purposes of shading only. No claim is made to the representation of the goods, applicant retaining all of his rights at common law.
For Excavating, Elevating, and Conveying Machinery.
Claims use since Mar. 8, 1928.

Ser. No. 270,558. RAILWAY MOTORS CORPORATION, De Pere, Wis. Filed Aug. 3, 1928.

SPI-ROLL

No claim is made for the word "Roll" apart from the remainder of the mark.
For Roller Bearings and Parts Thereof.
Claims use since July 15, 1928.

Ser. No. 271,147. REY SAFETY RAZOR CORPORATION, New York, N. Y. Filed Aug. 16, 1928.

REY

For Razor Blades.
Claims use since Aug. 1, 1928.

CLASS 25.

Locks and Safes.

Ser. No. 230,892. CHARLES L. GMEINDER, Jr., Macon, Ga. Filed Apr. 19, 1926.

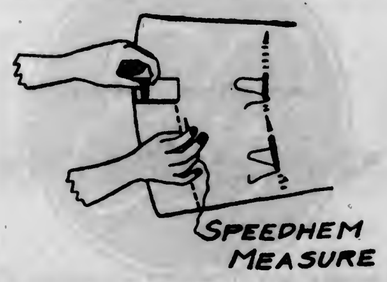
THE "STONE MOUNTAIN" BANK

No claim is made to the word "Bank" apart from the mark shown.
For Portable Home Savings Bank.
Claims use since Jan. 1, 1926.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 269,621. ROSS MORRIS, doing business as Morris Company, Pittsfield, Mass. Filed July 16, 1928.



Applicant disclaims the representation of the device or gauge shown on the drawing of the mark and the word "Measure."
For Hem Gauge for Measuring the Hem of Garments.
Claims use since Apr. 2, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 269,563. RANDAL YOUNG, doing business as Smith-Young Company, Cincinnati, Ohio. Filed July 13, 1928.

KLEAN-PAK

For Paint and Varnish Brushes.
Claims use since May 4, 1928.

Ser. No. 270,132. J. WILL LYSONS, New York, N. Y. Filed July 25, 1928.

"Giffy" SHAVER

No claim is made to the word "Shaver" apart from the mark shown in the drawing.
For a Shaving-Brush Device for Applying Shaving Creams and Similar Preparations.
Claims use since July 1, 1928.

CLASS 31.

Filters and Refrigerators.

Ser. No. 262,152. CITOGEL GESELLSCHAFT FÜR CHEMISCHE UND TECHNISCHE ERZEUGNISSE M. B. H., Hamburg, Germany. Filed Feb. 24, 1928.

Citogel

For Refrigerators, Beverage Coolers, and Ice-Cream Freezers, All of Household Sizes.
Claims use since October, 1927.

CLASS 32.

Furniture and Upholstery.

Ser. No. 230,789. MICHAEL GOLDBERG, doing business as Factors-to-You Furniture Co., Philadelphia, Pa. Filed Apr. 27, 1926.

FACTORS TO YOU

For China Closets, Buffets, Serving Tables, Extension Tables, Side Chairs, Armchairs, Beds, Vanities, Dressers, Semivanities, Chifforobes, Chifforettes, Chests of Drawers, Household Chairs, Household Benches, Rockers, Night Tables, Clothes Trees, Bed Springs, Mattresses, Pillows, Metal Beds, Cribs, Cots, Sliding Couches, Day Beds, Strollers, Windsor Chairs, Formal Chairs, Boudoir Chairs, Cogswell Chairs, Sewing Cabinets, Console Tables, Occasional Tables, End Tables, Nest of Tables, Tilt Tables, Davenport Tables, Gate-Leg Tables, Telephone Sets, Smoking Stands, Cedar Chests, Desks, Bookcases, Children's Reed Rockers, Hatracks, High Chairs, Children's Reed Suites, Tabourettes, Radiocabinets Exclusive of Sets, Radiotables, Daven-

port Suites 3 pc. (Leather), Davenport Suites 3 pc. (Velour), Davenport Suites 3 pc. (Mohair), 3 pc. Living-Room Suites (Velour), 3 pc. Living-Room Suites (Tapestry), 3 pc. Living-Room Suites (Mohair), Couches, Tea Wagons, Mirrors, Welsh Cupboards, Kitchen Cabinets, 3 pc. Reed Suites, Reed Tables, Reed Ferneries, Porch Rockers.
Claims use since Mar. 10, 1926.

Ser. No. 270,828. BUCHMAN MANUFACTURING COMPANY, Carnegie, Pa. Filed Aug. 10, 1928.

AIRLINE

For Pillows and Cushions.
Claims use since Apr. 10, 1923.

Ser. No. 271,151. SUPERIOR FELT & BEDDING CO., Chicago, Ill. Filed Aug. 16, 1928.

KNIGHT-O-REST

For Mattresses.
Claims use since July 20, 1928.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 266,250. JAPANESE FAN COMPANY, New York, N. Y. Filed May 11, 1928.



For Decorative Novelties Consisting of Candlesticks and Lamp Bases.
Claims use since Nov. 1, 1927.

Ser. No. 269,490. THE STAMFORD FOUNDRY COMPANY, Stamford, Conn. Filed July 12, 1928.

SHIPMATE-KID

For Pot, Pan and Kettle Holders for Marine Galley Ranges to Supplement Rolling Bars.
Claims use since June 30, 1928.

Ser. No. 270,641. THE MEYER FURNACE COMPANY, Peoria, Ill. Filed Aug. 6, 1928.

WEIR

For Furnaces of the Gas, Oil, and Coal Burning Types.
Claims use since about June 7, 1894.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 270,766. HENRY B. EGAN, Muskogee, Okla. Filed Aug. 8, 1928.



The trade-mark is a color mark shown on the edge of the goods in contrasting colors—red, white, and blue—produced arbitrarily in the manufacture of the goods by permanently uniting three laminated layers of rubber in the order red, blue, and white, with the blue laminations in the center, as indicated in the color lining shown in the drawing.
For Tire-Tube Patches.
Claims use since Jan. 1, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 271,103. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed Aug. 16, 1928.



No exclusive rights to the words and numerals "Finest Satin Tissue Suitable for Recessed Fixtures 1500 Sheets 4⅛x5½." "Albany, N. Y., U. S. A." "Reg. U. S. Pat. Off." per se is claimed.
For Toilet Paper.
Claims use since June 28, 1928.

Ser. No. 271,104. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed Aug. 16, 1928.



No exclusive rights to the words and numerals "1000 Sheets 4½x5," "Albany, N. Y., U. S. A.," "Reg. U. S. Pat. Off." per se is claimed.
For Toilet Paper.
Claims use since July 23, 1928.

Ser. No. 271,105. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed Aug. 16, 1928.



No exclusive rights to the words and numerals "650 Sheets 4½x5," "Albany, N. Y., U. S. A.," "Reg. U. S. Pat. Off." per se is claimed.
For Toilet Paper.
Claims use since June 26, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 268,532. CORBETT & NORTH, New York, N. Y. Filed June 23, 1928.

FASHION NEWS

For Periodic Publication.
Claims use since June 15, 1928.

Ser. No. 269,179. JOHN ESTEN BOLLING, doing business as Esten Bolling, East Orange, N. J. Filed July 6, 1928.



For Printed Books Sometimes Called Pamphlets, Booklets, Circulars, Leaflets, Folders, Sheets, Issued at Regular and Irregular Intervals, and Other Printed Advertising Matter Sold to the Trade.
Claims use since January, 1927.

Ser. No. 269,426. RAIL STEEL BAR ASSOCIATION, Chicago, Ill. Filed July 11, 1928.



No claim is made to the words "Rail Steel Real Strength" apart from the mark shown.
For Educational Bulletins and Literature.
Claims use since June 30, 1922.

CLASS 39.

Clothing.

Ser. No. 239,529. LESCHIN MILLINERY CO., INC., New York, N. Y. Filed Nov. 1, 1926.



For Women's Hats.
Claims use since Feb. 1, 1926.

Ser. No. 239,530. LESCHIN MILLINERY CO., INC., New York, N. Y. Filed Nov. 1, 1926.



For Women's Hats.
Claims use since Feb. 1, 1926.

Ser. No. 243,756. SAMUEL GOLDBERG, Cincinnati, Ohio. Filed Feb. 3, 1927.

Klad-Well

For Ladies' and Misses' Cloaks, Capes, Suits, Coats, and Dresses, the Latter Being Made of Materials Other Than Knitted Materials.
Claims use since May, 1919.

Ser. No. 258,365. THE TUXEDO HAT BODY CORPORATION, New York, N. Y. Filed Dec. 2, 1927.

Tux-Chamois

No claim is made to the word "Chamois" apart from the mark shown in the drawing.
For Felt Bodies for Ladies' Hats.
Claims use since about Nov. 21, 1927.

Ser. No. 259,817. NEW HAVEN SILK HOSIERY CO., New Haven, Ind. Filed Jan. 7, 1928.



For Ladies' Hosiery.
Claims use since Dec. 6, 1927.

Ser. No. 261,746. EVERLASTIK KNITTING MILLS, INC., Philadelphia, Pa. Filed Feb. 16, 1928.

AQUA

For Men's, Women's, Boys', and Girls' Sweaters and Bathing Suits.
Claims use since June 1, 1927.

Ser. No. 268,017. AMERICAN LADY CORSET CO., Detroit, Mich. Filed June 14, 1928.

Butterfly

Applicant owns registration No. 175,022.
For Combinations of Brassières and Girdles; Brassières and Corsets; Brassières and Step-Ins; Brassières and Bloomers; Brassières and Petticoats; Combinations of Brassières, Girdles, and Bloomers; Brassières, Corsets, and Petticoats; Brassières, Girdles, and Panties; Brassières, Girdles, and Drawers; Brassières, Girdles, and Step-Ins; Garter Belts and Step-Ins; Garter Belts and Panties, Garter Belts and Bloomers.
Claims use since Jan. 15, 1922.

Ser. No. 269,233. MAX GELLES, doing business as Gelles Neckwear Co., Boston, Mass. Filed July 7, 1928.

Congress

For Men's Neckties of All Shapes and Forms, Including Bow-Ties and Band Bows and Mufflers.
Claims use since Jan. 1, 1928.

Ser. No. 269,311. THE J. K. ORR SHOE COMPANY, Atlanta, Ga. Filed July 9, 1928.



The exclusive right to the representation of the shoe, except in the relation shown, is disclaimed. Exclusive use of "Protective Arch" is hereby disclaimed except in the setting illustrated.
For Leather, Fabric, and Combined Fabric and Leather Shoes.
Claims use since about Nov. 1, 1927.

Ser. No. 269,349. JOHN B. HENRY, New Orleans, La. Filed July 10, 1928.

Enreh Footwear

Applicant disclaims the right to the exclusive use of the word "Footwear" apart from the mark as a whole.
For Men's, Women's, and Children's Boots, Slippers, and Shoes Made of Leather, Silk, Satin, Wool, or Felt.
Claims use since June 4, 1928.

Ser. No. 269,528. JAMES T. JOHNSON, JR., Scranton, Pa. Filed July 13, 1928.

CertoSafe

For Sleeping Garments for Children—to wit, One-Piece Suits Provided with Feet.
Claims use since July 6, 1928.

Ser. No. 269,653. GENERAL FOOTWEAR CORPORATION, New York, N. Y. Filed July 16, 1928.

Vanity Fair

For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since Aug. 12, 1927.

Ser. No. 269,869. J. TARTIKOFF & SONS, New York, N. Y. Filed July 19, 1928.

Zip-erAll

For Children's Outer Suits.
Claims use since June 25, 1928.

Ser. No. 269,984. BEN ROTHBLUM, New York, N. Y. Filed July 21, 1928.

BREVI-MODE

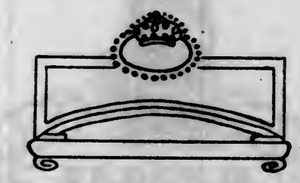
No claim is made to the word "Mode" apart from the mark shown.
For Ladies', Misses', and Women's Dresses and Coats.
Claims use since July 10, 1928.

Ser. No. 270,363. AERO ROBE CO., Philadelphia, Pa. Filed July 31, 1928.

AERO ROBE

The word "Robe" is disclaimed apart from the mark shown on the drawing.
For Cotton Blanket Bath Robes; Woolen, Flannel, and Rayon Bath Robes.
Claims use since Sept. 21, 1927.

Ser. No. 271,024. EDWIN CLAPP & SON, INC., East Weymouth, Mass. Filed Aug. 15, 1928.



For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since Feb. 8, 1928.

Ser. No. 271,300. FRIEDMAN & FRIEDMAN, Brooklyn, N. Y. Filed Aug. 20, 1928.

NightPal

For Men's, Women's, and Children's Sleeping Garments—Namely, Gowns, Pajamas, and Nightshirts Made of Flannelette, Muslin, and Crepe Materials.
Claims use since Jan. 3, 1922.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 264,810. THE C. E. CONOVER COMPANY, New York, N. Y. Filed Apr. 14, 1928.

Sunrise

For Dress Shields.
Claims use since Mar. 2, 1928.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 270,525. UNITED STATES KNITTING CO. INC., Central Falls, R. I. Filed Aug. 2, 1928.

WEIR-MOOR

For Wool Piece Goods.
Claims use since June 1, 1928.

Ser. No. 270,810. TOOTLE-CAMPBELL DRY GOODS COMPANY, St. Joseph, Mo. Filed Aug. 9, 1928.



No claim is made to "St. Joseph Mo." or the word "Brand" apart from the mark as shown.
For Cotton Piece Goods.
Claims use since June 1, 1908.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 267,210. JACOB S. POLEFSKY, doing business as Continental Pure Product Company, New York, N. Y. Filed May 29, 1928.

FRUIT-O

No claim is made to the word "Fruit" apart from the mark shown in the drawing.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and a Concentrate in a Powdered and Liquid Form for Making the Same.
Claims use since Nov. 1, 1926.

Ser. No. 270,604. PREMIER BEVERAGE COMPANY, Chicago, Ill. Filed Aug. 4, 1928.

Osage

For Ginger Ale.
Claims use since Feb. 15, 1926.

Ser. No. 271,362. SAFEWAY STORES, INC., Los Angeles, Calif. Filed Aug. 21, 1928.

PALE FACE

For Ginger Ale.
Claims use since July 26, 1928.

CLASS 46.

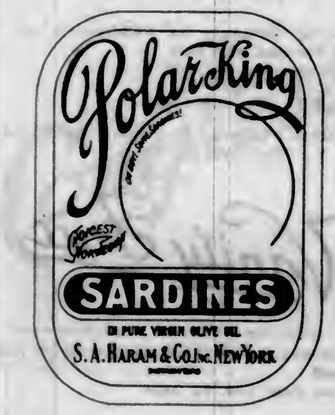
Foods and Ingredients of Foods.

Ser. No. 204,620. J. T. MCMILLAN CO., St. Paul, Minn. Filed Oct. 30, 1924.



The lining on the drawing represents a Scotch plaid.
For Ham, Boiled Ham, Skinned Ham, and Bacon.
Claims use since about September, 1919.

Ser. No. 205,333. S. A. HARAM & CO. INC., New York, N. Y. Filed Nov. 15, 1924.



All reading matter on the drawing except the words "Polar King" is disclaimed, also the outline of the container of the goods is disclaimed.
For Sardines Canned in Olive Oil.
Claims use since Sept. 30, 1924.

Ser. No. 210,316. PITTSBURGH PROVISION AND PACKING COMPANY, Pittsburgh, Pa. Filed Feb. 28, 1925.

CRESCENT

For Boneless Boiled Ham, Sugar-Cured Calas, Sugar-Cured Ham, Bacon, Bacon Bellies, Corned Beef, Pure Pork Sausage, Other Sausages, and Sausage Meats.
Claims use since about 1889.

Ser. No. 252,981. EDGAR D. SNYDER, doing business as Snyder's Dairy, Hazleton and Bloomsburg, Pa. Filed Aug. 3, 1927.



Applicant disclaims the representation of a bottle for milk apart from the mark shown for the following commodities listed in the statement—namely, milk, cream, chocolate milk, and buttermilk.
For Milk, Cream, Chocolate Milk, Buttermilk, Cottage Cheese, Butter, and Eggs.
Claims use since Aug. 1, 1917.

Ser. No. 253,693. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed Aug. 19, 1927.

America's Favorite

For Candy.
Claims use since about July, 1926.

Ser. No. 254,127. FRED JOHN DAY, doing business as Precooling Car Service Co., Los Angeles, Calif. Filed Aug. 30, 1927.



The drawing is lined to indicate the color red. The descriptive word "Precooled" is disclaimed apart from the mark as shown.
For Fresh Vegetables, Fresh Melons, Fresh Berries, Fresh Cranberries.
Claims use since May 9, 1927.

Ser. No. 254,133. GOLD BANNER ASSOCIATION, Redlands, Calif. Filed Aug. 30, 1927.

HALF MOON

For Fresh Citrus Fruits.
Claims use since 1909.

Ser. No. 256,456. DOUGHERTY GRAPE GROWERS ASSOCIATION, Acampo and Dougherty, Calif. Filed Oct. 22, 1927.

BROADWAY

For Fresh Grapes.
Claims use since July 1, 1927.

Ser. No. 260,328. FRANK H. FROMM, doing business as F. H. Fromm & Company, Philadelphia, Pa. Filed Jan. 19, 1928.



For Canned Fish.
Claims use since 1907.

Ser. No. 262,719. LE-MUL MFG. CO., St. Paul, Minn. Filed Mar. 7, 1928.

Rejuvenated POP CORN

No claim is made to the exclusive use of the words "Pop Corn" apart from the mark as shown.
For Pop Corn in the Natural State.
Claims use since October, 1926.

Ser. No. 262,764. OLD DUTCH MILLS, INC., New York, N. Y. Filed Mar. 7, 1928.

BOZAN

For Coffee, Tea, and Cocoa.
Claims use since about Mar. 1, 1926.

Ser. No. 264,496. MUTUAL STORES, INC., Oakland, Calif. Filed Apr. 7, 1928.

CRAGMONT

For Pure Sage Honey, Relish Spread Consisting of Chopped Pickles and Mayonnaise, Canned Fish, Evaporated Milk, Dried Peaches, Jelly, Loganberry Preserves, Pure Apple-Cider Vinegar, Pop Corn in Its Natural State, Table Syrup, Chicken Tamale, Plain Pickles, Mayonnaise, Pepper, Lemon Extract for Flavoring Foods, Vegetable Shortening; Oats, a Breakfast Cereal; Mushroom Sauce.
Claims use since Jan. 5, 1928.

Ser. No. 264,576. GARONI MFG. CO., Chicago, Ill. Filed Apr. 9, 1928.

Garoni

For Garlic Juice, Garlic Flavor, and Onion Flavor.
Claims use since Jan. 1, 1923.

Ser. No. 266,453. ATMORE & SON, INC., Philadelphia, Pa. Filed May 16, 1928.



For Fruit Jellies, Jams, and Preserves; Vinegar, Mustard, Pickles, Gherkins, Mango Relish, Piccalilli Relish, Vegetable Relish, Horse-Radish, and Mincemeat.
Claims use since September, 1925.

Ser. No. 267,431. LUCE PACKING COMPANY, Lucedale, Miss. Filed June 4, 1928.

REALPAK

For Canned Fruits and Vegetables.
Claims use since May 22, 1928.

Ser. No. 267,821. THE PAGE MILLING CO., Luray, Va. Filed June 7, 1928.

THE PAGE MILLING COMPANY

For Wheat Flour, Self-Rising Flour, Corn Meal, and Poultry Feeds.
Claims use since March, 1925.

Ser. No. 267,926. R. D. BODLE CO., also doing business as Valley Fruit Canning Co., Seattle, Wash. Filed June 13, 1928.

HEEP FULL

For Fresh, Canned, and Frozen Fruits and Fresh Blackberries.
Claims use since Apr. 25, 1928.

Ser. No. 267,927. R. D. BODLE CO., also doing business as Valley Fruit Canning Co., Seattle, Wash. Filed June 13, 1928.

BOBERRY

For Fresh, Canned, and Frozen Fruits and Fresh Blackberries.
Claims use since Apr. 25, 1928.

Ser. No. 268,840. BENSON-LE FORT CO., Moorhead, Minn. Filed June 29, 1928.

TOM CAT



The lining in the drawing indicates the color red.
For Fresh Potatoes.
Claims use since Jan. 1, 1928.

Ser. No. 269,057. SPRAGUE, WARNER & COMPANY, Chicago, Ill. Filed July 3, 1928.

ROLY POLY

For Canned Fruit.
Claims use since Oct. 10, 1898.

Ser. No. 269,741. NORTH AMERICAN MERCANTILE COMPANY, San Francisco, Calif. Filed July 17, 1928.

Namco SKEYAKY



For Canned Beef Prepared with Shoyu Sauce.
Claims use since May 1, 1927.

Ser. No. 269,742. PACIFIC TRADING CO., INC., San Francisco, Calif. Filed July 17, 1928.

"Suki-yaki"

For Canned Vegetables.
Claims use since May, 1926.

Ser. No. 269,806. TEA GARDEN PRODUCTS CO., San Francisco, Calif. Filed July 18, 1928.

POPPY

For Table Syrup.
Claims use since October, 1906.

Ser. No. 269,808. TEA GARDEN PRODUCTS CO., San Francisco, Calif. Filed July 18, 1928.

PELICAN

For Molasses.
Claims use since Mar. 1, 1894.

Ser. No. 269,844. EUGENE HECKMANN, doing business as E. Heckmann & Sons, Buffalo, N. Y.. Filed July 19, 1928.

NU WAY

For Malt Syrup.
Claims use since Nov. 1, 1926.

Ser. No. 269,900. JOANNES BROTHERS COMPANY, Green Bay, Wis. Filed July 20, 1928.

Jomalt

For Malt Syrup.
Claims use since Apr. 2, 1928.

Ser. No. 269,947. HARRY GEORGE CUBBISON, doing business as Cubbison Cracker Co., Los Angeles, Calif. Filed July 21, 1928.



The word "Cubbison's" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Toast.
Claims use since Jan. 1, 1927.

Ser. No. 270,086. MANGELS-HEROLD CO., INC., Baltimore, Md. Filed July 24, 1928.



KING

For Compound of Corn Syrup, Refiner's Syrup, and Granulated Sugar, and a Compound of Corn Syrup and West India Molasses.
Claims use since Nov. 1, 1890.

Ser. No. 270,511. WILLIAM SCHUMANN, West New York, N. J. Filed Aug. 2, 1928.

Theczar

For Package Nuts.
Claims use since July 19, 1928.

Ser. No. 270,617. VAL BLATZ BREWING COMPANY, Milwaukee, Wis. Filed Aug. 4, 1928.



The drawing is lined to indicate shading.
For Malt Syrup.
Claims use since June 13, 1928.

Ser. No. 270,714. NOBUZO NOJIRI, doing business as Nojiri Fruit Company, Sacramento, Calif. Filed Aug. 7, 1928.



For Fresh Vegetables—Namely, Lettuce, Tomatoes, Carrots, Turnips, Beets, Cauliflower, Spinach, Asparagus; Fresh Fruits—Namely, Peaches, Plums, Pears, Apples, Cherries, Strawberries, Blackberries, Raspberries, Grapes.
Claims use since Apr. 14, 1928.

Ser. No. 270,885. JULIUS HEILWEIL, doing business as The Bronx Home Products Company, New York, N. Y. Filed Aug. 11, 1928.



The words "America's Best" are disclaimed apart from the mark as shown in the drawing.
For Malt Syrup.
Claims use since Nov. 1, 1920.

Ser. No. 271,048. HIGH-TEST MALT EXTRACT CO., Chicago, Ill. Filed Aug. 15, 1928.

HOP-TO-IT

For Malt Syrup.
Claims use since June 19, 1928.

Ser. No. 271,139. MILWAUKEE DELICATESSEN, INC., Lincoln, Nebr. Filed Aug. 16, 1928.



For Malt Extract.
Claims use since Aug. 10, 1928.

Ser. No. 271,304. INDEPENDENT GROWERS PACKING COMPANY, San Jose, Calif. Filed Aug. 20, 1928.

SUNI-BEL

For Dried Prunes.
Claims use since May 4, 1928.

Ser. No. 271,325. WILLIAM D. TRUSAS, Redding, Calif. Filed Aug. 20, 1928.

NUVO

For Confection Comprising a Candy Food Bar.
Claims use since Aug. 2, 1928.

Ser. No. 271,330. ARIZONA CITRUS GROWERS, Phoenix, Ariz. Filed Aug. 21, 1928.

TONTO

For Fresh Citrus Fruits.
Claims use since 1910.

Ser. No. 271,331. ARIZONA CITRUS GROWERS, Phoenix, Ariz. Filed Aug. 21, 1928.

Salt River

For Fresh Citrus Fruits.
Claims use since 1910.

Ser. No. 271,337. CALIFORNIA CO-OPERATIVE PRODUCERS, San Francisco, Calif. Filed Aug. 21, 1928.

BRIDLE PATH

For Canned Fruits, Canned Vegetables, and Canned Fish, Fresh Deciduous and Citrus Fruits and Fresh Grapes, and Dried Fruits.
Claims use since Aug. 1, 1928.

Ser. No. 271,385. THE HARRIS & FILLER CO., Frederick, Md. Filed Aug. 22, 1928.

COUNTRY SIDE

For Canned Vegetables.
Claims use since July 25, 1928.

Ser. No. 271,441. C. D. KENNY CO., Baltimore, Md. Filed Aug. 23, 1928.

LORD BALTIMORE

For Coffee.
Claims use since July 25, 1928.

Ser. No. 271,475. CORKRAN, HILL & COMPANY, INCORPORATED, Baltimore, Md. Filed Aug. 24, 1928.

BUSY BEE



For Ham, Bacon, and Lard.
Claims use since Feb. 1, 1899, to ham and bacon, and since October, 1906, to lard.

Ser. No. 271,534. CARPINTERIA MUTUAL CITRUS ASSOCIATION, Carpinteria, Calif. Filed Aug. 25, 1928.

Sea Breeze

For Fresh Citrus Fruits.
Claims use since Aug. 1, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 269,522. GENERAL COLOR PRODUCTS CO., Chicago, Ill. Filed July 13, 1928.



The colors orange and black are disclaimed as essential parts of the mark.
For Sign Plates to be Used with or without Illumination as Made on Glass or Metal or Other Material Capable of Receiving a Ceramic Enamel.
Claims use since August, 1926.

Ser. No. 269,692. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed July 16, 1928.

SUPER HATCHER

The word "Hatcher" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Incubators.
Claims use since January, 1918.

Ser. No. 269,886. SAMUEL COHEN, Brooklyn, N. Y. Filed July 20, 1928.

DE-LITE SIGNS DE-LITE

No claim is made to the word "Signs" apart from the mark shown on the drawing.
For Daylight Advertising Signs in Which the Advertising is Reproduced by Daylight Reflection Thru Master Plates and a Mirror.
Claims use since May 18, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 2, 1928.

247,538. SASH VENTILATORS. LINZ VENTILATOR COMPANY, Pittsburgh, Pa.
Filed April 9, 1928. Serial No. 264,592. PUBLISHED JULY 10, 1928. Class 34.

247,539. MEN'S, LADIES', AND CHILDREN'S LEATHER GLOVES. WALTER S. LAHEY, New York, N. Y.
Filed April 9, 1928. Serial No. 264,587. PUBLISHED JULY 3, 1928. Class 39.

247,540. INSECTICIDES USED AS GARDEN AND ORCHARD SPRAYS. BALFOUR, GUTHRIE & CO., San Francisco, Calif.
Filed April 9, 1928. Serial No. 264,552. PUBLISHED JULY 10, 1928. Class 6.

247,541. GARTERS, ARM BANDS, AND SUSPENDERS. GEM-DANDY GARTER CO., Madison, N. C.
Filed April 7, 1928. Serial No. 264,515. PUBLISHED JULY 3, 1928. Class 39.

247,542. MEDICINAL PREPARATIONS AND PRODUCTS. S. PFEIFFER MFG. CO., St. Louis, Mo.
Filed April 9, 1928. Serial No. 264,602. PUBLISHED JULY 10, 1928. Class 6.

247,543. TOOL SETS CONSISTING AT PRESENT OF NAIL SET AND PUNCH AND CHISEL INSTRUMENTS BANDED TOGETHER. THE VLCHEK TOOL COMPANY, Cleveland, Ohio.
Filed April 9, 1928. Serial No. 264,619. PUBLISHED JULY 24, 1928. Class 23.

247,544. ELECTRICALLY-DRIVEN AIR-CIRCULATING UNITS FOR WARM-AIR FURNACES. THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio.
Filed April 9, 1928. Serial No. 264,626. PUBLISHED JULY 17, 1928. Class 34.

247,545. CERTAIN LISTED ATHLETIC AND SPORTING GOODS ARTICLES. A. J. REACH COMPANY, Philadelphia, Pa.
Filed April 10, 1928. Serial No. 264,655. PUBLISHED JULY 17, 1928. Class 22.

247,546. CERTAIN NAMED ATHLETIC WEARING APPAREL. A. J. REACH COMPANY, Philadelphia, Pa.
Filed April 10, 1928. Serial No. 264,656. PUBLISHED JULY 3, 1928. Class 39.

247,547. CIGARS. WIGGINS & BEAN, Milford Square, Pa.
Filed April 10, 1928. Serial No. 264,666. PUBLISHED JULY 24, 1928. Class 17.

247,548. INCENSE. MOHAMMED I. KITCHLEW, Chicago, Ill.
Filed April 11, 1928. Serial No. 264,689. PUBLISHED JULY 17, 1928. Class 6.

247,549. BELLADONNA PLASTERS, HEALING POWDER, ETC. SCOTT & GILBERT CO., San Francisco, Calif.
Filed April 11, 1928. Serial No. 264,702. PUBLISHED JULY 10, 1928. Class 6.

247,550. MEN'S HATS. L. SHAFARMAN INC., New York, N. Y.
Filed April 11, 1928. Serial No. 264,704. PUBLISHED JUNE 26, 1928. Class 39.

247,551. LIP ROUGE AND LIP STICKS. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed April 12, 1928. Serial No. 264,715. PUBLISHED JULY 10, 1928. Class 6.

247,552. EAU DE COLOGNE. JOHANN MARIA FARINA, INC., New York, N. Y.
Filed April 12, 1928. Serial No. 264,723. PUBLISHED JULY 10, 1928. Class 6.

247,553. SKIN-SALVE PREPARATIONS INCLUDING FACIAL CREAMS. BEAUTY RESEARCH LABORATORIES, INC., Chicago, Ill.
Filed April 13, 1928. Serial No. 264,748. PUBLISHED JULY 17, 1928. Class 6.

247,554. GLASS BALLS FOR GRAINING AND POLISHING PLATES AND THE LIKE. THE AKRO AGATE COMPANY, Clarksburg, W. Va.
Filed April 14, 1928. Serial No. 264,797. PUBLISHED JULY 17, 1928. Class 4.

247,555. DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed April 14, 1928. Serial No. 264,825. PUBLISHED JULY 17, 1928. Class 40.

247,556. PERFUMES, TOILET WATERS, TALCUM, FACE POWDER, BATH DUSTING POWDER, AND SACHET. THE SCHETTLER DRUG COMPANY, Detroit, Mich.
Filed April 14, 1928. Serial No. 264,847. PUBLISHED JULY 10, 1928. Class 6.

247,557. LADIES' GARTERS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 16, 1928. Serial No. 264,911. PUBLISHED JULY 3, 1928. Class 39.

247,558. INKS AND INK POWDERS FOR WRITING, DRAWING, COPYING, PRINTING, DUPLICATING, LITHOGRAPHING, STAMPING, AND STENCILING. GÜNTHER WAGNER, Hanover, Germany.
Filed March 21, 1928. Serial No. 263,571. PUBLISHED JULY 17, 1928. Class 11.

247,559. A DEPARTMENT OR SECTION OF A MAGAZINE. THE JACOBSEN PUBLISHING COMPANY, Chicago, Ill.
Filed May 21, 1928. Serial No. 266,734. PUBLISHED JULY 17, 1928. Class 38.

247,560. WEEKLY RADIO PROGRAM. BANKERS LIFE COMPANY, Des Moines, Iowa.
Filed May 21, 1928. Serial No. 266,705. PUBLISHED JULY 17, 1928. Class 38.

247,561. MEDICINAL PREPARATION FOR THE TREATMENT OF RHEUMATISM, BLOOD POISON, AND ITCHES. AUGUST MUSCARELLO, Chicago, Ill.
Filed May 19, 1928. Serial No. 266,679. PUBLISHED JULY 17, 1928. Class 6.

247,562. TABLETS USED IN THE ALLEVIATION OF MENSTRUAL CRAMPS. CARR CHEMICAL COMPANY, Coral Gables, Fla.
Filed May 19, 1928. Serial No. 266,646. PUBLISHED JULY 17, 1928. Class 6.

247,563. PUBLICATION ISSUED PERIODICALLY. BURROUGHS ADDING MACHINE COMPANY, Detroit, Mich.
Filed May 19, 1928. Serial No. 266,645. PUBLISHED JULY 17, 1928. Class 38.

247,564. ROUNDWORM CAPSULES AND TABLETS. THE J. R. WATKINS COMPANY, Winona, Minn.
Filed May 18, 1928. Serial No. 266,632. PUBLISHED JULY 17, 1928. Class 6.

247,565. COPPER-TUB ELECTRIC CLOTHES-WASHING MACHINE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed May 18, 1928. Serial No. 266,626. PUBLISHED JULY 24, 1928. Class 24.

247,566. LAXATIVE MEDICINES. HALLIE L. SAMPLE, Muncie, Ind.
Filed May 18, 1928. Serial No. 266,624. PUBLISHED JULY 17, 1928. Class 6.

247,567. A PREPARATION FOR PERMANENT HAIR WAVING. PEARL MCINTOSH, Topeka, Kans.
Filed May 18, 1928. Serial No. 266,603. PUBLISHED JULY 17, 1928. Class 6.

247,568. SCOURING POWDER. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed May 18, 1928. Serial No. 266,622. PUBLISHED JULY 10, 1928. Class 4.

247,569. HAIR APPLICATION AND MANGE MEDICINE. H. CLAY GLOVER CO., INC., New York, N. Y.
Filed May 18, 1928. Serial No. 266,590. PUBLISHED JULY 17, 1928. Class 6.

247,570. STUFFING AGENT USED IN THE MANUFACTURE OF LEATHER OF ALL KINDS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Leverkusen, near Cologne-on-the-Rhine, Germany.
Filed May 18, 1928. Serial No. 266,588. PUBLISHED JULY 17, 1928. Class 6.

247,571. PERFUME. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio.
Filed May 18, 1928. Serial No. 266,573. PUBLISHED JULY 17, 1928. Class 6.

247,572. HORSE-RADISH. JOHN H. TURNER, Stockton, Calif.
Filed May 17, 1928. Serial No. 266,565. PUBLISHED JULY 17, 1928. Class 46.

247,573. APPARATUS FOR AUTOMATICALLY AND UNIFORMLY ADDING PREDETERMINED PERCENTAGES OF MOISTURE TO TEXTILE FIBRES AND OTHER RAW MATERIALS REQUIRING MOISTENING. HYGROLIT INCORPORATED, Kearny, N. J.
Filed May 17, 1928. Serial No. 266,541. PUBLISHED JULY 24, 1928. Class 23.

247,574. DYES. FOOD MATERIALS CORPORATION, Chicago, Ill.
Filed May 17, 1928. Serial No. 266,521. PUBLISHED JULY 17, 1928. Class 6.

247,575. CANNED TUNA FISH. NAOSABURO TATSUKAWA, doing business as Ono Trading Co., San Francisco, Calif.
Filed May 16, 1928. Serial No. 266,499. PUBLISHED JULY 24, 1928. Class 46.

247,576. SYNTHETIC OR CHEMICALLY-PREPARED RESINS. THE RESINOUS PRODUCTS AND CHEMICAL COMPANY, Philadelphia, Pa.
Filed May 16, 1928. Serial No. 266,483. PUBLISHED JULY 10, 1928. Class 6.

247,577. LAXATIVES. NATIONAL MAGNESIA CO. INC., Brooklyn, N. Y.
Filed May 16, 1928. Serial No. 266,473. PUBLISHED JULY 10, 1928. Class 6.

247,578. LAXATIVES. NATIONAL MAGNESIA CO. INC., Brooklyn, N. Y.
Filed May 16, 1928. Serial No. 266,472. PUBLISHED JULY 17, 1928. Class 6.

247,579. BRAIDED AND TWISTED CORDS AND TWINES. SAMSON CORDAGE WORKS, Boston, Mass.
Filed May 7, 1928. Serial No. 266,048. PUBLISHED JULY 17, 1928. Class 7.

247,580. COTTONSEED SALAD OIL. CALIFORNIA BLEACHING WATER CO., San Francisco, Calif.
Filed May 7, 1928. Serial No. 266,015. PUBLISHED JULY 17, 1928. Class 40.

247,581. LINOLEUM, CORK CARPET, FELT-BASE FLOOR COVERINGS BOTH PIECE GOODS AND RUGS. ARMSTRONG CORK COMPANY, Pittsburgh, Pa.
Filed May 7, 1928. Serial No. 266,012. PUBLISHED JULY 24, 1928. Class 20.

247,582. ARTICLES MADE OF PAPER WITH A GLAZED PROCESS FINISH, PLATES, CANDY BOXES, BOUDOIR BOXES, FLOWERPOTS, TRAYS, BOUQUET HOLDERS, BOWLS, SALT AND PEPPER SHAKERS, BASKETS, AND VASES. LEON C. LAUB, New York, N. Y.
Filed May 5, 1928. Serial No. 265,971. PUBLISHED JULY 24, 1928. Class 2.

247,583. MEDICATED CHEWING GUM FOR CORRECTIVE MOUTH ACIDITY, DYSPEPSIA, NAUSEA, HEARTBURN, AND INDIGESTION; TOOTH PASTE, TOOTH POWDER, MOUTH WASH, AND TABLETS FOR ACID STOMACH, BAD BREATH, FLATULENCE, ACID MOUTH, NAUSEA, CAR SICKNESS, SEASICKNESS, LAXATIVE, DYSPEPSIA, BILIOUSNESS, AND HEARTBURN. GOODRICH-ESHBAUGH CHEMICAL LABORATORIES, INC., Ossining and New York, N. Y.
Filed May 4, 1928. Serial No. 265,900. PUBLISHED JULY 10, 1928. Class 6.

247,584. CHILI SAUCE, PICKLE RELISH, PICKLES, VINEGAR, CATSUP. L. C. FORMAN & SONS, INC., Pittsford, N. Y.
Filed May 4, 1928. Serial No. 265,897. PUBLISHED JULY 17, 1928. Class 46.

247,585. LEATHER BELT FOR FLOUR MILLS. WEBB BELTING CO., Kansas City, Mo.
Filed May 3, 1928. Serial No. 265,867. PUBLISHED JULY 24, 1928. Class 36.

247,586. DRY-CLEANING SOAP PREPARATION. WARREN SOAP MANUFACTURING COMPANY, Boston, Mass.
Filed May 3, 1928. Serial No. 265,866. PUBLISHED JULY 17, 1928. Class 4.

247,587. DOOR AND CASEMENT HINGES, DOOR AND CASEMENT PIVOTS, CASEMENT HOLDERS AND OPERATORS, TRANSOM OPERATORS, DOOR-CHECKS (OVERHEAD AND FLOOR), AND DOOR HOLDERS AND STAYS. THE OSCAR C. RIXSON COMPANY, Chicago, Ill.
Filed May 3, 1928. Serial No. 265,856. PUBLISHED JULY 24, 1928. Class 13.

247,588. BRASS, ALUMINUM, AND BRONZE CASTINGS. FULTON HARWOOD BRASS & ALUMINUM CO., South Bend, Ind.
Filed May 3, 1928. Serial No. 265,835. PUBLISHED JULY 17, 1928. Class 14.

247,589. TABLE GAME PLAYED WITH PIECES. AUSTIN W. ANDREWS, New York, N. Y.
Filed May 3, 1928. Serial No. 265,824. PUBLISHED JULY 17, 1928. Class 22.

247,590. PREPARATION FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, SCIATICA, GOUT, OR LITHEMIA. AUGUSTIN ALIANIELLO, doing business as Penataquit Drug Company, Bay Shore, N. Y.
Filed May 3, 1928. Serial No. 265,823. PUBLISHED JULY 10, 1928. Class 6.

247,591. TITLE OF A COLUMN IN DAILY NEWSPAPER—TO WIT, THE NEW YORK EVENING GRAPHIC. MACFADDEN PUBLICATIONS INCORPORATED, New York, N. Y.
Filed May 2, 1928. Serial No. 265,799. PUBLISHED JULY 10, 1928. Class 38.

247,592. LIP STICK. A. J. KRANK MFG. CO., St. Paul, Minn.
Filed May 2, 1928. Serial No. 265,797. PUBLISHED JULY 10, 1928. Class 6.

247,593. CLEANSING PREPARATION FOR RUGS, SILKS, SATINS, WOOL, AND COTTON. MILAN BEDROSIAN, doing business as Oriento Manufacturing Co., Elmira, N. Y.
Filed May 2, 1928. Serial No. 265,775. PUBLISHED JULY 10, 1928. Class 4.

247,594. PRINTING MACHINES. ADDRESSOGRAPH COMPANY, Chicago, Ill.
Filed May 2, 1928. Serial No. 265,766. PUBLISHED JULY 24, 1928. Class 23.

247,595. POWDERED COCOA. INTERNATIONALE CACAOFABRIEKEN, Amsterdam, Netherlands.
Filed May 1, 1928. Serial No. 265,726. PUBLISHED JULY 17, 1928. Class 46.

247,596. LIQUID TOILET SOAPS AND SCRUBBING SOAP. JOSEPH CHRISTOPHER SHEPARD, Wilmington, N. C.
Filed April 30, 1928. Serial No. 265,700. PUBLISHED JUNE 19, 1928. Class 4.

247,597. READY-MIXED PAINTS, LACQUER, VARNISH, PAINT ENAMEL, AND WATERPROOF PAINTS. PAINT ENGINEERS, INC., Chicago, Ill.
Filed April 30, 1928. Serial No. 265,683. PUBLISHED JULY 17, 1928. Class 16.

247,598. TEA. A. SCHILLING & CO., San Francisco, Calif.
Filed Apr. 30, 1928. Serial No. 265,605. PUBLISHED JULY 17, 1928. Class 46.

247,599. MEDICINE FOR EXTERNAL APPLICATION IN THE TREATMENT OF ECZEMA, RINGWORM, ITCH, SCABIES, PIMPLES, AND IN THE TREATMENT OF MANGE FOR ANIMALS. SPOREL MFG. CO., Brooklyn, N. Y.
Filed April 28, 1928. Serial No. 265,580. PUBLISHED JULY 10, 1928. Class 6.

247,600. GARMENT BAGS OF PAPER OR CLOTH. THE WHITE TAR COMPANY OF NEW JERSEY, INC., Kearny, N. J.
Filed March 22, 1928. Serial No. 263,628. PUBLISHED JULY 17, 1928. Class 2.

247,601. GARMENT BAGS OF PAPER OR CLOTH. THE WHITE TAR COMPANY OF NEW JERSEY, INC., Kearny, N. J.
Filed March 22, 1928. Serial No. 263,629. PUBLISHED JULY 24, 1928. Class 2.

247,602. CERTAIN NAMED PAINT PRODUCTS. THE DUO-IZ PRODUCTS CORP., Chicago, Ill.
Filed March 24, 1928. Serial No. 263,697. PUBLISHED JULY 17, 1928. Class 16.

247,603. COMPOUNDS FOR THE TREATMENT OF DIABETES AND ARTERIAL HYPERTENSION. LES ETABLISSEMENTS POULENC FRERES, Paris, France.
Filed March 24, 1928. Serial No. 263,709. PUBLISHED JULY 10, 1928. Class 6.

247,604. CHEMICAL PRODUCT TO BE MIXED WITH WATER AND USED IN DISINFECTING AND RESTORING TO TEXTILE FABRICS THE GLOSSY FINISH AND ORIGINAL COLORING. CHEMISCHE FABRIK JACOBUS G. M. B. H., Berlin-Charlottenburg, Germany.
Filed March 28, 1928. Serial No. 263,859. PUBLISHED JULY 17, 1928. Class 6.

247,605. LIQUID FUEL FOR CIGAR AND CIGARETTE LIGHTERS. LYTZO COMPANY, Chicago, Ill.
Filed March 28, 1928. Serial No. 263,877. PUBLISHED JULY 10, 1928. Class 6.

247,606. POCKET AND HAND LAMP UTILIZING LUMINOUS SUBSTANCES. GEORGE M. CORAM, doing business as Coram Brothers, Utica, N. Y.
Filed March 30, 1928. Serial No. 264,018. PUBLISHED JULY 17, 1928. Class 34.

247,607. HEADWEAR—NAMELY, CAPS FOR MEN AND BOYS. FITS-U CAP CO., St. Louis, Mo.
Filed March 30, 1928. Serial No. 264,029. PUBLISHED JULY 3, 1928. Class 39.

247,608. COAL, COKE, WOOD, FUEL-OIL, AND GAS FURNACES. HOLLAND FURNACE COMPANY, Holland, Mich.
Filed March 31, 1928. Serial No. 264,107. PUBLISHED JULY 17, 1928. Class 34.

247,609. STEEL SHOE HORNS. LAING HARRAR & CHAMBERLIN, INC., Philadelphia, Pa.
Filed April 2, 1928. Serial No. 264,171. PUBLISHED JULY 17, 1928. Class 40.

247,610. OIL, GAS, VAPOR, AND CALCIUM LAMPS AND PARTS THEREOF; PAPER, PARCHMENT, AND FABRIC LAMP SHADES AND PARTS THEREOF; AND GAS MANTLES. FRED BUTTERFIELD & CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,284. PUBLISHED JULY 10, 1928. Class 34.

247,611. CERTAIN NAMED BED AND TABLE LINENS AND DRAPERY. VIOLA MCWILLIAMS, Chicago, Ill.
Filed April 4, 1928. Serial No. 264,317. PUBLISHED JULY 24, 1928. Class 42.

247,612. SOUTHERN RELISH COMPOSED OF CHOPPED CABBAGE, ONION, RED AND GREEN PEPPERS, CELERY AND MUSTARD SEEDS, SPICES, AND VINEGAR; COLONIAL SWEET RELISH, FRUIT CONSERVES; LIVER APPETIZER COMPRISING A SMOOTH PASTE OR SPREAD MADE OF BABY BEEF LIVER, ESSENCE OF ONION, SALT, VIRGIN OLIVE OIL, AND VINEGAR; WATERMELON SWEET PICKLE, SALAD DRESSING, AND IMPORTED CHEESE SPREAD. TEA TIME FOOD PRODUCTS COMPANY, Chicago, Ill.
Filed April 4, 1928. Serial No. 264,335. PUBLISHED JULY 17, 1928. Class 46.

247,613. BANDEAUX, GIRDLES, AND GARTER BELTS. THE H. & W. COMPANY, Newark, N. J.
Filed March 31, 1928. Serial No. 264,097. PUBLISHED JULY 3, 1928. Class 39.

247,614. MOTOR TRUCKS AND BUSSES AND THEIR STRUCTURAL PARTS. AMPLEX MANUFACTURING COMPANY, Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware.
Filed April 5, 1928. Serial No. 264,345. PUBLISHED JULY 17, 1928. Class 19.

247,615. AUTOMOBILES. BUFFALO COMMERCIAL BODY CO. INC., Buffalo, N. Y.
Filed April 5, 1928. Serial No. 264,349. PUBLISHED JULY 10, 1928. Class 19.

247,616. CLOSURES FOR USE ON OR IN CONNECTION WITH MOTOR VEHICLES, SUCH AS ON THE RADIATORS, STARTING-CRANK OPENINGS, BREATHER PIPES, GASOLINE TANKS, AND THE LIKE. THE EASY-ON CAP COMPANY, Cleveland, Ohio, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio.
Filed April 5, 1928. Serial No. 264,366. PUBLISHED JULY 17, 1928. Class 19.

247,617. MEDICINAL PREPARATION USED AS AN INJECTION AS A TONIC IN THE TREATMENT OF ANEMIA, TUBERCULOSIS, INFLUENZA, MALARIA, NEURASTHENIA, AND SKIN AFFECTIONS. MANUEL GERY, Mexico, Mexico.
Filed April 7, 1928. Serial No. 264,490. PUBLISHED JULY 10, 1928. Class 6.

247,618. DEODORANTS, REVITALIZERS, AND LIQUID SPRAYS TO BE USED TO FRESHEN AND PERFUME THE AIR. THOMAS W. HICKS, doing business as Breath of New Mown Hay Co., Minneapolis, Minn.
Filed April 6, 1928. Serial No. 264,430. PUBLISHED JULY 10, 1928. Class 6.

247,619. PREPARED MEDICINE, A BRAND OF BILE SALTS. BROTHERS CORPORATION, New York, N. Y.
Filed March 19, 1928. Serial No. 263,373. PUBLISHED JULY 17, 1928. Class 6.

247,620. CANDIES, BONBONS, PASTRY, CAKES, COOKIES, CRACKERS, SANDWICHES, BISCUITS; NUTS, INCLUDING SHELLED, UNSHELLED, SALTED, FRESH, AND CANDIED NUTS; AND ICE CREAM, HOT CHOCOLATE, AND MALTED MILK. THE MIRROR, New York, N. Y.
Filed March 14, 1928. Serial No. 263,169. PUBLISHED JULY 17, 1928. Class 46.

247,621. CANDIES, BONBONS, PASTRY, CAKES, COOKIES, CRACKERS, SANDWICHES, BISCUITS; NUTS, INCLUDING SHELLED, UNSHELLED, SALTED, FRESH, AND CANDIED NUTS; ICE CREAM, HOT CHOCOLATE, AND MALTED MILK. THE MIRROR, New York, N. Y.
Filed March 14, 1928. Serial No. 263,167. PUBLISHED JULY 17, 1928. Class 46.

247,622. EARRINGS, FINGER RINGS, ANKLETS, BAR PINS, BROOCHES, PENDANTS, STRINGS OF BEADS, STRINGS OF PEARLS, BRACELETS, AND RHINESTONES. KAUFMAN & RUDERMAN CO. INC., New York, N. Y.
Filed March 14, 1928. Serial No. 263,158. PUBLISHED JULY 17, 1928. Class 28.

247,623. CYMBALS. THE FRED. GRETSCH MFG. CO., New York, N. Y.
Filed March 13, 1928. Serial No. 263,083. PUBLISHED JULY 17, 1928. Class 36.

247,624. POCKETKNIVES MADE OF BASE METAL. J. A. HENCKELS, Solingen, Germany.
Filed March 12, 1928. Serial No. 263,003. PUBLISHED JULY 24, 1928. Class 23.

247,625. NERVE TONIC PUT UP IN LIQUID FORM. WALTER BAIRD, doing business as You-Tha-Gan Company, Houston, Tex.
Filed March 12, 1928. Serial No. 262,994. PUBLISHED JULY 10, 1928. Class 6.

247,626. SWEET SPIRITS OF NITRE, WITCH-HAZEL, CITRATE OF MAGNESIA, BORIC ACID, AND BAY RUM. SAMUEL RUGOF, doing business as Rugof Chemist, New York, N. Y.
Filed March 7, 1928. Serial No. 262,771. PUBLISHED JULY 10, 1928. Class 6.

247,627. TALCUM POWDER. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed March 7, 1928. Serial No. 262,768. PUBLISHED JULY 17, 1928. Class 6.

247,628. COFFEE. THE C. KALBITZER PACKING CO., doing business as The Market Basket, Wheeling, W. Va.
Filed March 8, 1928. Serial No. 262,566. PUBLISHED JULY 17, 1928. Class 46.

247,629. COUGH SYRUPS, COD TONIC, EARACHE OIL, ETC. VICTOR F. KRING, doing business as Dr. Morrison's Medical Research Laboratories, Fort Wayne, Ind.
Filed March 1, 1928. Serial No. 262,466. PUBLISHED JULY 10, 1928. Class 6.

247,630. REPRODUCTIONS OF PHOTOGRAPHS AND PRINTS. JAHN & OLLIER ENGRAVING CO., Chicago, Ill.
Filed March 1, 1928. Serial No. 262,461. PUBLISHED JUNE 12, 1928. Class 38.

247,631. THERMOSTATICALLY-OPERATED PARTS OF MACHINES FOR AUTOMATICALLY MAINTAINING THE AIR SUPPLY TO INTERNAL-COMBUSTION ENGINES AT A PREDETERMINED TEMPERATURE. AUTOSTAT LIMITED, London, England.
Filed February 24, 1928. Serial No. 262,146. PUBLISHED JULY 24, 1928. Class 26.

247,632. SALVE, TONIC, AND LOTION, TOILET CREAM, ETC. MARIE EARLE, INC., New York, N. Y.
Filed February 20, 1928. Serial No. 261,970. PUBLISHED JULY 10, 1928. Class 6.

247,633. PREPARATION FOR THE TREATMENT OF COUGHS, COLDS, TONSILITIS, CROUP, AND WHOOPING COUGH, ALSO AS AN EFFECTUAL MEDICINE FOR CATARRH, BRONCHITIS, ASTHMA, HAY FEVER, AND ALL DISEASES OF THE RESPIRATORY SYSTEM. JOSEPH C. BRASHER, doing business as Pan-Lax Company, Dallas, Tex.
Filed February 20, 1928. Serial No. 261,988. PUBLISHED JULY 10, 1928. Class 6.

247,634. MEDICINE FOR TREATING STOMACH AILMENTS. GEORGE SOTIRIADES, doing business as George Tsioungas, Gary, Ind.
Filed February 17, 1928. Serial No. 261,843. PUBLISHED JULY 10, 1928. Class 6.

247,635. SILK FISHING LINES. WILLIAM HENRY LAMPERT ALFRED, doing business as Eaton & Deller, London, England.
Filed February 16, 1928. Serial No. 261,780. PUBLISHED JULY 17, 1928. Class 22.

247,636. LINIMENT USED IN THE TREATMENT OF MUSCULAR RHEUMATISM, LUMBAGO, BRONCHIAL COUGH, SPASMODIC CROUP, MUSCULAR CRAMP, NEURALGIA, SCIATICA, NEURALGIC HEADACHE, TOOTHACHE, BRUISES, STIFF NECK, SPRAIN, AND STIFFNESS AND SORENESS OF THE MUSCLES AFTER SEVERE EXERTION OR EXPOSURE. DR. EARL S. SLOAN INCORPORATED, Wilmington, Del.; New York, N. Y.; and St. Louis, Mo.
Filed February 1, 1928. Serial No. 261,024. PUBLISHED JUNE 12, 1928. Class 6.

247,637. WINDOW-DISPLAY FIXTURES FOR STORES—NAMELY, WOOD, GLASS, AND METAL WINDOW STANDS AND TOPS THEREFOR FOR DISPLAY OF ALL SORTS OF STORE WARES, AND DIVIDERS AND BASES FOR DISPLAY FORMS AND TOPS. ST. LOUIS WINDOW DISPLAY FIXTURE COMPANY, St. Louis, Mo.
Filed February 3, 1928. Serial No. 261,151. PUBLISHED JULY 24, 1928. Class 32.

247,638. SEWING-MACHINE NEEDLES. LEO LAMMERTZ, Aix-la-Chapelle, Germany.
Filed February 11, 1928. Serial No. 261,578. PUBLISHED JULY 24, 1928. Class 23.

247,639. GRINDING AND CRUSHING MACHINES, ESPECIALLY CRUSHING AND CENTRIFUGAL MILLS, DISINTEGRATORS, AND PARTS THEREOF. DEUTSCHE HURAGAN GESELLSCHAFT M. B. H., Berlin, Germany.
Filed January 5, 1928. Serial No. 259,712. PUBLISHED JULY 24, 1928. Class 23.

247,640. DOG REMEDIES—NAMELY, MEDICINES FOR THE TREATMENT OF FITS. CERTIFIED DOG REMEDIES, Atlanta, Ga.
Filed January 3, 1928. Serial No. 259,620. PUBLISHED JULY 17, 1928. Class 6.

247,641. HYDRATED AND QUICK LIME SOLD AS CHEMICALS FOR USE IN THE PRODUCTION OF SUGAR, STEEL, ICE, INSECTICIDES, PAPER, AND ANALOGOUS MANUFACTURES. UNITED STATES LIME PRODUCTS CORPORATION, San Francisco, Calif.
Filed December 22, 1927. Serial No. 259,265. PUBLISHED JULY 10, 1928. Class 6.

247,642. ANTIKNOCK COMPOUND IN THE FORM OF A CHEMICAL PREPARATION TO BE ADDED TO GASOLINE TO PREVENT KNOCKING IN INTERNAL-COMBUSTION ENGINES. SEYMOUR-HOWARD CORPORATION, Chicago, Ill.
Filed December 16, 1927. Serial No. 259,025. PUBLISHED JULY 10, 1928. Class 6.

247,643. WHEAT FLOUR. SHELLABARGER MILLS & ELEVATOR COMPANY, doing business as The Mid-Kansas Milling Co., Salina, Kans.
Filed December 7, 1927. Serial No. 258,600. PUBLISHED JUNE 5, 1928. Class 46.

247,644. STATIONERY FILES. RAVENSWOOD OFFICE SPECIALTIES COMPANY, Chicago, Ill.
Filed November 25, 1927. Serial No. 258,041. PUBLISHED JULY 24, 1928. Class 32.

247,645. COD-LIVER OIL. AYERST, MCKENNA & HARRISON LIMITED, Montreal, Quebec, Canada.
Filed November 19, 1927. Serial No. 257,770. PUBLISHED JULY 10, 1928. Class 6.

247,646. CORDIALS, WHISKEY, BRANDY, GIN, AND LIQUORS. CURT SCHNITTER, doing business as G. Melde, Cottbus, Germany.
Filed November 15, 1927. Serial No. 257,591. PUBLISHED JULY 24, 1928. Class 49.

247,647. HOUSEHOLD WASHING MACHINES AND PARTS THEREOF. THE SPEEDAY MANUFACTURING COMPANY, Cleveland, Ohio.
Filed November 12, 1927. Serial No. 257,515. PUBLISHED JULY 24, 1928. Class 24.

247,648. TONIC FOR LUNG TROUBLES, COUGHS, COLDS, INFLUENZA, AND NIGHT SWEATS. SIMMS DRUG CO., St. Louis, Mo.
Filed November 7, 1927. Serial No. 257,203. PUBLISHED JULY 10, 1928. Class 6.

247,649. LAXATIVES. ALBERT M. HOPPER, doing business as A. M. HOPPER & Co., New York, N. Y.
Filed November 4, 1927. Serial No. 257,068. PUBLISHED JULY 10, 1928. Class 6.

247,650. STORE FURNITURE—NAMELY, SHOW CASES, WALL CASES, WOOD-FRAME AND FRAMELESS GLASS CASES, COUNTERS, COUNTER SHOW CASES, TABLES, BACK BARS, MAGAZINE RACKS, BAKERY CASES, AND SHOW-CASE FIXTURES. THE COLUMBUS SHOW CASE CO., Columbus, Ohio.
Filed November 4, 1927. Serial No. 257,050. PUBLISHED JULY 24, 1928. Class 32.

247,651. FRESH HONEYDEW MELONS, FRESH CASABAS, AND FRESH CANTALOUPES, FRESH VEGETABLES, AND FRESH DECIDUOUS FRUITS. PRENTICE W. WILLIAMS, doing business as Fruit Distributors Co. of California, Los Angeles, Calif.
Filed November 2, 1927. Serial No. 256,985. PUBLISHED JULY 24, 1928. Class 46.

247,652. FRESH VEGETABLES, FRESH GRAPES, FRESH PEACHES, AND FRESH CANTALOUPES. A. E. BARKER & CO. OF CALIFORNIA, Los Angeles, Calif.
Filed November 2, 1927. Serial No. 256,897. PUBLISHED JULY 24, 1928. Class 46.

247,653. CANNED AND PRESERVED FIGS. TEXAS CITY CANNERIES, Texas City, Tex.
Filed October 29, 1927. Serial No. 256,797. PUBLISHED JULY 24, 1928. Class 46.

247,654. COTTON PIECE GOODS. MERRIMACK MANUFACTURING COMPANY, Lowell, Mass.
Filed October 29, 1927. Serial No. 256,787. PUBLISHED JULY 24, 1928. Class 42.

247,655. HAIR TONIC. KLEO STALUS, Woodside, N. Y.
Filed October 28, 1927. Serial No. 256,748. PUBLISHED JULY 10, 1928. Class 6.

247,656. CHEMICAL PRODUCTS FOR INDUSTRIAL, SCIENTIFIC, AND PHOTOGRAPHIC PURPOSES. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed October 17, 1927. Serial No. 256,180. PUBLISHED JULY 17, 1928. Class 6.

247,657. FRESH DECIDUOUS FRUITS. CHINCHIOLO BROS & Co., Stockton, Calif.
Filed October 12, 1927. Serial No. 255,963. PUBLISHED JULY 24, 1928. Class 46.

247,658. APPARATUS FOR MEASURING THE HARDNESS OF MATERIALS. THE SHORE INSTRUMENT & MFG. CO., Jamaica, N. Y.
Filed September 28, 1927. Serial No. 255,422. PUBLISHED JULY 24, 1928. Class 26.

247,659. FILES AND RASPS. ARCADE FILE WORKS, Anderson, Ind.
Filed June 4, 1928. Serial No. 267,401. PUBLISHED JULY 24, 1928. Class 23.

247,660. DICTIONARIES, BIBLES, AND CLASSICS. MORRIS MINKUS, New York, N. Y.
Filed June 2, 1928. Serial No. 267,373. PUBLISHED JULY 17, 1928. Class 38.

247,661. SYRUP, ESSENCES, FLAVOURINGS, FRUIT EXTRACTS, ALL BEING GOODS FOR USE IN THE MANUFACTURE OF NONALCOHOLIC, MALTLESS BEVERAGES. W. J. BUSH AND COMPANY, LIMITED, London, England.
Filed June 2, 1928. Serial No. 267,349. PUBLISHED JULY 24, 1928. Class 45.

247,662. AUTO TIRES AND TUBES. SOUTHERN TIRE AND RUBBER COMPANY, Augusta, Ga.
Filed June 1, 1928. Serial No. 267,321. PUBLISHED JULY 24, 1928. Class 35.

247,663. HINGES. MCKINNEY MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed June 1, 1928. Serial No. 267,309. PUBLISHED JULY 24, 1928. Class 13.

247,664. CHOCOLATES AND CANDIES. WALLACE & CO., Brooklyn, N. Y.
Filed May 31, 1928. Serial No. 267,284. PUBLISHED JULY 24, 1928. Class 46.

247,665. COLORING FOR CHEESE, BUTTER, MILK, CREAM, BEVERAGES, ICE CREAM, CUSTARD, SHERBETS, WATER ICES, AND FOOD PRODUCTS IN GENERAL. THE PRESERVALINE MANUFACTURING CO., Brooklyn, N. Y.
Filed May 31, 1928. Serial No. 267,275. PUBLISHED JULY 17, 1928. Class 6.

247,666. CHEMICAL PREPARATION FOR PREVENTING CORROSION OF METAL SURFACES SUCH AS THE INTERIOR SURFACES OF WATER PIPES. RALPH M. PALMER, New York, N. Y.
Filed May 31, 1928. Serial No. 267,271. PUBLISHED JULY 17, 1928. Class 6.

247,667. MONTHLY MAGAZINE. NASH-BREYER MOTOR COMPANY, Los Angeles, Calif.
Filed May 31, 1928. Serial No. 267,269. PUBLISHED JULY 17, 1928. Class 38.

247,668. LUBRICATING DEVICES FOR INTERNAL-COMBUSTION MOTORS. DECROW AUTOMOTIVE SPECIALTIES, INC., Lockport, N. Y.
Filed May 31, 1928. Serial No. 267,247. PUBLISHED JULY 24, 1928. Class 23.

247,669. FLAT GLASS. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn.
Filed May 31, 1928. Serial No. 267,227. PUBLISHED JULY 24, 1928. Class 33.

247,670. PERIODICAL PUBLISHED EVERY OTHER WEEK. PRICE CURRENT-GRAIN REPORTER, Chicago, Ill.
Filed May 29, 1928. Serial No. 267,211. PUBLISHED JULY 17, 1928. Class 38.

247,671. AUTOMOBILE RIM TOOLS. HERCULES PRODUCTS COMPANY, St. Joseph, Mich.
Filed May 29, 1928. Serial No. 267,195. PUBLISHED JULY 24, 1928. Class 23.

247,672. AUTOMOBILE RIM TOOLS. HERCULES PRODUCTS COMPANY, St. Joseph, Mich.
Filed May 29, 1928. Serial No. 267,194. PUBLISHED JULY 24, 1928. Class 23.

247,673. PERIODICAL PUBLICATION. THE EXCLUSIVE DISTRIBUTORS' ASSOCIATION, Columbus, Ohio.
Filed May 29, 1928. Serial No. 267,189. PUBLISHED JULY 17, 1928. Class 38.

247,674. SAFETY RAZORS. AUTO STROP SAFETY RAZOR COMPANY, INC., New York, N. Y.
Filed May 29, 1928. Serial No. 267,182. PUBLISHED JULY 24, 1928. Class 23.

247,675. MONTHLY PUBLICATION. DAVID M. LEA & COMPANY, INC., Richmond, Va.
Filed May 28, 1928. Serial No. 267,133. PUBLISHED JULY 17, 1928. Class 38.

247,676. HOSE MADE OF FABRIC OR RUBBER OR BOTH. NORMAN L. KUEHN, doing business as N. L. Kuehn Company, Milwaukee, Wis.
Filed May 28, 1928. Serial No. 267,130. PUBLISHED JULY 24, 1928. Class 35.

247,677. FERTILIZER-DISPENSING APPARATUS AND PARTS THEREOF. VEX SALES CORPORATION, Chicago, Ill.
Filed May 26, 1928. Serial No. 267,101. PUBLISHED JULY 24, 1928. Class 23.

247,678. A VEGETABLE TONIC AND BLOOD PURIFIER FOR LAXATIVE PURPOSES. VERMILYA MEDICINE COMPANY, Bloomington, Ind.
Filed May 26, 1928. Serial No. 267,100. PUBLISHED JULY 17, 1928. Class 6.

247,679. THREADS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed June 14, 1928. Serial No. 268,057. PUBLISHED JULY 24, 1928. Class 43.

247,680. THREADS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed June 14, 1928. Serial No. 268,056. PUBLISHED JULY 24, 1928. Class 43.

247,681. CANNED FISH. PACIFIC TRADING CO., INC., San Francisco, Calif.
Filed June 13, 1928. Serial No. 267,988. PUBLISHED JULY 24, 1928. Class 46.

247,682. CANNED FISH. ITALIAN FOOD PRODUCTS COMPANY, INC., Long Beach, Calif.
Filed June 13, 1928. Serial No. 267,962. PUBLISHED JULY 24, 1928. Class 46.

247,683. CANDY. ELGIN CHOCOLATE PRODUCTS CO. INC., Elgin, Ill.
Filed June 12, 1928. Serial No. 267,888. PUBLISHED JULY 24, 1928. Class 46.

247,684. CIGARS. THE CORAZA CIGAR COMPANY, Philadelphia, Pa.
Filed June 12, 1928. Serial No. 267,887. PUBLISHED JULY 24, 1928. Class 17.

247,685. AXMINSTER CARPETS AND RUGS. STEPHEN SANFORD & SONS INC., Amsterdam, N. Y.
Filed June 11, 1928. Serial No. 267,872. PUBLISHED JULY 24, 1928. Class 42.

247,686. FIRECRACKERS. PYRO IMPORTING COMPANY, Seattle, Wash.
Filed June 11, 1928. Serial No. 267,857. PUBLISHED JULY 24, 1928. Class 9.

247,687. ANTIFREEZE SOLUTION FOR AUTOMOBILE RADIATORS. JOHN BUCHANAN, East Pittsburgh, Pa.
Filed June 11, 1928. Serial No. 267,831. PUBLISHED JULY 17, 1928. Class 6.

247,688. NONALCOHOLIC BEVERAGES SUCH AS GINGER ALE AND OTHER BEVERAGES COMMONLY KNOWN AS SOFT DRINKS. NICHOLAS DEAKIDES, Athens, Ga.
Filed June 8, 1928. Serial No. 267,702. PUBLISHED JULY 24, 1928. Class 45.

247,689. CANNED SALMON. PACIFIC AMERICAN FISHERIES, Chicago, Ill., and South Bellingham, Wash.
Filed June 7, 1928. Serial No. 267,665. PUBLISHED JULY 24, 1928. Class 46.

247,690. CANNED SALMON. PACIFIC AMERICAN FISHERIES, Chicago, Ill., and South Bellingham, Wash.
Filed June 7, 1928. Serial No. 267,664. PUBLISHED JULY 24, 1928. Class 46.

247,691. EMULSIFYING APPARATUS AND PARTS THEREOF. NATIONAL MAYONNAISE MACHINE CO., INC., New York, N. Y.
Filed June 7, 1928. Serial No. 267,602. PUBLISHED JULY 24, 1928. Class 23.

247,692. CAMERAS. BURLEIGH BROOKS, New York, N. Y.
Filed June 7, 1928. Serial No. 267,632. PUBLISHED JULY 24, 1928. Class 26.

247,693. SEMIMONTHLY PUBLICATION. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y.
Filed June 6, 1928. Serial No. 267,552. PUBLISHED JULY 17, 1928. Class 38.

247,694. ANNUAL PUBLICATION. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y.
Filed June 6, 1928. Serial No. 267,550. PUBLISHED JULY 17, 1928. Class 38.

247,695. QUARTERLY PUBLICATION. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y.
Filed June 6, 1928. Serial No. 267,548. PUBLISHED JULY 17, 1928. Class 38.

247,696. COLLAPSIBLE CHAIRS, BENCHES, AND TABLES. TORRINGTON SPECIALTY COMPANY, INC., Torrington, Conn.
Filed June 5, 1928. Serial No. 267,520. PUBLISHED JULY 24, 1928. Class 32.

247,697. TUBE AND FLUE EXPANDERS, TUBE AND FLUE CUTTERS, AND TUBE AND FLUE BEADING TOOLS. GUSTAV WIEDEKE COMPANY, Dayton, Ohio.
Filed June 4, 1928. Serial No. 267,473. PUBLISHED JULY 17, 1928. Class 23.

247,698. EGG NOODLES. GOLD ROLLED FOOD PRODUCTS CO., Chicago, Ill.
Filed June 4, 1928. Serial No. 267,413. PUBLISHED JULY 17, 1928. Class 46.

247,699. FOOT DEODORANT. ODOR-NOX CHEMICAL CO., Chicago, Ill.
Filed May 26, 1928. Serial No. 267,074. PUBLISHED JULY 17, 1928. Class 6.

247,700. A HYGIENIC, PROPHYLACTIC, AND ANTISEPTIC PREPARATION. GRAPE CAPSULE COMPANY, INC., Allentown, Pa.
Filed May 15, 1928. Serial No. 266,423. PUBLISHED JULY 17, 1928. Class 6.

247,701. PHARMACEUTICAL PREPARATION TO BE USED AS A GENERAL TONIC. FELIX ALFARO DIAZ, doing business as Laboratories Filarysine, Santurce, P. R.
Filed May 15, 1928. Serial No. 266,419. PUBLISHED JULY 10, 1928. Class 6.

247,702. PREPARATION FOR THE TREATMENT OF HAIR AND SCALP. THE HERPICIDE COMPANY, Detroit, Mich.
Filed May 14, 1928. Serial No. 266,372. PUBLISHED JULY 10, 1928. Class 6.

247,703. CRACKERS, HYGIENIC CRACKERS, BREAKFAST FOOD, WAFERS, MUSH, BREAD, HONEY, HEALTH CONFECTIONS, COFFEE SUBSTITUTE, FRUIT AND NUT BUTTER, AND BRAN. J. E. GRANT, doing business as Grant's Hygienic Food Products Company, Berkeley, Calif.
Filed May 14, 1928. Serial No. 266,370. PUBLISHED JULY 17, 1928. Class 46.

247,704. CANDY. FERRARA PANNED CANDY CO. INC., Chicago, Ill.
Filed May 14, 1928. Serial No. 266,365. PUBLISHED JULY 17, 1928. Class 46.

247,705. TEA BALLS. SEEMAN BROTHERS, INC., New York, N. Y.
Filed May 12, 1928. Serial No. 266,336. PUBLISHED JULY 24, 1928. Class 46.

247,706. PERFUME, FACE POWDER, TALCUM POWDER, SACHET, FACE CREAMS, BRILLIANTINE, LOTIONS FOR THE SKIN AND HAIR, ROUGE, LIP STICKS, AND TOOTH PASTE. SOCIETE ANONYME DONGE, Courbevoie, France.
Filed May 11, 1928. Serial No. 266,279. PUBLISHED JULY 17, 1928. Class 6.

247,707. NEWSPAPER SUPPLEMENTS. B. F. PROVANDIE, Chicago, Ill.
Filed May 11, 1928. Serial No. 266,270. PUBLISHED JULY 17, 1928. Class 38.

247,708. BROOMS. THE JANSZEN COMPANY, Cincinnati, Ohio.
Filed May 11, 1928. Serial No. 266,248. PUBLISHED JULY 10, 1928. Class 29.

247,709. LINIMENT FOR EXTERNAL USE IN RELIEVING MUSCULAR PAINS. BOB CLINTON MFG. CO., Birmingham, Ala.
Filed May 10, 1928. Serial No. 266,190. PUBLISHED JULY 10, 1928. Class 6.

247,710. HEALING COMPOUND USED FOR THE TREATMENT OF CUTS, BURNS, ECZEMA, MANGE ON ANIMALS, SORE SHOULDERS ON HORSES, AND THRUSH ON FOOT. ISAAC A. ARNOLD, Cozad, Nebr.
Filed May 10, 1928. Serial No. 266,182. PUBLISHED JULY 10, 1928. Class 6.

247,711. INSECTICIDES. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany.
Filed May 9, 1928. Serial No. 266,168. PUBLISHED JULY 10, 1928. Class 6.

247,712. GRAPE JUICE. WIDMER'S GRAPE PRODUCTS INDUSTRY, Naples, N. Y.
Filed May 9, 1928. Serial No. 266,164. PUBLISHED JULY 24, 1928. Class 45.

247,713. GRAPE JUICE. WIDMER'S GRAPE PRODUCTS INDUSTRY, Naples, N. Y.
Filed May 9, 1928. Serial No. 266,162. PUBLISHED JULY 24, 1928. Class 45.

247,714. GRAPE JUICE. WIDMER'S GRAPE PRODUCTS INDUSTRY, Naples, N. Y.
Filed May 9, 1928. Serial No. 266,161. PUBLISHED JULY 24, 1928. Class 45.

247,715. CANNED FRUITS. HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Iwilei, Territory of Hawaii.
Filed May 9, 1928. Serial No. 266,133. PUBLISHED JULY 17, 1928. Class 46.

247,716. CANNED FRUITS, VEGETABLES, AND SHELLFISH; TABLE SIRUPS, TEA, COFFEE, BREAKFAST CEREALS, HONEY, FRUIT PRESERVES, OLIVES, SPICES, VINEGAR, AND CANNED SOUPS. STANDARD IMPORTS LIMITED, Montreal, Canada.
Filed May 8, 1928. Serial No. 266,109. PUBLISHED JULY 17, 1928. Class 46.

247,717. MAYONNAISE DRESSING CONSISTING OF VEGETABLE OIL, SUGAR, SALT, MUSTARD, PEPPER, EGGS, VINEGAR, CORNSTARCH, AND VEGETABLE COLORING; ALSO RELISH SPREAD CONTAINING THE SAME INGREDIENTS AS MAYONNAISE DRESSING WITH SWEET-PICKLE RELISH ADDED THERETO; ALSO THOUSAND ISLAND DRESSING CONTAINING THE SAME INGREDIENTS AS SAID MAYONNAISE DRESSING WITH CHILI SAUCE, SWEET PICKLE, AND PIMENTOS ADDED THERETO. R. B. SMITH, doing business as R. B. Smith & Co., Ogden, Utah.
Filed May 8, 1928. Serial No. 266,101. PUBLISHED JULY 17, 1928. Class 46.

247,718. WEIGHING SCALES, WEIGHING MACHINES, WEIGHING APPARATUS, COUNTING MACHINES, DYNAMOMETERS, BALANCE-TESTING MACHINES, AND INSTRUMENTS FOR MEASURING TENSION, RESILIENCE, STRENGTH OF MATERIAL, RESISTANCE TO DISTORTION, AND MOISTURE CONTENT. TOLEDO SCALE COMPANY, Toledo, Ohio.
Filed May 7, 1928. Serial No. 266,056. PUBLISHED JULY 24, 1928. Class 26.

247,719. TOILET WATER, COLD CREAM, VANISHING CREAM, TISSUE BUILDER, CLEANSING CREAM, TALCUM POWDER, BODY POWDER, FACE POWDER, DUSTING POWDER, DEODORANT, BANDOLINE, BRILLIANTINE, LIP STICK, ROUGE, COMPACTS, EYEBROW PENCIL, POWDER COMPACTS, PERFUME, SKIN LOTION, ASTRINGENT, SHAMPOO, VEGETABLE BATH SALTS, HAIR TONIC, AND TISSUE CREAM. PEOPLES DRUG STORES, INC., doing business as Moret Parfumeur, Washington, D. C.
Filed April 17, 1928. Serial No. 265,009. PUBLISHED JULY 10, 1928. Class 6.

247,720. SECTION OR DEPARTMENT OF A MONTHLY MAGAZINE. THE REVIEW OF REVIEWS CORPORATION, New York, N. Y.
Filed April 28, 1928. Serial No. 265,566. PUBLISHED JULY 10, 1928. Class 38.

247,721. FRESH DECIDUOUS FRUITS AND FRESH CITRUS FRUITS. LUCAS RANCHING COMPANY, Cucamonga, Calif.
Filed April 28, 1928. Serial No. 265,551. PUBLISHED JULY 24, 1928. Class 46.

247,722. TABLE GAME PLAYED WITH PIECES. MURRY LIVINGSTON, New York, N. Y.
Filed April 27, 1928. Serial No. 265,484. PUBLISHED JULY 17, 1928. Class 22.

247,723. LEATHER SHOES. HOLLAND SHOE COMPANY, Holland, Mich.
Filed April 27, 1928. Serial No. 265,480. PUBLISHED JULY 3, 1928. Class 39.

247,724. DYES AND DYESTUFFS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed April 26, 1928. Serial No. 265,428. PUBLISHED JULY 10, 1928. Class 6.

247,725. DYES AND DYESTUFFS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed April 26, 1928. Serial No. 265,427. PUBLISHED JULY 10, 1928. Class 6.

247,726. LIQUID HAIR WASH. ADOLPH FOGEL, doing business as Wave-Bak Co., Milwaukee, Wis.
Filed April 25, 1928. Serial No. 265,374. PUBLISHED JULY 10, 1928. Class 6.

247,727. SYNTHETIC RESINS FOR COATING AND IMPREGNATING PURPOSES. ELLIS-FOSTER COMPANY, Montclair, N. J.
Filed April 25, 1928. Serial No. 265,370. PUBLISHED JULY 10, 1928. Class 6.

247,728. SILK CHIFFON IN THE PIECE. DE L'OPERA FABRICS CORPORATION, New York, N. Y.
Filed April 25, 1928. Serial No. 265,368. PUBLISHED JULY 24, 1928. Class 42.

247,729. PAINT ENAMEL. THE ARCO COMPANY, Cleveland, Ohio.
Filed April 25, 1928. Serial No. 265,358. PUBLISHED JULY 17, 1928. Class 16.

247,730. PAINT ENAMEL. THE ARCO COMPANY, Cleveland, Ohio.
Filed April 25, 1928. Serial No. 265,357. PUBLISHED JULY 17, 1928. Class 16.

247,731. TRADE JOURNAL PUBLISHED MONTHLY. PRACTICAL PUBLICATIONS, INC., Indianapolis, Ind.
Filed April 24, 1928. Serial No. 265,344. PUBLISHED JULY 17, 1928. Class 38.

247,732. ANTISEPTIC CHEMICAL CLEANER FOR CLEANING THE HANDS, FLOORS, WASH ROOMS, TOILETS, SINKS, ICE BOXES, STONES, AND METALS. CHARLES H. BRIGGS, doing business as Charles H. Briggs & Co., Chicago, Ill.
Filed April 24, 1928. Serial No. 265,317. PUBLISHED JULY 17, 1928. Class 4.

247,733. MEDICINE FOR THE PREVENTION AND TREATMENT OF ROUP, BLACKHEAD, SORE HEAD, CHOLERA, COLDS, AND GENERAL INTESTINAL ANTISEPTIC FOR POULTRY. ROBERT E. PARRISH, doing business as The Parrish Drug Co., Bennington, Okla.
Filed April 23, 1928. Serial No. 265,289. PUBLISHED JULY 17, 1928. Class 6.

247,734. FIRE-RESISTING AND FIREPROOF LIQUIDS — NAMELY, PAINTS, VARNISHES, ENAMELS, AND STAINS. FUROLIN PAINT MFG. CO., INC., Chicago, Ill.
Filed April 21, 1928. Serial No. 265,204. PUBLISHED JULY 17, 1928. Class 16.

247,735. FINGER-NAIL DRESSINGS. THE LUSTRITE CORPORATION, New York, N. Y.
Filed April 20, 1928. Serial No. 265,160. PUBLISHED JULY 10, 1928. Class 6.

247,736. MONTHLY PUBLICATION. THE ELECTRICAL LEAGUE OF CLEVELAND, INC., Cleveland, Ohio.
Filed April 20, 1928. Serial No. 265,150. PUBLISHED JULY 10, 1928. Class 38.

247,737. FACE LOTIONS, FACE CREAMS, FACE POWDERS, TOILET POWDERS, TALCUM POWDERS, PERFUMES, TOILET WATERS, BATH SALTS, SACHETS, ROUGES (LIQUID, POWDER, AND COMPACT), EYEBROW PENCILS, LIP STICKS, BRILLIANTINE, AND NAIL POLISHES. AARON MAST, doing business as Steinway Perfumery Shop, Long Island City, N. Y.
Filed April 17, 1928. Serial No. 264,996. PUBLISHED JULY 10, 1928. Class 6.

247,738. DUST-ABSORBING COMPOUNDS. WAXOLIN, INC., Omaha, Nebr.
Filed April 7, 1928. Serial No. 264,547. PUBLISHED JULY 10, 1928. Class 4.

247,739. SPICES, PEANUT BUTTER, PEPPER SAUCE, FOOD-FLAVORING EXTRACT, AND PREPARED MUSTARD. THE FRANK TEA & SPICE CO., Cincinnati, Ohio.
Filed September 19, 1927. Serial No. 254,907. PUBLISHED JULY 17, 1928. Class 46.

247,740. CERTAIN NAMED RIBBONS, MATERIALS, KNITTED GOODS, AND TRICOTS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed September 8, 1927. Serial No. 254,503. PUBLISHED JULY 24, 1928. Class 42.

247,741. CANNED FISH, SMOKED FISH, AND PRESERVED. VAN CAMP SEA FOOD COMPANY, INC., Terminal Island, Calif.
Filed September 2, 1927. Serial No. 254,312. PUBLISHED JULY 24, 1928. Class 46.

247,742. BELTS, HOSE, AND PACKING MADE OF RUBBER OR RUBBER AND FABRIC. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed August 23, 1927. Serial No. 253,850. PUBLISHED JULY 24, 1928. Class 35.

247,743. CANDY BAR. ROACH, TISDALE & CO., Minneapolis, Minn.
Filed August 18, 1927. Serial No. 253,684. PUBLISHED JULY 3, 1928. Class 46.

247,744. LAXATIVE LOLLYPOPS. JACOB FRIEDLIEB, Rockaway Beach, N. Y.
Filed July 23, 1927. Serial No. 252,468. PUBLISHED JULY 10, 1928. Class 6.

247,745. FACE CREAMS. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed July 19, 1927. Serial No. 252,291. PUBLISHED JULY 10, 1928. Class 6.

247,746. INCENSE. SARAT CHANDRA NANDI, Detroit, Mich.
Filed July 18, 1927. Serial No. 251,977. PUBLISHED JULY 17, 1928. Class 6.

247,747. CANNED FRUITS, CANNED VEGETABLES, KETCHUP, CHILI SAUCE, AND FRUIT PRESERVES. NEW YORK CANNERS, INC., Rochester, N. Y.
Filed June 28 1927. Serial No. 251,237. PUBLISHED JULY 17, 1928. Class 46.

247,748. CANNED FRUITS AND CANNED VEGETABLES. NEW YORK CANNERS, INC., Rochester, N. Y.
Filed June 24, 1927. Serial No. 251,071. PUBLISHED JULY 24, 1928. Class 46.

247,749. TOMATO PASTE. ITALIAN FOOD PRODUCTS CO. INC., Long Beach, Calif.
Filed June 15, 1927. Serial No. 250,544. PUBLISHED JULY 17, 1928. Class 46.

247,750. FRESH POTATOES. BROWN COMPANY, Portland, Me., and Belle Glade, Fla.
Filed June 9, 1927. Serial No. 250,222. PUBLISHED JULY 24, 1928. Class 46.

247,751. REFRIGERATING APPARATUS AND PARTS OR UNITS THEREOF. LEONARD KAY WRIGHT, New York, N. Y.
Filed June 8, 1927. Serial No. 250,214. PUBLISHED JULY 24, 1928. Class 31.

247,752. CANDY. JUANITA MILLER, Oakland, Calif.
Filed June 8, 1927. Serial No. 250,186. PUBLISHED JULY 24, 1928. Class 46.

247,753. BRUSHES, BROOMS, AND DUSTERS. CLEAVES MANUFACTURING CO., Woonsocket, R. I.
Filed March 25, 1926. Serial No. 229,160. PUBLISHED JULY 10, 1928. Class 29.

247,754. CANNED FISH. MIYAKICHI KUMAMOTO, doing business as Kumamoto Fish Co., Seattle, Wash.
Filed June 17, 1926. Serial No. 233,382. PUBLISHED JULY 24, 1928. Class 46.

247,755. HAIR TONIC. OLIVE R. HURLBUT, doing business as Ello Laboratories, Douglaston, N. Y.
Filed December 6, 1926. Serial No. 241,054. PUBLISHED JANUARY 18, 1927. Class 6.

247,756. ANTISEPTIC PREPARATION FOR TREATMENT OF THE HAIR AND FACE. WILLIAM S. DRUM, doing business as W. S. Drum Company, Delhi, N. Y.
Filed December 18, 1926. Serial No. 241,656. PUBLISHED JULY 17, 1928. Class 6.

247,757. COMBINATION ACCELERATOR AND BRAKE PEDAL FOR AUTOMOBILES. GEORGE R. POWELL, Philadelphia, Pa.
Filed April 30, 1927. Serial No. 248,252. PUBLISHED JULY 24, 1928. Class 23.

247,758. PHARMACEUTICAL PREPARATION—NAMELY, LUNG BALSAM. THE SHA-O-CHEM COMPANY, Trevorton, Pa.
Filed May 26, 1927. Serial No. 249,608. PUBLISHED JULY 10, 1928. Class 6.

247,759. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES MADE FROM CRANBERRY JUICE AND SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. THE CRANADINE COMPANY, Hammonton, N. J.
Filed May 24, 1928. Serial No. 266,915. PUBLISHED JULY 24, 1928. Class 45.

247,760. EXTENSION TABLES MADE OF WOOD. JOHN BELLOCCHIO, New York, N. Y.
Filed May 24, 1928. Serial No. 266,911. PUBLISHED JULY 24, 1928. Class 32.

247,761. WASHING AND CLEANING COMPOUND. DOX COMPANY, San Francisco and Emeryville, Calif.
Filed May 23, 1928. Serial No. 266,855. PUBLISHED JULY 10, 1928. Class 4.

247,762. HAND AND POWER OPERATED SPRAYERS, SPRAY PUMPS, FIRE PUMPS, PUMPS, AND POWDER DUSTERS. D. B. SMITH & COMPANY, INC., Utica, N. Y.
Filed May 22, 1928. Serial No. 266,833. PUBLISHED JULY 24, 1928. Class 23.

247,763. SHELLED POP CORN NOT POPPED, POP CORN POPPED, AND POP CORN CONFECTIONS. LUMMIS & COMPANY, Philadelphia, Pa.
Filed May 22, 1928. Serial No. 266,822. PUBLISHED JULY 24, 1928. Class 46.

247,764. SILK GOODS IN THE PIECE. KORTLEE FROCK, INC., New York, N. Y.
Filed May 22, 1928. Serial No. 266,821. PUBLISHED JULY 3, 1928. Class 42.

247,765. SILK GOODS IN THE PIECE. KORTLEE FROCK, INC., New York, N. Y.
Filed May 22, 1928. Serial No. 266,820. PUBLISHED JULY 3, 1928. Class 42.

247,766. CANNED FRUITS AND CANNED VEGETABLES. FILICE & PERRELLI CANNING COMPANY, INC., Gilroy, Calif.
Filed May 22, 1928. Serial No. 266,803. PUBLISHED JULY 24, 1928. Class 46.

247,767. A SPECIALLY-PREPARED VARNISH. FRANK W. DUNNE CO., Oakland, Calif.
Filed May 22, 1928. Serial No. 266,801. PUBLISHED JULY 17, 1928. Class 16.

247,768. FRESH VEGETABLES, FRESH DECIDUOUS FRUITS, FRESH CITRUS FRUITS, FRESH GRAPES, FRESH HONEYDEWS, FRESH CASABAS, AND FRESH CANTALOUPES. BURNAND & COMPANY, Los Angeles, Calif., and Nogales, Ariz.
Filed May 22, 1928. Serial No. 266,789. PUBLISHED JULY 24, 1928. Class 46.

247,769. EVAPORATED MILK. OLD DOMINION TOBACCO COMPANY, INC., Norfolk, Va.
Filed May 21, 1928. Serial No. 266,741. PUBLISHED JULY 17, 1928. Class 46.

247,770. MEDICINES FOR USE IN THE TREATMENT OF DISEASES OF THE LUNGS AND TUBERCULOSIS. MRS. FRANK J. MAZY, Omaha, Nebr.
Filed January 20, 1928. Serial No. 260,398. PUBLISHED JULY 10, 1928. Class 6.

247,771. IRISH POTATOES IN THEIR NATURAL STATE. EKELMAN-WHITTIER CO., INC., Yakima, Wash.
Filed January 25, 1928. Serial No. 260,631. PUBLISHED JULY 24, 1928. Class 46.

247,772. SKIN LOTION. SNELSON & SONS, Atlanta, Ga.
Filed January 30, 1928. Serial No. 260,919. PUBLISHED JULY 10, 1928. Class 6.

247,773. ANTIFREEZING LIQUID. JOHN W. MACKEWICZ, New Hanover Square, Frederick, Pa.
Filed February 28, 1928. Serial No. 262,366. PUBLISHED JULY 17, 1928. Class 6.

247,774. MILK STOOLS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed May 26, 1928. Serial No. 267,055. PUBLISHED JULY 24, 1928. Class 23.

247,775. A MONTHLY PUBLICATION. THE BERGER MANUFACTURING COMPANY, Canton, Ohio.
Filed May 26, 1928. Serial No. 267,029. PUBLISHED JULY 17, 1928. Class 38.

247,776. OINTMENT FOR LOCAL APPLICATION FOR THE TREATMENT OF CHAPPED HANDS, SUNBURN, IRRITATION, AND SLIGHT ABRASIONS OF THE SKIN. B. J. HART & CO. LTD., New Orleans, La.
Filed May 25, 1928. Serial No. 266,990. PUBLISHED JULY 17, 1928. Class 6.

247,777. DECKLING AND BEVELING MACHINES, PAPER-DRINKING-CUP-MAKING MACHINES, AND ADHESIVE-APPLYING MACHINES. LESTER & WASLEY CO., INC., Norwich, Conn.
Filed May 25, 1928. Serial No. 267,001. PUBLISHED JULY 24, 1928. Class 23.

247,778. SALINE LAXATIVE AND APERIENT. OKLA WATER CO., Ada, Okla.
Filed May 24, 1928. Serial No. 266,947. PUBLISHED JULY 17, 1928. Class 6.

247,779. BASEBALL BATS. HILLERICH & BRADSBY CO., Louisville, Ky.
Filed May 24, 1928. Serial No. 266,935. PUBLISHED JULY 17, 1928. Class 22.

247,780. TISSUE-BUILDING PREPARATION TO BE TAKEN INTERNALLY AND RECOMMENDED FOR SUPPLEMENTAL FACIAL TREATMENTS. CHARLES W. GREEN, New York, N. Y.
Filed May 24, 1928. Serial No. 266,926. PUBLISHED JULY 17, 1928. Class 6.

247,781. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES MADE FROM CRANBERRY JUICE AND SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. THE CRANADINE COMPANY, Hammonton, N. J.
Filed May 24, 1928. Serial No. 266,916. PUBLISHED JULY 24, 1928. Class 45.

247,782. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed June 15, 1928. Serial No. 268,078. PUBLISHED JULY 24, 1928. Class 42.

247,783. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed June 16, 1928. Serial No. 268,141. PUBLISHED JULY 24, 1928. Class 42.

247,784. WORSTED AND WOOLEN TEXTILE FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed June 18, 1928. Serial No. 268,222. PUBLISHED JULY 24, 1928. Class 42.

247,785. WORSTED AND WOOLEN TEXTILE FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed June 18, 1928. Serial No. 268,224. PUBLISHED JULY 24, 1928. Class 42.

247,786. WORSTED AND WOOLEN TEXTILE FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed June 18, 1928. Serial No. 268,225. PUBLISHED JULY 24, 1928. Class 42.

247,787. COTTON AND RAYON YARNS. LONG ISLAND YARN CORPORATION, New York and Long Island City, N. Y.
Filed June 19, 1928. Serial No. 268,287. PUBLISHED JULY 24, 1928. Class 43.

247,788. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed June 19, 1928. Serial No. 268,288. PUBLISHED JULY 24, 1928. Class 42.

247,789. GUN WADDING. AMERICAN HAIR FELT COMPANY, Chicago, Ill.
Filed June 20, 1928. Serial No. 268,335. PUBLISHED JULY 24, 1928. Class 9.

247,790. CHILDREN'S CHAIRS, TABLES, AND SEATS. HERBERT ARTHUR THORNDIKE, doing business as The Dixietoy Company, Orlando, Fla.
Filed January 12, 1928. Serial No. 260,036. PUBLISHED JULY 24, 1928. Class 32.

247,791. PERFUMERY, FACE CREAM, FACE POWDER, ROUGE, AND NAIL VARNISH. ANDRÉ PERUGIA, Paris, France.
Filed January 14, 1928. Serial No. 260,135. PUBLISHED JUNE 12, 1928. Class 6.

247,792. CHIFFON IN THE PIECE MADE OF SILK. DE L'OPERA FABRICS CORPORATION, New York, N. Y.
Filed January 17, 1928. Serial No. 260,217. PUBLISHED JULY 24, 1928. Class 42.

247,793. OINTMENT FOR LOCAL TREATMENT OF ECZEMA, TETTER, RINGWORM, SUNBURN, CHAFING, STING OF INSECTS, AND POISON IVY. DR. R. L. RICHARDSON, doing business as Richardson Chemical Co., Franklin, Tenn.
Filed January 19, 1928. Serial No. 260,368. PUBLISHED JULY 10, 1928. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

247,794. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEEMAN'S LABORATORY INC., Atlanta, Ga. Filed Aug. 7, 1928. Serial No. 270,686.

BEEMAN'S QUICK RELIEF

For a Medicinal Preparation for Colds and Coughs, for Treating Aching Joints and Lumbago, Asthma, Headache, and Hay Fever, and for Use as a Laxative.
Claims use since 1925.

247,795. (CLASS 17. TOBACCO PRODUCTS.) M. TRELLES & COMPANY, New Orleans, La. Filed Aug. 21, 1928. Serial No. 271,368.

EL TRELLES

For Cigars, Cheroots, Cigarettes, and Little Cigars.
Claims use since Apr. 1, 1914.

247,796. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed May 11, 1928. Serial No. 266,232.

HOLLANDERS

For Brick.
Claims use since July 10, 1926.

247,797. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RANCHERS MANUFACTURING COMPANY, Pomona, Calif. Filed July 20, 1928. Serial No. 269,916.

"You can get it at the Ranchers"

For Pumps and Pump Parts.
Claims use since May, 1912.

247,798. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PAUL G. HOFFMAN CO. INC., Los Angeles, Calif. Filed July 7, 1928. Serial No. 269,238.

CERTIFIED SIX

For Automobiles.
Claims use since Jan. 1, 1923.

247,799. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES CRETORS, doing business as C. Cretors & Co., Chicago, Ill. Filed July 24, 1928. Serial No. 270,070.

CRETORS

For Butter Substitute for Flavoring, Relishing, and Seasoning Popped Corn.
Claims use since Jan. 26, 1925.

247,800. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE MANTHEY-ZORN LABORATORIES COMPANY, Cleveland, Ohio. Filed July 26, 1928. Serial No. 270,193.

Brazilian Ale

For Nonalcoholic, Noncereal, Maltless, Carbonated, Coffee-Flavored Beverage.
Claims use since July 1, 1923.

247,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARNOLD BROS., Chicago, Ill. Filed Apr. 27, 1928. Serial No. 265,461.

MANHATTAN

For Meat Loaf.
Claims use since Feb. 1, 1923.

247,802. (CLASS 12. CONSTRUCTION MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Dec. 23, 1925. Serial No. 225,071.

WEDGELOCK

For Prepared Shingles.
Claims use since Dec. 15, 1925.

247,803. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Aug. 7, 1926. Serial No. 235,695.

Recess

For Toilet Paper.
Claims use since Apr. 6, 1926.

247,804. (CLASS 39. CLOTHING.) THE BIJOU DRESS CO., New York, N. Y. Filed Dec. 6, 1926. Serial No. 241,030.

Le Modéle Parisien

For Ladies' Dresses.
Claims use since about Nov. 9, 1926.

247,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) METRO CHOCOLATE CO. INC., Brooklyn, N. Y. Filed Jan. 11, 1927. Serial No. 242,684.

NUT MALLOW

For Chocolate-Covered Marshmallow Bars.
Claims use since Aug. 26, 1921.

247,806. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed July 14, 1927. Serial No. 252,023.

VICENZAN

For Brick.
Claims use since Mar. 19, 1927.

247,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLADBROOK PACKING CO., also doing business as Gladbrook Mustard Factory, Long Beach, Calif. Filed July 18, 1927. Serial No. 252,190.

OLE KENTUCKY SWEET CHIPS

For Cucumber Pickles.
Claims use since May 26, 1927.

247,808. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM J. VOIT, doing business as W. J. Voit Rubber Company, Los Angeles, Calif. Filed Sept. 26, 1927. Serial No. 255,283.

SPORTBALL

For Inflatable Rubber Balls for Physical Exercising.
Claims use since July 6, 1927.

247,809. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CUTHBERT S. BUTCHART, Rye, N. Y., and Glenbrook, Conn. Filed Aug. 2, 1928. Serial No. 270,986.

Longrange

For Golf Club.
Claims use since Mar. 25, 1927.

247,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. J. MAYER AND SONS COMPANY, Chicago, Ill. Filed Apr. 13, 1928. Serial No. 264,769.

NEVERFAIL

For Compound or Preparation for Curing Preserved Meats, Such as Corned Beef, Pork, and Ham or the Like.
Claims use since Dec. 20, 1925.

247,811. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CALIFORNIA CRUSHED FRUIT CORPORATION, Los Angeles, Calif. Filed Oct. 1, 1927. Serial No. 255,483.

orange DRY

For Nonalcoholic, Maltless Beverages Used as a Soft Drink and Syrups, Extracts, and Concentrates for Preparing the Same.
Claims use since June 15, 1927.

247,812. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 16, 1927. Serial No. 254,801.



For Conducting Hose of Rubber and Fibrous Material.
Claims use since about Aug. 1, 1927.

247,813. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER LILES, doing business as Egg-Calc Laboratory, Richmond, Va. Filed July 25, 1927. Serial No. 252,516.

EGG-CALC

For a Medicinal Preparation in the Form of a Powder Made from Eggshells for the Treatment of Diseases Resulting from Low Calcium Content, Such as Rickets, Decaying Teeth, or for Calcium Deficiency in Bone Structure, Also for Preventing Nausea During Pregnancy.
Claims use since July 8, 1927.

LABELS

REGISTERED OCTOBER 2, 1928.

34,647.—*Title:* SUN RIPE. For Fresh Grapes. ALTA LOMA VINEYARDS CO. INC., Cucamonga, Calif. Published January 28, 1928.

34,648.—*Title:* GLORIA FLORENTINE LINENS. For Linens. FRED A. BALISH & BRO., New York, N. Y. Published March 1, 1928.

34,649.—*Title:* DATE NUT LOAF. For Health Dessert. H. H. BUNDSCHUH, Indio, Calif. Published December 3, 1927.

34,650.—*Title:* DEFIANCE SPARK PLUGS. For Spark Plugs. DEFIANCE SPARK PLUGS, INC., Toledo, Ohio. Published March 1, 1928.

34,651.—*Title:* 'WE' BRAND CREAMERY BUTTER. For Butter. WILLIAM DOANE, St. Louis, Mo. Published March 31, 1928.

34,652.—*Title:* GLENCLIFF CREAMERY BUTTER. For Butter. WILLIAM DOANE, St. Louis, Mo. Published April 25, 1928.

34,653.—*Title:* GARRETT'S VINEYARD BELL. For Fresh Grapes. GARRETT & COMPANY, INC., Cucamonga, Calif., and Brooklyn, N. Y. Published January 5, 1928.

34,654.—*Title:* QUALITY FOOTWEAR. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 23, 1928.

34,655.—*Title:* GLAN-A-TONE. For a Gland Tonic. ABRAHAM WILLIAM KAFOURE, doing business as Kafoure Chemical Co., Houston, Tex. Published July 10, 1927.

34,656.—*Title:* TOUR-NE-SOL. For a Face and Cleansing Cream. ALFRED J. KRANK, St. Paul, Minn. Published June 7, 1928.

34,657.—*Title:* 4 FRUIT MARMALADE. For Marmalade. BETH LEWIS, White Sulphur Springs, W. Va. Published August 15, 1928.

34,658.—*Title:* ML'S MAYFAIR DANDRUFF CURE AND HAIR RESTORER. For Dandruff Cure and Hair Restorer. MAYFAIR COMPANY, Tulsa, Okla. Published February 20, 1928.

34,659.—*Title:* PEPSO-GINGER. For Medicine for Indigestion, Sour or Acid Stomach, Gas, Etc. W. C. MCKEE, doing business as Pepso-Ginger Company, Columbus, Ohio. Published June 29, 1928.

34,660.—*Title:* CRAFT-PLASTER. For Prepared Plaster Materials in Color to be Applied on Walls and Ceilings as a Textured Finish Coat. PATRICK J. O'CONNOR, doing business as Eastern Stone Co., New York, N. Y. Published May 1, 1928.

34,661.—*Title:* LA BIANCA NEVE WASHING FLUID. For Washing Fluid. SALVATORE OLIVERI, doing business as La Bianca-Neve Washing Fluid Co., New York, N. Y. Published March 1, 1928.

34,662.—*Title:* PLAYING CARD, CANDY BOX SPECIAL. For Candy Boxes. OREGON PAPER BOX FACTORY, Portland, Oreg. Published July 31, 1928.

34,663.—*Title:* LA NAPOLETANA. For Macaroni. P. PASTENE & CO., INC., doing business as Purity Products Co., Boston, Mass. Published June 15, 1928.

34,664.—*Title:* A-RED-HOT-TIP. For Fresh Grapes. PODESTA IMPORT CO., San Francisco, Calif. Published June 15, 1928.

34,665.—*Title:* MAITLAND AVIATION COATS. For Coats. PURITAN CLOTHING COMPANY, New York, N. Y. Published July 1, 1928.

34,666.—*Title:* STAZRITE LUBRICANT. For Lubricating Greases. QUAKER OIL PRODUCTS CORPORATION, Conshohocken, Pa. Published July 19, 1928.

34,667.—*Title:* SUPER SERVICE. For Full Molded Tube. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

34,668. *Title:* SUPER SERVICE. For Automobile Dust Cloth. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

34,669.—*Title:* TERRY'S CAPSULES. For Purely-Vegetable Tonic Laxative for the Liver, Kidneys, and Bowels. TAYLOR J. TERRY, Minneapolis, Minn. Published July 23, 1928.

34,670.—*Title:* BETSY'S BEST. For Kitchen Products, Such as Marmalades, Jams, Jellies, and Pickles. BERTHA THURBER, Rochester, N. Y. Published June 28, 1928.

34,671.—*Title:* VITALITY. For Malt Syrup. WEST PENN FEED & MILLING COMPANY, West Brownsville, Pa. Published April 28, 1928.

34,672.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF PALM TREES, STEAMSHIP AND COOLIES CARRYING BAGS OF COFFEE). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,673.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF ARABS SITTING BESIDE A CAMEL AND DRINKING COFFEE). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,674.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF AMERICAN PIONEER AND LOG CABIN). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,675.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF COFFEE PLANTATION). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,676.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF COFFEE BEANS AND LEAVES). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,677.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF PORTRAIT OF ARAB). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,678.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF COFFEE PLANTATION WITH PALM TREES IN FOREGROUND AND SHIP FOR BACKGROUND). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,679.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF EAGLE). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,680.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF WOMAN HOLDING CUP OF COFFEE AND A SAUCER). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,681.—*Title:* OUR GUARANTEE IS BACK OF THIS COFFEE (WITH ILLUSTRATION OF PERSONS SEATED AT TABLES IN HOTEL DINING ROOM). For Coffee. JOHN H. WILKINS COMPANY, INC., Washington, D. C. Published June 1, 1928.

34,682.—*Title:* MAGIC CITY CREAMERY BUTTER. For Butter. MRS. E. I. WILSON, doing business as Southern Butter Company, Birmingham, Ala. Published January 15, 1928.

34,683.—*Title:* GENUINE WISDOM DETERGENT. For a Chemical Detergent. WISDOM SUPPLY COMPANY, Los Angeles, Calif. Published June 1, 1928.

PRINTS

REGISTERED OCTOBER 2, 1928.

11,244.—*Title:* MERRIE-TIME. For Candy. THE EDW. M. BECKER COMPANY, Cleveland, Ohio. Published June 15, 1928.

11,245.—*Title:* DEFIANCE SPARK PLUGS. For Spark Plugs. DEFIANCE SPARK PLUGS, INC., Toledo, Ohio. Published March 1, 1928.

11,246.—*Title:* DEFIANCE SPARK PLUGS AIR-COOLED OIL PLUG. For Spark Plugs. DEFIANCE SPARK PLUGS, INC., Toledo, Ohio. Published March 1, 1928.

11,247.—*Title:* FREDERICS VITA-TONIC COMPOUND GRAY AND WHITE SHADES. For a Compound for Waving Hair. E. FREDERICS, INC., New York, N. Y. Published May 14, 1928.

11,248.—*Title:* FREDERICS VITA-TONIC COMPOUND BROWN AND DARK SHADES. For a Compound for Waving Hair. E. FREDERICS, INC., New York, N. Y. Published May 14, 1928.

11,249.—*Title:* NEW YORK CITY OF MARVELS. For Book Containing Views of New York City. ABRAHAM LEVY, doing business as United Postal Card Co., Brooklyn, N. Y. Published June 8, 1928.

11,250.—*Title:* NEW YORK CITY OF MARVELS. For Books Containing Views of New York City. ABRAHAM LEVY, doing business as United Postal Card Co., Brooklyn, N. Y. Published June 8, 1928.

11,251.—*Title:* JUST THE TASTE YOU'VE BEEN LONGING FOR. For Coffee. ALICE FOOTE MACDOUGAL & SONS, INC., New York, N. Y. Published January 27, 1928.

11,252.—*Title:* PULLING FOR JOHN ROTEN. For Hats. JOHN ROTEN, Wharton, Tex. Published March 31, 1926.

11,253.—*Title:* YOUR TONGUE TELLS THE TRUTH! THREE KINGS SATISFY YOUR SMOKE THIRST. For Cigarettes. THE UNION TOBACCO COMPANY, Wilmington, Del., and New York, N. Y. Published July 12, 1928.

11,254.—*Title:* YOUR TONGUE TELLS THE TRUTH! THREE KINGS ARE DIFFERENT. For Cigarettes. THE UNION TOBACCO COMPANY, Wilmington, Del., and New York, N. Y. Published July 10, 1928.

11,255.—*Title:* WISE BOW. For Neckties. BENJAMIN WEISBERG, Philadelphia, Pa. Published April 15, 1928.

11,256.—*Title:* JOS. WOLFE, INC. For Clothes for Men and Young Men. JOS. WOLFE, INC., Newark, N. J. Published July 26, 1928.

REISSUES

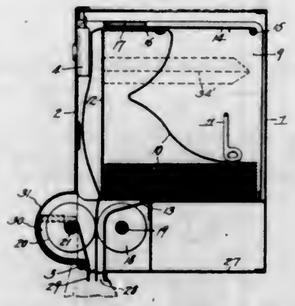
OCTOBER 2, 1928.

17,091. MEANS FOR SECURING KNOBS AND DIALS TO INSTRUMENT SHAFTS. HENRY J. KASCH, Dayton, Ohio, assignor to Kurz-Kasch Company, South Broadway, near Dayton, Ohio, a Corporation of Ohio. Filed Jan. 28, 1926. Serial No. 84,522. Original No. 1,563,635, dated Dec. 1, 1925, Serial No. 723,951, filed July 3, 1924. 12 Claims. (Cl. 116—129.)



1. In a device of the type described, the combination with a shaft, of a knob and a dial for conjoint use in turning the shaft, the dial having a tapering axial hole and the knob having a tubular extension adapted to be brought over said hole, a loose bushing having a tapered, split end adapted to be contracted within said hole, and having its opposite end threaded for connection with the tubular extension on the knob, whereby when the knob is turned, the tapered end of the bushing will be contracted tightly about the shaft, for the purpose specified.

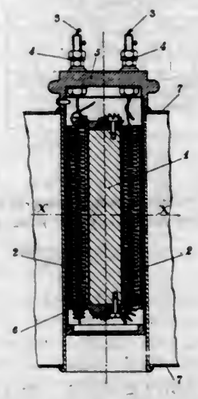
17,092. DISPENSING CABINET. MOSES M. MARCUSE, New York, N. Y., assignor to West Disinfecting Company, Long Island City, N. Y., a Corporation of New York. Filed May 1, 1928. Serial No. 274,310. Original No. 1,658,608, dated Feb. 7, 1928, Serial No. 73,406, filed Dec. 5, 1925. 11 Claims. (Cl. 312—39.)



1. A portable receptacle for dispensing cabinets, provided with an opening in its rear wall for receiving the material to be dispensed, a front wall having a platen extending inwardly from the upper edge thereof, and a top wall having its forward edge normally resting upon said platen whereby the stock to be dispensed is placed under tension as it is drawn over said platen and between it and the forward edge of said cover, said top being revolvable about its rear edge into position to close said opening in the rear wall of said receptacle.

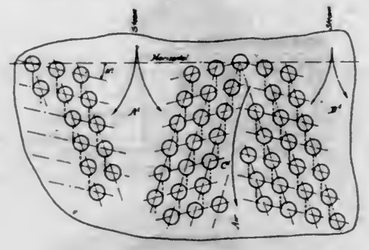
17,093. THERMOELECTRIC HEATER. ANGELO TORRIANI, Pavia, Italy. Filed Feb. 18, 1928. Serial No. 255,453. Original No. 1,651,644, dated Dec. 6, 1927, Serial No. 71,854, filed Nov. 27, 1925, and in Italy Dec. 15, 1924. 5 Claims. (Cl. 219—38.)

1. A thermo-electric candle for heating fluid masses, in which a plurality of spiral resistances are used, lodged each in a recess of its own formed in a heat transmission mass, this heat transmission mass being an accurate fit in an outer envelope secured to the walls of the vessel in which the fluid to be heated is contained, so that when said



resistances are energized, said mass of material is caused by the thermal expansion to come in forcible contact with said envelope.

17,094. SURFACE CONDENSER. ANDRÉ GINABAT, Paris, France. Filed May 9, 1924. Serial No. 712,169. Original No. 1,451,334, dated Apr. 10, 1923, Serial No. 466,481, filed May 3, 1921. 19 Claims. (Cl. 257—43.)

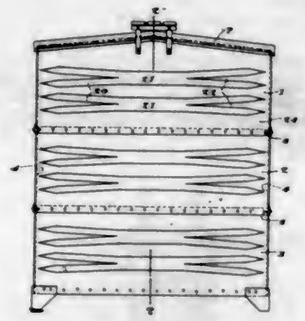


15. A surface condenser of the tubular type having tubes so disposed that a vertical line from every point on the axis of the upper tube of a pair of tubes is practically tangent to the lower tube of the pair, clearance spaces being provided in the midst of the tubular system for the entrance of steam.

17,095. METAL STRUCTURE FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed June 15, 1928. Serial No. 285,651. Original No. 1,638,172, dated Aug. 9, 1927, Serial No. 595,634, filed Oct. 19, 1922. Divided and application filed Jan. 3, 1927. Serial No. 158,595. 41 Claims. (Cl. 105—410.)

1. A metallic panel for railway cars having a reinforcement formed therein, comprising a plurality of stiffening

ribs which merge into each other to form a relatively wider stiffening rib adjacent the center of said reinforcement,



the height of said reinforcement being greatest adjacent its center and almost parallel to the first mentioned ribs.

17,096. METHOD OF COLORING YARN ON BOBBINS. JAMES S. JOHNSTON, Elmira, N. Y., assignor, by mesne assignments, to Eclipse Textile Devices, Incorporated, Elmira Heights, N. Y., a Corporation of New York. Filed Mar. 8, 1928. Serial No. 260,214. Original No. 1,613,707, dated Jan. 11, 1927, Serial No. 751,069, filed Nov. 20, 1924. 11 Claims. (Cl. 8—5.)

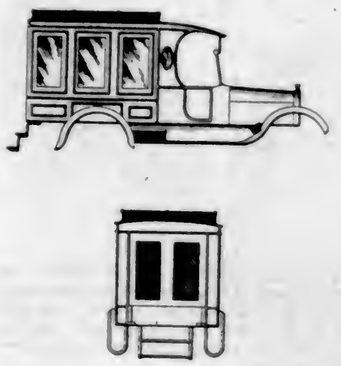


1. The herein described process for coloring portions of yarn on the bobbin consisting in applying a coloring fluid to a portion of the periphery of the yarn on the bobbin and drawing said coloring matter into the yarn by suction applied to the interior of the bobbin.

DESIGNS

OCTOBER 2, 1928.

76,447. MOTOR-VEHICLE BODY. WILLIAM E. AVRIL, Santa Monica, Calif. Filed Oct. 5, 1927. Serial No. 23,644. Term of patent 14 years.



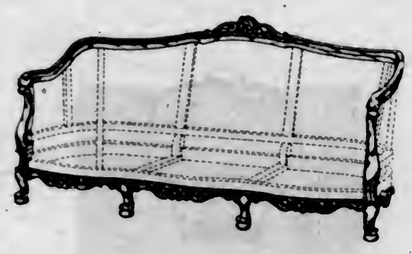
The ornamental design for a motor vehicle body as shown.

76,448. STOCKING. LOUIS D. BARISH, New York, N. Y. Filed May 19, 1928. Serial No. 26,762. Term of patent 7 years.



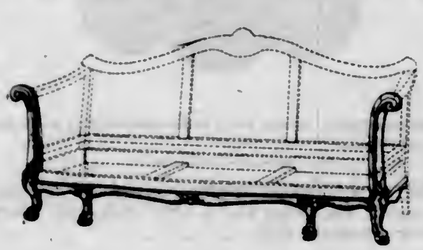
The ornamental design for a stocking, substantially as shown.

76,449. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill, a Corporation of Illinois. Filed May 14, 1928. Serial No. 26,672. Term of patent 3½ years.



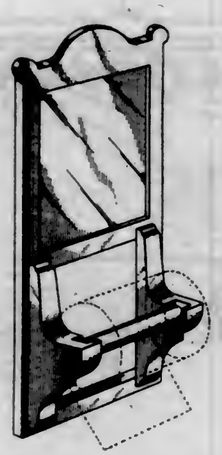
The ornamental design for a settee frame or similar article, as shown.

76,450. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed May 16, 1928. Serial No. 26,700. Term of patent 3½ years.



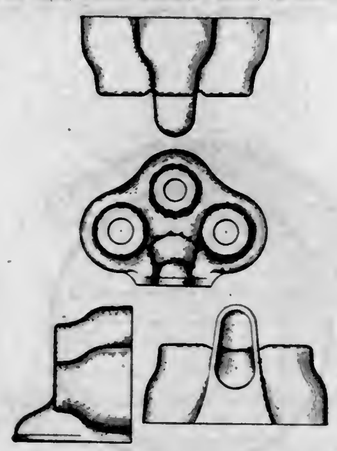
The ornamental design for a settee frame or similar article as shown.

76,451. COMBINATION TOILET-PAPER HOLDER AND MIRROR. SAMUEL BEGGS, Chicago, Ill. Filed Jan. 16, 1928. Serial No. 24,901. Term of patent 7 years.



The ornamental design for a combination toilet paper holder and mirror, as shown.

76,452. ESCUTCHEON. RALPH E. BLETCHER and ERNEST H. BUCKNELL, Los Angeles, Calif. Filed June 6, 1928. Serial No. 27,020. Term of patent 7 years.



The ornamental design for an escutcheon, as shown.

76,453. CONSOLE TABLE. EDWARD G. BLUMENFELD, Brooklyn, N. Y., assignor to La Salle Brass & Bronze Works, Inc., a Corporation of New York. Filed Aug. 2, 1928. Serial No. 27,673. Term of patent 3½ years.



The ornamental design for a console table, as shown.

76,454. PLATE. EDGAR M. BOTTOME, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed July 2, 1928. Serial No. 27,348. Term of patent 14 years.



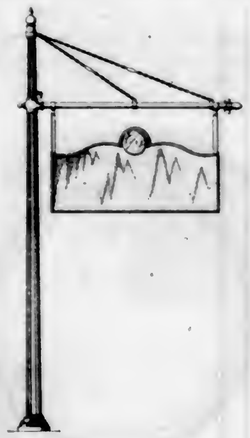
The ornamental design for a plate, as shown and described.

76,455. PLATE. EDGAR M. BOTTOME, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed July 2, 1928. Serial No. 27,349. Term of patent 14 years.



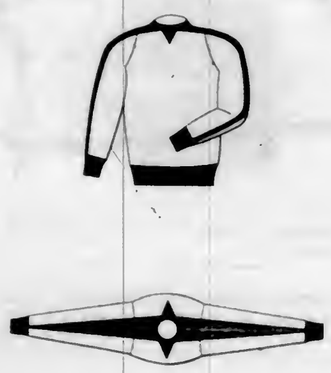
The ornamental design for a plate, as shown and described.

76,456. SIGN. ROBERT S. BRENNER, Union City, N. J., and JOHN SCOTT, Stapleton, N. Y., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed June 19, 1928. Serial No. 27,202. Term of patent 14 years.



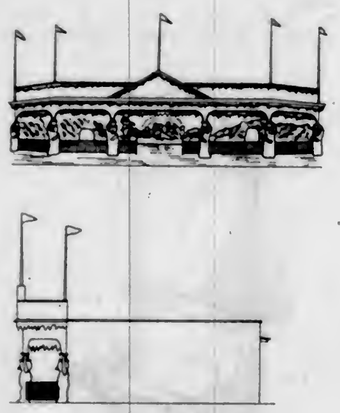
The ornamental design for a sign, as shown.

76,457. SHIRT. HAROLD L. BURR, Rockford, Ill. Filed Jan. 19, 1927. Serial No. 20,434. Term of patent 7 years.



The ornamental design for a shirt substantially as shown and described.

76,458. AMUSEMENT HOUSE. NAHUM A. CANNON, Fairview, Ala. Filed Nov. 4, 1927. Serial No. 24,009. Term of patent 14 years.



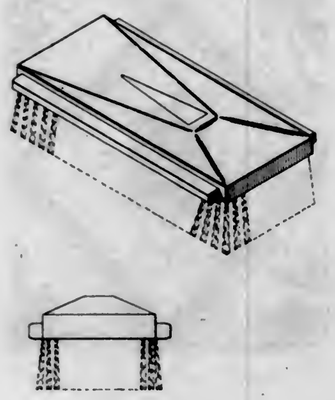
The ornamental design for an amusement house substantially as shown and described.

76,459. TABLE SCARF OR SIMILAR ARTICLE. JOSEPH DERK, Doylestown, Pa., assignor to The Derk Manufacturing Company, Doylestown, Pa., a Corporation of Pennsylvania. Filed July 18, 1928. Serial No. 27,521. Term of patent 3½ years.



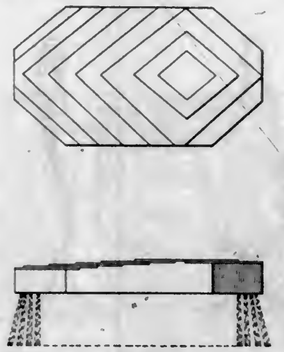
The ornamental design for a table scarf or similar article as shown and described.

76,460. BRUSH BACK. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The Ames Brush Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,174. Term of patent 7 years.



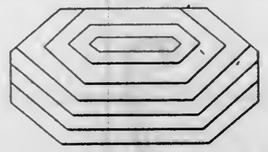
The ornamental design for a brush back, substantially as shown.

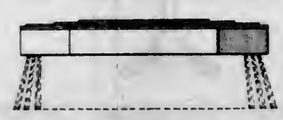
76,461. BRUSH BACK. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The Ames Brush Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,176. Term of patent 7 years.



The ornamental design for a brush back, substantially as shown.

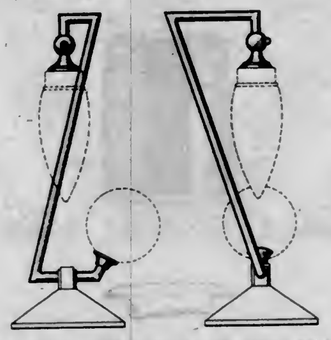
76,462. BRUSH BACK. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,189. Term of patent 7 years.





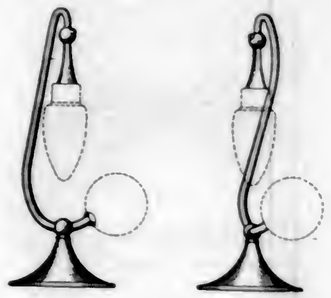
The ornamental design for a brush back, substantially as shown.

76,463. ATOMIZER. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,183. Term of patent 7 years.



The ornamental design for an atomizer, substantially as shown.

76,464. ATOMIZER. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,189. Term of patent 7 years.



The ornamental design for an atomizer, substantially as shown.

76,465. ATOMIZER. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,190. Term of patent 7 years.



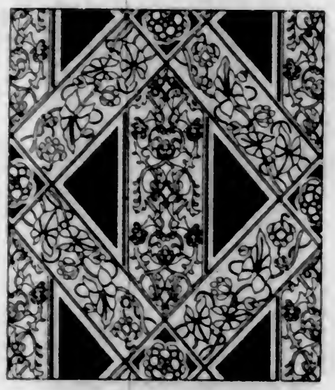
The ornamental design for an atomizer, substantially as shown.

76,466. BELT BUCKLE. ROBERT F. EICHNER, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed July 11, 1928. Serial No. 27,453. Term of patent 3½ years.



The ornamental design for a belt buckle, as shown.

76,467. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed July 19, 1928. Serial No. 27,530. Term of patent 7 years.



The ornamental design for a textile fabric, substantially as shown.

76,468. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed July 19, 1928. Serial No. 27,531. Term of patent 7 years.



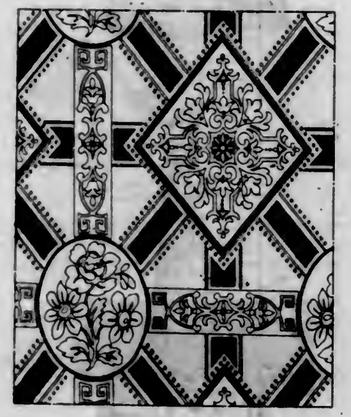
The ornamental design for a textile fabric, substantially as shown.

76,469. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed July 19, 1928. Serial No. 27,532. Term of patent 7 years.



The ornamental design for a textile fabric, substantially as shown.

76,470. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed July 19, 1928. Serial No. 27,534. Term of patent 7 years.



The ornamental design for a textile fabric, substantially as shown.

76,471. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed July 19, 1928. Serial No. 27,535. Term of patent 7 years.



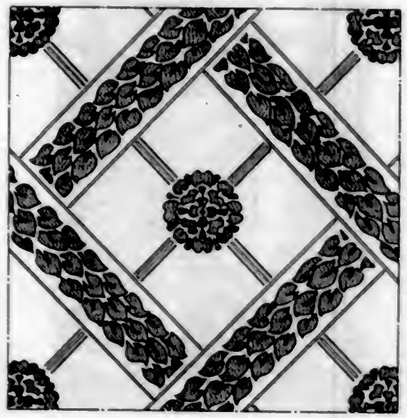
The ornamental design for a textile fabric, substantially as shown.

76,472. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed July 26, 1928. Serial No. 27,586. Term of patent 7 years.



The ornamental design for a textile fabric, substantially as shown.

76,473. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed July 26, 1928. Serial No. 27,587. Term of patent 7 years.



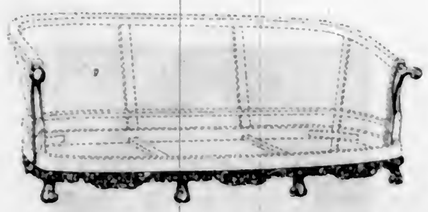
The ornamental design for a textile fabric, substantially as shown.

76,474. CAKE. AUGUSTINE C. GORTON, Whittenburg, Tex. Filed July 7, 1928. Serial No. 27,411. Term of patent 7 years.



The ornamental design for a cake, as shown.

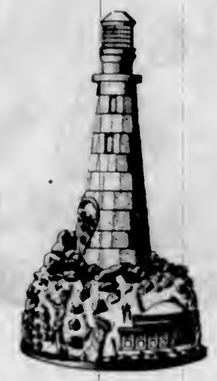
76,475. SETTEE FRAME OR SIMILAR ARTICLE. CHARLES T. GRAHAM, Grand Rapids, Mich., assignor to American Parlor Frame Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed May 28, 1928. Serial No. 26,882. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown and described.

76,476. LAMP. JOSEPHINE A. GREATHOUSE, Los Angeles, Calif. Filed Jan. 23, 1928. Serial No. 24,997. Term of patent 3½ years.





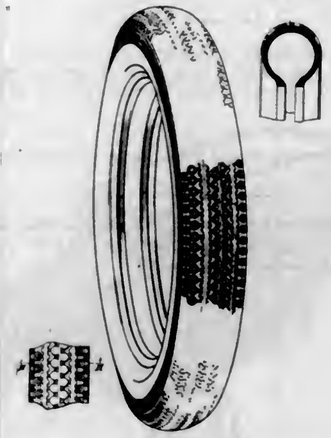
The ornamental design for a lamp substantially as shown.

76,477. FOLDING CHAIR. WALLACE G. GROSSMAN, North White Plains, N. Y. Filed May 23, 1928. Serial No. 26,826. Term of patent 3½ years.



The ornamental design for a folding chair as shown.

76,478. VEHICLE TIRE. LA PORT W. HEEFNER, Greensburg, Pa., assignor to Pennsylvania Rubber Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Dec. 3, 1927. Serial No. 24,376. Term of patent 14 years.



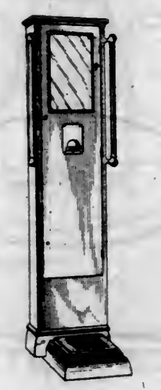
The ornamental design for a vehicle tire, as shown.

76,479. TRIMMING BRAID. PAUL HERSHKOWITZ and NATHAN HERSHKOWITZ, New York, N. Y. Filed Sept. 29, 1927. Serial No. 23,577. Term of patent 14 years.



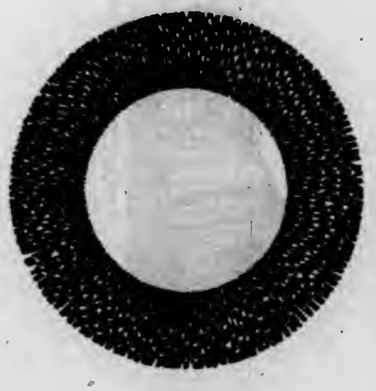
The ornamental design for trimming braid, as shown.

76,480. WEIGHING-SCALE CASING. GUSTAV F. HOCHRIEM, Chicago, Ill., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 11, 1926. Serial No. 19,033. Term of patent 14 years.



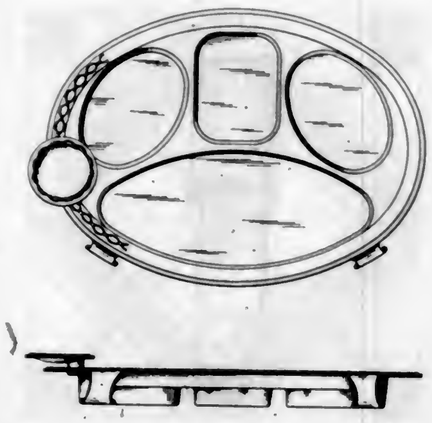
The ornamental design for a weighing scale casing, as shown.

76,481. WREATH. VICTOR T. HOEFLICH, New York, N. Y. Filed Apr. 6, 1928. Serial No. 26,154. Term of patent 14 years.



The ornamental design for a wreath, as shown.

76,482. SERVICE TRAY. SAMUEL W. JAMES, Chicago, Ill. Filed Jan. 4, 1928. Serial No. 24,752. Term of patent 3½ years.



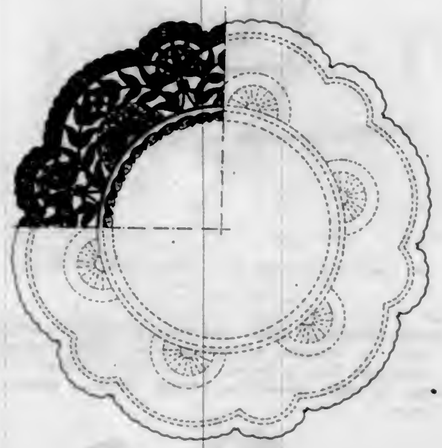
The ornamental design for a service tray as shown and described.

76,483. COMBINED PIANO CASE AND WRITING DESK. WEBSTER E. JANSSEN, New York, N. Y. Filed Apr. 24, 1928. Serial No. 26,443. Term of patent 14 years.



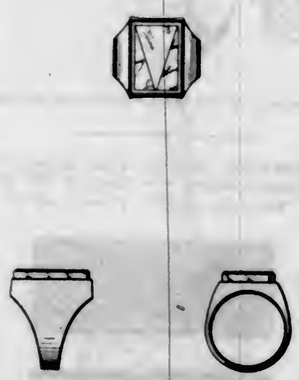
The ornamental design for a combined piano case and writing-desk as shown.

76,484. DOILY. EDWARD KARFIOL, Brooklyn, N. Y. Filed July 18, 1928. Serial No. 27,515. Term of patent 14 years.



The ornamental design for a doily as shown and described.

76,485. FINGER RING. JOHN W. KRISCH, Kansas City, Mo. Filed Nov. 21, 1927. Serial No. 24,222. Term of patent 3½ years.



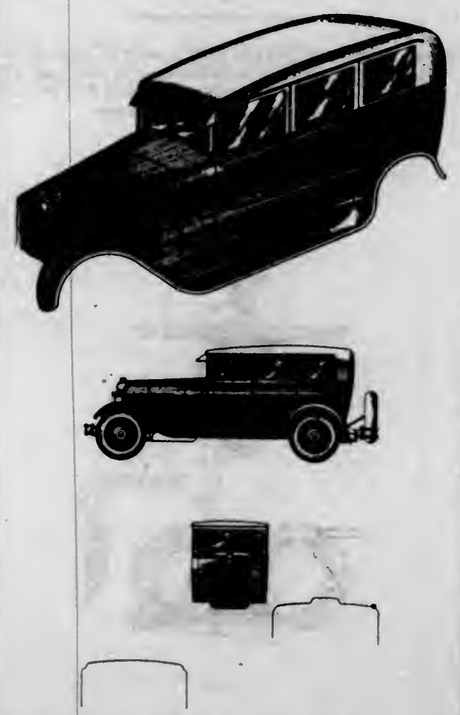
The ornamental design for a finger ring as shown.

76,486. BOX FOR PERFUME, POWDER, OR THE LIKE. ANDRÉ LAVAULT, Paris, France, assignor to Associated Merchandising Corporation, a Corporation of New Jersey. Filed Nov. 25, 1927. Serial No. 24,275. Term of patent 14 years.



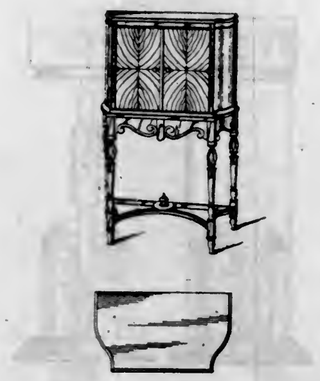
The ornamental design for a box for perfume, powder, or the like, as shown and described.

76,487. COMBINED AUTOMOBILE BODY AND HOOD. DWIGHT B. LEE, Detroit, Mich. Filed Apr. 23, 1927. Serial No. 21,700. Term of patent 14 years.



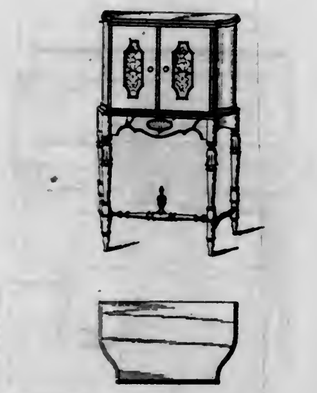
The ornamental design for a combined automobile body and hood, as shown and described.

76,488. RADIOCABINET. ISAAC ARYNSAN LUND, Chicago, Ill. Filed June 15, 1928. Serial No. 27,138. Term of patent 3½ years.



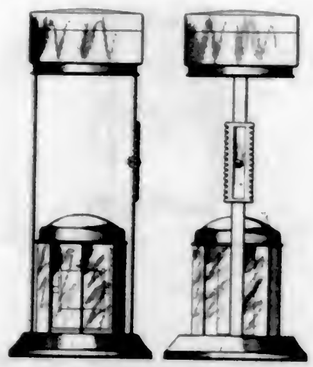
The ornamental design for a radiocabinet substantially as shown.

76,489. RADIOCABINET. ISAAC ARYNSAN LUND, Chicago, Ill. Filed June 15, 1928. Serial No. 27,139. Term of patent 3½ years.



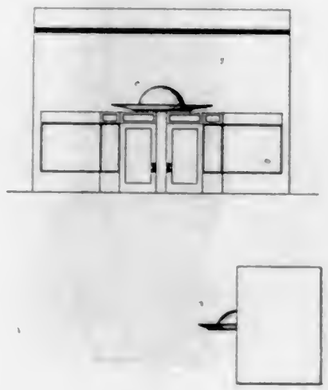
The ornamental design for a radiocabinet substantially as shown.

76,490. COMBINED TOOTHPICK AND DENTAL FLOSS HOLDER. ERNEST THEODORE LUTZ, New York, N. Y. Filed June 9, 1928. Serial No. 27,062. Term of patent 14 years.



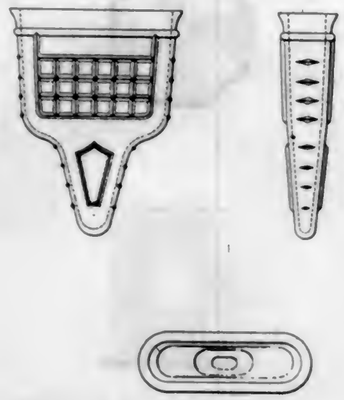
The ornamental design for a combined toothpick and dental floss holder, as shown.

76,491. BUILDING FRONT. FRED R. MERRILL, Miles City, Mont. Filed June 1, 1927. Serial No. 22,277. Term of patent 7 years.



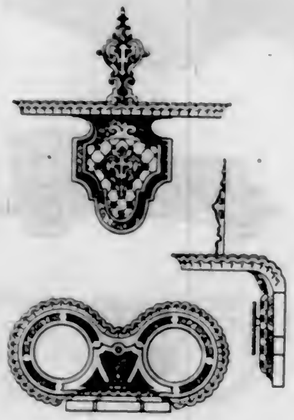
The ornamental design for a building front, as shown.

76,492. ARTICLE OF PASTRY. JACOB NOTKIN, Roxbury, Mass. Filed June 11, 1928. Serial No. 27,078. Term of patent 7 years.



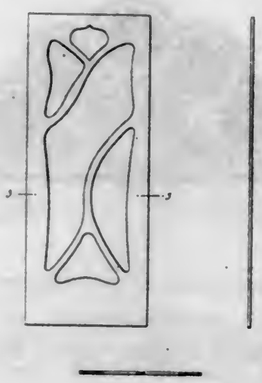
The ornamental design for an article of pastry substantially as shown.

76,493. LIGHTING FIXTURE. ALBERT J. D. OHM, Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1928. Serial No. 25,569. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

76,494. DOOR. JAMES A. PIETSCH, St. George, N. Y. Filed May 29, 1928. Serial No. 26,900. Term of patent 14 years.



The ornamental design for a door substantially as shown.

76,495. STOCKING. JACOB A. PHILLIPS, Glen Ridge, N. J. Filed May 17, 1928. Serial No. 26,716. Term of patent 7 years.



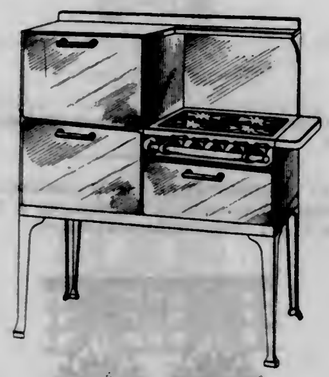
The ornamental design for a stocking, as shown.

76,496. STOCKING. JACOB A. PHILLIPS, Glen Ridge, N. J. Filed May 17, 1928. Serial No. 26,718. Term of patent 7 years.



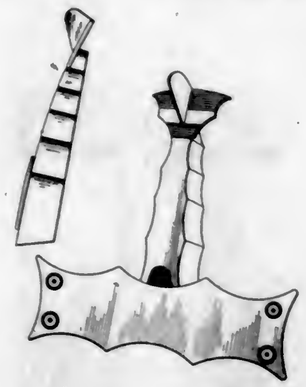
The ornamental design for a stocking, as shown.

76,497. GAS RANGE. MINARD A. POSSONS, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Mar. 18, 1927. Serial No. 21,198. Term of patent 14 years.



The ornamental design for a gas range as shown and described.

76,498. ADVERTISING SIGN. GUY DU PRIEST, Austin, Tex., assignor to Josephine Nolen, Austin, Tex. Filed Jan. 11, 1928. Serial No. 24,816. Term of patent 14 years.



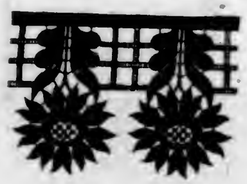
The ornamental design for an advertising sign as shown.

76,499. SPOON OR ANALOGOUS ARTICLE. ALBERT PRINZ, Wald, Germany. Filed June 3, 1927. Serial No. 22,302. Term of patent 7 years.



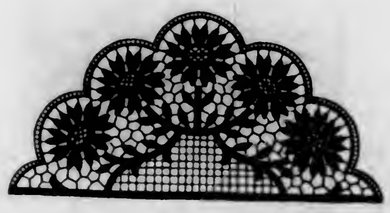
The ornamental design for a spoon or analogous article as shown.

76,500. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed July 9, 1928. Serial No. 27,417. Term of patent 3½ years.



The ornamental design for embroidered lace edging, as shown.

76,501. EMBROIDERED LACE MEDALLION. HENRY SCHWARBER, Weehawken, N. J. Filed Aug. 8, 1928. Serial No. 27,740. Term of patent 3½ years.



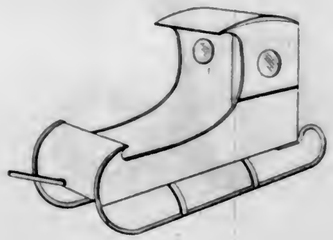
The ornamental design for embroidered lace medallion, as shown.

76,502. TEXTILE FABRIC. ARTHUR SOLOMON, New York, N. Y. Filed July 17, 1928. Serial No. 27,510. Term of patent 3½ years.



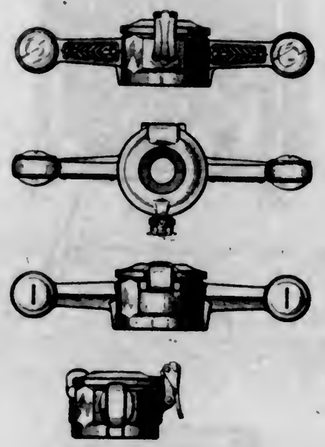
The ornamental design for a textile fabric as shown.

76,503. CHILD'S VEHICLE. JOSEPH J. TISCHLER and WENDELIN A. TISCHLER, St. Paul, Minn. Filed Feb. 2, 1928. Serial No. 25,140. Term of patent 7 years.



The ornamental design for a child's vehicle, as shown.

76,504. RADIATOR CAP. GEORGE H. TOWNSEND, Greenwich, Conn., assignor, by mesne assignments, to The Kingsley-Miller Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1925. Serial No. 14,292. Term of patent 3½ years.



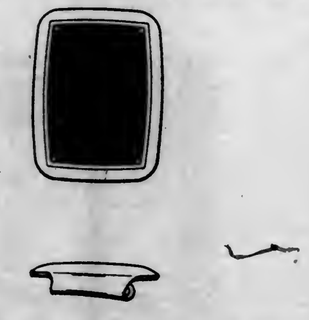
The ornamental design for a radiator cap as shown.

76,505. SCALE CASING. NORMAN TATHAM, Los Angeles, Calif. Filed May 28, 1928. Serial No. 26,892. Term of patent 7 years.



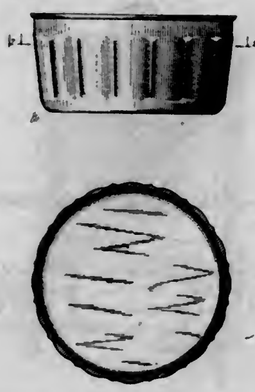
The ornamental design for a scale-casing, as shown.

76,506. BELT BUCKLE. HAROLD C. VAISEY, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed July 11, 1928. Serial No. 27,457. Term of patent 3½ years.



The ornamental design for a belt buckle, as shown.

76,507. PAN OR THE LIKE. ANTOINE VERICEL, Baldwin, N. Y., assignor to Doehler Die-Casting Co., a Corporation of New York. Filed May 23, 1928. Serial No. 26,825. Term of patent 3½ years.



The ornamental design for a pan or the like as shown.

76,508. BADGE. LOUIS M. VOIVOD, Warren, Ohio. Filed Nov. 4, 1927. Serial No. 24,002. Term of patent 7 years.



The ornamental design for a badge as shown.

76,509. LIGHTING STANDARD. RALPH WAGGONER, Los Angeles, Calif. Filed Mar. 24, 1928. Serial No. 25,999. Term of patent 14 years.



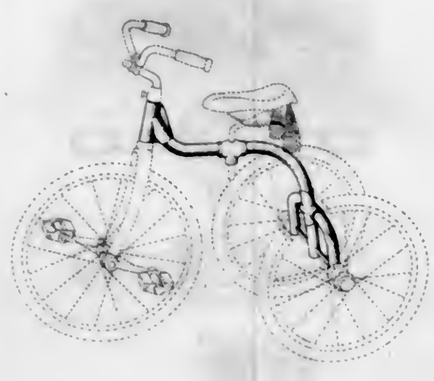
The ornamental design for a lighting standard substantially as shown.

76,510. BRACELET CHAIN OR SIMILAR ARTICLE. NICHOLAS D. WHALEN, Attleboro, Mass., assignor to Eugene C. Healy, doing business as J. T. Healy & Son, Attleboro, Mass. Filed Jan. 12, 1928. Serial No. 24,841. Term of patent 3½ years.



The ornamental design for a bracelet chain or similar article, as shown.

76,511. FRAME FOR A VELOCIPEDE. GEORGE N. WOLFE, Washington, Pa., assignor to Sidway-Topliff Company, Washington, Pa. Filed June 30, 1927. Serial No. 22,626. Term of patent 14 years.



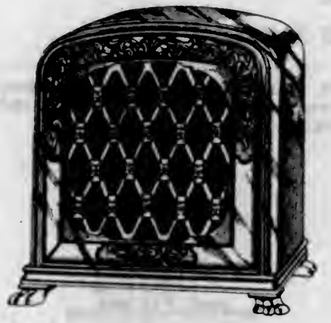
The ornamental design for a frame for a velocipede, as shown.

76,512. RADIOCABINET. EVERETT WORTHINGTON, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed June 2, 1928. Serial No. 26,973. Term of patent 14 years.



The ornamental design for a radiocabinet as shown.

76,513. LOUD-SPEAKER CABINET. EVERETT WORTHINGTON, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed June 8, 1928. Serial No. 27,042. Term of patent 14 years.



The ornamental design for a loud speaker cabinet as shown.

76,514. RADIOCABINET. EVERETT WORTHINGTON, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed June 13, 1928. Serial No. 27,113. Term of patent 14 years.





The ornamental design for a radiocabinet as shown.

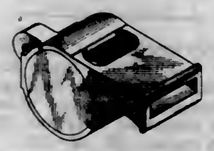
76,515. RADIOCABINET. EVERETT WORTHINGTON, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed June 16, 1928. Serial No. 27,170. Term of patent 14 years.





The ornamental design for a radiocabinet as shown.

76,516. WHISTLE. GEORGE J. ZISCH, Newark, N. J. Filed May 18, 1927. Serial No. 22,042. Term of patent 7 years.

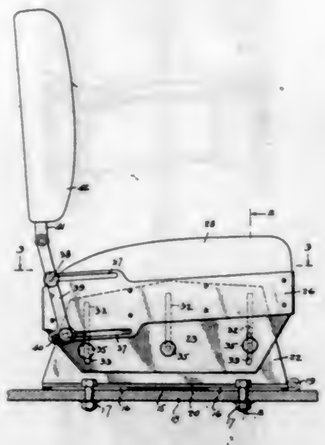


The ornamental design for a whistle, as shown.

PATENTS

GRANTED OCTOBER 2, 1928.

1,685,770. ADJUSTABLE VEHICLE SEAT. RICHARD E. BOWEN, Los Angeles, Calif. Filed July 6, 1926. Serial No. 120,823. 5 Claims. (Cl. 155—14.)



1. A vehicle seat comprising a seat frame, strips within and at the sides of the frame, bars secured within the frame and in spaced relation to said strips to provide slots between the two, a seat supported in the frame between the bars, a supporting frame for the seat frame comprising plates secured to said strips and other plates associated with the first members, and extending into said slots, means for adjustably connecting the first and second said plates to permit vertical adjustment of the seat frame, and a seat back supported on the sides of the seat frame.

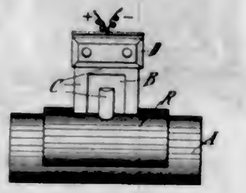
1,685,771. CYANO NITRATE EXPLOSIVE AND PROCESS OF PRODUCING THE SAME. FRANK H. BERGEIM, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 15, 1927. Serial No. 219,817. 9 Claims. (Cl. 260—144.)

1. An explosive compound containing a cyano group and a nitrate group.

1,685,772. REDUCTION OF SULPHATE MINERALS AND BRIQUETTES THEREFOR. JAMES ELIOT BOOGE and JOSEPH P. KOLLER, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 10, 1924. Serial No. 749,024. 5 Claims. (Cl. 23—137.)

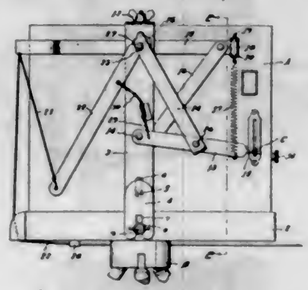
3. As a new article, powdered sulphate ore containing more than 4% of silica and held together in the form of substantially non-porous tablets or briquettes by a suitable binder, which depends upon its coking properties for its binding action.

1,685,773. HAIR-CURLING DEVICE. ANTOINE CIERPLIKOWSKI, Paris, France. Filed Dec. 6, 1927. Serial No. 238,055. 2 Claims. (Cl. 132—36.)



1. A heating device for treating the hair comprising a plurality of electrically heated elements and a curved blade spring connected to said elements and adapted to force them towards each other.

1,685,774. SHUTTER-OPERATING ATTACHMENT FOR CAMERAS. AMEDEE DE LAND, River Rouge, Mich. Filed Nov. 5, 1927. Serial No. 231,369. 8 Claims. (Cl. 95—53.)

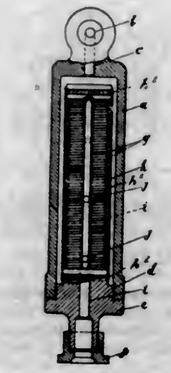


1. An attachment for cameras including a base frame to receive the camera box, a strap embracing the camera box and detachably attached to the base frame for holding the box within the frame and lever mechanism carried by said strap for operating the camera shutter.

1,685,775. APPARATUS FOR FILTERING SOLUTIONS USED IN THE MANUFACTURE OF ARTIFICAL SILK AND THE LIKE. WILLIAM PORTER DREAPER, Hempstead Heath, London, England. Filed June 2, 1923, Serial No. 643,124, and in Great Britain June 22, 1922. 1 Claim. (Cl. 210—164.)

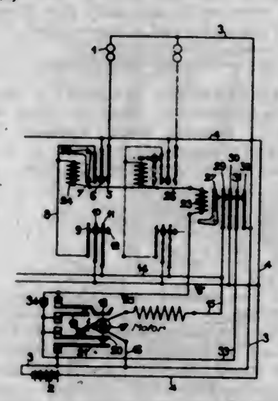
A filter for use in the manufacture of artificial silk having in combination a removable casing, a swivel connection integral therewith, a filtering member within said casing being secured thereto at one end, a central duct in said filtering member terminating at the base, a spinning jet in

direct communication with said central duct, a plurality of transverse vents in said filtering member, a circumferential groove formed at the respective ends of said



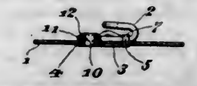
filtering member, and a textile fabric surrounding said filtering member, being secured at each end around the circumferential grooves.

1,685,776. ELECTRIC SIGNALING APPARATUS. FRANÇOIS FAVARGER, Neuchatel, Switzerland, assignor, by mesne assignments, to National Teleregister Corporation, New York N. Y., a Corporation of Delaware. Filed Oct. 31, 1924, Serial No. 747,140, and in Switzerland Nov. 12, 1823. Renewed Sept. 23, 1927. 5 Claims. (Cl. 177—380.)



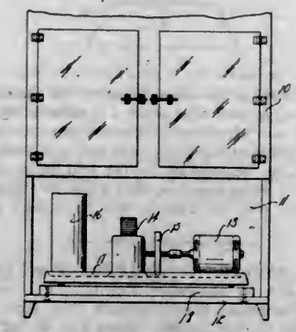
1. A signal transmitting apparatus, comprising a source of electrical current, a motor in electrical connection with said source, a pair of relays connected in series with said source, a system of normally open contacts in the motor and relay circuits adapted to close said circuits and cause rotation of the motor, a normally open switch and a normally closed switch in the relay circuit, means carried by the motor for closing and thereafter opening said normally open switch and opening and closing said normally closed switch once during each revolution of the motor, a second circuit including said normally closed switch and connecting said relays in series with the source of current, a system of normally open contacts in said second circuit, and means operable by the relays for closing said contacts and causing current to continue to pass through the relays after the normally open switch has been opened and before the opening of the normally closed switch.

1,685,777. HOOK AND EYE. LEONARD GUTEKUNST, Philadelphia, Pa., assignor to The De Long Hook and Eye Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 15, 1926. Serial No. 116,191. 3 Claims. (Cl. 24—229.)



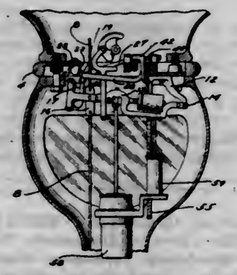
1. In a hook and eye tape structure, means for fastening garment hooks to tape including a metallic member having a surface extent, substantially equal to that of the shank portions of the hooks, which member is provided with projections which are adapted to engage the fastening eyes of a garment hook, and also having means adjacent its opposite end for engaging the shank portions of the said hooks.

1,685,778. RESILIENT SUPPORT. FRED J. HEIDEMAN, Detroit, Mich., assignor to T. C. Whitehead, Detroit, Mich. Filed Jan. 18, 1926. Serial No. 82,116. 1 Claim. (Cl. 248—16.)



A support having a base, a supplemental base detachably secured to said base having a plurality of spaced recesses therein, a third base constituting a support for mechanical refrigerating apparatus positioned substantially above the supplemental base and having a depending flange, members threadedly engaging said third base and extending downwardly therefrom terminating short of said supplemental base and concealed by said depending flange, and yieldable elements surrounding the members and engaging said recesses for yieldably supporting the third base spaced from the supplemental base.

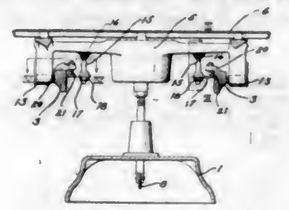
1,685,779. COIN-CONTROLLED WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed June 27, 1924. Serial No. 722,650. 11 Claims. (Cl. 194—56.)



1. In a weighing scale, in combination, weighing mechanism, and locking mechanism therefor, said locking mechanism having a member for preventing weighing movement of said weighing mechanism, releasable means for said

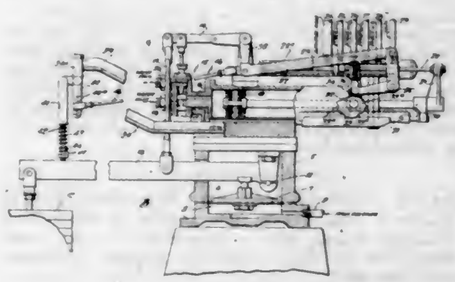
member comprising means adapted to be engaged by a coin or the like, and manually operable means engageable with said coin whereby said coin forms a necessary element of said releasing mechanism, said locking mechanism having an additional member for preventing movement of said weighing mechanism and releasing means for said additional member, said releasing means being operated by said manually operable means subsequently to engagement of said coin with said coin engaged means.

1,685,780. WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Mar. 11, 1925. Serial No. 14,771. 5 Claims. (Cl. 308—2.)



1. In a device of the class described, in combination, a member having a knife edge pivot, a member having a bearing engaging said pivot, and means for preventing derangement of said pivot and bearing, said means including a cone pivot carried by the member having said knife edge pivot, and means for adjusting said cone pivot to bring its apex into alignment with the apex of said knife edge pivot.

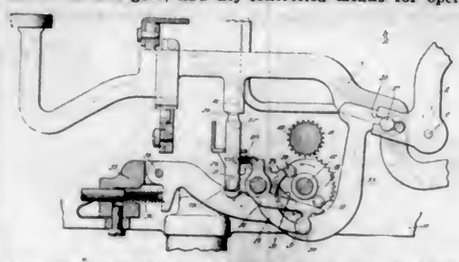
1,685,781. CONTROL APPARATUS FOR COMPRESSORS. LEON F. HOFFMAN, Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 8, 1927. Serial No. 166,624. 21 Claims. (Cl. 230—19.)



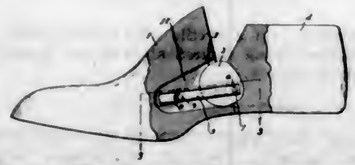
1. In a pump or compressor, the combination with a cylinder and a plurality of unloading devices arranged to unload the cylinder in whole or in part, of automatic regulating apparatus for controlling said unloading devices comprising a pilot valve controlled by receiver pressure, means for returning the pilot valve to neutral position after each movement, and means including a rotatable member for actuating said first-named means.

1,685,782. POWER-OPERATING MECHANISM FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Apr. 28, 1924. Serial No. 709,320. 10 Claims. (Cl. 197—17.)

1. In a typewriting machine, a type-bar actuating member, a toothed gear arranged to engage said member to impart movement thereto, a continuously rotating power-driven toothed gear, and key-controlled means for operatively connecting said gears to operate said type-bar actuating member, said gears having relatively fixed axes of rotation.

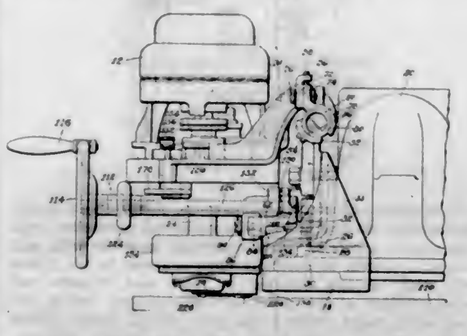


1,685,783. LAST. WALTER A. KRENTLER, Detroit, Mich., assignor to Krentler Arnold Hinge Last Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 24, 1927. Serial No. 221,830. 4 Claims. (Cl. 12—136.)



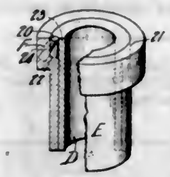
1. A connecting device for hinged lasts comprising a single non-flexible member having an opening adjacent one end to receive a pivot pin and a longitudinal slot intermediate its ends to receive a second pivot pin, and yielding means for yieldingly holding said member moved longitudinally with one of said pivot pins in engagement with the inner end of the slot in the member.

1,685,784. RESURFACING MACHINE. WILLIAM C. MEYER, deceased, Beverly, Mass., by Anne W. Meyer, administratrix, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 26, 1924. Serial No. 740,098. 13 Claims. (Cl. 164—34.)



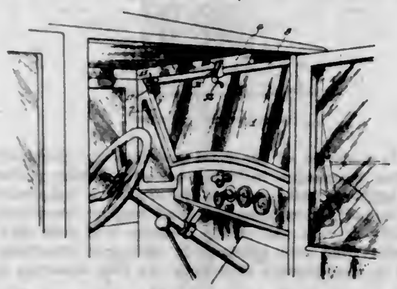
1. In an apparatus for resurfacing blocks, a bracket adapted for attachment to a support above a block, said bracket being provided with spaced supporting surfaces extending longitudinally of the bracket, a resurfacing machine having a frame provided with surfaces for engaging the spaced supporting surfaces on the bracket for sliding movement longitudinally of the latter, and means for securing the resurfacing machine in selected position during a resurfacing operation on any desired portion of the block.

1,685,785. LOCK MEANS. JOHN H. MUTH, Cleveland, Ohio, assignor to C. F. Heinkel, Cleveland, Ohio. Filed Oct. 30, 1924. Serial No. 746,750. 4 Claims. (Cl. 77—62.)



1. In a lock means, associable members to be locked to each other, a pin having one end thereof fixed in one of said members, the remainder of said pin partly embedded in said one member throughout the major portion of the length thereof, said pin disposed at an angle so that the end of said partly embedded portion projects further from the wall of said one member than the other portion thereof, and another one of said members to be locked to said one member having a groove arranged to engage both sides of said projecting portion of the pin so that either a longitudinal movement between the members in one direction creates a rotative movement between the members in one direction or a rotative movement between the members in one direction creates a longitudinal movement between the members in one direction to lock the members to each other both longitudinally and rotatively and so that a reversal of said movements automatically disengages the members from each other.

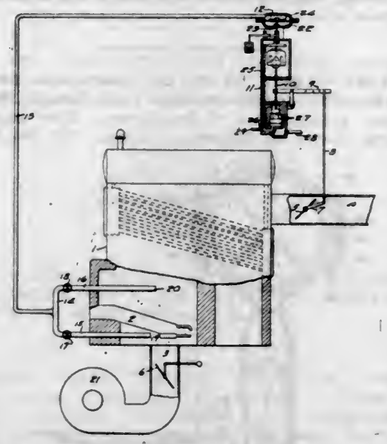
1,685,786. WORM-DRIVE WINDSHIELD REGULATOR. ALBERT T. POTTER, Detroit, Mich., assignor to Ainsworth Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed Feb. 4, 1927. Serial No. 165,798. 2 Claims. (Cl. 296—84.)



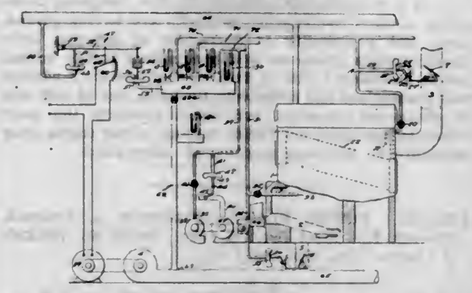
1. The combination with the frame of a vehicle body formed to receive and support a windshield, of a windshield panel pivotally supported at its ends between upwardly extending members of said body frame, and means for swinging said panel including a casing rigidly secured to the frame above and intermediate the ends of said panel, a member secured to the panel intermediate its ends and within said casing, said casing being formed with an opening to receive said member, a closure for said opening detachably secured to said casing, a shaft in said casing to operate said member, said shaft being inclined inwardly and downwardly from the support of said casing, and an operating handle on the inner end of said shaft for manually rotating the shaft, said handle being in substantially the horizontal plane of the upper portion of the panel.

1,685,787. REGULATION BY PROPORTIONATE PRESSURE AND APPARATUS THEREFOR. CHARLES H. SMOOT, Maplewood, N. J. Filed Dec. 16, 1926. Serial No. 155,231. 5 Claims. (Cl. 236—15.)

5. In systems for regulation by fluid pressure, means for maintaining constant a pressure intermediate two variable fluid pressures between which there is a flow of fluid, comprising in combination a flow regulator, means for creating a pressure corresponding to said intermediate pressure, a device responsive to a constant pressure and to said created pressure, and means for controlling said regulator by said device.

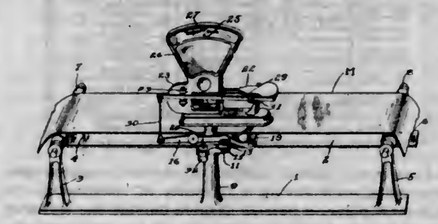


1,685,788. FURNACE REGULATION. CHARLES H. SMOOT, Maplewood, N. J. Filed Dec. 16, 1926. Serial No. 155,232. 8 Claims. (Cl. 236—15.)



7. A steam generating furnace including a blower and an inlet damper, a regulator for the damper and means for controlling said regulator in accordance with a desired intermediate between the pressure at a point in advance of the damper and at a point in the combustion chamber.

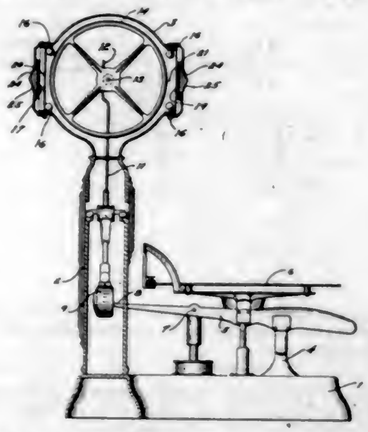
1,685,789. TESTING DEVICE. EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Apr. 28, 1921. Serial No. 465,134. 11 Claims. (Cl. 249—5.)



1. In a device of the class described, in combination, a pair of supports for a strip of material, and a predetermined weight weighing device adapted to be adjusted to

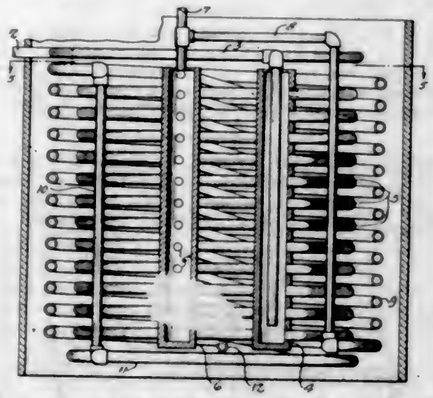
support a portion of such strip in the same plane as the portions engaging said pair of supports, whereby changes in the weight of said strip may be detected by said predetermined weighing device regardless of the condition of tautness of said strip.

1,685,790. WEIGHING SCALE. EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Sept. 13, 1924. Serial No. 737,598. 8 Claims. (Cl. 88—1.)



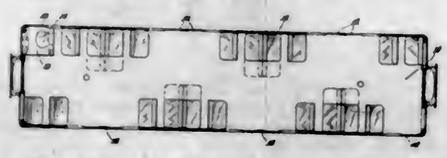
3. In a weighing scale, in combination, weighing mechanism, a chart co-operating therewith and having graduations and a plurality of characters of different color characteristics giving to said graduations unlike values, means including a pair of fixed color filters for rendering said graduations and selectively rendering one of said sets of characters readable, and means whereby the same points on the chart are visible through either screen from substantially the same position of observation.

1,685,791. POWER PLANT. FREDERICK A. TRINKLE, Harvey, Ill. Filed Dec. 20, 1924. Serial No. 757,226. 2 Claims. (Cl. 122—250.)



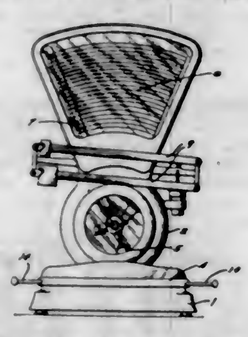
1. In a power plant, a series of vertically spaced generating coils, each having a plurality of convolutions in a horizontal plane, a pair of headers outside the series of coils and to which the opposite ends of the coils are connected at vertically spaced points along the headers, a preheating coil above the series of generating coils having a discharge pipe depending into one of the headers, a storage coil surrounding the series of generating coils in spaced relation and in connection at one end with the upper end of the other header, and a superheating coil below the series of generating coils and in connection with the other end of the storage coil.

1,685,792. RAILWAY CAR. JOHN T. WARREN, Brooklyn, N. Y. Filed Apr. 28, 1927. Serial No. 187,132. 12 Claims. (Cl. 105—345.)



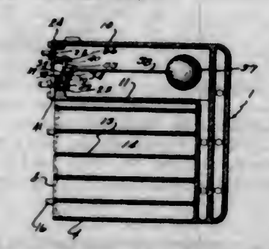
1. In a railway car, doors mounted in the sides thereof, each door in one side being offset with respect to each door of the other side, and a plurality of seats arranged on each side of the car opposite each door on the other side.

1,685,793. WEIGHING SCALE. LEWIS C. WETZEL, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Sept. 28, 1925. Serial No. 58,962. 5 Claims. (Cl. 265—36.)



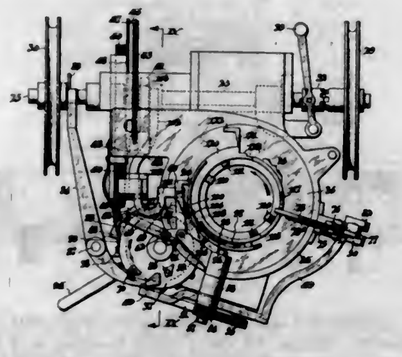
1. In a device of the class described, in combination, weighing mechanism including a load receiving platform, said platform being adapted to receive a supplemental load support, a supplemental load support comprising a plurality of rods and means whereby said rods may be extended from said platform in divergent directions to assist in supporting a load upon the load receiving platform.

1,685,794. BRINE TANK. THOMAS C. WHITEHEAD, Detroit, Mich. Filed Jan. 12, 1925. Serial No. 2,049. 10 Claims. (Cl. 62—95.)



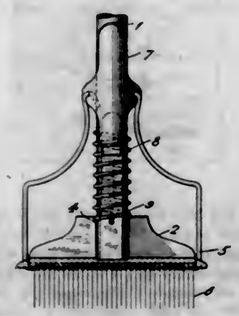
2. A brine tank having a chamber for ice molds, a chamber containing a refrigerating medium extending around and over the first chamber, and a chamber adapted to contain brine extending around the second chamber and embracing the same.

1,685,795. MECHANISM FOR UNITING KNITTED WEBS. LOUIS N. D. WILLIAMS, Ogontz, Pa., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Dec. 12, 1923. Serial No. 680,064. 35 Claims. (Cl. 112—27.)



1. In mechanism for uniting knitted webs, the combination of a web carrier comprising two members each with fabric loop-engaging points and one capable of being turned over upon the other, an element for engaging said turnable member, means for swinging said element about an axis to impart turning movement to said member, and means for moving said engaging element into and out of engagement with the turnable member.

1,685,796. MOPSTICK HEAD. JOSEPH WILMER WOHLHIETER, Irvington, N. J., assignor to Keystone Stamping Corporation, a Corporation of New Jersey. Filed Apr. 14, 1926. Serial No. 101,902. 5 Claims. (Cl. 15—152.)



1. A mop head comprising a body portion made up of parallel plates having opposed edges bent outwardly to form flanges, and a member cooperating with said flanges having a groove or channel extending throughout the length thereof and formed with side flanges which embrace the flanges on the body portion.

1,685,797. JELUTONG PRODUCT AND METHOD OF MAKING THE SAME. SHELDON S. YATES, Englewood, N. J., assignor to Chicle Development Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 24, 1927. Serial No. 221,859. 5 Claims. (Cl. 18—50.)

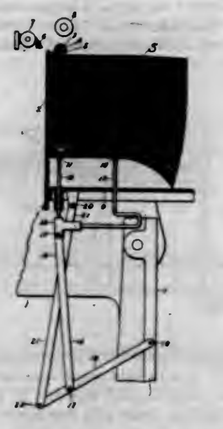
1. The method of producing a Jelutong product which consists in coagulating Jelutong latex, subjecting the coagulant to melting heat until the same is melted and the water is expelled so as to be substantially less than five per cent, pouring the melted mass into molds and permitting the same to cool.

1,685,798. CARTON FOR PLAYING CARDS. FRANK C. ARMSTRONG, Larchmont, N. Y. Filed Apr. 6, 1927. Serial No. 181,304. 9 Claims. (Cl. 229—27.)



1. A carton comprising four rectangular and parallel compartments, each of said compartments opening on a different side of said carton.

1,685,799. SHEET-FEEDING APPARATUS. JOSEPH W. BAKER, Philadelphia, Pa., assignor to Stokes and Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 28, 1925. Serial No. 5,208. 17 Claims. (Cl. 271—61.)

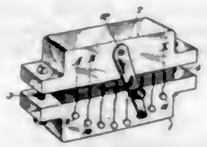


1. In the art of feeding sheets of ununiform thickness from the top of a stack thereof wherein the uniform arrangement of the sheets gives to the stack different heights in different vertically disposed regions, the step of supporting the stack when of considerable thickness at its bottom substantially solely in a region of minor stack height to effect at its top a predetermined feeding formation.

1,685,800. TREATMENT OF SULPHITE-WOOD-PULP LIQUOR. WEBSTER E. BYRON BAKER, York Haven, Pa. Filed Feb. 25, 1922. Serial. No. 539,285. 7 Claims. (Cl. 23—131.)

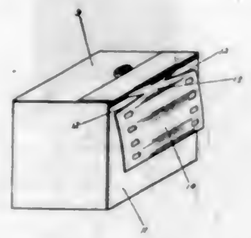
1. In the treatment of wood pulp liquor the process which consists in recovering from the sulphite waste liquor solids useful in the preparation of sulphite cooking liquor and containing principally sulphites insoluble in water by neutralizing the waste liquor with alkaline earth metal base sufficient to produce the degree of alkalinity expressed as pH—9 or greater alkalinity and sufficient to decompose the reversibly combined sulphurous acid present in combination with the substances dissolved from the wood to increase the recovery of the sulphur as monosulphite, and in the preparation of cooking liquor, treating the solids with cooking acid which contains free sulphurous acid for the conversion of the solids into soluble bisulphites.

1,685,801. CURRENT-CONTROLLING DEVICE. WILLIAM R. BALLARD, New Rochelle, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 2, 1924, Serial No. 753,522, and in Japan Oct. 6, 1924. 4 Claims. (Cl. 201—48.)



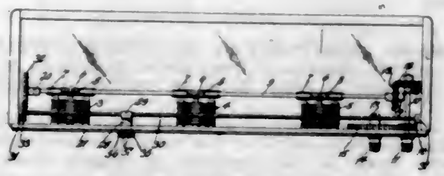
1. In a resistance device, the combination with a plurality of sheets of resistance material of a plurality of separate, spaced conductors lying transversely between adjacent sheets, the conductors between any two sheets being substantially directly above and below the conductors between the adjacent sheets, means to clamp together all of the said sheets, and a plurality of terminals each of which serves to terminate all of the conductors similarly located between the adjacent sheets.

1,685,802. FILM PACKAGE. CARL BORNMANN, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Apr. 8, 1927. Serial No. 182,122. 2 Claims. (Cl. 206—52.)



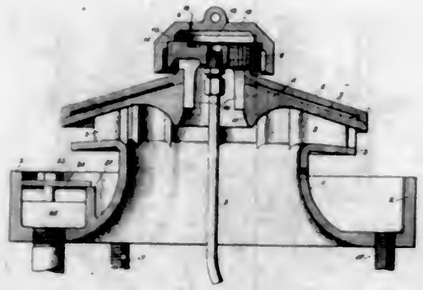
1. A film package comprising a receptacle having a roll of film therein, a slot in said receptacle through which an end of said film extends, and recesses in said film end at the point of projection from said receptacle.

1,685,803. LOGGING AND INDICATING DEVICE FOR RADIO RECEIVING SETS. ROBERT C. BOWER, St. Louis, Mo. Filed June 4, 1926. Serial No. 113,628. 5 Claims. (Cl. 175—41.5.)



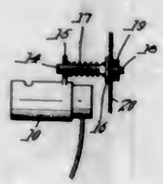
1. In a device of the class described, the combination of a case with a plurality of rotary variable condensers, a common shaft for operating the shafts of the variable condensers, actuators for operating said common shaft at different speeds, a longitudinally movable indicator, a stationary chart carried by one wall of the case cooperating with said indicator, and gear connections between said common shaft and said indicator whereby the adjustment of the variable condensers is indicated.

1,685,804. LIQUID-FUEL BURNER. CHARLES B. BUERGER, Pittsburgh, Pa., assignor to Gulf Oil Burner Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 17, 1926. Serial No. 129,826. 4 Claims. (Cl. 158—91.)



2. A liquid fuel burner comprising a base provided with an interior passage for air, a cover overlying said base and spaced therefrom so that air from said passage is directed laterally between the top of the base and the cover, a burner plate supported on said cover in spaced relation therewith, the said cover and the said burner plate provided with passages registering with the air passage of said base, a distributer for a liquid fuel supported above said burner plate in spaced relation whereby a part of the air from the passage of the base and from the passages of the cover and burner plate may flow over the burner plate under said distributer and means for supplying liquid fuel to said distributer.

1,685,805. LAMP-FOCUS-SECURING DEVICE. ISIDORE L. DUQUETTE, WILFRED J. PLASSE, and CHARLES A. MERRILL, Webster, Mass. Filed Dec. 12, 1927. Serial No. 239,332. 2 Claims. (Cl. 240—44.)

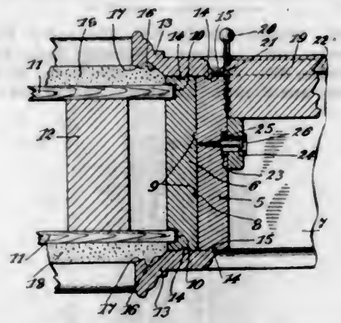


1. In a headlight, the combination with a lamp casing, a reflector, a lamp socket and a guide therefor, of a screw connected with the socket for moving the socket for adjustment relative to said reflector, a collar integrally mounted on the screw, a spring on the screw exerting opposite forces on the socket and collar to force the collar against the lamp casing, said screw having a left handed screw portion of reduced diameter on its end beyond the collar, projecting through the back of the casing, a nut on the left handed screw portion to prevent the adjusting screw from unscrewing, and means on said screw whereby same may be turned.

1,685,806. DOORFRAME. ALBERT ENTENMAN, Brooklyn, N. Y. Filed June 3, 1927. Serial No. 196,171. 8 Claims. (Cl. 20—11.)

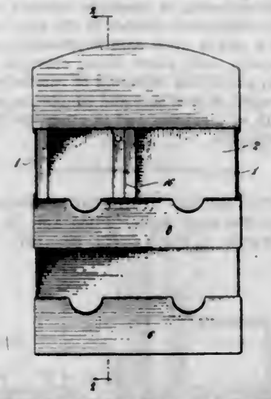
1. A unitary door frame having opposite sides each consisting of two parts having tongue and groove connection with each other, trim strips having tongue and groove connections with the opposite edges of each of said

parts, the outer side parts of the frame being provided in their outer faces with longitudinally extending grooves adapted to receive the ends of building wall laths, and



said trim strips being provided with longitudinally extending grooves to receive the wall plaster and form an interlocking connection therewith.

1,685,807. SHEET-METAL DISPLAY STAND. HENRY A. FERN, New York, N. Y., assignor to The Sweets Company of America, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 4, 1927. Serial No. 223,882. 2 Claims. (Cl. 211—126.)



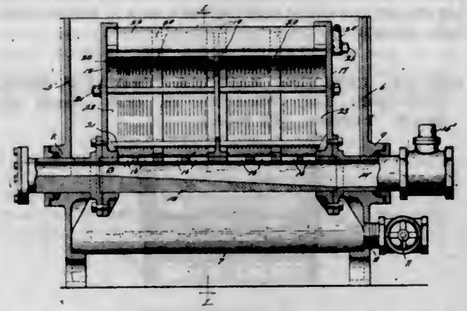
1. A display stand for packages and the like comprising substantially vertical side walls, means rigidly connecting said side walls comprising a plurality of inclined trays having side flanges fixed to the walls, a base plate for each tray extending at right angles to the latter and having end flanges turned over upon the side walls and secured thereto by tongue and slot connections, a cap plate having substantially the same inclination as the trays, as and for the purpose described and a hinged cover member extending rearwardly of the cap plate and at right angles thereto.

1,685,808. COTTON-PICKER'S CUFF. WILLIAM C. FRENCH, Burkburnett, Tex. Filed June 28, 1926. Serial No. 118,023. 1 Claim. (Cl. 224—28.)

A cotton picker's cuff to be attached to the hand and form a pocket at the base of the palm, the same comprising an elongated flat body of flexible material having opposite ends outwardly curved, its rear edge concave and its forward edge formed on a compound curve, and having openings adjacent its forward corners, lacings engaging the openings and adapted to receive the thumb and the little finger of the hand, respectively, and having a forward extension at one corner to lie against the side of the hand adjacent the little finger, a strap attached to the body adjacent the rear corner diagonally opposite the said forward extension and separable fastenings having elements along the length of the strap and on the back of the body, the latter elements extending in a diagonal line from the rear corners opposite the strap.



1,685,809. PAPER AND PULP SCREENING MACHINE. EDWARD B. FRITZ, Chicago, Ill. Filed Jan. 20, 1928. Serial No. 248,050. 11 Claims. (Cl. 92—29.)



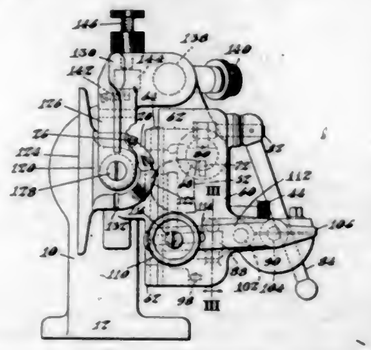
2. In a screening device a primary tank having its top open, and an outlet at the bottom thereof; operatively assembled in said tank a chamber fixedly mounted upon a shaft journalled in the walls of said tank; said chamber having circular wall forms containing vertically spaced-apart slots in rows adjacent one another; said mounted chamber having means associated therewith for a measured reciprocatory movement.

1,685,810. METHOD OF AND APPARATUS FOR RENDERING VISIBLE OSCILLATIONS OF PIEZO-ELECTRICAL CRYSTALS. ERICH GIEBE and ADOLF SCHEIBE, Berlin, Germany. Filed June 8, 1926, Serial No. 114,567, and in Germany May 15, 1925. 5 Claims. (Cl. 250—39.)



1. The method of rendering visible elastical oscillations of a piezo-electric crystal, which consists in producing a luminous effect by the piezo-electric voltages, which are caused by the deformations of said crystal, when subjected to said elastical oscillations.

1,685,811. TOP-LIFT-TRIMMING MACHINE. JOSEPH GOULDBOURN and REGINALD BOYD WOODCOCK, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 25, 1927, Serial No. 215,478, and in Great Britain Sept. 30, 1926. 20 Claims. (Cl. 12—88.)



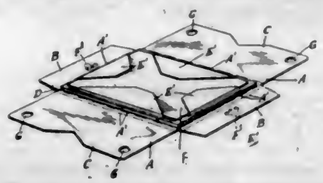
1. A top-lift-trimming machine comprising two relatively adjustable units one of which includes a rotary cutter arranged to trim the contour of a top lift attached to a heel, and the other of which includes a tread-rest for the top lift and a cutter arranged to bevel the edge of the tread face of the top lift, said units being relatively adjustable to locate the edge of the attaching face of the top lift and one end of said contour cutter in substantially flush relation.

1,685,812. CLEANING MACHINE. CHARLES F. GREGG, Indianapolis, Ind. Filed Oct. 28, 1925. Serial No. 65,314. 6 Claims. (Cl. 8—8.)



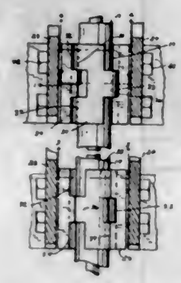
1. In a dry cleaning machine the combination with a cleaning fluid tank, of a container for the goods to be cleaned having a foraminous bottom, a foraminous adjustable clamping member adjustable in said container relatively to the bottom and constructed to clamp the goods in said container between the clamping member and the bottom irrespective of the quantity of goods placed in the container and means for reciprocating said container with the clamped goods into and out of the liquid contained in said tank.

1,685,813. MAILING WRAPPER FOR PHOTOGRAPHS. HERMAN L. GREVE, Brooklyn, N. Y. Filed July 16, 1927. Serial No. 206,225. 4 Claims. (Cl. 229—87.)



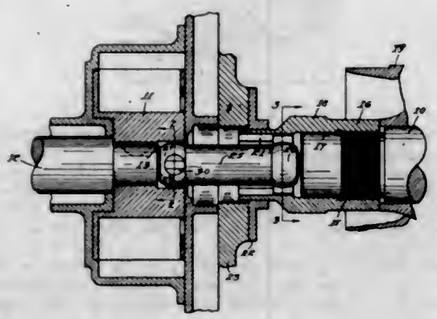
1. A mailing wrapper comprising a casing, a stiff plate portion, a thin flexible sheet having flaps of less length than said plate and secured thereto at the centre only, to permit the ends and sides of said sheet to be folded over toward each other to embrace all of the edges of a card of less length and width than that of said plate.

1,685,814. OUTBOARD MOTOR. HERBERT J. HILLBORN, Milwaukee, Wis., assignor to Evinrude Motor Company, Milwaukee, Wis. Filed Mar. 26, 1923, Serial No. 627,664. Renewed Apr. 2, 1928. 7 Claims. (Cl. 115—18.)



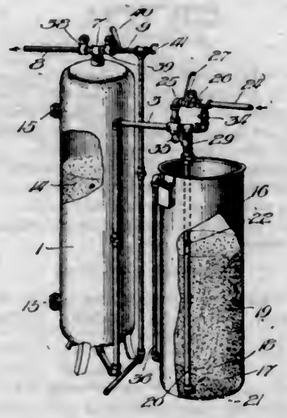
1. An outboard motor including the combination with the submerged portions thereof and a supporting member for said portions rotatable for steering and reversing said motor and oscillatable with said submerged portions about a transverse axis above the water line; of an interlocking device comprising a relatively fixed block having a bore extending therethrough, a passage opening rearwardly from said bore and lateral notches in the side walls of said passage; and a sleeve upon said supporting member and movable therewith, said sleeve being provided with staggered, laterally projecting segments of combined diameters substantially equal to said bore and adapted in one position to register with said notches and in other positions to fail to register therewith.

1,685,815. UNIVERSAL COUPLING. IRVING C. JENNINGS, South Norwalk, Conn. Filed Apr. 13, 1926. Serial No. 101,829. 1 Claim. (Cl. 64—107.)



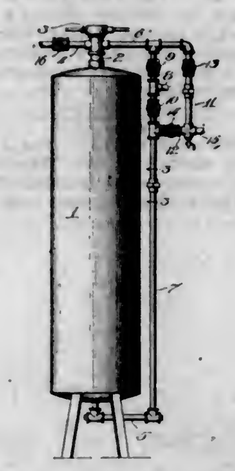
A universal coupling for adjacent rotatable members comprising a sleeve secured upon and extending beyond the end of one of said members to form the circumferential wall of an axial recess and having opposed longitudinally disposed slots in said circumferential wall, said sleeve having its free end extending through a sealing member, of a casing in which said second rotatable member is mounted, and said second member also having an axial slotted recess, and a coupling member having cross pins seated in said slots and connecting said rotatable members, said sleeve having a nut shaped outer portion and a threaded inner portion engageable with said first member, whereby said sleeve may be rotated and moved axially of the coupling member.

1,685,816. WATER-SOFTENING APPARATUS. WILLIAM J. KENNEY, Chicago, Ill., assignor to Zeolite Engineering Co., a Corporation of Illinois. Filed July 2, 1924. Serial No. 723,707. 5 Claims. (Cl. 10—24.)



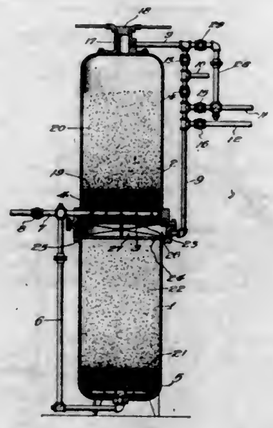
1. In combination, a treating reservoir, a brine tank, a siphon pipe having its inlet end arranged in and terminating a considerable distance above the bottom of the tank so as to be open to atmosphere when the liquid level in the tank falls to a predetermined point, a water pipe connected to the outlet end of the siphon pipe and to the reservoir, and means associated with said water pipe to produce a suction in said siphon pipe.

1,685,817. WATER SOFTENER. WILLIAM J. KENNEY, Chicago, Ill., assignor to Zeolite Engineering Co., a Corporation of Illinois. Filed Mar. 11, 1926. Serial No. 93,899. 1 Claim. (Cl. 210—24.)



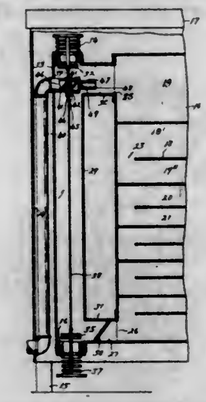
In an apparatus of the character described, a reservoir having an outlet and an inlet, a conduit connecting the outlet and the inlet, a service pipe connected to the outlet, a supply pipe connected to said conduit, manual valves in said conduit on opposite sides of the connection with the supply pipe, said conduit having a section at a point between the outlet and the nearest valve in the form of a passage of very small cross-sectional area, and there being in the conduit between said inlet and the nearest valve a section having the shape of a Venturi tube.

1,685,818. COMBINED FILTER AND UPFLOW WATER SOFTENER. WILLIAM J. KENNEY, Chicago, Ill. Filed May 21, 1927. Serial No. 193,100. 4 Claims. (Cl. 210—24.)



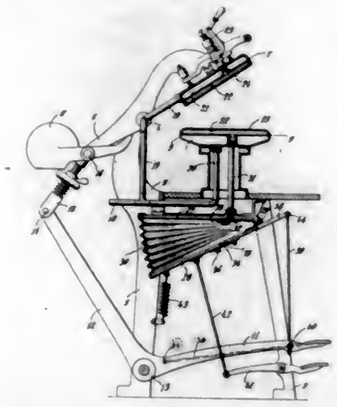
1. In an apparatus of the character described, a tank divided into an upper chamber and an independent lower chamber, a bed of zeolitic material in one of said chambers and a filtering bed in the other chamber, and means for causing water to flow through the chamber containing the filtering bed and then through the chamber containing the zeolitic material, and means for permitting salt to be introduced into the chamber containing the filtering bed whereby brine is formed and filtered before entering the other chamber.

1,685,819. SAFETY DEVICE FOR GAS-RADIATOR SYSTEMS. ELMER E. LEDBETTER, Detroit, Mich., assignor to The Ever Hot Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 11, 1927. Serial No. 182,846. 9 Claims. (Cl. 126—91.)



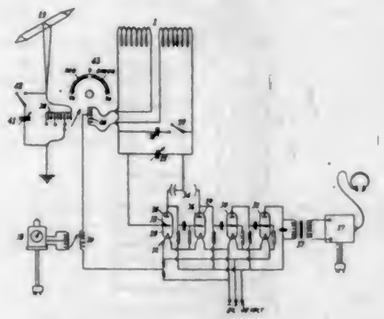
1. In an internal combustion radiator heating system, the combination with a combustion chamber having a fuel inlet and an air inlet, of means for forcibly withdrawing the products of combustion through the combustion chamber, and means operable upon a predetermined lessening of the circulation through said combustion chamber for automatically closing said air inlet.

1,685,820. GARMENT PRESS. JAMES C. LEBBETTER, Brooklyn, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 26, 1923. Serial No. 671,123. 5 Claims. (Cl. 68—9.)



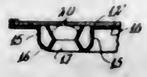
1. A garment press comprising in combination, co-operating press jaws at least one of which has an air chamber provided with a perforated pressing surface, an air pump connected with the chamber, operating means to open and close the press, an operating device connected with the pump to work the pump independently of the press operating means to force air through the chamber when the press jaws are stationary, and means for connecting the pump with the press operating means by which said pump may be driven simultaneously with the opening and closing of the press.

1,685,821. DIRECTION FINDER. AUGUST LEIB, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Apr. 29, 1924, Serial No. 709,819, and in Germany Apr. 19, 1923. 14 Claims. (Cl. 250—11.)



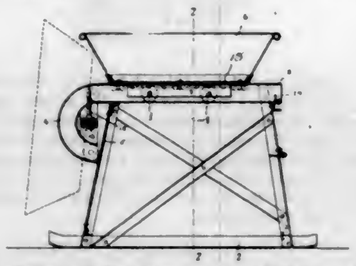
13. The method of radio direction finding with a loop aerial of appreciable width in which out of phase currents are caused by a distorted wave front which consists in, tuning the loop aerial to the desired wave length, supplying energy from an auxiliary non-directional aerial while in an untuned condition and transferring a component of said energy to said loop circuit so that the current in said loop circuit will be zero when its magnetic axis points at the station to be received.

1,685,822. ILLUMINATED SIGN. EUGENE LOWINGER, New York, N. Y. Filed Aug. 23, 1927. Serial No. 214,856. 2 Claims. (Cl. 40—133.)



1. A sign unit, comprising a frame plate, means for retaining a transparent pane on the rear side thereof, a character cut out of the frame, a flange projecting from the front of the frame plate and extended along the edge of the cut-out character, converging marginal elements extending from opposite sides of the front of the said flange to a plane intermediate the front of the flange and the rear of the frame plate, and diverging wall elements extending from the ends of the converging marginal elements to the rear of the frame plate.

1,685,823. SCREEN. ALFRED MAYER, Duluth, Minn. Filed Mar. 5, 1927. Serial No. 172,938. 3 Claims. (Cl. 209—260.)



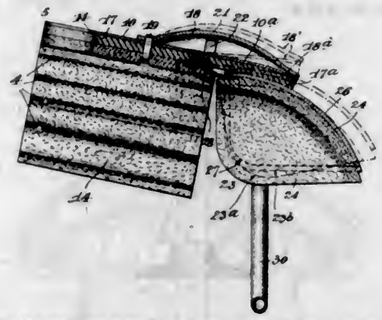
1. A device of the character described comprising in combination an upright fabricated structure, a horizontally disposed track traversing the upper portion of the structure, said track comprising spaced channel irons facing each other one end of same terminating downwardly and arcuately towards the structure forming a dumping portion of the track, a screening hopper reciprocally mounted within the track and selectively operable within either the horizontal portion thereof for screening purposes or the dumping portion thereof.

1,685,824. ARTIFICIAL LARYNX. ELMER I. MCKESSON, Toledo, Ohio, assignor to The Vocophone Company, Toledo, Ohio, a Corporation of Ohio. Filed June 24, 1926. Serial No. 118,180. 7 Claims. (Cl. 181—1.)



1. An air current audible noise producer comprising a diaphragm mounting means providing concave seats, and a diaphragm distended over said seats.

1,685,825. SHOULDER PAD. ROBERT THOMAS MULLINS, Brooklyn, N. Y., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Nov. 1, 1926. Serial No. 145,453. 4 Claims. (Cl. 2—2.)



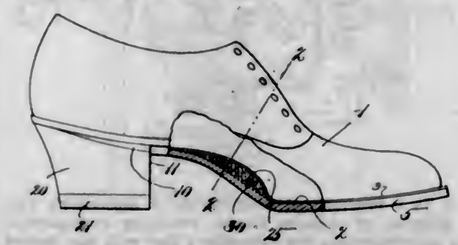
1. In a shoulder guard, the combination of a main over-shoulder portion, and an off-shoulder extension including a resilient cushion extended from the first mentioned portion, a substantially stiff but resilient epaulette overlying such extension, and a shoulder cap underlying said extension and hingedly connected to the first-mentioned portion.

1,685,826. GOLF CLUB. JOHN J. RADEL, Newark, N. J. Filed Feb. 21, 1927. Serial No. 169,739. 1 Claim. (Cl. 273—77.)



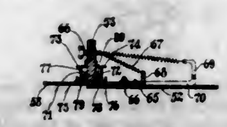
A golf-club comprising an open inverted V-shaped member providing oppositely presented flat inclined striking faces symmetrical to the vertical axis of said member and of equal angular pitch, and a socketed handle shank receiving portion integrally connected with and extending upwardly from one end of said member.

1,685,827. METHOD OF MAKING BOOTS AND SHOES. WILLIAM SAKLAD, Boston, Mass. Filed Oct. 12, 1925. Serial No. 61,952. 2 Claims. (Cl. 12—142.)



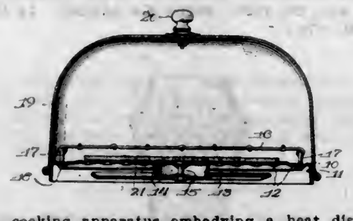
1. The improved method of making boots and shoes, which consists in providing a last with a disalined portion at the heel breast to provide for raising the outsole at said disalined position in the completed shoe, assembling upper and insole materials on a last, lasting the shoe, applying the outsole, beating the outsole in said disalined portion at the inner shank part adjacent the heel breast from a normal horizontal position, applying a corrective wedge member from the heel breast portion rearwardly and centrally of the heel seat to offset said disalined outsole, said wedge member being of greatest thickness at the heel breast and where exposed at the forward part of the heel, tapering rearwardly and centrally of the heel seat, and thereupon applying the heel and finishing the shoe in the said usual manner.

1,685,828. ORE-GRADING MACHINE. VICENTE SANCHEZ, Ponemah, Ill. Filed Nov. 11, 1927. Serial No. 232,555. 3 Claims. (Cl. 209—391.)



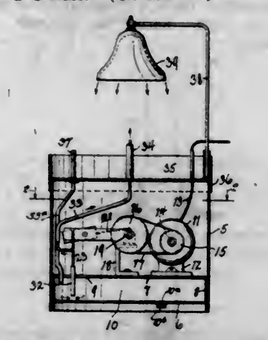
1. In a device of the class described, a screen, a shutter adapted for manual operation, and extended member hinged to the inner edge of the shutter, and a means for elevating said member when the shutter is projected over the screen.

1,685,829. COOKING APPARATUS. STANLEY SAUVAGE, Chicago, Ill. Filed Oct. 29, 1927. Serial No. 229,570. 4 Claims. (Cl. 53—6.)



1. A cooking apparatus embodying a heat distributor plate having a depending peripheral flange and provided with apertures throughout the area of the body of the plate, a hood adapted to be removably supported over the plate, and an independent sheet of heat non-conducting material adapted to be removably placed directly upon said plate to cover a portion of the apertures in the plate to form a closure therefor and for directing the heat towards the periphery of the plate.

1,685,830. WATER FOUNTAIN. THEODORE SCHIDORSKI, New York, N. Y. Filed Dec. 13, 1926. Serial No. 154,609. 2 Claims. (Cl. 299—7.)



1. A portable fountain of the class described comprising a casing having a removable false bottom forming a liquid compartment with the bottom of said casing, a drainage outlet for said compartment, a motor and a pump driven from the motor mounted on said false bottom, said motor, pump and false bottom being removable as a unit, a removable liquid tank interfitting with the top of the casing and supported thereby, conduits connecting the intake of the pump with said liquid compartment and

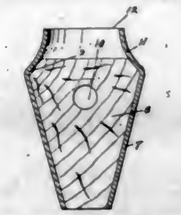
the outlet of the pump through the top of said water tank whereby the liquid may be forced in a jet above said tank, and a return conduit from the said liquid tank to the bottom compartment.

1,685,831. WINDOW FIXTURE. GILBERT E. ALPHIN, Mount Olive, N. C. Filed Mar. 17, 1927. Serial No. 176,158. 5 Claims. (Cl. 156—22.)



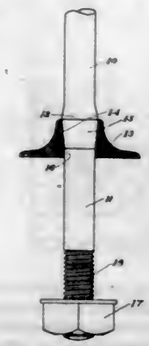
5. A shade roller supporting means comprising two brackets one of which is formed with an opening to receive the cylindrical journal at one end of the roller, the other bracket having a vertical slot closed at both ends for reception of the flat stub at the other end of the roller, and mounting means for said other bracket permitting turning thereof from a normal position in a vertical plane, to an inclined position when said flat stub is being inserted into or removed from said slot.

1,685,832. METHOD OF MAKING REENFORCED TUBULAR SPOKES. HERALD P. ARNT, Jackson, Mich. Filed Apr. 26, 1926. Serial No. 104,642. 14 Claims. (Cl. 29—174.)



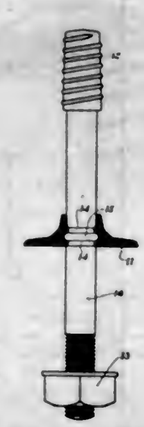
1. The method of making a reenforced tubular metal spoke which consists in forming a hollow quadrilateral nave end with portions of a pair of opposite sides converging, inserting a wedge-shaped filler, modifying the larger end of said nave end, and then welding thereto a tubular extension.

1,685,833. PROCESS OF MANUFACTURING INSULATOR PINS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 29, 1922. Serial No. 578,469. 4 Claims. (Cl. 29—155.5.)



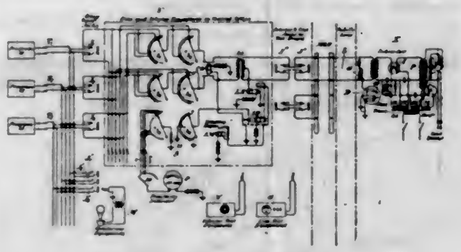
1. The process of manufacturing insulator pins comprising the steps of upsetting a metal bar between its ends to produce an enlargement thereon, separately forming a supporting member and applying said member to said enlargement to form a support for said pin.

1,685,834. PROCESS OF MANUFACTURING INSULATOR PINS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 2, 1922. Serial No. 579,134. 6 Claims. (Cl. 29—155.5.)



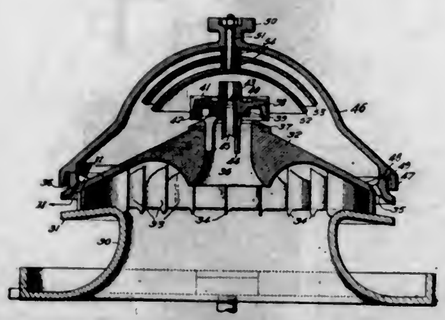
1. The process of manufacturing insulator pins, comprising the steps of deforming a bar to provide a projection thereon, placing on said bar in registration with said projection, a supporting member having an opening therein to receive said bar, and then pressing said supporting member to form the material thereof about said projection.

1,685,835. PROGRAM-SELECTING ARRANGEMENT. HENRY M. BASCOM, Brooklyn, OSCAR M. ARNOLD, Leonia, and ROBERT L. PENTLAND, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 22, 1925. Serial No. 77,116. 4 Claims. (Cl. 179—1.)



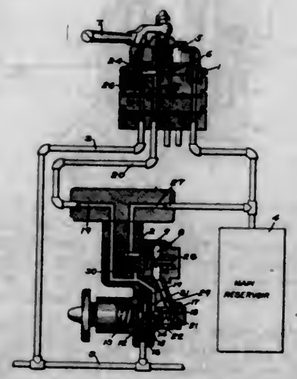
1. In a program selecting system, a subscriber's line, a plurality of program trunks, switching arrangements for interconnecting the subscriber's line with any desired trunk, means to control the operation of said switching apparatus, a subscriber's program receiving equipment associated with the line, a circuit extending from the subscriber's station over the line to said switch controlling means, means controllable at will by the subscriber over said circuit for restoring the switching apparatus to normal prior to the switching operation, and means controlled by the subscriber over said circuit for thereafter selectively operating the switching arrangement to select the desired trunk.

1,685,836. LIQUID-FUEL BURNER. CHARLES B. BUERGER, Pittsburgh, Pa., assignor to Gulf Oil Burner Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 13, 1926. Serial No. 122,187. 16 Claims. (Cl. 158—63.)



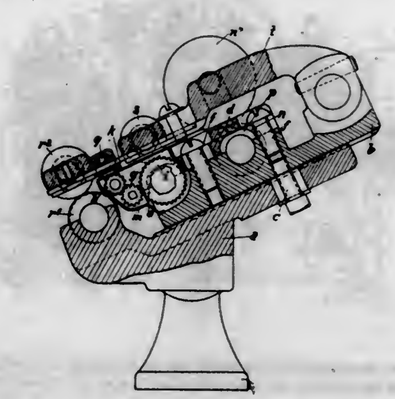
1. A liquid fuel burner comprising an upper compartment having openings formed therein adjacent the peripheral edge of the burner, a lower compartment having similar openings, the openings of the upper compartment overlying the openings of the lower compartment, and means for separately feeding liquid fuel and air to the upper compartment.

1,685,837. FEED-VALVE DEVICE. WILLIAM E. DEAN, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Dec. 18, 1926. Serial No. 155,733. 4 Claims. (Cl. 303—59.)



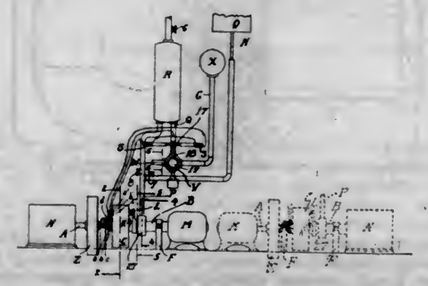
4. In a fluid pressure brake, the combination with a brake pipe, of a feed valve device comprising a supply portion for controlling the supply of fluid under pressure to the brake pipe, a regulating valve for controlling the venting of fluid from said supply portion to the supply passage of said feed valve device, a diaphragm subject to brake pipe pressure for operating said valve, and a valve operated by said diaphragm for controlling communication from said supply passage to said diaphragm.

1,685,838. DRAWING MECHANISM FOR SPINNING FIBROUS MATERIALS. UDO DITTMAR, Freiburg im Breisgau, Baden, Germany. Filed Aug. 16, 1927, Serial No. 213,353, and in Germany Jan. 24, 1927. 13 Claims. (Cl. 19—130.)



1. In a drawing-frame for spinning-machines a plurality of pairs of main drawing-rollers in combination with a plurality of additional bottom-rollers which are shorter than the main drawing-rollers and driving means for each said additional bottom roller.

1,685,839. TORQUE-EQUALIZING SYSTEM. ALEXANDER DAWES DU BOIS, Minneapolis, Minn. Filed Dec. 30, 1925. Serial No. 78,421. 18 Claims. (Cl. 64—89.)

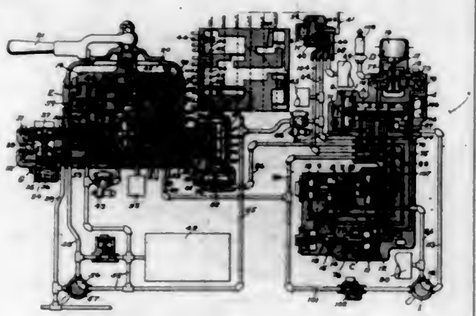


1. In the practice of power transmission, the art of transmitting the force of a turning moment through the particles of a displaceably disposed fluid, under controlled fluid pressure, in chambers of variable volume; thereby providing constant torque through constant pressure in the fluid, and providing for pulsations of angular velocity by the displaceable character of the fluid.

1,685,840. AUTOMATIC TRAIN STOP. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 27, 1925. Serial No. 71,532. 9 Claims. (Cl. 303—18.)

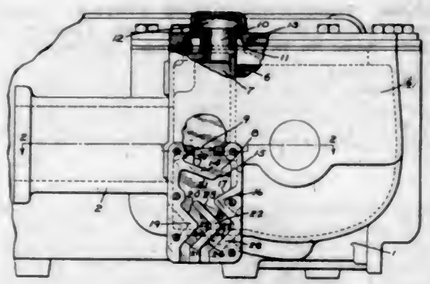
9. In a train control apparatus, the combination with a brake pipe and a brake valve device having a position in which fluid under pressure is supplied to the brake pipe, of a brake application valve device, train control mechanism for effecting the operation of said brake ap-

plication valve device, a valve for controlling communication through which said brake valve device supplies fluid to the brake pipe, and a piston operated upon movement



of said brake application valve device to effect an application of the brakes, for operating said valve to cut off said communication.

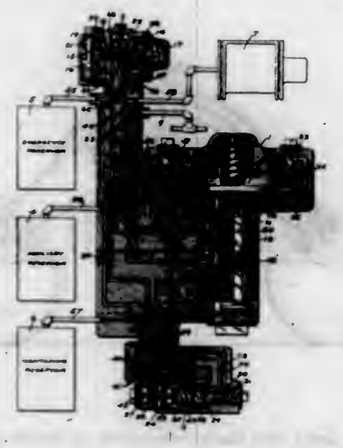
1,685,841. CRANK-CASE VENT. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 5, 1926. Serial No. 113,916. 2 Claims. (Cl. 121—194.)



1. The combination with a reciprocating piston machine having a crank case chamber, of a crank case air vent device having portions provided with faces against which the air current laden with oil vapor exhaled from the crank case chamber impinges and on which oil tends to deposit, and faces against which the air current carrying dirt particles impinges when air is inhaled, the particles tending to be deflected back in part and in part to be held against movement to the crank case chamber by the deposited oil, the faces on which oil tends to collect being disposed so that the collected oil tends to drain out to the atmosphere by gravity flow.

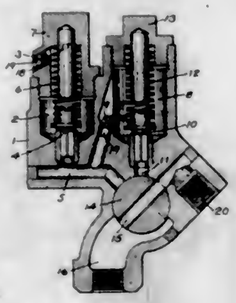
1,685,842. FLUID-PRESSURE BRAKE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 21, 1926. Serial No. 143,153. 8 Claims. (Cl. 303—60.)

2. In a fluid pressure brake, the combination with a brake pipe, auxiliary reservoir, brake cylinder, and triple valve device having a piston and slide valve and operated upon a reduction in brake pipe pressure for supplying fluid from the auxiliary reservoir to the brake cylinder, of a maintaining reservoir, a valve device for controlling the supply of fluid from the maintaining reservoir to the brake



cylinder, and means for charging said maintaining reservoir with fluid under pressure from the brake pipe through ports controlled by said slide valve.

1,685,843. DUPLEX PRESSURE RETAINER. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1927. Serial No. 174,192. 4 Claims. (Cl. 303—79.)

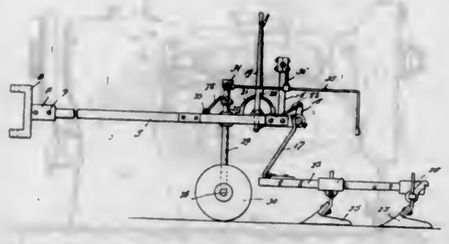


4. A pressure retaining valve device comprising two retaining valves and means for at one time directing the flow of fluid past one retaining valve and thence through a restricted port to the atmosphere and at another time past one retaining valve and through a restricted port to the other retaining valve and thence past the other retaining valve and through a restricted port to the atmosphere.

1,685,844. CULTIVATOR ATTACHMENT. BYRON L. FOWLER and JOHN J. SMITH, Morton, Tex. Filed Apr. 21, 1927. Serial No. 185,623. 1 Claim. (Cl. 280—82.)

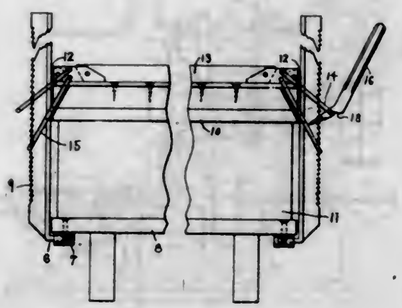
An attachment for a cultivator comprising a tongue, a frame at the rear end of the tongue, a standard journaled vertically in the frame, wheels mounted at the lower end

of the standard, a crank extending from an intermediate portion of the standard above the frame and having an opening in its extremity, a hook pivotally mounted on the tongue and engageable in the opening of the crank, a double crank extending in opposite directions from the



upper end of the standard, a pair of rods engaged with the extremities of the double crank, a post rising from the frame, a pair of brackets on the post inclining downwardly and outwardly and terminating in sleeves through which the rods are slidable, and the rear ends of the rods being bent downwardly and provided with handles.

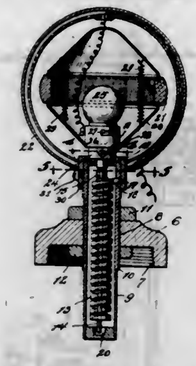
1,685,845. TRANSPORTATION OF PAPER. BERTWOOD LEROY HAMMOND, Worcester, Mass. Filed Aug. 31, 1925. Serial No. 53,467. 8 Claims. (Cl. 100—6.)



1. A device for facilitating the transportation of sheet paper comprising a platform upon which sheets of paper may be superimposed, a rigid upright member constructed and arranged for detachably mounting at opposite sides of the platform, a movable flat cross member arranged to engage a substantial area of the top sheet of a pile of paper upon the platform and extend between the upright members, a hand operated mechanism providing a large mechanical advantage to cooperate with the upright member and cross member to force the latter against the paper to prevent relative movement of the sheets during transportation, and means for holding the cross member rigidly in such position.

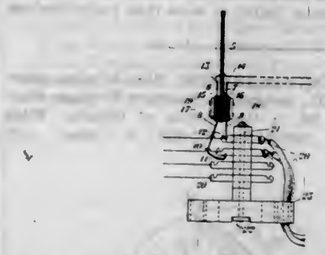
1,685,846. MOTOR METER. WILLIAM R. HESLEWOOD, Los Angeles, Calif., assignor of one-half to Fred A. Dana, Los Angeles, Calif. Filed Oct. 25, 1926. Serial No. 143,961. 3 Claims. (Cl. 116—114.)

3. In a motor meter, a hollow indicator consisting of a translucent horizontal annulus having readily distinguishable sectors, said annulus having seats in its upper and lower sides respectively, concavo-convex shells adapted to seat in said seats and thus to co-operate with said annulus to form a hollow rotatable body, and a tension spring



within said hollow body having one end secured to one of said shells and the other end to the other shell normally to hold said shells seated in said seats.

1,685,847. TEST CLIP. HERBERT HUNTINGTON, Hartford, Conn., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 29, 1925. Serial No. 78,231. 5 Claims. (Cl. 173—324.)

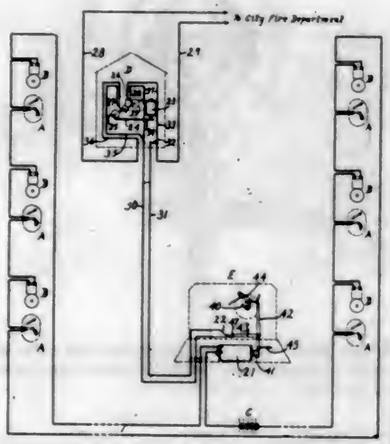


1. In a test clip adapted to be applied to individual groups of a bank of terminals, a pair of resilient members for the clip having oppositely alined contact points for simultaneously engaging certain terminals of a group, one of said resilient members being of greater length than the other of said members and being provided with a curved portion adapted to extend over the tips of an outer terminal and an inner terminal to grip the latter terminal, and the other resilient member being comparatively straight and adapted to grip said outer terminal, a handle for said clip, insulating means positioned between said resilient members and said handle, and means to clamp said resilient members to said handle.

1,685,848. SIGNAL SYSTEM AND DEVICE. GEORGE ALFRED JACKSON, Waltham, Mass., assignor, by mesne assignments, to The Gamewell Company, Newton, Mass., a Corporation of Massachusetts. Filed Mar. 8, 1924. Serial No. 697,773. 21 Claims. (Cl. 177—369.)

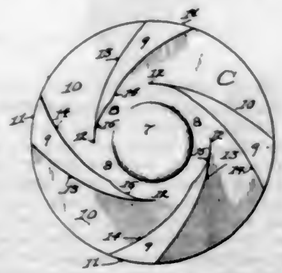
1. In a signal system,—signal manifesting mechanism, and controlling stations having means thereat for causing response of said mechanism by the formulation of respectively distinctive multi-impulse code signals, each of which signals comprises impulses some two of which have a predetermined characteristic of situation within the signal and are separated by a time interval the duration of which falls within predetermined maximum and minimum

limits; in combination with a signal transmitter and an actuating device therefor responsive to such impulses and involving means for causing functional actuation of said transmitter only when said device is subjected to a plurality of impulses some two of which have such predetermined



characteristic of situation within the signal and are separated by a time interval the duration of which walls within the limits which do not exceed said maximum or fall short of said minimum limits, in more than predetermined degrees.

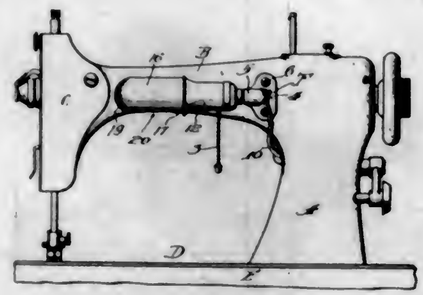
1,685,849. FORGING APPARATUS. CARL RICHARD JENNBERG, Chicago, Ill., assignor to Standard Forgings Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 26, 1926. Serial No. 131,553. 9 Claims. (Cl. 78—80.)



9. A forging apparatus adapted to work down and spin a hot billet to the desired contour and thickness, comprising a constantly rotating billet supporting die, and an upper reciprocating die provided with a plurality of spaced, spirally directed, metal working vanes.

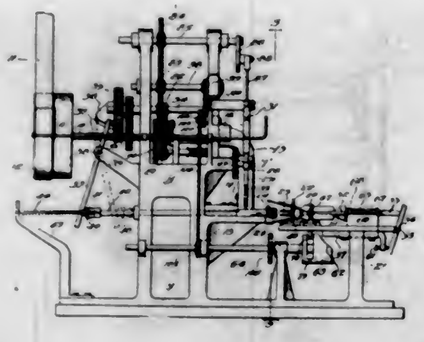
1,685,850. LIGHTING ATTACHMENT FOR SEWING MACHINES. RAYMOND F. LIST, Belvidere, Ill., assignor to National Sewing Machine Company, Belvidere, Ill., a Corporation of Illinois. Filed Jan. 21, 1927. Serial No. 162,506. 3 Claims. (Cl. 240—2.)

2. The combination with a sewing machine including an upright standard and overhanging arm, of an electric lighting device comprising an electric lamp, a socket, a reflector, and a bracket having one side complemental to the front of the overhanging arm adjacent to its connection with the standard, said bracket being rigidly connected to



the overhanging arm whereby the lighting device is mounted closely in front of and substantially parallel with the axis of said horizontal arm.

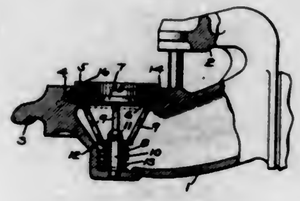
1,685,851. MACHINE FOR PLACING SPRINGS IN FABRIC POCKETS. JAMES L. MACINERNEY, Grand Rapids, Mich. Filed May 9, 1927. Serial No. 190,118. 22 Claims. (Cl. 226—18.)



1. A machine for placing coiled springs in fabric pockets, comprising mechanism for compressing the springs, means for maintaining the springs in compressed condition, a reciprocating plunger for moving the compressed spring in a horizontal plane toward and between the two laps of a folded fabric strip, a support for the fabric strip, a pair of gripping jaws, adapted to grasp the fabric strip and spring therebetween, means for transmitting limited reciprocating movement transversely of the machine to said jaws, means for releasing the gripping jaws from the strip, and means for returning the jaws to original position.

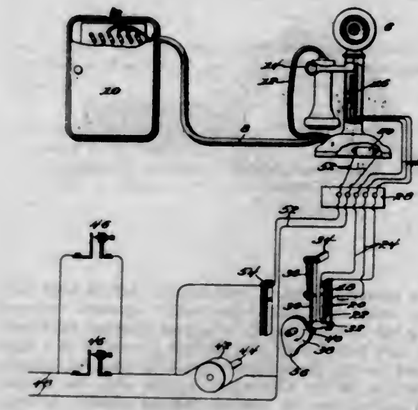
1,685,852. HOSE-COUPLING GASKET. ALBERT A. MACKERT, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 4, 1927. Serial No. 158,936. 1 Claim. (Cl. 285—63.)

The combination with a hose coupling head having a conduit provided with an opening at the meeting face of the head and having an annular recess adjacent to said opening, and a gasket having an annular flange disposed in said recess, of a stem mounted in said head in axial alinement with said opening, a member slidably mounted on said stem and engaging said gasket, and a spring



acting on said member and tending to press same in engagement with said gasket, and a stop carried by said stem and adapted to be engaged by said member for limiting the movement of said member by said spring.

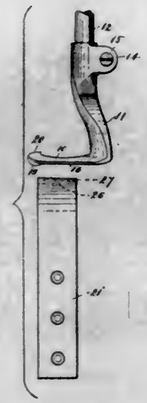
1,685,853. SIGNAL SYSTEM. AMEDEE S. MAZZUR, Waban, Mass. Filed Aug. 17, 1926. Serial No. 129,759. 2 Claims. (Cl. 179—5.)



1. An alarm apparatus comprising alarm initiating means, a normally stationary code wheel, means acting upon operation of the alarm initiating means for continuously rotating the code wheel, a signal circuit, a switch operated by the code wheel for intermittently opening and closing the signal circuit, a multiple element switch adapted to have its separate elements connected to the corresponding elements of the hook switch of a telephone instrument, a release cooperating with the multiple element switch and normally engaging the code wheel to maintain the elements of the switch out of contact with each other and constructed and arranged to be released and to permit permanent engagement of the contacts after starting of rotation of the code wheel.

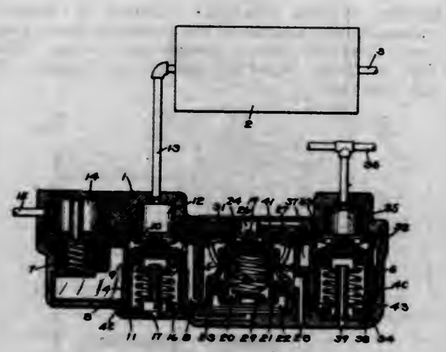
1,685,854. SHOE-SEWING MACHINE. THOMAS E. MCLAUGHLIN and MICHAEL C. MCLAUGHLIN, Holbrook, Mass. Filed Mar. 6, 1924. Serial No. 697,342. 1 Claim. (Cl. 112—62.)

In a shoe sewing machine, a needle-plate or table having a shank and a lateral extension offset from said shank toward the needle and inclined rearwardly, said lateral extension having a longitudinally-extending needle slot



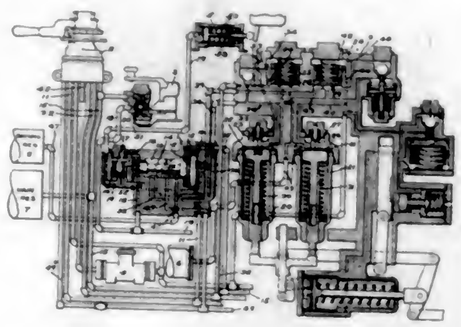
passing vertically therethrough and a horizontal thread groove formed in its upper surface, said thread groove intersecting said slot at the rearward end of the latter.

1,685,855. FLUID-PRESSURE BRAKE. JOSEPH C. MCCUNE, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 19, 1926. Serial No. 142,636. 4 Claims. (Cl. 303—63.)



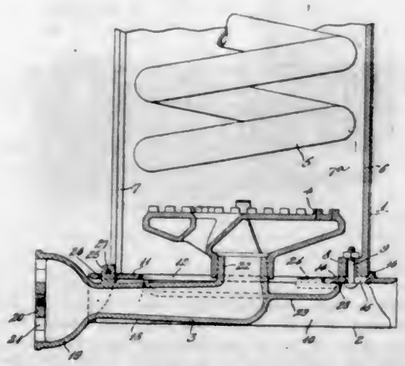
3. In a fluid pressure brake, the combination with a main reservoir, a main reservoir pipe, and a brake pipe, of a vent valve device for venting fluid from the brake pipe to effect an application of the brakes, a cut-off valve device operated upon a predetermined reduction in brake pipe pressure for operating said vent valve device to open communication through which fluid is vented from the brake pipe, and a protection valve device for cutting off communication from the brake pipe to said vent valve device until the brake pipe pressure has been increased to a predetermined degree.

1,685,856. VARIABLE-LOAD DEVICE. JOSEPH C. MCCUNE, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 14, 1927. Serial No. 226,121. 9 Claims. (Cl. 303—22.)



4. The combination with a "safety car control equipment," of a variable load mechanism associated with said equipment and operative by fluid under pressure, when effecting an application of the brake, to vary the braking power in accordance with the load on the car, said mechanism comprising a service limiting portion and an emergency limiting portion, a brake cylinder forming a part of said equipment and connected to said emergency limiting portion, means included in said equipment for supplying fluid under pressure directly to said service limiting portion in effecting a service application of the brake, and valve means forming part of said equipment adapted to control the flow of fluid under pressure from said service limiting portion to said brake cylinder through said emergency limiting portion.

1,685,857. WATER HEATER. CLARENCE H. MORROW, Cleveland, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 27, 1924. Serial No. 740,227. 11 Claims. (Cl. 126—350.)



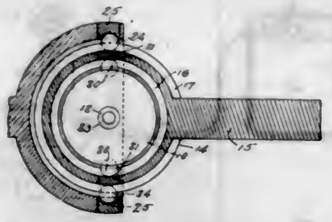
1. A water heater, comprising a casing provided with a front door opening and a base having a skirt, and a side feed burner mixer having a horizontally extending portion extending through the skirt, said base being formed to receive said mixer in a plurality of different positions.

1,685,858. ELECTRIC SWITCH. ARVID H. NERO, New Britain, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Oct. 17, 1923. Serial No. 669,086. 14 Claims. (Cl. 173—355.)



1. In an electric switch, a switch contact, a pivoted rocker, a push bar slidable with respect thereto and adapted to push the rocker toward the switch contact, and a spring carried by the push bar and having a camming engagement with the rocker to complete the circuit closing travel of the latter.

1,685,859. UNIVERSAL JOINT. ELI NOEL, Kansas City, Mo. Filed July 7, 1927. Serial No. 204,112. 1 Claim. (Cl. 64—91.)

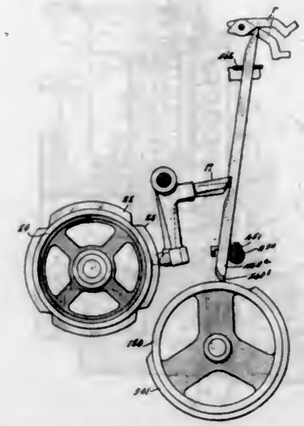


In a universal joint, a semi-circular hollow body having an axial shaft and diametrically opposite concaved bearing ball cavities therein, a central spherical solid body within said hollow body and movable therewith as a rigid unit and having diametrically opposite concaved bearing ball cavities therein adapted to register with the cavities in the hollow body, an annular bearing member movably surrounding said solid body and having an axial spindle or shaft and annular concaved bearing ball race opening to the solid body and an annular concaved bearing ball race opening to the wall of said hollow body, bearing balls movable in the cavities in said solid body and extending into the inner race in said bearing member, and bearing balls movable in the cavities in said hollow body and extending into the outer race in said bearing member.

1,685,860. CIRCULAR-KNITTING MACHINE. ALBERT E. PAGE, Brooklyn, N. Y., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Feb. 17, 1927. Serial No. 168,979. 9 Claims. (Cl. 66—154.)

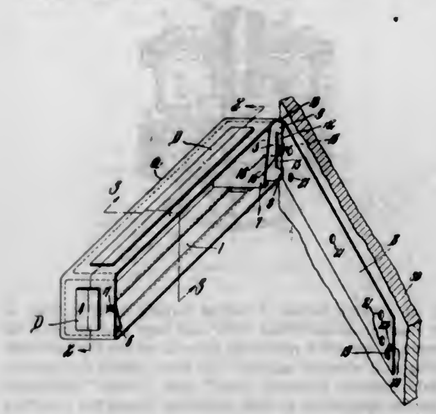
8. In a knitting machine a main pattern drum, an auxiliary pattern drum, a comb, a pair of thrust rods passing through one of the slots in said comb, said thrust rods having slots in their sides at different elevations, one cam on said main pattern drum adapted to control said pair of thrust rods, cams of two heights on one cam position of said auxiliary drum, means controlled by said auxiliary drum cams to raise one thrust rod when actuated by the low cam and the other thrust rod when actuated by the high cam, in

combination with a stationary external sinker cam cap and a vertically movable cam in said cam cap, said vertically movble cam having a spring mounted on said cam ring tend-



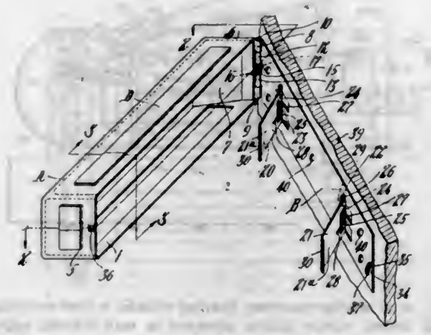
ing to hold said vertically movable cam in its uppermost position, said pair of thrust rods controlling the position of said cam.

1,685,861. DISPENSING CABINET. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed July 28, 1925. Serial No. 46,578. 3 Claims. (Cl. 312—60.)



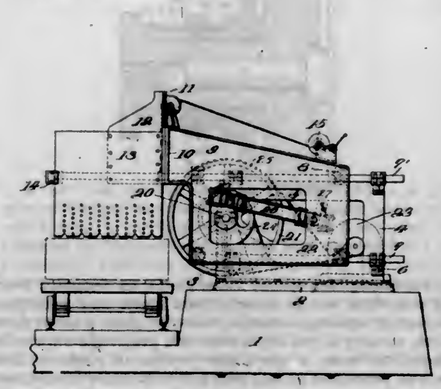
1. A dispensing cabinet comprising a back for securement to a support, an open-back receptacle for housing a supply of interleaved sheets hingedly secured thereto at one end and having a slot at the bottom, through which said sheets may be successively withdrawn, and a pair of inclined leaves within and adjacent to the ends of said receptacle and converging toward the ends of said slot for guiding said sheets in proper position toward said slot, said receptacle being swingably open from said back horizontally, so that sheets may be introduced into said receptacle through its open back.

1,685,862. DISPENSING CABINET. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Aug. 18, 1925. Serial No. 50,941. 4 Claims. (Cl. 312—61.)



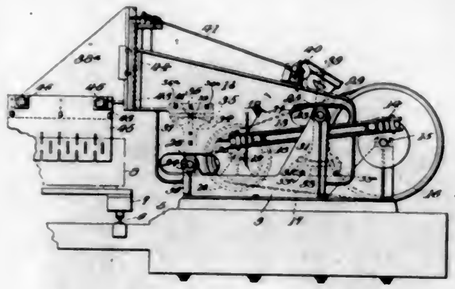
1. A dispensing cabinet comprising a back for securement to a support, a receptacle for containing a supply of interleaved sheets hingedly secured thereto and having a horizontal slot at its front through which said sheets may be successively withdrawn, and a pair of inclined plates within said receptacle and converging toward the ends of said slot for guiding said sheets towards said slot.

1,685,863. STONE-SAWING MACHINE. FRED R. PATCH, Rutland, Vt. Filed Aug. 5, 1925. Serial No. 48,259. 4 Claims. (Cl. 125—16.)



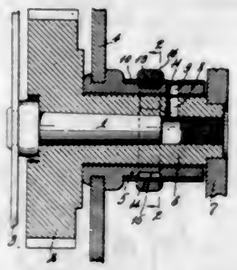
1. A stone sawing machine comprising a base having standards, a crank shaft mounted in said standards having a crank head provided with a wrist pin, a vertically disposed frame mounted on said base provided with brackets, bearings carried by said brackets, a saw head provided with rods slidably mounted in said bearings, a wrist pin carried by said saw head, a pitman connecting the wrist pin of said saw head to the wrist pin of said crank shaft, a guide holder slidably mounted on one end of said saw head, a saw blade carried by said holder and a guide carried by one of said rods for guiding the free edge of said blade.

1,685,864. STONE-SAWING MACHINE. FRED R. PATCH, Rutland, Vt. Filed Oct. 26, 1926. Serial No. 144,325. 10 Claims. (Cl. 125—16.)



1. In a sawing machine, bearing stands, a saw carrying slide frame, rocker shafts mounted in said stands, oppositely arranged guides carried by the frame, and oppositely disposed rockers pivoted on said shafts and coacting with the guides for mounting the frame for reciprocating movement.

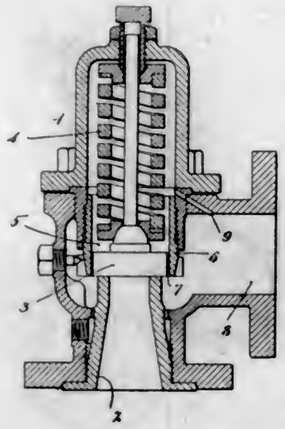
1,685,865. LUBRICATING DEVICE. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 16, 1922. Serial No. 544,272. 1 Claim. (Cl. 308—124.)



In a fishing reel, spaced frame plates, an elongated bearing post fixed to the inner of said plates and projecting through an opening formed in the outer plate, a sleeve fixed in the opening of the outer plate and projecting outwardly beyond the same, a spool gear having an elongated hollow hub journalled on said post and in said sleeve, said post terminating short of the end of the hub to provide a lubricant chamber, said hub and sleeve having registering ports communicating with said chamber, and a rotatable cap on said sleeve frictionally retained against rotation and provided with an opening adapted to register with said ports.

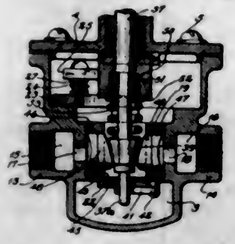
1,685,866. SAFETY AND RELIEF VALVE. FAIRFIELD E. RAYMOND, Boston, Mass., assignor to Crosby Steam Gage & Valve Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 25, 1922. Serial No. 590,290. 1 Claim. (Cl. 137—53.)

A safety valve comprising a throat tube terminating in an opening, a spring operated valve disc normally closing the opening, a chamber above the valve disc enclosing the spring, an outlet chamber through which fluid vapor escapes upon opening of the valve disc, and connections between the spring chamber and outlet chamber designed to permit



the escape of fluid vapor from the spring chamber and reduce the pressure in the spring chamber by virtue of the eductive effect of vapor flowing through the outlet chamber.

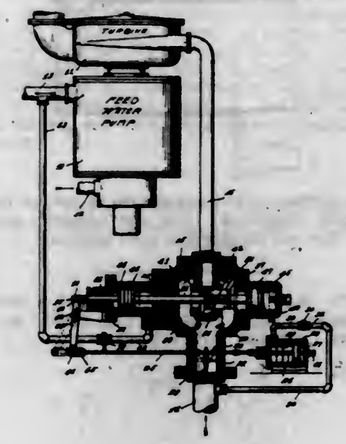
1,685,867. FLUID-MIXING VALVE. BENJAMIN ROSENBAUM, New York, N. Y. Filed Jan. 15, 1926. Serial No. 81,359. 16 Claims. (Cl. 277—39.)



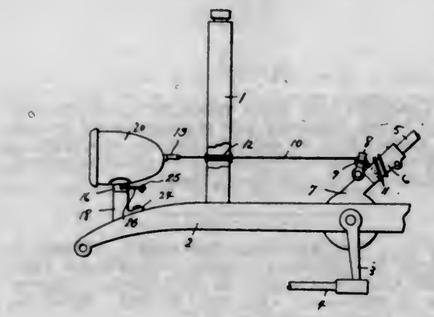
15. In a valve device, a casing having a valve seat, a valve element co-operating with said seat and movable in a horizontal direction relatively thereto, means for normally pressing said element against said seat, means for operating said element between "open" and "closed" positions, and means operatable by said operating means for reducing the pressure of said element upon said seat during operation of said element.

1,685,868. CONTROLLER GOVERNOR. VICTOR SCHLEYER, Anderson, Ind., assignor, by mesne assignments, to Dean Hill Pump Company, Anderson, Ind., a Corporation of Indiana. Filed June 2, 1923. Serial No. 643,027. 9 Claims. (Cl. 103—19.)

1. A safety governor-controller for pressure producing pumps, comprising control means for controlling the supply of power to the driving means for a pump, means acted on oppositely by the pressure developed by the pump and by the pressure of said power-supply to shift the position of said control means to maintain a predetermined relation between said two pressures, and shut-off means for shutting off the supply of power, said shut-off means being connected with said control means to be moved thereby to shut-off position by the movement of said control means which occurs when the pressure produced by the pump falls.

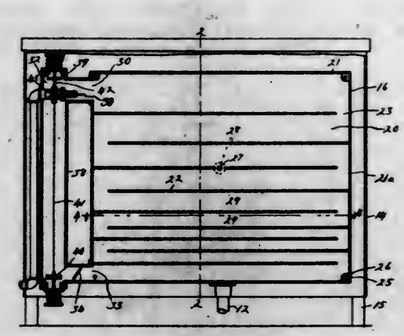


1,685,869. AUTOMOBILE HEADLIGHT STRUCTURE. JOSEPH CECIL SHOFNER, Haley, Tenn. Filed Feb. 25, 1927. Serial No. 171,046. 1 Claim. (Cl. 240—62.)



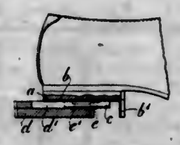
In an automobile, the combination of a frame, a radiator having a longitudinally disposed conduit guide extending through its lower portion, a steering mechanism in rear of said radiator, a light mounted on the frame to be turned from a straight-ahead position to a laterally directed position, a tensioned spring connected with the frame and the light and arranged on release of the light to turn the same to a laterally-directed position, a crank connected with the light, and a flexible cable movable through the conduit guide in the radiator and directly interposed between and connected to said crank and said steering mechanism, whereby when the steering mechanism is actuated and forward movement of said cable is permitted said spring will operate to move the light to a laterally directed position.

1,685,870. INTERNAL-COMBUSTION RADIATOR UNIT. FRANK W. SHUELL and ELMER E. LEDBETTER, Detroit, Mich., assignors to The Ever Hot Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 11, 1927. Serial No. 182,845. 10 Claims. (Cl. 126—91.)



1. A heating apparatus of the internal combustion type comprising a combustion chamber having an air inlet at the top thereof and an elongated flue passageway extending downwardly therefrom, means for introducing fuel into the upper portion of said combustion chamber adjacent said air inlet, and means for forcibly withdrawing the products of combustion from the lower portion of said combustion chamber.

1,685,871. DETACHABLE HEEL FOR BOOTS AND SHOES. HARRY ASHER, London, England. Filed Aug. 17, 1927, Serial No. 213,593, and in Great Britain Apr. 9, 1927. 1 Claim. (Cl. 36—42.)

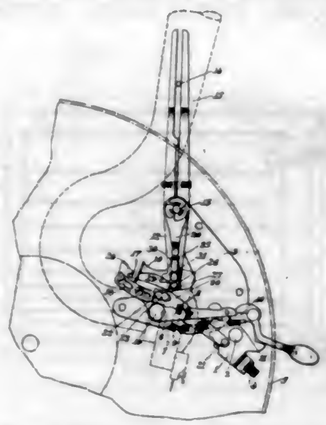


A shoe heel having upper and lower sections, a plate secured against the under face of the upper heel section and having a depending portion at its front edge constituting an abutment and formed with an opening, a longitudinally extending rib depending from the plate between the abutment and the rear end of the plate and dovetailed in cross section, the lower heel section having a longitudinally extending groove opening through its front edge face and dovetailed in cross section to snugly receive the rib, and a fastener having an attaching portion secured against the upper face of the lower heel section and a tongue projecting forwardly and passed through the opening in said abutment and bent into clinching engagement with the front face thereof.

1,685,872. AUTOMATIC BRAKE FOR TALKING MACHINES. HORACE LEOPOLD TUCKER BUCKLE, Iver Heath, England, assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Dec. 28, 1927, Serial No. 243,164, and in Great Britain Nov. 10, 1926. 6 Claims. (Cl. 192—124.)

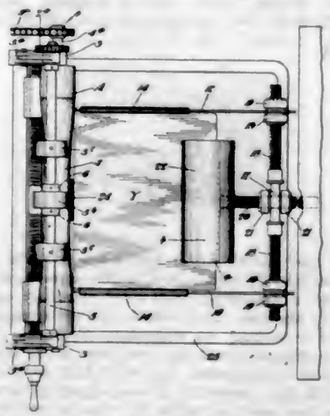
1. An automatic brake for talking machines comprising a rotatable brake member and a detent member adapted to engage said brake member to hold it in the "off" position and to be moved to allow said brake member

to move into the "on" position, a sound arm, a member moved by said sound arm, and brake withdrawing means adapted to cooperate with the rotatable brake member



and the member moved by the sound arm whereby withdrawal of the brake from the stopping position may be effected by the manual operation of the sound arm.

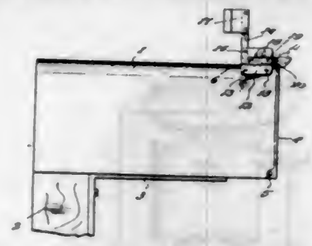
1,685,873. FEED ROLLERS. ARCHIBALD D. EVANS and JAMES K. LAMOREE, New Castle, Pa., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Sept. 28, 1927. Serial No. 222,681. 5 Claims. (Cl. 271—80.)



2. Feed rollers for delivering sheets and plates comprising, in combination, a concave roller, a shaft arranged parallel to said concave roller, an idler disk mounted for free rotation on said shaft at a point intermediate the ends of said shaft, said idler disk being spaced from said concave roller, at least two other disks mounted on and fixed to said shaft and spaced equidistant from the center of said shaft and concave roller, said last named disks being in contact with said roller.

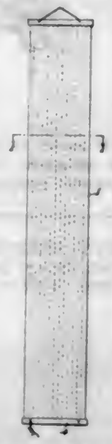
1,685,874. MAIL-BOX LATCH AND SIGNAL. HERMAN C. FEIST, Rowena, Tex. Filed Apr. 19, 1927. Serial No. 184,959. 8 Claims. (Cl. 232—34.)

1. A receptacle, a closure for said receptacle movable into and out of a closed position, a signal carried by said receptacle and movable into and out of a set position, and a movably mounted latch carried by said receptacle and having a portion engageable with said closure and



another portion movable into and out of position to engage said signal whereby the latch may releasably retain the closure shut and the signal in a set position.

1,685,875. RADIO APPLIANCE. ALBERT B. FISHWICK, Cincinnati, Ohio. Filed Nov. 12, 1923. Serial No. 674,225. 6 Claims. (Cl. 250—33.)



4. A material from which electric wave sensitive units may be formed comprising webs of paper secured together by a binding layer of dielectric adhesive of bituminous nature and strands of interspaced wires extending through said material, within the binding layer.

1,685,876. TOOTHBRUSH CONTAINER. HARRY C. FRAYER, St. Paul, Minn., assignor to Sterilizable Tooth Brush Container Company, St. Paul, Minn., a Corporation of Minnesota. Filed Feb. 9, 1925. Serial No. 7,879. 1 Claim. (Cl. 248—63.)

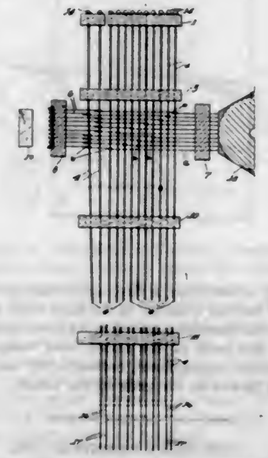


A tooth brush holder comprising a glass tube cover member having perforations near the top thereof, hook-shaped means for frictionally holding the lower end of said cover member, a flange integral with said holding means upon one end thereof, a lip horizontally disposed upon said flange and extending inside the opening in the lower portion of said cover member, and a pivoted bottom portion secured to said lip.

1,685,877. HEAT TREATMENT OF PERMANENT MAGNETS. JAMES EDWIN GEE and FREDERICK SAMUEL GEE, London, England. Filed Mar. 21, 1925, Serial No. 17,440, and in Great Britain Mar. 25, 1924. 2 Claims. (Cl. 148—3.)

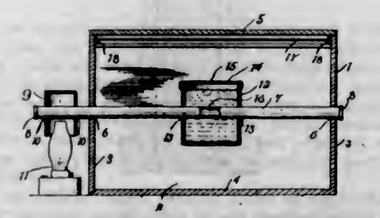
1. A method of making permanent magnets by casting and heat treating the castings only before magnetizing, in which the castings are softened by heating and then hardened by first heating to approximately 1,200° C., then cooling and leaving for about 18 hours, reheating to approximately 750° C., and allowing to cool and finally heating to approximately 1,000° C. for ten minutes, allowing to cool, and leaving for about 12 hours before magnetizing.

1,685,878. JACQUARD HARNESS. HAROLD GRIFFITHS, Shrewsbury, Mass. Filed Apr. 13, 1927. Serial No. 183,479. 8 Claims. (Cl. 139—59.)



1. In a jacquard machine, a top board, a selectively lifting board, and a set of stiff harness elements extending through the selectively lifting board and the top board, means to hold said elements from falling through the top board, and means for lifting them by the rise of the selectively lifting board, whereby said action takes place without flexure of the harness elements.

1,685,879. BROODER HEATER. GEORGE E. LEAR, Danville, Ala. Filed May 23, 1927. Serial No. 193,664. 1 Claim. (Cl. 237—15.)



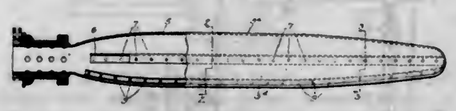
A brooder comprising a casing, a tube supported by the end walls of the casing and having one end extended beyond one end wall, a heat trapping receptacle mounted upon the extended end, a water tank supported by the tube, said tube having an orifice therein for communication with the tank, and a heating unit associated with the receptacle for heating water in the tube and thus the water in the tank.

1,685,880. LIQUID-DISPENSING DEVICE. NAPOLEON H. LOPOSER, Gulfport, Miss. Filed Mar. 19, 1927. Serial No. 176,698. 2 Claims. (Cl. 221—100.)



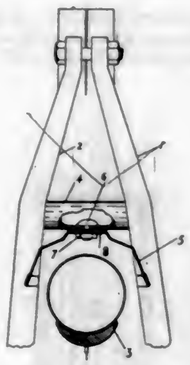
1. In a liquid dispensing device, the combination of a dispensing receptacle including an inlet and a dispensing outlet and an overflow outlet, a plurality of measuring tubes communicating with the overflow outlet and extending to different levels in the receptacle and having valve seats at their respective upper extremities, the top of said receptacle having openings vertically alined with the respective measuring tubes and a plurality of valve units each including a handle and a stem and a valve closing element, these valve closing elements being normally seated on the upper extremities of the respective measuring tubes while the respective stems extend through the respective openings which are alined with the respectiev measuring tubes, the respective handles being operable to raise the respective valve elements from the respective measuring tubes and thereby permit a surplus of the liquid to escape through one or another of the measuring tubes, means to engage with the respective handles and thereby hold the respective valves in raised position, and a valve operable to open and close said dispensing outlet and thereby dispense the liquid remaining in the receptacle after the surplus has escaped through one of the measuring tubes.

1,685,881. PROPELLER BLADE. MOSES C. NIXON, Chicago, Ill. Filed Nov. 1, 1926. Serial No. 145,571. 2 Claims. (Cl. 170—159.)



1. A propeller blade comprising a sheet of metal, a channel-like member extending substantially the length of the blade, said sheet of metal being folded longitudinally so as to bring its sides against the flanges of said channel member, said channel member being so disposed that its flanges project toward the free edges of said sheet of metal, means for securing the sides of said sheet of metal to said flanges, and means for securing said free edges of the sheet of metal together.

1,685,882. BICYCLE REPAIR PLATE. EWALD F. PAWSAT, Maysville, Ky., assignor to Wald Manufacturing Company, a Corporation of Kentucky. Filed Sept. 29, 1926. Serial No. 138,523. 1 Claim. (Cl. 208—141.)

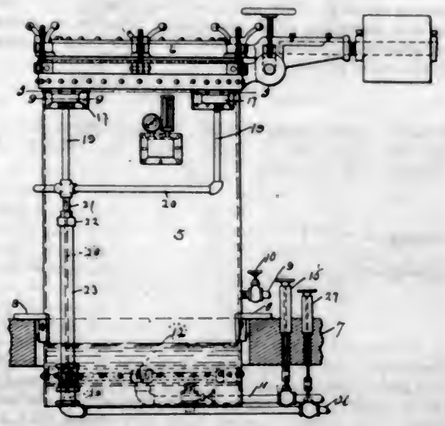


As an article of manufacture, an elongated repair plate, said plate being shaped to rest longitudinally against a bicycle mud guard, and having a central perforation to receive the mud guard attaching bolt.

1,685,883. PROCESS OF SEPARATING GAS MIXTURES. ARTHUR B. RAY, Flushing, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed May 4, 1923. Serial No. 636,766. 12 Claims. (Cl. 196—8.)

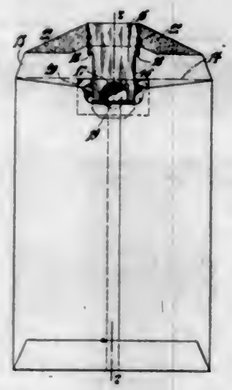
11. Process of separating gas mixtures by the absorption of a water-insoluble constituent thereof in activated carbon which comprises contacting the gas mixture with the carbon and supplying water to the carbon during the absorption to cool the carbon.

1,685,884. SPRAY ATTACHMENT FOR RETORTS. ROBERT A. SINDALL, Baltimore, Md., assignor, by mesne assignments, to Mavis Bottling Company of America, Baltimore, Md., a Corporation of Delaware. Filed Sept. 25, 1926. Serial No. 137,802. 2 Claims. (Cl. 126—272.)



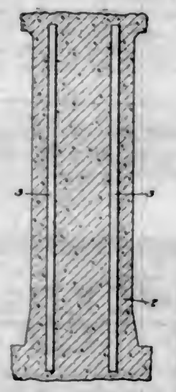
1. A temperature regulating spraying device for retorts, including a vessel having a cover therefor, a spraying head secured in said vessel, a feeding means for said spraying head, spraying plates secured adjacent the upper end of said receptacle, feeding means for said spraying plates, and an injector vacuum forming means secured in said last named feeding means as and for the purpose specified.

1,685,885. BAG OR ENVELOPE. GEORGE C. SNYDER, Long Island City, N. Y., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 17, 1923. Serial No. 668,902. 6 Claims. (Cl. 229—68.)



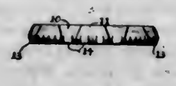
2. In a bag or envelope, a flap, operating means therefor, the bag body having a notch in its back wall and a transverse slit for the operating means in its front wall and which lies between the ends of the notch, and means for establishing a mutual engagement between the back wall and the operating means at the ends of the notch.

1,685,886. CONCRETE-REENFORCING MEMBER. FRANK N. SPELLER, Pittsburgh, Pa. Filed July 30, 1925. Serial No. 47,000. 4 Claims. (Cl. 72—111.)



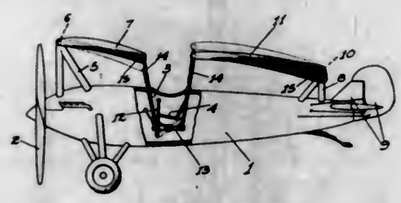
4. A hollow reenforcing bar for concrete and the like, having a non-circular, readily collapsible cross-section, the cross-section of said member being substantially equal to the cross-section required in standard practice for solid reenforcing bars.

1,685,887. BOTTLE CAP. HENRY SPENGLER, New York, N. Y. Filed Apr. 20, 1926. Serial No. 103,201. 6 Claims. (Cl. 215—46.)



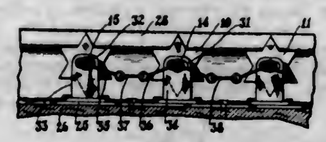
1. In a bottle closure, a cap provided with dependent, inturned spring fingers, yielding reinforcing members overlying said fingers, the ends of said fingers and of said members being crimped and the reinforcing members and fingers being provided with interlocking means.

1,685,888. AEROPLANE. GEORGE C. ST. LOUIS, Fresno, Calif., assignor of one-half to Francis A. Spooner, Willows, Calif. Filed June 18, 1927. Serial No. 199,817. 4 Claims. (Cl. 244—12.)



4. An aeroplane including a fuselage, separate longitudinally spaced wings disposed above the fuselage, supports projecting upwardly from the fuselage adjacent its opposite ends, hinge connections between said supports and the front and rear ends of the front and rear wings respectively, means for turning the wings on their hinge connections at will, such means comprising a pivoted operating lever mounted in the fuselage, and connections between said lever and the wings arranged to cause the free ends of the front and rear wings to be lowered and raised simultaneously relative to the fuselage.

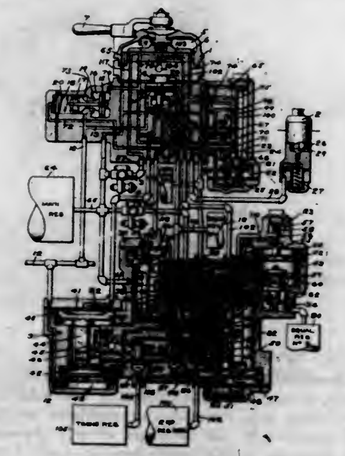
1,685,889. CATTLE GUARD FOR RAILROADS. AUGUSTIN THIBERT, Jogues, Ontario, Canada. Filed Mar. 26, 1928. Serial No. 264,809. 2 Claims. (Cl. 256—16.)



1. In an animal guard, a series of rods placed parallel to each other and slidably mounted in vertical supporting members which are secured to a suitable base structure, rotatable members having spur points projecting radially therefrom and the said rotatable members mounted at intervals on the aforesaid rods, and foot plates positioned in the spaces intervening between the said rods and supported by links which connect them to adjacent portions of the said rods.

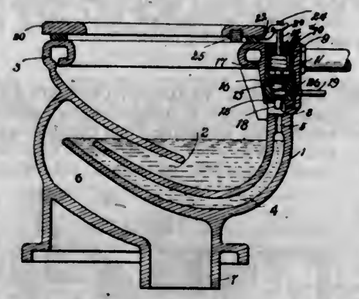
2. In an animal guard, parallel series of spur wheels rotatably mounted at intervals on rod members which are slidably supported in vertical bearing brackets, which brackets are secured to suitable base elements, and foot plates in positions parallel to the said rods and supported therefrom by link members which are placed at intervals thereon.

1,685,890. FLUID-PRESSURE BRAKE DEVICE. THOMAS H. THOMAS, Edgewood, and CLAUDE A. NELSON, Wilmerding, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 14, 1927. Serial No. 226,112. 16 Claims. (Cl. 303—18.)



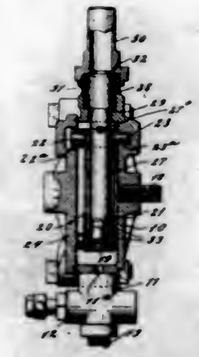
2. The combination with a brake pipe, of means for effecting a reduction in brake pipe pressure in two stages including an equalizing reservoir, means operating upon a reduction in pressure in said reservoir for effecting a reduction in brake pipe pressure, a second equalizing reservoir, and means operating in effecting the first stage of reduction in brake pipe pressure for connecting the second equalizing reservoir to the first equalizing reservoir and operating upon effecting the second stage of reduction in brake pipe pressure for disconnecting the second reservoir from the first.

1,685,891. WATER-CLOSET VENTILATOR. WILLIAM M. WATKINS and GEORGE C. FINLEY, Long Beach, Calif. Filed Feb. 15, 1927. Serial No. 168,394. 1 Claim. (Cl. 4—72.)



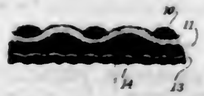
A water closet bowl having a discharge passage and a conduit, said bowl having a recess formed therein, a valve casing mounted in the recess and having a seat in its lower end, a water supply pipe communicating with the casing above the seat, a valve cooperating with the seat, and normally cutting off the supply of water from the said pipe to the seat, said bowl having a chamber therein opening into the interior of the bowl, an injector nozzle fitted in the seat and extended into the chamber, said nozzle serving to discharge water into the conduit when the valve is unseated, to draw air from the bowl into the chamber for discharge into the conduit and a second conduit connecting the chamber and recess.

1,685,892. APPARATUS FOR ABRADING GRAPHITE OR SIMILAR MATERIAL. LEWIS S. WATERS, Scranton, Pa., assignor to National Graphite Lubrication Company, Wilmington, Del., a Corporation of Delaware. Filed July 11, 1924. Serial No. 725,377. 8 Claims. (Cl. 137—99.)



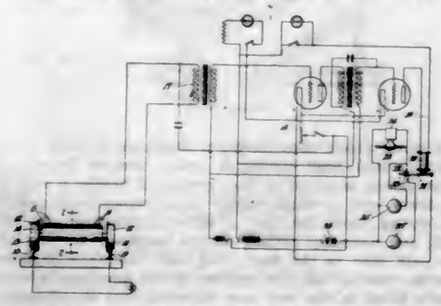
1. In combination a vibrating support, a chamber mounted thereon, a magazine tube extending into said chamber, an outlet from said chamber, an oscillator within said chamber operated by the vibration of said chamber, and abrasive material within said chamber carried by said oscillator.

1,685,893. FLEXIBLE COVERING MATERIAL AND METHOD OF MAKING THE SAME. JOHN A. WILSON, Elizabeth, N. J., assignor to Duratex Corporation, Newark, N. J., a Corporation of New Jersey. Original application filed Nov. 12, 1923, Serial No. 674,313. Divided and this application filed June 2, 1924. Serial No. 717,299. 10 Claims. (Cl. 154—50.)



3. A flexible, water proof, covering material comprising a burlap base, an intermediate layer of oxidized oil applied to said burlap base, a facing fabric secured to said burlap base by said intermediate layer, and a surface coating applied to said facing fabric.

1,685,894. AUTOMATIC TRAIN-CONTROL APPARATUS. MAX THEODORE WINTSCH, Lancaster, Pa., assignor to The Lowell-Wintsch Automatic Train Control Corp., Lancaster, Pa., a Corporation of Delaware. Filed Oct. 20, 1926. Serial No. 142,789. 11 Claims. (Cl. 246—63.)

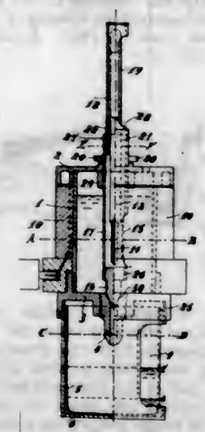


1. Brake controlled apparatus for vehicles mounted on rails comprising a valve for controlling the application of the brakes, electro-magnetic means for holding said valve closed, a metal sheet surrounding an axle of the vehicle and having its edges connected through the cores of a plurality of coils, an amplifier circuit inductively connected to said coils, and a relay in the output circuit of said amplifier for controlling the energization of said electro-magnetic means.

1,685,895. METHOD OF MAKING CALCIUM POLYSULPHIDE. CHARLES D. WOOD, Walnut Park, Calif., assignor to Los Angeles Chemical Company, Los Angeles, Calif., a Corporation of California. Filed Sept. 1, 1926. Serial No. 133,066. 7 Claims. (Cl. 23—138.)

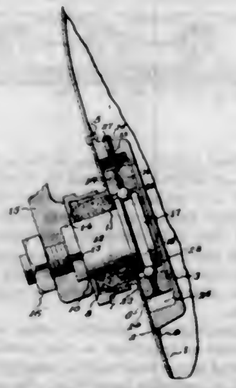
1. The method of making calcium polysulphide consisting in grinding sulphur in the presence of lime and hot water.

1,685,896. VISCOSIMETER. JACQUES WOUDHUYSEN and GASTON ORY, Paris, France. Filed July 7, 1927. Serial No. 204,122. 3 Claims. (Cl. 265—11.)



1. A viscosimeter comprising in combination: a cup-like container for the liquid to be tested, means for heating the liquid, a nozzle in the bottom of the container, an internal valve seat in said nozzle cooperating with a valve forming part of a tubular fitting containing a thermometer, the bulb of which contacts with the liquid to be tested, means for opening and closing the valve and a graduated testing cup receiving the liquid flowing through the nozzle.

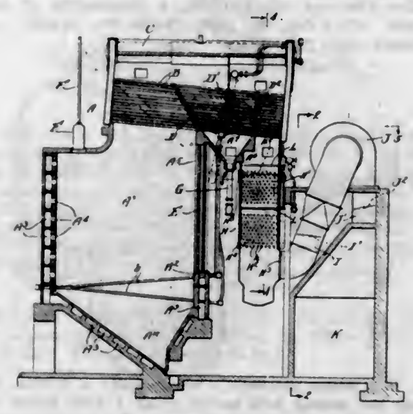
1,685,897. BEARING FOR DRILL DISKS. CLARENCE L. YOST and LOYAL C. BROWN, Kanorado, Kans. Filed Mar. 19, 1927. Serial No. 176,754. 2 Claims. (Cl. 308—181.)



1. A bearing of the class described, comprising a boxing, a disk removably engaged in the boxing, a cover plate for the rear side of the boxing, said cover plate having a

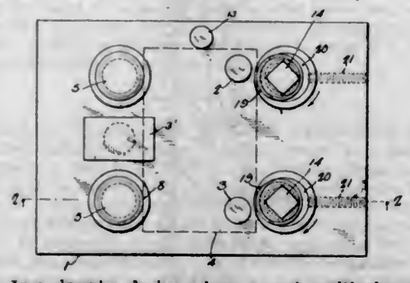
casing carried thereby, a cap threaded upon the casing, packing engaged in the casing, a spindle adapted for attachment to a planter, said spindle being engaged in the casing and having its outer end formed with a circular head adapted to engage in the boxing, said head having a ball race therein, rings engaged in the boxing, and having grooves formed in their inner peripheries to constitute a ball race which coincides with the ball race of the head, ball bearings engaged with the respective ball races, pockets formed in the bearings, and grooves formed in the base of the boxing, and affording communication between the respective pockets for distributing a lubricant within the boxing, and washers interposed between said rings.

1,685,898. ECONOMIZER BOILER. JOHN E. BELL, Brooklyn, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1923. Serial No. 623,385. 7 Claims. (Cl. 122—292.)



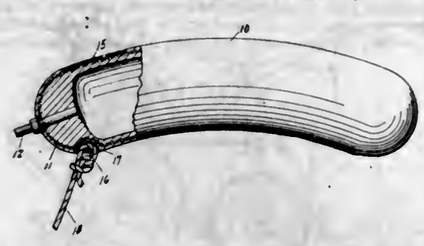
1. The combination with a horizontal water tube boiler having a housing therefor and baffled to provide four transverse passes for the heating gases, of a chamber beneath the first pass through which heating gases pass upward into said first pass, an economizer located within said boiler housing beneath the fourth pass and comprising a closely spaced bank of heating tubes, and means providing a flow path for the discharge of heating gases from the bottom of the economizer including separate portions at opposite sides of a plane transverse to said tubes and intermediate the ends of the latter.

1,685,899. CLAMPING DEVICE. WILLIAM K. ANDREW, Milwaukee, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a Corporation of Wisconsin. Filed Oct. 4, 1923. Serial No. 666,515. 10 Claims. (Cl. 51—217.)



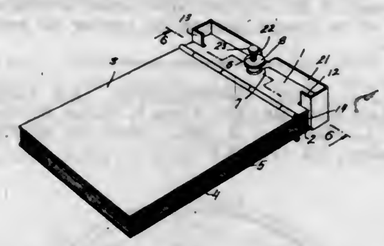
1. In a clamping device, a base, a work positioning stop fixed therewith, a clamp member having an eccentrically formed work clamping portion rotatably fixed on said base, and means for adjusting the axis of rotation of said head portion relative to the position of said stop.

1,685,900. SECTIONAL AIR BAG. KIT CURTIS BENN, Akron, Ohio, assignor to The Mohawk Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 2, 1926. Serial No. 85,491. 3 Claims. (Cl. 18—45.)



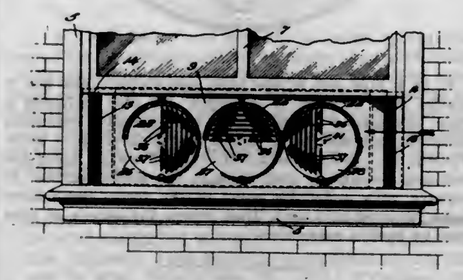
1. In a sectional air bag construction, an expansible bag having a recess formed upon its inner face, and a band of cord fabric wrapped about the bag a plurality of times, the cords being brought together to form a cable which passes over the recess and forms an eye.

1,685,901. BINDER. FRED BERNER, East Rutherford, N. J. Filed May 7, 1926. Serial No. 107,389. 6 Claims. (Cl. 129—18.)



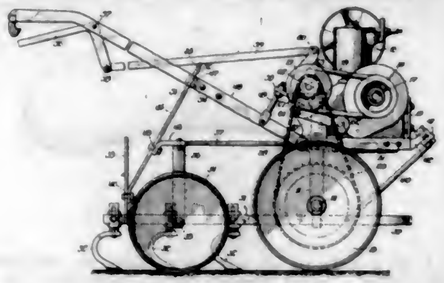
1. In a loose leaf binder, the combination of a pair of binding strips, leaves arranged between the said strips, means for keeping the leaves substantially in alignment, said leaves and one of said strips each having a notch intermediate the side edges of the leaves, a threaded post pivoted to the other strip and projecting through the said notches, and a nut carried by said post, the said post being adapted to swing at least partially out of the notches when the nut is loosened.

1,685,902. WINDOW VENTILATOR. CHARLES G. BLOOMER, Cranston, and HENRY F. SANDS, Providence, R. I. Filed Mar. 16, 1928. Serial No. 262,124. 3 Claims. (Cl. 98—99.)



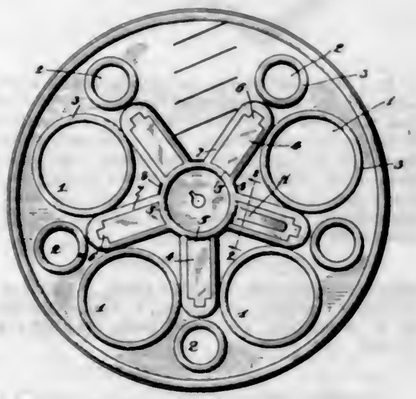
1. In a window ventilator, an oblong plate provided with semicircular orifices longitudinally disposed therein, disks rotatably supported by the plate over the orifices, and a series of integral forwardly directed louver fins transversely disposed upon semicircular segmental areas of the disks.

1,685,903. CULTIVATOR. HARRY W. BOLENS, Port Washington, Wis. Filed Nov. 12, 1921. Serial No. 514,652. 10 Claims. (Cl. 97—48.)



1. In a garden cultivator, the combination of a propelled frame, a tool carrying frame connected to the propelled frame, ground working tools carried by the tool frame, steering members connected to the propelled frame, and members connecting the steering members and tool frame, said members serving to move the tool frame laterally of the cultivator independently of the forward movement of the cultivator upon lateral steering movement of the steering members for steering the propelled frame.

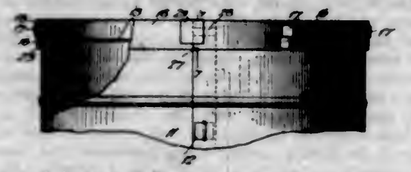
1,685,904. REEL CONSTRUCTION AND LENGTH-MEASURING MEANS. JAMES L. BURKE, Weehawken, N. J. Filed Mar. 2, 1921. Serial No. 449,120. 5 Claims. (Cl. 33—128.)



1. In a tape reel of the type comprising a hub and a coaxial disk to serve as a keeper, the disk including a scale comprising a plurality of segments extending obliquely, said disk being slitted lengthwise of said scale, whereby the outer convolution of tape wound upon the reel may readily be seen through the slitted portion in registry with a definite point of the scale, and indications adjacent said scale from which the length of tape may be readily ascertained.

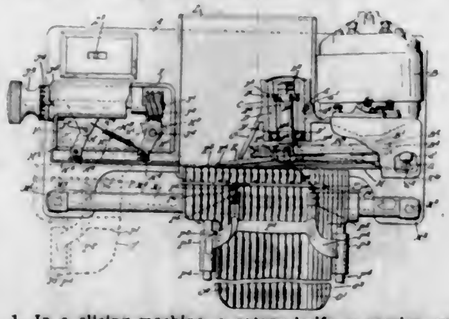
1,685,905. METAL SHIPPING CONTAINER. JOHN J. CAIN, Bayonne, N. J. Filed July 11, 1925. Serial No. 43,053. 6 Claims. (Cl. 220—59.)

1. In a metal shipping container, a circular body portion having reverse folds of the material at the outside of an open end forming a flange with a channel between the folds, a head having a peripheral flange adapted to be received in said channel between the walls of the body



folds, and tongues formed on one of said flanges and adapted to fold over the edge of the other flange to secure the head on the body.

1,685,906. SLICING MACHINE. WILLIAM J. CAMPBELL, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a Corporation of New York. Filed Oct. 21, 1926. Serial No. 143,082. 33 Claims. (Cl. 146—102.)



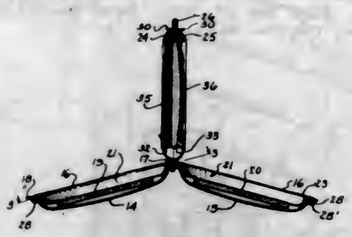
1. In a slicing machine, a rotary knife, a carrier, and means for guiding said carrier along a path across the face of said knife, including a pair of superposed vertically aligned tracks, and means for laterally adjusting said carrier in relation to one of said tracks, including a plurality of adjustable contact members mounted on said carrier and adapted to engage opposite sides of said track.

1,685,907. DEVICE FOR ELEVATING WATER. PAUL ARSÈNE CIROU, Tlemcen, Algeria. Filed Mar. 24, 1927, Serial No. 177,964, and in France May 6, 1926. 5 Claims. (Cl. 103—63.)



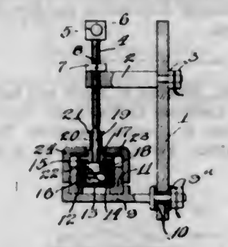
1. A device for elevating water comprising an endless belt, a plurality of buckets mounted on said belt, a casing surrounding a portion of said belt and adapted to fill said buckets when in the upright position and means in certain of said buckets for retaining a portion of their contents when inverted by said belt.

1,685,908. VANITY CASE. CHARLES N. CORYELL, Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 3, 1925. Serial No. 12,825. 23 Claims. (Cl. 132—83.)



1. A vanity case comprising a two-part body member, each part having a dish shaped portion and a rim forming an annular channel therebetween, one of said parts having a bead secured to its rim and engaged over the rim of the other part, each part having a strip struck out across said channel joining said dish shaped portion and rim to form a hinge loop, and cover sections cooperating with said loops.

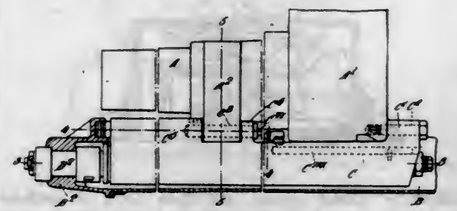
1,685,909. RECTIFYING DEVICE. NATHANIEL BANKS CROZIER, Chicago, Ill. Filed May 25, 1925. Serial No. 32,651. 3 Claims. (Cl. 250—31.)



1. A device of the class described comprising a receptacle adapted to support a detecting substance and a contact member adapted to be actuated to contact with said substance, a spring surrounding said member for holding the same in retracted position, and screw means adjustably supported above said member for engaging the same to contact position and means to prevent a complete revolution of said screw means.

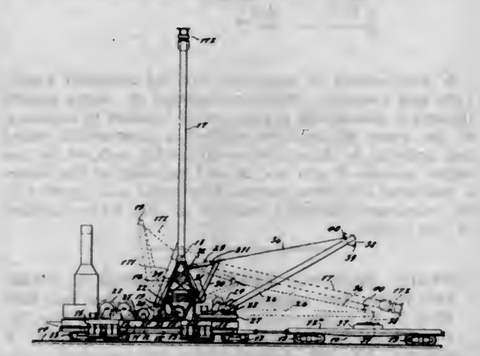
1,685,910. RECOIL AND RUN-OUT APPARATUS FOR ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Broadway, Westminster, England. Filed July 2, 1927, Serial No. 203,135, and in Great Britain Sept. 10, 1926. 11 Claims. (Cl. 89—43.)

1. In ordnance recoil and run-out apparatus for ordnance, the combination with a pneumatic recuperator cylinder and a recoil or brake cylinder the interior of which does not communicate with the interior of said recuperator cylinder, of a piston working in said recoil or brake cylinder, a separate piston working in said recuperator cylinder so as to compress the air therein during the recoil of the gun, and a rod of the latter piston made of large diameter and hollow to form a reservoir of the required volume to store the compressed air, the air from said recuperator cylinder passing to the interior of said hollow piston rod during the recoil of the gun and returning to said recuperator cylinder at the end of the recoil to act upon the second mentioned piston and effect the run-out of the gun.



6. In ordnance recoil and run-out apparatus for ordnance, the combination with a pneumatic recuperator cylinder and a recoil or brake cylinder, a body in which said cylinders are formed and an upwardly extending piece on said body constituting a thrust member against which the rear surface of the breech ring of the gun bears.

1,685,911. OVERHEAD CABLEWAY SKIDDING AND LOADING EQUIPMENT. MERIAN H. DICKINSON, Seattle, Wash., and JOSEPH H. DICKINSON, Winter Park, Fla., assignors to Lidgerwood Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Jan. 14, 1925. Serial No. 2,268. 7 Claims. (Cl. 212—46.)

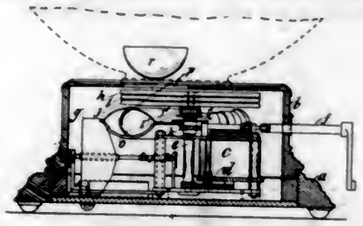


1. In combination, two movable platforms spaced from each other, each being mounted on trucks adapted to engage track rails, a hoisting boom mounted for horizontal movement on one of said platforms and pivotally mounted for movement in a vertical plane, and means for lowering said boom into supporting engagement with the other platform, a roller bearing being provided between said boom and said other platform.

1,685,912. APPARATUS FOR OBTAINING KALEIDOSCOPIC LIGHTING EFFECTS. ALFRED DUNHILL, London, England. Filed June 11, 1926, Serial No. 115,224, and in Great Britain Jan. 20, 1926. 2 Claims. (Cl. 240—49.)

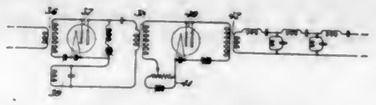
1. In a device of the kind described, a motor frame, a motor driven spindle supported therein, a series of concentric bushings nested one within the other on said spindle and having their ends in vertically spaced relation, gearing connecting the spindle and respective bushings to cause

the latter to revolve at different speeds from each other and from the spindle, a series of disks one of which is fixed on the spindle to revolve therewith and the others of which are fixed on respective bushings to revolve therewith, said disks being each provided with a series of transparent



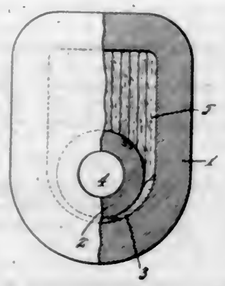
differently colored sectors, the disks being of uniform diameters, a casing covering said disks and having an opening therein to one side of the axis of the spindle and beneath which said disks rotate, and a light source supported within the casing beneath said opening.

1,685,913. RECORDING AND REPRODUCING OF SOUND WAVES. LLOYD ESPENSCHIED, Kew Gardens, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 17, 1919, Serial No. 345,591. Renewed Apr. 23, 1927. 24 Claims. (Cl. 179—100.1.)



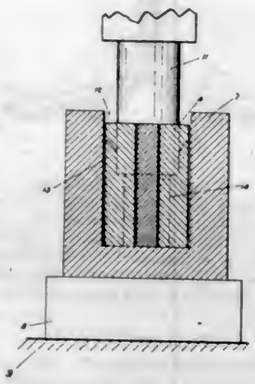
5. The method of correcting for the combined amplitude and resonance distortion suffered by waves passed through a phonograph system, which consists in imposing on the waves an amplitude distortion substantially equal and opposite to the amplitude distortion suffered by the waves because of said system, and imposing on the waves a resonance distortion substantially equal and opposite to the resonance distortion suffered by the waves because of said system.

1,685,914. ELECTRIC FURNACE. CHARLES B. FOLEY, Fort Wayne, Ind., assignor to Charles B. Foley, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 13, 1920, Serial No. 365,632. Renewed Feb. 23, 1928. 8 Claims. (Cl. 266—1.5.)



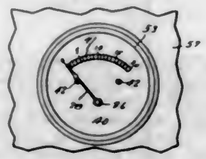
1. The process of making electric induction furnaces of the crucible type, which comprises reducing a refractory material to a finely divided state, fashioning the said material into a uniformly dense, highly compressed block, carving out the block to form half of a crucible, fashioning as an integral portion of the solid block near the bottom of the crucible portion, a tube having a constricted passage between the tube and the bottom and sides of the crucible, and uniting two blocks thus produced to form a complete furnace.

1,685,915. FABRICATION OF METALLIC THORIUM. WILLIAM BENJAMIN GERO, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed May 25, 1926. Serial No. 111,516. 7 Claims. (Cl. 29—160.5.)



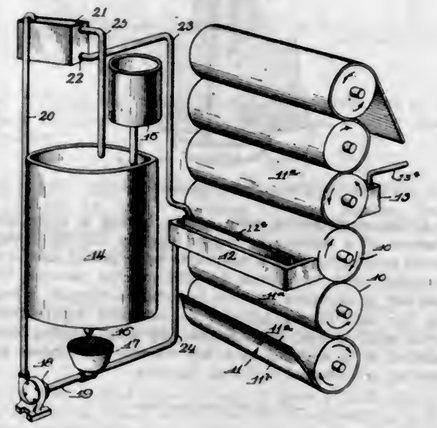
1. The method of compacting a rare refractory metal which comprises subjecting the metal in a coherent state to pressure and yieldingly restraining the flow of the metal while being pressed.

1,685,916. GAUGE. EDMUND E. HANS and ROBERT HENRY, Detroit, Mich., assignors to Walter M. Scott, Lakewood, Ohio, and Raleigh E. Tresise, Cleveland Heights, Ohio. Filed Apr. 20, 1925. Serial No. 24,389. 5 Claims. (Cl. 73—109.)



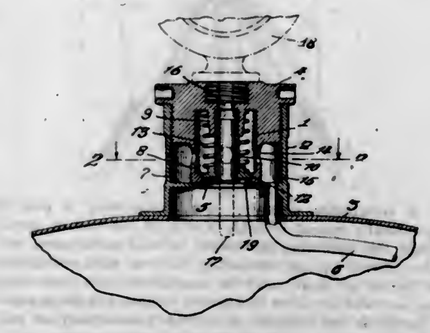
1. A gauge mechanism comprising an inlet nipple having a threaded portion and a reduced extension, a bracket carried by said reduced extension, a second bracket connected to and arranged in spaced relation to the first bracket, a spindle journaled in said brackets, an indicating needle connected to said spindle, a graduated dial disposed in operative relation to said indicating needle, stop pins disposed adjacent each end of the graduated portion of said dial, said stop pins serving to support said dial from the first mentioned bracket, a Bourdon tube having one end connected to said reduced extension, and means connecting the opposite end of said tube with said spindle, said means including a bendable element to provide a zero correction for said needle.

1,685,917. PROCESS FOR FINISHING AND COLORING PAPER AND PAPER MADE THEREBY. THOMAS HANS, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a Corporation of Delaware. Filed Feb. 21, 1927. Serial No. 169,856. 20 Claims. (Cl. 92—40.)



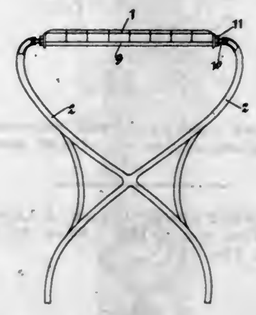
5. In the manufacture of paper from fluid, fibrous pulp, the process of introducing into and incorporating with the pulp only a part of the coloring matter required for the predetermined color tone and but part of the required sizing material, and of applying to the surface of the advancing paper sheet, after it has been dried but before it has been calendered, a thin liquid containing colored, paraffin treated tapioca powder.

1,685,918. CONDENSER. JOHN KARMAZIN, Detroit, Mich. Filed May 31, 1924. Serial No. 716,942. 6 Claims. (Cl. 220—24.)



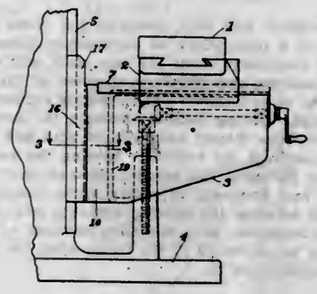
1. In an internal combustion engine radiator, a water chamber, a filling neck therefor, a ledge in said filling neck, an overflow tube projecting through said ledge and into said filling neck, a cap for said filling neck, a tubular projection on said cap adapted to form a fluid tight seal with said ledge, a valve in said projection, a spring normally holding the valve closed and a plurality of holes through the walls of said projection to permit fluid to flow from the water chamber through the same into the overflow tube when the valve is open.

1,685,919. BOW TROLLEY FOR ELECTRIC VEHICLES. ERWIN KRAMER, Berlin, Germany, assignor to Härtstoff-Metall Aktiengesellschaft (Hametag), Berlin-Copenick, Germany. Filed Nov. 7, 1925, Serial No. 67,546, and in Germany Nov. 11, 1924. 4 Claims. (Cl. 191—55.)



1. In combination with a bow-collector for street cars and the like, a sliding contact consisting of a porous body formed of powdered metal or metals of relatively light weight and graphite intimately and uniformly mixed therewith and compressed to the desired shape.

1,685,920. MACHINE-TOOL KNEE STRUCTURE. EDWARD J. KEARNEY, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a Corporation of Wisconsin. Filed Dec. 15, 1923. Serial No. 681,010. 5 Claims. (Cl. 90—58.)

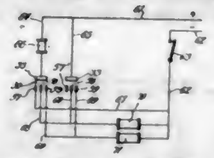


2. A machine tool knee structure having a slideway adapted to guide the structure for vertical movement, a plurality of side walls fixed with said slideway and extending in vertical planes, a channel thru said structure and having open ends, and a rib extending between said side walls to laterally strengthen both said walls and forming a closure for one side of said channel.

1,685,921. SELECTIVE CONTROL DEVICE. LESTER L. LADD, Chicago, Ill., assignor to Photometric Products Corporation, Chicago, Ill. Filed Nov. 8, 1920. Serial No. 422,561. 13 Claims. (Cl. 175—335.)

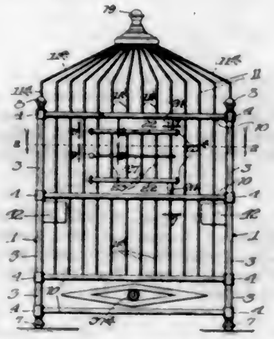
1. A selective control device comprising a controlling circuit, a set of contacts, a plurality of operating circuits electrically connected therewith, a second set of contacts arranged opposite said first set, a plurality of operating circuits electrically connected therewith, electro-magnets in certain of said operating circuits of each set, certain of said circuits having no electro-magnets therein and a movable contact making member operating between said sets of contacts and adapted to co-operate with any opposite

pair of said contacts to serially connect an operating circuit associated with one of said sets of contacts with an operating circuit associated with the other of said sets of



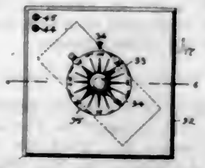
contacts to throw either two of said electro-magnets into operation simultaneously or one of said electro-magnets singly.

1,685,922. PARROT CAGE. LEWICKI J. LEON, West Chicago, Ill. Filed Nov. 6, 1925. Serial No. 67,229. 15 Claims. (Cl. 119—17.)



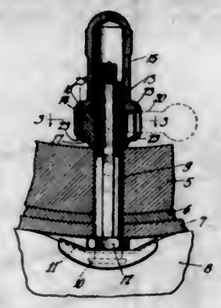
1. A portable bird cage, comprising a frame structure made up of a multiplicity of horizontally disposed units extending completely about the cage, each unit consisting of cross-members and couplings therefor at the adjacent ends of the cross-members and releasably connected therewith, upright spacing elements between the several units at the couplings thereof and engaged with and separated by said couplings for vertically spacing the units apart, means for clamping the spacing elements and couplings together, and upwardly extending wires making up the cage body between the spacing elements and having releasable connection with the cross-members so that the wires may be assembled in the frame after the latter has been completely set up.

1,685,923. WIRELESS SIGNALING APPARATUS. SAMUEL E. LEONARD, Jr., East Cleveland, Ohio. Filed Mar. 26, 1921. Serial No. 455,852. 1 Claim. (Cl. 250—11.)



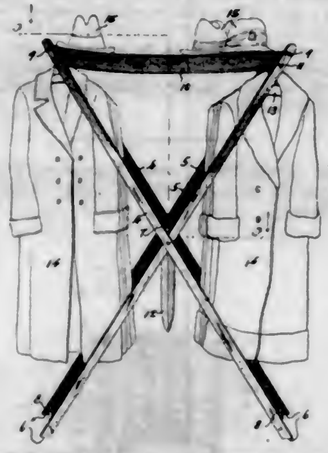
A wireless directional determining apparatus for use on ships, comprising a loop aerial adapted to be rotated manually, a compass card located upon the same axis as said loop aerial and means for rotating the compass card manually independently of said loop aerial and other points, and a calibration point moving into exact alignment with the ship's head or a point homologous to the ship's head to serve as a reference point with respect to said compass card.

1,685,924. TIRE-LOCKING DEVICE. MORSE C. LEE, Chicago, Ill. Filed Apr. 6, 1922, Serial No. 550,146. Renewed Jan. 28, 1924. 3 Claims. (Cl. 70—122.)



1. The combination with a tire having a valve stem thereon, of a member having an opening therein through which said valve stem is adaped to be projected, means for clamping said valve stem to said member movable into and out of clamping position by rotation thereof, a housing for said means mounted to normally rotate freely about said means, said means and said housing being adapted to be engaged by a key whereby said means and housing are adapted to rotate together.

1,685,925. COLLAPSIBLE GARMENT RACK. JOSEPH LINCK and ANNA JOEST, Newark, N. J. Filed Mar. 7, 1927. Serial No. 173,377. 5 Claims. (Cl. 211—178.)

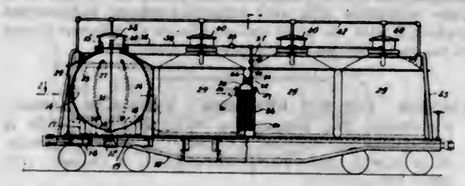


1. A collapsible garment rack, comprising a pair of longitudinally spaced foldable X-shaped end-frames, means to limit the unfolding movement of said end-frames, and means carried by and extending between said end-frames from which garments may be suspended, said suspending means and the adjacent end-frame members defining space for garments on hangers to extend transversely of said suspending means and beneath said limiting means.

1,685,926. MULTIUNIT TANK CAR. MAX MAURAN, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Sept. 15, 1926. Serial No. 135,554. 20 Claims. (Cl. 105—360.)

1. In a car of the type described, the combination of a body, a plurality of tanks mounted at different points lengthwise of the body, means for supporting each tank

comprising a continuous cradle member extending around the lower end of the tank and carrying the tank, a plurality of legs supporting the cradle member and mounted



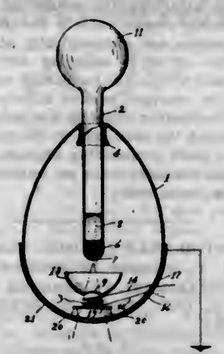
on the body, and means secured to the upper end of the tank for holding the latter in position on the cradle member.

1,685,927. METHOD AND APPARATUS FOR FUELING SHIPS AT SEA. THOMAS SPENCER MILLER, South Orange, N. J. Filed Dec. 12, 1922. Serial No. 606,488. 16 Claims. (Cl. 137—78.)



15. The method of supplying oil from a fueling ship to a ship to be fueled which consists in suspending a hose between said ships at a plurality of points throughout the length thereof, applying tension at a plurality of points on the hose in a direction substantially longitudinal of it to oppose sagging therein and passing oil through the hose.

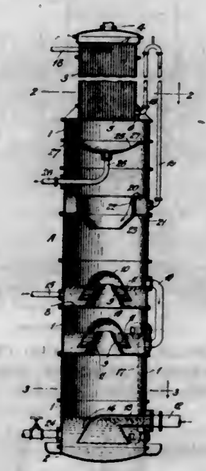
1,685,928. X-RAY TUBE. MONTFORD MORRISON, New York, N. Y. Filed June 9, 1921. Serial No. 476,155. 25 Claims. (Cl. 250—35.)



1. An X-ray device comprising an envelope of ovoidal configuration, an anti-cathode sealed in the small portion of said envelope and a cathode and focusing device disposed in the larger portion of said envelope, the shape of said envelope conforming substantially to the lines of force representing the electrical field between the cathode, focusing device and anti-cathode.

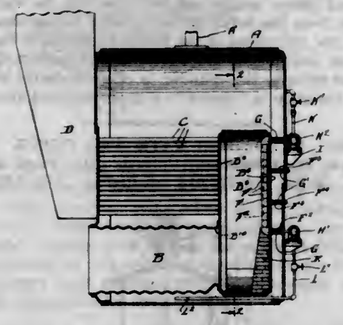
1,685,929. CAUSTICIZING UNIT. WILLIAM D. MOUNT, Lynchburg, Va. Filed Oct. 16, 1922. Serial No. 594,859. 9 Claims. (Cl. 23—283.)

1. In a causticizing unit, a casing, connections thereto by which one chemical may be passed through the casing, means for admitting the second chemical to the moving body of the first chemical, means for bubbling a hot gas through the moving mixture of chemicals to heat and agitate the mixture, and a heat interchange unit through one part of which the exhaust gas passes and through the



other part of which one of the ingoing chemicals passes out of direct contact with the exhaust gas so as to be heated preliminarily thereby.

1,685,930. SUPERHEATER FOR SCOTCH BOILERS. JOSEPH JOHN NELIS, Brooklyn, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 28, 1924. Serial No. 695,679. 2 Claims. (Cl. 122—469.)

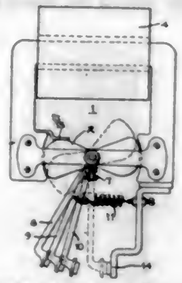


1. In a boiler of the type comprising an internal combustion chamber with a portion of the wall thereof separated from the boiler shell by a portion of the water space and stay tubes connecting said wall portion and shell, the improvement which consists in a superheater formed of tubular elements having body portions arranged to form a lining for a substantial part of said wall portion and having transversely extending supports connected to the body portions at intervals along their lengths and extending through said stay tubes.

1,685,931. ACCELERATING RELAY. NIELS K. ANDERSEN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 10, 1922. Serial No. 600,001. 2 Claims. (Cl. 200—104.)

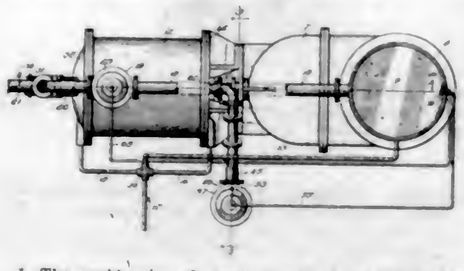
1. An accelerating relay comprising a rotatable armature and a shaft therefor, a plurality of fingers mounted

radially on the shaft in staggered relation to each other, movable contact members operated by the fingers, means



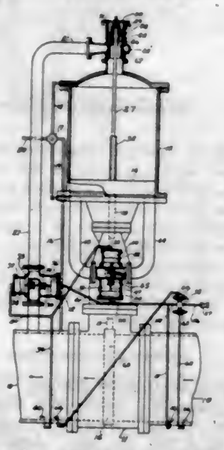
for separately biasing each of said fingers to a closed circuit position, a field-magnet winding for biasing said armature to actuate said fingers to an open circuit position.

1,685,932. HYDRAULIC GATE AND CHECK VALVE. WALTER B. ANDERSSON, Chicago, Ill. Filed Jan. 15, 1926. Serial No. 81,400. 4 Claims. (Cl. 137—139.)



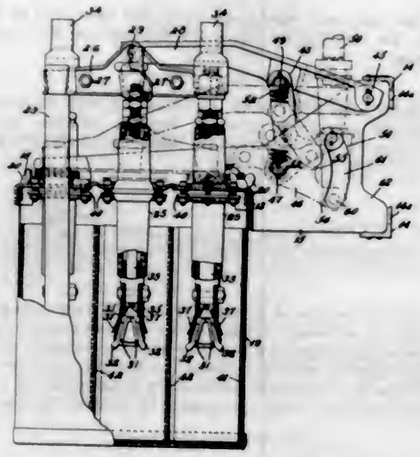
1. The combination of a main, a valve in said main, cylinder and piston mechanism for actuating the valve, connections from the main to the cylinder for manually controlling the movement of the piston by means of fluid from the main and means for automatically admitting water from the main to the cylinder to close the valve when the flow in the main is reduced to a predetermined amount.

1,685,933. HYDRAULIC GATE AND CHECK VALVE. WALTER B. ANDERSSON, Chicago, Ill. Filed Mar. 14, 1927. Serial No. 175,286. 5 Claims. (Cl. 137—139.)



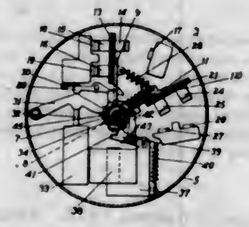
1. The combination with a water main, of a valve for closing the same, a cylinder and piston for actuating the valve, a connection from the main to the cylinder, valves for controlling the cylinder inlet and outlets, fluid operated means for actuating said valves, connections from the main to the fluid operating means, an outlet valve for said fluid operated means, means for actuating the outlet valve, pipes connected with said actuating means, and nozzles connected with the pipes and positioned at different points in the main, as and for the purpose described.

1,685,934. CIRCUIT BREAKER. ANDREW H. BAKKEN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 9, 1921. Serial No. 483,384. 6 Claims. (Cl. 200—153.)



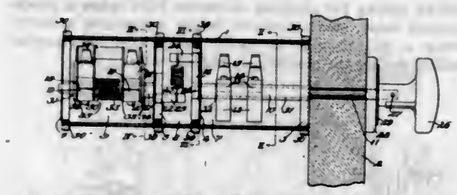
1. In a circuit breaker, the combination of a pressed metal supporting member provided with openings therethrough, insulating members extending through the openings, means for attaching the insulating members to the supporting member, means whereby the insulating and the supporting members are automatically aligned regardless of irregularities on their engaging surfaces, conductor members disposed within the insulating members and each provided with an enlarged portion adjacent to one end of its associated insulating member, the enlarged portion of the conductor and the said end of the insulating member being provided with cooperating engaging faces of such contour that the conductors are non-rotatable with respect to the insulating members.

1,685,935. MOTOR SNAP SWITCH. HAROLD G. BAXTER, Baldwin, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 1, 1923. Serial No. 622,052. 22 Claims. (Cl. 200—89.)



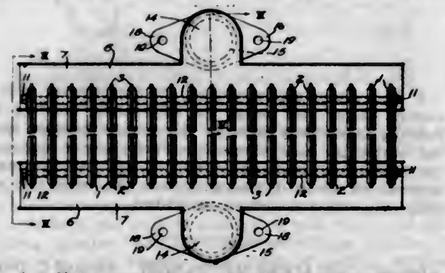
21. A motor-starting switch comprising a running switch, a starting switch, an electro-magnet for controlling the running switch connected in the running switch circuit and means for rendering the electromagnet operative at lower current values when the starting switch is open.

1,685,936. FIELD DISCHARGE SWITCH. JAMES M. BROWN, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 23, 1920. Serial No. 353,405. 1 Claim. (Cl. 200—1.)



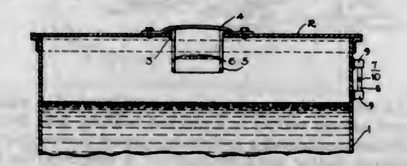
In an electric switching device, the combination with a holding member provided with two end compartments and one central compartment, of a switch member rotatably mounted in one of the said end compartments, a means external to the said holding member for operating the said switch member, an arm rotatably mounted in the central compartment and coacting with the said switch member, a second switch member rotatably mounted in the opposite end compartment, a second arm rotatably mounted in the said central compartment and coacting with the said second switch member, and a resilient means attached to the said arms for ensuring coaction thereof.

1,685,937. RADIATOR. WALTER M. DANN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 8, 1921. Serial No. 435,958. 4 Claims. (Cl. 257—191.)



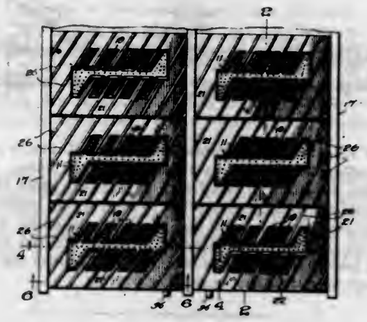
1. A radiator comprising a plurality of cooling elements each comprising a pair of complementary sections provided with outwardly extending channel portions, said channel portions being adapted to form tubular projections when said sections are secured together, and a plurality of header members communicating with said projections and off-set with respect to said cooling elements, whereby said header members are substantially without the area of vertical projection of said cooling elements.

1,685,938. INDICATING DEVICE. WALTER M. DANN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1922. Serial No. 590,207. 11 Claims. (Cl. 23—252.)



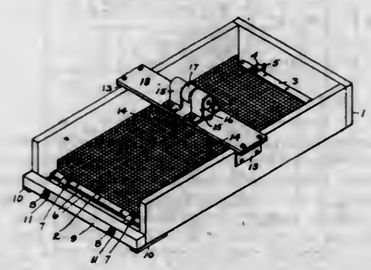
9. The combination with a container having therein a medium comprising a plurality of gases, of means for changing the relative proportions of said gases, and means controlled by said medium for indicating a condition of said first named means.

1,685,939. GRATE. ARTHUR W. DAYTON, Newark, Ohio. Filed July 24, 1926. Serial No. 124,746. 4 Claims. (Cl. 110—74.)



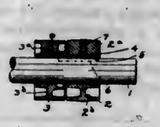
1. A grate comprising bearing members, a plurality of hollow stationary members, shafts secured to said stationary members and to said bearing members, rocking members pivotally mounted on said shafts and adapted to rock thereon, and means for rocking said rocking members.

1,685,940. VIBRATING SCREEN. EMIL DEISTER, Fort Wayne, Ind. Filed May 24, 1926. Serial No. 111,223. 2 Claims. (Cl. 209—346.)



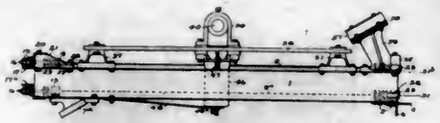
1. The combination with a frame, a screening medium flexibly supported in tension on the frame, a flat elastic member rigidly secured to the frame, and extending transversely of the same, motion transmitting means secured to the elastic member and to the screening medium, and means mounted on and rigidly secured to the elastic member to vibrate said member and cause the said medium to vibrate independently of the frame.

1,685,941. VIBRATING MOTION-PRODUCING MECHANISM. EMIL DEISTER, Fort Wayne, Ind. Filed May 24, 1926. Serial No. 111,224. 3 Claims. (Cl. 74—14.)



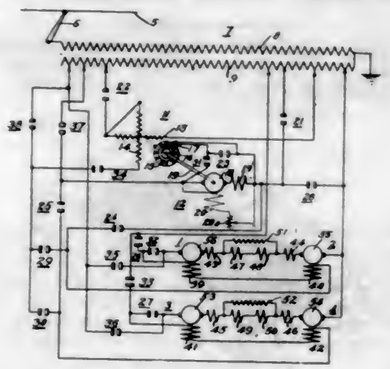
3. A mechanism to product vibratory motion comprising a revolubly mounted shaft, a pair of unbalanced members on the shaft one of which is secured to the shaft, a fixed member adapted to engage the other unbalanced member at any one of a plurality of peripherally spaced points for controlling peripheral adjustment of said unbalanced member on the shaft.

1,685,942. SCREENING MECHANISM. EMIL DEISTER, Fort Wayne, Ind. Filed May 24, 1926. Serial No. 111,225. 7 Claims. (Cl. 209—347.)



1. A vibrating screen comprising a main frame, a screening medium supported in tension on the frame, spring members mounted on the frame at opposite sides thereof, a transmitter member connected to each spring member and having engagement with the screening medium, a shaft revolubly supported in bearings rigidly secured to both spring members and means on the shaft to cause the spring members to vibrate as the shaft is rotated.

1,685,943. SYSTEM OF CONTROL. JOHN V. DOBSON, Forest Hills, and MAURICE F. JONES, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 27, 1922. Serial No. 556,828. 10 Claims. (Cl. 172—276.)



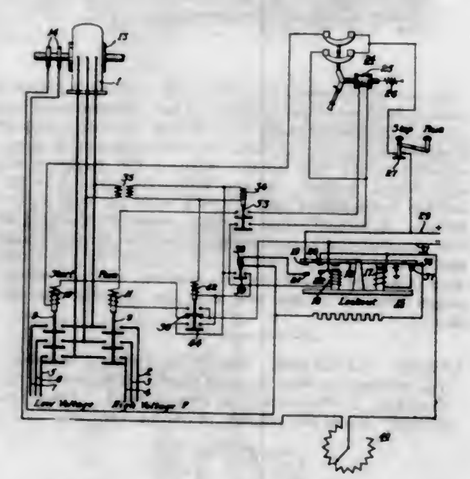
1. In a motor-control system, the combination with a plurality of motors, a plurality of supply sources of different kinds of electrical energy, and means for consecutively connecting said motors to said sources without rendering all of the motors simultaneously inoperative.

2. In a motor-control system, the combination with a dynamo-electric machine adapted to act both as a motor and a generator, of a plurality of sources of different kinds of electrical energy, means for consecutively energizing said motor from said sources, and means comprising a power-factor correcting device for governing said motor during the regenerative period.

3. In a motor-control system, the combination with a motor adapted for both acceleration and regeneration, of a source of alternating current for energizing said motor, means comprising a phase-converter for governing said motor during regeneration, and means comprising a generator for energizing said motor with direct-current during the starting period.

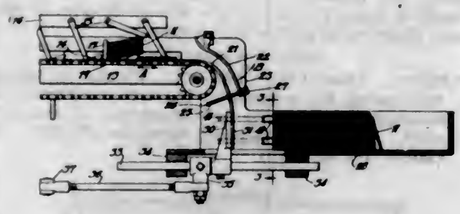
1,685,944. SYNCHRONOUS MOTOR STARTER. CHESTER W. DRAKE, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1920. Serial No. 389,597. 7 Claims. (Cl. 171—118.)

1. In a motor control system, the combination with an alternating-current motor having a field-magnet winding and switching mechanism for establishing main starting and running connections for said motor, of means for energising said winding during normal operation of said motor, and automatic means for effecting the establishing of said running connections and the connection of said winding to said energizing means when the current traversing said winding during the starting operation falls below a predetermined value, said automatic means comprising a switch having a coil that is in circuit with said field-magnet winding during the starting operation only.



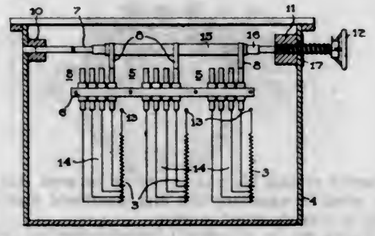
6. In a motor control system, the combination with an electric motor and means for establishing starting and running connections therefor, of manually-operable means for controlling said connections comprising a manually-operable switch and means operable to retain said manually-operable switch in its closed position only when said running connections have been established.

1,685,945. DELIVERY MECHANISM. NORMAN C. DRAKE, Brooklyn, N. Y., assignor to Redfield-Kendrick-Odell Co. Inc., New York, N. Y., a Corporation of New York. Filed Oct. 6, 1926. Serial No. 139,770. 5 Claims. (Cl. 271—87.)



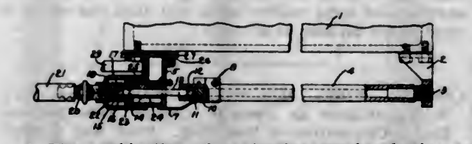
1. A delivery mechanism for use with a machine adapted to eject printed matter in a stacked relation, said delivery mechanism comprising a receptacle adapted to receive stacks of printed matter one after another, a reciprocating head adapted to successively move the stacks of printed matter from one end of said receptacle towards the other end thereof, and relatively movable guiding elements for guiding the stacks of printed matter into said receptacle, one of said guiding elements being carried by said head.

1,685,946. ELECTRICAL TRANSFORMER. ALFRED GEORGE ELLIS, Hale, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 19, 1923, Serial No. 640,245, and in Great Britain June 20, 1922. 4 Claims. (Cl. 171—119.)



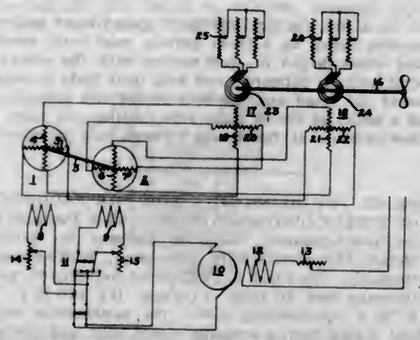
1. In a transformer structure, a casing, a plurality of windings therein, a plurality of stationary contact members connected to said windings, a shaft mounted in said casing, means for longitudinally moving said shaft at uniform speed during rotation thereof, and contact members mounted on said shaft for engagement with said stationary contact members.

1,685,947. THERMOSTATIC CONTROL FOR IRONING MACHINES. HARRY D. ELSE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1924. Serial No. 713,437. 11 Claims. (Cl. 236—7.)



1. The combination of an ironing member having an opening therein for the passage of fluid, a valve for restricting said opening, a second member having a connection with said valve, said second member being operative on the movement of the ironing member in one direction to vary the relative position of said valve and said ironing member, said connection permitting rotation of said valve with respect to said second member without varying the relative longitudinal position of said valve and said second member.

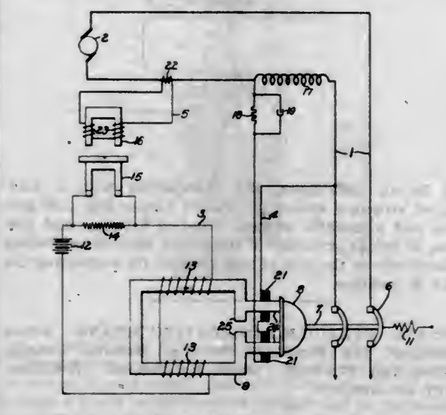
1,685,948. SYSTEM OF CONTROL. ALLAN BERTRAM FIELD, Marple, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 30, 1923, Serial No. 615,803, and in Great Britain Feb. 1, 1922. 5 Claims. (Cl. 172—237.)



3. A system of control comprising a plurality of two-phase generators, a plurality of synchronous motors each having its phase windings connected to the respective windings of the several generators, and means for simultaneously reversing the excitation of one motor and one of said generators.

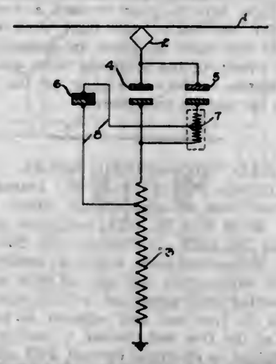
4. A system of control comprising a plurality of two-phase generators, a plurality of synchronous motors adapted to drive a common load and severally having their phase windings mutually cross-connected to the phase windings of the respective generators and means for reversing the excitation of one of said motors when the direction of operation of said load is to be reversed.

1,685,949. HIGH-SPEED CIRCUIT INTERRUPTER. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 11, 1922. Serial No. 606,142. 9 Claims. (Cl. 175—294.)



1. The combination with an electrical circuit, of a quick-acting circuit-interrupting mechanism comprising a magnetizable member, a coil for normally magnetizing the said member, an armature adapted to be attracted by said magnetizable member, bias means adapted to oppose said attraction, means responsive to sudden variations in said electrical circuit for controlling said magnetizable member, and means for de-magnetizing said member under overload in said electrical circuit.

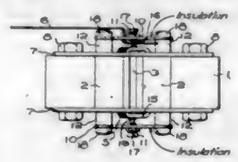
1,685,950. CIRCUIT-INTERRUPTER SYSTEM. LLOYD J. HIBBARD, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 10, 1922. Serial No. 567,411. 8 Claims. (Cl. 175—294.)



1. The combination with a transformer and a supply circuit therefor, of a main switch for interrupting the

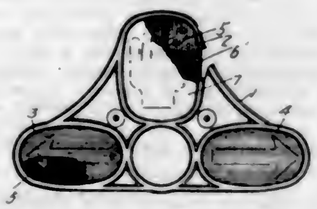
flow of current to the transformer, a reactor in shunt relation to the main switch, an auxiliary switch between the reactor and the supply circuit, an auxiliary circuit connected across end turns of the transformer and including a portion of the reactor, and a switch for controlling the flow of current through the reactor.

1,685,951. INSTRUMENT STRUCTURE. PAUL MACGAHAN, Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 17, 1926. Serial No. 123,204. 6 Claims. (Cl. 171—95.)



1. In an instrument, the combination with a field-magnet structure embodying spaced cooperating pole portions and a movable element disposed between said portions, of bridge structure of insulating material extending transversely to the axis of said element for supporting the same in position.

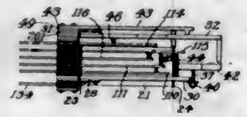
1,685,952. STENCILED INDICATING MEANS. ALLAN ROLAND PYE JOHNSON, Toronto, Ontario, Canada. Filed July 27, 1927. Serial No. 208,847. 3 Claims. (Cl. 40—135.)



3. An indicator adapted to be illuminated and comprising an inner transparent suitably colored sheet, means permitting light rays to pass through a portion of the sheet and for obstructing the light rays through the remainder of the sheet to form an opaque background and a sheet overlying the aforesaid sheet and of a color tending to merge or tone the color of the transparent portion into the opaque background.

1,685,953. ELECTROMAGNETIC RELAY. GEORGE ALBEN E. LUNDELL, New York, N. Y.; Jeannette Dolores Lundell executrix of said George Alben E. Lundell, deceased. Filed Mar. 21, 1921. Serial No. 453,958. Renewed Aug. 31, 1927. 3 Claims. (Cl. 200—103.)

1. In an electro-magnetic relay, a double pole-piece, an armature adjacent to one side of said pole piece, a spring retracting said armature, a stud secured to said armature at its free end and adapted to press against said spring at the free end thereof, a contact spring normally maintained in electrical contact with said retractive spring at a point between said stud and the rigid end of said retractive spring, a second armature adjacent to the opposite side of said pole piece, a spring retracting said armature, a stud secured to said armature and adapted to press against said spring, and a contact between said

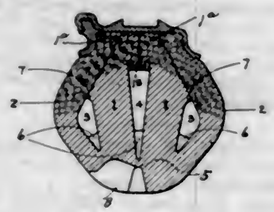


retractive springs for making contact between said springs at a point intermediate said first mentioned stud and the point of said electrical contact.

1,685,954. METHOD OF FIXING A THIN LAYER OF SPONGE RUBBER TO THE SURFACE OF INDIA-RUBBER GOODS. SATARO MORIMOTO, Minamikatsushika-Gun, Tokyo-Fu, Japan. Filed Apr. 14, 1927, Serial No. 183,907, and in Japan June 24, 1926. 1 Claim. (Cl. 18—53.)

A method of fixing a thin layer of sponge rubber to the surface of india rubber goods, in which the india rubber solution obtained by dissolving unvulcanized india rubber in a suitable solvent and adding to this solution ordinary mixtures and the materials which convert ordinary india rubber into spongy rubber, is applied to the surface of unvulcanized india rubber goods and then the whole is cured by hot process, as set forth.

1,685,955. TIRE. MAX CYRUS OVERMAN, New York, N. Y., assignor to Overman Cushion Tire Company Inc., a Corporation of New York. Filed May 6, 1922. Serial No. 559,006. 13 Claims. (Cl. 152—1.)

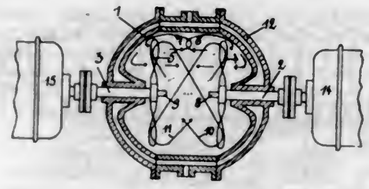


1. In a tire, the combination of spaced inner and outer members united by a tread portion, said outer members being elbow-shaped in cross-section with the elbows directed laterally outwardly and with their limbs converging toward the tread and the base of the tire respectively; and a series of spaced cross-webs uniting said inner and outer members at the spaces between said members.

1,685,956. WHIRLING MILL FOR THE PRODUCTION OF FINELY-DIVIDED POWDER. EMIL PODSZUS, Berlin-Friedrichshagen, Germany, assignor to Hartstoff-Metall Aktiengesellschaft (Hametag), Berlin-Copenick, Germany. Filed Oct. 8, 1923, Serial No. 667,163, and in Germany Sept. 21, 1923. 4 Claims. (Cl. 83—11.)

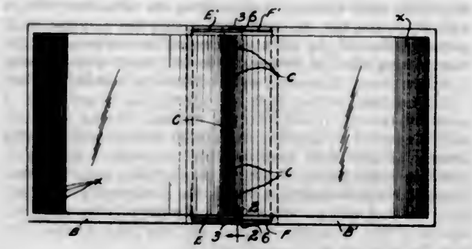
1. In a comminuting device, the combination with a closed casing having normally closed inlet and discharge openings, of rotatably journalled oppositely positioned air propellers adapted to revolve in opposite directions and

of a pitch to produce an axial thrust of the air within the said casing toward its center, thereby producing constantly mutually impinging rapid whirling air currents, said cas-



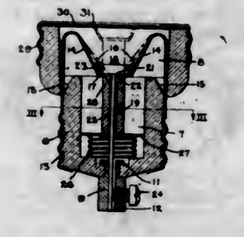
ing having recesses disposed rearwardly of the propellers comprising curved walls, and means for rotating the said propellers.

1,685,957. LOOSE-LEAF BINDER. ADOLPH RUBIN, St. Louis, Mo., assignor to Sieber Products Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 16, 1926. Serial No. 129,416. 6 Claims. (Cl. 129—13.)



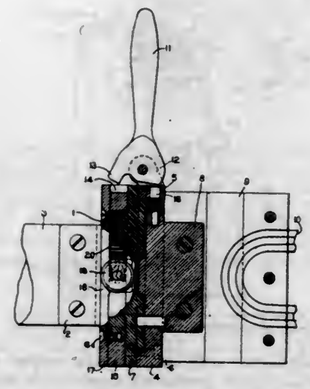
1. A loose leaf binder, comprising opposed leaf-clamping members, a guide attached to one of said members, a cooperating slide embraced by said guide and attached to the other leaf-clamping member, a locking device on said guide arranged so that when it is turned into a certain position it will exert sufficient pressure on said slide to prevent it from moving longitudinally of said guide, and means for limiting the turning movement of said locking device.

1,685,958. THERMAL CUT-OUT. MAURITS J. SANDIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 23, 1923, Serial No. 614,378. Renewed Sept. 18, 1926. 11 Claims. (Cl. 200—123.)



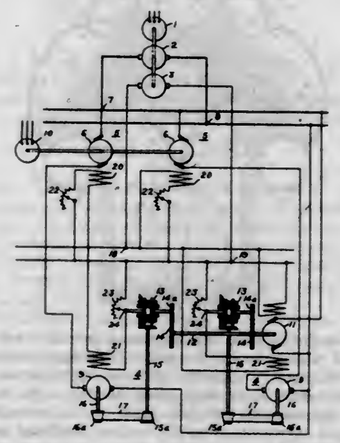
1. In a cut-out for electric circuits, the combination with a pair of relatively movable terminal members and a thermally-responsive heating conductor releasably connecting the terminal members and adapted to open the circuit when the conductor attains a predetermined temperature, of a heat-absorbing member surrounding the conductor and influencing the heating characteristics of the conductor.

1,685,959. SWIVEL HEAD FOR COIL-PULLING MACHINES. LEE B. SCHMERBER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 5, 1923. Serial No. 622,842. 6 Claims. (Cl. 153—11.)



1. A swivel head for a coil-forming machine comprising a base member, a swivel member rotatably mounted thereon, means on said swivel member for engaging a coil to be formed, a finger on said swivel member and an adjustable stop member on said base member for engaging said finger.

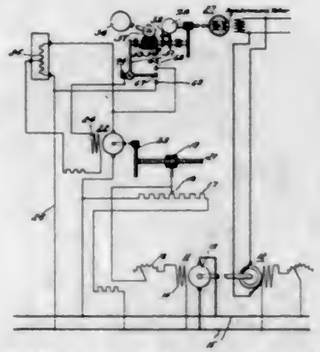
1,685,960. REGULATOR SYSTEM. FERDINAND SCHILLER, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 8, 1926, Serial No. 153,361, and in Germany Feb. 4, 1926. 12 Claims. (Cl. 172—293.)



1. A motor-control system comprising a plurality of driving motors, a plurality of boosters connected in series relation with said driving motors, a motor for driving said

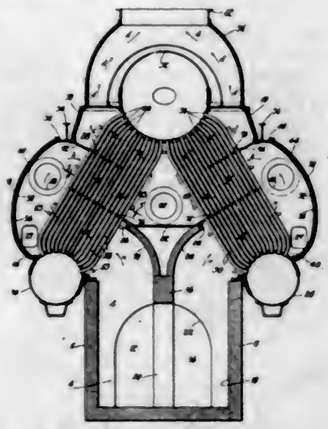
boosters, a control motor, and means responsive to variations in speed between said control motor and the driving motors to vary the excitation to said driving motors and said boosters to maintain a substantially uniform speed of the driving motors.

1,685,961. FREQUENCY REGULATOR. BENJAMIN H. SMITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 31, 1921. Serial No. 441,216. 41 Claims. (Cl. 172—293.)



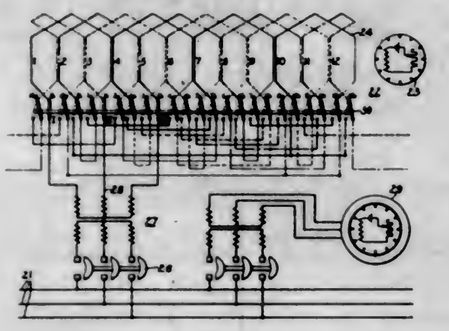
1. In combination with an alternating-current circuit, of a synchronous motor operatively connected to said circuit, master escapement means actuated by said motor, a differential device between said motor and said escapement means, and control means adapted to be operated in accordance with the movements of said differential device.

1,685,962. BOILER. WILLIAM W. SMITH, Jersey City, N. J. Filed Dec. 15, 1923. Serial No. 680,901. 1 Claim. (Cl. 122—7.)



A boiler including in combination a pair of lower drums, a central wall between the latter, a steam header above said central wall, a plurality of banks of tubes connecting said lower drums and said steam header, baffle walls extending transversely of said tubes, roofs extending upwardly and outwardly from said central wall and terminating at said baffle walls, side walls parallel with said central wall terminating adjacent said lower drums, curved side shells forming outer walls opposite said tubes and a casing connected with said side shells enclosing part of said steam header and having a gas outlet formed therein.

1,685,963. ALTERNATING-CURRENT TRANSMISSION SYSTEM. MARVIN W. SMITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 29, 1924. Serial No. 709,848. 17 Claims. (Cl. 172—237.)

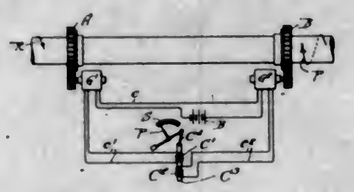


1. The combination with an alternating-current line, a dynamo-electric machine connected to said line and exciting means for said machine, said line being of such length and voltage that the line-charging current tends to additionally magnetize said machine and produce an excessive voltage rise, of means for, at times, decreasing the relative magnetizing effect of the armature current as compared to the magnetizing effect of the current in said exciting means and, at other times, increasing said relative magnetizing effect.

2. The combination with an alternating-current line, a constant-voltage dynamo-electric machine having an armature connected to said line and a field member and exciting means for said field member, the line current flowing in said armature being, at times, magnetizing and, at other times, demagnetizing, and means for so changing the characteristics of said machine as to vary the relative magnetic effects of the armature current and the field member current for currents of the same values.

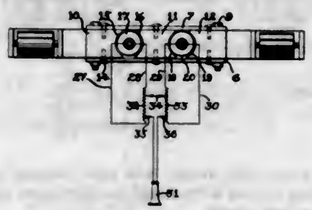
17. The method of operating a long, high-voltage alternating-current line of substantially constant voltage at a terminal thereof, in combination with a dynamo-electric machine having an armature winding connected to said line at said terminal and also having a field-magnet member excited by direct current, the current in said armature winding having a magnetizing or demagnetizing reaction depending on its phase with respect to the voltage, which consists in so connecting the armature winding as to generate the maximum possible voltage when the armatpre reaction is demagnetizing and in changing the armature-winding connections in such manner as to reduce the armature reaction and require a larger excitation on the field member to produce the required voltage when the armature reaction is magnetizing.

1,685,964. ELECTRIC TORSION POWER METER. WILLIAM W. SMITH and ROBERT W. ERICKSON, Jersey City, N. J. Filed July 22, 1924. Serial No. 727,472. 4 Claims. (Cl. 265—26.)



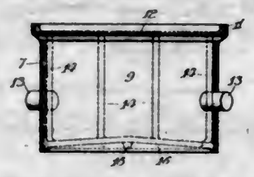
1. An apparatus of the class described comprising means for measuring torsion including two current producing members operatively connected to the member whose torsion is to be measured and an oscillograph for indicating the phase relations between the currents produced by said members whereby the torsion can be determined, said oscillograph being actuated by said currents.

1,685,965. MAGNETIC TESTING APPARATUS AND METHOD OF TESTING. THOMAS SPOONER, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 27, 1922. Serial No. 590,813. 7 Claims. (Cl. 175—183.)



3. Apparatus for testing a piece of metal having a strained place, comprising means for passing a magnetic flux through said piece across said strained place and an adjacent unstrained place, a pair of magnetic yokes comprising contact members for simultaneously shunting off a portion of the magnetic flux through shunt paths of equal reluctances at both of said places, dynamo means for securing electromotive forces of rotation responsive to the fluxes in the respective shunt paths, and means for comparing said electromotive forces.

1,685,966. ANNEALING POT. ROBERT S. STEWART, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 30, 1927. Serial No. 222,994. 3 Claims. (Cl. 263—49.)



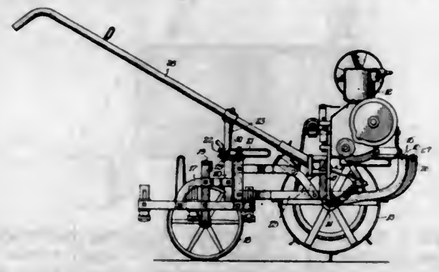
1. An annealing pot having an excess of metal on the inside of each corner to reinforce and strengthen the corner and to compensate for oxidation and wear on the outside of the corner of the pot.

1,685,967. BURNER. WILLIAM J. SULLIVAN, Chicago, Ill., assignor of one-half to C. P. Mertens, Chicago, Ill. Filed Dec. 8, 1924. Serial No. 754,467. 5 Claims. (Cl. 158—74.)



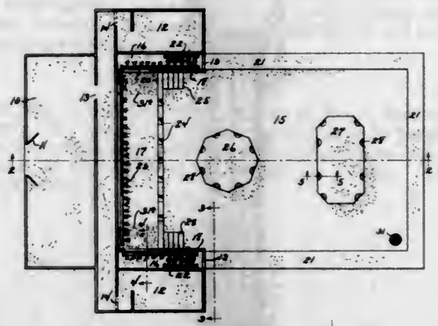
1. In a burner of the class described, a mixing chamber, a partition dividing the mixing chamber into chambers communicating about the periphery of said diaphragm, a nozzle connected with one of said chambers, means for supplying oil and steam to the other of said chambers and directing the steam and oil against said partition and an air supply pipe extending through said partition and into said nozzle.

1,685,968. TRACTOR AND HITCH CONSTRUCTION. CHARLES J. TRAVERS, Port Washington, Wis., assignor to Gilson Manufacturing Company, Port Washington, Wis., a Corporation of Wisconsin. Filed July 3, 1924. Serial No. 723,854. 4 Claims. (Cl. 180—19.)



1. In a power cultivator, power propelled ground engaging steering means, a main frame carried by said means, a wheeled tractor hitch, the wheels being controlled in direction by the hitch, a single pivot upon said main frame in advance of the ground enguging steering means and means connecting the hitch to said pivot, the hitch being free to swing in a horizontal plane about said pivot.

1,685,969. SWIMMING POOL. JOSEPH M. VIETTI, Clinton, Ind. Filed Aug. 1, 1927. Serial No. 209,896. 7 Claims. (Cl. 4—172.)



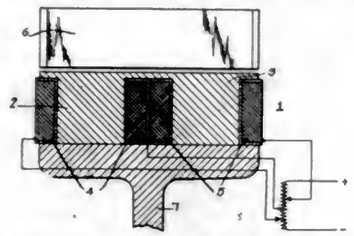
1. In a device of the character described, a swimming pool, check rooms adjacent said pool, wading pools between said check rooms and swimming pool, and showers guarding all passages from the wading pools to the swimming pool.

1,685,970. DYNAMO-ELECTRIC MACHINE. ROBERT TOWNEND, Chorlton-cum-Hardy, and JAN ARTHUR KUYSER, Sale, England, assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 12, 1922, Serial No. 581,347, and in Great Britain Aug. 15, 1921. Renewed Apr. 16, 1928. 31 Claims. (Cl. 172—246.)

1. The method of preventing or restricting the rise of voltage in an alternator when employed for charging up electric transmission lines, said alternator having a stator member and a rotor member, which consists in causing magnetic saturation to occur at lower values of magnetomotive force in one of said members during the charging operation.

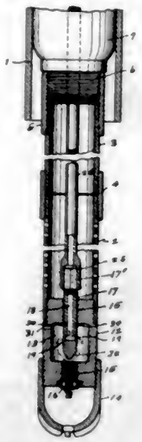
2. The method of operating a synchronous dynamo-electric machine connected to an alternating-current transmission line of such length and voltage that the line charging current tends to produce excessive rise in voltage during light-load operation, which consists in causing

the machine to require a larger total excitation to maintain a given voltage during light-load operation of the line than during normal load operation.



24. A regulating system for an alternating-current synchronous generator which is adapted to supply a load of such a character that the excitation produced by the armature current is sufficient to cause the voltage of the generator to build up to an abnormal value, characterized by the fact that means are provided for varying the reluctance of the magnetic structure of the generator whereby the amount of flux produced by a given amount of armature current may be varied to regulate the voltage of said generator.

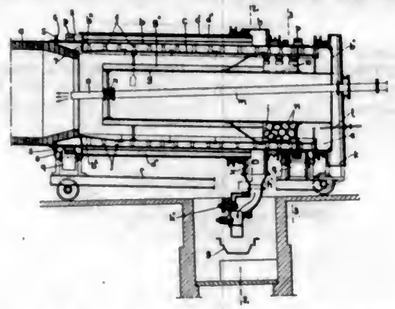
1,685,971. SCREEN-SETTING APPARATUS. JOSEPH DARK ADAMS, Beaumont, Tex. Filed Sept. 16, 1927. Serial No. 219,919. 7 Claims. (Cl. 166—20.)



1. The combination with a well screen, of means for closing the lower end thereof, said means including an anchor attached to the lower end of the screen and having a threaded bore, a downwardly opening back pressure valve controlling said bore a safety plug having a threaded connection with said anchor and having a fluid channel leading downwardly therethrough, from the upper end thereof, and terminating in a lateral port and through which fluid may pass from the interior of the screen through said bore, said plug being adapted to be screwed down into the bore to block both said port and bore.

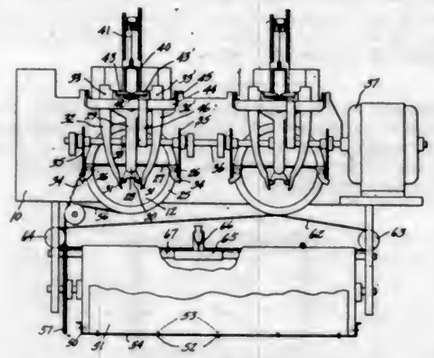
1,685,972. ROTARY FURNACE. ERNST AMME, Brunswick, and KARL DIENST, Frankfort-on-the-Main, Germany, and DAVID J. UHLE, Allentown, Pa. Filed Feb. 25, 1927, Serial No. 171,029, and in Germany Jan. 31, 1927. 4 Claims. (Cl. 263—36.)

1. A rotary furnace comprising a rotary heating drum, heating means, a rotary cooling drum in axial alignment with said heating drum and removable therefrom, said cooling drum comprising a plurality of concentric cylinders having annular chambers provided between the same communicating respectively with the inner part of the cooling drum and with each other at opposite ends, elevating ribs



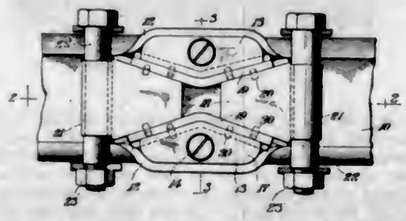
projecting from said drums into said annular chambers, disintegrating means within said cooling drum, and means for rotating said drums.

1,685,973. TESTING APPARATUS. ROLAND B. ALEXANDER and WILLIAM HOWARD ROWAN, Detroit, Mich. Filed May 23, 1925. Serial No. 32,374. 13 Claims. (Cl. 234—5.5.)



1. Means for recording comparative temperature effects upon two bodies comprising means for subjecting both bodies to gradual heating means for measuring the temperature of one body, means for measuring the differences in temperature between the two bodies, and means for producing a record indication showing the continuous variations of both said measured quantities.

1,685,974. TWO-RIM VEHICLE WHEEL. FREDERICK WILLIAM BAKER, Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 25, 1926. Serial No. 131,509. 5 Claims. (Cl. 152—36.)



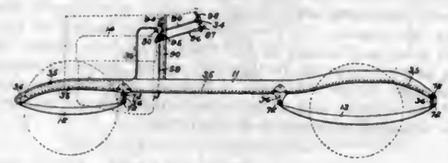
1. A vehicle wheel having spaced concentric rims, spaced abutments with oppositely inclined sides on one rim, abutments on the second rim wedging between those of the first rim and removably coupled to said second rim, and a yielding packing between the wedging abutments.

1,685,975. ALLOY. GEORGE H. BENDER, Detroit, Mich. Filed Apr. 4, 1927. Serial No. 181,004. 1 Claim. (Cl. 75—1.)

An alloy consisting in substantially the proportions herein set out, of—

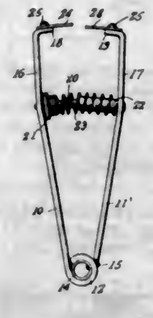
	Parts.
Copper	70 3/10
Tin	24 53/100
Lead	5 2/10

1,685,976. LUBRICATING SYSTEM. FREDERICK C. BLANCHARD, Dorchester, Mass. Filed July 3, 1925. Serial No. 41,349. 10 Claims. (Cl. 184—7.)



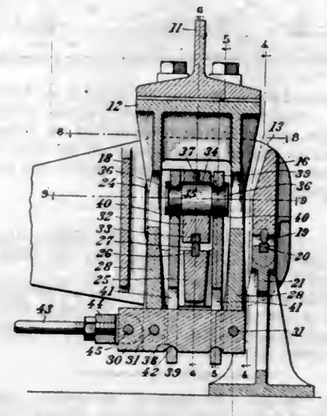
1. In a lubricating system, the combination of an engine having bearings, an oil reservoir, a pump taking oil from said reservoir, bearings extraneous to said engine, an oil pressure indicator, and valve means having two positions, one in which said engine bearings and said indicator are in communication with the pump outlet and in which said indicator indicates the pressure of the oil being supplied to said engine bearings, and the other in which said extraneous bearings and said indicator are in communication with the pump outlet and in which said indicator indicates the pressure of the oil being supplied to said extraneous bearings to the exclusion of said engine bearings.

1,685,977. WIRE CUTTER AND STRIPPER. ALBERT BOLLERMAN, New York, N. Y. Filed Aug. 18, 1927. Serial No. 213,779. 1 Claim. (Cl. 81—9.5.)



A wire cutting and stripping implement comprising a pair of handles hinged together at one end and having inturned flanges at the other, cutting and stripping devices attached in opposed relation to said flanges, a screw stud fixed in one handle to extend towards the other, a hollow post fixed in the other handle to receive said stud, a nut adjustable on said stud, to limit the closing movement of the handles, a compression spring encircling said stud to normally press said handles apart, and a stop limiting the opening between said handles.

1,685,978. TRACK SCALE. ALFRED BOUSFIELD, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed July 21, 1926. Serial No. 123,908. 6 Claims. (Cl. 265—71.)
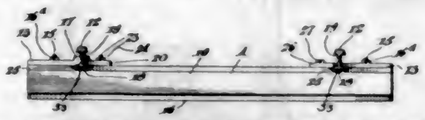


1. In a scale, the combination with a lever having a vertical opening formed therein and a pivot spanning said opening, of a substantially triangular block mounted on said pivot and having oppositely projecting bearings near the apex thereof, a girder chair having legs straddling said block, and means suspended from the bearings in the said block for supporting the said chair.

1,685,979. LOUD SPEAKER. PORTER H. BRACE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 6, 1925. Serial No. 48,438. 5 Claims. (Cl. 179—117.)



1. A telephonic receiver device comprising a relatively large circular trough shaped permanent magnet structure having magnetic poles upon opposite edges of the trough, a concentric pole piece attached to said magnet, and a movable coil positioned substantially concentric with said magnet and having a sound radiating diaphragm means attached thereto, the diameter of said radiating means being greater than five inches.

1,685,980. RAILROAD TIE. SAMUEL FREDERICK BROHMAN, Cochin, Saskatchewan, Canada. Filed May 19, 1927, Serial No. 192,735, and in Canada May 11, 1927. 2 Claims. (Cl. 238—62.)

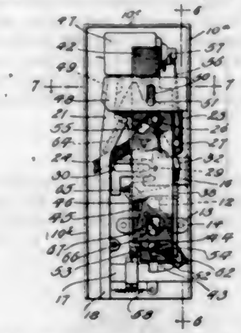


1. A railroad tie comprising a substantially hollow body portion, a cover plate for the body portion formed with a transverse groove adjacent each end to engage with rails, clamping plates on each side of the rails, and securing bolts extending through said plates, the cover and the body portion.

1,685,981. COMPOSITION OF MATTER. DANIEL C. BAUCE, Nashville, Tenn. Filed July 29, 1926. Serial No. 125,828. 2 Claims. (Cl. 106—8.)

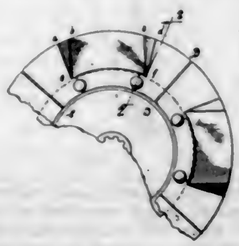
1. A filling composition consisting of an admixture of a soap jelly, a starch dextrin paste including borax, glycerine and oil of cloves, and comminuted fibrous material in the proportions specified.

1,685,982. LOCK. RALEIGH B. BUZZAIRD, Maplewood, N. J. Filed Oct. 6, 1925. Serial No. 60,914. 10 Claims. (Cl. 70—6.)



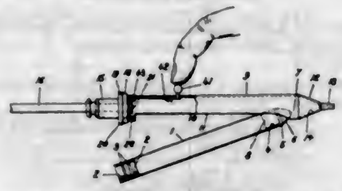
1. In a lock, the combination of a main bolt, an auxiliary bolt, key-actuated mechanism for concurrently operating the bolts in relatively opposite directions and means whereby the auxiliary bolt is automatically brought back into unlocking position when the main bolt is in final unlocking position.

1,685,983. CLUTCH PLATE. HAROLD D. CHURCH, Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 29, 1926. Serial No. 98,266. 11 Claims. (Cl. 192—107.)



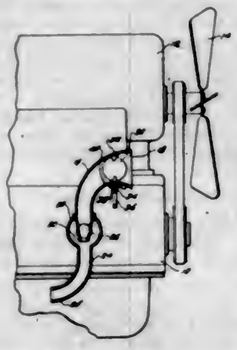
1. A clutch plate member of segmental shape having an intermediate portion in the form of a plane surface positioned at an angle to the common plane of the end portions and the inner edge.

1,685,984. SYRINGE. JULES COURNAND and RENÉ COURNAND, Paris, France. Filed Mar. 5, 1926, Serial No. 92,559, and in France Mar. 17, 1925. 8 Claims. (Cl. 128—218.)



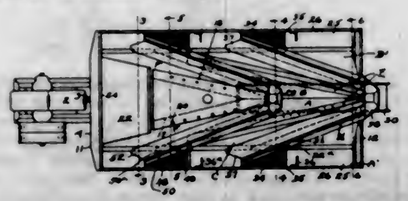
1. A syringe, comprising, in combination, an elongated recessed rigid body, with the front end of the recess of frusto-conical shape, a nozzle at the front end of the body, an elongated cylindrical capsule for containing liquid to be injected, an opening in the body permitting the capsule to be removably housed within the recess of the body, front and rear resilient stoppers hermetically closing the capsule, the front stopper being shaped to have its front part snugly fit the front end of the recess and to be perforated by an injection needle, means to engage the rear stopper and push it forward to drive liquid out of the capsule, and a spring actuated knob on the body for starting withdrawal of the capsule.

1,685,985. CRANK-CASE-VENTILATOR SHUT-OFF VALVE. CLINTON H. DEARBORN, Hampton, Va., assignor to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed Sept. 6, 1927. Serial No. 217,713. 5 Claims. (Cl. 123—171.)



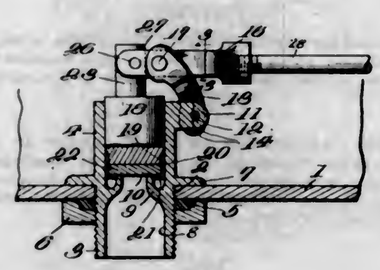
1. In combination with an internal combustion engine including a crankcase, means operated by the flow of air past said engine for drawing air from the crankcase, and means operated by an increase in the rate of flow of the air for reducing the normal increase in the amount of air drawn from said crankcase.

1,685,986. CONCENTRATING TABLE. EMIL DEISTER, Fort Wayne, Ind. Filed May 21, 1925. Serial No. 31,769. 8 Claims. (Cl. 209—441.)



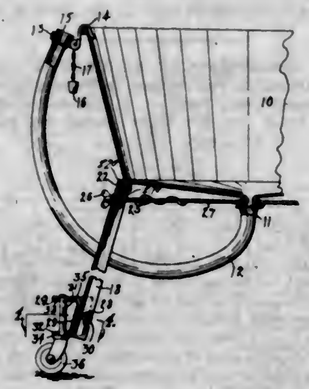
1. A concentrating table comprising a deck transversely inclined and inclined downwardly from its head end toward its foot or discharge end, means to reciprocate the deck longitudinally, a series of upwardly inclined stratifying launders on the declined surface of deck and diagonally disposed relatively to the line of reciprocation of the deck, the bottom of each launder projecting laterally from said declined surface and being substantially level transversely, means to feed dressing water to each stratifying means, and means to feed materials to be treated to the deck adjacent the head end thereof, the inclination of each stratifying means being in a direction opposed to the said inclination of the deck.

1,685,987. FLOAT VALVE. EDWARD L. DELANY, Brooklyn, N. Y., assignor to Delany Realty Corporation, Brooklyn, N. Y. Filed Jan. 17, 1925. Serial No. 3,127. 2 Claims. (Cl. 137—104.)



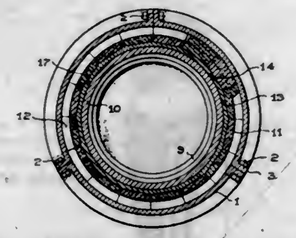
1. A float valve comprising a casing, a valve therein extending beyond the casing and having one side cut away, a float lever pivotally connected to the valve, and a compensating arm pivoted to the casing and extending upwardly over the valve and pivoted to the float lever very close to the pivotal connection between the float lever and the valve.

1,685,988. TUB STAND. FRANK J. DULTMEIER, Des Moines, Iowa, assignor to Dulco Manufacturing Company, a Corporation of Iowa. Filed Nov. 8, 1926. Serial No. 147,095. 2 Claims. (Cl. 68—31.)



1. In a tub stand, a plurality of legs, braces for holding them in spaced relation, a flexible member connected with the upper end of one leg, having a slidable connection with the upper ends of the other legs, a tub supported on and between the legs, and means for tightening the flexible member for causing the legs to grip the tub.

1,685,989. GEAR-GRINDING HOB. GEORGE M. EATON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 12, 1923. Serial No. 674,418. 6 Claims. (Cl. 51—206.)



1. An abrasive device comprising a hub, a plurality of abrasive members each having a gear tooth face, said members being angularly disposed to constitute a cylinder with the teeth constituting helices, a plurality of strands of band wire helically wound in the tooth spaces and means for securing the bands to said hub.

1,685,990. FLY SWATTER. WALTER H. A. EMANUEL, Fairchild, Wis. Filed Oct. 14, 1926. Serial No. 141,582. 2 Claims. (Cl. 306—1.)



2. In a fly swatter of the class described, a swatter head, a pair of parallel spaced relatively elongated rods extending longitudinally from the inner edge of the swatter head, a relatively elongated tube within which the free ends of the rods are adapted for disposition, a separating member carried by only one of the rods and slidable therealong for expanding the rods at a point directly adjacent the inner end of the tube when said separating member is disposed in one position, the separating member further permitting the rods to be moved outwardly of the tube when said separating member is disposed in another position remote from the inner end of the tube.

1,685,991. LEGGING. CARL ARVID ERICKSON, Detroit, Mich. Filed July 14, 1926. Serial No. 122,380. 2 Claims. (Cl. 36—2.)

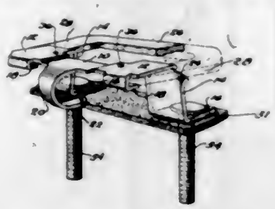
1. A garment of the class described adapted for mounting on a leg comprising a pair of leg covering members; an elastic strip connecting the rear edges of said covering members; a tongue projecting outwardly from the lower end of the forward edge of each of said covering members, said tongues being suitably secured together, the remain-

der of the forward edge of said covering members being detached from each other; an elastic strip mounted on the forward edge of each of said covering members; fastening means mounted on said elastic strips for retaining the edges of said elastic strips in close relation, all of



said elastic strips being transversely and longitudinally stretchable for effecting a molding of said covering members to conform to the shape of the leg and to retain the same in close engagement with the leg and for preventing sagging of said covering members on the leg.

1,685,992. AMMETER FRAME. JESSE E. ESHBAUGH, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed Nov. 30, 1927. Serial No. 236,761. 8 Claims. (Cl. 171—95.)

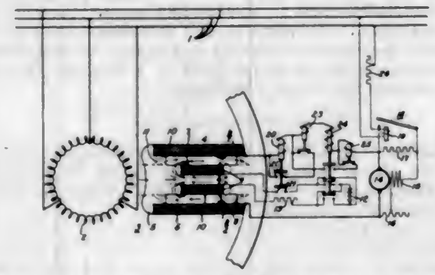


8. In an ammeter, a metallic conductor frame comprising a central portion and side wings each having a portion bent at an angle therewith, the metal of said wings being cut on each outer side and bent back to form a slot, a horseshoe magnet having converging arms, each arm fitting within a slot, and means for holding said magnet against displacement comprising a bent over portion of said frame.

1,685,993. STABILIZATION OF TRANSMISSION LINES. CARL J. FECHHEIMER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 23, 1923. Serial No. 614,371. 12 Claims. (Cl. 172—237.)

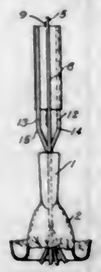
2. The combination with an alternating-current transmission line, of a synchronous dynamo-electric machine connected thereto and a voltage-responsive mechanism for limiting the voltage thereof, said mechanism comprising means for variably exciting said machine from a maximum value to a predetermined minimum value and means operable upon the occurrence of said predetermined minimum value for varying the reluctance of the magnetic circuits of said machine.

11. The combination with a synchronous dynamo-electric machine and a long transmission line connected to said machine, of an exciter for said machine, voltage-responsive means for regulating the exciter current, and electro-responsive means for automatically changing the ratio between the combined exciting ampere-turns of field and ar-



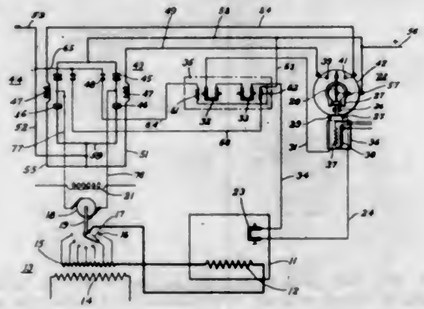
mature and the terminal voltage of the machine in response to conditions which would otherwise have necessitated a reduction of the exciter current below a predetermined value.

1,685,994. RADIO VACUUM TUBE. HUBERT M. FREEMAN, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 8, 1924. Serial No. 684,981. 3 Claims. (Cl. 250—27.5.)



1. In a vacuum tube device, a press, a cylindrical plate, two standards mounted in said press and secured to said plate along elements of the cylinder, the plane of said elements being at an oblique angle to the plane of said press.

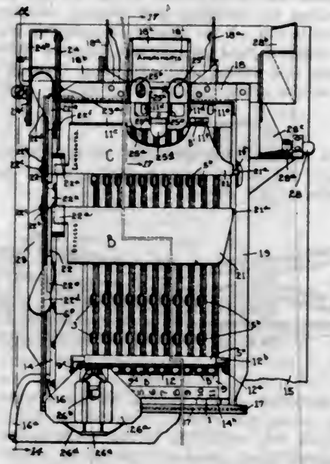
1,685,995. TEMPERATURE REGULATOR. HARLAN S. GANO, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 23, 1925. Serial No. 64,363. 10 Claims. (Cl. 236—68.)



1. A temperature control system comprising a contact-making member, an actuating coil therefor, a main thermo-couple, subjected to the temperature to be controlled, for

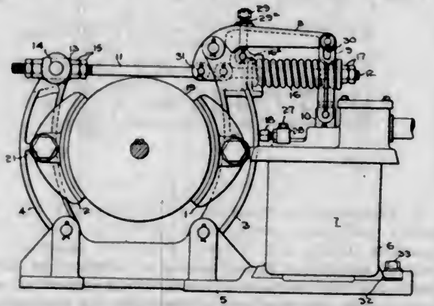
energizing said actuating coil, and an auxiliary thermo-couple, energized in accordance with the position of said contact-making member, for preventing hunting of said system.

1,685,996. BALLOT MARKER AND SETTER. EUGENE GREGORY, Ann Arbor, Mich., assignor of one-tenth to Edward H. Saier, Lansing, Mich. Filed Jan. 25, 1923. Serial No. 614,787. 35 Claims. (Cl. 235—53.)



1. In voting means of the character described, a ballot-marker provided with a plurality of grooves, members adjustable in said grooves, and means whereby the members may be locked in adjusted positions in the grooves, substantially as described.

1,685,997. ELECTROMAGNETIC BRAKE. GUSTAF A. HALFVERSON, Verona, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 24, 1925. Serial No. 45,741. 3 Claims. (Cl. 188—171.)



3. In an electromagnetic brake, the combination with a pair of brake shoes and a brake wheel, of a pair of arms for supporting said shoes, an operating lever mounted on one of said arms, a spring for biasing said lever, an electromagnet for opposing said bias, and a bolt mounted on said arm for locking said lever to said arm and to further bias said spring independently of said magnet.

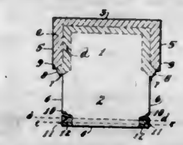
1,685,998. DOUBLE-ACTING DOOR LATCH. CARL JOHN HAGSTROM, Glen Cove, N. Y. Filed May 20, 1927. Serial No. 192,823. 5 Claims. (Cl. 292—18.)

1. In a device of the class set forth, the combination with two members adapted to be moved as to open position, of catch mechanism co-operating with said members, permitting either of the members to be moved, said catch mechanism having means actuated by the member moved to render it positively impossible for the second member to be moved after the first has been moved, said means in-



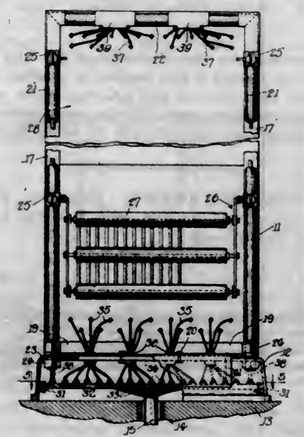
cluding a catch on the first mentioned member to keep the same closed, an actuator operated by said catch on moving said member, and means actuated by said actutor to lock the second member.

1,685,999. ROOFING SHINGLE. WILLIAM A. HARRIS, Boston, Mass., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 27, 1925. Serial No. 11,968. 8 Claims. (Cl. 108—7.)



1. A flexible roofing shingle having parallel ends and parallel sides, the upper portion which is substantially one half the length of the shingle being wider than the lower portion, and defined therefrom by a pair of shoulders on each side parallel to the ends, one shoulder extending inwardly from the side edge of the upper portion to a short intermediate edge and the other shoulder extending inwardly from the intermediate edge to the side edge of the lower portion, and the lower portion having notches cut near its extremity to form tabs laterally extending a distance equal to the perpendicular distance between the side edges of the upper and lower portions.

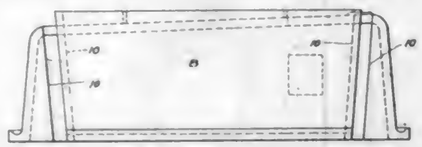
1,686,000. CONTROL BOARD FOR ELEVATORS. FRANK A. HECHT, Jr., Chicago, Ill., assignor to Kaestner & Hecht Company, Chicago, Ill., a Corporation of Illinois. Filed May 26, 1924. Serial No. 716,078. 8 Claims. (Cl. 175—298.)



1. A control panel board comprising, in combination, a closed base open on its lower side and having a removable cover, a supporting frame mounted on said closed base

and comprising a pair of hollow tubular standards, a vertical panel secured to the front of said frame for supporting a plurality of electrical devices, a terminal board mounted within said base and supporting a plurality of terminal binding posts, an incoming electrical conduit extending into said base from below and having its wires connected to said binding posts, a plurality of lead wires attached to certain of said binding posts and extending directly out of said base to the lower portion of said panel, and a plurality of lead wires attached to others of said binding posts and passing through said hollow standards to the top of said frame from where they are distributed to the electrical devices on the upper portion of said panel.

1,686,001. PATTERN FOR BATHTUBS. HENRY E. HENRICKS, Beaver, Pa., assignor to The United States Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1925. Serial No. 59,530. 18 Claims. (Cl. 22—158.)



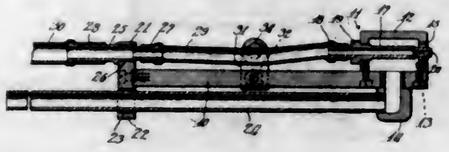
1. A pattern for a bath tub having a shield portion which is an extension of a tub wall, including a tub body portion and a shield portion, co-planar with a wall of the body portion, the shield portion being relatively movable with respect to the body portion to a position substantially outside the mold portion formed by the pattern.

1,686,002. EYEGLASS HOLDER. JACOB S. HERZON, Detroit, Mich. Filed June 11, 1925. Serial No. 36,308. 3 Claims. (Cl. 206—5.)



1. A receptacle for eye glasses and the like including a forward wall having a slot therein in position to permit access to the nose piece of eye glasses therein, and securing means pivotally secured to the receptacle in alignment with said slot, and adapted to swing therethrough.

1,686,003. SPRAYING DEVICE. ARNOLD H. HOTTINGER, Chicago, Ill. Filed Apr. 3, 1925. Serial No. 20,322. 3 Claims. (Cl. 91—45.)



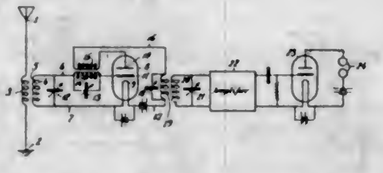
1. A spraying device having, in combination, a flat base plate, a closed hollow casing mounted on one end of said plate, a plurality of paint nozzles extending through said casing, each nozzle being threaded into the rear wall of said casing and having a restricted passage extending through the front wall of said casing, said casing being formed in its front wall with means for discharging pressure fluid about said nozzles, a bracket secured to the other end of said plate and extending on opposite sides thereof, a plurality of paint conduits rigidly mounted on said bracket at one side of said plate, a plurality of flexible conduits connecting said first mentioned conduits to said nozzles, and lying closely along said one side of said plate, means for pressing said flexible conduits against said plate to cut off the supply of paint to said nozzles, and a pressure fluid supply line opening through said plate into said casing and extending through said end bracket at the other side of said plate.

1,686,004. SPRAYING DEVICE. ARNOLD H. HOTTINGER, Chicago, Ill. Filed Apr. 3, 1925. Serial No. 20,323. 12 Claims. (Cl. 91—45.)



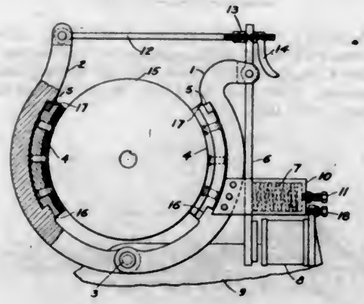
1. A spraying device having, in combination, a base plate, a casing mounted on one end of said base plate, a truncated cone extending through said casing and having a plurality of passages converging closely together at the front end, said casing having a plurality of ports formed in its front wall about the front end of said cone, means for supplying the material to be sprayed to said passages, and means for supplying pressure fluid to said casing.

1,686,005. WAVE SIGNALING SYSTEM. HARRY W. HOUCK, East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 3, 1923. Serial No. 622,521. 4 Claims. (Cl. 250—20.)



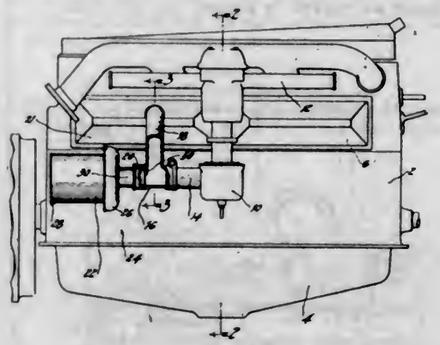
1. Apparatus for receiving and amplifying a high frequency oscillatory energy and producing energy corresponding thereto and of lower frequency, comprising an electron discharge device having a cathode, an anode and a control electrode, a tuned circuit associated with said control electrode and determining the fundamental frequency of said electron discharge device as an oscillator, a second circuit also associated with said control electrode and tuned to the frequency of said high frequency oscillatory energy, a tuned circuit associated with the anode of said electron discharge device, the apparatus having such a degree of feed-back that harmonics of said fundamental frequency will be present in the energy impressed upon said control electrode, one of said harmonics differing from said high frequency oscillatory energy by the frequency to which said tuned circuit associated with the anode is resonant, whereby the rectifying action by which the said harmonic and the high frequency oscillatory energy are caused to produce energy of a low frequency is performed by the same discharge device which produces the harmonic.

1,686,006. ELECTROMAGNETIC BRAKE. CHARLES JARLOW, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 10, 1922. Serial No. 599,997. 5 Claims. (Cl. 188—171.)



4. An electromagnetic brake comprising a pair of independently movable brake arms, a stationary magnet-coil, an armature member pivotally mounted on one of the brake arms for actuating said arms and a spring carried on one of said brake arms for biasing the armature member to oppose the action of said magnet coil.

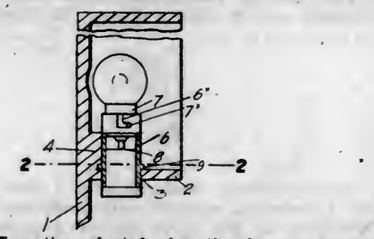
1,686,007. CRANK-CASE-VENTILATING SYSTEM. ROBERT K. JACK, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 23, 1926. Serial No. 131,064. 3 Claims. (Cl. 123—119.)



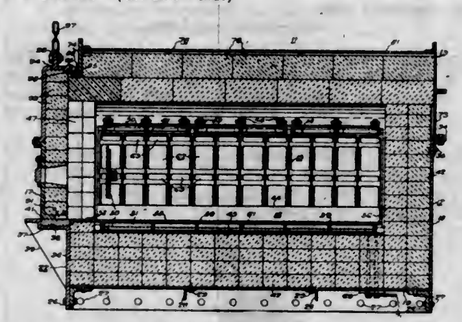
1. The combination of an engine provided with a crankcase and a carburetor, a conduit for supplying air to the carburetor, an air inlet for the crankcase, a conduit connecting the crankcase with said first named conduit for supplying crankcase vapors to the carburetor, and a baffle at the junction of said conduits for restricting the flow of air through the first named conduit to increase the aspirating effect on said second named conduit.

1,686,008. LOCKING DEVICE FOR BULB SUPPORTS OF DIRECTION INDICATORS. ALLAN ROLAND PYE JOHNSON, Toronto, Ontario, Canada. Filed Mar. 19, 1928. Serial No. 262,787. 1 Claim. (Cl. 177—329.)

The combination with two wall portions set at right angles one to the other, one of said portions having an orifice therein, a recess formed in the other wall portion adjacent the orifice, a sleeve forming a support for an incandescent bulb and coacting contacts and fitting the aforesaid orifice and provided with an annular flange having a cut off portion adapted when the sleeve is turned to permit the flange thereof clearing the recess to permit of the withdrawal of the sleeve.

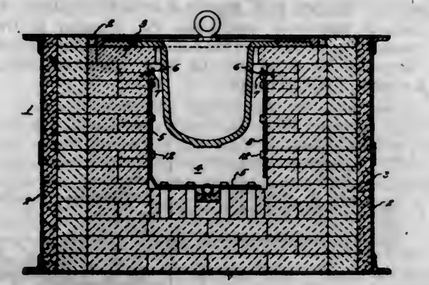


1,686,009. ELECTRIC FURNACE. ALVIN D. KEENE, West Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 24, 1926. Serial No. 137,481. 4 Claims. (Cl. 266—1.5.)



1. A supporting and protective means for electric resistor heating units comprising a plurality of upwardly extending cast metallic frames having a plurality of openings therein and a cast metallic frame supported by said upwardly extending frames and interfitting therewith.

1,686,010. ELECTRIC FURNACE. ALVIN D. KEENE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 14, 1927. Serial No. 161,064. 5 Claims. (Cl. 266—1.5.)



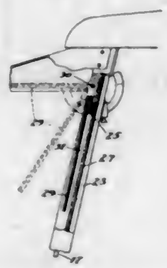
1. In an electric furnace, a furnace wall, a resistor support carried by said wall and comprising a block forming a part of the lining of said wall, said block having portions projecting from the face of said wall, and elongated metallic members fitting in said block and extending out over said projecting portions.

1,686,011. ELECTRICAL COUPLING. WILLIAM OSCAR KENNINGTON, London, England, assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Apr. 14, 1925, Serial No. 23,137, and in Great Britain Jan. 12, 1925. 1 Claim. (Cl. 173—269.)



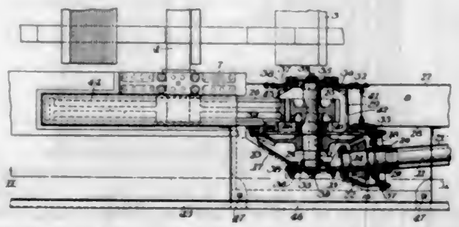
In combination, a conductor wire, a spark plug including a projecting electrode, and a connector electrically connecting the wire to the electrode and consisting of a wire having a loop therein adapted to be loosely slipped over the end of the conductor wire and engaging tightly about the same when in connecting position, the end portions of the wire having loops bent therefrom, one being a double loop and the other having a loop portion received between the convolutions of the double loop, tending to spread apart therefrom to thereby clamp the electrode when in connecting position thereon, the axes of said loops when in connecting position substantially coinciding and substantially intersecting that of the end portion of the conductor wire.

1,686,012. WINDSHIELD HEATER. WILLIAM O. KENNINGTON, London, England, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 14, 1925. Serial No. 69,207. 6 Claims. (Cl. 20—40.5.)



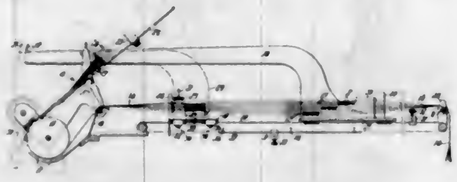
1. A windshield including in combination, a pair of spaced transparencies, the space therebetween having an opening to atmosphere along its lower side, and means to introduce heat into the space at the top thereof.

1,686,013. DRIVE FOR PADDLE-WHEEL BOATS. BERNARD H. KERSTING, Ben Avon, Pa., assignor to Dravo Contracting Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1926. Serial No. 148,222. 9 Claims. (Cl. 115—40.)



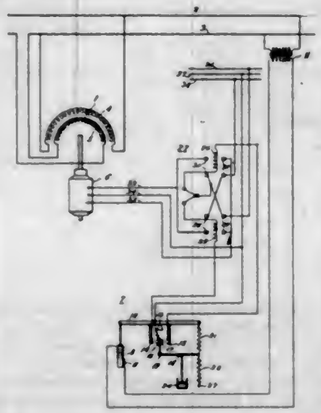
1. A drive for paddle wheel boats, comprising a boxlike boat girder, a drive shaft extending longitudinally of the boat, a paddle wheel shaft extending crosswise of the boat, an intermediate shaft extending crosswise of the boat, gearing connecting the intermediate shaft with the paddle wheel shaft, gearing connecting the intermediate shaft with the drive shaft, and a common bearing member secured to the girder and having bearings for the drive shaft and the intermediate shaft.

1,686,014. TYPEWRITING MACHINE. HIRAM S. LASHER, New York, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 24, 1925. Serial No. 64,529. 32 Claims. (Cl. 197—126.)



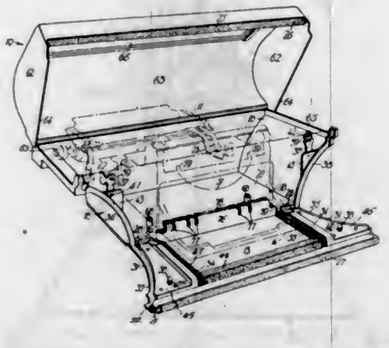
1. The combination with a fan-fold typewriting machine having a platen, a web-course at the rear of said platen, and a carbon-carrier, arranged to reciprocate upon said course, for controlling the position of carbons interleaved with the plies of a fan-folded web, of fold-slitters mounted on the machine at the intake side thereof and operable independently of the movement of the carbon-carrier and effective to slit the stationary web.

1,686,015. PRIMARY RELAY FOR INDUCTION REGULATORS. EDWIN LENR, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1924. Serial No. 736,426. 4 Claims. (Cl. 171—229.)



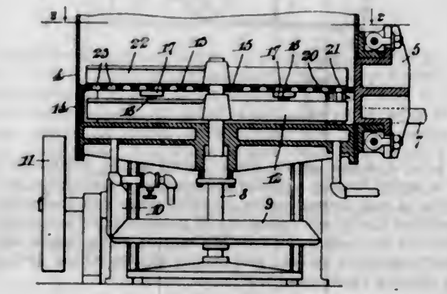
1. In a regulator, an electromagnet energized in accordance with the quantity to be regulated, a pair of contact members actuated by said electromagnet, a second pair of contact members co-operating with the first-named contact members, and resilient means for actuating said second pair of contact members, means for varying the bais of said resilient means in accordance with a change in the position of said first pair of contact members.

1,686,016. TYPEWRITING MACHINE. JOSEPH LINDBURG, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 30, 1925. Serial No. 26,903. 12 Claims. (Cl. 197—186.)



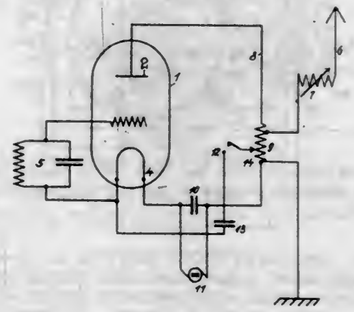
1. A sound-deadening casing for a typewriting machine, including a floor-section and rear and side walls and a hinged cover therefor, said casing also including a member hinged to said casing so as to occupy either of two positions, in one of which it is cumbent and lies substantially level with said floor-section, whereby said machine may be lowered in upright position into the casing without obstruction, said member having the form of an open frame loosely surrounding the projecting keyboard-extension of the typewriter when in cumbent position, said member being also swingable upwardly and rearwardly to upright position independently of the keyboard-extension, and forming a front wall for the casing, and means to hold it releasably in its upright position.

1,686,017. RENDERING APPARATUS. MICHAEL V. LOVETT, Castanea, Pa. Filed July 28, 1924. Serial No. 728,777. 3 Claims. (Cl. 87—13.)



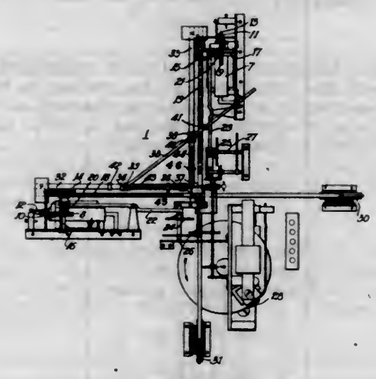
1. In a rendering apparatus, the combination with a tank having a discharge opening; of a sub-bottom within said tank disposed in a horizontal plane extending substantially midway through said opening, and agitators in said tank one above and one below said sub-bottom and both disposed relatively close to said sub-bottom.

1,686,018. VACUUM-TUBE CIRCUITS. SIEGMUND LOEWE, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 29, 1921, Serial No. 496,404, and in Germany Nov. 13, 1917. 9 Claims. (Cl. 250—36.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat, L., 1313.)



1. A circuit comprising an electron discharge device including an anode and a cathode, an anode circuit, a cathode circuit, and means for inductively transferring sufficient energy from said anode circuit to said cathode circuit to maintain said cathode heated.

1,686,019. ELECTRICAL MEASURING INSTRUMENT. HENRY H. LYON, Buffalo, N. Y.; Henry L. Lyon administrator of said Henry H. Lyon, deceased. Filed Dec. 10, 1919. Serial No. 343,836. 13 Claims. (Cl. 171—34.)

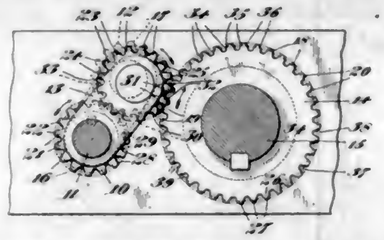


11. In a measuring instrument, the combination with two driven members disposed at right angles to each other and means for connecting the same, of means for periodically resetting the driven members and means associated with the connecting means for indicating the maximum distance between the driven members attained in any period.

1,686,020. GEARING MECHANISM. JAMES P. MADDEN, Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed Mar. 6, 1926. Serial No. 92,727. 3 Claims. (Cl. 74—41.)

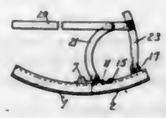
1. In uni-directional, power-transmitting gearing, the combination of a driven gear having teeth with a symmetrical dedendum and non-symmetrical addendum portions and a gear having symmetrical teeth movable later-

ally of the driven gear to meshed and demeshed positions with respect to the latter, said gears having teeth adapted to intermesh and the idle faces of the teeth of the driven



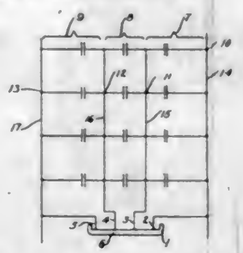
gear being relieved from the pitch circle to the tips in order to facilitate meshing of the laterally movable gear therewith.

1,686,021. SPLIT-RIM TOOL. FRANK LE ROI MAIN, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 24, 1925. Serial No. 64,605. 3 Claims. (Cl. 157—1.)



1. A split rim tool comprising a handle, a link intermediately pivoted adjacent an end of said handle, a second link intermediately pivoted to said handle at a point somewhat removed from said pivot, means on one arm of each link by which it may be connected to a rim adjacent the split, the other ends of the links lying in the same plane and slidably engaging each other upon the operation of the handle.

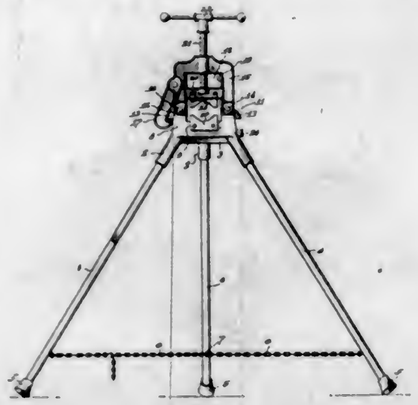
1,686,022. RESISTOR FOR SHUNTED CONDENSERS. RALPH E. MARBURY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 1, 1923. Serial No. 665,834. 5 Claims. (Cl. 250—16.)



1. The combination with a plurality of condensers connected in series, of a shunting resistor comprising a single container having therein a liquid in which are immersed terminal and intermediate electrodes connected to terminal and intermediate points of said condensers.

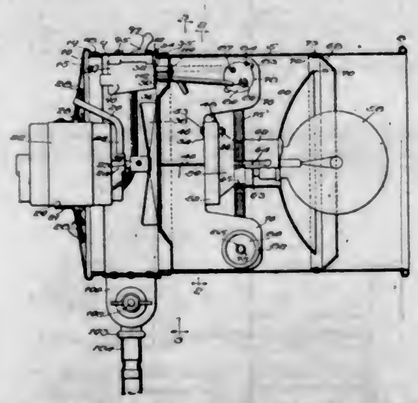
1,686,023. PIPE VISE AND STAND. LEO MCCLOSKEY, Essex, Ontario, Canada. Filed Mar. 19, 1924. Serial No. 700,406, and in Canada Nov. 22, 1923. 1 Claim. (Cl. 81—41.)

A vise and stand comprising a table having a front edge thereof provided with integral end diverging leg sockets and its rear edge with a leg socket of greater angularity than the first mentioned leg sockets, legs in all of said sockets, an integral base on the front edge of said table, integral apertured ears on said base above the sockets at the front edge of said table and affording laterally projecting keepers, gripping members fastened to said base intermediate the ends thereof, a reversible vise member pivotally connected to one of said apertured ears, and



engageable with the other ear, a hook carried by said vise member and engageable with the keeper opposite the pivotal connection of said vise member, and an adjustable gripping member in said vise member opposing said gripping members.

1,686,024. HAIR DRIER. WILLIAM MEYER, Chicago, Ill. Filed Aug. 6, 1927. Serial No. 211,121. 19 Claims. (Cl. 34—26.)

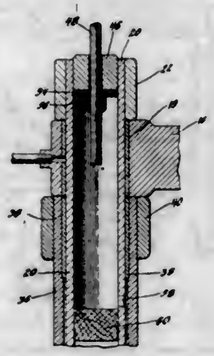


1. In a device of the class described, the combination of a casing having a discharge opening, a transverse partition in said casing, means mounted upon said transverse partition for directing the air in substantially a straight line and for preventing swirling thereof and a heater element supported by said last means, said partition having an opening therethrough.

1,686,025. LUBRICATION OF BRAKE SHAFTS. HARRY MORGAN, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 19, 1927. Serial No. 227,158. 2 Claims. (Cl. 308—92.)

1. In a brake shaft assembly for support on a vehicle chassis, a hollow inner brake actuating shaft, a hollow outer brake actuating shaft journaled on said inner shaft,

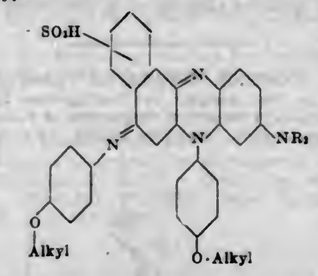
a bearing support for said shafts on the chassis permitting independent rocking movement of said shafts, said inner shaft being closed at one end, and a fixed lubricating tube extending in the other end of said inner shaft by a con-



nection permitting rotation of the shaft relative to the tube but preventing the escape of lubricant, said inner shaft being provided with an aperture opening into said outer shaft.

1,686,026. NAPHTHOPHENAZINE DYESTUFFS. WILHELM NEELMEIER, Leverkusen, near Cologne-on-the-Rhine, and THEODOR NOCKEN, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 9, 1926, Serial No. 114,803, and in Germany June 12, 1925. 3 Claims. (Cl. 260—26.)

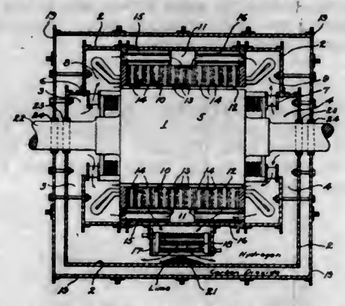
1. As new products naphthophenazine dyestuffs of the general type



in which R stands for hydrogen, an alkyl or an aryl radicle, and in which the naphthophenazine nucleus may contain additional sulfo groups, which are dark powders with metallic lustre, soluble in water with from violet to blue colors, soluble in concentrated sulfuric acid with a green color, dyeing wool from violet to blue shades, particularly fast to light and which are substantially identical with the products obtainable by submitting 1-3-di(para-alkoxy-arylamino) naphthalene compounds and para-diamino-aryl compounds to reactions leading to the formation of the naphthophenazine nucleus.

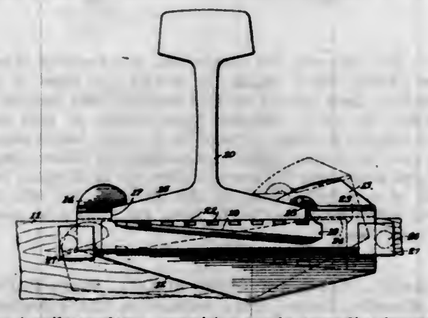
1,686,027. INERT-GAS PROTECTIVE CHAMBER FOR HYDROGEN-COOLED MACHINES. FRANK DAVIES NEWBURY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 23, 1925. Serial No. 45,488. 3 Claims. (Cl. 171—252.)

2. A dynamo-electric machine having a gas-tight, hydrogen-filled casing entirely surrounding the same, a rotatable shaft extending through said casing, a seal for preventing the passage of a gas between said rotatable shaft and said casing, an external chamber surrounding said shaft on the outer side of said seal, and a filling of inert gas in said



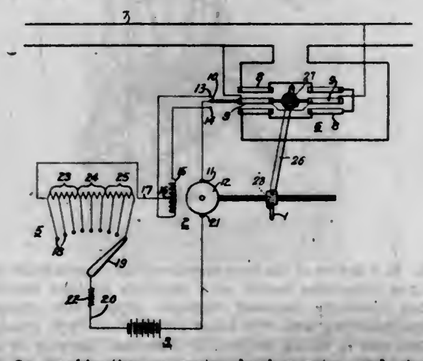
external chamber at a pressure higher than atmospheric for maintaining said external chamber substantially free of oxygen.

1,686,028. RAIL CLAMP. ALPHONSO T. PALMER, Chicago, Ill. Filed May 24, 1926. Serial No. 111,141. 16 Claims. (Cl. 238—324.)



1. A railway clamp comprising a yoke extending beneath the bottom flange of the rail from one side to the other thereof, inwardly extending hooks disposed at opposite ends of said yoke for engaging the top face of the rail flange, and a wedge for forcing said yoke downwardly to tighten said hooks upon the upper face of the rail flange said wedge having transversely extending grooves and ridges substantially throughout its length to hold said wedge from longitudinal and lateral displacement.

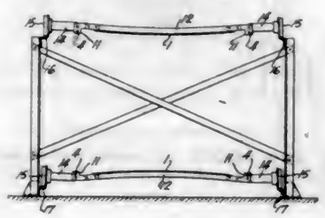
1,686,029. MOTOR CONTROL. RAYMOND T. PIERCE, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 23, 1922. Serial No. 538,811. 2 Claims. (Cl. 172—179.)



1. In combination, a motor having rotor and stator windings one of which is divided in substantially similar

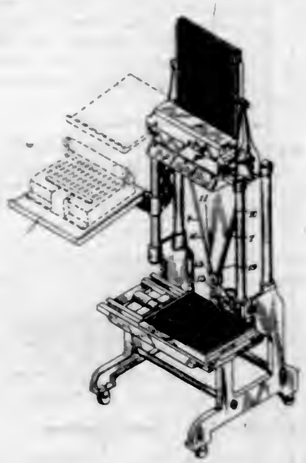
sections for causing a predetermined forward or backward direction of rotation of the rotor winding, a variable resistor for governing the speed of the motor, and means for connecting the resistor in the same circuit relation with either one of the said sections.

1,686,030. ROPE CONVEYER. ROBERT BRINDLEY PITT, Bath, England, assignor to Stothert & Pitt, Limited, Newark Works, Bath, England. Filed July 11, 1927, Serial No. 204,925, and in Great Britain Oct. 6, 1926. 2 Claims. (Cl. 198—130.)



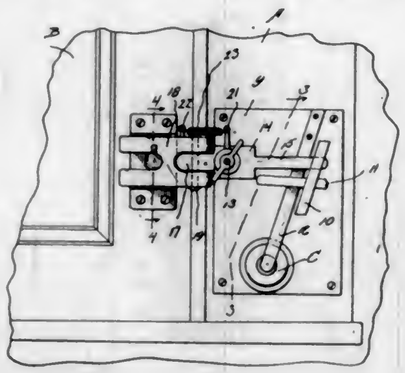
1. In a conveyer, the combination of a plurality of endless parallel ropes, means for driving the ropes, a belt conveyer, jaws carried by said conveyer and adapted to receive the ropes, clamping arms carried by said jaws and adapted to clamp the ropes in the jaws, rollers carried by said arms, cam guides engaged by said rollers and so shaped as to cause the arms to move out of clamping position at a suitable point on the travel of the belt, and cam guides so shaped as to move the arms into clamping position.

1,686,031. TYPE-COMPOSING BOARD. FRANK H. POEPPELMEIER, Dayton, Ohio, assignor to The Typographic Machines Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 13, 1926. Serial No. 154,397. 6 Claims. (Cl. 276—20.)



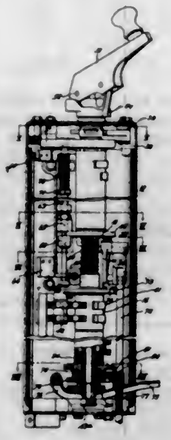
1. In a device of the type described, the combination with a type composing board, of a plurality of type receiving tubes vertically disposed thereon, oblique side channels communicating with the lower ends of the type receiving tubes, and to which the type is delivered edgewise by said tubes, and a common discharge means into which the type is delivered by the side channels.

1,686,032. COMBINED SASH LOCK AND SIGNAL-SWITCH ACTUATOR. THADEUS KANDON and HAROLD PHOENIX, Wilkes-Barre, Pa. Filed June 24, 1927. Serial No. 201,159. 3 Claims. (Cl. 200—55.)



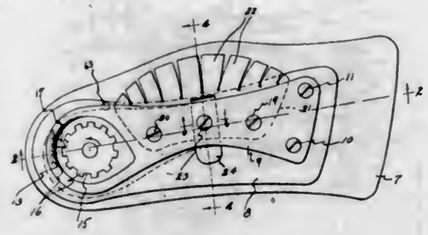
1. In a device of the character described, a bracket constructed for attachment to a sash frame, a plate member constructed for attachment to the window frame adjacent said bracket, a push button switch associated with said plate, an elongated finger of spring material connected at one end to said plate and overlying the button of the push button switch at its lower end, said finger being normally swung outwardly at its lower end, a block pivotally secured to said plate, a tongue upon one end of the block for engagement over said spring finger whereupon when the block is swung downwardly said tongue will cause the inward movement of the finger to close the push button switch and a connection between the block and the sash attached bracket, to cause the swinging of the block when the sash is raised.

1,686,033. CONTROL APPARATUS. LYNN G. RILEY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 11, 1925. Serial No. 29,285. 18 Claims. (Cl. 200—5.)



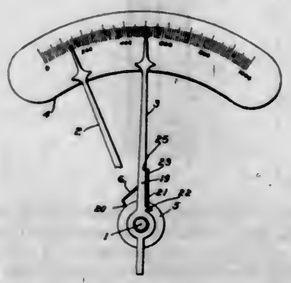
18. In a controller, in combination, a casing, a reversing drum and an emergency drum rotatably mounted in the casing, a key adapted to engage the reversing drum to provide for its manual operation, means for actuating the emergency drum, means for locking the emergency drum against operation, means for ejecting said key from the casing when the reversing drum is in its "neutral" position, said ejecting means being adapted to cooperate with said locking means to retain the emergency drum in its "forward" position.

1,686,034. ARCH SUPPORT. MATHIAS F. ROSER, Detroit, Mich. Filed Apr. 15, 1925. Serial No. 23,230. 2 Claims. (Cl. 36—71.)



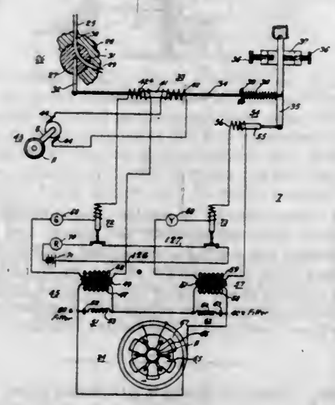
1. An arch support of the class described, comprising: a flexible foot engaging plate; a reinforcing plate on said foot engaging plate; an adjusting plate mounted on said reinforcing plate, said adjusting plate being fixed relatively to said reinforcing plate, at one of its ends, the opposite end of said adjusting plate having an opening provided therein; a bolt projected eccentrically through said opening; a disc mounted concentrically on said bolt; a circular boss on the inner surface of said disc, eccentrically of said bolt, adapted to engage in said opening, said adjusting plate being adapted to flex said reinforcing plate and foot engaging plate in two directions upon the rotation of said disc in one direction.

1,686,035. MAXIMUM-DEMAND DEVICE. ALBERT ROTH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 15, 1925. Serial No. 23,414. 13 Claims. (Cl. 116—129.)



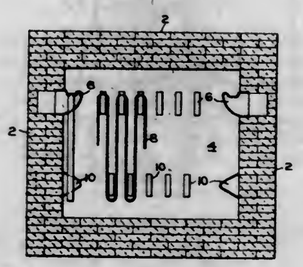
8. In a demand-indicating device, the combination with a periodically-reset operating shaft, a driving pointer secured thereto and a driven pointer relatively-movably mounted thereon, of a yieldable disk relatively-movably mounted on the shaft, a pawl member pivotally mounted on the driven pointer and having a relatively sharp point, said pawl being normally so biased that the point thereof indents the surface of said disk, a ratchet secured to said disk, a second pawl co-operating with said ratchet and constituting means for returning the driven pointer to an initial positon, and means for frctionally holding said dsk against movement, said driving pointer operating to releae said first pawl from said disk and to drive the driven pointer.

1,686,036. AUTOMATIC TRAIN CONTROL AND CAB SIGNALING. HARRY M. RYDER, Sharpsburg, Md., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1925. Serial No. 6,551. 8 Claims. (Cl. 246—63.)



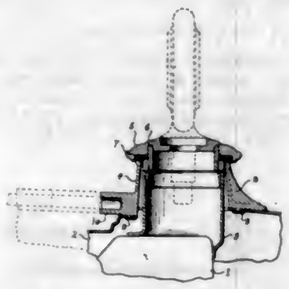
7. The combination with a track having a plurality of rails, of means for electricnily insulating groups of said rails to form sections and subsections of track, a plurality of sources of electrical energy of different frequencies, and means for selectively connecting said groups of rails to said sources of electrical energy in accordance with traffic conditions.

1,686,037. RESISTOR SUPPORT. JOHANN SCHNEPF, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 24, 1927, Serial No. 201,289, and in Germany July 17, 1926. 5 Claims. (Cl. 206—1.5.)



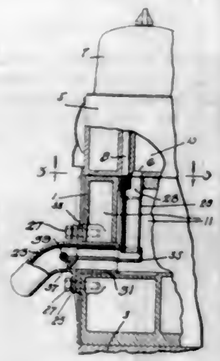
1. In an electric furnace, a resistance heating element, refractory means of normally acid characteristic directly supporting said resistance element within said furnace, and means for shielding said resistance element from the deleterious effects occasioned by said acid refractory supports.

1,686,038. RADIATOR CAP. ERNEST W. SEAHOLM, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 15, 1926. Serial No. 148,540. 5 Claims. (Cl. 220—24.)



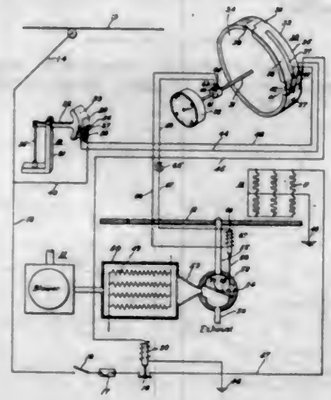
1. In a filler opening, in combination, a filling spout, an ornamental shell surrounding the spout, and an ornametal closure cap having a dependent portion detachably engageable with the interior of the spout and provided with an annular groove into which the upper portion of the shell extends, whereby the ornamental contours of the cap and shell are combined in cooperative relation.

1,686,039. COOLING-WATER DISTRIBUTION. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 1, 1926. Serial No. 91,507. 6 Claims. (Cl. 123—173.)



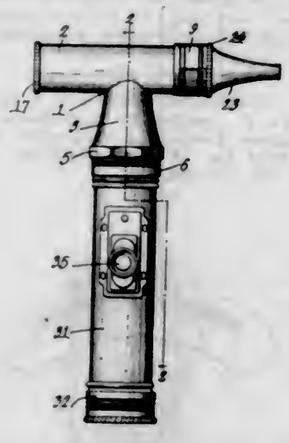
1. In a motor comprising one or more cylinders and a head, a cooling system therefor including a pump, a water jacket about the cylinders, means within the cylinder block whereby the flow of fluid may be directed through the water jacket to the head or may be impelled directly to the head, by-passing the water jacket.

1,686,040. CONTROL SYSTEM. KARL A. SIMMON, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1926. Serial No. 127,870. 14 Claims. (Cl. 219—20.4.)



2. In a car-heating system, in combination, a heater, a circuit for supplying energy to the heater, a thermostat for making and breaking the circuit upon changes in temperature, and means for breaking the circuit and maintaining it open during predetermined periods, said means being independent of the thermostat.

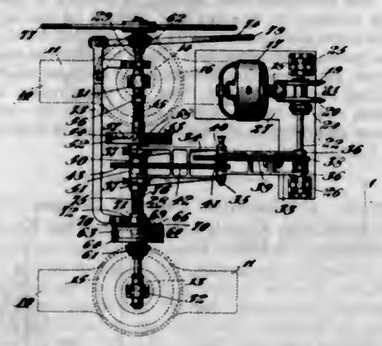
1,686,041. OTOSCOPE. JOHN G. SMITH, Wahoo, Nebr. Filed Apr. 16, 1927. Serial No. 184,401. 1 Claim. (Cl. 128—9.)



An otoscope embodying a T-shaped head made up of a tubular arm and a main tubular member arranged at right angles to each other, an eye piece on one end of the main member, mechanism on the opposite end of the main member for cooperating with the part which is to be inspected, a hollow handle, means for connecting the hand detachably to the arm, an inclined reflector located in the main member between the eye piece and said mechanism and so positioned as to receive light from the arm, the reflector being supplied with a peep hole, a lamp in the handle and illuminating the reflector, a battery housed in the handle and constituting means for operating the lamp,

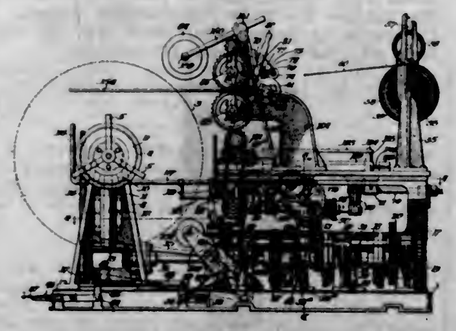
and a switch controlling the lighting of the lamp, the switch being movably mounted on the handle at a point spaced from both ends of the handle, the switch being located in a position approximately at right angles to a plane passing through the axes of the handle, the head and the arm, whereby the switch may be worked conveniently by the thumb of an operator whilst the operator is looking through the eye piece, the peep hole, and said mechanism.

1,686,042. ROLLING-MILL SCREW-DOWN MECHANISM. LAWRENCE C. STEELE, Baltimore, Md. Filed Feb. 9, 1925. Serial No. 7,885. 12 Claims. (Cl. 80—56.)



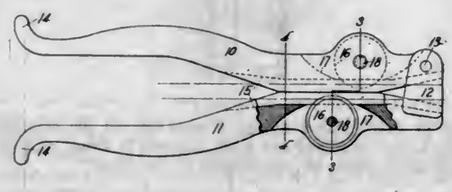
1. The combination, with a mill having screws for limiting upward movement of an upper roll, gears connected to the screws, bearings movable with the screws, a cross shaft carried by the bearings, driving gears on the cross shaft and meshing with the first gears, one of the driving gears being secured to the cross shaft and the other being loose thereon, a vernier clutch between the shaft and the loose driving gear, a continuously operating motor, a transmission mechanism between the motor and the shaft including reversible and disconnectible gearing, means for engaging and disengaging the clutch, and means for rendering the reversible gearing effective for driving the shaft in either direction or ineffective, both of said controlling means including manual elements available for operation from a common position.

1,686,043. TIRE-MAKING MACHINE. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 22, 1921. Serial No. 517,010. 24 Claims. (Cl. 154—10.)



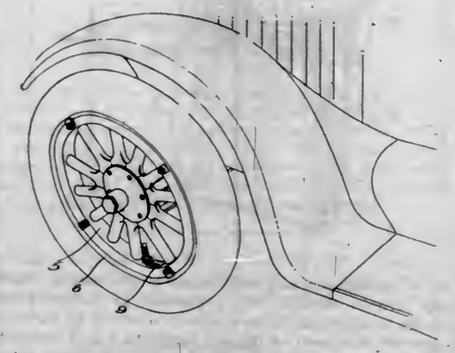
1. In a machine for making tires, a core, means for rotating the core, a tension roller, gearing connecting the tension roller with the core so as to rotate it at a surface speed less than the surface speed of the core, means within the gearing to change the relative speed of rotation of the core and the roller and means to expand and contract the core.

1,686,044. CABLE-SLITTING DEVICE. GROVER T. STOTT, Springfield, Ohio, assignor of one-half to Roscoe O. Snider, Springfield, Ohio. Filed Apr. 14, 1927. Serial No. 183,823. 4 Claims. (Cl. 81—9.5.)



1. In a cable slitting device, two members pivotally connected one to the other on an axis transverse to their length and having opposed portions provided with longitudinal grooves to form a guideway for a cable, cutters carried by the respective members and extending into said grooves, said members having parts forming handles by means of which one of said cutters may be moved toward and from the other.

1,686,045. THEFT-PREVENTING DEVICE. DAVID R. TABER, Washington, D. C., assignor or one-third to George A. Meyers, Washington, D. C. Filed Jan. 13, 1927. Serial No. 160,921. 5 Claims. (Cl. 70—90.)

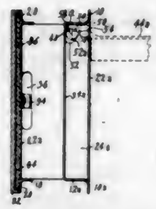


1. A felly and rim lock comprising a lock casing carried by the felly, fastening elements for holding said casing in place and extending from the rim-engaged surface of said felly to engage said casing whereby said fastening elements will be concealed when the rim is in place on the felly, and said rim having a portion with which the bolt of said lock engages to prevent the rim from being taken off the felly.

1,686,046. WINDOW STRUCTURE. WILLIAM H. TAYLOR, Des Moines, Iowa. Filed Sept. 1, 1927. Serial No. 216,904. 7 Claims. (Cl. 189—69.)

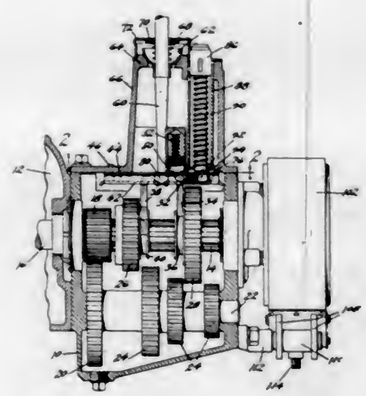
1. In a structure of the class described, an all metal window frame comprising top and bottom and end frame members formed with inner facing flanges, portions projecting outwardly therefrom and stop flanges, said outwardly projecting portions of the end frame members being formed at their upper parts with slots tapered outwardly toward their lower ends, one of the facing flanges being

provided with a slot communicating with one of said first slots, a sash frame having at its upper portion laterally projecting spindles for entering said first described slots,



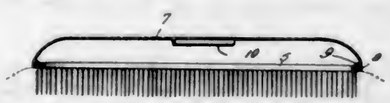
one of said spindles having a rabbeted end for entering said second described slot when the sash is swung to position substantially at right angles to the frame.

1,686,047. TRANSMISSION LOCKING DEVICE. PERRY L. TENNEY, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed May 7, 1923, Serial No. 637,230. Divided and this application filed Aug. 2, 1926. Serial No. 126,658. 7 Claims. (Cl. 70—90.)



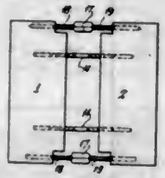
1. A transmission lock comprising in combination, shifter forks, a lever movable into a position to operate either fork, an interlocking device positively operated by the lever to prevent movement of the idle fork, and a lock including a bolt movable into locking engagement with the interlocking device and one shifter fork.

1,686,048. GRAVE COVER. ANTHONY W. THOMPSON, California, Mo. Filed Sept. 1, 1927. Serial No. 216,086. 2 Claims. (Cl. 27—30.)
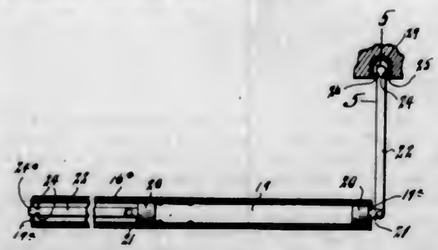


1. A device of the class described comprising a cover having a plurality of spikes extending vertically from one side thereof in closely spaced relation and adapted to penetrate the ground at the edges of the cover, whereby to form a barrier against the entrance of animals to the area beneath the cover.

1,686,049. METHOD OF MAKING TOILET SEATS. WILLIAM F. TILL, Brooklyn, N. Y. Filed Mar. 20, 1928. Serial No. 263,143. 5 Claims. (Cl. 144—31.)



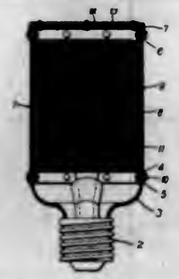
1. The hereindescribed method of making a toilet seat which consists in bringing the sections of the seat into spaced-apart juxtaposition with right and left hand threaded tie members projected into alined holes in the respective sections, and thereafter drawing said sections together by applying tension between them for the purpose of fully entering the tie members into the holes of the respective sections and bringing the contiguous edges of such sections into abutting relation.

1,686,050. AUTOMOBILE AWNING. FOSTER V. WALTZ, St. Louis, Mo. Filed Oct. 27, 1926. Serial No. 144,502. 9 Claims. (Cl. 156—44.)



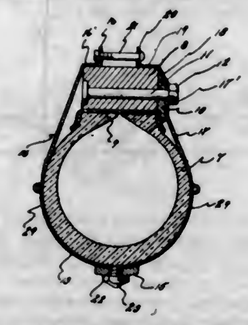
1. An automobile awning comprising a support arranged above a window opening, a roller journaled in said support, a shade attached to said roller and extensible outwardly through said window opening, an open ended tubular member secured transversely to the free end of said shade, a pair of plugs slidably disposed in said tubular member, and a mounting bracket having one end pivotally secured to the outer end of a corresponding plug and having the opposite end adapted to be detachably secured to the body portion of the automobile adjacent to said window opening for holding said shade in extensible position.

1,686,051. MEANS FOR PREVENTING EXPLOSIONS. HENRY C. P. WEBER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 23, 1922. Serial No. 546,003. 5 Claims. (Cl. 247—1.)



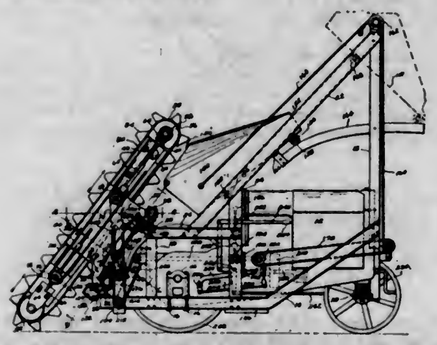
1. A protective device for consuming gaseous vapors comprising a filament composed of a metal capable of causing combustion of gaseous mixtures at temperatures ranging from 600° to 800° C., a base to which said filament is electrically connected and which is adapted to fit into a standard lamp socket, and a housing comprising a Davey safety lamp diaphragm secured to said base to provide a combustion chamber for said filament.

1,686,052. DETACHABLE ANTISKID TREAD. OLAF WEBBAO, Dearborn, Mich. Filed Dec. 7, 1925. Serial No. 73,644. 1 Claim. (Cl. 152—16.)



A device of the class described adapted for use with a vehicle wheel having a felly, bolts projected therethrough and a tire carried by said felly, comprising: a plurality of sections positioned on the tread portion of said tire and extending circumferentially thereof; oppositely disposed co-operating attachment lips swingably mounted on said sections, the clips on one side of said felly being formed to lie in engagement with the side face of said felly and provided with openings for accommodating the bolts projected through said felly, each of said clips being angularly turned at its free end for engaging the inner surface of said felly; and a bolt projected through the free ends of said clips for clamping the same in engagement with said felly.

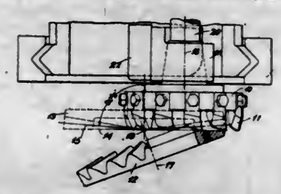
1,686,053. MATERIAL LOADER. ROBERT L. WHEATLEY, Hammond, Ind., assignor of one-tenth to Fred D. Wilson, Harvey, Ill. Filed Dec. 23, 1926. Serial No. 156,730. 11 Claims. (Cl. 37—101.)



1. In combination with an automotive vehicle, a supplemental frame, a movable hopper thereon, a digger movable sidewise across said frame delivering in said hopper and means for dumping the hopper by power from the vehicle motor.

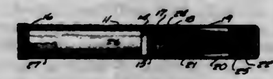
1,686,054. METHOD OF GENERATING BEVEL GEARS. ERNEST WILDHABER, Brooklyn, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Feb. 28, 1927. Serial No. 171,610. 28 Claims. (Cl. 90—4.)

1. A method of producing a bevel gear which consists in cutting each of its side tooth surfaces by moving a tool having a cutting edge of convex profile, across the face of a tapered gear blank while imparting a relative rolling movement between the tool and blank as though the blank were rolling with a basic gear having conical top, pitch, and root surfaces, and a pitch cone angle different from the pitch cone angle of its mating gear.



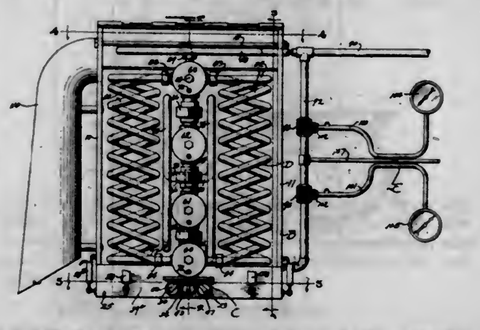
25. The method of producing a pair of bevel gears which consists in cutting the side tooth surfaces of both members of the pair two sides simultaneously with a rotary annular face mill, having cutting edges adapted to finish cut adjacent side tooth faces of a gear blank, one member of the pair being cut in a generating operation in which the tool is rotated in engagement with a tapered gear blank while the blank is rotated on its axis and simultaneously an additional relative movement is imparted between the tool and blank about an axis intersecting the blank axis and parallel to the tool axis, the other member of the pair being cut in a generating operation in which the tool is rotated in engagement with a tapered gear blank while the blank is rotated on its axis and simultaneously an additional relative movement is imparted between the tool and blank about an axis intersecting the blank axis and angularly inclined to the tool axis.

1,686,055. SHAVING BRUSH AND SOAP OUTFIT. HOWARD AUSTIN WHITESIDE, Rye, N. Y. Filed Mar. 8, 1927. Serial No. 173,666. 10 Claims. (Cl. 132—81.)



1. In combination, a tubular sleeve, a ring at one end of the sleeve, a cap removably carried by the ring, a shaving brush having a base, the ring having a hole into which the base of the shaving brush is insertible, and a soap cartridge removably carried in the sleeve, the soap being accessible through the other end of the sleeve, the sleeve and ring acting as a handle for the shaving brush.

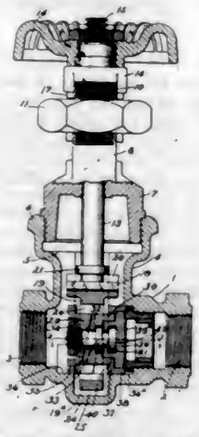
1,686,056. STEAM-BOILER CONSTRUCTION. JOHN G. WILL, Canon City, Colo. Filed Sept. 1, 1923. Serial No. 660,562. 5 Claims. (Cl. 122—250.)



1. A boiler construction comprising a series of headers arranged one over the other in a vertical plane, a pair of preheating coils disposed one at each side of the headers, each of said coils being wound with the convolutions all in a plane and parallel with the plane of the headers, com-

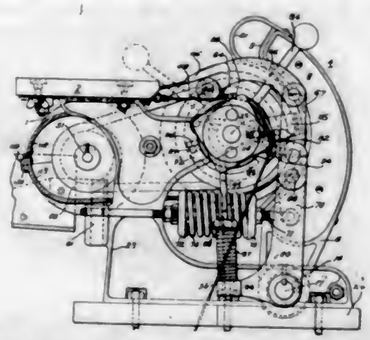
municating means extending centrally between said coils, water inlet means for one of said coils, and means communicating the other of said coils with the lowermost header of said boiler arrangement.

1,686,057. HIGH-PRESSURE GATE VALVE. BELVIN T. WILLISTON, Somerville, Mass., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y., a Corporation of Delaware. Continuation of application Serial No. 712,950, filed May 13, 1924. This application filed May 3, 1926. Serial No. 106,205. 12 Claims. (Cl. 251.)



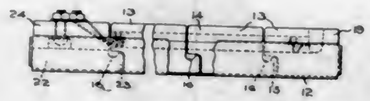
1. A gate valve comprising a casing having inlet and outlet openings connected by a fluid passage, a carriage reciprocable transversely of the fluid passage, means for moving the carriage, said carriage having a vertically elongate slot closed at its lower end and whose opposite walls are provided with inclined cam ribs, a head disposed within said slot, said head comprising sleeve members disposed end to end and means uniting the sleeve members, said sleeve members having opposed surfaces defining between them inclined grooves on opposite sides of the head which receive the respective cam ribs of the carriage, and a valve disc carried by the head, said cam ribs and inclined grooves cooperating to move the head with the valve disc in opposite directions.

1,686,058. IRONING MACHINE. ALLEN S. WISE, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 2, 1925. Serial No. 41,002. 10 Claims. (Cl. 68—9.)



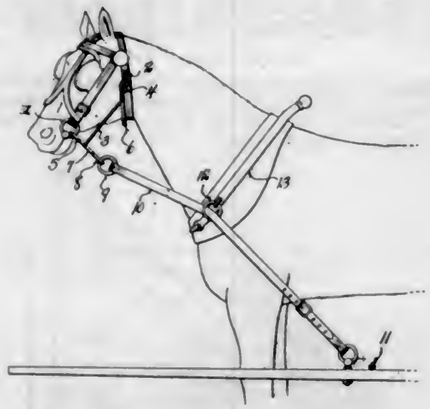
1. The combination of an ironing roll, an ironing shoe movable towards and from said roll, power means for rotating said roll, said shoe being movable against said roll by the direct-exercise of force by an operator, and means operative when said shoe is against said roll to transmit power from said power means to said shoe for pressing said shoe against said roll.

1,686,059. ELECTRIC HEATING UNIT. JAMES C. WOODSON, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 24, 1925. Serial No. 25,606. 1 Claim. (Cl. 219—37.)



In an electric heater, in combination, a plurality of grooved refractory electric-insulating members located in abutting relation and having their adjacent edge portions overlapping each other, metal supporting means for said refractory members interfitting therewith, a refractory terminal-member-supporting plate at one end of said heater, and a refractory spacing plate between said terminal-member-supporting plate and said metallic supporting means.

1,686,060. HEAD CHECK. CHARLES ACHENBACH, Manitowoc, Wis. Filed Oct. 1, 1927. Serial No. 223,390. 3 Claims. (Cl. 54—57.)

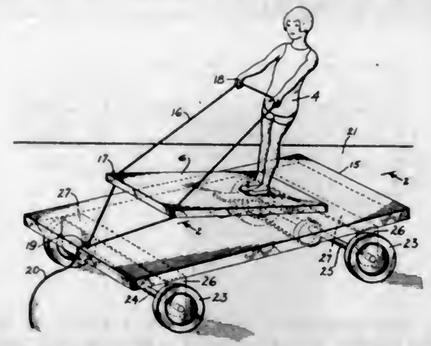


1. An animal check comprising a pair of spaced bars having means adjacent their upper ends for attachment to a bridle or headgear, a metal strap connecting the upper ends of said bars, a yoke carried by the lower ends of said bars, and a strap for connecting said yoke to a stationary bar of a vehicle or implement.

1,686,061. FIGURE WHEEL TOY. ALBERT A. ALLINGER, Richmond Hill, N. Y. Filed Mar. 10, 1927. Serial No. 174,126. 1 Claim. (Cl. 46—45.)

A toy comprising a platform, a front and a rear axle to support the platform and wheels supporting the axles, a board hinged at its rear end to the platform, a doll

mounted on the board, said platform being formed with an aperture beneath the board, a cam guide secured to the



board and extending downwardly and rearwardly and curving upwardly about the rear axle and a cam carried by the rear axle to engage the cam guide.

1,686,062. THERAPEUTIC COMPOSITION. CHARLES F. AMACKER, Bogalusa, La. Filed July 8, 1927. Serial No. 204,430. 3 Claims. (Cl. 167—9.)

1. A new product having therapeutic properties including a mercury derivative of di-brom-fluorescein and iodine.

2. A new product having therapeutic properties including a salicylic acid, iodine and a mercury derivative of di-brom-fluorescein.

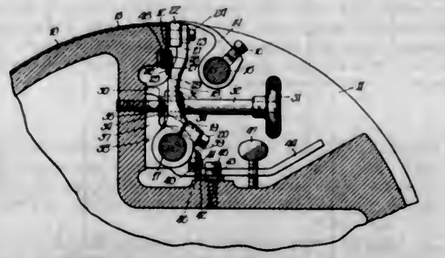
1,686,063. PACKING AND PROCESS OF MAKING SAME. BURNIE L. BENBOW, Cleveland, Ohio. Filed Mar. 28, 1921. Serial No. 456,185. 11 Claims. (Cl. 154—2.)

1. The process of making packing which includes immersing a base material in a liquid bath containing deflocculated graphite in suspension, removing the base material from the bath, and evaporating the liquid therefrom, thereby leaving thereon a dry adherent coating of graphite.

1,686,064. PROCESS OF CONCENTRATING OXIDIZED ORES AND MINERALS. FRANK A. BIRD, Salt Lake City, Utah. Filed Aug. 30, 1926. Serial No. 132,659. 1 Claim. (Cl. 209—9.)

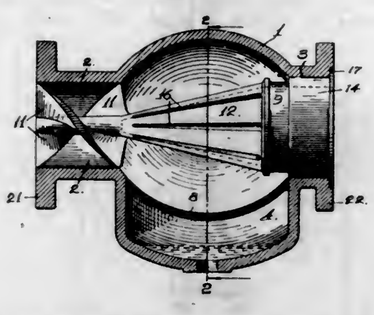
The process of treating oxidized ores to render them amenable to concentration by the flotation process, which consists in grinding the ore in a mill free from metal surfaces with which the ore would be liable to make contact, and subjecting the ground ore to a sulphidizing agent whereby to deposit a film of sulphide thereon.

1,686,065. PRINTING-PRESS BLANKET CLAMP. JOSEPH R. BLAINE, Oak Park, Ill., assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1927. Serial No. 171,511. 8 Claims. (Cl. 101—415.1.)



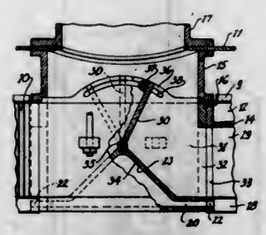
2. In a printing press, the combination of a support, a blanket carried thereby, a clamping element secured to the edge of said blanket, and a gripper pad support cooperating with said clamping element for locking said blanket to said first mentioned support.

1,686,066. SEPARATOR. HARRY E. BOYRIE, San Francisco, Calif., assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed Jan. 16, 1926. Serial No. 81,728. 7 Claims. (Cl. 183—79.)



1. As an article of manufacture, a separator comprising a separator chamber having inlet and outlet ports; a liquid receiving chamber formed below the separator chamber and communicating therewith through a slot formed in the bottom of said separator chamber; a member mounted within the separator chamber and extending between the inlet and outlet ports, said member being provided with a helical baffle disposed within the inlet port and arranged to impart a rotating movement to a fluid stream moving therepast whereby entrained liquid will be deposited by centrifugal force against the walls of the chamber and drained through the slot into the liquid receiving chamber, said member being also provided with a hood formed integrally therewith and extending across the chamber and connected to the outlet port and having slots through which the dry fluid may pass to said outlet.

1,686,067. FLUID SEPARATOR. GRANT D. BRADSHAW, Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed May 12, 1927. Serial No. 190,723. 9 Claims. (Cl. 183—111.)

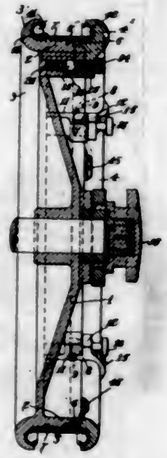


1. A steam separator comprising a T outlet, steam separator sections connected to said outlet on each side thereof, a water passageway in each of said sections, and a water passageway in said T outlet connecting the passageways in said sections.

1,686,068. RIM-REMOVING DEVICE. FRANCIS W. BRIGGS, Medford, Mass. Filed May 18, 1925. Serial No. 30,945. 2 Claims. (Cl. 301—23.)

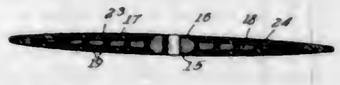
2. In combination with a wheel structure having a projectable locking detent, a removable rim part interlocked

with said detent by a rotary motion, and a manually operable lock for releasably holding said detent projected,



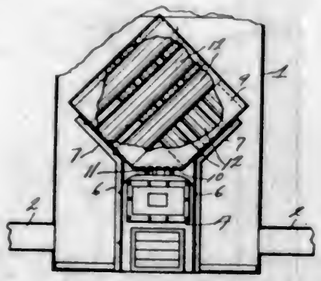
and comprising a key operated member rotatable into engagement with said detent about an axis transverse to the line of projection of said detent.

1,686,069. PROPELLER. HERBERT E. BUCKLEN, Elkhart, Ind. Filed Feb. 8, 1926. Serial No. 86,684. 1 Claim. (Cl. 170—159.)



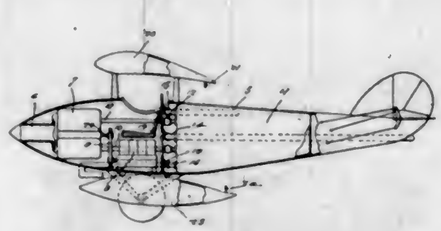
A propeller comprising a core and a propeller shaped body surrounding the core and formed of molded cork.

1,686,070. AIR-HEATING FURNACE. LOUIS BURMESTER, Omaha, Nebr. Filed Feb. 21, 1928. Serial No. 255,884. 3 Claims. (Cl. 126—116.)



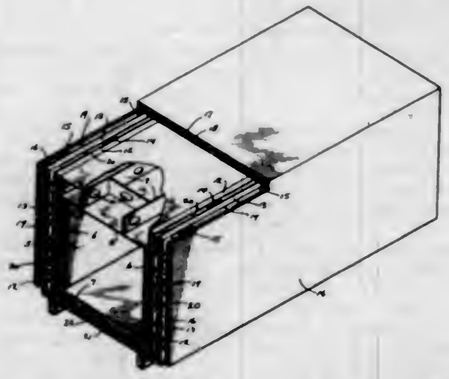
1. An air heating furnace comprising a main casing, a tube carrying casing within the main casing, said tube carrying casing having diagonal corners in a vertical plane, a combustion chamber casing below the tube carrying casing, discharge pipes connecting the combustion chamber casing and the tube carrying casing, a discharge pipe connecting the rear side of the combustion chamber casing and the tube carrying casing and means for closing said last named pipe.

1,686,071. AEROPLANE. VINCENT CAVALERI, Brooklyn, N. Y. Filed Aug. 20, 1927. Serial No. 214,304. 2 Claims. (Cl. 244—18.)



2. In an aeroplane having a fuselage, a tank in the rear of the fuselage, said tank adapted to store air under pressure, a plurality of pipes extending forwardly from the tank, then laterally in different directions, and then rearwardly, valves in said pipes, and means for simultaneously operating the valves.

1,686,072. REFRIGERATOR. JENS C. CHRISTENSEN, Buffalo, N. Y. Filed Mar. 31, 1926. Serial No. 98,910. 4 Claims. (Cl. 217—5.)

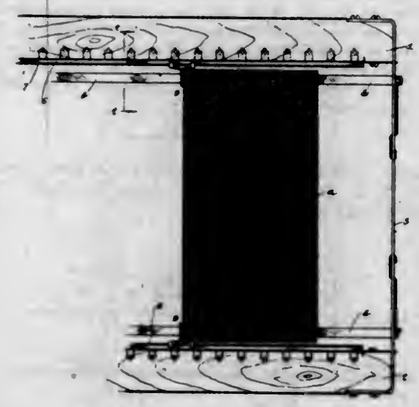


1. A refrigerator comprising inner refrigerator walls, an inner cork side wall in contact with the inner refrigerator wall at each side of the refrigerator, an outer cork wall in spaced relation with each of the inner cork walls, and an outer side wall in spaced relation with each of the outer cork walls, the spaces between the inner and outer cork walls being closed and separated from the spaces between the outer cork walls and the outer side walls, the spaces between the outer walls and the outer cork walls being separate and non-communicating and open only at the bottom, whereby both sides of the outer walls will be subjected to atmospheric temperature.

1,686,073. HEDDLE FRAME. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Oct. 20, 1924. Serial No. 744,543. Renewed Jan. 9, 1928. 4 Claims. (Cl. 139—92.)

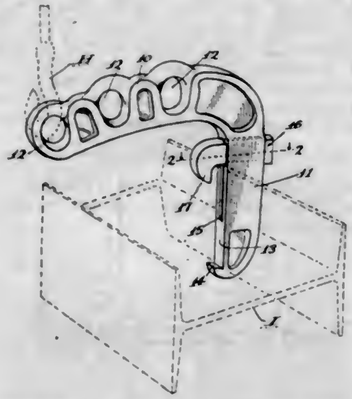
1. A heddle frame comprising a wooden main frame bar, a heddle bar, and means for supporting the heddle bar intermediate its ends, said means comprising a guide bar of substantially the same length as the frame bar and of T-

shape in cross-section, said guide bar comprising a vertical central web and horizontal flanges, said web having tangs thereon which are driven into the frame bar to secure the



guide bar in place, and a member slidably engaging the heddle bar and slidably mounted upon the horizontal flanges of said guide bar.

1,686,074. ADJUSTABLE POSITIVE-GRIP STEEL-BEAM HOOK. CARLTON E. CURRIE, Los Angeles, Calif. Filed July 28, 1926. Serial No. 125,423. 3 Claims. (Cl. 294—82.)

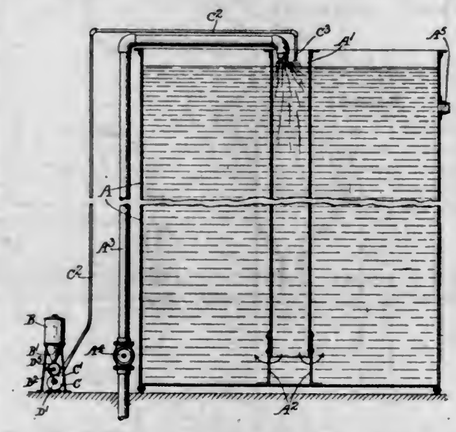


1. A device of the class described comprising a body providing two arms rigidly connected together and arranged at an angle to each other, there being a shoulder adjacent the end of one arm on that side disposed toward the other arm, said other arm being adapted to be lifted by a lifting element and means mounted upon the first mentioned arm for holding the upper part of an object placed upon the shoulder adjacent the first mentioned arm.

1,686,075. PROCESS OF MAKING SYNTHETIC PIG IRON. EMIL EDWIN, Trondhjem, Norway, assignor to the Firm: Aktieselskapet Norsk Staal (Elektrisk-Gas-Reduktion), Oslo, Norway. Filed Jan. 25, 1927, Serial No. 163,550, and in Norway Dec. 10, 1925. 2 Claims. (Cl. 75—27.)

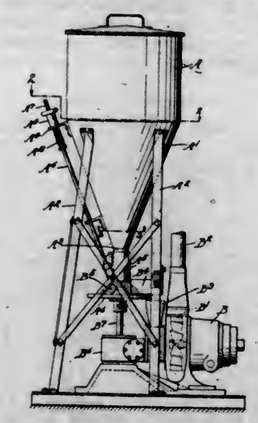
1. Process of producing synthetic pig iron from pure sponge iron, which is obtained by reducing iron ore by means of reducing gases and magnetically separating iron and gangue, comprising mixing finely divided pure sponge iron intimately with finely divided substantially pure carbonaceous material without addition of other ferrous material and subjecting the mixture to melting in an electric furnace under acid conditions and at as low a temperature as possible.

1,686,076. METHOD AND APPARATUS FOR MIXING SOLIDS WITH LIQUIDS. WILSON EVANS, Chicago, Ill., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill., a Corporation of Delaware. Filed June 6, 1927. Serial No. 196,810. 6 Claims. (Cl. 210—16.)



1. The process of mixing liquids and solids which consists in projecting a continuous stream of finely divided solids at high velocity against the surface of the liquid with which the solid is to be mixed.

1,686,077. DRY FEEDING AND MEASURING MACHINE. WILSON EVANS, Chicago, Ill., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill., a Corporation of Delaware. Filed Oct. 7, 1927. Serial No. 224,597. 10 Claims. (Cl. 221—118.)

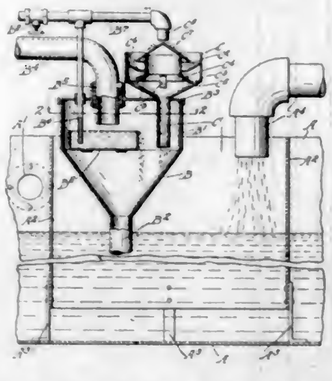


5. The process of discharging material by gravity from a receptacle which consists in withdrawing a plurality of separate streams of material from the underside of the receptacle at spaced points thereupon and converging said streams and discharging them at a common discharge point.

9. The combination with a cylindrical receptacle having a conical bottom of discharge means therein comprising an

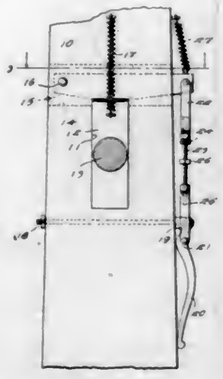
apertured plate located adjacent the largest portion of the conical bottom, a relatively small apertured plate located adjacent the discharge mouth of the conical bottom, a plurality of gravital discharge passages joining pairs of apertures in said plates and all discharging into the open mouth of the conical bottom.

1,686,078. MIXING DEVICE. WILSON EVANS, Chicago, Ill., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 7, 1927. Serial No. 231,432. 11 Claims. (Cl. 210—29.)



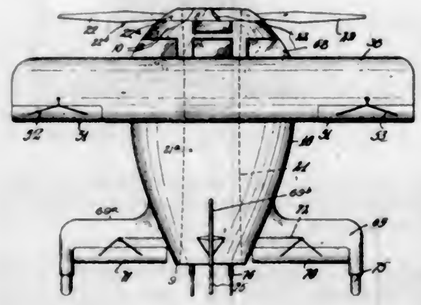
1. A mixing device for water treating plants and the like comprising a dust tight housing, a discharge passage leading therefrom and having its end immersed in the water, a pan contained within the housing, means for continuously supplying water to and permitting it to overflow therefrom, a pneumatic conveyor adapted to discharge air suspended solids into the housing against the water in the pan, an air discharge vent from the housing, means located within the vent for washing the air and means for mixing the air washing water with the pan water.

1,686,079. WRIST-PIN-BEARING HOLDER. WILLIAM H. FENNEMAN, Taft, Calif., assignor to Mary Katherine Fenneman. Filed Jan. 6, 1927. Serial No. 159,452. 1 Claim. (Cl. 287—93.)



A pitman having an upper wrist-pin opening, a bearing block in the opening, a transverse opening intersecting the upper end of the wrist-pin opening, means for normally urging the block into the transverse opening, an arm pivotally supported in the transverse opening and having a convex face bearing on the upper end of the block, resilient means for normally urging the arm away from the block, an eye bolt disposed transversely through the pitman beneath the bearing block opening, a bent lever pivotally mounted on the eye bolt, a yoke pivotally connected to the free end of the said arm, a yoke pivotally connected with the lever adjacent its pivotal connection with the eye bolt, and an oppositely threaded bolt engaged in the adjacent ends of said yokes.

1,686,080. CYCLOPLANE. MICHAEL HUGH FORD, Jersey City, N. J. Filed May 29, 1925. Serial No. 33,597. 55 Claims. (Cl. 244—14.)



1. An aircraft for vertical and horizontal flight, comprising a propeller, an elongated fuselage having an empennage with stabilizing fins, landing members carried by said fins for supporting the craft vertically upright on the ground, a movable load container in the fuselage, a pilot's control therefor, and means for shifting the craft from vertical to horizontal including said load container.

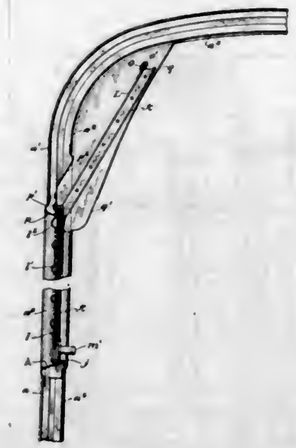
1,686,081. STRAW HAT. JACOB FRIEDMAN, Brooklyn, N. Y. Filed Nov. 26, 1927. Serial No. 235,776. 2 Claims. (Cl. 2—193.)



1. A braided straw hat having a crown, a two-ply brim spaced circumjacent the crown, an intervening two-ply element composed of a series of unstiffened braid coils, a covered elastic band wound spirally between the upper and lower intervening braid coils at the juncture of the coils, and rows of stitches retaining the braid coils and elastic band in such manner as to permit limited relative movement of the coils.

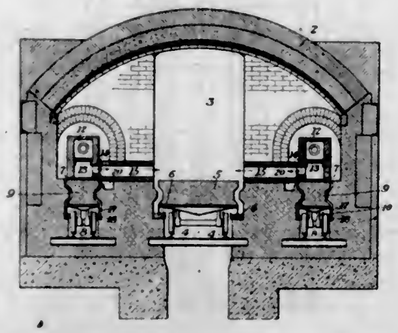
1,686,082. WINDOW CONSTRUCTION. CHARLES FROESCH, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Original application filed Sept. 5, 1924, Serial No. 736,009. Divided and this application filed Nov. 12, 1926. Serial No. 147,923. 11 Claims. (Cl. 296—45.)

1. In an adjustable window, a casement, a sash, tracks comprising fixed strips and movable strips carried with the casement, yielding non-metallic material interposed between the casement and the movable strips, rollers on the sash and positioned between the fixed and movable strips, removable face plates on the casement, and means to secure the plates in telescoping position with respect to



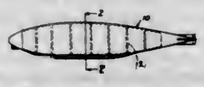
the movable strip to confine the yielding material between the plates and movable strips under compression, whereby movement of the sash is yieldingly resisted.

1,686,083. TUNNEL KILN, FURNACE, AND THE LIKE. CHARLES F. GEIGER, Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Feb. 1, 1927. Serial No. 165,109. 15 Claims. (Cl. 263—43.)



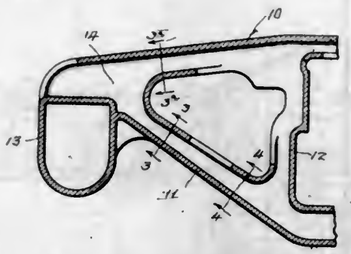
2. The combination with a furnace having a passageway therein, of a combustion chamber movable along the passageway.

1,686,084. AIRCRAFT. CHARLES S. HALL, Oakland, Calif. Filed Sept. 15, 1926. Serial No. 135,507. 9 Claims. (Cl. 244—3.)



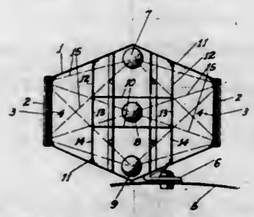
1. In an aircraft, a gas holding compartment, a gas heating means, a gas cooling means, and a gas purifying means, and a means to remove gas from said compartment and to return it to said compartment through any one or more of said three first mentioned means.

1,686,085. SIDE-FRAME STRUCTURE. CLARENCE B. HARRISON, Lima, Ohio, assignor to The Ohio Steel Foundry Company, Lima, Ohio, a Corporation of Ohio. Filed Oct. 29, 1927. Serial No. 229,574. 2 Claims. (Cl. 105—205.)



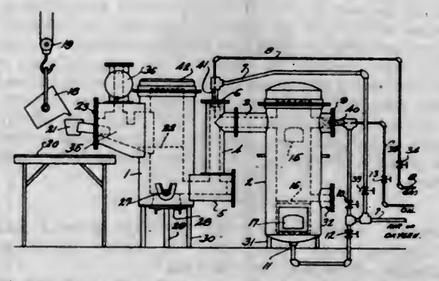
1. A side frame comprising an integral casting including journal boxes, and tension and compression members converging at opposite ends adjacent said journal boxes, said tension and compression members each having arcuate cross sections intermediate their ends merging into box sections adjacent each of said journal boxes.

1,686,086. MOTOR-VEHICLE SIGNAL. FRANK L. HARRIS, Stockton, Calif. Filed Nov. 9, 1927. Serial No. 232,092. 1 Claim. (Cl. 177—329.)



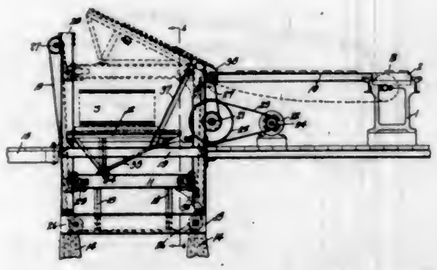
A signal device including a casing open at one end, a translucent screen across said end, an opaque panel in the casing behind and spaced from the screen and parallel thereto, said panel having a plurality of vertically spaced signal-symbols cut therethrough, superimposed compartments formed in the casing behind the panel, the symbols registering individually with the different compartments, and lights in said compartments disposed relative to the panel and to the screen to cause the outline of all said symbols to be projected in complete and magnified form onto the screen.

1,686,087. ART OF REFINING IRON AND STEEL PRODUCTS. CHARLES W. HILL, Birmingham, Ala. Filed Nov. 30, 1925. Serial No. 72,136. 4 Claims. (Cl. 75—44.)



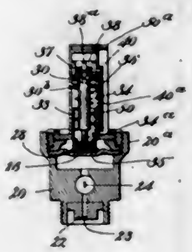
1. A process of treating molten metal, by which regulated and controlled volumes of gases are forced into molten metal while controlling the temperature and pressure of said molten metal so that the amount of gases absorbed by the molten metal may be definitely controlled.

1,686,088. UNLOADING MACHINE. FREDERICK W. HORSTKOTTE, Portland, Oreg. Filed Oct. 12, 1927. Serial No. 225,740. 7 Claims. (Cl. 214—8.5.)



1. The combination with a vertically movable elevator and a tiltable chute thereon adapted to receive a plurality of layers of material, of means for retaining the tilted stack and means for permitting discharge of the uppermost layer of the stack.

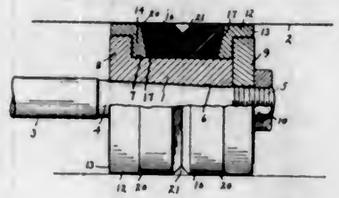
1,686,089. TIRE-PROTECTING SIGNAL. JOHN E. KENNEDY and MICHAEL A. KENNEDY, Los Angeles, Calif. Filed Aug. 17, 1925. Serial No. 50,576. 5 Claims. (Cl. 116—34.)



5. In a device of the class described, the combination with a valve air-pressure chamber adapted to contain constant communication with the tire stem, a piston chamber secured thereto, an imperforate diaphragm preventing the passage of air from one casing to the other, an indicating pointer mounted on the piston casing to indicate at a distance from the tire over-inflation or under-inflation of the tire, and a piston resting upon said diaphragm, said piston comprising extensibly adjustable members connected by a tensioning nut so as to vary either the effective length of the piston or the tension of the spring without one adjustment affecting the other, substantially as described.

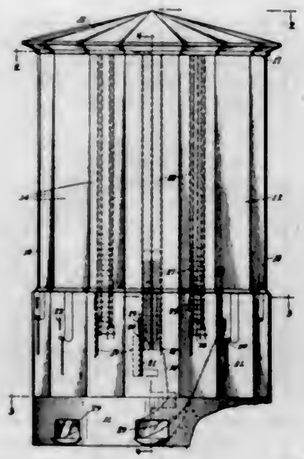
1,686,090. PISTON PACKING. JOHN W. MACCLATCHIE, Compton, Calif. Filed Dec. 22, 1926. Serial No. 156,284. 7 Claims. (Cl. 74—108.)

1. A piston adapted for reciprocation in a cylinder containing a medium under pressure, a packing annulus on the piston, and an abutment, slidable relative to the piston responsive to the pressure in the cylinder and engaging the end of the packing for axially compressing the packing and thereby radially expanding it into packing engagement with the wall of the cylinder, the packing annulus being recessed medially of its length to reduce its thickness and



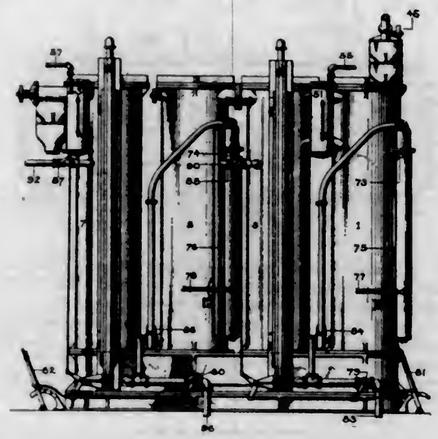
having end portions of uniform relatively greater thickness extending from said medial recess to the respective ends of the annulus.

1,686,091. VENDING-MACHINE CABINET. LANDON C. MANNING, New York, N. Y., assignor to Pack Shops, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 27, 1925. Serial No. 71,599. 17 Claims. (Cl. 312—42.)



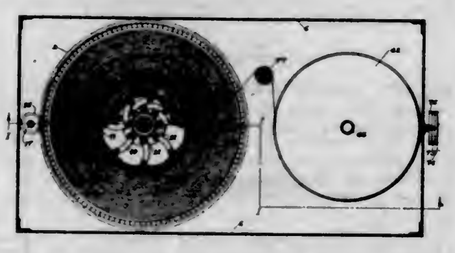
1. In a vending machine, the combination of an upstanding cabinet substantially semicircular in horizontal cross-section, a floor defining the bottom of the cabinet, said floor provided with a discharge opening located at the center of its semi-circular outline leaving the space above the floor and between the curved side of the cabinet and the vertically projected outline of the opening as a semi-annular space, a plurality of vertically extending package reservoirs each substantially rectangular in plane and disposed in radially disposed position in said semi-annular space and said reservoirs coacting substantially to fill the semi-annular space considered horizontally whereby a maximum number of reservoirs for containing rectangular packages may be contained within the outlines of a semi-circular vending machine.

1,686,092. PROCESS OF AND APPARATUS FOR THE CONTINUOUS COUNTERCURRENT TREATMENT OF LIQUIDS AND SOLIDS. FRED W. MANNING, Berkeley, Calif. Filed Mar. 20, 1926. Serial No. 96,343. 40 Claims. (Cl. 210—177.)



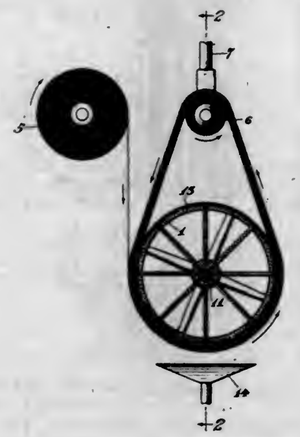
2. A filtering process which comprises introducing treating solids into an elastic fluid zone situated above the level of a liquid to be filtered, distributing the solids throughout the liquid, and thereafter filtering the liquid through the solids.

1,686,093. PROCESS OF AND APPARATUS FOR CONTINUOUS-PRESSURE FILTRATION. FRED W. MANNING, Berkeley, Calif. Filed Apr. 11, 1927. Serial No. 182,925. 22 Claims. (Cl. 210—196.)



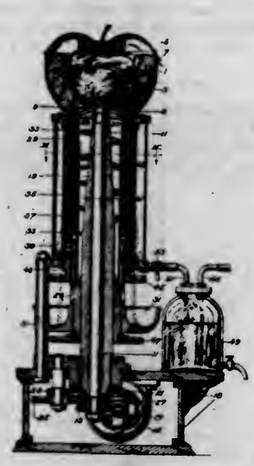
16. A filtering process consisting of passing a fluid through a filter member formed of layers of filter material, continuously removing the inlet surface portion of the member to provide fresh filtering surface to the fluid to be filtered, and simultaneously adding a fresh filter layer to the outlet surface portion of the member.

1,686,094. PROCESS OF AND APPARATUS FOR CONTINUOUS COUNTERCURRENT FILTRATION. FRED W. MANNING, Berkeley, Calif. Filed June 21, 1927. Serial No. 200,357. 12 Claims. (Cl. 210—197.)



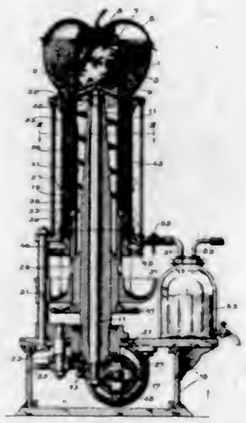
1. A filtering process which comprises passing a fluid through a constantly renewing filter member formed of layers of treating material, the said member moving continuously in a direction opposed to the flow of the fluid.

1,686,095. CONTINUOUS EXPELLING AND CLARIFYING PROCESS. FRED W. MANNING, Berkeley, Calif. Filed Nov. 20, 1924. Serial No. 751,058. 3 Claims. (Cl. 210—194.)



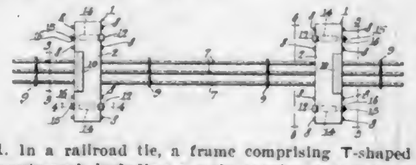
1. The proces of treating fruit and vegetable juices by passing the said juices through a body of treating solids, said solids being continuously moved over a filter wall.

1,686,096. CONTINUOUS EXPELLING AND CLARIFYING PROCESS AND APPARATUS. FRED W. MANNING, Berkeley, Calif. Filed Mar. 6, 1928. Serial No. 259,583. 7 Claims. (Cl. 210—194.)



1. A process of the character described comprising disintegrating fruit or vegetables and removing the juices from the disintegrated solids in the absence of air.

1,686,097. RAILROAD TIE. ROBERT E. L. MAXEY, New York, N. Y. Filed Sept. 24, 1927. Serial No. 221,807. 6 Claims. (Cl. 238—42.)



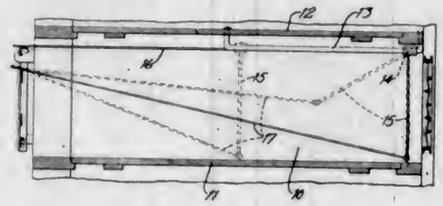
1. In a railroad tie, a frame comprising T-shaped rail supports each including a main member and a depending flange, connecting rods mounted in the flanges and joining the supports, anchor rods mounted intermediate their ends in the flange of each support and having their inner ends spaced apart, and a body in which the frame is mounted.

1,686,098. INSULATED FLEXIBLE CONDUCTOR AND METHOD OF PRODUCING SAME. FRANZ MEIWALD, Vienna, Austria. Filed Apr. 29, 1927, Serial No. 189,731, and in Austria Dec. 14, 1926. 4 Claims. (Cl. 173—264.)



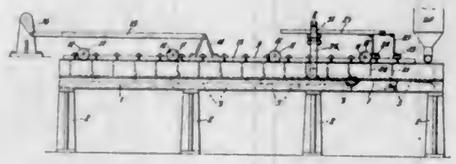
4. A flexible conductor comprising a conductor core, a suitable outer fabric covering, and an insulating band of substantially tissue-thin gutta-percha between the conductor core and cover and helically wound about the conductor core with the edges of its windings overlapping.

1,686,099. POULTRY-COOP UNLOADER. ARTHUR MILLER, Chicago, Ill. Filed Sept. 22, 1927. Serial No. 221,363. 3 Claims. (Cl. 217—64.)



1. A poultry coop unloader comprising a partition slidably and hingedly mounted at its upper edge in the coop and normally located in a vertical position at the outer end of the coop, means for sliding said partition toward the inner end of said coop to move the contents forward, and means for swinging said partition from a normal vertical position to a substantially horizontal position adjacent the ceiling of the coop.

1,686,100. APPARATUS FOR THE ACTIVATION OR REVIVIFICATION OF CARBON. STANLEY A. W. OKELL, Tyrone, Pa., and LEONARD WICKENDEN, Flushing, N. Y., assignors to Industrial Chemical Company, New York, N. Y., a Corporation of New York. Filed Aug. 1, 1925. Serial No. 47,480. 8 Claims. (Cl. 266—15.)



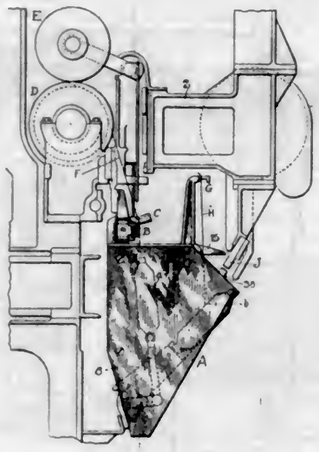
1. In apparatus for activating or revivifying carbon, a long shallow trough provided with a longitudinal series of rakes, means for causing the rakes to oscillate longitudinally to and fro, the rakes being so shaped as to agitate and gradually propel the charge from rake to rake through the trough.

1,686,101. FILLER WEATHER STRIP. RICHARD O. OAKLEY, St. Louis, Mo. Filed Apr. 28, 1926. Serial No. 105,165. 2 Claims. (Cl. 20—69.)



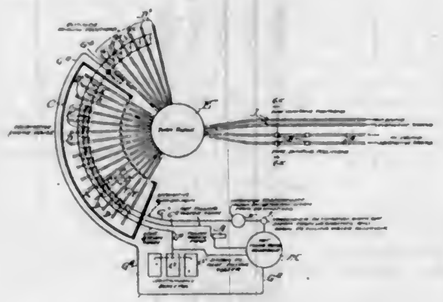
1. A filler weatherstrip applied between the parting bead of a window and the bottom and sides of a notch cut in the meeting rails of the window sash and comprising a front member and a body member of compressible material secured thereto, said front member having a contacting portion and attaching portions extending beyond said body member and positioned in a plane substantially parallel to the plane of said contacting portion and removed therefrom a distance substantially equal in thickness of said body member, and said attaching portion having a hole therein through which is passed the attaching means for securing the weatherstrip to said parting bead, said hole being larger than said attaching means.

1,686,102. WINDER. BURT A. PETERSON, Rockford, Ill., assignor, by mesne assignments, to Edgar S. Nethercutt, Evanston, Ill. Filed Sept. 11, 1919, Serial No. 323,194. Renewed Dec. 28, 1927. 52 Claims. (Cl. 242—35.5.)



15. The combination of a compartment having an open side and a floor inclined downwardly toward said side, a skewer arranged to support a bobbin in said compartment, and means to effect disengagement of the bobbin from the skewer within the compartment.

1,686,103. LOCOMOTIVE TERMINAL. LELAND G. PLANT, Chicago, Ill. Filed Nov. 29, 1926. Serial No. 151,445. 21 Claims. (Cl. 104—26.)



1. The method of storing steam locomotives at a terminal, which consists in discharging the locomotive fire at a fire dumping station, then placing the locomotive at the storage station, maintaining a working steam pressure with corresponding water temperature throughout the locomotive boiler while at the storage station and without fire in the locomotive, then moving the locomotive by self propulsion from the storage station, and thereafter igniting the fire and dispatching the locomotive for service.

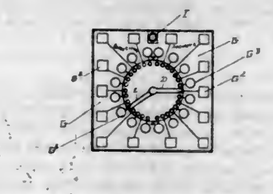
1,686,104. LOCOMOTIVE FRAME. JOHN D. RAUCH, Lima, Ohio, assignor to The Cast Steel Devices Co., Lima, Ohio, a Corporation of Ohio. Filed Apr. 30, 1926. Serial No. 105,645. 2 Claims. (Cl. 105—172.)

1. A locomotive frame comprising a single piece casting having a pair of side members with a plurality of pedestal recesses formed therein, and connecting means for said side members including a web connecting the upper margins of said side members, and a second substantially continuous web arched in longitudinal section over the upper



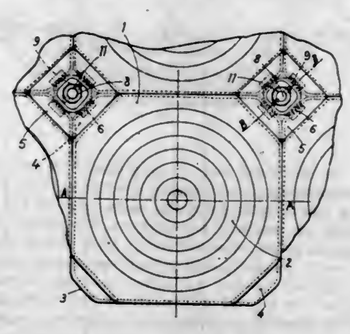
corners of said pedestal recesses and thence downwardly and along the bottom of said side members between adjacent recesses.

1,686,105. AMUSEMENT AND EDUCATIONAL DEVICE. LOUIS S. ROTHENBERG, Brookline, Mass. Filed Jan. 31, 1928. Serial No. 250,747. 3 Claims. (Cl. 35—12.)



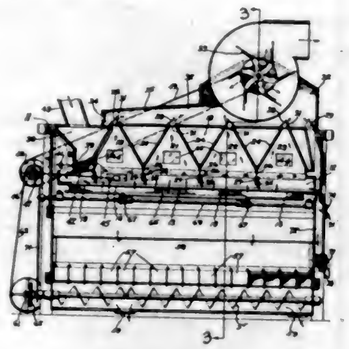
1. An educational device of the type described, comprising a base, a dial on the base having indicia thereon, a pair of pointers rotatably mounted on the base and insulated from each other, a source of electrical energy to one of the respective poles of which each pointer is connected, an alarm in the circuit of one pointer, and a plurality of contacts associated with the indicia on the dial and arranged in the paths of movement of the pointers, pairs of said contacts being connected in circuit so that when the pointers are in contact with any one of the pairs the circuit will be completed to the alarm.

1,686,106. METALLIC FLOORING PLATE FOR SHOPS AND LIKE USES. LÉON SAIVES, Billancourt, France, assignor to Louis Renault, Billancourt, France. Filed Feb. 4, 1928, Serial No. 251,984, and in France Nov. 10, 1927. 2 Claims. (Cl. 94—13.)



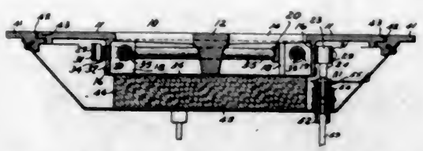
1. In a metallic flooring for factories, pressed metal plates of square form provided with four small sides at the corners completing an octagonal form, a downward flange on the edges of the metal plates and recesses on the surface of the plates in front of the small sides, an upper concave member of square form fitting into the recesses of four adjacent plates, an under concave member underneath engaging the flanges of the same adjacent plates, and means for clamping together the two concave members.

1,686,107. AIR-CONTROLLED PURIFIER. WILBUR S. SEWELL, Minneapolis, Minn., assignor to Strong-Scott Manufacturing Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 8, 1925. Serial No. 55,073. 7 Claims. (Cl. 209—28.)



1. An apparatus of the class described comprising a frame, a vibrating sieve whereto the material to be separated is delivered, means dividing the space above said sieve into a series of separate air chambers having transverse walls converging upwardly at substantially the same angle from said sieve whereby the suction will be substantially uniform in all the chambers, each chamber having a discharge throat or opening transversely of the sieve, said converging walls extending to the top of said chambers and near said openings, means for establishing currents of air selectively through sections of said sieve and through said chambers and openings, the air currents operating upon the material to separate the lighter from the heavier particles, and guided to said openings by said converging walls, and means for controlling the flow of the air currents through said sieve and chambers.

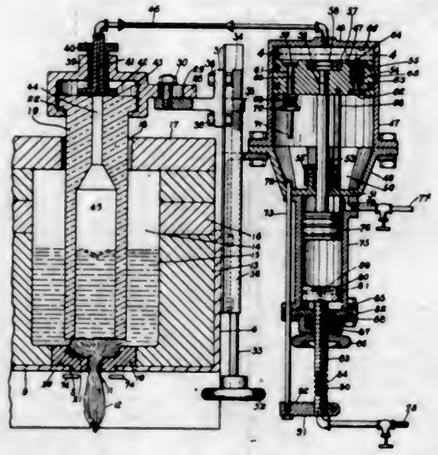
1,686,108. ELECTRICAL HEATING APPARATUS. HAROLD N. SHAW, Milwaukee, Wis., assignor, by mesne assignments, to Globar Corporation, Philadelphia, Pa., a Corporation of New York. Filed Dec. 3, 1925. Serial No. 72,880. 24 Claims. (Cl. 219—37.)



1. In an electrical heating appliance, in combination with a supporting frame having apertured wall portions extending downwardly from the upper edge of the frame, a plurality of contacts mounted on the under side of said frame in substantial alinement with alined apertures in said wall portions, and a self-sustaining resistance heating element having a portion movable through an aperture in one of said wall portions and yieldingly and detachably mounted in electrically operative position by said contacts through butt-end engagement between said contacts and said heating element.

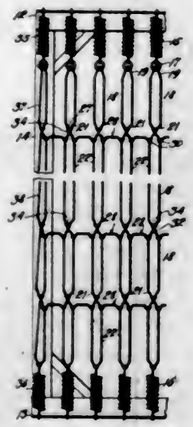
1,686,109. GLASS-FEED-CONTROL MECHANISM. SAMUEL G. STUCKEY, Middletown, Ohio. Filed May 5, 1926. Serial No. 106,935. 13 Claims. (Cl. 49—55.)

13. In an apparatus for controlling the feed of molten glass, the combination of a tubular member with an open end adapted to be immersed in a body of molten glass above a discharge opening, an air conduit leading from the upper portion of the said tube, a cylinder with which the conduit connects, a control piston movable in the said cylinder, means for reciprocating the piston to cause alternate conditions of pressure and vacuum in the tubular member above the molten glass therein, control means for



varying the quickness of movement of the control piston to produce pressure conditions, and other control means to vary the quickness of movement of the piston to produce vacuum conditions, such control means being operable independently of each other and of the speed of the apparatus as a whole.

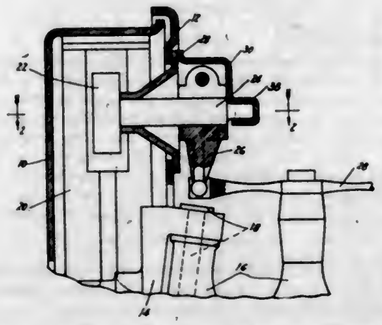
1,686,110. WIRE FABRIC. HYMAN TAMPKIN, Brooklyn, N. Y. Filed Jan. 19, 1928. Serial No. 247,790. 3 Claims. (Cl. 245—5.)



1. A wire fabric including alternate rows of links, one row comprising spaced links which extend in one general direction, the closed end of each of the spaced links having a contracted engaging portion, such engaging portion joining the sides of each of said links by inwardly bowed portions, and the opposite ends of each such link having eyes; and the second row of links comprising links which extend generally transversely to the general direction of the links of the other row, and each of such links of the second row provided with arms which extend in the same general direction as the links of the other row, said arms having eyes, whereby two eyes of adjoining links of such second row of links engage the contracted

portion of a spaced link and so on across the fabric, each of the second row links having two spaced loop portions, and the loop portions of each second row link respectively engaged with one of the eyes of a link of the other row and one of the eyes of the next link of the other row and so on across the fabric, whereby the links of the two rows are arranged in offset relation, such construction and arrangement being repeated throughout the fabric.

1,686,111. BRAKE-OPERATING MEANS. GEORGE J. THOMAS, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1927. Serial No. 165,794. 8 Claims. (Cl. 188—194.)

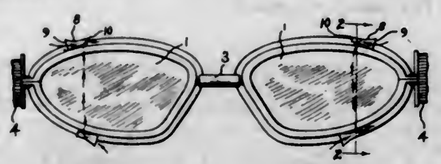


4. Brake-operating means comprising, in combination, a backing plate formed with an opening, a brake-applying shaft passing through said opening, a pair of stampings both of which are arranged on the outer side of the backing plate and which are formed with coaxial integrally-drawn sleeves in which said shaft is journalled, and means for securing said stampings to the backing plate.

1,686,112. SEPARATION OF ALUMINA FROM ALUM. GEORGE S. TILLEY, Mill Valley, Calif. Filed June 3, 1927. Serial No. 196,402. 5 Claims. (Cl. 23—142.)

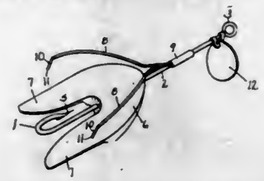
3. In the treatment of potash alum, the herein described improvement which comprises heating the crystallized alum first to a temperature substantially below that at which it would melt in its water of crystallization, maintaining the temperature for a sufficient period to remove over one half of the water of crystallization, thereafter heating said material to a sufficiently higher temperature to drive off the SO_3 which is initially combined with the alumina.

1,686,113. GOGGLES. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 5, 1927. Serial No. 203,410. 2 Claims. (Cl. 2—14.)



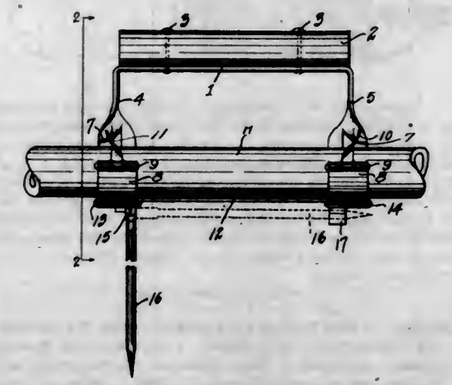
1. In a device of the character described in combination with an eye cup provided with a lens and means for holding the eye cup tightly against the face and openings through the walls of the eye cup, one on the top and the other on the bottom thereof, said openings being spaced intermediate the ends of the eye cup, and a funnel shaped tube over each opening extending longitudinally of the eye cup and having the opening through the tube communicating with the opening in the eye cup at a point intermediate the ends of the tube, the larger end of one tube being on the nasal side and the larger end of the other tube on the temporal side of the respective openings through the eye cup whereby air rushing through one tube will cause a suction to exhaust air from the interior of the eye cup and to draw fresh air into the eye cup through the other tube.

1,686,114. FISH BAIT OR LURE. CLARENCE H. WALTER, Niles, Mich. Filed Aug. 22, 1927. Serial No. 214,759. 3 Claims. (Cl. 43—39.)



1. A fish bait or lure comprising a hook provided with a shank of substantial length, a weight on said shank projecting oppositely from the point of the hook, a body of resilient material molded on said shank to embrace said weight and having relatively thin spaced wings lying at the sides of the hook and in a plane below the plane at the point of the hook, the wings being of substantial width to afford substantial transverse resistance and a pair of rearwardly diverging spring guard arms secured to said shank in advance of said body and projecting over the same with their rear ends normally in a plane above the plane of the point of the hook and overlying said wings coacting therewith to guard the point of the hook.

1,686,115. HOSE HANDLE. WILLIAM ANDERSON, Spokane, Wash. Filed Aug. 29, 1927. Serial No. 216,154. 4 Claims. (Cl. 294—15.)

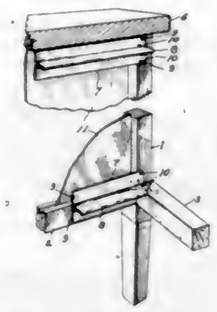


1. A hose handle comprising a blade having spaced angular arms and resilient locking tongues on said arms, the ends of said arms terminating in bands to encircle a hose, and locking latches hinged at the free ends of the bands for locking engagement with the tongues.

1,686,116. FURNITURE CONSTRUCTION. ELMER E. ASH, Los Angeles, Calif. Filed Oct. 30, 1925. Serial No. 65,755. 1 Claim. (Cl. 45—77.)

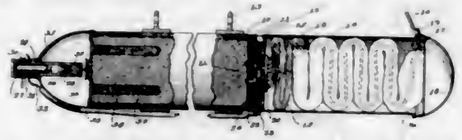
In an article of furniture formed of metal and wood and having a supporting frame formed of wood including wooden posts and wooden front cross rail, a series of superposed drawers between said posts, each drawer having a sheet metal body and a front end formed of wood with the wooden end overlapping the end edges of the body, guides for said drawers comprising members formed of sheet metal and each provided with an outstanding rib which is thin

in cross section to project between adjacent superposed drawers with the upper drawer resting upon said rib and the upper edge of the drawer below engag'ng the underside of said rib, said drawers being spaced apart the thickness of said rib only, and each guide formed with a flange extending upwardly from said rib and a flange extending



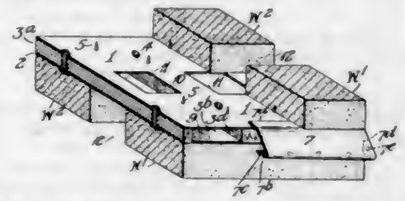
downwardly therefrom, said flanges being secured at their ends to the inner sides of sa'd posts, certain of said guides being secured within the meeting angle between said posts and front rail of said wooden frame with a flange of each guide secured to a post and an end portion of said rib secured to said rail, whereby said metal guides form a brac'ng for said wood frame.

1,686,117. PARACHUTE FLARE. GUY M. BALL, Dayton, Ohio. Filed Mar. 18, 1924. Serial No. 700,102. 14 Claims. (Cl. 102—24.)



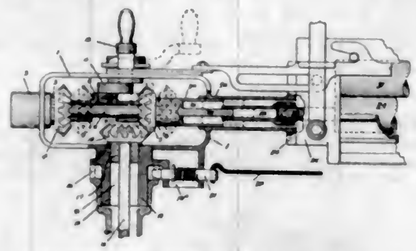
1. A parachute flare for droppage from aircraft comprising a candle, a casing about the same extending beyond the ends thereof, a firing charge and firing means held in normally safe condition in one end of said casing, a parachute packed in the opposite end of said casing connected with said candle, a tube extending from the end of said casing to the parachute end, and an arming wire extending through said tube fastened to the parachute and releasably holding said firing means safe to release the same when the flare is dropped.

1,686,118. VENTILATION ELEMENT FOR WALL CONSTRUCTION AND THE LIKE. DAVID WILLIAM BARRIE, Auburn, Australia. Filed June 24, 1926, Serial No. 118,186, and in Australia Aug. 19, 1925. 7 Claims. (Cl. 72—127.)



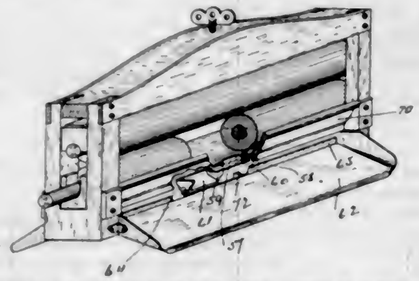
1. A metal damp course and ventilating block for arrangement transversely in an upright wall, comprising spaced metal plates, spacing means disposed between the plates and secured thereto to afford air passages from one face to the other of the wall.

1,686,119. WRINGER. WILLIAM GEORGE BEATTY, Fergus, Ontario, Canada. Filed Nov. 30, 1926. Serial No. 151,805. 12 Claims. (Cl. 68—32.)



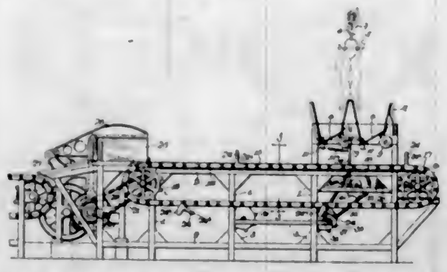
1. A wringer comprising a set of rolls, a cover part including a spring for exerting pressure on the rolls, driving means or rotating the rolls, and a reciprocatory locking bar for securing the cover part and maintaining the spring in its pressure exerting relation with the rolls, said reciprocatory locking bar having operable connection with the driving means and when actuated to release the pressure of the spring on the rolls simultaneously controlling the action of the driving means for the stoppage of the rotation.

1,686,120. WRINGER. WILLIAM GEORGE BEATTY, Fergus, Ontario, Canada. Filed Nov. 30, 1926. Serial No. 151,806. 7 Claims. (Cl. 68—32.)
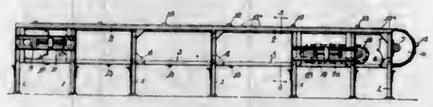


1. A wringer comprising a wringer frame, wringer rolls therein, a drainage orifice at the bottom of the frame, and an adjustable spout having two water chutes set in opposite directions for delivering the discharge from the orifice at either selected side of the wringer, movable lengthwise of the rolls to bring either chute into operative relation with the orifice.

1,686,121. MACHINE FOR TRANSFERRING AND CHOPPING ANIMAL CARCASSES. BERNARD G. BRENNAN, Chicago, Ill. Filed Oct. 26, 1925. Serial No. 64,728. 12 Claims. (Cl. 198—53.)



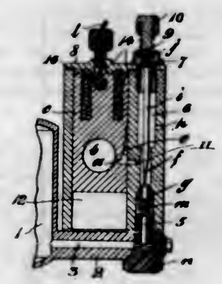
7. In meat-handling apparatus including means for supplying split carcasses, a two-compartment hopper having a pair of trap doors arranged to close the bottoms of the two compartments, latching means arranged to hold said trap doors closed, conveyor means including pusher members arranged to pass successively under said hoppers, and means for releasing both latches simultaneously at the passage of every alternate pusher underneath the hopper.

1,686,122. MEAT-CUTTING TABLE. BERNARD G. BRENNAN, Chicago, Ill. Filed Oct. 26, 1925. Serial No. 64,729. 6 Claims. (Cl. 198—135.)



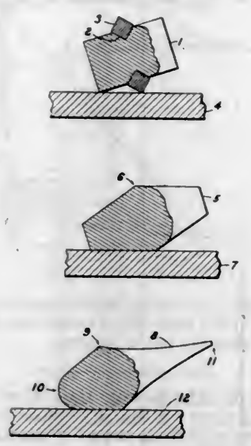
1. A machine for conveying meat sides and the like past work stations for performing particular operations thereon, said machine comprising front and rear rotatable idler members and an articulated endless conveyor table engaging said idler members, said conveyor table being equipped with contact members spaced apart the distance between work stations, and an actuating member arranged to successively engage said contact members and shift said table the distance between such members.

1,686,123. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. CLEMENT BROWN, Birmingham, England. Filed Sept. 27, 1920, Serial No. 413,150, and in Great Britain Sept. 13, 1919. 2 Claims. (Cl. 261—62.)



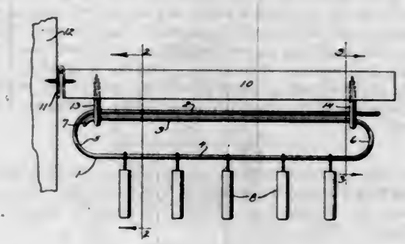
1. A carburetor having a casing provided on opposite walls with openings in alinement with each other, a throttle valve rectilinearly movable within said casing and having an opening adapted to aline with said first named openings in a predetermined position of the valve, a fuel mixture chamber having a passage communicating with the casing and the throttle valve having a passage extending from the opening therein angularly to the direction of the movement of the throttle valve to an edge portion of the valve, said throttle valve passage communicating on the edge portion with recesses of graduated depth adapted to be moved successively into opposition to the passage leading from the fuel mixture chamber and adapted to maintain communication between the fuel mixture chamber and the openning in the throttle valve at any position of said throttle valve.

1,686,124. SURFACE PROJECTILE. ELBERT O. BROWER, Huntington, N. Y. Filed Apr. 21, 1928. Serial No. 271,788. 5 Claims. (Cl. 273—128.)



1. A surface projectile consisting of an elongated body of greatest diameter near its center of gravity; the form of this portion of said body being abruptly tapered longitudinally in both directions from the circumference of said diameter.

1,686,125. CLOTHES-HANGER HOLDER. ANNIE L. CHUBB, Oakland, Calif. Filed Feb. 19, 1927. Serial No. 169,522. 4 Claims. (Cl. 211—123.)

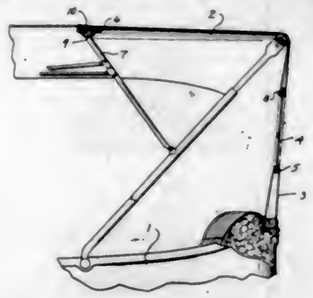


3. A clothes-hanger holder comprising a support, a ring depending from the support, a hook depending from the support and spaced from said ring; a rod comprising a straight end portion, a bent portion extending parallel with said straight end portion, a rebent portion extending between said straight end and said bent portion and in parallelism therewith; said straight portion and rebent portion being spaced so as to allow the straight portion to be threaded thru the eyes of a hanger and thru said ring, the end of said straight portion and the rebent portion to be removably suspended so as to prevent the accidental removal of said rod from said ring and the accidental removal of said hangers, said ring and said hook supporting said hanger rod in substantially a horizontal position.

1,686,126. REAR-CURTAIN-LIGHT SUPPORT. ALBERT A. CRIPPS, Detroit, Mich., assignor, by mesne assignments, to Dodge Brothers Inc., a Corporation of Maryland. Filed Oct. 24, 1923. Serial No. 670,410. 6 Claims. (Cl. 296—145.)

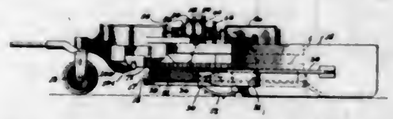
1. In a folding top, a rear curtain, a light in said curtain, and means out of operation when the top is raised and ar-

ranged to be put in operation when the top is lowered for supporting one end of the light in a position in or adjacent



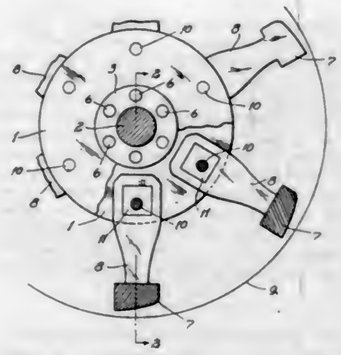
the plane between the points of attachment of the top and bottom edges of the rear curtain to the body and top frame respectively when the top is lowered.

1,686,127. APPARATUS FOR HANDLING LOOSE MATERIAL. CHARLES E. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 30, 1924, Serial No. 758,948. Renewed Mar. 5, 1928. 5 Claims. (Cl. 37—115.)



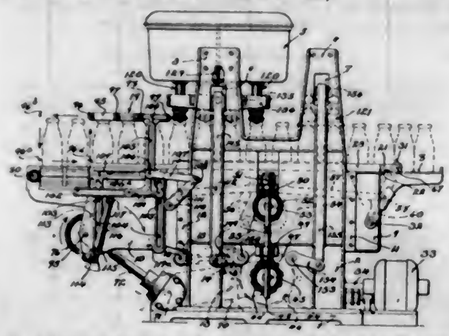
1. In an apparatus of the class described, a movable head frame, a draft operated scraper having lateral bearing engagement with said head frame while being moved thereabout, and auxiliary power means on said head frame for moving said scraper thereabout including a laterally projecting arm extending around the rear end of the scraper to engage the outer side thereof adjacent the forward end thereof.

1,686,128. ADJUSTABLE HAMMER FOR DISINTEGRATORS AND THE LIKE. WILLIAM M. DUNCAN, Alton, Ill. Filed Aug. 1, 1927. Serial No. 209,747. 8 Claims. (Cl. 83—11.)



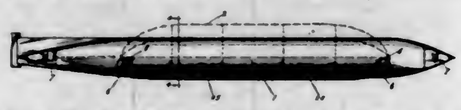
1. In a disintegrator, a rotary carrier, a pivot carried by said carrier, a hammer-support pivotally mounted on said pivot, and a hammer carried by said support, said support being adjustable to vary the position of the hammer relative to the axis of said pivot.

1,686,129. BOTTLE-HANDLING MACHINE. GEORGE A. FULLIPS, Milwaukee, Wis. Filed Dec. 22, 1925. Serial No. 76,994. 10 Claims. (Cl. 198—31.)



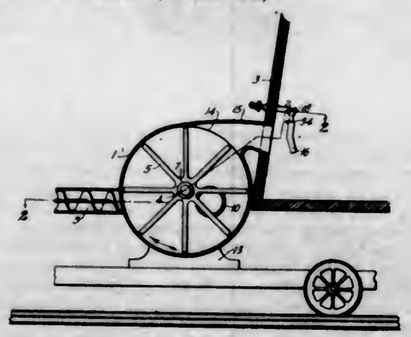
1. A bottle handling machine comprising a table, means for raising and lowering said table to accommodate different sizes of bottles, a main conveyor adapted to engage a plurality of bottles arranged in a plurality of longitudinal rows and to simultaneously advance said bottles longitudinally of said table, a supply conveyor adapted to deliver bottles in rows to said table, and a transfer conveyor adapted to engage an entirely transverse row of bottles and simultaneously move such row into reach of said main conveyor, whereby a simultaneous feed of a plurality of longitudinal rows of bottles along said table, is secured.

1,686,130. AIRCRAFT. CHARLES S. HALL, Los Angeles, Calif. Filed May 16, 1922, Serial No. 561,513. Renewed Feb. 9, 1926. 12 Claims. (Cl. 244—5.)



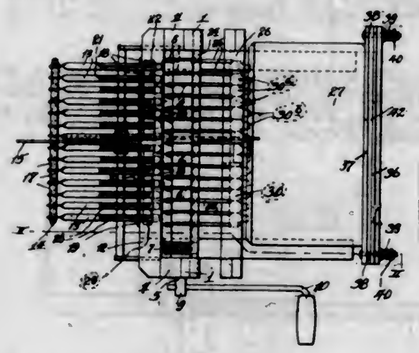
1. In an aircraft, the combination of; a plurality of cylindrical gas containers held together in parallel arrangement with respect to the normal line of flight arranged to provide an unobstructed V-shaped space between them; and a collapsible auxiliary gas container occupying said space substantially as shown.

1,686,131. METHOD AND APPARATUS FOR FEEDING COAL. HENRY H. HAMILTON, Columbus, Ohio. Continuation of application Serial No. 611,598, filed Jan. 9, 1923. This application filed June 16, 1923. Serial No. 645,743. 9 Claims. (Cl. 110—15.)



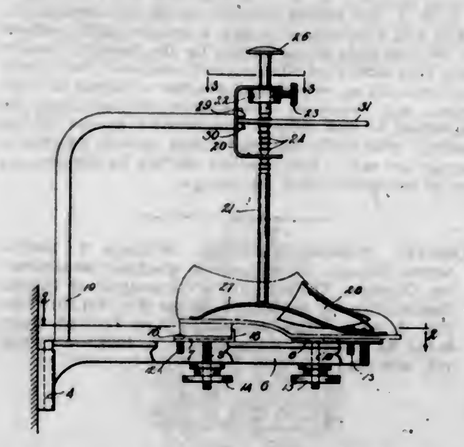
1. The method of feeding coal which consists in elevating and projecting the coal into the furnace with one continuous motion, separating the fine coal from the coarse coal and delivering the coarse coal to predetermined areas of the furnace.

1,686,132. METHOD OF CUTTING AND WRAPPING INDEX TABS. THOMAS E. HEETER, St. Louis, Mo. Filed Apr. 20, 1927. Serial No. 185,336. 4 Claims. (Cl. 93—2.)



1. The method of making index tab strips consisting of cutting a tab strip into sections, of holding the sections in a projected position after cutting them into sections, of inserting the projected portions of the sections into respective apertures of a wrapping cover, and of finally wrapping the sections in said cover.

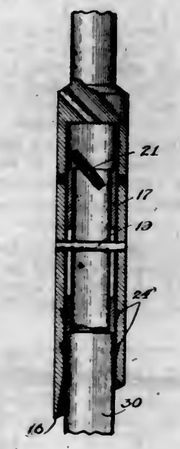
1,686,133. SUPPORT FOR POLISHING SHOES. HENRY HILL, Brockton, Mass. Filed Nov. 22, 1926. Serial No. 149,907. 7 Claims. (Cl. 12—128.)



1. A support for shoes to be polished comprising a bracket having rests for the heel and toe of a shoe, a spring plate adapted to fit within the shoe and bear upon the insole thereof, a plunger movable downwardly into contact with said plate and upwardly out of the shoe, so that the shoe may readily be placed upon and removed from the rests when the plunger is lifted, and means for forcing the plunger downwardly to depress the spring plate and thereby to hold the shoe in fixed position upon said rests.

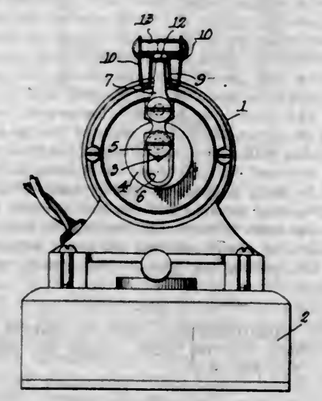
1,686,134. SLIP-RING SOCKET. FRANK J. HINDERLITER, Tulsa, Okla. Filed Oct. 19, 1927. Serial No. 227,194. 12 Claims. (Cl. 294—110.)

1. In combination, in a device for fishing tool parts from a well, a tubular body member, slip means carried by and disposed within said body member, and a slidable sleeve disposed within and concentric with said body member arranged to normally hold the slip means in place and being



movable upon it contacting the tool member to be removed from the well to allow the slip means to grip the tool member as said slip means is uncovered.

1,686,135. MIXER. JOSEPH H. HURDLE, Mebane, N. C. Filed Oct. 19, 1926. Serial No. 142,065. 1 Claim. (Cl. 259—75.)

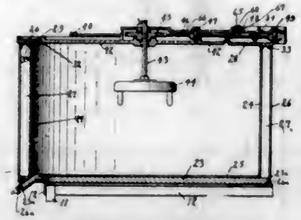


A mixing attachment for an electric motor including a disk for attachment to the shaft of a motor, a wrist pin extending therefrom, a lever having a longitudinal slot in one end portion through which the wrist pin extends, a pivot member extending through the lever beyond the periphery of the disk, a yoke straddling that end of the lever remote from the slot, said yoke constituting means for supporting the middle portion of a capsule, the side portions of the yoke being extended toward the pivot of the lever away from the end thereof, and a spring arm extending from each side portion of the yoke outwardly past and spaced from the yoke, each arm having a recess in its free end portion, and a capsule insertable laterally between the spring arm to position on the yoke and in the recesses.

1,686,136. METHOD OF OBTAINING NITROGENOUS BASES FROM HYDROCARBON MATERIALS. HARRY K. IHRIG, Martinez, Calif., assignor of one-half to Sumner E. Campbell, Associated, Calif., and one-half to Associated Oil Company, San Francisco, Calif., a Corporation of California. Filed Dec. 21, 1926. Serial No. 156,249. 2 Claims. (Cl. 260—1.)

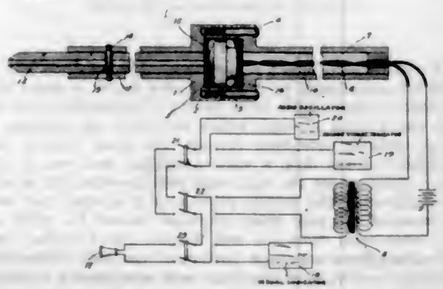
2. The method of obtaining nitrogenous bases which comprises obtaining a crude gasoline from a hydrocarbon material; treating said crude gasoline with a reagent to form compounds with the nitrogenous bases; separating the reaction compound; making said reaction compound alkaline; distilling the alkaline liquor containing said compounds to separate the nitrogenous bases in two types, soluble and insoluble, respectively, in water; separating said types, one from the other, in accordance with their differential solubility.

1,686,137. WASHING MACHINE. ALBERT S. KIBBY, Perry, Iowa, assignor of one-half to National Sales Company, Des Moines, Iowa, a Corporation of Iowa. Filed Feb. 19, 1925. Serial No. 10,310. 1 Claim. (Cl. 220—9.)



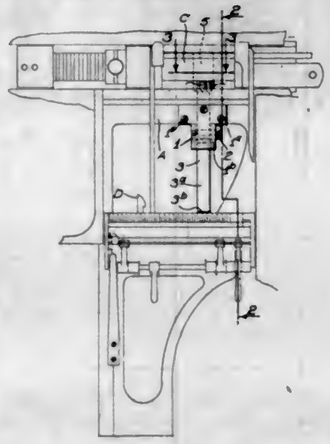
In a washing machine, the combination of a base member, an open top tub mounted on the base member, the periphery of the base member extending beyond the tub, a cover for the tub having two downwardly projecting flanges thereon spaced apart from each other, the inner one being designed to engage the outer edge of the top of the tub, a heat retaining wall member formed of sheet metal and cylindrical in form and of a diameter considerably greater than that of the tub, and having its lower edge resting against the periphery of the base and its top edge engaging the outer one of said downwardly extending flanges on the cover, the upright walls of the tub and of the heat retaining wall and the portions of the base and cover members arranged between these walls being substantially air tight to form a dead air space, and bolts extended through the cover member and the base member and lying wholly in the space between the tub and the heat retaining wall member for firmly securing the cover member to the tub and for holding the heat retaining wall member in position.

1,686,138. VIBROMETER. ORIN E. MARVEL, Dayton, Ohio. Filed Oct. 19, 1922. Serial No. 595,704. 3 Claims. (Cl. 179—1.)



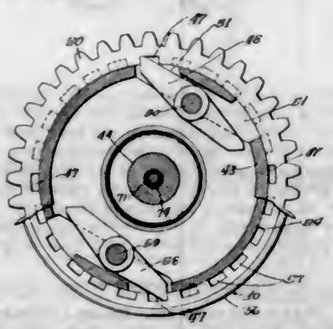
1. In combination, a sound transmitting member comprising a housing, a michrophone transmitter therein, a soft disc like pad between one side of the transmitter and the housing, an element movably supported by said housing and adapted to contact with an external vibrating body to transmit the vibrations to said transmitter, means limiting the movement of said element relative to the housing, and a soft pad of material between said element and said microphone transmitter.

1,686,139. ELEVATOR-CONTROL ATTACHMENT FOR TYPESETTING MACHINES. DENIS P. MCLAUGHLIN, San Diego, Calif. Filed Oct. 13, 1926. Serial No. 141,256. 3 Claims. (Cl. 199—26.)



1. In a type setting machine having an assembly elevator and a delivery slide bar, a support rigidly secured to the base plate of the support for the assembly elevator of a type setting machine, a gravity actuated lever pivotally mounted on said support adapted to engage said elevator, stop means on said support for regulating the movement of said lever, a cam member secured on the delivery slide bar of the type setting machine adapted to engage one end of said lever for shifting its opposite end out of engagement with the elevator.

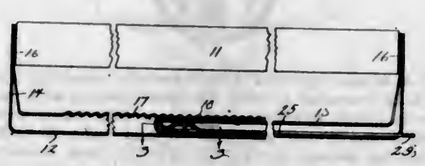
1,686,140. MINING MACHINE. WILLIAM T. MCCULLOUGH, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Continuation of application Serial No. 434,591, filed Jan. 3, 1921. This application filed Dec. 29, 1922, Serial No. 609,617. Renewed Mar. 5, 1928. 3 Claims. (Cl. 262—30.)



1. In a mining machine the combination of two winding drums each associated with a flexible cable, driving means

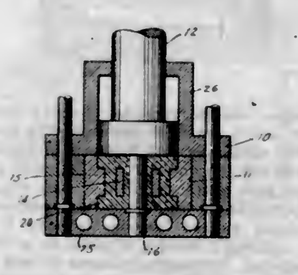
operable to rotate each of said drums in a direction to wind its cable thereon, retarding means operable to automatically engage each of said drums when it is rotated to unwind its cable thereon, and means associated with each drum for simultaneously disengaging both driving means, and retarding means whereby the cable may be unwound freely of said driving and retarding means.

1,686,141. CURTAIN ROD. CLARENCE E. BLAKELY, Ute, Iowa, assignor of one-half to Wilbur A. Blakely, Grand Center, Iowa. Filed June 27, 1927. Serial No. 201,751. 5 Claims. (Cl. 156—23.)



4. In a device of the class described, a pair of telescoping curtain rod members provided at their outer ends with brackets having clamping jaws, adapted to engage the ends of a casing member, the end of one telescoping member being adapted to engage and lock against the wall of the other telescoping member in any of a number of positions, so closely spaced as to enable the creation of tension between the brackets such as to result in pressure of the clamping jaws against the ends of said casing member and friction elements carried by the clamping jaws and adapted to engage the ends of said casing member, the brackets being semi-resilient so as to transform said tension into permanent pressure of the clamping jaws, the locking resulting from bending strain imposed upon the telescoping member by said tension and pressure.

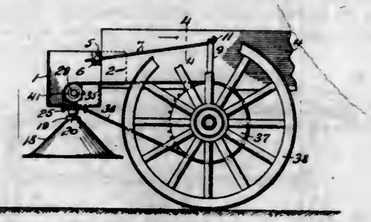
1,686,142. COMPOSITE MOLDED ARTICLE. LE BONSIEUR, Elyria, Ohio. Filed Apr. 29, 1927. Serial No. 187,501. 9 Claims. (Cl. 18—59.)



1. As an article of manufacture, a wheel comprising a frame of phenolic condensation product composition, or the like, and a body of rubber comprising a tire portion molded into the frame and held by portions thereof continually compressed by the confining frame portions.

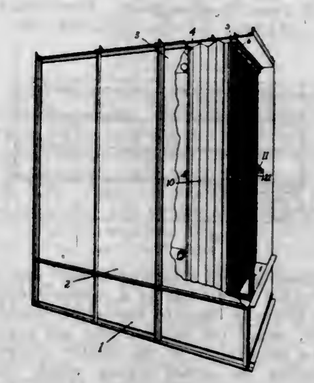
1,686,143. LIME SPREADER. CLAUDE D. BOUSMAN, Kansas City, Kans. Filed Jan. 18, 1926. Serial No. 82,001. 1 Claim. (Cl. 275—2.)

In a lime spreader of the kind described, the combination with the bed and two opposite bolster standards of a wagon, said standards having each a hole therethrough, of a hopper having a front mouth portion extending a substantial distance into the rear open end and resting on the bottom and disposed between the sides of said bed, said hopper at its opposite ends having two plates each having a hole alining with the hole of the adjacent standard, two rods respectively extending through the holes of said standards and through the holes in said plates and having



threaded rear ends and each having a hook at its forward end engaging the adjacent standard, and two nuts adjustably mounted on the threaded portions respectively of said rods and bearing respectively against the rear sides of said plates.

1,686,144. AIR-WASHER STRUCTURE. ALVIN H. COLBERT, Chicago, Ill. Filed Jan. 28, 1926. Serial No. 84,340. 5 Claims. (Cl. 183—22.)

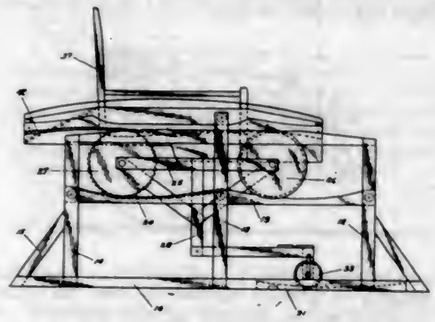


1. In an air washer, a casing, a plate structure comprising vertically disposed eliminator plates, a base with cross bars having longitudinal top grooves thereon, spacers formed with engaging lugs to engage said grooved bars, notched top bars with U-shaped bar means for supporting the same in the top of said casing, an intermediate angle cross bar secured by brackets to the walls of said casing and having its vertical member disposed in proximity to the edge of the eliminator plates and its horizontal member projecting outwardly therefrom, a connecting bracket for one of said plates comprising a sheet metal strap folded upon itself forming an eye at its outer end, a vertical clamp bolt disposed in said eye to clamp and engage the horizontal member of said angle bar, and spacers of hook form to engage over the vertical member of said angle bar and extend between the eliminator plates beyond the edge.

1,686,145. PORCH AND LAWN SWING. LESTER GUY COOK, Lincoln, Nebr. Filed Feb. 1, 1927. Serial No. 165,137. 1 Claim. (Cl. 155—57.)
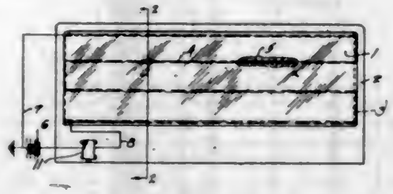
A porch swing including a frame having a pair of arcuate racks at the sides thereof and having a pair of arcuate tracks forward of said arcuate racks and having also a pair of arcuate tracks below and forward of said first named tracks, a seat member having a rear shaft provided with a pair of pinions secured thereto for traveling on said arcuate racks, a pair of wheels supporting the forward

portion of said seat member and adapted to travel in said first named tracks, a foot rest platform pivotally secured at the rear extremity thereof to said seat member, and a



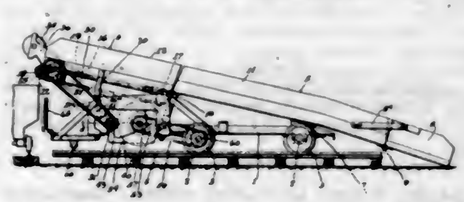
pair of wheels for traveling in said second named arcuate tracks and supporting the forward portion of said foot rest platform.

1,686,146. HEATER FOR WINDSHIELDS. ROBERT T. CUMMINGS, Spokane, Wash., assignor of one-half to Everett H. Price, Spokane, Wash. Filed Jan. 31, 1927. Serial No. 164,939. 1 Claim. (Cl. 219—19.)



The combination with a heating element and a heating gravity actuated circuit having a normally open circuit breaker, of manually operated means for closing the circuit breaker, means for automatically and gradually increasing the temperature of the heating element, means for determining the period during which the circuit breaker is closed, and automatic means for opening the circuit at the end of this period.

1,686,147. SCRAPER LOADING DEVICE. CHARLES E. DAVIS, Davenport, Fla., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 29, 1924, Serial No. 695,895. Renewed June 29, 1927. 13 Claims. (Cl. 214—93.)



1. A combined loading chute and transportation device comprising a wheeled truck having a main frame and an inclined chute on said frame comprising upper and lower portions normally in alignment with each other, the lower portion being mounted for rocking movement intermediate its ends on said main frame and adjustable into substantially horizontal position with its upper end in supporting engagement with said frame.

1,686,148. SCRAPER. CHARLES E. DAVIS, Davenport, Fla., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 26, 1923, Serial No. 627,548. Renewed Sept. 7, 1926. 7 Claims. (Cl. 37—115.)

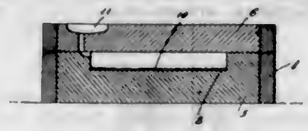


2. A scraper provided with forwardly extending walls pivotally connected at their rear ends whereby said walls may be moved laterally respective to each other, means limiting the inward movement of said walls, a flexible connecting member having its terminals each connected with one of said walls, and a drag line connected to the central portion of said flexible connecting member.

1,686,149. TREATMENT OF FABRICS. GEORGE HOLLAND ELLIS, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Dec. 3, 1926, Serial No. 152,515, and in Great Britain July 27, 1926. 17 Claims. (Cl. 8—20.)

1. Process for the treatment of fabrics to render them less liable to develop faults, comprising impregnating the fabrics with strong aqueous solutions of dispersing agents.

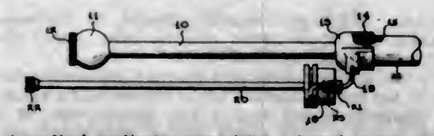
1,686,150. ABRASIVE SURFACE AND METHOD OF MAKING SAME. COLIN G. FINK and ARTHUR H. KOPP, New York, N. Y., assignors to American Abrasive Metals Company, a Corporation of New York. Filed Mar. 14, 1927. Serial No. 175,353. 13 Claims. (Cl. 22—202.)



1. An article adapted to resist abrasion comprising a base of cast metal, grains of wear-resisting material embedded in the surface of said base, and a localized metal alloy immediately surrounding each of said grains, the remainder of said base being free of said alloy.

7. The method of producing an article adapted to resist abrasion, which method includes forming a mold for the article, applying a coating of metal to grains of wear resisting material, distributing a layer of said previously coated grains on a surface of said mold adapted to shape a surface of said article, and pouring molten metal into said mold.

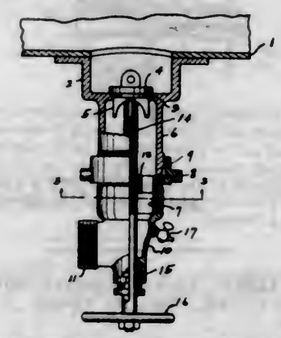
1,686,151. MEDICAL APPLICATOR. CLARENCE ELMER FREY, Lincoln, Nebr. Filed Aug. 17, 1926. Serial No. 129,753. 1 Claim. (Cl. 128—234.)



A medical applicator comprising a barrel, a cap swingingly connected with the barrel at the end remote from

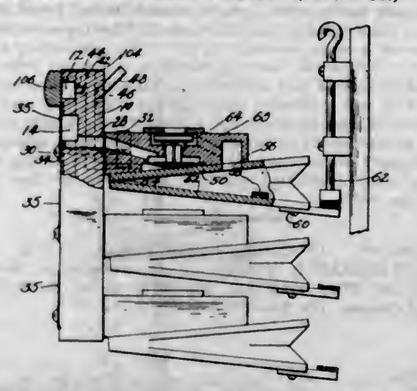
the discharge mouth, and a plunger snugly fitting the bore of the barrel and provided with a staff extending through and guided by said cap, the cap and plunger staff being swingable into a position in parallelism with the barrel or into a position where the staff is axially aligned with the bore of the barrel, the staff, when the plunger is engaged in the bore of the barrel, retaining the cap in closed position.

1,686,152. VALVE LIFTER. JOHN C. GARROTT, Houston, Tex. Filed Dec. 20, 1926. Serial No. 155,863. 4 Claims. (Cl. 251—157.)



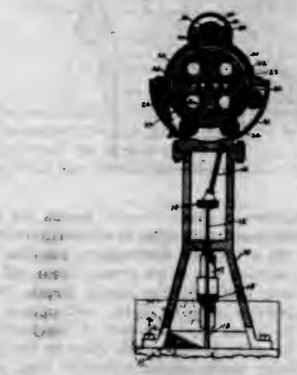
1. A device of the character described including a valve casing having a reduced tubular depending neck, a web separating said casing and neck having an opening therein and a valve seat surrounding said opening, an upwardly opening valve in the casing controlling said opening, a hose connection depending from and having a swiveling connection with said neck, a valve lifting rod extending through said connection and neck and aligned underneath the valve and a spider in said connection having a tapped bearing through which said rod is threaded.

1,686,153. PLAYER PIANO. CHRISTIAN GULBRANSEN, Chicago, Ill., assignor to Gulbransen Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 16, 1924. Serial No. 743,866. 8 Claims. (Cl. 84—50.)



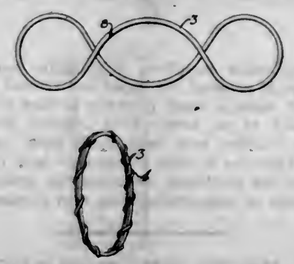
1. In a pneumatic stack, in combination, a channel board having three large grooves and one small groove formed in one face thereof, a direct connection to each large groove for delivering suction thereto, three tiers of unit pneumatics secured against the opposite face of said board and positioned to register with said large grooves, fastening screws for each unit pneumatic extending through solid portions of said board to the opposite side for convenient access, transverse equalizing passages extending in from one edge of said board to inter-connect all four grooves, transverse individual control passages extending in from the same edge past said grooves near the opposite face of said board to register with said unit pneumatics, bleed passages connecting each control passage with the small groove, tracker bar passages extending in at an angle from the ungrooved face of the board to said control passages, sealing strips covering all said grooves, and a sealing strip covering the ends of said equalizing and individual control passages.

1,686,154. PUMP HEAD. LYSLE L. HAZEN, Joplin, Mo. Filed Apr. 28, 1925. Serial No. 26,436. 10 Claims. (Cl. 74—14.)



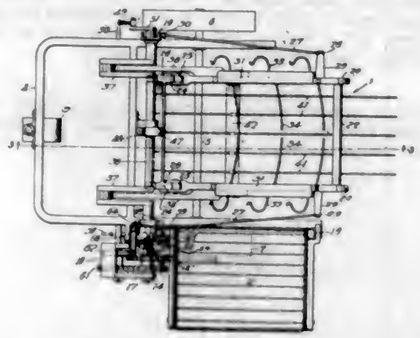
10. A pump head comprising, in combination, a pair of pitmen connected with the sucker rods of the pump; a crank disk with which the two pitmen are connected at diametrically opposite points; a power driven shaft; a pinion on said shaft; said crank disk having peripheral gear teeth with which the pinion meshes, thereby to drive the crank disk and reciprocate the sucker rods; a lubricant trough surrounding the lower portion of the crank disk, whose gear teeth thus pass through a lubricant bath; a series of rollers within the trough supported on axes which are transverse of the trough and parallel to the axis of rotation of the crank disk; the crank disk being supported wholly by the rollers fitting into a groove provided on rollers with which it has peripheral contact; the periphery of the crank disk, so that any movement of the crank disk parallel to its axis of rotation is prevented; the rollers having flat sides and V-shaped peripheries and fitting into grooves which are shaped complementarily.

1,686,155. METHOD OF MAKING TIRE-BEAD REENFORCING ELEMENTS. ARTHUR C. HOPKINS, Niles, Mich., assignor to National Standard Company, Niles, Mich., a Corporation of Michigan. Filed May 25, 1927. Serial No. 194,142. 8 Claims. (Cl. 245—1.5.)



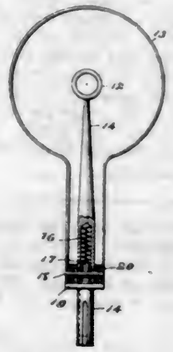
1. The method of making a tire-bead reenforcing element having a plurality of convolutions of a tension member, consisting of first forming such tension member in a single loop of requisite length, joining the ends, and then forming said single loop into a plurality of convolutions.

1,686,156. GRAIN SHOCKER. FRED JACKSON, Clay City, Ind. Filed Sept. 11, 1924. Serial No. 737,143. 12 Claims. (Cl. 56—422.)



1. In a grain shocker, a shock former, means for supporting the same for movement from a normal horizontal receiving position to a vertical discharging position, actuating means for moving the shock former from the one to the other of said positions, the shock former being provided with oppositely opening gates, and means for retaining one of the gates closed in one of the positions and the other of the gates closed in the other of the positions, the gates being yieldingly impelled to open position and alternately locked in closed position by an element of the actuating means.

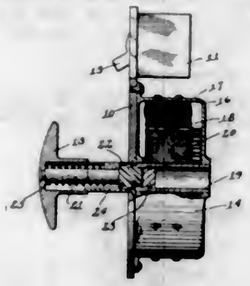
1,686,157. RING SIGHT FOR MACHINE GUNS. ROBERT KAUCH and CHARLES L. PAULUS, Dayton, Ohio. Filed May 8, 1924. Serial No. 711,881. 2 Claims. (Cl. 33—53.)



2. A gun sight including a normally vertical shaft having a sight piece at the upper end thereof, a plurality of different sizes of rings pivotally carried by said shaft and adapted to be swung into position selectively to concentric relation with said sight piece, an abutment against which the pivoted portions of said rings engage and means for yieldingly retaining the pivoted portions of said rings in engagement with said abutment.

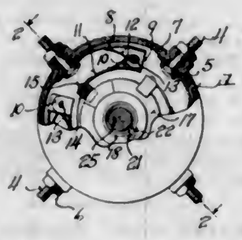
1,686,158. ELECTRIC-IMPULSE GENERATOR. ROBERT KAUCH and CHARLES L. PAULUS, Dayton, Ohio. Filed Jan. 30, 1925. Serial No. 5,857. 6 Claims. (Cl. 171—76.)

2. An impulse generator comprising a rotatable armature, a driving element, a driven element fixed to the armature, said driving element being arranged to operate said driven element for only a predetermined amount of travel



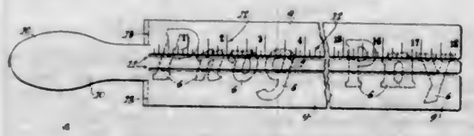
of the driving element, and spring means for rapidly recoiling said armature at the limit of the movement thereof to generate a current.

1,686,159. TIMER. ADAM W. KAUFMAN, Milwaukee, Wis. Filed May 13, 1926. Serial No. 108,821. 1 Claim. (Cl. 200—26.)



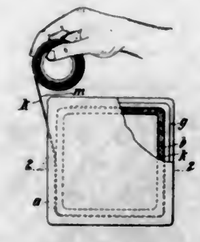
A timer comprising a rotary shaft having a key therein, a roller carried by said shaft, and having a keyway therethrough and adapted to slide longitudinally of said shaft, said roller being of disc-like shape and having a segmental contact, a casing surrounding said roller, and having a plurality of terminal receiving members, stationary arms carried by each of said members, pivotally mounted arms carried by said stationary arms, springs urging said pivotally mounted arms inwardly, and a plurality of contacts carried by said pivotally mounted arms and adapted to engage the periphery of the roller, each of said contacts having front and rear ears adapted to overhang the front and rear faces of the roller.

1,686,160. CHARACTER-MOUNTING STICK FOR CHANGEABLE SIGNS. PAUL KLIMOWICZ, Stevens Point, Wis. Filed Apr. 28, 1927. Serial No. 187,342. 4 Claims. (Cl. 33—174.)



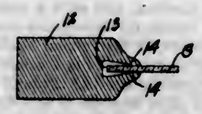
1. A character aligning spacing and mounting stick comprising an elongated flat body having a handle at one end and spaced parallel grooves extending through and along the body from adjacent the handle and through the opposite end, there being indicia on said stick body for the purpose specified.

1,686,161. WALL. PAUL LIESE, Berlin-Tempelhof, Germany. Filed Dec. 17, 1927, Serial No. 240,667, and in Germany May 2, 1927. 2 Claims. (Cl. 72—41.)



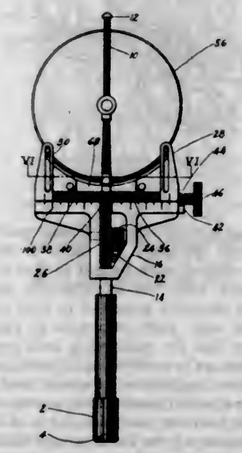
1. The herein described wall or ceiling composed of pairs of superposed sectional glass tiles having the gap formed between the abutting faces thereof closed at its outside by a strip of a suitable material glued to the side faces of the sectional tiles, and a mass of mortar filling out the spaces between adjacent pairs of sectional tiles.

1,686,162. WINDOW. FRANCIS M. LINDERSMITH, Spokane, Wash. Filed Aug. 6, 1927. Serial No. 211,196. 1 Claim. (Cl. 20—56.2.)



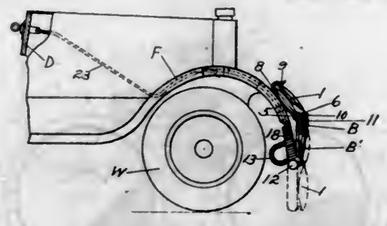
In a sash frame the combination with an integral frame member and its glass panel, said member having an undercut groove for the panel with the opening of said groove of less width than the thickness of the glass panel whereby resilient beads are formed at the opposite sides of the panel, and a plastic filler encased within said groove at the edge of the panel.

1,686,163. ADJUSTABLE RING SIGHT. WALTER G. MCNEILL and ROBERT KAUCH, Dayton, Ohio. Filed Aug. 4, 1922. Serial No. 579,631. 9 Claims. (Cl. 33—53.)



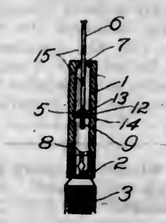
2. In a sighting device, in combination, a support, a thin flexible band carried by said support in the form of a ring, and means for varying the diameter of said ring to compensate for varying speeds of an object sighted.

1,686,164. BUFFER FOR AUTOMOBILES. YATARO MIYAOKA, Spokane, Wis. Filed Jan. 24, 1928. Serial No. 249,068. 5 Claims. (Cl. 293—36.)



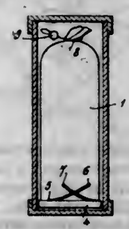
1. The combination with a bumper, of a pneumatic bag loosely attached thereto and adapted to be folded, means for supporting the folded pneumatic bag, and means for plunging said bag to unfolded and operative position.

1,686,165. TIRE GAUGE. ROBERT V. MORSE, Ithaca, N. Y. Filed Apr. 12, 1926. Serial No. 101,479. 8 Claims. (Cl. 73—111.)



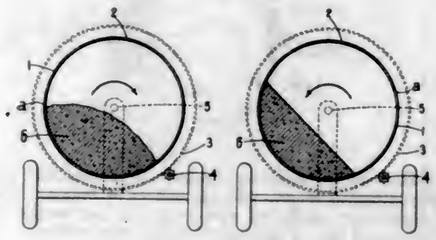
1. In a pressure gauge, the combination of a movable element and a fixed element cooperating to form a substantially air tight expansible chamber, one of said elements adapted to be attached to a self closing valve to render the chamber air tight, a metering element between the movable element and the valve arranged to insure that a definite volume of air may be trapped between the movable element and the valve when the valve becomes closed, and means for indicating the amount of travel of said movable element as a result of the expansion of the trapped air until the air pressures on both sides of the movable element are substantially equalized.

1,686,166. GREASE PACKAGE. JACQUES MULLER, La Garenne Colombes, France. Filed Feb. 7, 1927, Serial No. 166,478, and in France Feb. 8, 1926. 1 Claim. (Cl. 206—56.)



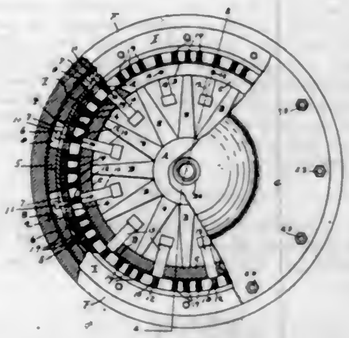
A commercial package embodying a pliant sheath containing a soft and greasy substance, a substantially rigid base upon which the same rests, and a breaking device interposed between said substance and base.

1,686,167. VEHICLE FOR RECEIVING AND TRANSPORTING REFUSE AND THE LIKE. HEINRICH NEUY, Hamburg, Germany. Filed Nov. 6, 1926, Serial No. 146,729, and in Germany Nov. 10, 1925. 7 Claims. (Cl. 214—152.)



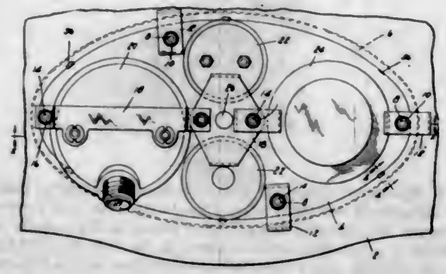
1. A method of loading materials into a vehicle of the type having a rotatably-mounted container and a filling opening therein, which comprises the repeated steps of loading the material into the container of the vehicle through the opening thereof until it reaches the edge of the opening; and rotating said container to flatten out and rearrange said material in the container for a further supply of material.

1,686,168. SPRING WHEEL. ANDREW B. NIHLBOS, Murray City, Utah. Filed Mar. 24, 1927. Serial No. 177,897. 5 Claims. (Cl. 152—38.)



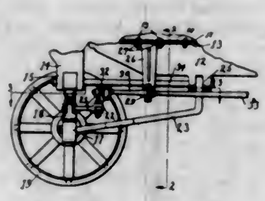
1. In a spring-wheel the combination with a hub having spokes projecting therefrom and a felly connecting said spokes together, said felly having a band on its outer face, of cylinders secured within said felly, a rim spaced from said felly, an inner rim in sections between said felly and said rim, said inner rim being provided with means for retaining a plurality of coil springs, one end of said springs resting against said rim and the other end of said springs resting upon said band, all substantially as set forth.

1,686,169. INSTRUMENT-BOARD ASSEMBLY. FRANK N. NUTT, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed Feb. 19, 1926. Serial No. 89,366. 4 Claims. (Cl. 180—90.)



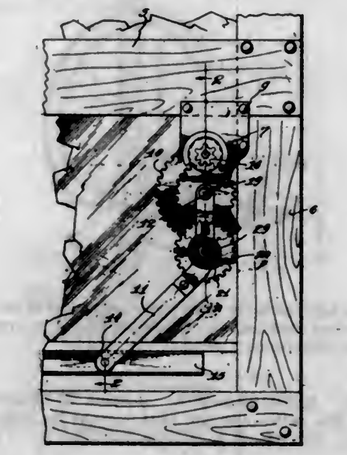
1. The combination of an instrument board having an opening therein, a plate provided with a flange portion adapted to bear against the outer face of the instrument board around said opening, and with a portion adapted to fit in said opening, means for detachably securing the plate in position on the board, an instrument board fitting, means for securing said fitting on said plate comprising fastening devices having portions projecting through said plate, and an ornamental face plate secured to said first named plate and adapted to conceal the fastening devices, said face plate being insertable from the front of the instrument board.

1,686,170. DETACHABLE STEERING MECHANISM FOR TRACTORS. JOHN LOUIS OPITZ, Clarinda, Iowa. Filed Dec. 23, 1924. Serial No. 757,663. 3 Claims. (Cl. 280—95.)



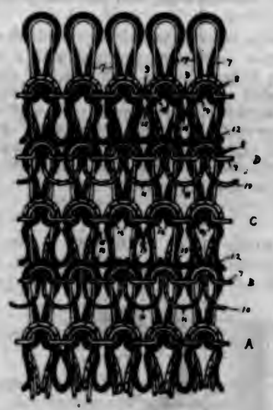
1. In combination, a tractor frame having outwardly extending flanges designed to carry a detachable pan which is also provided with flanges to rest adjacent to the first said flanges, bolts for securing the said flanges together, an axle pivotally mounted to said frame, spindles pivoted to said axle, each of which is provided with a steering arm, a link for connecting said arms, means for imparting movement to said link comprising a substantially U-shaped bracket designed to surround said pan, the end of each member of said bracket being provided with a flange designed to rest beneath the flanges of said detachable pan and secured thereto by the bolts in said flanges, the lower portion of said U-shaped bracket being provided with a downwardly extending pivot pin, a lever pivotally mounted on said pin, a link for connecting one end of said lever to said steering link, and means for connecting the opposite lever with the steering mechanism of a tractor.

1,686,171. WINDOW REGULATOR. JOHN H. PARSONS, Pontiac, Mich. Filed June 29, 1925. Serial No. 40,361. 7 Claims.. (Cl. 268—126.)



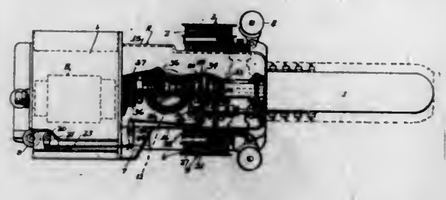
1. In a device of the character described, a window, and means for raising or lowering the window including a fixed curved rack, a lever fulcrumed upon the rack and engaging the window, a pinion journaled on the lever and meshing with the rack, and means for rotating the pinion.

1,686,172. KNITTED FABRIC. FREDERICK L. PORTE, Utica, N. Y. Filed Mar. 12, 1925. Serial No. 15,031. 5 Claims. (Cl. 66—194.)



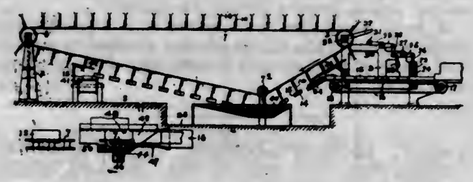
1. In a knitted fabric, a basic web having stitches arranged in longitudinally extending rows and laterally extending courses and supplemental yarns knitted into the stitches of the basic courses, the connecting threads of certain of said supplemental yarns extending outwardly in fleecing loops from the body of the fabric at certain courses on one side of the fabric and the connecting threads of the other supplemental yarns extending outwardly in fleecing loops from the body of the fabric at certain courses on the other side of the fabric.

1,686,173. MINING MACHINE. CHARLES A. PRATT, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 14, 1925. Serial No. 56,151. 7 Claims. (Cl. 262—30.)



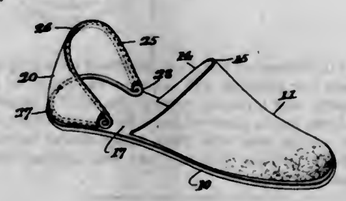
1. In a mining machine, a frame having a cutter bar projecting therefrom provided with a cutter chain, a portion of said frame and said cutter bar forming a passage into which the cuttings are brought rearwardly by said cutter chain, and discharge means for the cuttings including a horizontally oscillating sweep.

1,686,174. APPARATUS FOR COATING CANDIES, CAKES, ETC. GEORGE W. RAUSCHENBERGER, Butler, Pa. Filed Feb. 23, 1922. Serial No. 538,672. 2 Claims. (Cl. 91—4.)



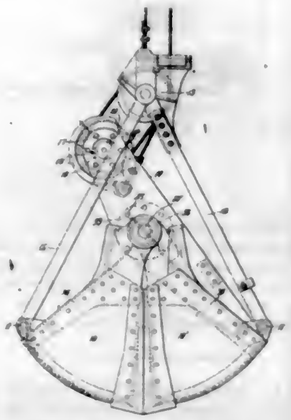
1. In apparatus for coating confections, cakes, etc., the combination of an endless belt, a plurality of arms carried by said belt, inwardly extending prongs on said arms, means for separating said arms, means for moving said arms inwardly to engage the articles to be coated by said prongs, and a receptacle for containing the coating material in the path of said articles.

1,686,175. FOOTWEAR RETAINER. DAVID Y. READ, Washington, D. C. Filed Aug. 11, 1924. Serial No. 731,521. 7 Claims. (Cl. 36—58.5.)



1. An article of footwear in which the rear of the upper is downwardly yieldable characterized by the provision of means secured to the sole on both sides and located entirely outside of the central area of said rear portion for actively restoring the upper to original position when relieved of downward pressure.

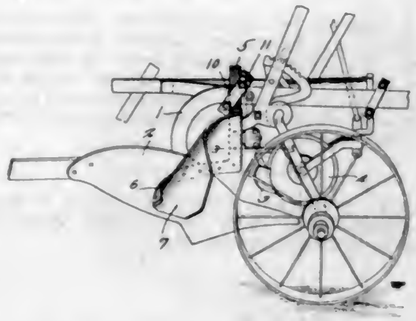
1,686,176. LEVER-ARM BUCKET. PHILIP THEODORE ROBIN, Aspinwall, and WILLIAM MAYO VENABLE, Pittsburgh, Pa., assignors to Blaw-Knox Company, a Corporation of New Jersey. Filed June 6, 1927. Serial No. 196,644. 11 Claims. (Cl. 37—184.)



1. In a bucket, the combination of a lever arm hub, a pair of independently formed plates secured thereto in spaced relation and constituting the arm proper, and a sheave housing secured between the plates.

5. In a bucket, the combination of a pair of scoop members, a hinge pin, a lever arm hub mounted on the pin, and a pair of independently formed scoop hinge members mounted on the hub.

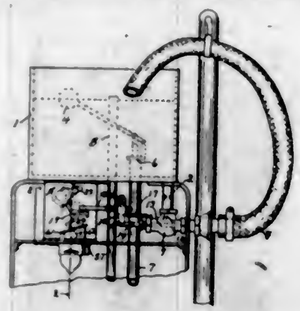
1,686,177. PLOW ATTACHMENT. FRANK E. ROSEKELLY, Huron, Ohio. Filed Sept. 13, 1927. Serial No. 219,270. 2 Claims. (Cl. 97—193.)



1. An attachment of the class described including a standard, means for securing the same to the beam of a plow, a rearwardly and laterally curved arm at the lower end of the standard, and a plate secured to the standard and the front face of the arm, said plate being curved from side to side with its concave face in front and inclined upwardly and forwardly.

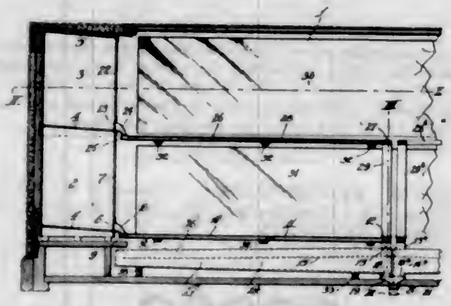
1,686,178. VENDING MACHINE. JAMES A. SATHER, Oakland, Calif. Filed Aug. 17, 1925. Serial No. 50,671. 8 Claims. (Cl. 194—82.)

1. In a liquid vending device of the character described, a control valve, an operating mechanism adapted to become active for a predetermined period of time upon the insertion of a coin, an operative connection between the mechanism and the valve for operating the latter, the latter connection being adjustable to allow the valve period to be regulated independently of that of the mechanism, said operating mechanism comprising a revolving element



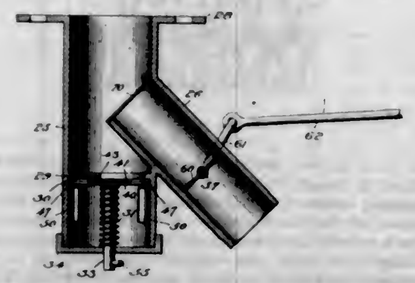
actuating said operative connection, spring means to revolve the revolving element, and releasable means to arrest the motion of said element.

1,686,179. REFRIGERATOR. JOSEPH A. SCHNUR, St. Louis, Mo. Filed Aug. 20, 1924. Serial No. 733,072. 4 Claims. (Cl. 62—37.)



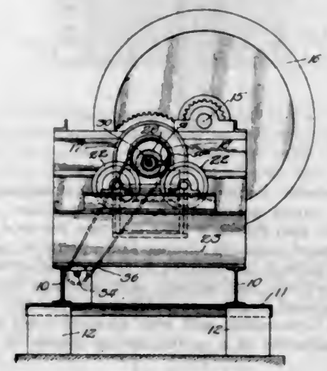
1. In a refrigerator, a pair of ice chambers arranged one above the other, each being provided with a draining outlet, a pair of hollow shelves each being in communication at one end with an outlet of a respective chamber, a pair of pipes depended from the opposite end of each of said shelves, one of said pair of pipes telescoping into said other pair of pipes, and a member having a return passageway formed therein in communication with each pipe of said last mentioned pair of pipes.

1,686,180. FUEL-FEED SYSTEM. CHARLES EDWARD SHIFFER, Wilmington, Del. Filed Oct. 14, 1921. Serial No. 507,635. 5 Claims. (Cl. 123—142.)



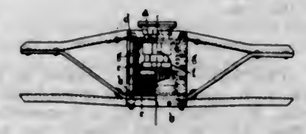
1. In combination, a fuel feed system for automobiles, a combustible mixture outlet, a primary mixture passage leading thereto, a check valve between the passage and outlet, a throttle valve in said passage, an auxiliary air inlet, a spring-pressed valve normallly closing said inlet but free to open said inlet upon back-fire, and means connecting said valves so that the air valve is opened whenever the throttle valve is opened and is closed by its spring upon closing of the throttle valve.

1,686,181. CYLINDER-GRINDING MACHINE. GEORGE N. SIMPSON, Chicago, Ill. Filed Mar. 30, 1927. Serial No. 179 527. 5 Claims. (Cl. 51—50.)



1. In a cylinder grinding machine of the character described; means for supporting and rotating a cylinder; a grinding wheel shaft adapted to enter the cylinder; a housing for the grinding wheel shaft, said shaft projecting beyond the end of said housing and supported in a bearing carried by the end of the housing; a grinding wheel on the projecting forward end of the shaft; means for rotating the grinding wheel shaft; means for reciprocating the grinding wheel longitudinally in the cylinder; and means for holding the grinding wheel away from the bottom of the cylinder, said means comprising a horizontally arranged guard arm having one end attached to the housing and the other end adapted to bear against the inside of the wall of the cylinder to prevent the grinding wheel from resting on the bottom of the cylinder.

1,686,182. CONSTRUCTION OF BOGIE TRUCKS FOR RAILWAY AND LIKE VEHICLES. GEORGE HARRISON SHEFFIELD and JAMES DENIS TWINBERROW, London, England, assignors to G. H. Sheffield & Company, Engineers, Limited, London, England. Original application filed June 22, 1926, Serial No. 117,823, and in Great Britain June 30, 1925. Divided and this application filed July 12, 1927. Serial No. 205,228. 4 Claims. (Cl. 105—197.)



1. A bogie truck of the kind referred to comprising in combination two side frames and a cross transom connecting said frames, said transom being composed of an upper member consisting of a beam with its major axis horizontal and two lower angle members spaced apart from one another and apart also from the upper beam member.

1,686,183. CURRENT-RECTIFYING DEVICE. WALTER O. SNELLING, Allentown, Pa. Filed Feb. 14, 1923. Serial No. 619,033. 4 Claims. (Cl. 250—31.)

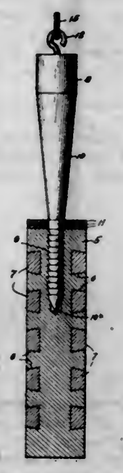
1. The process of preparing current rectifying materials which comprises heating a compound of a metal and an element of the sulfur group in the presence of the vapor of an element of the sulfur group.

1,686,184. COMBINED BAILER AND JAR. GEORGE A. SPANG, Butler, Pa. Filed Jan. 12, 1923. Serial No. 612,250. 1 Claim. (Cl. 166—19.)



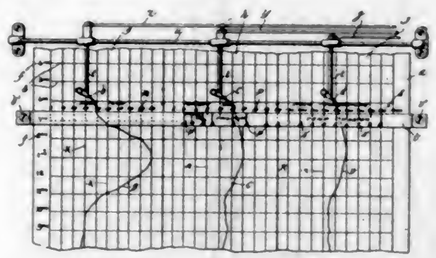
The combination with a bailer having a bail, of a link adapted to co-operate with said bail so as to form a jar, a collar secured to said bail, a rod on said link extending into said bailer through said collar, and means on said rod for aligning it with said collar so as to guide the movement of said link.

1,686,185. WELL PLUG. FERDINAND J. SPANG, Butler, Pa., assignor to Spang and Company, Butler, Pa., a Corporation of Pennsylvania. Filed Jan. 9, 1926. Serial No. 80,232. 2 Claims. (Cl. 166—13.)



1. The combination in a well plug of an elongated body portion of malleable metal provided with a plurality of grooves in the outer face thereof, inserts of readily flowing rubber mounted in said grooves and a tapered mandrel for expanding said body portion and said inserts.

1,686,186. FURNACE EFFICIENCY METER. JACOB M. SPITZGLASS, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a Corporation of Illinois. Original application filed May 1, 1926, Serial No. 105,957. Divided and this application filed Jan. 12, 1927. Serial No. 160,721. 6 Claims. (Cl. 73—151.)



1. A furnace efficiency meter comprising an indicator movable in accordance with the temperature of the stack gases and an indicator movable in accordance with the percentage of carbon dioxide in the stack gases, said indicators being so positioned that the temperature indicator moves away from the CO_2 indicator as the temperatures increase and toward it as the temperatures decrease and the CO_2 indicator moves toward the temperature indicator as the percentage of CO_2 increases and moves away as it decreases.

1,686,187. WALL-BOARD RETAINER. JOSEPH STRAND, Los Angeles, Calif., assignor to Klinch Lath Corporation, Los Angeles, Calif., a Corporation of California. Filed Dec. 6, 1926. Serial No. 152,878. 6 Claims. (Cl. 72—115.)



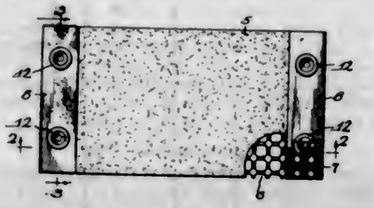
1. A wall board retainer consisting of: a primary member having a primary plate and a primary flange formed at one edge of said primary plate; a secondary member having a secondary plate and a secondary flange extending from one edge of said secondary plate; means for fastening said primary and said secondary plates together, said primary and secondary members defining a substantial Z-shape; primary tongues formed in said primary plate in connection with a free edge of said primary plate; and secondary tongues formed in said secondary plate in connection with a free edge of said secondary plate.

1,686,188. PERFUME CONTAINER AND DISPENSER. EDNA SIBLEY TIPTON, Jackson Heights, N. Y. Filed Feb. 26, 1926. Serial No. 90,990. 4 Claims. (Cl. 128—260.)



1. A perfume container and dispenser comprising a cylindrical barrel arranged to contain perfume, a feed aperture for said barrel, a vent aperture for said barrel, and an element normally closing said apertures, said element being formed and adapted to be actuated at will into a position wherein and whereby said apertures are simultaneously opened, for the purposes set forth; the wall of said barrel surrounding said vent aperture being adapted for the application of a suction device thereto to fill the barrel.

1,686,189. FRICTION BLOCK. JAMES S. THOMPSON, New York, N. Y., assignor to American Brake Materials Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,381. 7 Claims. (Cl. 188—251.)



5. A friction block comprising a composition body, a reticulated metal plate anchored to the body and extended beyond the ends thereof, transverse plates arranged on opposite sides of said extended ends, and means for clamping said plates upon said extended ends to reinforce and strengthen the ends.

1,686,190. FRICTION BLOCK. JAMES S. THOMPSON, New York, N. Y., assignor to American Brake Materials Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,383. 9 Claims. (Cl. 188—258.)



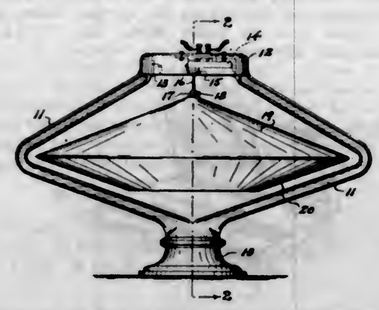
5. A friction block comprising a reticulated back and a composition body mounted thereon, a part of the back projecting beyond the body, and a metal strip doubled on said projecting part, there being an opening through the doubled metal strip and the projecting part enclosed therein, the edge of said opening on one side of said doubled metal strip being depressed to interlockingly engage said projecting part.

1,686,191. FRICTION BLOCK. JAMES S. THOMPSON, New York, N. Y., assignor to American Brake Materials Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,384. 7 Claims. (Cl. 188—251.)



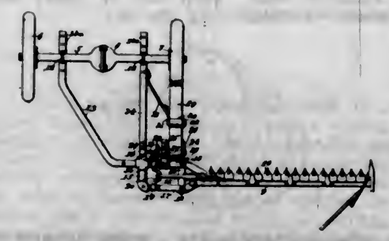
5. A friction block comprising a back and a composition body mounted thereon, a part of the back projecting beyond the body, and a metal reinforce on both sides of said back and having an opening therethrough and spot welded at the edge of said opening.

1,686,192. LOUD SPEAKER. WILLIAM H. VIDOR, Maplewood, N. J., assignor to Gloria Manufacturing Corp., Newark, N. J., a Corporation of New Jersey. Filed June 25, 1925. Serial No. 39,448. 5 Claims. (Cl. 181—31.)



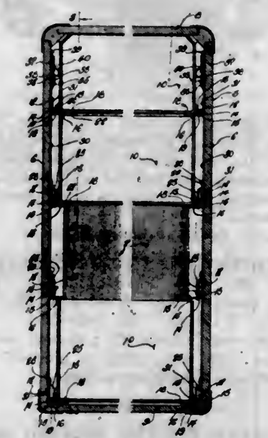
1. A loud speaker comprising a support, a balanced telephone receiving unit affixed to said support, a vertical vibrating rod actuated by said unit, and a diaphragm means supported solely by said rod and adapted to be vibrated thereby, said diaphragm means consisting of two hollow conical elements connected at their base edges, the lower element being truncated and open at its center, the upper element being affixed at its apex to said rod.

1,686,193. AUTOMOBILE DRIVING MECHANISM FOR IMPLEMENTS. CHARLES A. WALTERS, Marion, Iowa. Filed July 25, 1927. Serial No. 208,215. 3 Claims. (Cl. 180—53.)



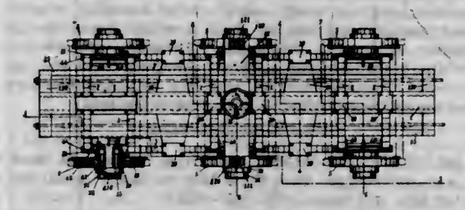
1. Combined with an automobile driving wheel, a frame in fixed relation thereto, a driving pulley carried by said frame, and an inwardly concaved belt connecting the wheel and pulley, and adapted to operate tractively as the automobile moves over the ground.

1,686,194. DRAWER-LOCKING DEVICE. GEORGE HENRY WHEARY and MATHIES KURTEN, Racine, Wis., assignors to Wheary Trunk Co., Racine, Wis., a Corporation of Wisconsin. Filed Aug. 6, 1924. Serial No. 730,523. 5 Claims. (Cl. 45—94.)



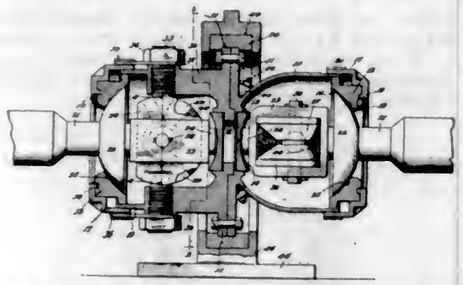
1. In a device of the character described including a drawer receiving section having side walls and a drawer slidable therein, drawer guide members secured to the section side walls, guide members carried by the drawer and slidably interlocked with the first-named guide members, a bar member slidably mounted at one section side wall, and means carried by the bar and adapted to be passed through registering apertures in the guide members to lock the interlocked guide members against relative movement when the drawer is closed.

1,686,195. SPRING SUSPENSION. JAMES A. WRIGHT, Montreal, Quebec, Canada. Filed Dec. 22, 1926. Serial No. 156,506. 20 Claims. (Cl. 105—180.)



1. In the spring suspension of rolling stock, a plurality of spring elements, each element having a pair of parallel springs mounted one above the other, between the frame and the independent wheels.

1,686,196. UNIVERSAL TANDEM JOINT. MAXWELL W. WYSONG, North Plainfield, N. J., assignor of one-half to Herbert C. Poole, Newark, N. J. Filed Feb. 18, 1926, Serial No. 89,152. Renewed Aug. 1, 1928. 9 Claims. (Cl. 64—91.)

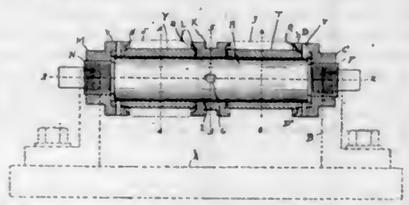


1. A universal tandem joint including a double ended joint member composed of separate universal joint units, means connecting said units with each other and means rotatably mounting said member and limiting said units against separation to provide a reinforcement for said connecting means.

1,686,197. IMPERVIOUS CHEMICAL MATERIAL AND METHOD OF ITS PRODUCTION. WARREN F. BLEECKER, Boulder, Colo. Filed Jan. 13, 1923. Serial No. 612,514. 3 Claims. (Cl. 106—32.)

1. An impervious chemically-resistant material having in intermixture with artificial graphite, sulfur and solid hydrocarbons chemically combined.

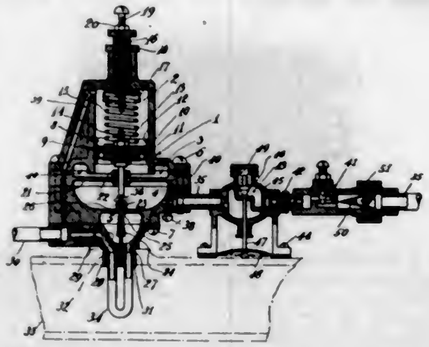
1,686,198. APPARATUS FOR HOLDING HALF BEARINGS IN POSITION FOR MACHINING. LOWELL C. BLOMSTROM, Detroit, Mich., assignor to Federal Mogul Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 6, 1927. Serial No. 211,087. 10 Claims. (Cl. 82—43.)



1. The combination, with terminal supporting members, of a pair of end clamping members supported thereby, each being horizontally bored and provided with screw threadings of reverse pitch one to the other, a carrying arbor provided at its ends with complementary screw threading to that of the adjacent clamping member wherein each end rests, and a central clamping member fixed against rotation on said carrying arbor though capable of limited lengthwise movement with respect thereto, between whose marginal clamping faces and the opposite clamping faces of said end clamping members bearing shells are adapted to be removably held.

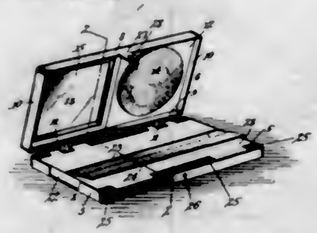
1,686,199. FLUID-MIXING DEVICE. HYMAN D. BOWMAN, Pittsburgh, Pa. Filed May 6, 1927. Serial No. 189,300. 7 Claims. (Cl. 123—122.)

1. In a fuel mixing device, for internal combustion engines of the character described, having a suction chamber, an atmospheric chamber, a mixing chamber and a fuel chamber communicating therewith, the combination of a plurality of lines for conducting the component fluids of said fuel into said mixing chamber; a heating element in commmunication with said fuel chamber and with the intake manifold of said engine; said intake manifold being in communication with said suction chamber; a member movable within the suction chamber; means for exerting a downward pressure on said movable member;



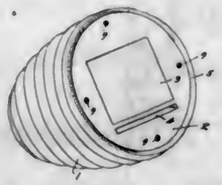
a valve-stem positioned on said movable member and a valve on said valve-stem for cutting off the communication between said mixing chamber and fuel chamber when said engine is at a stand still.

1,686,200. TOILET KIT OR CONTAINER. WILLIAM H. CANNARD and ALEXANDER W. WITBRO, Green Bay, Wis. Filed June 12, 1926. Serial No. 115,514. 9 Claims. (Cl. 132—83.)



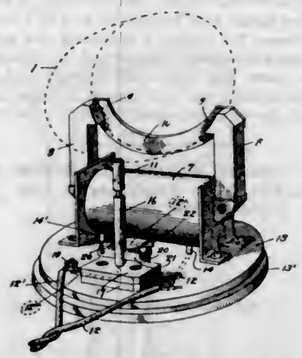
5. A container for toilet powder and an accessorial applying-element, including a box-component, a closure therefor hingedly connected thereto, a powder-compartment in the closure-component, a paper-compartment in the box-component for housing separable paper sheets, a closure for that compartment hingedly connected to the box-component and apertured longitudinally to dispense, successively, sheets of said paper from the compartment for use in conjunction with powder from the powder-compartment the two closures being independently movable, and a mirror in the closure-component and juxtaposed to the powder-compartment and overlying the closure for the paper-compartment when the container is closed.

1,686,201. HOME SAVINGS BANK. CARL W. CHERRY, San Francisco, Calif. Filed July 27, 1925. Serial No. 46,428. 2 Claims. (Cl. 70—50.)



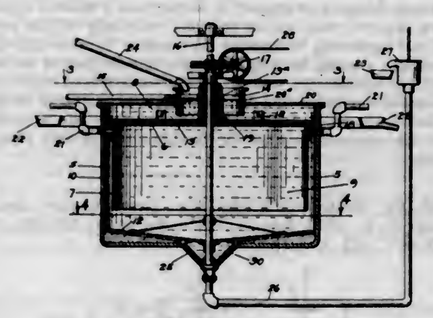
1. A cylindrical bank having a spring actuated door in its flat surface, adapted to swing it to open position when released, locks having spring-projected bolts for locking said door, said locks being movable into unlocking position by magnets disposed exteriorly of the casing and in alignment with the movement of said locks.

1,686,202. MAGNETIC-LOCK-OPERATING DEVICE. CARL W. CHERRY, San Francisco, Calif. Filed July 27, 1925. Serial No. 46,429. 2 Claims. (Cl. 70—50.)



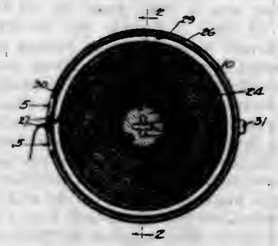
1. A magnetic-lock operating device comprising a support for carrying a bank having a curved wall, a portion of said support to contact with said curved wall and to conform therewith, magnets carried by said support and being positioned so as to lie opposite magnetic bolts carried by a bank when the bank is disposed in place and means for energizing said magnets.

1,686,203. THICKENING APPARATUS. HARRISON S. COE, Lawrence, Kans. Filed Jan. 9, 1925. Serial No. 1,476. 4 Claims. (Cl. 210—55.)



1. An apparatus for separating solids in hot solid-liquid suspensions, comprising a tank, a settling chamber having a circumferential, heat-transferring wall spaced from the corresponding wall of the tank to provide a downwardly extending passage, the settling chamber having an outlet for settled solids and an overflow for clarified liquid, and a feed chamber above the settling chamber separated therefrom by a substantially horizontal partition and connected with the passage for the conveyance of material to the lower portion of the settling chamber.

1,686,204. FILM MAGAZINE. BYRON V. COVERT, Lockport, N. Y. Filed May 31, 1927. Serial No. 195,464. 11 Claims. (Cl. 242—71.)



5. A film magazine having a floating light excluding shutter at the film slot, said shutter having relatively movable portions adapted to yieldingly bear against the respective sides of the film.

1,686,205. REFRIGERATOR. JOSÉ MIGUEL TORRES Y CURBELO, Habana, Cuba. Filed Feb. 2, 1927, Serial No. 165,437, and in Cuba Jan. 17, 1927. 1 Claim. (Cl. 62—42.)



In refrigerating apparatus, a casing forming a chamber having a closed top and sides and an open bottom, said casing being formed internally with baffles extending from the top to the plane of the bottom, arranged to conduct cooling liquid in a tortuous path through said casing, and a removable bottom for said casing having a plane upper surface engaging the edges of the sides of said casing and the edges of said baffles in water tight relation.

1,686,206. METHOD OF PRODUCING METALS OR METAL ALLOYS LOW IN CARBON DIRECTLY OUT OF ORE OR THE LIKE. HENNING GUSTAV FLODIN, Roslags-Nasby, and EMIL GUSTAF TORVALD GUSTAFSSON, Stockholm, Sweden. Filed Dec. 17, 1924, Serial No. 756,537, and in Sweden Jan. 12, 1924. 13 Claims. (Cl. 75—22.5.)

1. A method of producing metals or metal alloys low in carbon directly from ore and the like, consisting in mixing intimately finely divided ore, finely divided carbonaceous material of a quantity proportioned to the reduction of the ore and to the desired percentage of carbon in the product, and a binding agent, forming the mixture into desired shape, solidifying the bodies thus obtained so as to effect fixing of the positions of the ore and carbon particles with relation to one another, feeding said solidified bodies into an electric furnace repeatedly in quantities required for an even reduction and a regular operation of the process and reducing and melting same whilst floating on the top of the slag bath.

1,686,207. DIRECT REDUCTION PROCESS FOR PRODUCING CARBON BINDING METALS OR METAL ALLOYS. HENNING GUSTAV FLODIN, Roslags-Nasby, and EMIL GUSTAF TORVALD GUSTAFSSON, Stockholm, Sweden, assignors to Hampus Gustaf Emrik Cornelius, Stockholm, Sweden. Filed Apr. 7, 1925, Serial No. 21,412, and in Sweden Nov. 27, 1924. 5 Claims. (Cl. 75—22.5.)

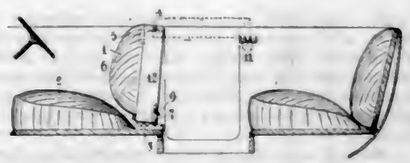
1. An endothermic direct reduction process for producing carbon binding metals and metal alloys consisting in charging an electric furnace, having an electrode that can be raised and lowered and in which heat is thus developed by electric resistance in the slag bath, with a solidified mixture containing finely divided oxide ore and finely divided reducing agent in the proportion required for reduction of the ore and carbonization of the metal, reducing and melting said mixture whilst swimming on the slag bath, controlling the temperature of the slag bath and of the molten metal by supplying the heat, required for the reduction, to the upper layer of the slag bath through regulating the position of the electrode relatively to the slag bath and running with an arc between the electrode and the slag bath.

1,686,208. SHADE-ROLLER MOUNTING. CHARLES P. FREESTATE, Riverside, Ill., assignor to Western Shade Cloth Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1927. Serial No. 169,726. 2 Claims. (Cl. 156—29.)



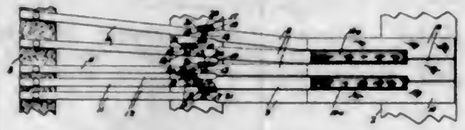
1. In a shade roller mounting, a bracket having a bearing aperture and two offset spring-retaining loops at opposite sides of the aperture, a roller, a trunnion on the roller having a portion journaled in the aperture and a grooved portion beyond the journaling portion, and a U-shaped spring extending across the bracket with the end portions of the spring beneath the loops in the bracket and the intermediate portions of the spring in opposite parts of the groove in the trunnion for resisting endwise movement of the roller.

1,686,209. MOTOR AND OTHER VEHICLE. HAROLD DELF GILLIES, London, England. Filed Nov. 30, 1925, Serial No. 72,258, and in Great Britain Dec. 2, 1924. 4 Claims. (Cl. 155—43.)



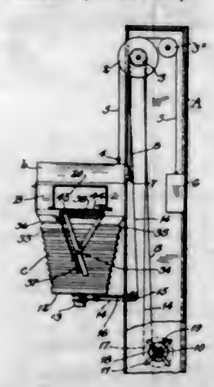
1. In combination with a vehicle, a seat, a back for said seat rotatably mounted on bearings at its upper end, means mounted upon the sides of the lower end of said back adapted when said back as a whole is rotated to a horizontal position to coact with further means mounted upon the sides of said vehicle in substantially the same horizontal plane as said bearings and at a distance to the rear thereof substantially equal to the height of said back to hold said back in a horizontal position.

1,686,210. PIANO-KEY MOUNTING. WALTER A. GOBLE, Grand Rapids, Mich. Filed Feb. 28, 1927. Serial No. 171,536. 7 Claims. (Cl. 84—435.)



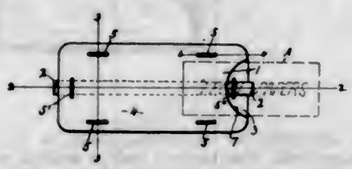
3. In a construction of the class described, a balance rail, a plurality of piano keys located above and across the balance rail, means for pivotally mounting the keys on said rail, said means being vertically adjustable through the keys to raise or lower the outer ends thereof, and means attached to the balance rail and located between the keys for holding each key from sideways tipping in either direction.

1,686,211. ROLL-FILM CONTROL. SAMUEL M. HERSHBERG, Brooklyn, N. Y. Filed June 10, 1926. Serial No. 114,930. 5 Claims. (Cl. 88—24.)



1. In a camera, a casing, a bellows depending from the casing, a lens carried by the bellows, means for simultaneously adjusting the position of the lens and casing, a negative rack within the casing, a negative holder held in said rack and adapted to support a supply and a take-up spool for a negative film, means operable exteriorly of the casing for imparting successive movements to the take-up spool, and a guide forming a predetermined limit of movement for said latter means, said predetermined limit of movement corresponding to the length of negative to be exposed so that successive lengths of negative may be actuated into exposed position by the actuation of said latter means.

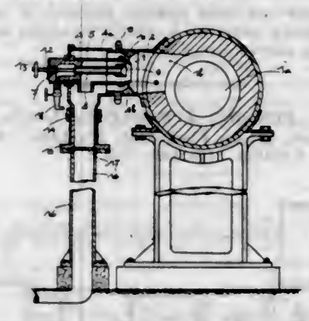
1,686,212. FILING-TAB HOLDER. LEE KINGSLEY, Syracuse, N. Y. Filed Feb. 21, 1927. Serial No. 169,880. 2 Claims. (Cl. 40—17.)



1. A filing-tab-holder comprising opposite plates of approximately equal width and length and secured flatwise to each other along opposite longitudinal edges to form an intervening relatively shallow tab-receiving chamber, said chamber being open at one end to permit the insertion and removal of the card and a rubber band having one side extending continuously through said chamber from end to end thereof and secured to the inner plate against relative

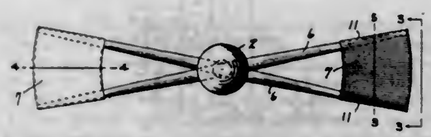
movement thereto and its remaining portion returning beneath said plate, the portion of the rubber band between the plates forming a part of the inner wall of the chamber for frictional engagement with the tab when the latter is inserted into the chamber, the outer plate being transparent to permit the indicia on the tab to be read therethrough.

1,686,213. LIQUID-FUEL BURNER. DIMITRI KOUDRITSKY, Charleroi, Belgium. Filed Sept. 18, 1926, Serial No. 136,279, and in Belgium Sept. 24, 1925. Renewed Aug. 22, 1928. 2 Claims. (Cl. 158—76.)



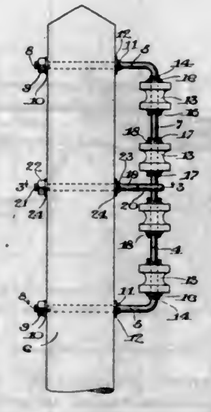
1. A liquid fuel burner intended to be applied to metallurgic and the like furnaces, steam boilers of locomotives and the like industrial appliances, comprising a hollow column or standard for supporting the burner proper and through which air under pressure is forwarded to the burner, an air admission valve on said hollow column, a liquid fuel chamber secured on top of said column, a regulable duct for conveying the liquid fuel under pressure from an upper fuel tank to said chamber, a central tubular member projecting by one of its ends into said fuel chamber, a liquid fuel regulating spindle slidably fitting said tubular member, means for operating said fuel regulating spindle, a flaring conic frustum fuel discharging valve at the end of said spindle and fitting the flaring nozzle of the said tubular member, longitudinal grooves on the outer periphery of said spindle, through which grooves the liquid fuel under pressure is forwarded from the fuel chamber to the said discharge valve, a primary not adjustable air duct surrounding the said tubular member and forwarding compressed air proceeding from the said hollow column, an inwardly narrowing nozzle member at the end of said primary compressed air duct for discharging an annular air current intersecting and atomizing the liquid fuel discharged in shape of a conic frustum sheet between the said conic valve at the end of the spindle and the concentrically disposed flaring nozzle of said tubular member, a secondary or combustion compressed air duct concentrically surrounding the first or primary air duct and forwarding the air for the full combustion of the atomized fuel, means for regulating the delivery of said secondary compressed air current, a combustion chamber, and an inclined duct connecting the said atomizing space with said combustion chamber.

1,686,214. PROPELLER. ROYAL N. KYLE, Gardnerville, Nev. Filed Mar. 8, 1927. Serial No. 173,694. 1 Claim. (Cl. 170—169.)



In a propeller of the character described, a hub, rods extending radially therefrom so as to lie substantially in a helical curve, and a blade cored longitudinally and sprung on the extremities of the rods.

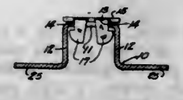
1,686,215. SECONDARY RACK. WILLIAM D. KYLE, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed July 27, 1923. Serial No. 654,157. 5 Claims. (Cl. 173—321.)



1. A secondary rack comprising a U-shaped member having integral leg portions each adapted to extend through a rack support and be clamped thereto, and insulators spacedly mounted on and receiving therethrough the transverse portion of said member and maintained against longitudinal displacement.

3. A secondary rack comprising a U-shaped member having leg portions each adapted to be clamped to a rack support, insulators mounted on the transverse portion of said member, and a hooked bolt member engaging said transverse portion at an intermediate point and having a threaded portion clamped to the support to reinforce said U-shaped member against bending strains.

1,686,216. INSULATING RACK. WILLIAM D. KYLE, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Original application filed Nov. 17, 1923, Serial No. 675,317. Divided and this application filed July 12, 1926. Serial No. 121,884. 7 Claims. (Cl. 173—321.)

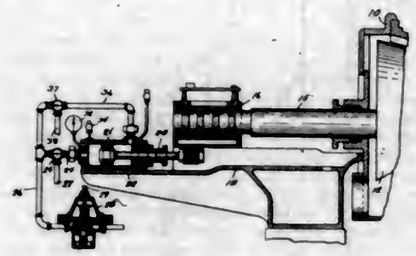


7. In an insulating rack, the combination of a base member adapted to abut against a support and including spaced parallel side portions the outer lateral edges of which are inturned to form lips arranged in the same plane and defining a longitudinally-extending slot between them, and an apertured washer plate slidably bearing on the outer faces of said lips and including opposite hooked portions loosely embracing said lips to guide said plate member for movement along said slot and to prevent the withdrawal of said plate from the base member.

1,686,217. CONTROLLING DEVICE FOR PULP-REFINING ENGINES. ARTHUR J. LOMAN, Uncasville, Conn., assignor of one-half to William Brown, Uncasville, Conn. Filed Jan. 20, 1928. Serial No. 248,071. 7 Claims. (Cl. 92—27.)

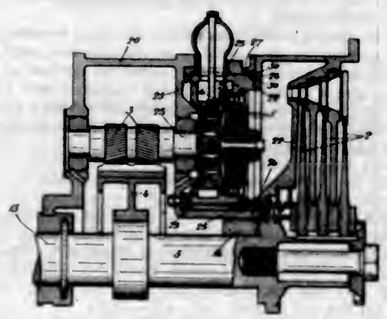
1. In a pulp refining engine, a casing having an internally conical bed, a conical beating roll arranged therein

for axial rotation and for movement axially into operative relation with said bed, and fluid pressure operated means



for moving the roll axially towards the bed and for holding it in operative relation therewith under a predetermined pressure.

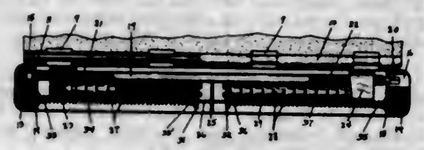
1,686,218. TURBINE AGGREGATE. FREDRIK LJUNGSTRÖM, Lidingo-Brevik, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Lidingo-Brevik, Sweden, a Corporation. Filed Dec. 26, 1924, Serial No. 758,284, and in Sweden Dec. 14, 1923. 2 Claims. (Cl. 60—70.)



1. A turbine aggregate, comprising a low pressure system, a single shaft carrying the low pressure system, a casing surrounding the low pressure system and provided with a steam supply portion, a high pressure system, a casing surrounding the high pressure system and provided with an exhaust steam portion, movably connected with the supply portion of the low pressure system, a shaft carrying the high pressure system and journalled in the casing of the high pressure system, and a pinion fixed on the shaft of the high pressure system and a toothed gear fixed on the shaft of the low pressure system and adapted to be driven directly by said pinion.

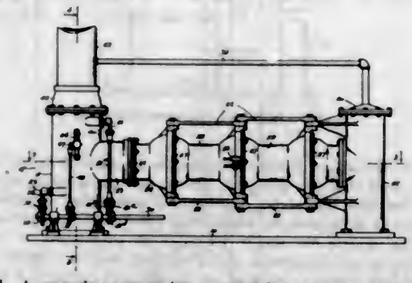
1,686,219. FLEXIBLE-POST BINDER. JOHN L. MCMILLAN and PAUL O. UNGER, Syracuse, N. Y., assignors to McMillan Book Company, Syracuse, N. Y., a Corporation of New York. Filed Dec. 27, 1927. Serial No. 242,744. 4 Claims. (Cl. 129—41.)

4. In a device of the class described, a pair of hollow clamping members, opposed apertures in said clamping members, a flexible post extending through each pair of opposed apertures and having one end enclosed in one of the said clamping members and the other end enclosed in the other clamping member, a guide rod in one of said clamping members adjacent the enclosed ends of the flexible posts, a guide link secured to the end of each of said



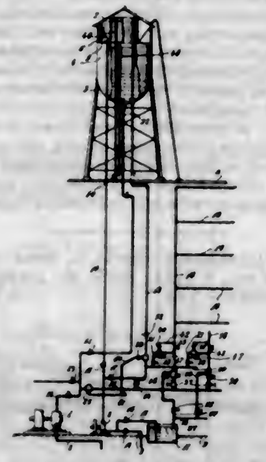
flexible posts and being slidably mounted on said guide rod, and spring means for yieldingly retaining the flexible posts inside said clamping member.

1,686,220. PUMPING APPARATUS. LESTER MORGAN, New York, N. Y. Filed Sept. 30, 1925. Serial No. 59,600. 6 Claims. (Cl. 103—153.)



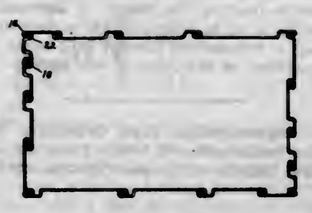
1. A pumping apparatus, comprising a casing having intake, suction and delivery chambers, and a pump piston therefor, including a hollow sectional piston rod, means for simultaneously reciprocating and oscillating the said sections, and means for establishing communication between the delivery side of said chamber and the interior of said piston rod.

1,686,221. SPRINKLER SYSTEM. CHARLES ADAMS, Jr., Cliffside Park, N. J., assignor of one-half to Sidney F. Weston, New York, N. Y. Filed Apr. 14, 1927. Serial No. 183,630. 9 Claims. (Cl. 169—5.)



1. In a system of the character described, the combination with a sprinkler discharge branchway, of a water supply tank, a container for a non-freezing, non-combustible medium, a conduit connecting the water supply tank to said sprinkler discharge branchway, a second conduit for connecting said container to said sprinkler discharge branchway, means for causing said sprinkler discharge branchway to be filled with said medium, a separation valve for separating the water in said first conduit from the medium in said sprinkler discharge branchway, the medium being subjected to a greater pressure than the water and thereby causing said separation valve to remain closed so long as such variation in pressure continues, a bypass connected to said sprinkler branchway, and an automatic control valve to obstruct the main passage to said sprinkler branchway after the required pressure has been built up by the medium in said branchway, whereupon said bypass will function to replenish the system for leakage, said bypass also functioning to retard the passage of the medium to said sprinkler branchway when said sprinkler branchway is open in case of fire thereby to facilitate the immediate reduction of the pressure in said medium to cause the separation valve to open for the passage of the water.

1,686,222. KNOCKDOWN CONTAINER. FRANCIS J. ADLER, West New Brighton, N. Y. Filed June 21, 1921. Serial No. 479,324. 6 Claims. (Cl. 220—7.)



1. A receptacle comprising wall members, hooked formations on the edges lateral of said wall members, the hooked formations of adjacent wall members hooking into one another, and means for receiving the end edges of said wall members to expand the hooked formations of said wall members into interlocking position.

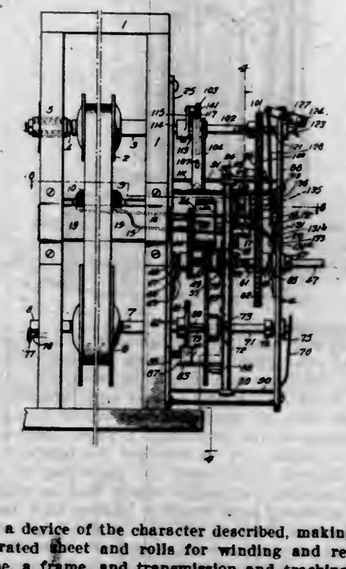
1,686,223. STABLE-SURFACE IRON-CHROMIUM-SILICON ALLOY. PERCY A. E. ARMSTRONG, Loudonville, N. Y., assignor to Ludlum Steel Company, Watervliet, N. Y., a Corporation of New Jersey. Filed Feb. 19, 1924. Serial No. 693,920. 4 Claims. (Cl. 148—2.)

4. The process of making wrought articles of alloys containing principally chromium, silicon and iron with chromium over about 13%, silicon about .3–5%, carbon as low as practicable and under .05%, which comprises putting together degasified molten iron and preheated chrome alloy material, casting into ingots, hot working into reduced sizes, heating to an initial rolling temperature of about 1900–2300° F., and finish rolling with substantially maximum draft roll passes, finishing the rolling at a temperature above about 1100° F.

1,686,224. PROCESS OF DYEING AND PRINTING AND PRODUCT OBTAINED THEREIN. MARTIN BATTEGAY, Mulhouse, France, assignor to Calco Chemical Co., Boundbrook, N. J., a Corporation of New Jersey. Filed Nov. 1, 1926. Serial No. 145,099. 22 Claims. (Cl. 8—5.)

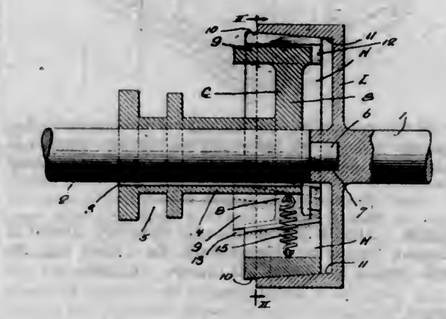
1. The process which comprises dyeing in one operation a fibrous material not substantially detrimentally affected by the substances used in treating the same, by applying thereto a mixed sulphurized phenol and a dyestuff comprised in the group of acid colors and salts of the same, to which an alkali has been added.

1,686,225. TRANSMISSION AND TRACKER MECHANISM UNIT. GEORGE P. BRAND, Westport, Conn. Filed Dec. 23, 1924. Serial No. 757,628. 36 Claims. (Cl. 84—137.)



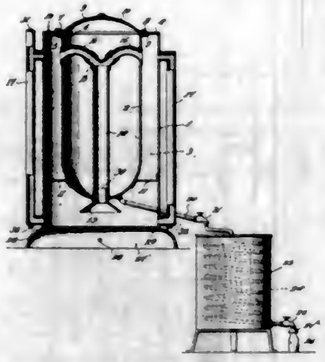
1. In a device of the character described, making use of a perforated sheet and rolls for winding and rewinding the same, a frame, and transmission and tracking mechanism carried by said frame, the said frame constituting in part portions of said mechanisms and detachable to provide ready access to the other parts.

1,686,226. CLUTCH. DE WITT C. CONKLIN, Jackson Heights, Long Island, N. Y. Filed Aug. 21, 1926. Serial No. 130,677. 4 Claims. (Cl. 192—65.)



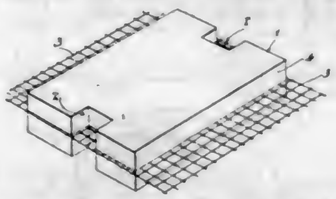
2. A cone clutch comprising an exterior cone member and an interior cone member, a shaft upon which the interior cone member is mounted to move longitudinally of the shaft, and said interior cone member comprising a sleeve slidable upon the shaft, said sleeve having a plurality of wedges rigidly connected to move therewith, a plurality of segmental friction parts, and springs interengaging between the friction parts and the sleeve to hold said friction parts in constant engagement with said wedges.

1,686,227. MEANS FOR THE PASTEURIZATION OF MILK. ERBY P. DAVIS, JAMES C. ROSS, and MARTIN E. SMITH, New Castle Hundred, Del. Filed Feb. 21, 1927. Serial No. 169,918. 3 Claims. (Cl. 257—210.)



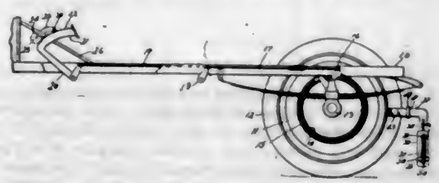
2. A hot water pasteurizing appliance comprising spaced inner and outer receptacles having the intervening space closed at its upper end, the inner receptacle having an opening in its bottom and a short pipe threaded at both ends fitted into the opening formed in the bottom of the inner receptacle and projecting a short distance downwardly, to which may be attached the nozzle of an inversely disposed funnel, and also projecting for a short distance upwardly, to which a pipe may be coupled extending upwardly with branches leading from the upper end of the pipe through the sides of the inner receptacle and return pipes on opposite sides of the outer receptacle and in communication with the upper and lower portions of the space formed between the two receptacles.

1,686,228. ADOBE WALL CONSTRUCTION. JOHN E. DEARDORFF, Vista, Calif. Filed Nov. 23, 1926. Serial No. 150,173. 6 Claims. (Cl. 72—32.)



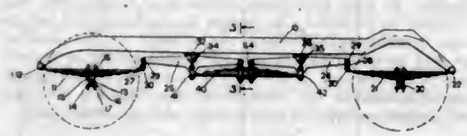
5. An adobe brick having notches in its ends extending completely through the brick and having wire gauze embedded in the same and extending across the said notches.

1,686,229. AUTOMOBILE BRAKE-TESTING DEVICE. GUSTAVE DIDERICH, Elkins Park, Pa. Filed Oct. 28, 1925. Serial No. 65,328. 2 Claims. (Cl. 265—1.)



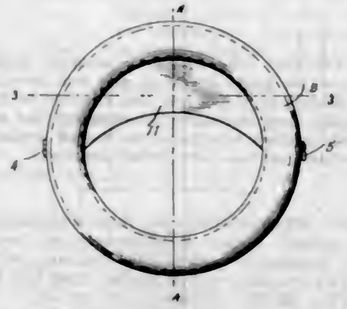
2. In a device of the character stated, a testing device including a scale, and means for temporarily attaching said scale to a vehicle wheel, said means comprising a pair of opposed resilient arms normally tending to separate, due to the resiliency thereof, there being arcuate jaws at the outer ends of said arms, means to force said arms toward each other to clamp the jaws about the wheel, and means at the end of the arms opposite the jaws for connection with the aforementioned scale.

1,686,230. SPRING SUSPENSION. CHARLES A. ERICKSON, Chicago, Ill. Filed Nov. 23, 1926. Serial No. 150,292. 1 Claim. (Cl. 280—104.)



A vehicle chassis, a pair of semi-elliptic springs, means for connecting one end of said springs to said chassis, a lever for supporting the other end of each of said springs, said levers being pivotally connected to said chassis, means for interconnecting the free ends of said levers, and means for resiliently limiting the extent of movement thereof, said assembly being so arranged that movement of one of said springs is transmitted through said levers to produce similar movement of the other of said springs.

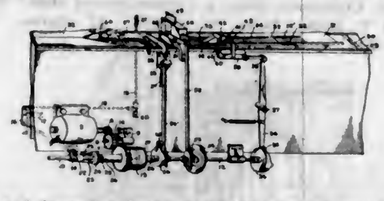
1,686,231. AUTOMOBILE TIRE CARRIER. ETHELBERT FRANCIS, Moundsville, W. Va. Filed May 21, 1927. Serial No. 193,209. 1 Claim. (Cl. 224—29.)



A tire carrier comprising hingedly connected inner and outer ring-like sections, semi-circular in cross section, a plate carried by the inner section having its lower edge bent forwardly to provide a bottom, partitions associated with said plate and bottom and defining compartments within the confines of both sections, the outer section having a plate carried thereby for closing the outer ends of the compartment when the sections are in their closed position.

1,686,232. FEEDING AND CUTTING PAPER MATCH SPLINTS. LEO GREENBAUM, Far Rockaway, EDWARD VAN HOOFSTADT, Oceanside, and CHARLES GUSTAVSON, Brooklyn, N. Y., assignors to Lion Match Company, Inc., a Corporation of New York. Filed Apr. 30, 1925. Serial No. 27,111. Renewed July 23, 1927. 5 Claims. (Cl. 164—48.)

1. In a match strip feeding mechanism for match book machines, having a cutter operable to sever successive match cards from the strips, a weighted feeder reciprocable toward and from the cutter and operative in its movement toward the cutter to engage a strip between the splints thereof and feed it to the cutter, and adapted when moved from the cutter to slide freely over the strip without engaging the same, said feeder having a substantially flat smooth



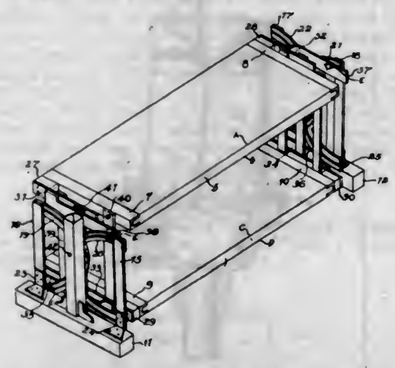
base and depending finger, said base being adapted to rest upon the splints and said finger adapted to engage therebetween.

1,686,233. SIGNALING DEVICE. MARION BORDEN HALLIDAY, New York, N. Y. Filed Apr. 6, 1927. Serial No. 181,311. 1 Claim. (Cl. 116—139.)



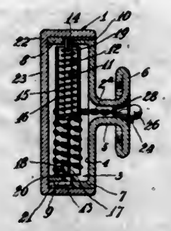
A manually operable signal device comprising an air chamber, a plunger mounted therein and provided with a stem, a whistle in said stem communicating through said stem and plunger with the interior of the air chamber, a lug projecting from a wall of said chamber and adapted to engage a portion of the hand of a user, and a finger piece at the outer end of said stem, said lug and said finger piece being so positioned and related that endwise movement of the air chamber is prevented by the lug when the user presses down against the finger piece in operating the device.

1,686,234. LABORATORY TABLE. OLIVER G. HARNE, Baltimore, Md. Filed Feb. 13, 1926. Serial No. 88,027. 3 Claims. (Cl. 45—111.)



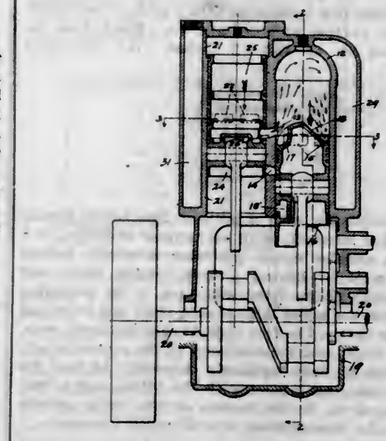
3. In a sectional laboratory table two table sections, pivoted means connecting the sections together and other pivotal means connecting the sections pivotally to supports and positive means for mutually positioning said table sections to permit said tables to become relatively reversible, consisting of off-set supporting arms secured at one end to said table sections, the other ends being guided in a definite path, and means for guiding said ends in said definite paths.

1,686,235. CUFF LINK. CHARLES W. HEASLEY, Pittsburgh, Pa. Filed Dec. 13, 1927. Serial No. 239,680. 8 Claims. (Cl. 24—102.)



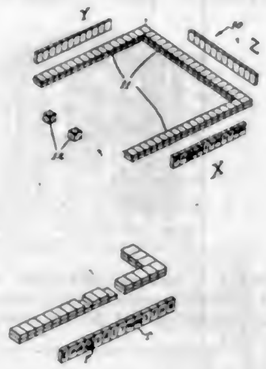
1. In a cuff-link, a pair of cuff-buttons; a flexible extensible and retractible member on each button, and means for detachably connecting said flexible members together.

1,686,236. INTERNAL-COMBUSTION ENGINE. OLAF HETLESATER, Seattle, Wash., assignor to Full Expansion Motors Corporation, Seattle, Wash., a Corporation of Washington. Filed June 16, 1926. Serial No. 116,761. 7 Claims. (Cl. 123—69.)



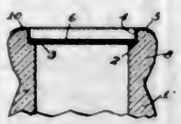
4. In an internal combustion engine, the combination of a power cylinder having a fuel intake port from a fuel charging cylinder, an exhaust port and an auxiliary fuel supply port into the charging cylinder, an independent port connecting with a source of fuel supply, also a passage extending from a source of compressed air supply to the intake port passage, a power piston having a recessed passage registrable with said auxiliary port and the independent port, also formed with relation to the aforesaid intake and exhaust ports, a charging cylinder having the aforesaid power cylinder intake and auxiliary ports, also an intake port connecting with a source of fuel supply, a charging piston having a recessed head with a port therein reciprocatingly registrable with the said power cylinder intake and auxiliary ports, and a shaft having cranks thereon for the respective pistons, which are connected with the opposing cranks at angles related to each other and to the cylinders, the power cylinder being offset from the charging cylinder, so that the auxiliary port will not register with the charging piston outlet port and the power piston auxiliary inlet port at the same time during the charging piston compression stroke.

1,686,237. GAME. SEYMOUR L. HOEXTER, Cedarhurst, N. Y. Filed Oct. 16, 1925. Serial No. 62,938. 1 Claim. (Cl. 273—137)



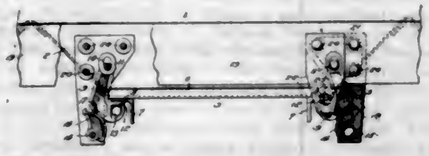
A game apparatus of the character described comprising a plurality of pieces, some of said pieces bearing each a letter of the alphabet and others bearing symbols other than such letters and definable by groupings of said letter bearing pieces.

1,686,238. BOTTLE PROTECTOR AND CLOSURE. FREDERIC S. JULIUS, Philadelphia, Pa. Filed June 14, 1927. Serial No. 198,733. 2 Claims. (Cl. 215—38.)



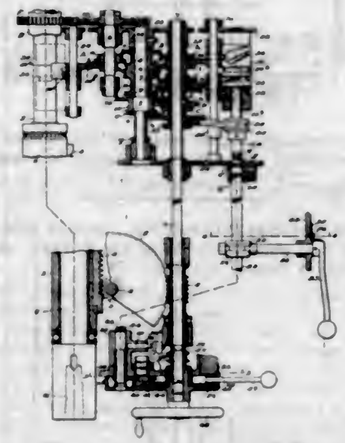
2. The combination with a milk or like bottle having a neck provided interiorly with an annular shoulder, of a discontinuous annular mouth protector integrally formed of resilient material having a base resting upon said shoulder, a skirt rising from said base, a lip extending outwardly from the upper edge of said skirt and overlying the top of the bottle, the free ends of said protector overlapping each other, and the resiliency of the protector urging its overlapping ends yieldingly outwardly to hold the protector in snug engagement with the bottle, and a sealing disc shaped to fit the mouth of the bottle closely resting upon the base portion of said mouth protector.

1,686,239. CAR-DOOR MECHANISM. BYERS W. KADEL, Baltimore, Md. Filed June 1, 1925. Serial No. 34,040. 9 Claims. (Cl. 105—308.)



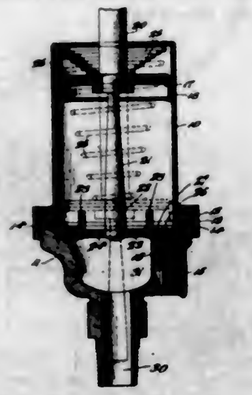
1. A car door mechanism including, in combination with a door hinged to the car body, a hook for supporting said door against opening movement, and a cam adapted to engage said hook for supporting the latter in an elevated position when the door is closed, said hook being slidably and swingingly mounted and being adapted to have supporting engagement with said door in a plurality of positions of the latter, and said cam being pivoted below said hook and being adapted to engage the latter so as to sustain the load imposed thereon by the door.

1,686,240. MULTIPLE-LEVER TWENTY-FOUR-SPEED MECHANISM. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 7, 1925. Serial No. 42,073. 17 Claims. (Cl. 74—67.)



1. A multiple speed mechanism combining a prime mover; a shaft; three serially arranged speed change devices connecting said prime mover with said shaft to rotate the latter at a plurality of speeds; a rotatably and translatably mounted shaft connected to control said three speed-change devices; means to rotate said shaft to cause it to actuate two of said speed-change devices, and means to translate said shaft to cause it to actuate one of said speed-change devices.

1,686,241. GREASE CUP. JOHN FRANKLIN MACINDOE, Philadelphia, Pa. Filed Mar. 3, 1927. Serial No 172,387. 7 Claims. (Cl. 184—45.)



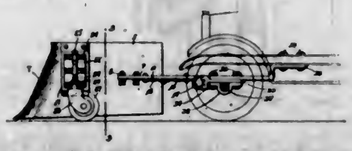
1. The combination of a grease cup having a discharge outlet, a control plate having a port therethrough, said plate dividing said cup into a main grease reservoir and an auxiliary grease reservoir, a spring pressed piston for forcing grease through said port, and means located in said port and controlled by said piston for automatically varying the quantity of grease passing through said port.

1,686,242. BIRD CAGE AND THE CONSTRUCTION THEREOF. BERNARD MARKOW, Brooklyn, N. Y. Filed Apr. 15, 1927. Serial No. 183,937. 19 Claims. (Cl. 119—17.)



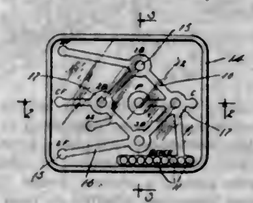
1. In a bird cage structure, a series of wires, and a band enclosing straight portions of said wires and frictionally holding said wires in predetermined horizontal spaced relation, comprising a substantially closed flattened tube having a series of spaced apertures in the narrowest part thereof of the cross-sectional shape of and adapted to receive said wires, the wide faces of said tube being parallel throughout and the least depth of said tube measured from front to rear being greater than the diameter of said wires, and a strip parallel throughout to the faces of said tube and arranged in the interior of the tube between said wires and the rear face of the tube and clamped by the tube in engagement with the wire while the parallelism of the strip and the tube is maintained.

1,686,243. SNOWPLOW. EDWARD B. MEYER, Newburgh, N. Y. Filed Apr. 28, 1926. Serial No. 105,047. 3 Claims. (Cl. 37—44.)



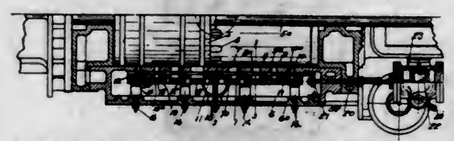
1. A snow plow attachment for motor driven vehicles comprising a pair of mold boards diverging from a cutting angle, of devices for reinforcing the mold boards, connections between said devices and the motor vehicle comprising a pair of hinges arranged to permit vertical movement of the mold boards relative to the vehicle, a frame adjustable within the mold boards to hold said boards at different heights, and a single caster wheel mounted on said frame and supporting the weight of said frame, the mold boards and the reinforcing devices.

1,686,244. BASEBALL PUZZLE. ARTHUR E. MORTIMER, Los Angeles, Calif. Filed May 24, 1927. Serial No. 193,778. 7 Claims. (Cl. 273—91.)



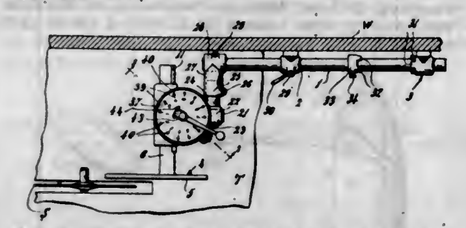
1. A puzzle of the character described, including a plate having a plurality of cup depressions corresponding to the positions of players of a game and trough depressions interconnecting the cup depressions, and a plurality of balls for operation through the trough depressions and into the cup depressions, the trough depressions having enlarged portions around the cup depressions where they join at cup depressions.

1,686,245. RECIPROCATING STEAM ENGINE. HERMAN G. MUELLER, Erie, Pa., assignor to Skinner Engine Company, Erie, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1923. Serial No. 661,342. 4 Claims. (Cl. 121—136.)



1. In a reciprocating steam engine, the combination of a cylinder; a piston operating in the cylinder; said cylinder having a series of bleeder ports, those uncovered late in the power stroke of the piston being longer in the direction of the axis of the cylinder than those uncovered earlier in the stroke of the piston; a valve controlling said ports and opening the same successively, the long ports permitting the continued opening of the first ports opened as the subsequent ports are opened.

1,686,246. ADJUSTABLE GUIDE. JOHANN MÜRNER, Stemsburg, Switzerland. Filed Nov. 29, 1926, Serial No. 151,391, and in Switzerland Nov. 30, 1925. 8 Claims. (Cl. 143—174.)



3. The combination with a rotary saw, of a guide for guiding a piece of wood during the cutting of a parallel face by said saw, an arm for supporting said guide, a vertically extending shaft, a gear fixed on said shaft, a toothed edge on said arm in mesh with said gear, a dome fixed on said shaft and having graduations, the graduations indicating the distance of the space between the guide and the saw corresponding to the position of the gear, a bracket rotatably mounted on the upper end of said shaft which extends above and through the apex of said dome, a handle pivotally connected to said bracket, a finger on said handle, and there being a plurality of orifices in said dome adapted to receive said finger whereupon the rotation of said handle will actuate said dome in turn to actuate said gear.

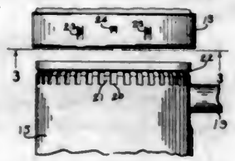
1,686,247. SLEEP-INDUCING PILLOW. EDWARD F. MURPHY, Newburgh, N. Y. Filed May 4, 1927. Serial No. 188,628. 4 Claims. (Cl. 5—337.)



1. An aromatic pocket for attachment on the surface of a pillow comprising a pocket with a flap, a button engaged through the flap and secured to the pocket, a brush back

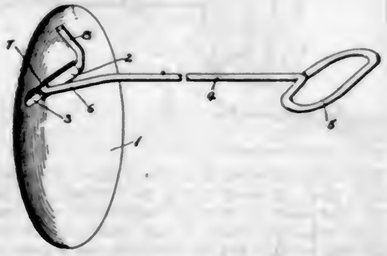
attached to the pocket, bristles therefrom abutting the inside of the flap, and a spring engaged beneath the button, and holding the flap against the bristles.

1,686,248. ELECTRIC-LIGHT SOCKET. ERASTUS G. OAKLEY, Southport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn. Filed Jan. 24, 1924. Serial No. 688,223. 6 Claims. (Cl. 173—362.)



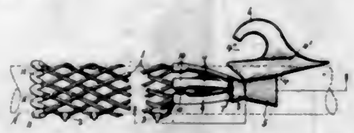
1. An electric light socket comprising a shell and a cap therefor, the metal of said shell being displaced inwardly adjacent the upper end thereof to form thereabove an annular shoulder on its outer surface, and a series of corrugations below said shoulder, and said cap being provided with integrally formed projections engaging below said shoulder to secure the shell and cap together, and with means to engage said corrugations to prevent relative rotation of the parts.

1,686,249. FURNACE-FUEL CLEANER. THOMAS OLINGER, Holland, Mich., assignor to Federal Manufacturing Company, Holland, Mich., a Corporation of Michigan. Filed Sept. 8, 1925. Serial No. 54,879. 1 Claim. (Cl. 15—242.)



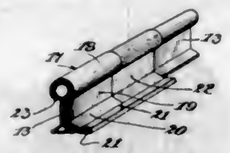
In a flue cleaner, a plate of sheet metal formed at one side of its center with an outwardly pressed bead open at both ends, an elongated wire handle member formed at one end with a pintle section extending transversely to the length of the handle, said pintle member extending through said bead for pivotal connection of the plate to the handle, said pintle section terminating in a stop section turned at right angles thereto, said stop section serving to retain the pintle within the bead and to engage the plate to limit its pivotal movement in one direction.

1,686,250. CABLE GRIP. HERBERT E. PAGE, Syracuse, N. Y. Filed July 7, 1927. Serial No. 203,969. 10 Claims. (Cl. 24—123.)



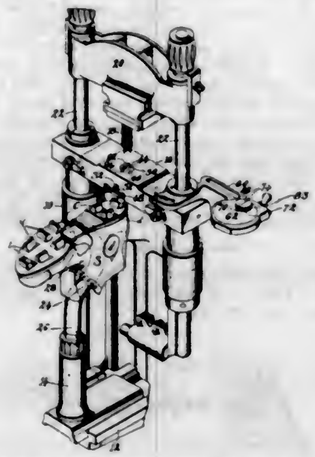
1. In a cable grip having diagonally interwoven strands separated at one end into branches and the strands of each branch bunched together, and a draft head having spaced attaching members tightly embracing the bunched strands of said branches.

1,686,251. INSULATED-CONTACT MEMBER. RAY V. PHILLIPS, Brooklyn, N. Y. Filed Mar. 15, 1927. Serial No. 175,537. 5 Claims. (Cl. 246—31.)



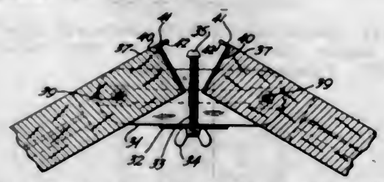
1. An insulated contact member comprising a cap to embrace the head of a rail, a web lying parallel with the web of the rail, a flange lying parallel with the rail flange, and a sheet fibre lining interposed between the rail and said contact member.

1,686,252. ATTACHING MACHINE. ELMER R. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 2, 1925. Serial No. 172. 33 Claims. (Cl. 1—19.)



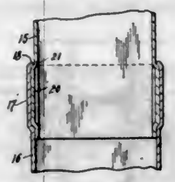
1. In a machine for attaching cleats to shoes, a shoe-support, a holder arranged to retain a cleat against movement therein, said holder being movable to present the contained cleat for attachment in different positions on the bottom of a supported shoe, and means movable independently of the holder for attaching a cleat thus held to said supported shoe.

1,686,253. CURTAIN STRETCHER. EDGAR J. QUIGGLE, Shelby, Ohio. Filed June 4, 1927. Serial No. 196,426. 2 Claims. (Cl. 45—24.)



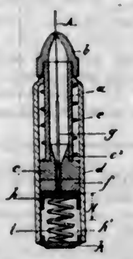
1. In a bar for a curtain stretcher having opposed and coacting portions adapted to be positioned in aligned relation to each other, and spaced side plates pivotally engaging said opposed and coacting portions, a cross piece connecting said side plates, a locking means threadedly engaging said cross piece and adapted to pass between said opposing and coacting portions, and lips formed on said opposing and coacting portions adapted to engage said locking means.

1,686,254. SHEET-METAL PIPE COUPLING. MAX RACHLIN, Brooklyn, N. Y. Filed Jan. 19, 1927. Serial No. 162,056. 1 Claim. (Cl. 285—185.)



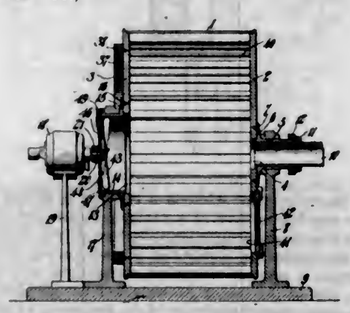
A sheet-metal pipe section provided with a plurality of longitudinally extending substantially wedge-shaped sockets in one of its ends, said sockets being wider at their outer ends than at their inner ends, a second sheet-metal pipe section having one of its ends inserted into the socketed end of said first-mentioned pipe section, and a plurality of wedge-shaped lugs on the inserted end of said second-mentioned pipe section corresponding in number to and being seated in said sockets, the free outer wider ends of said sockets being swedged over the inner ends of said lugs.

1,686,255. DISTRIBUTOR FOR SLENDER ARTICLES OF ELONGATED SHAPE. GABRIEL ROBERGEL, Vincennes, France. Filed Mar. 21, 1927, Serial No. 177,195, and in France Mar. 22, 1926. 5 Claims. (Cl. 312—77.)



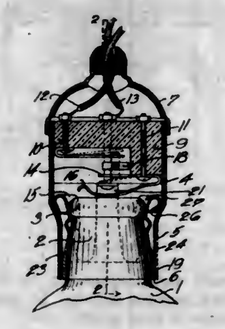
1. In a device of the character described, the combination with a socket one end of which is closed, of a member adapted for sliding in said socket, spring means between said member and the closed end of the socket, a rod carried by the said member, a seat at the end of said rod, a movable receptacle the bottom of which slopes toward a passage for the said rod, and a bulged and pierced lid on the said receptacle.

1,686,256. APPARATUS FOR DISTRIBUTING POWDERED MATERIAL. VERNON ROYLE, Paterson, N. J. Filed May 26, 1923. Serial No. 641,736. 14 Claims. (Cl. 302—36.)



1. An apparatus of the character described comprising a rotary cylindrical receptacle for the powdered material, means for generating a fluid current in and through said receptacle, a fluid inlet to and a fluid outlet from the receptacle, and means on the receptacle for carrying the material, said carrying means traversing an endless path surrounding the course of the fluid current, whereby the material is taken from a position below the said current carried around and above the same and dropped thereinto.

1,686,257. LAMP SOCKET. ANDREW SANDBERG, Seattle, Wash. Filed Aug. 8, 1927. Serial No. 211,277. 2 Claims. (Cl. 173—328.)



1. The combination with a lamp socket of a holder comprising a base ring within the socket, attaching arms on said base ring and means for securing the arms to a portion of the socket, clamp arms of resilient metal carried by the base ring, said arms tapering inwardly, and compressible hook members at the free ends of said arms.

1,686,258. KNITTED CAP. IKE SCHLESINGER, East Orange, N. J. Filed Jan. 21, 1927. Serial No. 162,462. 10 Claims. (Cl. 2—172.)

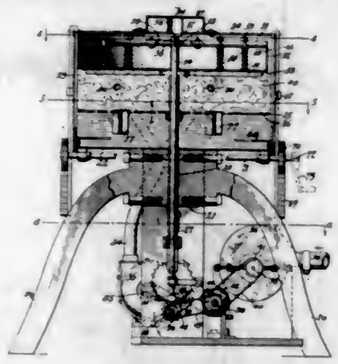


1. In a cap, the combination of a crown member, a band extending thereabout, said band being cut, and means including a hookless fastener to secure edge portions of said cut for retaining the band in position on the crown member, a portion of said band being movable into desired predetermined position when said fastener is opened.

1,686,259. WASHING MACHINE. SALVATORE SEDITA, Buffalo, N. Y. Filed July 12, 1927. Serial No. 205,139. 8 Claims. (Cl. 68—37.)

1. A washing machine comprising a tub adapted to contain water and the clothes to be washed, a vertically reciprocating lifter arranged in the lower part of the tub and adapted to raise and lower the clothes, a head which is arranged in the upper part of the tub and against which the clothes are adapted to be pressed by the lifter, and means for oscillating said head about a vertical axis including an upright rock shaft connected at its upper

end with said head and provided at its lower end with two rock arms projecting from diametrically opposite sides thereof, and a rotary shaft arranged horizontally below

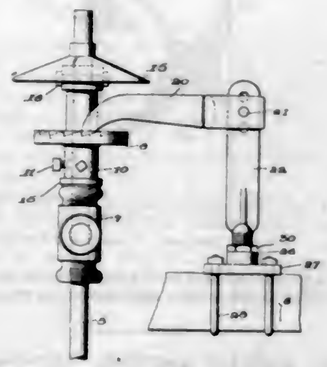


said upright shaft and provided on its diametrically opposite sides with tappets adapted to engage alternately with the rock arms of said upright shaft.

1,686,260. CONTACT RECTIFYING DEVICE. WALTER O. SNELLING, Allentown, Pa. Filed July 29, 1927. Serial No. 209,403. 1 Claim. (Cl. 250—31.)

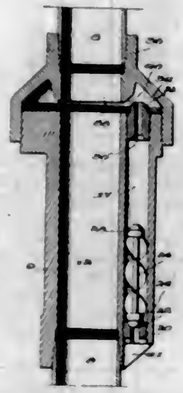
The process of treating current rectifying materials which comprises applying pressure to a finely divided compound of a metal with an element of the sulfur group until a coherent mass results and thereafter heating the resulting coherent product at a temperature sufficient to produce partial crystal growth, but lower than a sintering temperature.

1,686,261. POLISHED-ROD ROTATOR. ALEXANDER BOYNTON, San Antonio, Tex. Filed June 19, 1926. Serial No. 117,196. 2 Claims. (Cl. 255—14.)



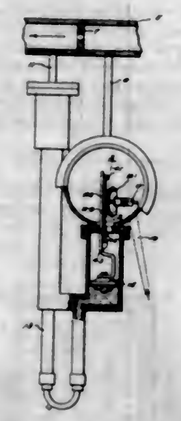
1. A polished rod rotor comprising an attaching member having beam engaging means, an upright actuating arm threadedly and adjustably connected to said attaching member, a locking device securing said upright arm in an adjusted position, a pawl adjustably connected to said arm, and a ratchet wheel having radial teeth engaged by said pawl, the adjustable threaded connection between said arm and base forming a means whereby the pawl may be adjusted radially on said wheel.

1,686,262. STAGE-LIFT FLOWING DEVICE. ALEXANDER BOYNTON, San Antonio, Tex. Filed Dec. 10, 1926. Serial No. 153,948. 3 Claims. (Cl. 103—233.)



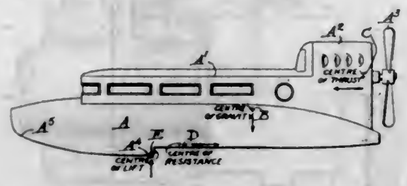
1. An induction valve for well pumps comprising a cylindrical body having a pair of sections, one of which has a depending flange and a flared portion cooperating in the formation of an annular chamber, there being means whereby said flared portion and the other section may be detachably connected, the other of said sections having a valve chamber, inlet and outlet valve seats detachably secured in the ends of the valve chamber and having fluid passages, and a valve between said seats.

1,686,263. MEASURING INSTRUMENT. EDGAR H. BRISTOL, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Apr. 22, 1926. Serial No. 103,792. 9 Claims. (Cl. 74—14.)



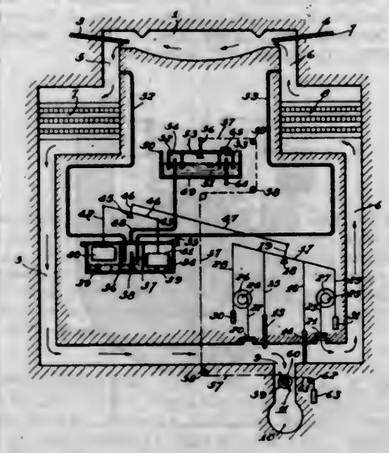
4. In an instrument wherein a member is moved responsively to the fluctuations of a variable means for transmitting said movement proportionately to a driven device comprising an oscillating sector and a cooperating reciprocating element, a pair of wrapping connectors secured adjacent one side of the sector, an equalizer bar pivoted to said element, said connectors secured to the sides of said bar, and a third wrapping connector between the two and including a tension spring, said connector secured adjacent the opposite side of the sector extending in the opposite direction and secured to said element, said connectors comprising wire chains having generally U-shaped links with arms terminally looped about the cross-bars of adjacent links and said sector having ridges received between the looped portions and making contact with the cross-bars.

1,686,264. AERIALLY-PROPELLED SPEED BOAT. HENRY LOWE BROWNBACK, Norristown, Pa., assignor to Brownback Motor Laboratories, Inc., New York, N. Y., a Corporation of New York. Filed July 21, 1925. Serial No. 45,023. 6 Claims. (Cl. 114—66.5.)



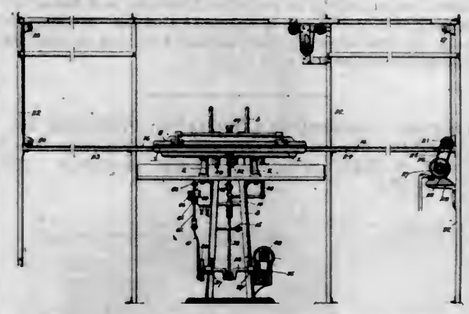
1. A boat of the character specified comprising a hull so designed that its center of gravity is disposed in rear of the mid-section of the hull, the center of resistance being disposed forward of the center of gravity, and the center of lift being disposed forward of the center of resistance; and means above the center of gravity for propelling the boat, the center of thrust thereof being disposed above and in rear of the center of gravity; whereby any change in the propelling thrust will shift the centers of lift and resistance to maintain a balance of forces during acceleration; and whereby the rear portion of the bottom of the hull will skim the surface of the water when at speed.

1,686,265. DRAFT-CONTROL SYSTEM. WILLARD P. CHANDLER, Jr., Pittsburgh, Pa. Filed July 11, 1927. Serial No. 204,682. 9 Claims. (Cl. 236—15.)



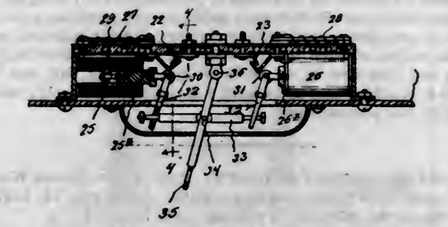
1. The combination with a regenerative heating furnace, a plurality of regenerators, flues leading from said furnace and extending one through each of said regenerators, and means for rendering in alteration each of said flues effective for the flow of products of combustion from the furnace through one of the regenerators; of means acting on said flues at the outlet sides of the regenerators for inducing draft through the furnace and flues, and mechanism for automatically regulating said draft-inducing means to vary its effectiveness in inverse relationship with the pressure in the regenerator inlet side of each flue when products of combustion flow through the flue.

1,686,266. PRESSING MACHINE. HYMAN ELIAS COHEN, New York, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware. Filed July 24, 1923. Serial No. 653,602. 8 Claims. (Cl. 68—9.)



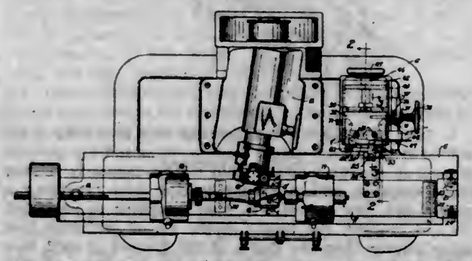
1. In combination with cooperative pressing elements; an endless belt, one run whereof passes between said elements and to each side of the same; a motor for moving the belt; a second motor for opening and closing the press; switch mechanism operable to close the circuits of the motors in alternation; and means under the control of the operator for arresting the switch mechanism in open position.

1,686,267. MOTOR-VEHICLE SIGNAL MEANS. HARVEY CURNICK and ELSIE D. SPECHT, Minneapolis, Minn. Filed Apr. 7, 1926, Serial No. 100,344. Renewed June 21, 1928. 2 Claims. (Cl. 200—100.)



1. An electrical organization for motor vehicles, comprising alined solenoids, the armatures of said solenoids being equipped with anti-friction rollers, levers connected with said armatures, a hand lever, a connection between the hand lever and the first-named levers, terminals, and other terminals movable by the anti-friction rollers of the armatures into engagement with the first-named terminals and this alternately.

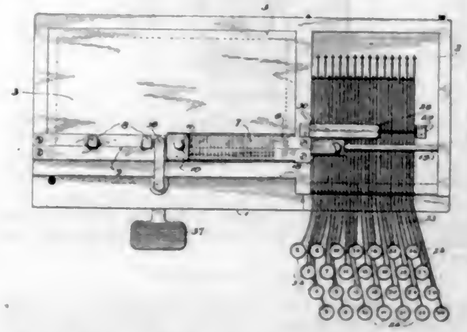
1,686,268. TABLE-CONTROL MECHANISM. GERARD A. DE VLIEG, Rockford, Ill. Original application filed Dec. 17, 1924, Serial No. 756,418. Divided and this application filed Oct. 22, 1926. Serial No. 143,344. 10 Claims. (Cl. 51—50.)



1. A control mechanism having, in combination with a support mounted for reciprocatory and pivotal movement,

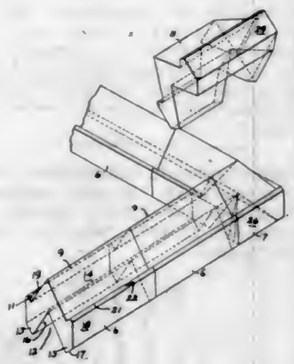
a cam for controlling the movement of said support during reciprocation in one direction, a second cam adapted to be moved into operative position at the end of said reciprocation to hold said support out of engagement with said first mentioned cam and control the movement of said support during reciprocation in the other direction, and means for holding said second cam in operative position, said support being adapted to release said means at the end of said last mentioned reciprocation.

1,686,269. SELECTIVELY-OPERATED PUNCHING MACHINE. FRED L. DUNLAP, Jefferson City, Mo. Filed Nov. 8, 1927. Serial No. 231,929. 5 Claims. (Cl. 164—07.)



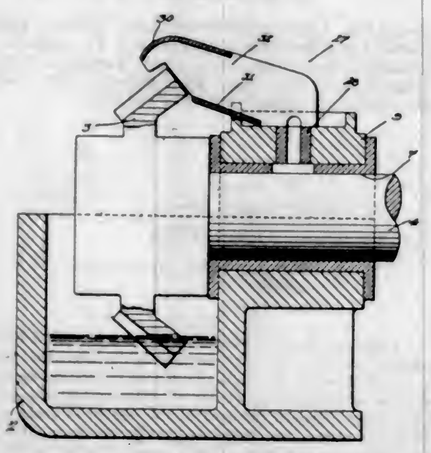
1. A card punching machine comprising a casing like body, a plurality of individually operable key carrying bars pivotally mounted thereon, a guide bar for retaining a card to be punched, a card setting carriage slidably mounted on the casing adapted to be checked in its sliding movement in one direction by an actuated key carrying bar, and a card punching means on said casing cooperable with said guide bar and carriage.

1,686,270. BUILDING BLOCK. CARL A. DWYER and WILLIAM A. WHEELER, Oakland, Calif. Filed Jan. 11, 1927. Serial No. 160,332. 4 Claims. (Cl. 72—38.)



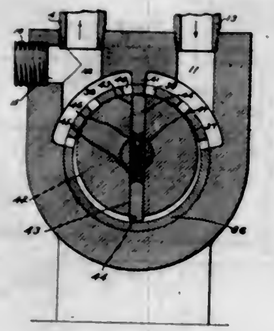
1. In a building block, a bearing face providing a rib defined by angularly related plane surfaces and like grooves defined at opposite sides of said rib by angularly related plane surfaces, and a second bearing face providing a groove and ribs respectively complementary to said first rib and grooves, the height of the rib of said first face being greater than the depth of the grooves of said face with respect to a plane defined by the top edges of said grooves.

1,686,271. JOURNAL LUBRICATOR. JEROME R. GEORGE and EDWARD J. QUINN, Worcester, Mass., assignors to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 19, 1926. Serial No. 149,465. 3 Claims. (Cl. 184—11.)



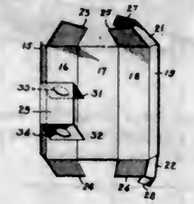
1. In a device for collecting lubricant tangentially thrown from a rotating member, a portion overhanging said rotating member and in the path of the flying lubricant, an inclined portion adapted to carry the collected lubricant by gravity to a journal, and a vertical flange connecting said portions, to take the impact of the lubricant.

1,686,272. ROTARY PUMP. GEORGE E. GOODRIDGE, Reading, Mass., assignor, by mesne assignments, to Arthur H. Ballard, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed July 7, 1926. Serial No. 120,952. 11 Claims. (Cl. 103—137.)



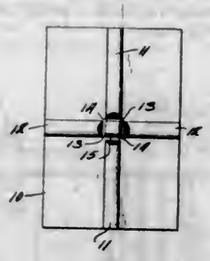
1. A rotary fluid pump comprising a casing having a substantially cylindrical chamber therein, a rotor mounted eccentrically of said chamber, one or more pairs of diametrically opposite radial slots in said rotor, blades in said slots, transverse bores connecting said slots and expansible members in said bores and exerting an upward pressure on said opposite blades, each of said expansible members comprising a cup member having a compressible member therein and a plug member having a part fitting into said cup member and resting against said compressible member.

1,686,273. LAMP WRAPPER. FRANKLIN S. GOODSPEED, New York, N. Y., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Dec. 1, 1925. Serial No. 72,463. 7 Claims. (Cl. 229—37.)



1. A lamp wrapper comprising a sheet of material including four side walls, an extended portion on one end of said sheet, apertured extensions on opposite sides of said portion bendable to constitute platforms for lamps, said sheet being foldable about said platforms to constitute a container for lamps.

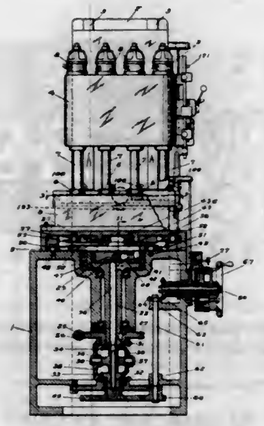
1,686,274. EXPANSIBLE AND RETRACTABLE ROOFING SHEET. OLIVER P. GREENSTREET, Owensville, Mo. Filed July 17, 1926. Serial No. 123,209. 1 Claim. (Cl. 108—17.)



A metallic shingle consisting of a sheet provided at an intermediate point with an upstanding hump, said sheet having corrugations formed therein and which are radially disposed with relation to the hump, said corrugations having their inner ends spaced from the hump and said corrugations having their outer ends terminating at the edges of the sheet.

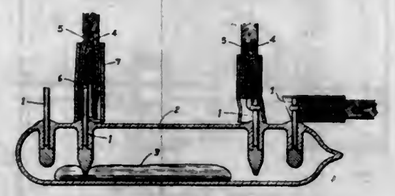
1,686,275. GRINDING MACHINE. RICHARD A. HEALD and WALDO J. GUILD, Worcester, Mass., assignors to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 19, 1927. Serial No. 169,510. 4 Claims. (Cl. 51—48.)

1. In a grinding machine, a plurality of grinding wheels whose axes are parallel, workholding means adapted to hold work engageable at separate individual places by each of the grinding wheels, means for producing such an orbital movement of the workholder as to cause an equal individual orbital movement of each grinding wheel-engaging position of the work about its grinding wheel, and for varying the radius of the common orbit of the workholder and thereby equally varying each individual orbit, and a dressing tool for each grinding wheel, said tools being so arranged that the axes of all the individual orbits are equally spaced in the same direction each from the dressing tool for its grinding wheel whereby, due to the equal variation of radius of all the orbits, the relation of all the points of contact of the work with the grinding



wheel to the points of engagement of the dressing tools with the grinding wheels will remain each equal to every other, regardless of such variation of radius of the orbit.

1,686,276. ELECTRICAL CONNECTION. KARL HUNCIKER, Chicago, Ill. Filed Aug. 29, 1927. Serial No. 216,078. 4 Claims. (Cl. 173—324.)



1. An electrical connection between a flexible lead composed of a plurality of fine wires braided together to form a tube and a lead-in wire sealed in a glass wall and projecting thereabove, comprising a connecting link having one end received within and soldered to the tubular lead and the projecting end thereof engaging and soldered to the projecting part of the lead-in wire.

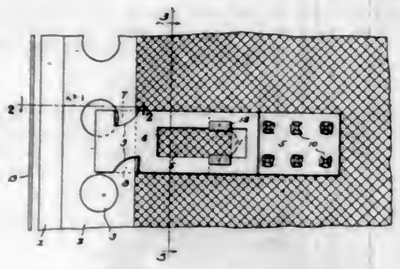
1,686,277. METALLIC COMPOSITION AND PROCESS FOR MAKING THE SAME. WILBUR H. JUDY, Buffalo, N. Y., assignor to Sumet Corporation, Buffalo, N. Y., a Corporation of New York. Filed Aug. 9, 1923. Serial No. 656,522. 6 Claims. (Cl. 75—1.)

4. The method of purifying lead which consists in introducing hydrogen to the exclusion of oxygen into the mass of metal when such metal is in a molten condition.

1,686,278. CLIP FOR BEADING CONSTRUCTION. ROGER KAUFFMAN, Lansdowne, Pa. Filed Sept. 10, 1927. Serial No. 218,704. 3 Claims. (Cl. 72—121.)

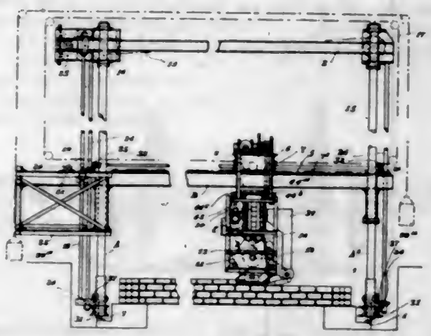
1. In a clip for securing corner beading strips formed with spaced opening, and in respect to a plaster lathing comprising a pair of sections slidably connected together,

a lug formed at one end of one of the sections adapted for engagement with the beading strips through one of the openings therein, and the opposite section adapted to be



secured to the plaster lathing, and construction associated with said section for locking the same against slidable relation.

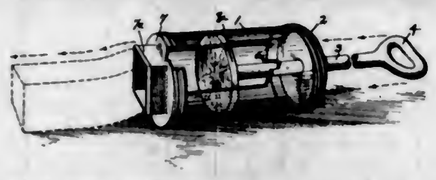
1,686,279. MACHINE FOR ERECTING WALLS OF BRICK AND THE LIKE. STEWART KAYE, Edinburgh, Scotland. Filed Feb. 2, 1924, Serial No. 690,160, and in Great Britain Feb. 19, 1923. 12 Claims. (Cl. 72—129.)



1. A machine for erecting walls of brick and the like comprising in combination upright structures, a cross member extending between and joining said upright structures, said member being adapted to straddle two parallel walls being built, brick laying mechanism carried by and adapted to travel on said cross member, and means whereby the brick laying mechanism may be traversed to lay a course of brick on each of four rectangular walls or cross walls in succession.

1,686,280. MIXER FOR MARGARINE AND THE LIKE. GRAYDON M. KELLER, Los Angeles, Calif., assignor of one-third to William R. Litzenberg, Los Angeles, Calif. Filed May 25, 1927. Serial No. 194,030. 2 Claims. (Cl. 31—35.)

2. In a mixer, a cylindrical body open at both ends, a closure member for one end with a plunger rod operable therethrough, a mixer on the inner end of said plunger rod, a disc having an annular flange around its edge and adapted to fit over said mixer within said cylindrical body, said annular flange being provided with attaching means to be detachably secured to said mixer, whereby to secure said disc with a turning movement to said mixer, and a closure for the other end of said body, said latter closure member

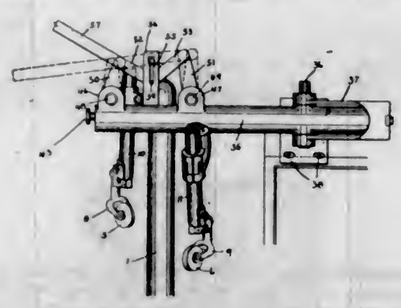


having a mouth extension from the outer face of said closure member to give form to material discharged from said body, substantially as described.

1,686,281. PROCESS OF PRODUCING METAL GLUTINS AND PRODUCT THEREOF. KARL KÖTTEL, Vienna, Austria, assignor, by direct and mesne assignments, of one-fourth to Ernst J. Watzl, Cleveland, Ohio, and one-fourth to Herman J. Trenkamp, Cleveland Heights, Ohio. Filed Aug. 7, 1925. Serial No. 48,915. 8 Claims. (Cl. 260—9.)

1. A process of producing metal glutins as a chemical combination, consisting in alkalizing glutin by adding only such a quantity of alkali as is required to transform all the glutin into saturated alkali metal glutin and subsequently adding an insoluble glutinate-forming type of metallic salt.

1,686,282. TIRE-BUILDING MACHINE. PAUL W. LEHMAN, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 19, 1926. Serial No. 110,148. 12 Claims. (Cl. 154—10.)

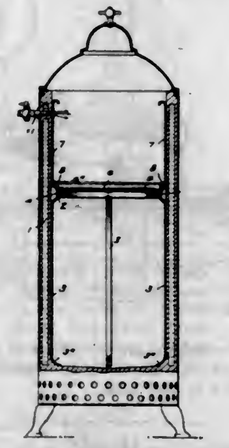


1. A device of the character described, comprising a bead applying roll adapted to be positioned adjacent a rotatable tire building form, holding means to position the end of a strip of bead material between the roll and the form and means to move the roll toward the form to press the end of the bead strip against a tire carcass supported on the form and apply the bead material in desired position on the carcass as the form is rotated.

1,686,283. COFFEE URN. KARL LEVI, Minneapolis, Minn. Filed Dec. 23, 1927. Serial No. 242,189. 5 Claims. (Cl. 53—3.)

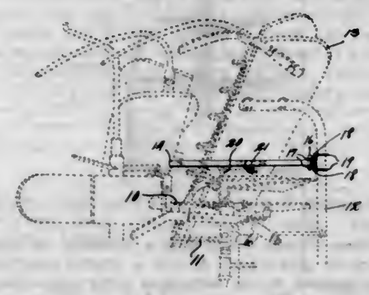
1. In a coffee urn, an annulus of smaller diameter than the urn chamber and spaced from the walls thereof, offset depending legs carried by said annulus and flatly engaging the walls of the chamber to space the annulus therefrom, the lower ends of said legs engaging the bottom of the chamber to maintain the annulus at a predetermined height, a perforated plate removably supported upon said annulus, said plate having a marginal upwardly and outwardly inclined circumferential flange engaging the chamber wall to

act as a seal and divert liquid from the chamber wall onto the plate, said flange serving to confine a coffee bag to entirely cover said plate to provide a uniform layer of coffee at all points thereon, upwardly extending handles carried



by said plate flange and secured to the inner surface thereof, and said handles extending to a point adjacent the top of the urn and contacting with the side walls of the urn chamber.

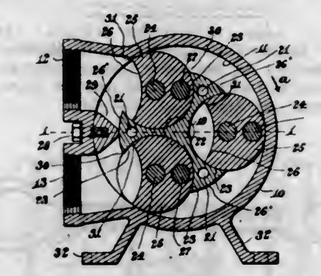
1,686,284. ATTACHMENT FOR CORN BINDERS. HOWARD F. LYMAN, Mitchell, S. Dak., assignor of one-half to Albert T. Lyman, Mount Vernon, S. Dak. Filed Sept. 8, 1926. Serial No. 134,203. 1 Claim. (Cl. 56—67.)



A supplemental trip attachment for a corn binder having a trip hook mounted for swinging movement upon a vertical axis, comprising a hinge support adapted to be applied to the frame of the binder at a point spaced from the axis of the trip hook, an arm pivoted at one end to the hinge member and arranged to swing in a plane transversely across the axis of the trip hook, a spring connected at one end with the arm at a point between the pivoted end thereof and the axis of the trip hook, and being connected at its other end with the frame of the binder at a point in advance of the axis of the trip hook, said spring normally holding the free end portion of the arm substantially in the vertical plane of the trip hook.

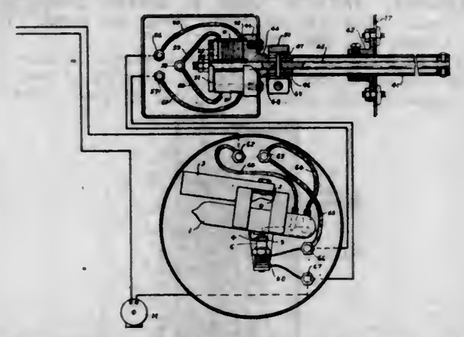
1,686,285. ROTARY PUMP. MAX C. MASON, Boston, Mass. Filed Sept. 9, 1926. Serial No. 134,552. 9 Claims. (Cl. 103—148.)

1. The combination of a casing having permanently closed immovable ends between which is a cylindrical chamber with inlet and outlet ports and a projection between said ports extending into said chamber from the cylindrical wall of said casing; a block rotatable in said chamber provided with peripheral pockets between which the peripheral wall is cylindrical and adapted to contact with the inner end of said projection; blades each having a



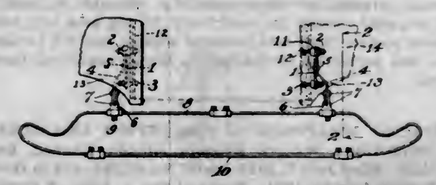
convex portion contacting with the wall of each pocket and normally projecting beyond the same into contact with the cylindrical wall of said chamber, each blade having a concaved peripheral recess; and means within said chamber for retaining said recess toward said projection during the entire rotation of said block.

1,686,286. TEMPERATURE-ACTUATED ELECTRIC CONTROL DEVICE. IRA E. MCCABE, Chicago, Ill. Filed Nov. 3, 1925. Serial No. 66,518. 8 Claims. (Cl. 200—122.)



1. In a temperature actuated electric control device including an electric switch, means normally acting to hold the switch in open position, detachable means for holding the switch in closed position releasable by heat generated by the electric current, and a temperature actuated compression means for varying the current passing through said heat generated means.

1,686,287. BUMPER BRACKET. ARTHUR J. MCCOOK, Stratford, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Mar. 8, 1927. Serial No. 173,626. 4 Claims. (Cl. 293—55.)



1. A bumper bracket for automobiles of the type described in which the spring and horn at the end of a frame member are masked by an upright pan, said bracket com-

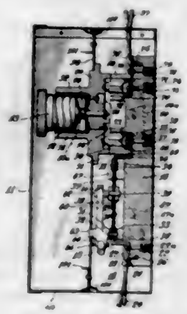
prising a bumper-supporting part having means to hold a bumper bar, and an attachment part adapted to be secured adjustably and firmly to said horn by bolts passing through existing holes in said horn beneath said pan, said parts being connected by a portion offset to clear said pan.

1,686,288. ROPE SLING. CASPER D. MEALS, Nutley, N. J., assignor to American Cable Company, Inc., a Corporation of Delaware. Filed Aug. 25, 1927. Serial No. 215,389. 6 Claims. (Cl. 294—74.)



1. A sling of the type described, said sling comprising a pair of thimbles and a single flexible member, each end of which is secured to a thimble, the intermediate portion of said member being carried around each of said thimbles thereby forming a plurality of stretches of said flexible member extending between said thimbles whereby when tension is placed upon said sling it is equalized among said stretches.

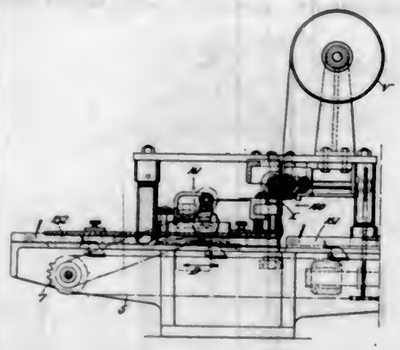
1,686,289. SWITCH. JOHN B. MILANO, Torrington, Conn. Filed Mar. 30, 1925. Serial No. 19,393. 12 Claims. (Cl. 200—114.)



4. In a switch box, a switch comprising a pair of horizontally movable contacts and a pair of stationary contacts, means for connecting said movable contacts to the main line conductors, each of said stationary contacts being connected to an upstanding socket, a pair of terminal sockets spaced from said first mentioned sockets, and a fuse-holding block having four depending metallic prongs arranged at the corners of a rectangle adapted to fit into said sockets for electrically joining said first mentioned sockets with said terminal sockets and for furnishing fuse protection to the branch circuit connected therewith.

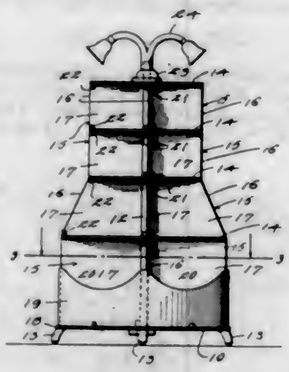
1,686,290. WRAPPING OF CIGARETTES AND OTHER ARTICLES. WALTER EVERETT MOLINS, London, England. Filed July 7, 1925, Serial No. 42,084, and in Great Britain July 10, 1924. Renewed Aug. 1, 1928. 7 Claims. (Cl. 93—4.)

2. An apparatus for packing cigarettes and other articles in a series of wrappers which comprises a forwardly moving conveyor adapted to move batches of articles simultaneously in rapid succession into engagement with



two or more wrapping strips, means to feed said strips across the path of each batch in separate planes transversely disposed to said path.

1,686,291. STORE FIXTURE. JACOB P. MOORE, McAllen, Tex. Filed Jan. 7, 1928. Serial No. 245,184. 3 Claims. (Cl. 211—144.)



3. A store fixture comprising a plurality of stacked shelf forming plates each having a central aperture, a standard secured in the lowermost plate and extending upwardly through the apertures of the remaining plates, V-shaped partition plates arranged between adjacent shelf forming plates and having the apices thereof abutting the standard, and means at the upper end of the standard for forcing the shelf forming plates longitudinally of the standard to thereby clamp them upon the partition forming plates, each shelf having upon each face thereof adjacent to the edge of the opening a lug for each of the associated partition plates and adapted to engage in the re-entrant angle of the plate, each shelf being further provided adjacent its periphery upon its upper and lower faces with spaced lugs adapted to engage the outer faces of the arms of the partition forming plates to prevent oscillatory movement of the plates.

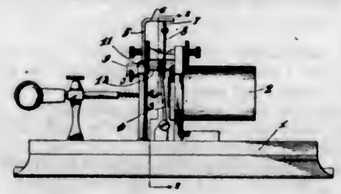
1,686,292. SHOE. GEORGE E. MUSERECK, Milwaukee, Wis., assignor, by mesne assignments, to William A. Edmonds, Milwaukee, Wis. Filed Jan. 29, 1923. Serial No. 615,640. 2 Claims. (Cl. 36—17.)

1. In a shoe, an insole shaped to a last to have its upper surface correspond with the curvatures of the bottom of the last, an upper and a welt stitched thereto, said insole being reduced and flattened at its lower surface beneath the high spot of the last corresponding with the ball of



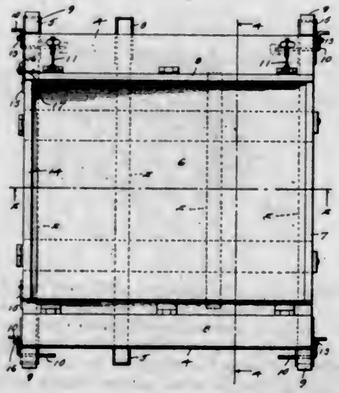
the foot, and a sole member fitted thereto and stitched to the welt with the flat surface of the insole directly bearing thereon.

1,686,293. TELEGRAPH INDICATOR. SHERMAN G. NYE, Colorado Springs, Colo., assignor of one-half to D. B. Simon and one-fourth to Amelia Mann, William Mann, Helen Mann, and Freda Mann, Denver, Colo. Filed Dec. 15, 1921, Serial No. 522,641. Renewed Feb. 23, 1928. 2 Claims. (Cl. 177—311.)



1. In combination with a relay, a standard at one end thereof, an angular member one end of which is adjustable within the standard and the other end of which projects at right angles thereto, a ring arranged a substantial distance from said standard in parallel relation to said last named end of said angular member and carried by a rod the opposite end of which is supported by said standard, thus enabling said ring to act as a sounding ring, and a leaf detector supported by said angular member and disposed within said ring, whereby the vibrations of said detector causes the same to impinge against the ring and the sounds formed thereby to be clarified and amplified.

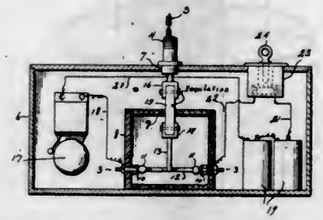
1,686,294. VEHICLE BED. ARTHUR F. RODEKOHR, Battle Creek, Nebr. Filed Aug. 25, 1927. Serial No. 215,481. 4 Claims. (Cl. 296—10.)



3. A vehicle bed comprising sills provided with recesses, flooring mounted upon the upper edges of the sills,

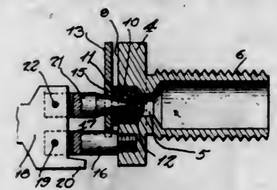
side pieces fitted in the recesses and lying in a plane below the plane of the flooring, panels hinged at the edges of the flooring and adapted to swing over the side pieces with their upper surfaces lying in a plane alined with the upper surface of the flooring.

1,686,295. ALARM DEVICE. JOSEPH D. SCHULTZ, Mount Clemens, Mich. Filed Feb. 5, 1924. Serial No. 690,811. 1 Claim. (Cl. 200—26.)



A circuit closer for vehicles comprising a casing of insulating material, a single pair of contacts located within said casing at opposite sides thereof and having threaded stems extending therethrough and carrying binding nuts for connection of conductors therewith, a rotary member journaled through one side of the casing between those sides equipped with said contacts, means for continuously rotating the rotary member during operation of the vehicle, resilient arms projecting laterally in opposite directions from said rotary member, and fly balls on the ends of said resilient arms into the path of which the contacts extend.

1,686,296. AUTOMATIC WATER-CONTROL VALVE. JOHN L. SKUTTLE, Mason City, Iowa. Filed Dec. 12, 1927. Serial No. 239,414. 3 Claims. (Cl. 137—104.)



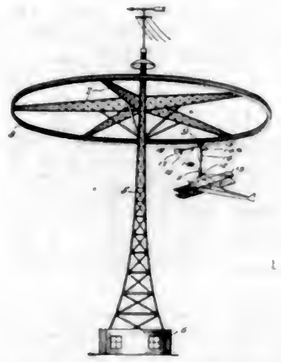
2. In automatic water control of the character described, a valve casing head having a passage formed with a valve opening on the exterior surface of said head, a post projecting from said head, a plate pivoted to said post for vertical movement in its own plane, a float rod secured to said plate, a float on said rod, a valve plunger pivoted to said plate, a finger projecting from said plate adjacent said post to limit its downward movement about its pivot, a removable valve seat set into the valve opening, and a retaining plate for the removable seat.

1,686,297. WINDOW-SHADE PULL-CORD CLIP. ERNEST L. TRIMBLE, Philadelphia, Pa. Filed July 6, 1925. Serial No. 41,556. 1 Claim. (Cl. 156—40.)



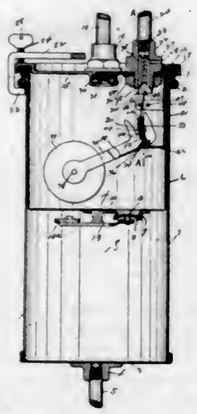
A clip of U-cross section provided with grooves in a leg of the U, and spring strips secured within the grooves.

1,686,298. AIR OR SEAPLANE STATION. GEORGE A. UHL, San Antonio, Tex., assignor of one-third to George E. Ginter and one-third to Phelps & Dewees, a Firm composed of Raymond Phelps and George Dahl Dewees, San Antonio, Tex. Filed Sept. 10, 1927. Serial No. 218,660. 5 Claims. (Cl. 244—2.)



1. An air or seaplane station comprising a tower, a plurality of arms rigidly secured to and radiating from the upper end of said tower, a continuous annular track supported rigidly by the outer ends of said arms, a carriage movable along said track, and a grapple hung from said carriage for engagement by another grapple member on the plane.

1,686,299. VACUUM FUEL-FEEDING DEVICE FOR INTERNAL-COMBUSTION ENGINES. THOMAS VEITCH, Bradley Beach, N. J., assignor, by direct and mesne assignments, of forty per cent to Paul M. Abrahams and twenty per cent to Israel G. Cass, New York, N. Y. Filed June 27, 1925. Serial No. 39,893. 12 Claims. (Cl. 103—236.)



1. In a vacuum fuel feed apparatus comprising a suction chamber, a valve seat having a V-shape, a port in each side of the V and a wedge-shaped valve rocking within said V, and toggle means for holding said valve against said seat to retain said valve against one or the other of said ports.

1,686,300. BELT CLAMP. EDWIN VOLLRATH, Easton, Pa. Filed Oct. 7, 1926. Serial No. 140,042. 1 Claim. (Cl. 24—37.)

A belt end clamp comprising a pair of opposed clamp members having outwardly curved flanges to contact with the belt and longitudinally undulated inner faces, means for compressing the belt ends between said members comprising bolts with nuts to draw said members together, a

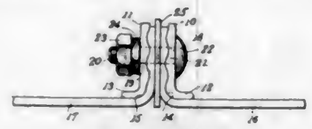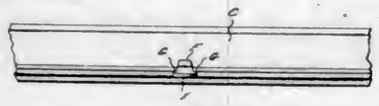


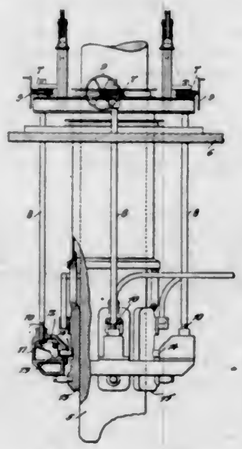
plate perforated to receive the bolts and positioned between the said belt ends whereby the said belt ends are held against relative movement.

1,686,301. DEMOUNTABLE RIM AND MEANS FOR FASTENING SAME. JAMES H. WAGENHORST, Jackson, Mich. Filed May 28, 1921. Serial No. 473,539. 7 Claims. (Cl. 301—24.)



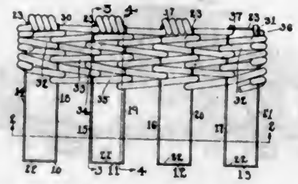
5. The combination with a fixed rim, of bolts passing therethrough, a demountable tire carrying rim having an inwardly projecting portion, said inwardly projecting portion being recessed opposite the bolts, clamps arranged upon said bolts and nuts for engaging said clamps, said clamp having a portion adapted to fit into the recessed portion of the fixed rim and also a portion adapted to bear laterally upon said inwardly projecting portion.

1,686,302. DISTANCE HANDLING OF ELECTRODES. MARTIN WALTHER, Oslo, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Filed Nov. 4, 1925, Serial No. 66,794, and in Norway Nov. 7, 1924. 5 Claims. (Cl. 266—1.5.)



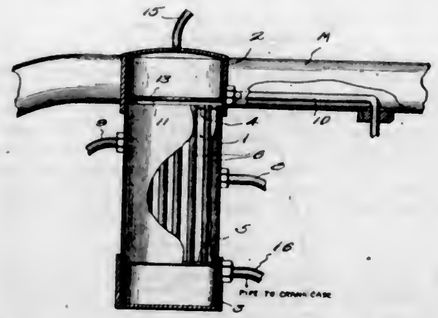
1. Arrangement for handling of selfbaking electrodes for electric furnaces comprising a tamping room arranged above the furnace and protected from the heat of the latter, a holder for the electrode, holder engaging means located below the room and adjacent the holder, a movable shaft extending into the room, means located in the room for actuating such shaft, and means operable by the shaft for actuating said holder engaging means.

1,686,303. MAT. WILLIAM M. WATTIE, Worcester, Mass. Original application filed May 25, 1923, Serial No. 641,503. Divided and this application filed Aug. 21, 1924. Serial No. 733,448. 7 Claims. (Cl. 15—215.)



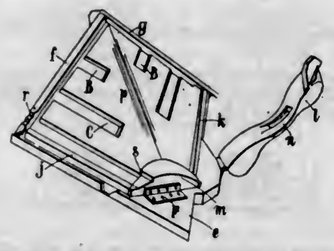
2. A mat composed of a plurality of separate spaced substantially rigid frames held together by strands of flexible material which are secured to the outer side of one of the frames, passed thereunder and looped around the end of said frame and over the other side thereof and under the side of the adjacent frame, looped around the end of said last mentioned frame and under and around the other side of said frame.

1,686,304. OIL CLEANER FOR AUTOMOBILE ENGINES. JAMES F. WELLS, St. Louis Mo. Filed Nov. 26, 1924. Serial No. 752,473. Renewed Aug. 10, 1928. 7 Claims. (Cl. 184—6.)



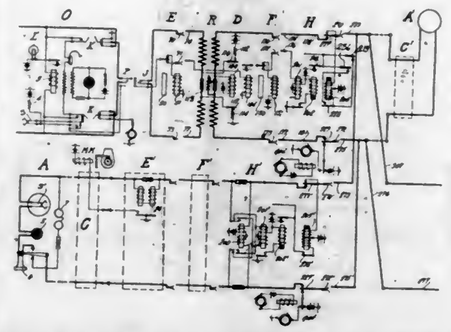
1. An oil cleaning attachment for an internal combustion engine consisting of an intermediate chamber, an upper chamber, a lower chamber, cooling means in the intermediate chamber, distributing means in the upper chamber, means for heating the oil and feeding it to the upper chamber to the distributing means, and means for leading the oil from the bottom chamber back to the crank case of the engine.

1,686,305. MOLD FOR MAKING ROOFING TILES. JOHN LACEY WEST, Abingdon, Berks, England. Filed Aug. 22, 1927, Serial No. 214,771, and in Great Britain Aug. 28, 1926. 3 Claims. (Cl. 25—43.)



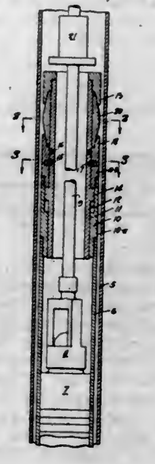
1. A mold for forming interlocking valley tiles comprising a hinged frame and a ridged pallet.

1,686,306. AUTOMATIC TELEPHONE SYSTEM. BERNARD D. WILLIS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed May 25, 1922, Serial No. 563,466. Renewed Dec. 18, 1926. 18 Claims. (Cl. 179—9.)



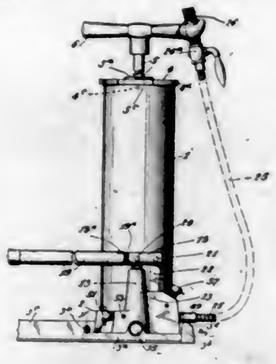
11. In a telephone system, a calling line, a meter, a called line, an operator's position, means for extending a call from said calling line to said called line either exclusive of any operator's position or via said position, and means for operating said meter when a call extended from said calling line to said called line over either route is answered by the called subscriber.

1,686,307. PUMP PACKER. JOHN A. YERKES and REES H. LEMMON, Long Beach, Calif. Filed Jan. 22, 1927. Serial No. 162,712. 2 Claims. (Cl. 103—225.)



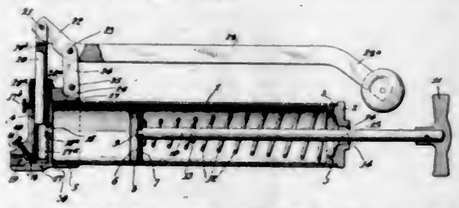
1. In a packer for well pumps, a pump barrel, a mandrel sleeve secured to the barrel of said pump, said sleeve having an annular space in the wall of the bore thereof with shoulders at the ends thereof, a mandrel slidable within said sleeve and having a cap, there being an abutment on said mandrel adapted to engage either of said shoulders, packing means mounted on said mandrel between said mandrel sleeve and said cap, said mandrel sleeve and said cap each having annular lips to embrace a portion of said packing, and means to force said mandrel through said sleeve to expand said packing.

1,686,308. GREASE PUMP. CHARLES L. ZABRISKIE, New York, N. Y., assignor, by mesne assignments, to Rogers Products Co., Inc., a Corporation of New Jersey. Filed Dec. 11, 1925. Serial No. 74,680. 17 Claims. (Cl. 221—47.1.)



1. A grease pump, including a small area plunger, power multiplying means for reciprocating it and a cylinder provided with an inlet with check valve, means for supplying grease under pressure to said inlet, an outlet with check valve and an outlet conduit with an outer coupling for grease-tight connection with a lubricating duct, in combination with an emergency relief valve adapted to vent pressure at a point between the outlet check valve and said coupling; a priming vent valve adapted to vent the pump cylinder at a point between the inlet check valve and the pump plunger.

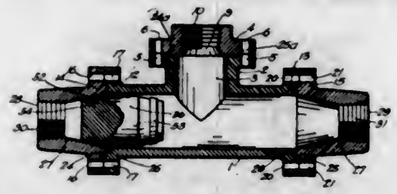
1,686,309. LUBRICATING DEVICE. CHARLES L. ZABRISKIE, New York, N. Y., assignor, by mesne assignments, to Rogers Products Co., Inc., a Corporation of New Jersey. Filed Apr. 13, 1926. Serial No. 101,652. 8 Claims. (Cl. 221—47.3.)



1. A grease gun, including reservoir, a force pump having main piston and cylinder elements, and means for relatively reciprocating them, in combination with a transferable piston and cylinder element of substantial cross-sectional area with a surface axially slidable along a corresponding surface of the piston element and having one end extending beyond one end of said main cylinder; means for locking said exterior end of said transferable element to function as effective cross-sectional area, with the piston element, and other means extending through the cylinder wall for locking it to function with the cylinder element.

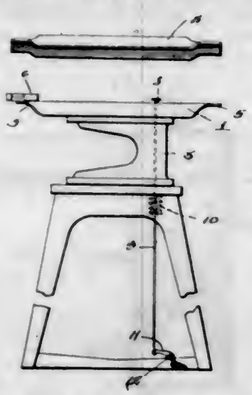
1,686,310. SLUSH-PUMP MANIFOLD. EDWARD M. BEEBE, Cushing, Okla. Filed Apr. 14, 1928. Serial No. 270,080. 6 Claims. (Cl. 251—118.)

1. A slush pump double plug valve of the class described, comprising a barrel-shaped member having a central cylindrical portion, and having a portion between each of its ends and said central cylindrical portion oppositely tapered, each of said tapered portions having a channel therearound for receiving hydraulic packing for respectively seating removably in valve seats, hydraulic packing suitably fitting said channels and co-operating with said valve-seats, flanged valve seats being adapted to co-operate with a manifold, and to fit one at a time the tupering



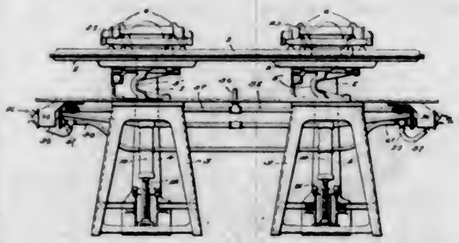
ends of said valve, said valve being adapted for longitudinal movement in said manifold and for closing the bore in one of said valve seats and permitting the other to remain open.

1,686,311. SHIRT-PRESSING MACHINE (TAIL HOLDER). PHILIP N. BRAUN, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 14, 1926. Serial No. 102,002. 6 Claims. (Cl. 68—9.)



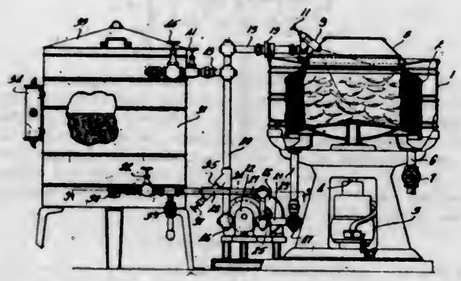
1. In a shirt pressing machine, the combination of a buck on which the shirt is arranged, a neck band holder, clamping means for engaging the front edges of the shirt and holding the front edges stretched on the buck, said means including a member arranged over the buck and movable toward and from the buck and means for operating the clamping member extending through the buck.

1,686,312. PRESSING APPARATUS. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 14, 1927. Serial No. 161,091. 4 Claims. (Cl. 68—9.)



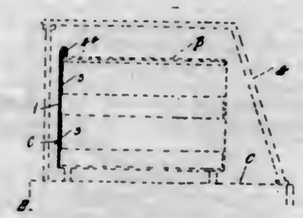
1. A pressing apparatus comprising a plurality of spaced apart frames, a pressing element carried by and common to both frames, a movable pressing element movable toward and from the former element and means for supporting and actuating the movable element, said means comprising duplicate portions, carried by each frame and individual thereto.

1,686,313. CENTRIFUGAL STARCHING APPARATUS. ALBERT J. DREHER and FORREST J. COUCH, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Norwood Station, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 14, 1925. Serial No. 56,254. 3 Claims. (Cl. 68—28.)



1. Apparatus of the character described, comprising a centrifugal extracting machine, a starch solution storage reservoir, conduit means through which starch solution may be circulated through said machine, fluid supply means for flushing purposes, and delivery connections between said fluid supply means and said conduit means and between said fluid supply means and said starch solution storage reservoir, whereby said conduit means and said storage reservoir may be flushed by fluid from said fluid supply means.

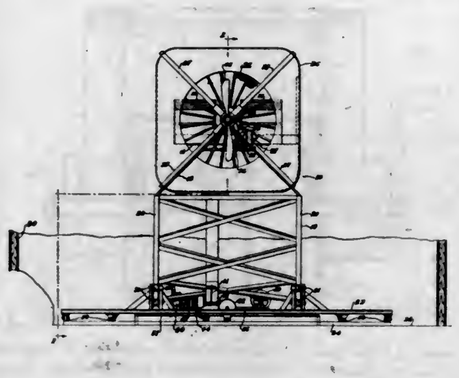
1,686,314. REMOVABLE SANITARY COVER FOR FREEZER CANS. EMIL EBERHART, Edwardsville, Ill. Filed Dec. 2, 1925. Serial No. 72,825. 2 Claims. (Cl. 62—37.)



1. A sanitary cover for a refrigeration unit having air circulation pipes passing therethrough consisting of a piece of sheet iron or other suitable metal formed with a plurality of transverse openings corresponding in size and number to the air pipes of the refrigeration unit and strips of wire mesh fastened to the back of the cover and covering said openings.

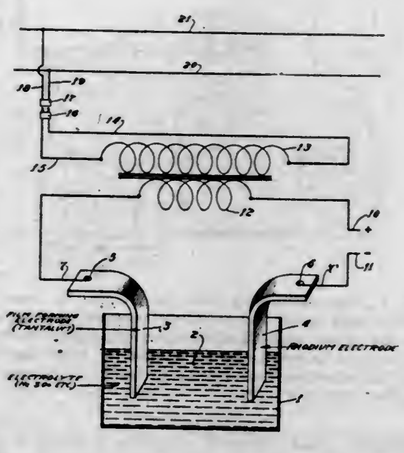
1,686,315. AMUSEMENT DEVICE FOR INDUCING SENSATIONS OF AVIATION. RICHARD M. EDWARDS, Canton, Ohio, assignor of one-half to Frank Thomas, Indianapolis, Ind. Filed Nov. 10, 1927. Serial No. 232,319. 12 Claims. (Cl. 104—83.)

1. A device for inducing aviation sensations and the like, including a cradle, means mounting the cradle for lateral oscillations about a longitudinal axis, means for oscillating the cradle about a lateral axis simultaneously



with its oscillation about its longitudinal axis, and means for rotating the crade about a vertical axis simultaneously with the lateral and longitudinal oscillations.

1,686,316. RECTIFIER ELECTRODE. EDGAR W. ENGLE, Lake Forest, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Jan. 7, 1927. Serial No. 159,521. 4 Claims. (Cl. 175—318.)



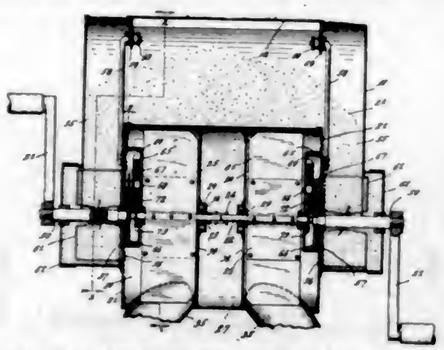
1. In electrolytic apparatus, a non-film forming electrode comprising rhodium, a film forming electrode and an electrolyte.

4. In an electrolytic device, a rhodium electrode, a tantalum electrode and a sulphuric acid electroyte, to which has been added a small amount of a metal of the iron group.

1,686,317. MULE BACK DUSTER. EDMUND J. FEENY, Muncie, Ind. Filed Oct. 4, 1922. Serial No. 592,274. 2 Claims. (Cl. 43—148.)

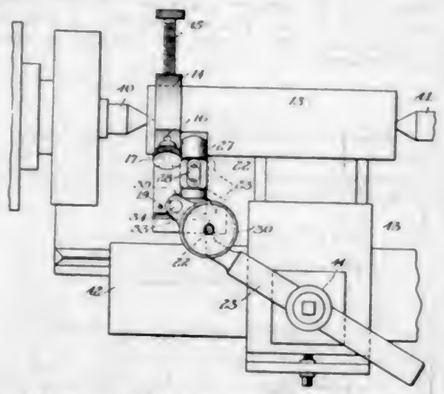
1. A mule-back duster, comprising a container arranged for mounting on the back of a mule and provided with projecting discharge tubes at the sides of the mule, two blowers for receiving powder from said containers and dis-

charging it through said two discharge tubes respectively, two operating handles arranged for operation by the two



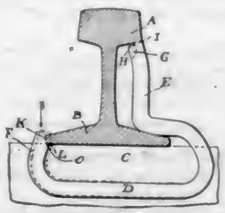
hands of the rider of the mule and connected to said two blowers respectively, said two blowers having alined shafts, and a separable coupling between said two shafts.

1,686,318. GAUGE. GEORGE B. GALLASCH, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 4, 1925. Serial No. 54,399. 12 Claims. (Cl. 33—181.)



1. A gauge comprising a bracket adapted for connection with a shaft or tube, means upon the bracket for determining the proper angle of a thread-cutting tool with respect to the axis of the shaft and means for indicating when said last mentioned means is adjusted to a predetermined position upon the shaft.

1,686,319. RAIL ANCHOR. HORATIO G. GILLMOR, Washington, D. C. Filed Feb. 20, 1926. Serial No. 89,766. 10 Claims. (Cl. 238—330.)



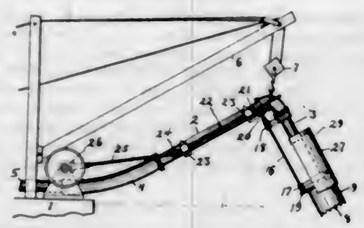
9. A rail anchor comprising a single bar of metal bent to form a body portion adapted to engage a cross tie but not the rail base, an arm at one end adapted to engage the lower corners at least of the rail base at one side of the rail and an arm at the other end adapted to be wedged in between the head and base at the other side of the rail.

1,686,320. RAIL TIE. ERWIN GRIESBAUM, St. Louis, Mo. Filed July 13, 1927. Serial No. 205,383. 10 Claims. (Cl. 238—60.)



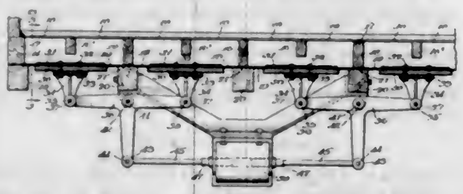
1. A railway tie comprising a metallic member having a pair of raised rail seats disposed near each end and spaced from each other, and a U-shaped clamping member arranged against the underside of said member intermediate each pair of seats and having its end portions projecting upwardly and inwardly therefrom for engaging the edges of the base flanges of the rail and clamping the latter against said seats.

1,686,321. SAND PUMP. WILLIS E. GROH, Corunna, Ind. Filed Apr. 3, 1926. Serial No. 99,551. Renewed July 12, 1928. 5 Claims. (Cl. 37—65.)



1. In apparatus of the class described including a vertically adjustable suction pipe and means for supporting same in adjusted positions, a cylindrical cutter head rotatably mounted on the suction pipe in axial alinement therewith, a portion thereof extending beyond the month of said pipe, the upper end of said head being closed, and its lower end being toothed; a grating fixed in the head disposed between the toothed end of the head and the mouth of said pipe; a driving mechanism including means for actuating same, having geared relation with said cutter head; and a shield in supported relation with said suction pipe and overhanging the upper portion of said cutter head.

1,686,322. PAPER-MAKING MACHINERY. CHARLES L. HENDERSON, Neenah, Wis., assignor to Paper Patents Company, Neenah, Wis., a Corporation of Wisconsin. Filed Apr. 17, 1925. Serial No. 23,765. 11 Claims. (Cl. 92—32.)



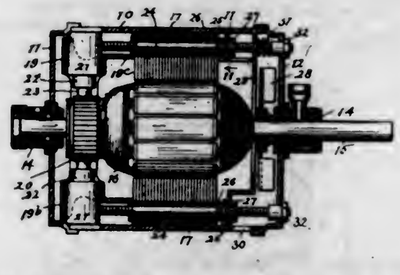
1. In a machine of the class described, the combination with a diaphragm, of means for imparting a vibratory movement to said diaphragm including an electro-magnetic device coacting with said diaphragm and means for energizing said device.

1,686,323. GOLF CLUB. GEORGE VON DER HEYDE, Montclair, N. J. Filed Apr. 12, 1928. Serial No. 269,332. 2 Claims. (Cl. 273—80.)



2. A golf club comprising a shaft of thin tubular form with a striking head on the smaller end, and an umbrella consisting of a stem with ribs spreaders and a cover and which is arranged to slide into and out of the said tubular shaft, the umbrella stem being provided at the free end with a short head arranged to slide partly into the upper open end of the said tubular shaft and provided with locking means to removably and rigidly hold the umbrella inside of the club and to permit the normal use of the club with the umbrella concealed therein.

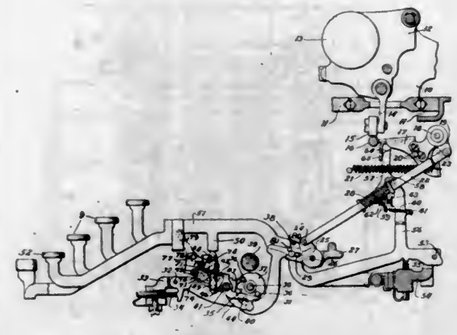
1,686,324. ELECTRIC MOTOR. FOSTER F. HILLIX, Cleveland, Ohio, assignor, by mesne assignments, to White Sewing Machine Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed Nov. 25, 1922. Serial No. 603,264. 12 Claims. (Cl. 172—36.)



4. In an electric motor, a casing, field, armature and brush holder elements enclosed thereby, the field element comprising a core, the brush holder element comprising a part having portions adapted to support brushes, and means extending axially through the core and engaging said brush holder part for securing the same thereto.

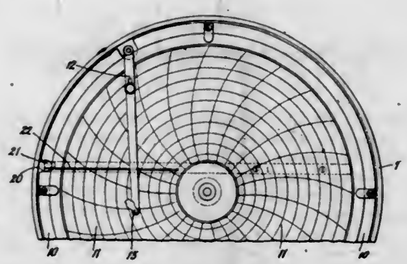
1,686,325. CASE-SHIFT MECHANISM. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed May 10, 1924. Serial No. 712,182. 17 Claims. (Cl. 197—73.)

13. In a typewriting machine, the combination with a shift frame for changing from one case to another, a power drive for moving said shift frame of a key lever for controlling the movement of said shift frame, and a



stop actuated by said key lever for locking said shift frame in its shifted position and out of driving relation with said power drive.

1,686,326. RECORDING INSTRUMENT. EMIL AUGUST ILEMAN, Queens, N. Y., assignor to American Schaeffer and Budenberg Corporation, a Corporation of New York. Filed Feb. 11, 1925. Serial No. 8,349. 1 Claim. (Cl. 234—1.)

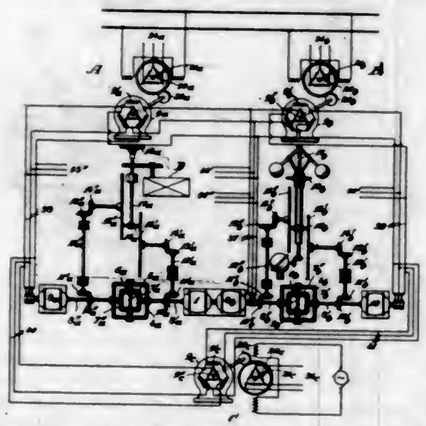


As an article of manufacture a lifting device for the marking arm of a recording instrument adapted to carry a record sheet, comprising a part adapted to be fastened in fixed position behind said sheet, a resilient leaf spring extending from said fixed part back of said sheet to the edge of said sheet, an end portion carried by the free end of said spring at the edge of said record sheet and extending to a point in front thereof, and a lifting member carried by said end member and adapted to be lifted to lift said marking arm when the spring is released.

1,686,327. SYSTEM FOR THE TELECONTROL OF OBJECTS. JOHANN WILHELM GEORG ILLAUER, Berlin-Charlottenburg, Germany, assignor to Gesellschaft fuer Elektrische Apparate mit beschraenkter Haftung, Berlin-Marienfelde, Germany, a Corporation of Germany. Filed June 26, 1924. Serial No. 722,464, and in Germany June 28, 1923. 7 Claims. (Cl. 172—239.)

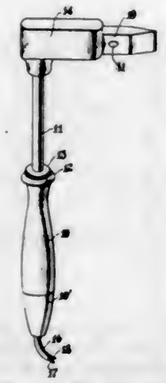
1. In a system for the telecontrol of objects, in combination, two sources of alternating currents having movable elements, a single power machine in the total system, said machine being of constant speed for driving the movable elements of said sources, a stepless device for regulating the relative speed of said movable elements, the speed

of movement of said movable elements determining the frequency of the current from each of said two sources, and a motor for adjusting the object to be controlled, the rotor



of said motor being supplied with current from one of said sources, and the stator of said motor being supplied with current from the other of said sources.

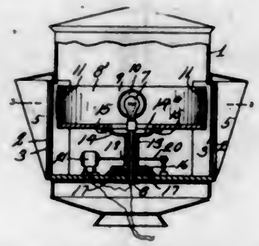
1,686,328. ELECTRIC SOLDERING IRON. BERTALAN KALMAR and MANO KOLLIN, Long Island City, N. Y. Filed Oct. 21, 1927. Serial No. 227,637. 4 Claims. (Cl. 219—26.)



4. The combination with an electric soldering iron having a socket member, heating units therein, and a heating point slidably arranged between the units, of projections from the heating units engaging in recesses in the socket member, and wedges slidable in grooves in the heating units to force the heating units against the socket member so that the projections are forced to stay in engagement with the recesses, and means for normally holding the heating point against being drawn out, consisting of levers hinged intermediate of their ends in the socket member, end of each lever being engageable in apertures in the heating point, and the other ends being frictionally held, and exposed for manual moving.

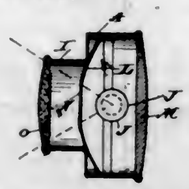
1,686,329. TRAFFIC SIGNAL. RICHARD C. KEOGAN, South Bend, Ind. Filed Sept. 27, 1926. Serial No. 138,093. 3 Claims. (Cl. 116—63.)

1. A traffic signal comprising a casing having sight openings in the sides thereof, a lamp within the casing, a rotatable drum within the casing, said light being disposed within said drum, said drum having light passages of relatively small area in relation to the sight openings in the casing and positioned whereby during the rotation of the



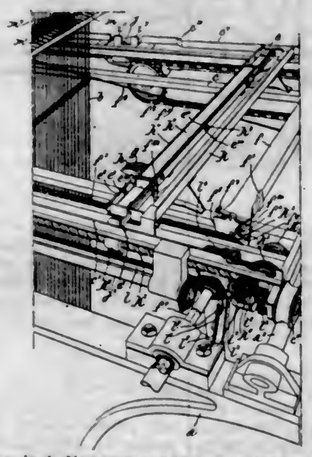
drum light rays projected through the light passages of the drum will pass through the sight openings and will move horizontally across said sight openings.

1,686,330. COMBINED SIGNAL AND PARKING LIGHT FOR MOTOR CARS. STANLEY R. LEESON, Lakewood, Ohio. Filed Sept. 15, 1921. Serial No. 500,823. 1 Claim. (Cl. 171—329.)



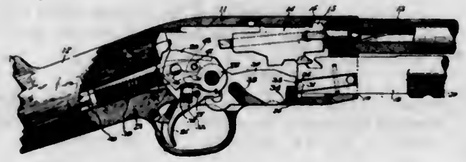
In a combined parking and signalling lamp, a front and a rear lens, an incandescent lamp between the two lenses to project light through each lens having a single bulb with a pair of filaments of different light emitting intensity therein, and means for selectively effecting flow of current through either filament to the exclusion of the other, whereby the filament of lesser intensity serves for parking use and the other filament serves for combined parking and stop signal use.

1,686,331. MANUFACTURE OF CARPETS. VICTOR CHARLES EMILE LE GLOAHEC, St. Cloud, France. Filed Dec. 19, 1924, Serial No. 756,864, and in Belgium Dec. 20, 1923. 19 Claims. (Cl. 139—5.)



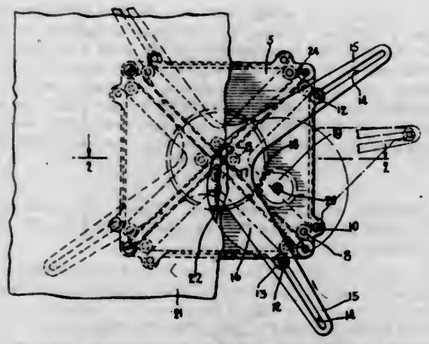
1. A loom including means adapted to support the warp threads, a movable carriage adapted to be moved in a direction having a component parallel to the plane of the warp threads, movable tuft-shuttle holders located on opposite sides of the warp holding means and mounted on said carriage and movable in a direction having a component perpendicular to the plane of the warp threads, means adapted to actuate said holders so that they are moved towards each other and away from each other, movable retaining mechanism associated with each of said holders and adapted to retain said tuft-shuttles therein and to release said tuft-shuttles therefrom, and control means adapted to operate the retaining mechanism in each of said holders to release the tuft-shuttles in one of said holders and to retain them in the other of said holders.

1,686,332. FIREARM. CRAWFORD C. LOOMIS, Ilion, N. Y., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Filed May 5, 1926. Serial No. 106,817. 6 Claims. (Cl. 42—17.)



1. In a firearm of the type having a firing chamber, breech mechanism closing said firing chamber, and operating mechanism for said breech mechanism, the combination of a latch normally blocking movement of said operating mechanism, a firing hammer, a latch disabling means associated with said hammer and comprising a bifurcated member, one arm of which is adapted to yield if the resistance to motion of said latch is excessive.

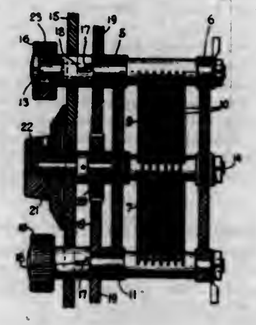
1,686,333. CONDENSER. GEORGE MERLE, Sr., Brooklyn, N. Y. Filed Feb. 5, 1926. Serial No. 86,319. 12 Claims. (Cl. 175—41.5.)



1. A condenser of the class described comprising a plurality of independent condenser units consisting of stator plates and movable plates of each unit, one end of the movable plates being pivoted whereby the same are swung bodily from said pivot into and out of communication with the stator plates of the separate units, and means in operative connection with the free end portions of said movable plates of all the units for operating said plates and for moving the plates of the separate units simultaneously.

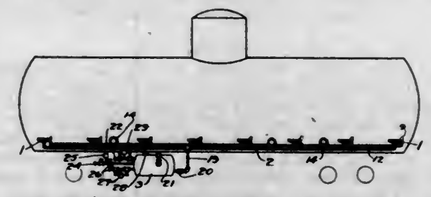
1,686,334. CONDENSER. GEORGE MERLE, Sr., Brooklyn, N. Y. Filed Feb. 17, 1926. Serial No. 88,777. 15 Claims. (Cl. 175—41.5.)

1. A condenser of the class described including a plurality of movable condenser units, said units being arranged side by side and in oppositely arranged pairs, the plates of oppositely arranged pairs of units being in common alinement and in spaced relation and the plates of the



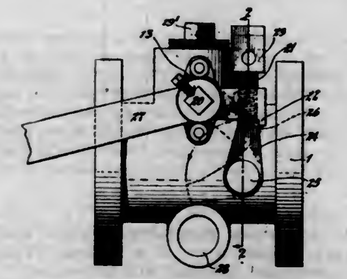
units at the sides of each unit being in cooperative relation with such unit and positioned in the plane between and in spaced relation with the plates of such unit.

1,686,335. INTERIOR TANK-CAR CLEANER. RAYMOND E. MESSLER and FRED A. IVORY, Seattle, Wash. Filed June 9, 1927. Serial No. 197,558. 7 Claims. (Cl. 141—1.)



1. In an apparatus for cleaning tanks, a plurality of spray devices connected to a common header arranged in the bottom of the tank, an auxiliary chamber mounted on the tank, separate connections for supplying air, water and steam to the auxiliary chamber under pressure, each of said connections being provided with a pressure recording gauge, said auxiliary chamber being provided with an opening through which any cleaning compound may be placed therein, and a connection from the auxiliary chamber to the header in the bottom of the tank.

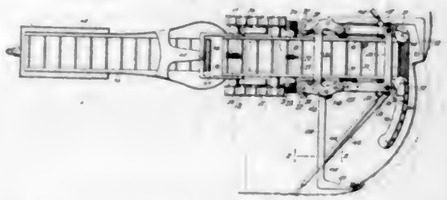
1,686,336. PLUG VALVE. SIDNEY E. MEYERS, Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 23, 1925. Serial No. 58,058. 12 Claims. (Cl. 251—40.)



1. A valve comprising in combination a hollow body, a seat in said body, a tapered plug slidably mounted in spaced relation in said body and cooperating in axial

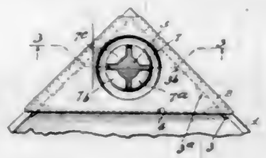
alignment with said seat, said plug having a slot, a lever extending into said slot, an exteriorly extending rotatable stem mounted in said body on which said lever is secured, means for rotating said stem, an arm secured to said stem and rotatable therewith, said arm having a downwardly extending lip at its outer end, an adjustable screw extending through said arm, and a pawl pivotally mounted exteriorly on said hollow body in a line offset from the vertical axis of said adjustable screw and adapted to be projected into the path of said arm and abutted against the downwardly extending lip thereon, said pawl having in its end a conical seat for engaging endwise said adjustable screw and coacting therewith whereby said plug can be forced and positively secured on its seat.

1,686,337. MINING AND LOADING APPARATUS. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed June 23, 1920. Serial No. 391,212. 42 Claims. (Cl. 255—5.)



1. In a mining and loading machine, the combination with supporting framework, of coal splitting mechanism mounted on said framework for arcuate movement relatively thereto and along an upright mine wall, means for operating said coal splitting mechanism to dislodge material from said upright mine wall, a conveyer for transferring dislodged material toward loading position, and a supplemental conveyer for moving dislodged material along the base of the mine wall toward the receiving end fo said conveyer.

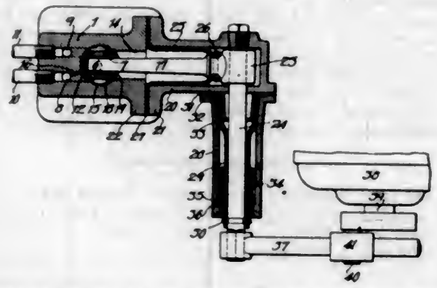
1,686,338. SELF-LOCKING BOX. HARRY D. MORTON, New York, N. Y. Filed Nov. 17, 1925, Serial No. 69,581. Renewed Jan. 16, 1928. 7 Claims. (Cl. 229—47.)



1. A box comprising a body and a cover constructed and arranged to be placed in telescopic relation, a hollow unitary member attached to the top of said cover, projecting therethrough and clinched thereto, and means attached to two adjacent walls of said body, and having a portion which spans two edges thereof and a part of the intervening space therebetween, and coacting with said unitary member to effect a permanent locking of said body and cover.

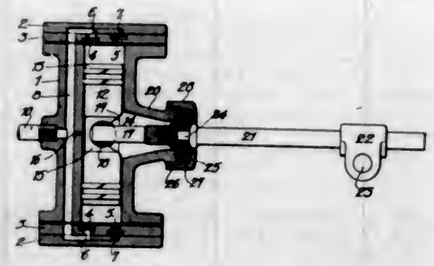
1,686,339. PUMP FOR REFRIGERANTS AND THE LIKE. THOMAS E. MURRAY, Brooklyn, N. Y. Filed May 12, 1926. Serial No. 108,489. 1 Claim. (Cl. 230—202.)

A pump for refrigerants and the like including a cylinder, a piston, an oscillating arm for actuating the piston, a chamber extending laterally from the cylinder and enclosing said arm, a second chamber extending laterally from the outer end of the first one, a shaft for said arm extending through said second chamber, a flexible fluid-tight tube within the first chamber surrounding said arm and



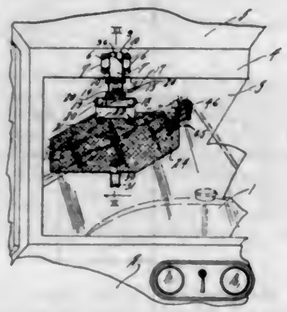
engaging the wall of the chamber and packing means within the second chamber between said shaft and the wall of the chamber.

1,686,340. PUMP FOR REFRIGERANTS AND THE LIKE. THOMAS E. MURRAY, Brooklyn, N. N. Y. Filed May 14, 1926. Serial No. 109,074. 2 Claims. (Cl. 230—202.)



1. A pump for refrigerants and the like including a piston, a cylinder, a lever for actuating the piston, a chamber carrying the inner portion of the lever and open at its inner end to the cylinder to permit free movement of said lever, the lever passing through the outer end of the chamber and carrying a flexible fluid-tight plate the outer portion of which is attached to the end of the chamber, said plate alone constituting a rocking support for the lever.

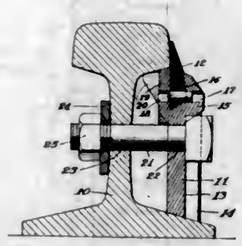
1,686,341. GLARE SHIELD. ISAAC R. NATHANSON, Toledo, Ohio. Filed Dec. 14, 1925. Serial No. 75,319. 5 Claims. (Cl. 296—97.)



1. A light screen, a mounting bearing as a hinge support for the screen, said bearing being provided with an angular position determining stop for the screen as to said

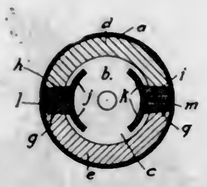
bearing, a fixed support, a bracket from said support providing a swingable mounting for the bearing, and directing means for the bearing as shiftable in said mounting relatively to the support.

1,686,342. SWITCH-POINT GUARD. ALPHONSO T. PALMER, Chicago, Ill. Filed Feb. 15, 1926. Serial No. 88,183. 12 Claims. (Cl. 246—441.)



1. A switch point guard comprising a supporting stand, and a removable wear member carried by said stand and held thereby adjacent the lateral face of the railway rail.

1,686,343. INDUCTOR FOR MAGNETO-ELECTRIC MACHINES. MARC ANTOINE PATTAY and EUGENE JAQUEMOT, Geneva, Switzerland, assignors to Magnétas Lucifer, Société Anonyme, Carouge-Geneva, Switzerland, a Corporation of Switzerland. Filed Jan. 21, 1928, Serial No. 248,326, and in Switzerland Jan. 26, 1927. 1 Claim. (Cl. 171—209.)

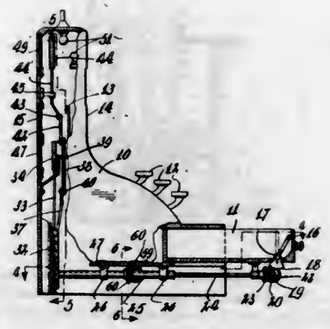


Inductor for magnet-electric machines comprising in combination a plurality of magnets, an envelope of non-magnetic material and wedging members of magnetic material, these wedging members being lodged between the adjacent ends of the magnets and adapted to apply these latter against the surface of said envelope of non-magnetic material, pole pieces constituting one piece with said wedging members and which are in relation with the magnets solely by the intermediary of the wedging members, so as to allow to wholly utilize the magnets from the magnet point of view, and fixing members which are operative on the wedging members and which are adapted to bear against said envelope of non-magnetic material.

1,686,344. DIETHYLENE GLYCOL DINITRATE AND PROCESS OF PREPARING SAME. WILLIAM H. RINKENBACH, Dover, N. J., assignor of one-half to Walter O. Snelling, Allentown, Pa. Filed May 31, 1927. Serial No. 195,590. 5 Claims. (Cl. 260—144.)

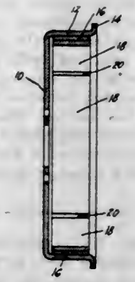
1. The new compound diethylene glycol dinitrate.

1,686,345. ADVERTISING DEVICE FOR CASH REGISTERS. SALVATORE RUSSO, New York, N. Y. Filed May 12, 1927. Serial No. 190,702. 3 Claims. (Cl. 235—7.)



1. In a device of the class described, the combination with a cash register frame, of a display sign arranged for movement into exposed position on the frame, a cash drawer, a lever mounted on the drawer and arranged for manipulation from the interior thereof, and a means for transmitting movement from the lever to the sign.

1,686,346. BRAKE DRUM. ROY S. SANFORD, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 19, 1927. Serial No. 220,318. 3 Claims. (Cl. 188—218.)

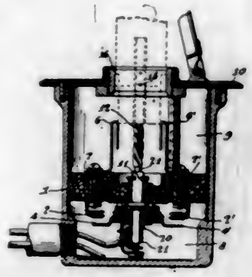


1. A brake drum which is expansible under the influence of heat, in combination with a member mounted on said drum and which is reversely affected by heat in such a manner as to maintain the braking surface of the drum approximately constant.

1,686,347. AUTOMATIC ARCLESS PLUG CONNECTION. OTTO SCHEUERMANN, Sharon, Pa. Filed Aug. 31, 1925. Serial No. 53,760. 3 Claims. (Cl. 200—51.)

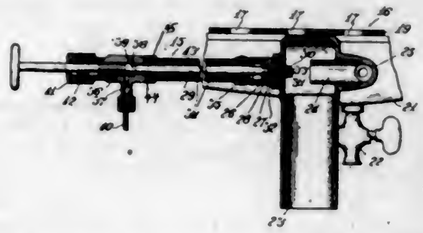
1. In an automatic arcless plug connection including a housing, a base in said housing separating the same into two compartments, plug receiving clips mounted in one of said compartments on one side of said base, and switch blades and clips in the other of said compartments on

the opposite side of said base, means extending through the base connecting the plug clips and the switch clips, means for allowing the making of live wire connections



in the part of said housing containing the switch mechanism only, a means for operating the switch by the insertion of a plug, and a means for positively guiding the plug.

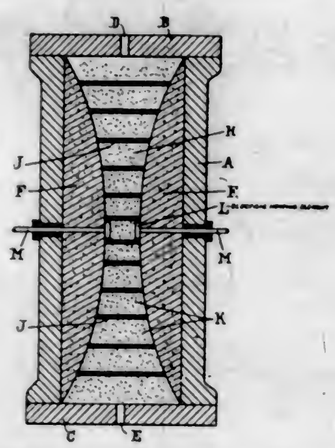
1,686,348. GENERATOR. GUSTAVE F. SCHMIDT, Chicago, Ill. Filed Jan. 15, 1926. Serial No. 81,357. 9 Claims. (Cl. 158—53.)



1. A generator of the character described, comprising an outer metallic tube, a nonporous carbon tube, the external diameter whereof is slightly less than the inner diameter of the outer tube and resting at bottom on the metal tube so as to provide an attenuated crescent shaped passage for the hydrocarbon between the outer tube and the upper surface of the carbon tube, and a metal rod passing through the carbon tube and of a diameter slightly less than the internal diameter of the carbon tube so as to provide an attenuated crescent shaped passage beneath the rod.

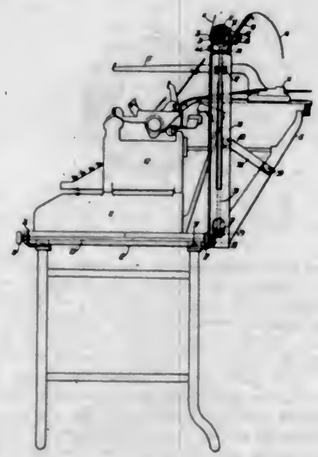
1,686,349. PROCESS OF CONDUCTING GASEOUS CATALYTIC REACTIONS AND APPARATUS THEREFOR. ROLAND EDGAR SLADE, Billingham-on-Tees, England, assignor to Atmospheric Nitrogen Corporation, New York, N. Y., a Corporation of New York. Filed May 1, 1926, Serial No. 106,166, and in Great Britain May 4, 1925. 13 Claims. (Cl. 23—288.)

1. The process of conducting exothermic gaseous catalytic reactions which comprises preheating a stream of uncatalyzed gases by passing them in contact with a hot body of heat-storing material, conducting said preheated stream of gases in contact with and through a body of catalyst material to cause the exothermic reaction to progress in the direction of the flow of the gases from the region of the inlet end of the said catalyst material toward the region of the exit end thereof, leading the hot catalyzed gases of the foregoing steps in contact with a second body of heat-storing material to remove heat from said gases, continuing the aforesaid steps until the portion of the catalyst material in the region of the exit end is at a higher thermal state than the correspondingly located material of the inlet end and thereupon causing the stream of gases to flow, in a reversed direction and under the aforesaid operating conditions, first in contact with the heat-storing material of the third step, now in a hot condition, then in contact with the catalyst, as heretofore set forth,



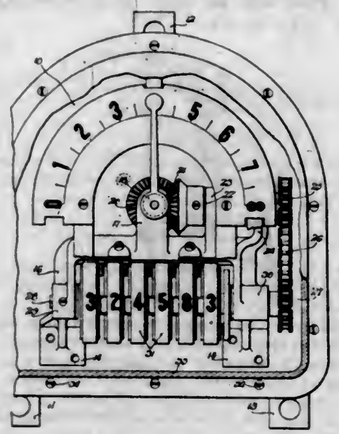
and finally in contact with the heat-storing material of the first step in order to re-heat it, and repeating the aforesaid steps as a continuously functioning catalytic procedure with substantially regular reversals of flow of gases.

1,686,350. COPYHOLDER FOR TYPEWRITING MACHINES. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 8, 1924. Serial No. 748,554. 6 Claims. (Cl. 120—32.)



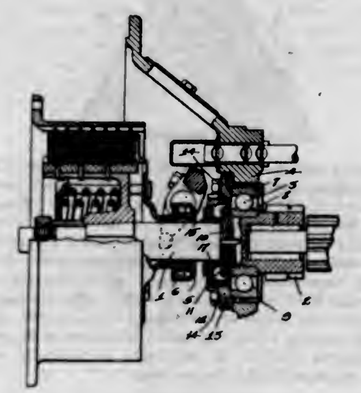
1. The combination with a typewriting machine having a reciprocable carriage of a copy-holder, bracket supports therefor, each support extending upwardly from below the typewriting machine with one support on either side thereof, detachable end plates on the upper ends of the supports for supporting the copy-holder at either end thereof above the typewriting machine, the bracket supports being sufficiently far apart to allow reciprocation therebetween of the typewriter carriage.

1,686,351. COAL METER. JACOB M. SPITZGLASS, Chicago, Ill., assignor to Republic Flow Meters Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1925. Serial No. 18,194. 19 Claims. (Cl. 235—61.)



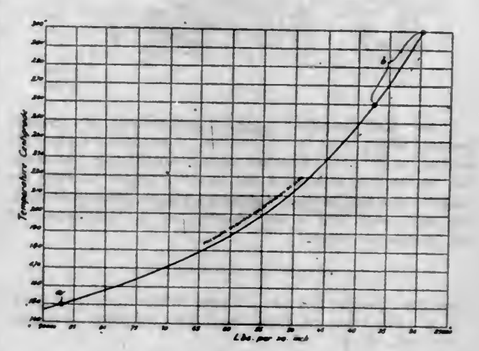
1. A meter for measuring the flow of granular or powdered material comprising a counter, a movable member actuated in sympathy with the rate of flow of said material for driving said counter, cam mechanism for controlling the connection between said movable member and counter, and means for setting said cam mechanism to accord with the quantity of flow of said material.

1,686,352. ADJUSTABLE CLUTCH BRAKE. HENRY W. SWEET, Syracuse, N. Y., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Sept. 23, 1926. Serial No. 137,268. 7 Claims. (Cl. 192—13.)



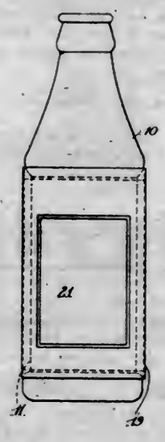
2. In a motion transmitting mechanism, the combination of a clutch including a shaft, a throw-out collar slidable along the shaft, a support for the shaft in the rear of the throw-out collar, the shaft having a bearing in said support, a bearing cap for said bearing having an outer body and a central part enclosing the shaft and threading into the body, said part being opposed to the throw-out collar and brake means interposed between said collar and part to retard the rotation of the throw-out collar when the same is actuated to release the clutch.

1,686,353. PROCESS FOR WORKING ZINC. WALTER MARCUS TOWNE, New York, N. Y., assignor, by mesne assignments, to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware. Filed July 27, 1925. Serial No. 46,482. 4 Claims. (Cl. 148—11.)



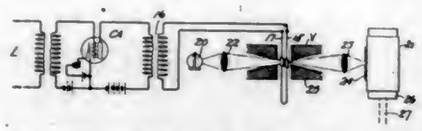
4. The process of working zinc which consists in subjecting a blank to pressure between male and female dies and extruding it through a contracted annular space surrounding the made die in a direction opposite to the movement of the male die and while at a temperature materially exceeding 150° C. and not materially exceeding 300° C.

1,686,354. MERCHANDISE PACKAGE. JAMES F. WALLACE, Rochester, N. Y., assignor to Certo Corporation, Rochester, N. Y., a Corporation of New York. Filed Mar. 24, 1927. Serial No. 178,100. 4 Claims. (Cl. 215—6.)



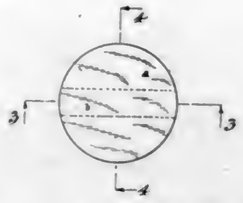
1. A merchandise package comprising a container having a depressed panel in a face thereof, an instruction booklet disposed and housed in said panel, means securing said booklet in said panel to adapt said booklet and container for convenient manipulation together as a unit in labeling operations, and a label having a vertical width over said panel substantially equal to that of said panel and encircling said container to enclose and conceal said booklet and present the outward form, adaptability and appearance of an ordinary container labeled in the ordinary manner.

1,686,355. TRANSLATING DEVICE. EDWARD C. WENTE, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 22, 1924. Serial No. 701,016. 15 Claims. (Cl. 178—7.)



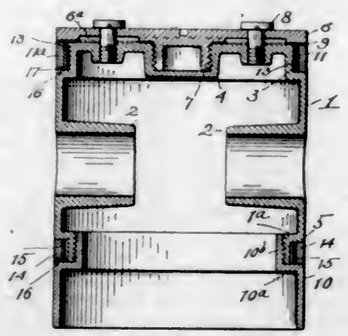
1. An electro-optical system comprising a passage through which light is transmitted, a source of modulated carrier waves, and vibrating means comprising two members movable in separated but parallel planes to vary the amount of light passing through said passage in accordance with only half of the envelope of the amplitudes of said modulated waves.

1,686,356. BOTTLE CAP. ALBERT WESTLAKE, New York, N. Y. Filed Oct. 18, 1926. Serial No. 142,282. 1 Claim. (Cl. 215—38.)



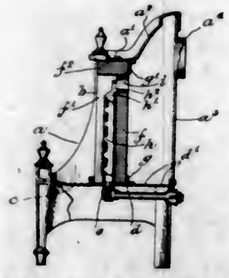
A bottle cap composed of fibrous material and having a zone within the mouth of the bottle, adapted, when subjected to pressure, to be depressed lower than the top surface of the bottle rim and provided with a sustaining strip crossing said bottle mouth and anchored upon the summit of the bottle neck rim, said sustaining strip being located below the top surface of the cap, whereby said cap is adapted to resist the contact of objects which might tend to penetrate the same.

1,686,357. PISTON. EDWARD M. WILLIAMS, Elyria, Ohio. Filed Oct. 27, 1921. Serial No. 510,866. 4 Claims. (Cl. 74—108.)



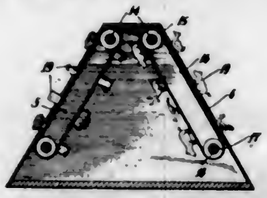
1. A piston comprising a body portion, a head portion, which head portion is separate from but secured to the body portion, heat insulating means interposed between the head and body portion and a skirt portion associated with the body portion which is made separate from but attached to the lower part of the body portion, the said head portion and the said skirt portion being made of metal which has a low co-efficient of expansion as compared to that of the body portion.

1,686,358. GAS HEATER. AARON H. WOLFF, New York, N. Y. Filed July 26, 1923. Serial No. 653,884. 9 Claims. (Cl. 126—92.)



1. A gas heater embodying therein a casing having an opening in the front thereof, combustion chamber forming means having a forwardly directed top, and a back wall rearwardly of said opening, a plurality of burners, opening into the bottom of said combustion chamber, a radiant element above each of said burners and extending adjacent the top of said combustion chamber, and a back plate for said casing spaced sufficiently away from the back wall of said combustion chamber forming means to form a flue chamber rearwardly of said combustion chamber, said back plate having an opening therethrough adapted to receive a flue pipe, and said combustion chamber forming means having an opening through the back wall thereof adjacent the top of each radiant element whereby gases will flow from said combustion chamber, and through said flue chamber and the opening therein.

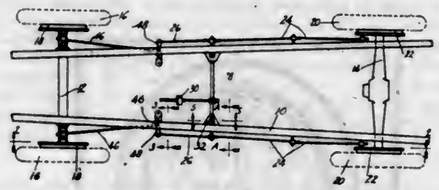
1,686,359. DISPLAY DEVICE. ROBERT J. ZEDLER, Yonkers, N. Y. Filed June 21, 1927. Serial No. 200,376. 1 Claim. (Cl. 46—40.)



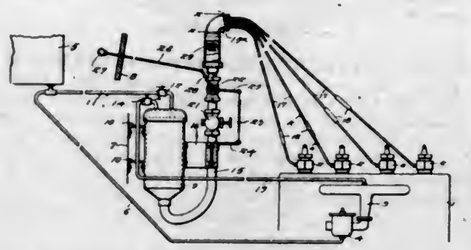
A display device comprising a hollow frusto-pyramidal casing having narrow slots in its opposed angular sides adjacent one end, the slots terminating in the level upper element of the casing, a motor fixed on the base of said casing midway between the sides thereof, shafts journalled in the end walls of said casing at its upper and lower corners, operative connections between said motor and the upper shafts, rolls fixed on all of said shafts, belts trained over said rollers at each side of the casing, the outer runs of said belts both moving upwardly, and a plurality of figural objects attached directly to said belts to partially extend through the slots in the casing sides.

1,686,360. OPERATING CONNECTION. WILLIAM JOSEPH ANDRES, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1925. Serial No. 75,924. 6 Claims. (Cl. 188—10.)

1. A vehicle having a chassis frame and swivelled wheels on opposite sides of the frame having brakes, and comprising, in combination therewith, a brake-applying connection for each brake inclined rearwardly in a horizontal plane and terminating inside the outer edge of the frame to clear the wheel in its extreme position, an operating connection for each brake-applying connection outside the frame terminating opposite the rear end of the corresponding brake-applying connection, and a motion-transmitting means supported by each side of the frame the two means connecting each of the operating connections outside the frame to the corresponding brake-applying connection inside the outer edge of the frame.



1,686,361. PRIMING DEVICE FOR INTERNAL-COMBUSTION ENGINES. CHARLES D. ARMSTRONG, Woonsocket, R. I. Filed Apr. 29, 1926. Serial No. 105,472. 1 Claim. (Cl. 123—187.5.)



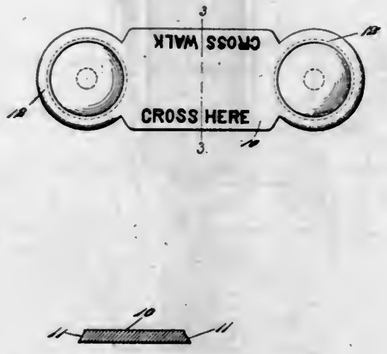
In combination, an internal combustion engine and the spark plugs thereof, a tank, a vertically disposed pipe communicating at its lower end with the tank and provided at its upper end with a distributing head, a bracket for supporting the pipe and secured to the tank, a downwardly seating check valve arranged within the pipe below the distributing head, a manually operable valve located in the pipe below the check valve, tubes communicating with the distributing head and with the spark plugs, a source of fuel supply for the engine, a pipe provided with a check valve and communicating with said source and the top of the tank, and a second pipe provided with a check valve and communicating with the top of the tank and with the intake manifold of the engine.

1,686,362. ELECTRIC FIXTURE. GEORGE ARRAS, Chicago, Ill. Filed June 29, 1925. Serial No. 40,225. 5 Claims. (Cl. 247—30.)



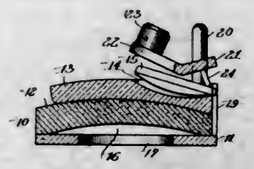
1. A fixture chain comprising opposite channel members forming hollow sheet metal sections with angular loops at the ends which hook into corresponding loops of adjacent sections, the interengagement of the angular loops holding the opposite sections together.

1,686,363. CROSSWALK MARKER. LEON F. N. BALDWIN, Edgewood, R. I., assignor of one-half to Benjamin S. Clark, Providence, R. I. Filed May 1, 1926. Serial No. 106,107. 3 Claims. (Cl. 40—130.)



2. A traffic directing cross walk marker comprising an elongated plate having a lamp receiving pocket formed at each end thereof, and a lens for closing the pocket.

1,686,364. LENS-BLANK-HOLDING MEANS. WILLIAM BAUSCH and JOHN R. POWELL, Rochester, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed June 29, 1926. Serial No. 119,445. 6 Claims. (Cl. 49—82.1.)

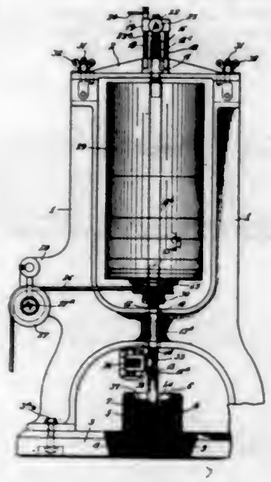


1. A device for holding a lens segment in tilted position upon a lens blank, comprising a base for supporting the blank, spaced guides extending upwardly from the base, a bar slidable and tiltable upon the guides and adapted to be frictionally held in adjusted position thereby, said bar having downwardly projecting means adapted to engage the segment rearwardly of said guides to hold it in said tilted position and serving also to prevent its rocking in a direction transverse to the direction of tilting, and a weight connected with said bar and serving to hold it tilted in the desired position of adjustment.

1,686,365. TESTING APPARATUS AND METHOD OF USING SAME. ARMAN E. BECKER, Elizabeth, N. J. Filed Mar. 21, 1921. Serial No. 454,281. 15 Claims. (Cl. 175—183.)

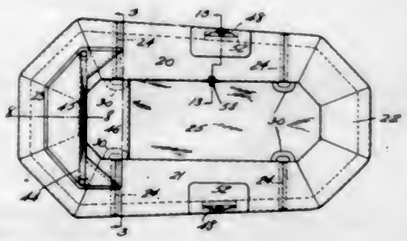
6. In an apparatus for testing lubricants and bearings in combination a frame, a stationary member fixedly mounted therein, but electrically insulated therefrom, a movable

member rotatably mounted therein and having a surface adjacent and conforming to a surface of the said stationary member, means for providing a film of lubricant be-



tween the said surfaces, means for varying the force exerted upon the said film and electrical means for determining the thickness of the said film.

1,686,366. INFLATABLE BOAT. JAMES F. BOYLE, Hammondsport, N. Y., assignor to Airships Incorporated, Hammondsport, N. Y., a Corporation of New York. Filed Apr. 2, 1926. Serial No. 99,375. 21 Claims. (Cl. 9—2.)



15. A collapsible boat having an inflatable air compartment extending around the peripheral portion of the boat, and a bottom secured to said air compartment, said bottom having an upwardly inturned outer edge portion, the upper edge of which is secured to said air compartment, and a tape extending around the edge of said bottom portion and secured to the peripheral portion of said bottom and extending outwardly therefrom and having its outer portion secured to the air compartment.

1,686,367. TIRE HOLDER. ALVIN C. BUSBY, Ellensburg, Wash. Filed Oct. 18, 1927. Serial No. 227,038. 4 Claims. (Cl. 224—29.)

1. A tire holder comprising a trident having arms of invariable lengths extending adjacent to the perimeter of the organization, screw threads formed at the several extremities, yoke applied to some of the screw threaded ex-



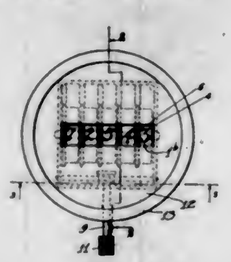
tremities, a sleeve applied to one of the screw threaded extremities, a lever fulcrumed to the sleeve, and a yoke carried by the lever.

1,686,368. STRETCHING FRAME FOR SHEET MATERIAL. WILLIAM J. CARTER, Jr., Akron, Ohio. Filed June 28, 1927. Serial No. 202,079. 7 Claims. (Cl. 45—24.)



1. A stretching frame comprising two frame bars crossed substantially in contact with each other at a corner of the frame, a corner clamp comprising a unitary, rigid member formed with bar-contacting faces holding the bars in fixed angular relation and hook-bolts mounted in the said member and hooked over the bars to hold the latter respectively against the said faces, one of the bars being formed on its inwardly-facing side with a toe portion, work-anchoring pins mounted on the said toe portion, and work-anchoring pins pivoted on the outer face of the other bar, on axes transverse thereto and parallel with the plane of the frame, the pivotal axis of each of the last said pins being closer to the work-facing side of the bar than the length of the pin.

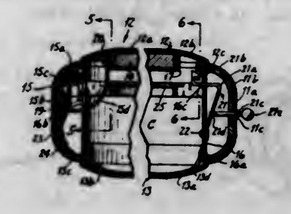
1,686,369. OIL-CHANGE RECORDING DEVICE. FRANCIS A. COOK, San Diego, Calif. Filed Oct. 11, 1926. Serial No. 140,837. 3 Claims. (Cl. 40—68.)



1. In a device of the class described, a casing provided with an opening at its front side, a spindle mounted in said casing in line with said opening, a plurality of drums

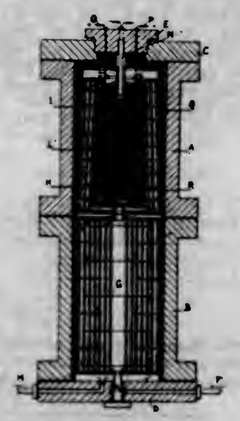
mounted on said spindle and provided with gear teeth near their corresponding edges, said drums being provided on their outer faces with recording numerals, a slide reciprocally mounted adjacent said drums and in line therewith, a spindle reciprocally mounted in said slide and extending toward the axis of said first mentioned spindle, a pinion mounted at the inner end of said last mentioned spindle and adapted to engage the gear teeth of said drums, and a knob provided at the opposite end of said last mentioned spindle.

1,686,370. VANITY CASE. CHARLES ALBERT EYMAN, New York, N. Y. Filed Mar. 14, 1927. Serial No. 175,024. 9 Claims. (Cl. 132—83.)



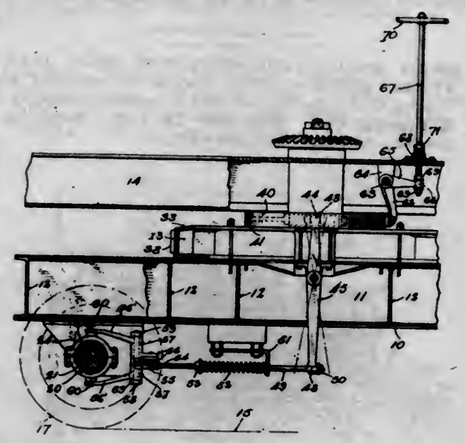
1. A vanity case of the character described comprising an annular-shaped tubular casing, a bottom closure forming a compartment in the casing, a hinge secured to an interior side of the tubular casing structure and extending through said structure, and a cover forming a closure for the casing supported by said hinge to normally conceal the latter when in closed position.

1,686,371. APPARATUS FOR THE PRODUCTION OF SYNTHETIC AMMONIA. GIACOMO FAUSER, Novara, Italy. Filed Aug. 21, 1925, Serial No. 51,705, and in Italy Sept. 24, 1924. 4 Claims. (Cl. 23—289.)



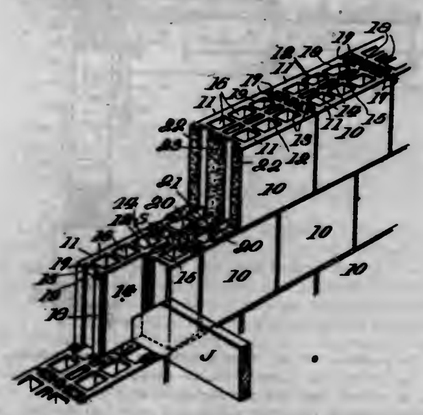
1. An apparatus wherein chemical reactions at high temperature and pressure are conducted, comprising a reaction chamber, an enclosing wall spaced from said chamber and adapted to withstand internal pressure, a heat exchanger in the space between the reaction chamber and said enclosing wall, said exchanger comprising tube sheets and a plurality of tubes extending longitudinally of said reaction chamber, and a body of heat-insulating material surrounding said reaction chamber, the thickness of said body varying directly with the temperature gradient in said heat exchanger.

1,686,372. STEERING MECHANISM. MITCHELL L. FYKES, Milwaukee, Wis., assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis., a Corporation of Delaware. Filed May 31, 1922. Serial No. 565,002. 5 Claims. (Cl. 180—9.2.)



1. In a machine having a base frame and a head frame rotatably mounted thereon, the combination of a creeping traction support for said base frame, means including a clutch mechanism through which power may be applied to said creeping traction support to cause said machine to travel in a straight line direction, actuating mechanism for said clutch mechanism, and a slip connection between said head frame and said actuating mechanism to effect a turning movement of said machine by rotation of said head frame; said slip connection being such as to yield to excessive rotation of the head frame.

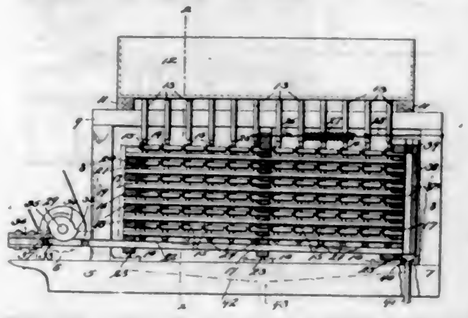
1,686,373. BUILDING BLOCK OR TILE CONSTRUCTION. HARRY D. FOSTER, Washington, D. C. Filed June 14, 1926. Serial No. 115,840. 4 Claims. (Cl. 72—41.)



1. In a hollow wall, a plurality of integral hollow units each having mortar-supporting face shells and a plurality of cross and longitudinal shells and webs, said cross and longitudinal shells and webs being individually incompetent to sustain mortar, two of said longitudinal webs being arranged close together whereby to sustain mortar, said units also having end projections on said cross shells

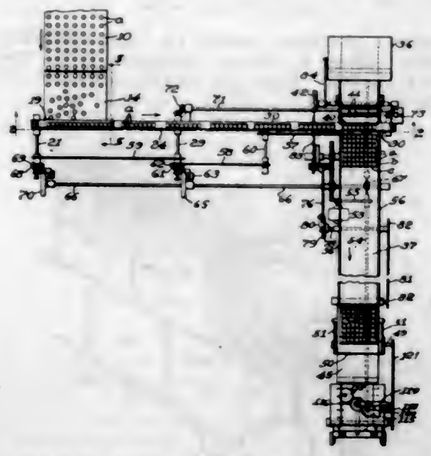
in the line of said face shells and longitudinal webs whereby to support spaced mortar joints, and spaced mortar joints on said face shells and juxtaposed longitudinal webs and on said end projections to connect said units, whereby at least two independently sealed and separate air chambers are formed in the wall intermediate its faces.

1,680,374. MACHINE FOR SEPARATING SEEDS. DAVID FRANKS, Millersburg, Ohio, assignor of one-third to Charles K. Franks and one-third to Samuel Franks, Jr., Millersburg, Ohio. Filed July 29, 1927. Serial No. 209,263. 6 Claims. (Cl. 209—480.)



1. In a machine of the class specified, the combination of a reciprocating carrier having spaced flat separator plates fixed therein and spaced apart at the adjacent sides to provide discharge openings, and partition means under said plates.

1,686,375. CONFECTIONERY-PACKING MACHINE. JESSE W. GREER, Cambridge, Mass. Filed July 11, 1927. Serial No. 204,822. 19 Claims. (Cl. 226—16.)

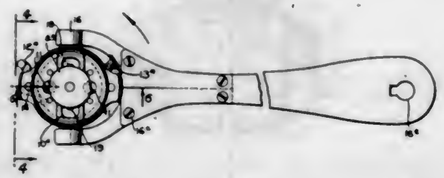


1. In a device of the class described, in combination, a belt for conveying paper spacers along a predetermined path, a second belt for advancing spaced groups of confections toward the first mentioned belt and having the delivery end portion of its upper run positioned over the first mentioned belt and adapted to deposit a group of confections in a row upon each spacer as the successive spacers are advanced under the discharge end portion of the second belt.

5. In a box filling machine, in combination, means for depositing confections upon cardboard sheets, means for supporting a box in a tilted position to receive the loaded sheets, means for depositing the loaded sheets in the box one above the other, and means for gradually lowering the box as the loaded sheets accumulate therein.

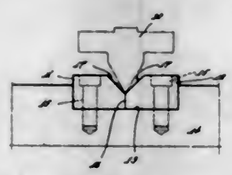
16. In a box filling machine, in combination, means constructed to project under the side edges of a loaded sheet and to support the same so that the supporting means will enter a box as the box is raised to receive the loaded sheet, mechanism for supporting a box and operable to raise the same to receive the loaded sheet, and means for operating the sheet supporting means to cause it to release the sheet within the box.

1,686,376. WRENCH. TRYGVE S. HANNES and RALPH HANNES, San Diego, Calif. Filed Sept. 10, 1926. Serial No. 134,665. 15 Claims. (Cl. 81—185.)



1. In a wrench, an outer socket, a plurality of other sockets mounted within the outer socket, an annular member mounted on said outer socket, reversible ratchet and pawl means operatively connecting said annular member with said outer socket, a handle pivotally connected to said annular member, and means in connection with said handle and said ratchet and pawl means whereby said ratchet and pawl means is reversed when said handle is shifted from one position to its opposite position relative to said annular member.

1,686,377. V REST FOR KNIFE EDGES. BENGT M. W. HANSON, deceased, Hartford, Conn., by Einar A. Hanson, West Hartford, Conn., and Clarence E. Whitney, Hartford, Conn., executors; now by resignation Einar A. Hanson, sole executor. Original application filed July 9, 1923, Serial No. 650,292. Divided and this application filed Nov. 11, 1926. Serial No. 147,758. 2 Claims. (Cl. 308—2.)

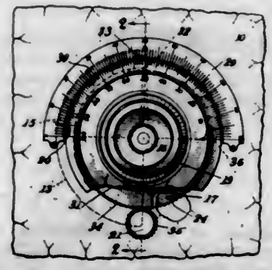


1. A knife rest including a pair of alined blocks positioned end to end and having the adjacent corners at the meeting faces similarly bevelled to form a V.

1,686,378. VARIABLE ELECTRIC CONDENSER. GEORGE W. HEATH, Newark, N. J. Filed May 3, 1924. Serial No. 710,934. 1 Claim. (Cl. 116—124.)

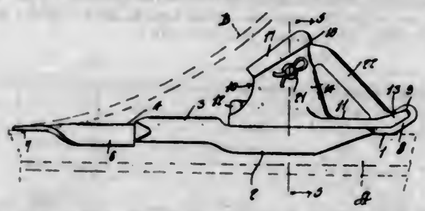
Radio apparatus including a support, two mechanism controlling shafts comprising a main shaft and a secondary shaft eccentrically disposed and offset from each other, and both journalled in the support, a knob on the main shaft provided adjacent its periphery with a main dial, means secured to the support and providing a second dial disposed concentrically of the main shaft and exposed at the periphery of the main dial, a pointer journalled on the main shaft, positioned between the support and the main

knob and having its end exposed exteriorly of the main knob and movable across the second dial to coact therewith, a secondary knob exposed adjacent the periphery



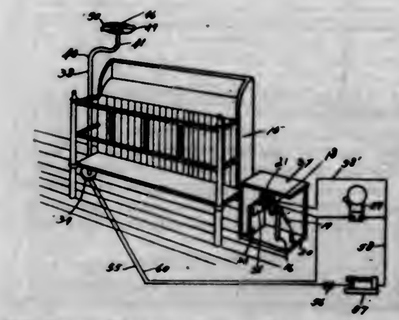
of the main knob and secured to the secondary shaft and a driving connection between the secondary shaft and said pointer.

1,686,379. TRACK CHOCK FOR CAR WHEELS. MARTIN HERREN, Newton, Iowa. Filed Aug. 25, 1927. Serial No. 215,395. 1 Claim. (Cl. 104—260.)



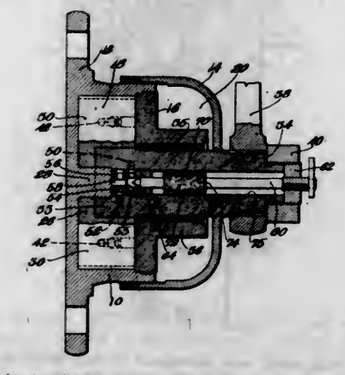
A track chock for car wheels, comprising a channelled member having an upwardly offset portion at one end, the other end of said member up-turned and its extremity rebent to form a hook, a pedestal secured to said channelled member and having an up-turned end to engage the first-mentioned up-turned portion and engaged in said hook, a channelled plate having a tongue secured under the upwardly offset portion of the first-mentioned member, said channelled member and plate being adapted to seat on a railroad rail, the pedestal provided with a recess, a brake shoe, a tongue on said brake shoe engaging in said recess and having a slotted opening therethrough, and securing means engaging said pedestal and through said slotted opening.

1,686,380. ELECTRICALLY-OPERATED SHUT-OFF FOR GAS BURNERS AND ALARMS. JOSEPH HELMBERGER, Philadelphia, Pa. Filed Mar. 8, 1927. Serial No. 173,692. 1 Claim. (Cl. 67—116.)



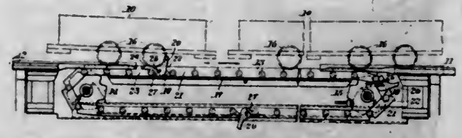
In a device of the character stated, an open flame burner and supply pipe leading thereto, a shut-off valve in said pipe and a lever to operate said valve, an electrically operating holding mechanism, a catch having one end pivoted to the valve lever and the other end co-operating with the holding mechanism, a spring between the lever and catch and another spring having one end anchored and the opposite end connected with the lever to actuate the latter in that direction which will close the valve upon release of the catch by the holding mechanism.

1,686,381. SHOCK ABSORBER. MELVIN R. JENNEY, Melrose, Mass., assignor to James J. Caffrey, trustee, Boston, Mass. Filed July 9, 1925. Serial No. 42,534. 6 Claims. (Cl. 188—100.)



1. A shock absorber for motor vehicles comprising a casing having a chamber adapted to contain a cushioning liquid, a shaft projecting within the casing, an arm connected to the shaft and adapted to oscillate the latter upon spring flexure, a piston connected with the shaft, a partition having a valve controlled orifice through which oil is forced by movement of the piston, and means for automatically adjusting the size of the orifice in accordance with variations in temperature of the cushioning liquid in the chamber.

1,686,382. CAR-TRANSFER APPARATUS. GEORGE M. JOHNSON and KARL HENDRIK SUNDVIK, Jeannette, Pa., assignors to Fort Pitt Mine Equipment Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 9, 1927. Serial No. 166,977. 8 Claims. (Cl. 104—137.)

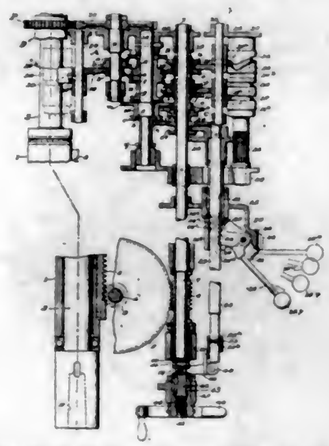


1. Conveyer chain structure comprising links, a stop member pivotally mounted on one of said links, a link pivotally connected to the first-named link at a point rearwardly of the stop member, and a seating surface on the second-named link having a projection which extends to a point intermediate the two pivotal points and serving as an abutment for limiting pivotal movement of the stop member in one direction.

1,686,383. CAM-CONTROLLED TWENTY-FOUR-SPEED MECHANISM. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 5, 1925. Serial No. 28,214. 5 Claims. (Cl. 74—57.)

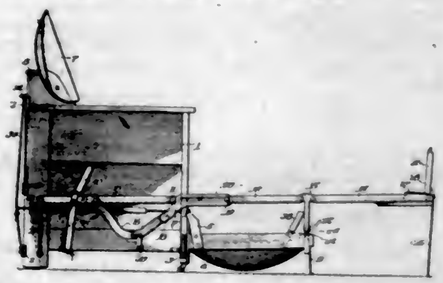
1. A multiple speed mechanism combining a prime-mover; a rotatable member; means operatively connect-

ing said prime mover with said rotatable member, said means including a plurality of shiftable gears; means to shift said gears selectively to produce any one of a plurality of drives between said prime mover and said member, said gear shifting means comprising a lever movable in transverse planes; a rotatably and translatably mounted shaft; two operative connections between said lever and said shaft, whereby movement of said lever in one plane



rotates said shaft and movement of said lever in another plane transiates said shaft; a gear shifter secured to said shaft and adapted to shift one of said shiftable gears by the axial movement of said shaft; a rotatable cam operatively connected to actuate another of said gear shifters; and an operative connection between said shaft and said cam to cause said cam to be rotated by the rotary movement of said shaft.

1,686,384. DAVENPORT BED. CHARLES I. LAMB, Nashville, Tenn., assignor to The Seng Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 4, 1922. Serial No. 604,681. 13 Claims. (Cl. 5—14.)



3. In a davenport bed, a frame, a sectional bed bottom of three or more sections mounted for folding therein, comprising a depending truss member between the two outermost sections, a seat invertibly mounted at the front of the frame independent of any connection with the bed bottom having a fixed support at its outer side when inverted, and means on the underside of the seat at the outer edge thereof for providing an engaging surface for the truss member.

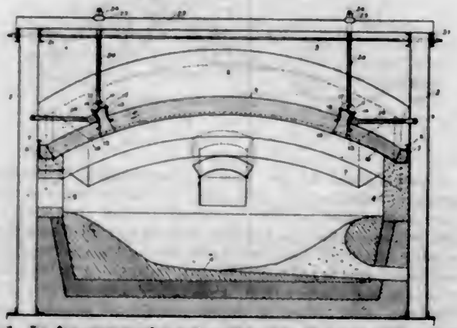
5. In a davenport bed, a sectional folding bed bottom, a frame therefor, and means for pivotally mounting and supporting the bed bottom in the frame, said means comprising an angle lever pivoted at each side of the frame one end of which is connected to the rear bed section, and a slotted member pivoted to the other end of the angle lever and having a sliding connection with another bed section.

1,686,385. MICROPHONE. HUGO LICHTE, Kiel, Germany, assignor to Signal Gesellschaft mit beschränker Haftung, Kiel, Germany. Filed Aug. 30, 1922, Serial No. 660,114, and in Germany Sept. 7, 1922. 9 Claims. (Cl. 117—386.)



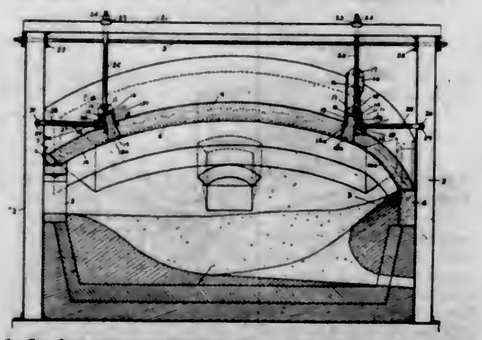
4. A microphone of the type described including a vibrating structure possessing a substantially constant elastic force and microphonic material operating in conjunction with said vibrating structure upon the receipt of a signal possessing a varying elastic force, the said constant elastic force being substantially the greater part of the total elastic force of the said microphone, whereby the frequency of said microphone is at all times substantially unchanged.

1,686,386. FURNACE-ROOF CONSTRUCTION. FRED H. LOFTUS, Pittsburgh, Pa. Filed Apr. 5, 1927. Serial No. 181,062. 16 Claims. (Cl. 263—46.)



1. In furnace roof construction a roof portion of chemically neutral material adjacent a wall of the furnace, and means interposed between said portion and the remainder of the roof arranged to assume the load and thrust of the remainder of the roof.

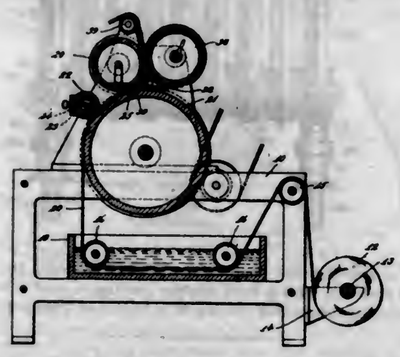
1,686,387. ROOF AND WALL CONSTRUCTION FOR OPEN-HEARTH FURNACES. FRED H. LOFTUS, Pittsburgh, Pa. Filed May 24, 1927. Serial No. 193,784. 12 Claims. (Cl. 263—46.)



1. In furnace construction the combination of an abreviated wall, an independently supported roof section proper, and a wall and roof portion of refractory material

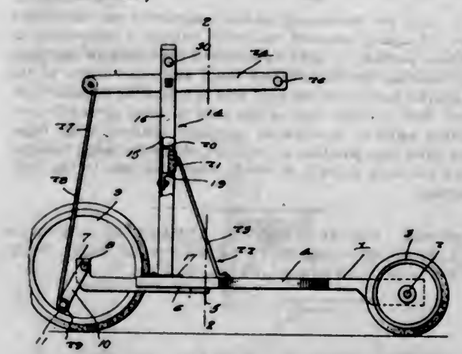
rising from the abbreviated wall and meeting the roof portion at a point inwardly of the furnace and at such height that said wall and roof portion takes the place of the deleted portion of the abbreviated wall.

1,686,388. PAPER-CRINKLING MACHINE. WILLIAM A. LORENZ, West Hartford, Conn., assignor to The Otaka Fabric Company, West Hartford, Conn., a Corporation of Connecticut. Filed Mar. 18, 1927. Serial No. 176,424. 14 Claims. (Cl. 92—69.)



1. The herein described method of making paper elastic in all directions, which consists in crinkling a wet paper web laterally and forming longitudinally extending grooves in the crinkled paper while it is still wet.

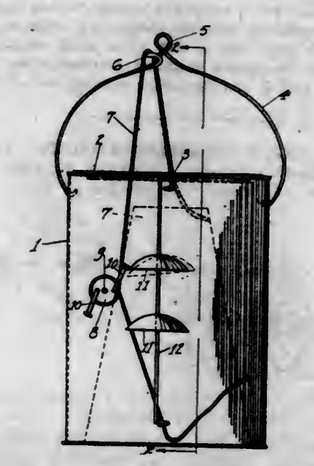
1,686,389. TOY VEHICLE. BERT B. MARTIN, Marion, Ohio. Filed Apr. 7, 1927. Serial No. 181,780. 5 Claims. (Cl. 208—33.)



1. In a toy vehicle of the class described, a comparatively low platform, an axle at the rear end thereof, comparatively small wheels mounted for rotation on the ends of the axle and on opposite sides of the platform, a single and comparatively large steering wheel located in advance of the forward end of the platform, and a steerable connection between the front wheel and said platform, said connection comprising a block located on the under side of the platform, straps carried by and extending beyond said block, said straps being provided with bearings, and said front wheel having a shaft rotatable in said bearings.

1,686,390. ADVERTISING DEVICE. FRANK C. MEYERS and HANS S. OBRENDORFER, Cincinnati, Ohio. Filed July 19, 1926. Serial No. 123,427. 1 Claim. (Cl. 242—146.)

A string dispenser comprising a container for string, a supply of string, a guide for said string from the container to a dispensing position, a rotatable member disposed in the path of said string about which said string is looped and an alarm operatively connected with said

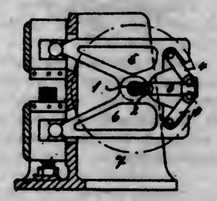


rotatable member, said alarm comprising at least one bell, and clappers carried by said rotatable member adapted to strike said bell.

1,686,391. PROCESS OF PRECIPITATING HEAVY METALS FROM AMMONIACAL SOLUTIONS. CARL MÜLLER, Mannheim, and LEO SCHLECHT and WALTER SCHUBARDT, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 11, 1927, Serial No. 174,696, and in Germany Apr. 9, 1926. 6 Claims. (Cl. 75—600.)

1. The process of precipitating heavy metals from ammoniacal solutions of heavy metal compounds which consists in treating the solution with a reducing gas under elevated pressure and at an elevated temperature so as to effect a substantially complete separation of the heavy metals.

1,686,392. SHEARS FOR CUTTING BLOCKS OR BARS. ALBERT NÖLL, Duisburg, Germany. Filed Dec. 31, 1924, Serial No. 759,066, and in Germany Jan. 19, 1924. 4 Claims. (Cl. 164—41.)

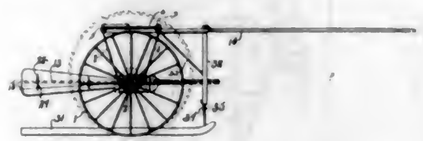


1. In block and bar shears of the kind in which the cutters have a rectilinear movement in opposite directions to cut the blocks or bars, the combination of two cutters adapted to have a rectilinear movement imparted to them, two levers to adjacent ends of which respectively the cutters are connected, a common shaft upon which the said levers are mounted to have movement on a common axis, and toggle lever mechanism for imparting movement to the said levers, substantially as described.

1,686,393. METHOD FOR PREVENTING THE BLACKENING OF TINNED FOODS. KOKICHI OSHIMA, Sapporo, Japan. Filed Feb. 19, 1927, Serial No. 169,679, and in Japan Mar. 1, 1926. 3 Claims. (Cl. 99—8.)

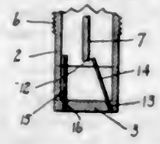
2. A method which comprises adding to fish food to be canned, a regulating mixture comprising common salt, a weak organic acid and a salt of a weak organic acid, which mixture is capable of giving a hydrogen-ion content equal to pH 4 to 7, and thereafter canning and sterilizing.

1,686,394. INSECT-GATHERING MACHINE. JAMES P. OWENS, Weatherford, Tex. Filed Oct. 26, 1925. Serial No. 64,783. 4 Claims. (Cl. 43—142.)



1. An insect destroying machine having a receptacle for receiving insects, relatively long revolving shafts, front blades pivotally connected together at their front ends and rear blades pivotally connected together at their front ends and having their rear ends relatively wide and tapering towards the front and all operatively connected to said shafts, means for adjustably attaching said blades to said shafts at their rear ends for varying the taper of said blades, the distribution of said blades in front and in the rear serving to balance the machine and affording extended agitation of the plants.

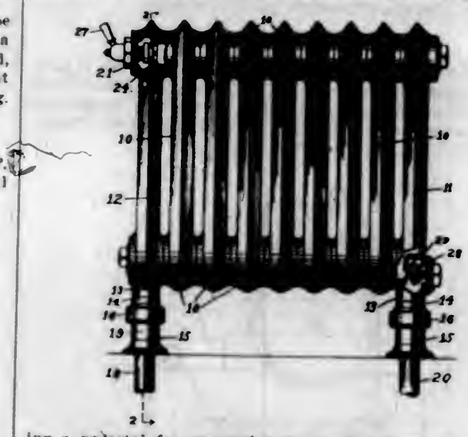
1,686,395. SPARK PLUG. GEORGE H. RICKE, Cincinnati, Ohio. Filed Dec. 16, 1927. Serial No. 240,589. 3 Claims. (Cl. 123—169.)



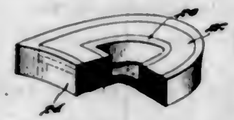
2. A spark plug, including a metallic shell having a depending skirt, arms depending from the skirt, an imperforate disk-shaped baffle carried by the arms in spaced relation to the lower edge of the skirt, a central electrode extending into the skirt and terminating within the latter, and a pair of malleable electrodes attached to said disk-shaped baffle and projecting upwardly and terminating within the skirt, one of said malleable electrodes having its upper end arranged in close proximity to the lower end of the central electrode.

1,686,396. RADIATOR. THOMAS A. RIDDER, Wollaston, Mass. Filed Mar. 6, 1926. Serial No. 92,896. 2 Claims. (Cl. 257—151.)

1. A radiator, comprising in combination, a series of connected heat radiating sections, one of said sections being divided vertically by an interior wall to form a separate conduit at one side of the section, a vertically disposed inlet port formed centrally of the lower end of said section, said wall being bent at its lower end to form a curved passage communicating with the vertically disposed inlet port, a valve at the upper portion of said conduit for controlling the passage of fluid from the conduit into the remaining portion of the section, a hollow leg having a pedestal for supporting the section from the floor and provided with a fluid passage leading to said port, and means for connecting the leg to a source of fluid supply.

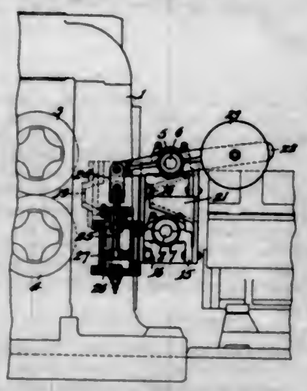


1,686,397. HEEL FOR BOOTS AND SHOES. CLIFFORD ROBERTS, Reigate, England. Filed Mar. 5, 1924. Serial No. 697,153. 1 Claim. (Cl. 36—35.)



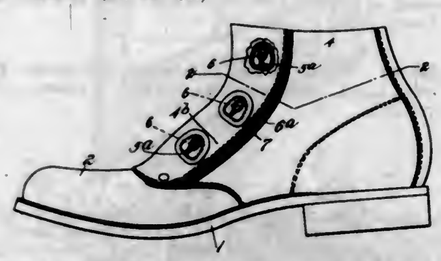
A heel for boots and shoes comprising an unyielding core of nail-penetrable material having a generally U-shaped portion, a body of resilient vulcanizable material surrounding the bottom and inner and outer sides of the U-shaped portion of the core, and terminating substantially flush with the top face of the core to form upwardly projecting walls of substantial thickness bonded to the inner and outer side portions of the core, the walls being integral with the body portion to firmly unite the core to the body portion.

1,686,398. METAL-SCRAPING APPARATUS. WILLIAM J. STOOP, Wheeling, W. Va. Filed Nov. 24, 1925. Serial No. 71,241. 3 Claims. (Cl. 29—81.)



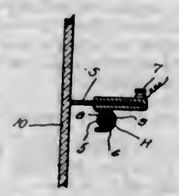
1. A sheet bar scraper comprising a pair of aligned rotary shafts mounted each upon opposite sides of the path of travel of sheet bars to a set of reducing rolls, a forwardly extending arm carried by each of said shafts and having ends extending inwardly at right angles to the path of travel of said bars, said ends of the arms forming opposed jaw members, scraper blades carried by said jaw members, and means to rotate the shafts and thereby the arms toward each other and into engagement with said sheet bars whereby to exert a scraping action to remove foreign matter from said bars.

1,686,399. WORK SHOE. ALBERT L. ROHRBACHER, JR., Boston, Mass. Filed Nov. 20, 1926. Serial No. 149,612. 2 Claims. (Cl. 36—50.)



1. A safety shoe embracing in its construction an upper cut to form mutually overlapped flaps to close a vent opening therein extending downward from the top edge of the upper on the outer side of the shoe, a stud-carrying strip secured to the outside face of the underneath flap with said flap interposed between the studs and an inserted foot, a plurality of coacting quickly releasable fastener members secured to the exterior flap of the upper in position to releasably engage the studs carried by said strip, and a vent-sealing tongue whose inner edge portion is secured to the outside face of the underneath flap and whose outer edge portion is secured to the inside face of the exterior flap.

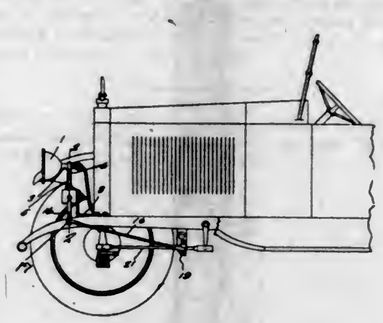
1,686,400. WINDSHIELD WIPER. GLENN P. TREGO, Mexico, Pa. Filed Nov. 8, 1927. Serial No. 231,941. 1 Claim. (Cl. 15—255.)



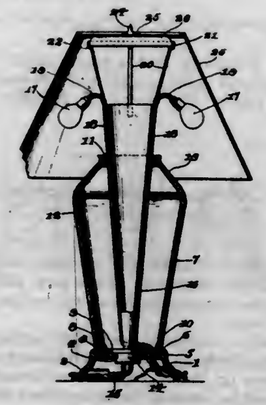
In combination, a windshield wiper blade comprising a frame, a squeegee in the frame, an elongated heat insulating shield on the frame longitudinally thereof, said shield being U-shaped in cross section and having one side secured to the frame, a tube in said shield longitudinally thereof, a core with a resistance coil wound thereabout disposed in the tube and means for placing the resistance coil in an electric circuit.

1,686,401. DIRIGIBLE HEADLIGHT. JOHN NELSON ARMSTRONG, New Castle, Pa. Filed June 3, 1927. Serial No. 196,348. 1 Claim. (Cl. 240—62.)

A dirigible lamp for vehicles comprising a casing, means for attaching it to a vehicle, said casing having a threaded hole in its top, an exteriorly threaded bushing passing through said hole, a lamp standard rotatably supported in the bushing and held against longitudinal movement therein, a lamp, a clamp engaging a part thereof, a horizontal pivot connecting the clamp with the upper end of the standard, a horizontal shaft rotatably arranged in the casing, gears connecting said shaft with the lower end of the standard, one end of the shaft extending through the casing and having a split socket therein, an arm fitting in the socket, clamping means for holding the arm in the socket, said arm having its outer end bent and a link connecting the bent end of the arm with the drag link of the steering mechanism of the vehicle.



1,686,402. LAMP AND LOUD SPEAKER. HAROLD O. BAKER, Pontiac, Mich. Filed Apr. 16, 1927. Serial No. 184,379. 4 Claims. (Cl. 181—27.)

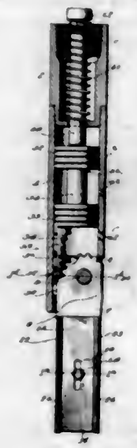


1. In an article for the purpose set forth, supporting means, a horn mounted therein and extending thereabove, a set of upstanding arms secured to and projecting above the upper end of said horn, illuminable elements suspended adjacent the upper end of the horn, a band connected to said arms, and means mounted on the arms and surrounded by the band for suspending a lamp shade.

1,686,403. ROTARY REAMER. ALEXANDER BOYNTON, San Antonio, Tex. Filed May 13, 1925. Serial No. 30,014. 9 Claims. (Cl. 255—76.)

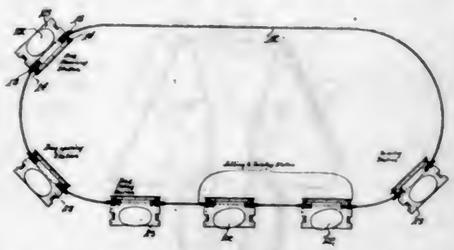
1. A reamer for use in wells comprising a casing, a reamer blade pivotally mounted on the casing, fluid pressure operated means for swinging the reamer blade com-

prising a piston, said casing having a cylinder in which the piston is fitted, motion tranamission means between the



piston and the blade, and lubricating means for the piston having a feed member directly exposed to and actuated by the fluid pressure in the casing.

1,686,404. SACK FILLER. ROBERT LEE CALLAHAN, Louisville, Ky. Filed Sept. 18, 1926, Serial No. 136,295. Renewed Apr. 11, 1928. 23 Claims. (Cl. 226—55.)



1. A sack filler comprising a movable carriage, means thereon to support the mouth of the sack, and a vibrating platform on the carriage on which the bottom of the sack continually rests.

4. A sack filler comprising a movable carriage, means on the carriage for holding the mouth of the sack, and an oscillating platform on the carriage for receiving the bottom of the sack and for twisting the same about the axis of the sack.

23. A sack filler comprising a carriage, a track for the carriage having an undulating portion, means for holding the mouth of the sack in open position, a movable mounted hopper on the carriage above the sack, an oscillating platform on the carriage below said means and for receiving the bottom of the sack, and means for oscillating said platform when the carriage is passing over the undulating part of the track.

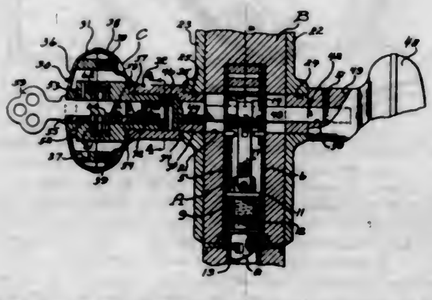
1,686,405. MANUFACTURE OF CONTAINERS OR CAPSULES. ROBERT HUNTER CAMPBELL, Upper Edmonton, England. Filed July 13, 1928, Serial No. 292,498, and in Great Britain July 11, 1927. 3 Claims. (Cl. 29—148.2.)

1. In the manufacture of containers or capsules of the kind referred to from thin metal, the steps of making the body part and at the same time forming a neck part of thickened wall section, weakening the neck part by forming an annular groove on the exterior of the neck, and applying pressure at the outer end of the neck thereby causing it



to collapse and turn inwardly at the weakened part thus forming an internal shoulder adapted to act as a seat for a closing part.

1,686,406. LOCK. ISADOR A. CAPLAN, Pittsburgh, Pa. Filed Apr. 4, 1927. Serial No. 180,876. 6 Claims. (Cl. 70—91.)

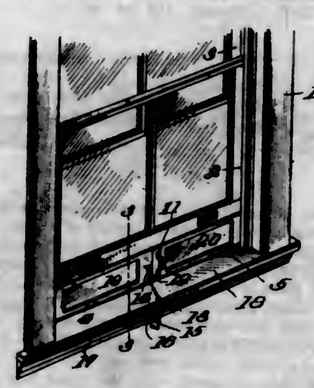


1. A key operated closure lock actuator comprising a spindle having a head formed at one end thereof provided with a transverse slot opening at the outer face of the head, a grip portion swivelly coupled to the spindle head, a cylinder lock mounted in the grip portion and embodying a rotatable key released plug in axial alignment with the axis of said spindle, said plug having a lug projecting from its inner end, a keeper mounted against rotation between the plug and spindle head and embodying a cam face in confronting relation with the inner end of the lug and a shank portion movable by contact of said lug with the cam face into the slot of the spindle head for coupling the grip portion for rotation with the spindle, and spring means for normally urging the shank portion out of coupled engagement with the spindle head.

1,686,407. WINDOW VENTILATOR. EDWARD L. CLARKE, Scranton, Pa. Filed Dec. 30, 1925. Serial No. 78,405. 1 Claim. (Cl. 98—88.)

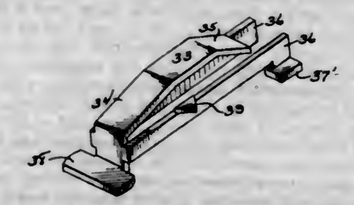
A ventilator for application to a window frame having side grooves for a sash and a transversely slanting longitudinally shouldered sill, said ventilator comprising two sections hinged together on their outer faces and adapted to be positioned beneath said sash with the ends of said sections seated in said grooves; a flexible connection attached to the inner face of one of said sections adjacent its hinged end and adapted for attachment to a support, said connection constituting a means for breaking said ventilator at the hinge point whereby the section ends may be removed from said grooves, said connection further preventing said ventilator from falling out of the window when inserting or removing the same; said ventilator sections being rounded top and bottom whereby to meet and tightly contact against the adjacent sash rail bottom and the sill regardless of the transverse angle the same may have whereby to tightly seal the space between the said sash rail and window sill and permit the admission of air into the room between the top rail of said sash and the bottom rail of its companion sash; and the hinge of said sections being arranged to permit movement of the connected

ends of the sections into the room upon elevation of the ventilator to clear the lower edge from said shoulder, said hinge preventing movement of the ends of said sections outwardly of the plane of said opposed frame grooves



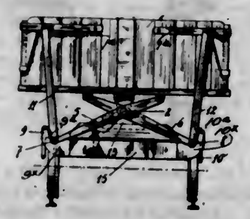
whereby the said grooves and the sill shoulder cooperate with said sections to hold the ventilator in place and against falling outwardly from said window when put in place.

1,686,408. ALARM ATTACHMENT FOR CLOCKS. GILBERT J. DIETRICH, Beaumont, Tex. Filed Sept. 20, 1926. Serial No. 136,631. 1 Claim. (Cl. 200—36.)



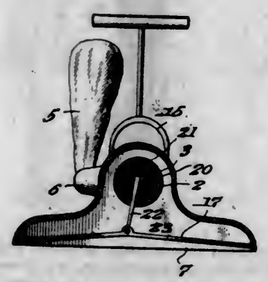
In a device of the class described, an insulated annular channel element having inturned flanges, a movable contact element mounted in the channel and adapted for cooperation with an element movable in a circular path, said contact element comprising a plurality of arms, foot members carried by the arms and engaging the flanges of the channel element, and a resilient element connected with the arms, the resilient element being free at one end thereof and being downwardly deflected, and one of the arms including a laterally extending pointer.

1,686,409. BODY-TIPPING WAGON. KARL GRUER, Bad Oeynhausen, Germany. Filed June 16, 1927, Serial No. 199,368, and in Germany June 21, 1926. 3 Claims. (Cl. 105—277.)



1. In a dump car, a car body having movable sides, each movable side having end bars pivoted to the ends of the car body, a truck, a pivotal mounting between the car body and the truck, arms pivoted to the truck, one end of each arm arranged to engage the bottom portion of the body when the latter is in normal position, the other end of each of said arms having a pivot, levers having their lower ends mounted on the pivots and their upper ends pivoted to the bars on the movable sides, and locking devices pivoted on the truck to engage the pivots between the arms and levers to lock the body in normal position.

1,686,410. VACUUM CLEANER. ERNEST CORAL KILLEBREW, Evansville, Ind. Filed Nov. 19, 1926. Serial No. 149,370. 3 Claims. (Cl. 15—13.)



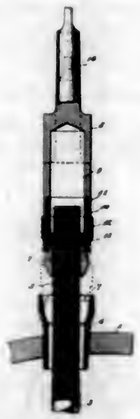
1. In a vacuum cleaner provided with a motor, a motor shaft, and a nozzle having a suction mouth, an elongated, flexible beating device whose end parts are connected to the suction mouth and whose intermediate part is free to vibrate within said suction mouth, a crank on the motor shaft, and a rod connecting said crank and said intermediate part of the beating device.

1,686,411. UNION OVERALLS. CLAUDE S. KOHLER and MAX N. KOHLER, New Orleans, La. Filed Mar. 7, 1928. Serial No. 259,849. 2 Claims. (Cl. 2—237.)



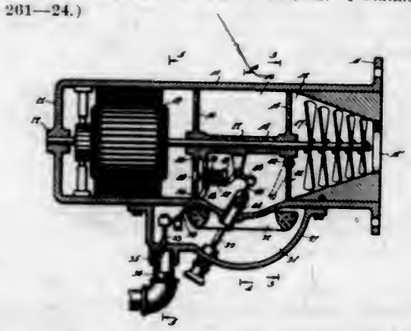
1. A union garment comprising a shirt, trousers having a waist band of inner and outer sections clamped about, and secured to, the lower gathered portion of said shirt, and a pair of tabs secured at each side of said waist band and each composed of inner, wide portions and outer narrow elongated tongues, the inner wide portions abutting together and having oppositely overlapped end portions folded in against the trouser band, lines of stitching passing through said tabs and the folded over end portions and also through the waist band, said tabs having relatively offset vertically elongated button holes upon the inner portions of the tabs and having horizontally elongated button holes at the outer tip portions of the tongues, and pairs of buttons secured to the waist band for engaging said button holes, a pair for engaging each tab, the inner buttons being spaced on the waist band from the points of attachment of the tabs at greater distance than the inner button holes from the same point of attachment, each pair of buttons being spaced apart on the waist band at greater distance than between corresponding button holes on the tabs and tongues even when the inner buttons are engaged with the inner button holes.

1,686,412. DRIVER CHUCK. HARRY A. LACERDA, Watervliet, N. Y. Filed July 8, 1927. Serial No. 204,396. 1 Claim. (Cl. 81—120.)



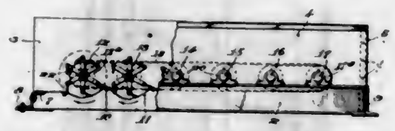
A chuck adapted for turning stay-bolt expansion nuts, comprising a tubular member having an internally tapered toothed or serrated outer end for engagement with a stay-bolt expansion nut, a body coupled to the member, said body and member having a longitudinal bore of a diameter and length to freely accommodate a stay bolt while the device is engaging a nut on the stay bolt.

1,686,413. FUEL-MIXING AND SUPERCHARGING DEVICE. PHILIP JOSEPH LARONDE, Manchester, N. H. Filed Mar. 29, 1927. Serial No. 179,381. 1 Claim. (Cl. 261—24.)



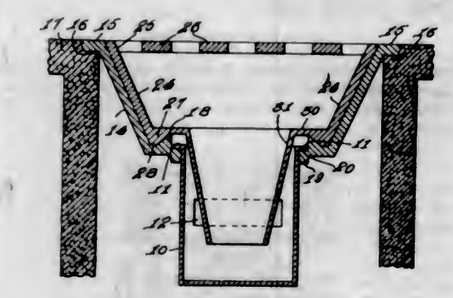
A carburetor comprising a casting, a plurality of partitions dividing the casting into an intermediate chamber and end chambers disposed in alinement, a pair of fuel nozzles projecting into the intermediate chamber, one of the partitions having an opening in the lower portion, a throttle valve closing the opening, a fan mounted in the end chamber adjacent the throttle for aiding in forcing a combustible mixture from the intermediate chamber and through the end chamber, means located in the other end chamber for causing rotation of the fan, the partition adjacent the second end chamber having openings adjacent the lower end thereof, an opening being in line with a nozzle, a casting adjacent the second mentioned chamber and provided with a valve controlled air inlet, a valve controlling one of the openings in the second mentioned partition and automatically moved by the air to open position, a valve controlling the nozzle adjacent the last mentioned opening and actuated in accordance with the position of the air actuated valve.

1,686,414. COTTON CLEANER. RUFUS EDWARD LEE, Wichita Falls, Tex., assignor of one-half to The Panhandle Steel Products Company, Wichita Falls, Tex., a Corporation of Texas. Filed Apr. 20, 1928. Serial No. 271,589. 2 Claims. (Cl. 19—35.)



1. A machine unit for cleaning cotton, comprising a flat rectangular base frame composed of a pair of parallel elongated side members of structural steel connected by a pair of end members rigidly and integrally secured thereto, the upper faces of the two parallel side members lying in the same plane, a rectangular vertical enclosing body composed of side and end members of relatively thin metal coterminous with the side and end members of the base frame and secured within and upon the same, a series of journal bearings mounted upon the upper horizontal face of each side member of the base frame, outside the thin metal body, said journal bearings being in pairs on opposite sides of the base frame, each pair having a common axis and all of said axes lying parallel to each other and transverse to the upper faces of the base frame, a series of parallel driving shafts, one for each pair of bearings, extending across the inside of the body above the base frame with their ends passing through the body on both sides and journaled in said bearings, a plurality of sleeves fitted upon each shaft within and between the sides of the body, a plurality of spider arms upon each sleeve, and a flailing arm pivoted upon the outer end of each spider arm, a plurality of cross bars extending from side to side of the base frame between and below the respective adjacent pairs of driving shafts, and parallel therewith, a foraminous metal bed extending across and within said base frame from one side to the other and from one end to the other, said bed being supported upon said cross bars and formed into cylindrically curved sections between the same, each section concentric with and underlying a driving shaft at a radial distance therefrom greater than the length of its spider arms, driving means mounted upon the ends of the shafts, means interconnecting said driving means, and means for applying power thereto.

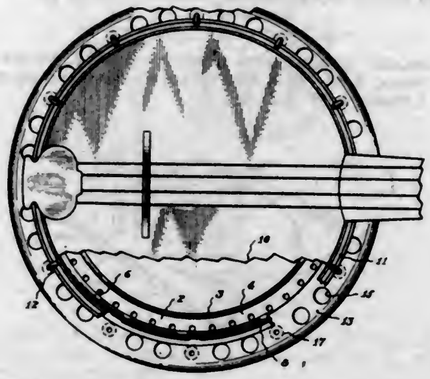
1,686,415. TRAP FOR DRAINS AND SEWERS. JAMES LYES, New York, N. Y. Filed Sept. 20, 1926. Serial No. 136,645. 3 Claims. (Cl. 182—20.)



1. In a device of the class described, a container having an opening in the side wall thereof, a funnel-shaped device extending into the container below the opening thereof, providing a water seal, an upwardly and outwardly flared element projecting from the upper edge of the funnel and offset from the wall of the funnel to provide an inwardly

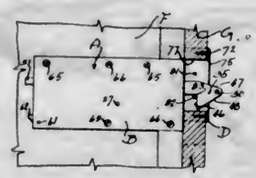
extending portion, and a dished member receiving the flared element and having a flange for engaging the container at a point below the inwardly extending portion of the flared element.

1,686,416. BANJO. HERMAN F. MIETZ, Franklinville, N. J. Filed Apr. 30, 1925. Serial No. 27,022. 2 Claims. (Cl. 84—269.)



1. In a banjo, a supporting head rim, a skin head and clamping ring therefor, a sound outlet ring operatively carried by the supporting head rim and being located beneath the skin head, a skin head carrying ring with means for supporting it on the sound outlet ring, the skin head being clamped between the skin head carrying ring and the clamping ring, said sound outlet ring having a plurality of outlet openings, and means for retaining and holding said parts on said rim.

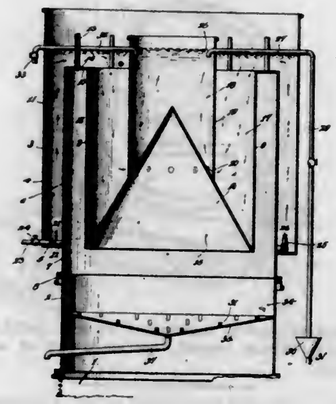
1,686,417. DOOR CATCH. WILLIAM NORMAN, Norman, Nebr. Filed Apr. 20, 1927. Serial No. 187,605. 5 Claims. (Cl. 292—108.)



1. In a latch structure of the class described a case providing a compartment therein and an opening forwardly therethrough with ribs projecting laterally and inwardly of the compartment adjacent said forward opening, and a bolt pivoted in the compartment of said case including shoulders adapted for cooperation against the ribs of said case and a reduced forward head portion provided with a recess therein which projects through said forward opening between the ribs.

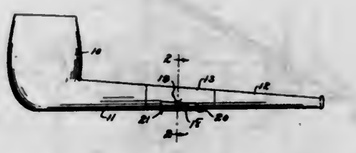
1,686,418. WATER STILL. ERNON V. OLIVER, Pasadena, Calif. Filed Dec. 29, 1923, Serial No. 683,358. Renewed June 14, 1928. 9 Claims. (Cl. 203—5.)

1. A still condenser comprising an upwardly tapered condensing chamber, a wall surrounding the said chamber and constituting, in combination with the wall of the condensing chamber, a cooling water chamber, means for supplying water to the cooling water chamber, and means for effecting circulation of the water in an upward direction over the surface of the wall of the condensing chamber, the said



means comprising a circulating chamber surrounding the upper portion of the condensing chamber and having water inlet openings near its bottom.

1,686,419. SMOKER'S PIPE. JOHN JOSEPH PAPSON, Dickson City, Pa. Filed Sept. 23, 1927. Serial No. 221,553. 1 Claim. (Cl. 131—12.)

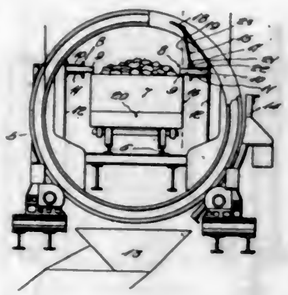


A tobacco pipe including a bowl, a stem extending from the bowl, a mouth piece, a sleeve connecting the stem and mouth piece and holding said stem and mouth piece in spaced relation to provide a chamber, said sleeve having an opening therein and a closure for the opening, a continuous smoke tube extending longitudinally through said chamber and having its opposite ends extending into the stem and mouth piece and having an opening to provide communication with the chamber.

1,686,420. ROTARY MINE-CAR DUMP. JOHN S. REPKO, Scranton, Pa., assignor to The Hudson Coal Company, Scranton, Pa. Filed Dec. 22, 1927. Serial No. 241,909. 3 Claims. (Cl. 214—52.)

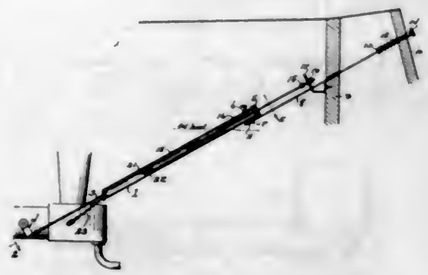
1. In a rotary mine car dump embodying a cradle to receive a car to be dumped, a receiver under said cradle, and a stationary coal guide plate at one side of the cradle, substantially concentric therewith and extending to said receiver; a coal check plate rigidly secured to said cradle in position to extend longitudinally of and to project above one side of a car in said cradle, said coal check plate having its upper portion inclined inwardly beyond the plane of said one car side and terminated a distance from the cradle axis slightly less than the distance between said axis and said coal guide plate; whereby said coal check plate will hold the coal from sliding against said coal guide

plate until the car has turned substantially ninety degrees, will then permit the coal to gradually slide against said coal guide plate and will then co-act with said coal



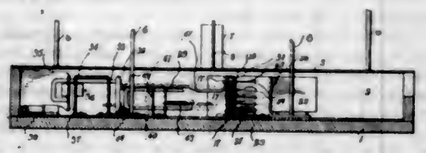
guide plate to prevent dumping of the coal until said coal check plate travels beyond the lower end of said coal guide plate.

1,686,421. CARBURETOR-CHOKER CONTROL. ROBERT GALBRAITH RUSSELL, Burgettstown, Pa. Filed Nov. 4, 1927. Serial No. 231,138. 2 Claims. (Cl. 74—39.)



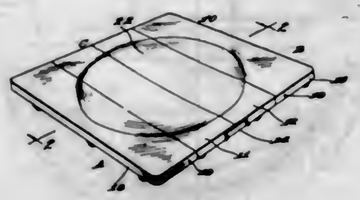
1. A choker device for an internal combustion engine comprising a cylinder connected with the choker valve, means for normally holding the cylinder in a position with the valve open, a choker rod for moving the cylinder to close the valve, a piston in the cylinder having its rod connected wtih a stationary part, fluid in the cylinder and valve means for permitting the fluid to pass by the piston when the cylinder is being moved upwardly but to prevent such movement when the cylinder is being moved downwardly.

1,686,422. LEAF TURNER. GUSTAV SCHOENFELD, Great Falls, Mont. Filed Nov. 5, 1927. Serial No. 231,240. 8 Claims. (Cl. 84—490.)



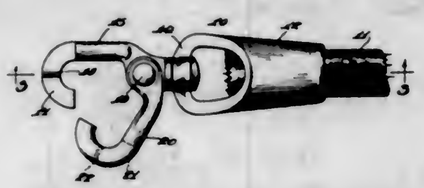
6. A leaf turning mechanism comprising a plurality of leaf-turning arms, a plurality of latches arranged to engage the respective arms, a trip plate engaging the latches and constructed to successively release them from the respective turning arms, a pull rod arranged to engage the trip plate, a cross head carrying said pull rod, a guide arm extending from the cross head, a bracket supporting and guiding said arm, an abutment on the guide arm in spaced relation to the bracket, an inflatable bulb disposed between and bearing against the guide bracket and the said abutment, yieldable means for holding the abutment toward the bracket, and means for inflating the bulb and thereby moving the abutment in opposition to said yieldable means whereby to reciprocate the pull rod and impart step by step movement to the trip plate.

1,686,423. EXERCISING DEVICE. JOHN M. THOMSON, Bronx, N. Y. Filed May 14, 1927. Serial No. 191,396. 2 Claims. (Cl. 252—57.)



1. An exercising device comprising a pair of hingedly connected sections, a pair of separable sections, means for detachably connecting the respective separable sections to the respective hingedly connected sections, said means including hooks extending from one of the sections, pins provided on the next adjacent section for engagement by the respective hooks, and roller elements on the underside of the sections.

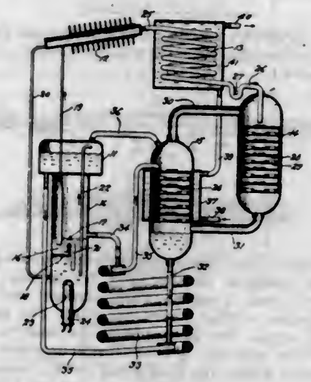
1,686,424. FASTENING DEVICE. JOHN MALCOLM THOMSON, Long Island City, N. Y., and PETER HARDY, Bridgeport, Conn. Filed Feb. 1, 1928. Serial No. 251,169. 2 Claims. (Cl. 24—232.)



1. In combination with an elastic cord, a resilient ring fixed adjacent one end thereof, a fastening device including a sleeve member having a converging bore therein, spaced ribs extending from the walls of said bore, said elastic cord being pulled through said sleeve member to cause the resilient ring to be compressed by reason of engagement with the converging walls of said bore for locking engagement behind one of said ribs, and an eye swivelly connected to said sleeve member.

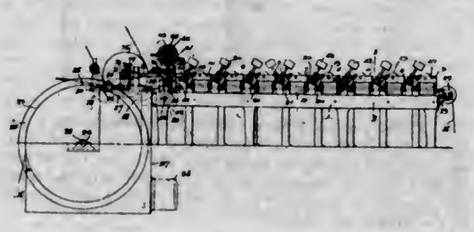
1,686,425. REFRIGERATION. BALTZAR CARL VON PLATEN and CARL GEORG MUNTERS, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 5, 1927, Serial No. 172,944, and in Sweden Apr. 29, 1926. 23 Claims. (Cl. 62—178.)

1. That improvement in the art of refrigeration through the agency of an absorption system including a generator and an absorber which consists in alternately and periodically producing flow of weak absorption liquid in direction from the generator to the absorber due to pressure



and gravity and periodically producing flow of strong absorption liquid in direction from the absorber to the generator due to gravity.

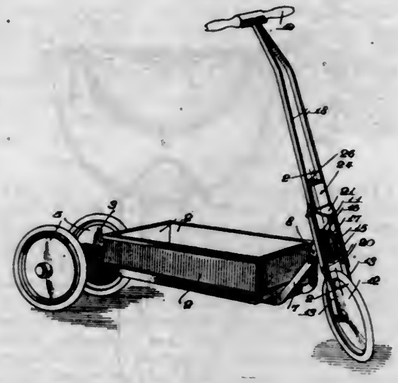
1,686,426. COATING MACHINE. WILLIAM H. WALDRON and LYNN B. CASE, New Brunswick, N. J., assignors to John Waldron Corporation, New Brunswick, N. J., a Corporation of New Jersey. Filed Oct. 9, 1926. Serial No. 140,496. 5 Claims. (Cl. 91—12.)



1. In a coating machine, a reservoir for the coating material; a feed roll rotatably mounted in said reservoir; a supporting rod substantially parallel to said feed roll; delivery spoons adjustably secured to said supporting rod and adapted to engage said feed roll; means on said rod for maintaining said spoons in either a roll engaging or disengaging position; and a drip trough underlying the delivery end of said spoons when in their said disengaging positions.

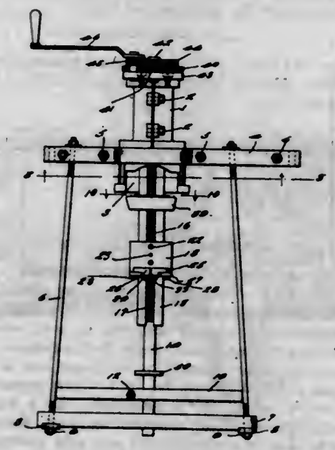
1,686,427. WHEELED TOY VEHICLE. PAUL THEODORE WALLGREN, Chicago, Ill. Filed Oct. 24, 1927. Serial No. 228,465. 1 Claim. (Cl. 280—87.5.)

In a wheeled toy having a low hung longitudinally extending platform mounting, and a box body at the forward end thereof, the combination of a pair of stabilizing wheels at the rear end of the platform, a hanger for the front end of the platform, a front wheel having a forked mount pivotally connected to the hanger and constituting a steering post, said forked mount including a pair of spaced bars, and an arcuately shaped plate secured to the upper end of said bars, the plate being provided with perforations and extending rearwardly and over the pivotal mounting, a handle consisting of a pair of spaced bars pivotally connected to the bars of the forked mount, at a point below the pivotal connection between the hanger and the



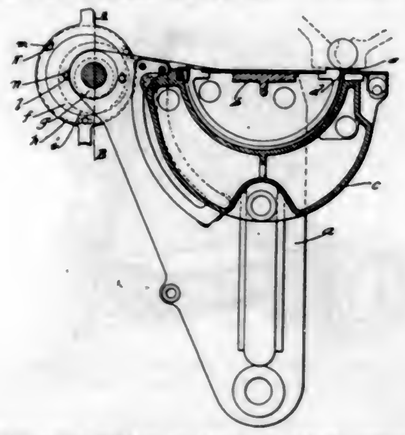
forked mount, a spring pressed pin adapted to engage a perforation for locking the handle in a predetermined position.

1,686,428. BORING BAR. ARCHIE CALVIN WENAK, Muscatine, Iowa. Filed Nov. 5, 1923. Serial No. 672,919. 1 Claim. (Cl. 77—2.)



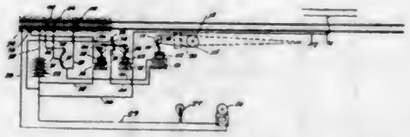
A device of the character described comprising spaced supporting members, said members being provided with communicating semi-circular portions, a housing member supported within the enclosure defined by the semi-circular portions, a tubular member split for an appreciable portion of its length being carried within the housing, a reduced extension depending from the lower end of the tubular member, a bearing block split for an appreciable portion of its length and having communication with an opening adapted to accommodate the lowermost end of the extension, a shaft extended centrally of and threaded within the tubular member, a tool head carried by the tubular member and adapted to receive the threaded portion of the shaft to move the head longitudinally of and upon the tubular member, a cutter member carried by and horizontally disposed from the tool head, and means for imparting rotary movement to the tubular member and tool head.

1,686,429. MACHINE FOR CASTING STEREOTYPE PLATES. CARL WINKLER, Bern, Switzerland. Filed Feb. 5, 1927, Serial No. 166,227, and in Germany May 18, 1925. 3 Claims. (Cl. 22—2.)



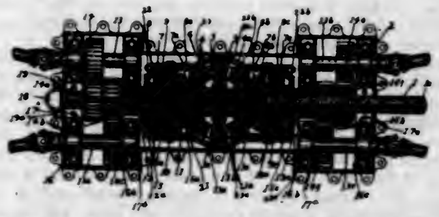
1. A casting machine for stereotype plates, comprising in combination a furnace, a melting pot in said furnace, having a slot opening in the lower part thereof, a mould adapted to be brought into contact with said pot so that the outlet opening of said pot registers with the inlet opening of said mould, a frame to carry and move said mould, and an eccentric bush to pivot said frame, seated in the wall of said furnace on each side of the machine, substantially as, and for the purpose, set forth.

1,686,430. SAFETY GATE. CHARLES WRIGHT, Evanston, Ill. Filed May 27, 1927. Serial No. 194,758. 5 Claims. (Cl. 246—125.)



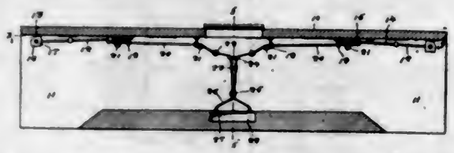
1. A device of the class described including a crossing gate mounted on a rockable shaft, means tending to hold said gate in raised position, a housing in which said shaft is mounted, another shaft mounted in said housing, and means connecting said shafts, an electro-magnet having a movable core, means connecting said core and said second mentioned shaft, a circuit for said electro-magnet including, a source of energy, a resistance, and a plurality of switches operated by an approaching train, said switches being arranged to gradually cut out said resistance from the circuit.

1,686,431. DIFFERENTIAL. CHARLES O. WYMAN, Anoka, Minn. Filed Nov. 5, 1925. Serial No. 67,074. 6 Claims. (Cl. 74—99.)



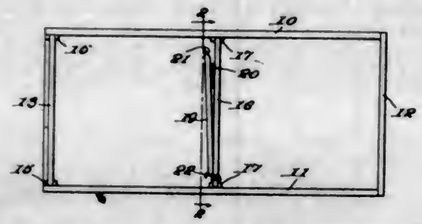
1. In combination, a drive shaft, a primary differential having a middle gear section keyed to the shaft, said differential including side gears loose upon the shaft, and a differential casing carried by each side gear, each casing having a middle gear section connected therewith, and two side gears, and sleeves independently rotatable upon the shaft in superposed relation, and connected with side gears of the last mentioned differentials.

1,686,432. ANIMAL TRAP. HERMAN BLECK, Hammond, Ind. Filed July 19, 1926. Serial No. 123,521. 6 Claims. (Cl. 43—61.)



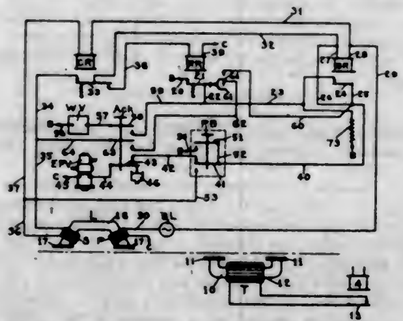
1. An animal trap comprising a casing open at one end, a pivotally mounted gravity door for closing the open end of the casing, a substantially straight rod mounted for longitudinal sliding movement within the casing and adapted to engage the underside of the door to hold the latter in open position, a horizontally disposed pivotally mounted plate within the casing and means connecting the plate and rod to hold the plate elevated when the rod is in door engaging position and to disengage the rod from the door when the plate is depressed.

1,686,433. DIVISION BOARD FOR TRUCK BODIES. MARY E. BOUSTEAD, Minneapolis, Minn. Filed Apr. 30, 1926. Serial No. 105,838. 2 Claims. (Cl. 296—1.)



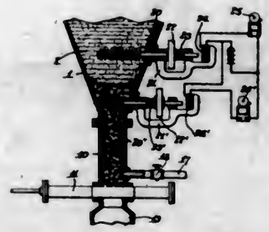
1. A division board for a vehicle body, comprising a substantially flat element, a brace hinged to this element near one end, and having its upper edge below the top of said element, and an engaging device connected with the board and adapted to contact with the end of the brace opposite to the hinged end thereof.

1,686,434. INTERMITTENT INDUCTIVE TRAIN CONTROL. CHARLES S. BUSHNELL, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Apr. 16, 1925. Serial No. 23,572. 17 Claims. (Cl. 246—6.3.)



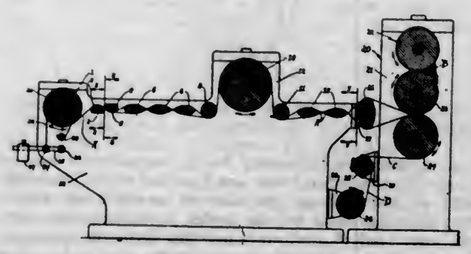
1. In an automatic train control system; the combination of an electro-responsive device which if in its retracted position restricts the movement of the train; a source of energy; a ballast lamp; a circuit including said device, said source and said lamp in series; and an inductive influence communicating means located in inductive relation with the trackway for changing the flow of current in said circuit.

1,686,435. METHOD AND APPARATUS FOR DETECTING ACCUMULATIONS OF MATERIALS IN COAL WASHERS AND ORE CONCENTRATORS. THOMAS M. CHANCE, Philadelphia, Pa. Filed Aug. 5, 1924. Serial No. 730,160. 3 Claims. (Cl. 209—173.)



1. A method of separating materials of different specific gravities which consists in immersing said materials in an agitated mixture of liquid with comminuted solids heavier than the lighter of said materials and heavier than said liquid and substantially insoluble therein and constituting a fluid mass having a specific gravity intermediate the heavier and lighter of said materials, in introducing liquid under pressure through an accumulation of said heavier materials below said fluid mass, whereby said fluid is agitated by said upwardly rising liquid and its fluidic properties and its specific gravity are maintained and controlled, in supplying a source of energy extraneous to said accumulations, in applying a force of predetermined intensity in counteracting said energy, in applying said energy so counteracted to said accumulation, whereby the presence of said accumulation is indicated by its resistance to said energy, in indicating the locus of application of said force by said resistance, in downwardly removing some of said accumulation when the quantity of said accumulation exceeds a predetermined maximum and in limiting the quantity of said accumulation so removed, whereby a predetermined quantity of said accumulation is maintained below said fluid mass.

1,686,436. APPARATUS FOR FORMING CORD SHEET MATERIAL. JOHN W. CLARK, Providence, R. I. Filed Mar. 12, 1923. Serial No. 624,479. 10 Claims. (Cl. 154—1.)

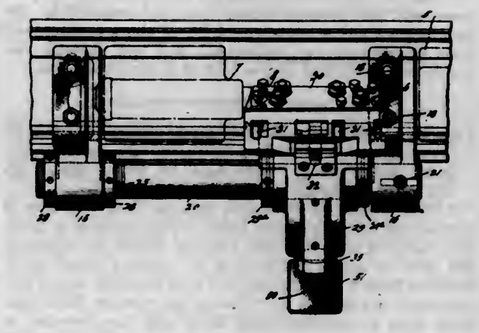


1. The method of making rubberized cord sheet material for use in the manufacture of cord ties, which comprises, progressively withdrawing a plurality of unwoven cord ends from a holding member, passing said cord ends over a stationary tensioning member having a longitudinally convex surface for imparting progressively increased tension to the cord ends from the edges towards the center, vertically displacing adjacent cord ends in opposite directions from their normal plane of travel while guiding the same to insure a proper relative spacing of said cords from each other in a direction transversely of their direction of travel, returning said cords into a substantially common plane and frictioning unvulcanizing rubber into and between said unwoven cords while the said cords are in a substantially common plane.

1,686,437. REMOVING AMORPHOUS WAX AND ASPHALTIC MATERIAL FROM OIL. THOMAS CLARKSON and HAMMOND R. HEAL, Coffeyville, Kans. Filed Oct. 29, 1921. Serial No. 511,476. 3 Claims. (Cl. 196—19.)

1. A process of treating lubricating oil containing amorphous wax and asphaltic material, which comprises the steps of adding a light petroleum distillate in amount sufficient to lower the viscosity of said oil, refrigerating the solution sufficiently to cause the solidification of a substantial portion of the amorphous wax and asphaltic material, and subjecting the refrigerated solution alone to pressure-filtration through a filtering element of at least as close a texture as fine filter paper, until a substantial quantity of the solidified material has accumulated therein, and thereafter dissolving out such solidified material with a hot solvent.

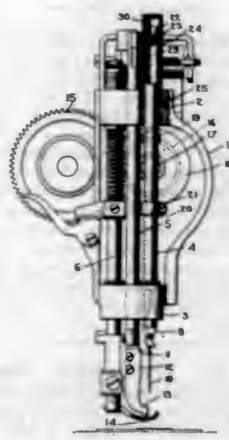
1,686,438. FACING ATTACHMENT FOR LATHES. FRANCIS B. COCKBURN, Cincinnati, Ohio, assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 5, 1925. Serial No. 73,505. 1 Claim. (Cl. 82—25.)



In combination with a lathe including a bed, and work supporting centers on the bed, a carriage operable between the work supporting centers, brackets upon the top of the bed on each side of the carriage aligned in direction of carriage travel and spaced to permit travel of the carriage therebetween, a pivot shaft spanning the carriage and translatably non-rotatively supported in the brackets, said bar threaded at one end with the threads disposed at opposite sides of the brackets, collars one at each side of said bracket having threaded engagement with the threads of the pivot shaft for translating the shaft when the collars are turned, said collars engageable with opposite sides of the bracket for locking the pivot shaft against translation in an adjusted position, an arm non-translatably pivoted at intermediate point upon the non-rotatable pivot shaft, said arm having a tool engageable with the work carried between the centers and further having a roller at the opposite end, said tool and roller respectively at opposite sides of the

pivot, a templet movable with the carriage having a longitudinally disposed face, engageable by the roller for rocking said arm for a tool feed movement in synchronism with carriage movement.

1,686,439. BLOWER ATTACHMENT FOR MACHINES. JOHN McP. COOKE, Revere, Mass., assignor to Nicholas W. Mathey, Boston, Mass. Filed Mar. 7, 1923. Serial No. 623,355. 13 Claims. (Cl. 112—218.)



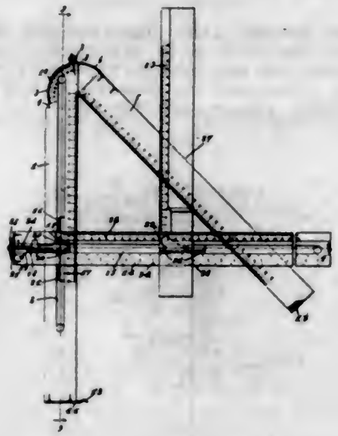
1. In a machine of the character described, a hollow reciprocable bar with a tool and a restricted orifice at the lower end, and means acting upon and induced by the reciprocation of the bar to compress air above said bar and force it through the hollow bar and out through the orifice, in the vicinity of the field of action of the tool.

1,686,440. RECOVERING SUCROSE FROM MIXTURES CONTAINING REDUCING SUGARS. HENRY W. DAHLBERG, Denver, Colo. Filed Sept. 23, 1926. Serial No. 137,379. 11 Claims. (Cl. 127—47.)

1. The process of recovering sucrose from mixtures of sucrose and reducing sugars which process consists of treating a mixture of sucrose and reducing sugars by regulating the ratio of amount of sucrose to reducing sugar to include at least 2.8 of sucrose to 1.0 of reducing sugar, precipitating the sucrose by treating the mixture thus regulated with an alkaline earth metal and thus forming an alkaline earth metal saccharate, and separating saccharate into an alkaline earth metal compound and sugar syrup.

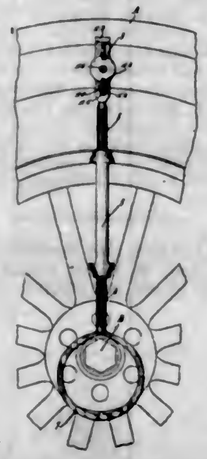
1,686,441. FRAMING TOOL. ALFRED B. DAUGER and RUTH M. DAUGER, Sacramento, Calif. Filed Sept. 3, 1927. Serial No. 217,480. 3 Claims. (Cl. 33—92.)

1. A roof and truss framing gage tool of the character described comprising a rise rule formed with a groove longitudinally arranged therein, a hypotenuse rule secured adjacent one end of the rise rule, means for retaining said hypotenuse rule at desired angles with respect to the rise rule, a run rule formed with a longitudinal disposed groove terminating in a slot at one end, means secured in said slot for moving the run rule transverely of the rise rule and including a block member having a square opening in one end, a screw having one end secured in the square opening, a nut threadedly mounted on the screw, a member formed with said means and disposed at right angles thereto, said member being mounted in the groove of the rise rule for slidable movement and carrying the run rule accordingly, a jack rule provided with a recess receiving the run rule, and resilient means secured to the jack rule



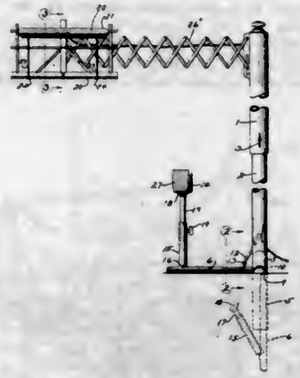
and disposed in the groove of the run rule for slidable movement, and said rules being graduated as and for the purpose specified.

1,686,442. FENDER-STRAIGHTENING DEVICE. MART DO RAN, Lincoln, Nebr. Filed Dec. 21, 1926. Serial No. 156,161. 5 Claims. (Cl. 153—32.)



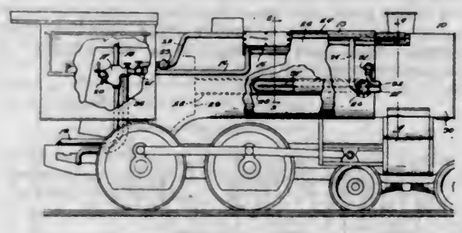
1. A fender straightening device comprising a pair of oppositely extending stems, one provided at its inner end with an abutment and the other at its outer end with a straightening clamp for the fender, means engaging with the outer end of that stem provided with the abutment and the inner end of that stem provided with a clamp for adjusting said stems relative to each other, said clamp including a stationary and an adjustable jaw, said adjustable jaw being pivoted to that stem carrying the clamp, said jaws coacting to clamp the fender therebetween

1,686,443. READING STAND. ADA MARIAN ELLIS, Oakland, Calif. Filed May 10, 1926. Serial No. 107,985. 7 Claims. (Cl. 45—121.)



1. A device of the type described comprising an extensible support, collapsible legs for holding said support in operative position, said legs being movable into said support, a collapsible book-holder, collapsible means for supporting said book-holder at different positions from said support, and means for adjustably securing said device to a bed, means on said support for bracing it on the floor.

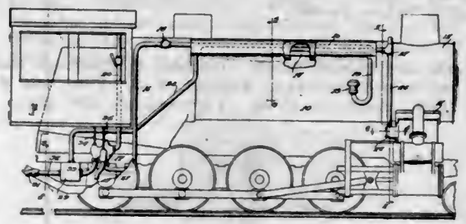
1,686,444. TRIPLE PREHEATER FOR BOILERS. LEE O. GARRAWAY, Memphis, Tenn. Filed Oct. 1, 1924. Serial No. 741,073. 2 Claims. (Cl. 122—422.)



1. A feed water heater system for locomotives comprising a continuous water conduit leading from a source of supply near the rear end of the locomotive forwardly upon the shell of the boiler, then into the smoke box of the boiler, then back and forth within a boiler flue and thence into the front end of the boiler, a casing upon the boiler shell housing the portion of the water conduit lying on said shell, a pipe extending from the steam exhaust of the locomotive engine through the smoke box into the front end of said casing, and means for conveying exhaust steam from the rear end of the casing and delivering it into the water conduit at the source of supply in rear of the casing.

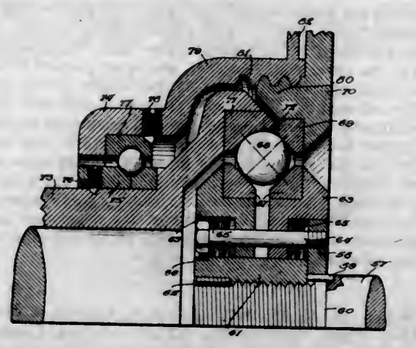
1,686,445. PREHEATER ATTACHMENT FOR BOILERS. LEE O. GARRAWAY, Memphis, Tenn. Filed Oct. 16, 1924. Serial No. 744,091. 2 Claims. (Cl. 122—441.)

1. A feed water heater system for locomotives comprising a tank arranged below the fire box and in rear of the locomotive boiler and receiving water by gravity from a source of supply, a casing secured upon the boiler and extending longitudinally thereof, a water coil within the casing extending longitudinally thereof, a pipe extending from the front end of the water coil into the water space of the boiler, a connection between the rear end of the water coil and the outlet of the tank, means in said connection for causing flow of water from the tank through the water coil into the boiler, means in said connection preventing flow from the boiler to the tank, a conduit leading exhaust steam from the locomotive engine into the



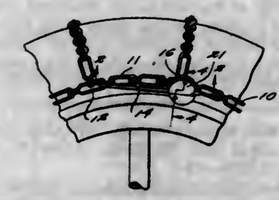
front end of the casing, and a conduit leading exhaust steam from the rear end of the casing and delivering said exhaust steam into the water in the tank to be condensed therein.

1,686,446. PLANETARY TRANSMISSION MECHANISM. JOHN A. GILMAN, Seattle, Wash. Filed Apr. 15, 1926. Serial No. 102,251. 2 Claims. (Cl. 74—34.)



1. A transmission comprising a drive member, a collar fixed to said member, race carriers encircling the drive member at one side of the collar, bolts and springs cooperating with said collar to maintain said race carriers against relative rotation and urge them toward each other, races carried by said carriers, a plurality of rolling elements seating in said races, a non-rotatable race disposed about and engaging the rolling elements, a rotatable race disposed about and driven by the rolling elements, and operative means for effecting axial movement of one of the races.

1,686,447. CHAIN-FASTENING DEVICE. LOUIS HANSEN, Calgary, Alberta, Canada. Filed Dec. 9, 1927. Serial No. 238,937. 3 Claims. (Cl. 24—69.)



1. A chain fastening device comprising in combination a locking lever having connection with one end link and adapted to be passed through the other, of a locking ele-

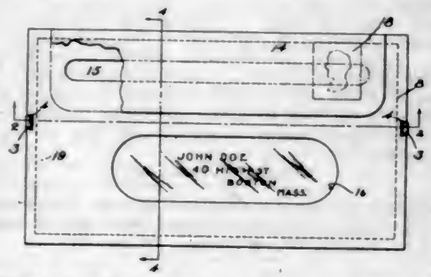
ment having a recess adapted to receive the free end of the lever, a closure plate carried by the locking element being adapted to hold the lever against displacement within the recess, and a locking finger carried by the closure plate being adapted for engagement with an appropriate portion of the locking element.

1,686,448. LOOM REED. ORLANDO P. HARGROVE and MICHAEL FITZPATRICK, Wayland, N. Y. Filed Aug. 6, 1925. Serial No. 48,586. 1 Claim. (Cl. 139—192.)



A reed for single shuttle race looms, the reed embodying an upper frame member, and a lower frame member, and dents connected at their ends, to the upper frame member and to the lower frame member, the upper portion of each dent being approximately double the length of the lower portion of each dent, the upper portion of each dent being straight, and the lower portion of each dent being straight, the upper portion of each dent being vertical, and being located in one plane, and the lower portion of each dent being located in another plane at an obtuse angle to the first-specified plane, the frame members being arranged out of vertical alinement, to permit the upper and lower portions of the dents to be disposed at an angle to each other, as aforesaid.

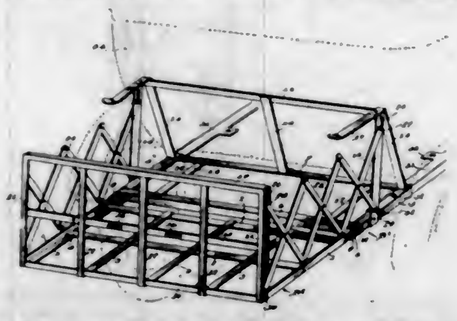
1,686,449. MAILING BOX. RALPH L. HARDEN, Attleboro Falls, Mass., assignor to The Mason Box Company, Attleboro Falls, Mass., a Corporation of Massachusetts. Filed Mar. 26, 1926. Serial No. 97,581. 11 Claims. (Cl. 229—6.)



8. An article of the character described comprising a container and a cover, flexible metal clips extending from the container through the cover, and an envelope on the cover, said clips also extending through marginal portions of the envelope.

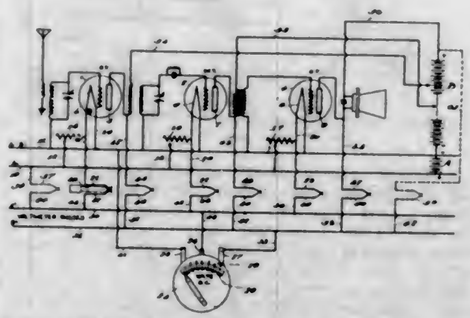
1,686,450. LUGGAGE CARRIER. WILLIAM HENRY, Rockford, Ill. Filed Mar. 28, 1925. Serial No. 19,138. 2 Claims. (Cl. 224—29.)

1. A luggage carrier comprising a bottom comprising an inner end section and an outer end section, each having a pair of side bars and connecting and brace bars, the adjacent end portions of corresponding side bars of the two sections being juxtaposed and being connected by alined horizontal pivot elements, said sections including cooperative means for preventing downward swinging movement of the outer section about the axis of said pivot elements beyond the plane of the inner section, a pair of uprights rigid with the inner section of the bottom at opposite sides of and adjacent to the inner end of the latter, an outer end for the carrier, said outer end being free from the bottom, and lazy tongs connecting the respective uprights with opposite ends of said outer end members,



said lazy tongs supporting said outer end member at the outer end of the bottom when the lazy tongs and the bottom are extended and permitting swinging of the outer section of the bottom upward and inward from the plane of the inner section of the bottom, said outer end member having an inwardly extending horizontal supporting flange at its lower edge on which the outer end portion of said outer end section of the bottom rests when said bottom and the lazy tongs are extended.

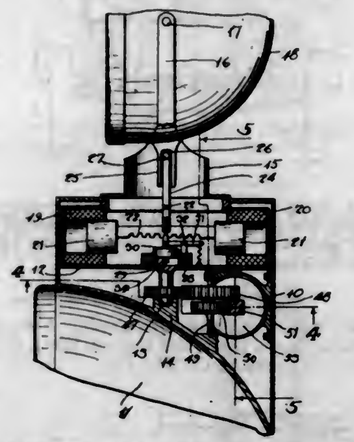
1,686,451. VOLTAGE-TESTING APPARATUS. JOHN WILLIAM HILL, Salt Lake City, Utah, assignor of forty-nine one-hundredths to John T. Caley, Salt Lake City, Utah. Filed June 3, 1926. Serial No. 113,533. 1 Claim. (Cl. 250—27.)



Voltage testing apparatus for radio receivers and the like comprising a voltmeter having a pair of positive terminals and one negative terminal, a pair of positive voltmeter busses connected with the respective positive terminals, an electron-emission tube including a filament and a plate, a normally open positive potential conductor connected with the plate and having a connection leading to one of the positive voltmeter busses, a double-pronged jack interposed in said connection at which said conductor is open, positive and negative filament busses, a connection between one end of the filament and the negative filament bus, a rheostat connected between the other end of the filament and the positive bus, a normally open connection leading from the rheostat to the other positive voltmeter bus, a double pronged jack incorporated in and at which said last connection is open, and a connection between the negative voltmeter terminal and the negative filament supply bus, either of said jacks being capable of

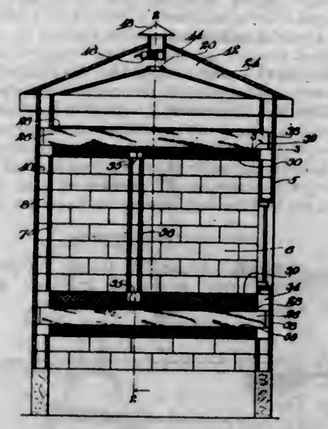
receiving a plug for closing a circuit involving either one or the other of the positive voltmeter terminals and the negative terminal, thereby to test either the plate or filament voltage.

1,686,452. HEADLIGHT. CARL PERRY HOEFLER, Syracuse, N. Y. Filed Sept. 20, 1926, Serial No. 136,601. Renewed Mar. 6, 1928. 5 Claims. (Cl. 240—61.)



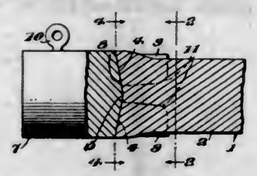
1. In a device of the kind described, a supporting member including a yoke, a lamp pivoted in said yoke for tilting movement, a pair of alined and spaced solenoids carried by said member, a core bar adjustable longitudinally in accordance with the energization of respective solenoids, a lever mechanism connecting the bar and the lamp to tilt the latter as the bar moves, releasable means to hold the bar in adjusted position, a third solenoid operatively connected to said means to release the same upon energization, and means to effect successive energization of the third solenoid and a selected solenoid of the first pair.

1,686,453. VENTILATED BUILDING. PETE JARNOWSKI, Chicago, Ill. Filed Aug. 20, 1925. Serial No. 51,451. 1 Claim. (Cl. 72—1.)



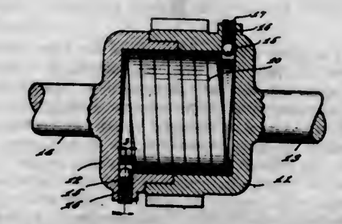
In a ventilated building, supporting walls formed of laid blocks provided with vertically registering communicating air passages, hollow floors carried on intermediate joists supported in opposite walls, said joists being disposed in parallel spaced relation, and floor level blocks in said walls, said floor level blocks being three sided with one open side in communication with the spaces between said floor joists for establishing unbroken ventilating communication between all walls and floors in the building.

1,686,454. DRESSING DIE. FOSTER H. LEIDECKER, Marietta, Ohio, assignor to The Leidecker Tool Company, Marietta, Ohio, a Corporation of Ohio. Filed June 12, 1925. Serial No. 36,741. 1 Claim. (Cl. 76—95.)



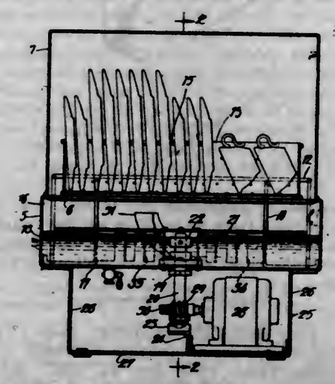
A dressing die for cable drill bits which have a plurality of spiral blades making less than a complete turn throughout the length of the bit, said dressing die having spiral fingers projecting outwardly therefrom, the twist of the fingers corresponding to the spiral twist of the spiral blades of the bit for interfitting with the blades.

1,686,455. OVERRUNNING SPRING CLUTCH. ALBERT LIEBER, Indianapolis, Ind., assignor to L. G. S. Devices Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed Nov. 25, 1925. Serial No. 71,281. 5 Claims. (Cl. 192—41.)



1. In combination, two relatively rotatable members having alined circular recesses, a coil-spring located in said recesses, and a ratchet device operating between said spring and one of said members to prevent relative rotation of said spring and such member in a direction to unwind said spring, whereby to cause said spring to expand into gripping engagement with the walls of its associated recesses.

1,686,456. DISHWASHING MACHINE. ARTHUR G. KOHLER, New Rochelle, N. Y. Filed Mar. 15, 1926. Serial No. 94,963. 5 Claims. (Cl. 141—9.)



1. A dish washing machine comprising a liquid holding tank, a rotary disk member in said tank, a dish holding tray therein and nozzles carried by and extending through

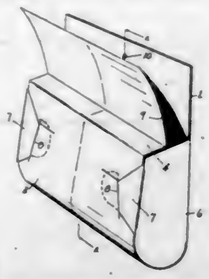
the disk member for projecting the liquid in the tank vertically in streams and said nozzles being so shaped that their portions disposed beneath the disk are elongated vertically and above the disk are elongated horizontally.

1,686,457. BURGLAR ALARM. THADDEUS S. MCCLINTOCK, Pittsburgh, Pa. Filed Oct. 26, 1926. Serial No. 144,313. 3 Claims. (Cl. 177—314.)



1. In a burglar alarm, pairs of contact bars adapted for disposition on opposite sides of an opening to be protected, means insulating the bars of each pair from each other, pairs of concentric coiled springs connected at their ends to the respective bars and disposed before the opening, means for sounding an alarm whenever one spring comes in contact with its adjacent concentric spring, means normally retaining the contact bars of each pair out of electrical communication, and means for automatically connecting the bars to sound an alarm upon bodily movement of the bars.

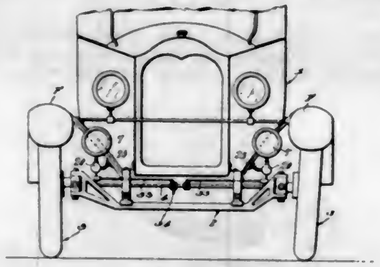
1,686,458. PAPER HOLDER. ARCHIBALD I. MCCOLL, Kalamazoo, Mich., assignor to Helen McCalmont Stone McColl, Kalamazoo, Mich. Filed Oct. 3, 1925. Serial No. 60,192. 7 Claims. (Cl. 206—57.)



4. A paper holder comprising rear, bottom, front and top walls, the rear and front walls diverging downwardly and the top wall having an inwardly projecting sheet holder adapted to engage within the fold of a body of sheets folded upon itself.

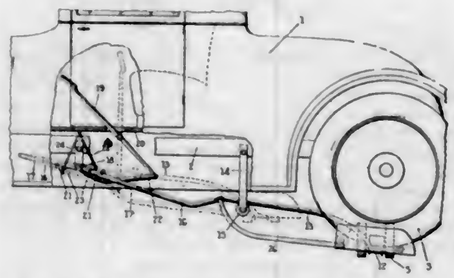
1,686,459. DIRIGIBLE HEADLIGHT. FRED Y. MCKENNEY, Chattanooga, Tenn., assignor to Robert C. Lynn, Chattanooga, Tenn. Filed Aug. 18, 1927. Serial No. 213,921. 4 Claims. (Cl. 240—62.)

2. Operating mechanism to swing a dirigible headlight from the swinging arm of the steering gear of an automobile comprising a tie rod, a connection between said tie rod and steering gear, a lamp support mounted to rotate, a member fixed to and depending from said support, a cam



located in the path of said member, and a connection between said cam and said tie rod whereby turning of the steering gear will operate to simultaneously turn the lamps in the same direction.

1,686,460. VEHICLE PARKING DEVICE. JOHN H. MOFFAT, Indianapolis, Ind. Filed Nov. 12, 1927. Serial No. 232,806. 3 Claims. (Cl. 180—1.)



1. In a parking device for vehicles, a pair of runways adapted to receive the driving wheels of a vehicle; a pair of bars in one runway for receiving a vehicle driving wheel when entered therein, said bars holding said wheel against rotation; a pair of rollers in the other runway on which the driving wheel entered therein will rest; supporting wheels on said runways; a gear attached to the supporting axle of one set of the supporting wheels, a worm attached to one of said rollers and intermeshing with said gear, adapted to impart rotating movement to said set of suporting wheels when the vehicle wheel thereon is rotated, for causing said runways to move laterally in either direction, as desired; means for predetermining the position of said runways; and means for backing said runways in operative positions.

1,686,461. GIRDER. STUART B. MOORE, La Porte, Tex. Filed July 24, 1923. Serial No. 653,556. 2 Claims. (Cl. 72—61.)



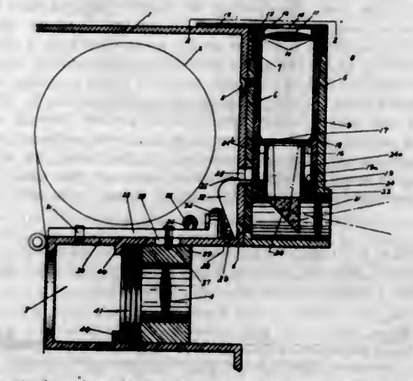
1. A girder comprising in combination, a concrete web and flanged compression and tension members joined at their ends, the flanges of said members being disposed outwardly and forming an enveloping loop around the web longitudinally.

1,686,462. PHOTOGRAPHIC FILM AND MAGAZINE THEREFOR. FREEMAN H. OWENS, New York, N. Y. Filed Aug. 25, 1926. Serial No. 131,393. 15 Claims. (Cl. 95—9.)



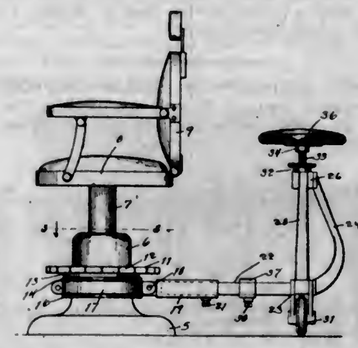
1. A photographic film cartridge comprising a double strip of film wound upon a single support.

1,686,463. FOCUSING DEVICE FOR CAMERAS. FREEMAN H. OWENS, New York, N. Y. Filed Aug. 25, 1926. Serial No. 131,394. 15 Claims. (Cl. 95—45.)



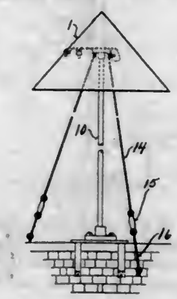
1. A focusing device for cameras comprising a view finder provided with a ground glass and a lens, a camera lens, said finder being movable to focus, and means co-operating with said finder and said camera lens whereby the camera lens is focused upon movement of said finder to proper focus on said ground glass.

1,686,464. CRAFTSMAN'S STOOL. JAMES LYMAN PERRY, Honolulu, Territory of Hawaii. Filed Aug. 10, 1927. Serial No. 212,071. 1 Claim. (Cl. 155—81.)



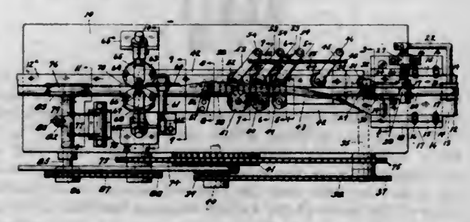
In combination with an operating chair having a base and an upstanding portion, a flange secured to said upstanding portion and having depressions formed therein, a race-way formed in close proximity to said flange, a stool spaced from said chair, a support extending between said stool and said chair, a band positioned in said race-way and secured to said support.

1,686,465. ANTENNA FOR RADIO RECEIVING SETS. LOUIS C. POIRIER, Merrill, Wis. Filed Feb. 14, 1927. Serial No. 168,040. 3 Claims. (Cl. 250—33.)



1. An antenna for radio work comprising an extensive sheet metal member having an insulated coupling located on its underside, a metal support secured to said coupling, and a plurality of bolts attaching said member to said coupling and adapted to receive guy wires, said bolts being electrically connected to said member and insulated from said coupling.

1,686,466. BEAD-COVERING MACHINE. EDWARD D. PUTT, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 28, 1925. Serial No. 12,243. 7 Claims. (Cl. 154—9.)

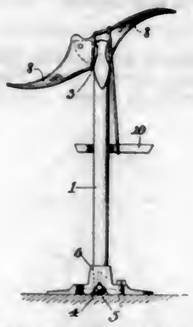


1. Apparatus for continuously folding a strip of fabric about and pressing it onto a strip of bead material comprising a support including a series of rollers on which said strips are carried, means for guiding the strips into contact with each other on said support, means for driving the composite strip thus formed over said support, means for progressively folding and pressing said fabric strip onto said bead strip said means including a series of rollers whose axes are perpendicular to said support, whose peripheries are positioned to be tangential to the bead material and formed with flanges for overlying said composite strip, said flanges being of progressively increasing diameters, and means for pressing the bead strip against said rollers.

1,686,467. SHOE-REPAIRING STAND. THOMAS RENDLE, Ottawa, Ill. Filed June 28, 1926. Serial No. 118,988. 1 Claim. (Cl. 12—123.)

The combination in a shoe repairing stand, of a standard provided with a tapered circular last mount rigidly fixed at one side, and a special tapered circular last mount rigidly fixed at the opposite side, divided by a tapered slot, in lieu of the heel cleat, at one end, and a tapered circular base spindle at the opposite end, to co-operate with the socket of a whole last, and a two sole last mount positioned between the circular mounts, the base spindle being provided with four angular grooves and a transverse

perforation, a base provided with an open tapered circular socket having a set of four angular ridges and a transverse perforation, a channel passing through the diameter of the



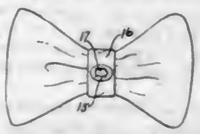
socket and the base in the under side between two perforations, whereby the spindle and base may be locked from rotation and a pin passing through the perforations in the spindle and the base to fasten the base and the standard.

1,686,468. FASTENER. HEYMAN ROSENBERG, New York, N. Y. Filed Dec. 22, 1923. Serial No. 682,270. 6 Claims. (Cl. 85—19.)



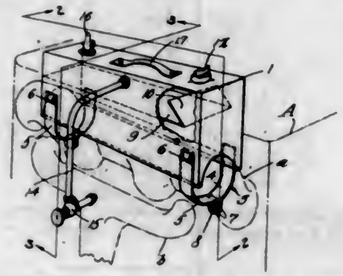
1. A fastener of the class described comprising a pin-like body having straight ribs outstanding laterally and extending lengthwise of the body, the ribs being hardened sufficiently for entering metal, such as soft iron or soft steel, substantially without injury to the ribs, and a cylindrical pilot at the entering end of the body outstanding a distance less than the ribs and beyond the extended lines of the bases of the valleys between the ribs, so as to present shoulders at the entering ends of said valleys located to be overflowed by material entered by the ribs, whereby said shoulders are adapted to interlock with such material.

1,686,469. NECKTIE RETAINER. JOSEPH ROSMAN, New York, N. Y. Filed Mar. 1, 1928. Serial No. 258,177. 2 Claims. (Cl. 24—64.)



1. A tie retainer comprising in combination, a collar button having spaced flanges spaced apart by a shank portion non-circular in cross section and adapted to be engaged by a collar band so that said collar button is held against angular movement relative to said band, a tie, and interengaging head and socket means between the forward end of said collar button and rear face of said tie, one of which is resilient, the co-operating portions of said socket and collar button being non-circular in cross section and being resiliently engaged, whereby said tie is held against angular movement about said collar button.

1,686,470. HUMIDIFYING DEVICE FOR INTERNAL-COMBUSTION ENGINES. DAVID SCHWEBTNER, Leipsic, Ohio. Filed Nov. 17, 1924. Serial No. 750,404. 1 Claim. (Cl. 123—25.)



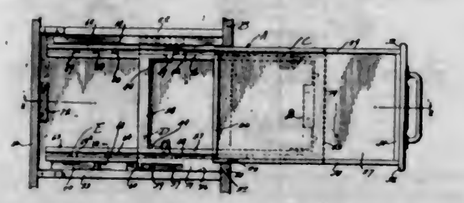
In a humidifying device for an internal combustion engine, a tank adapted for seating upon the exhaust manifold of the engine, a baffle extending across the tank from one end thereof to within a short distance of the other end of the tank and dividing the interior of said tank into a lower water compartment and an upper steam space, said baffle being provided at its inner end with a flange extending above the baffle and inclined downward toward the adjacent end of the tank, the tank being provided with a filling neck above the flange, said flange acting to direct into the water compartment water poured through said neck and to prevent water from said compartment from splashing onto the upper surface of the baffle, an outlet tube connecting with the steam space of the tank, and means for controlling discharge of steam from said tube.

1,686,471. LAUNDRY-ASSORTING APPARATUS. CYRUS G. SEWELL, Abilene, Tex. Filed Feb. 5, 1927. Serial No. 166,267. 4 Claims. (Cl. 209—90.)



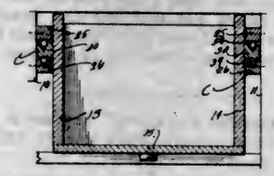
2. An assorting apparatus comprising a plurality of receptacles open at the top, spaced distributor bars supported above the receptacles, carriers engageable with and movable longitudinally of the bars and adapted to carry the articles to be distributed, means to move the carriers and means controlled by the engagement between the carriers and bars to permit certain of the carriers to engage only a particular bar and to deposit a carrier within a particular receptacle.

1,686,472. ANTIFRICTION BEARING SUPPORT FOR DRAWERS. CHARLES W. SIMPSON, La Feria, Tex. Filed May 27, 1926. Serial No. 112,118. 7 Claims. (Cl. 45—77.)



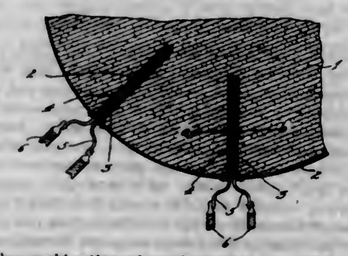
1. In a drawer construction of the class described the combination of a casing having a compartment therein and including a bottom wall and spaced side walls and a front wall with an opening therein to said compartment, tracks stationary on the bottom wall of the casing, retaining flanges connected at the inner sides of the side walls in spaced relation above the tracks, a sliding tray operating on the stationary tracks of the bottom wall for extension into the compartment or extension therefrom through the opening of the front wall of the casing, said sliding tray having lateral extensions at opposite sides thereof below the side wall flanges to prevent the tipping of the tray from a horizontal position, said extensions at the sides of the sliding tray being disposed at the rear end of the sliding tray to limit the forward extended movement of the tray from the casing by abutment against the front wall, and a drawer slidable on the tray.

1,686,473. ANTIFRICTION-BEARING SUPPORT FOR DRAWERS. CHARLES W. SIMPSON, La Feria, Tex. Original application filed May 27, 1926, Serial No. 112,118. Divided and this application filed Nov. 26, 1926. Serial No. 150,851. 2 Claims. (Cl. 45—77.)



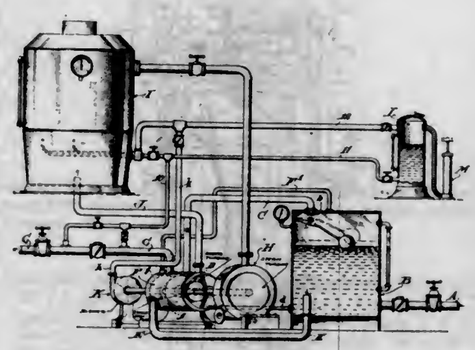
2. In an anti-friction supporting drawer construction the combination of a casing having side walls, a drawer adapted to slide between the side walls of the casing including side walls also, spaced parallel tracks at the inner sides of each of the casing side walls defining a channel therebetween, the lowermost of said tracks having an upwardly facing V-shaped groove along the length thereof subdivided by a stop block to provide a forward groove portion and a rearward groove portion, ball bearings in the forward groove portions of said lower tracks, ball bearings in the rearward groove portions of said tracks, a track attached to the outer side of each side wall of the drawer and slidable in the channel between the adjacent tracks of the side walls of the casing, said tracks of the side walls of the drawer in the upper surfaces thereof having substantially V-shaped grooves therealong at the rear portions thereof only, means subdividing each of said last mentioned grooves into a forward groove portion and a rear groove portion, and anti-friction bearings in each of said groove portions, the tracks of the side walls of the drawer bearing such a relation to the uppermost track of the side walls of the casing that the ball bearings of the tracks of the side walls of the drawer will engage the under surfaces of said uppermost casing side wall tracks.

1,686,474. SELF-BAKING ELECTRODE. CARL WILHELM SÖDERBERG, Oslo, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Filed Sept. 18, 1926, Serial No. 136,275, and in Norway Sept. 19, 1925. 17 Claims. (Cl. 266—1.6.)



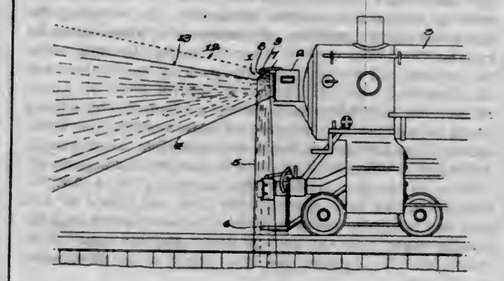
1. The combination of an electrode baked while in use in the electric furnace, an electrode holder, and a current-carrying contact movable relatively to the electrode and the electrode holder.

1,686,475. METHOD OF AND APPARATUS FOR CAUSING OIL TO FLOW THROUGH PIPE LINES. LOUIS W. SOUTHGATE, Washington, D. C. Filed Apr. 11, 1925. Serial No. 22,454. 14 Claims. (Cl. 137—78.)



1. The method of causing oil to flow through a pipe line system, which consists in sucking the oil along at the end of a section thereof, permanently removing the air or gas from the system and then forcing the oil along the next section.

1,686,476. REFLECTOR. DAMON E. STINSON, Portland, Oreg. Filed Mar. 23, 1926. Serial No. 96,797. 1 Claim. (Cl. 240—7.3.)

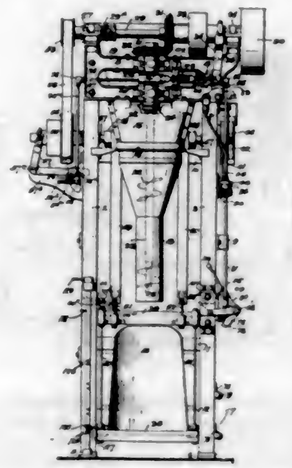


A reflector for illuminating the foot boards of a locomotive comprising a back having lugs, mounted upon a mirror, supporting means attached to the lugs and to a headlight to sustain the mirror in position to intercept and reflect a portion of the light beam, a frame surrounding the mirror and facng the back, means to clamp the back and frame together, and packing means interposed between the mirror, back and frame.

1,686,477. AUTOMATIC SACK PACKER. CHARLES M. STONER, Chambersburg, Pa., assignor to The Wolf Company, Chambersburg, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1925. Serial No. 78,174. 18 Claims. (Cl. 226—25.)

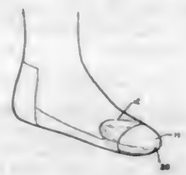
1. In an automatic sack packer, the combination of a vertically movable platform, means including a clutch for elevating the platform, a bell-crank lever for engaging and disengaging the clutch, means for maintaining said lever in its clutch engaging position, trip means carried by the platform for engaging the bell-crank lever to move it out of engagement with its maintaining means and disengage the clutch when the platform moves upward to a predetermined position, one arm of said bell-crank lever being immediately connected to said clutch and the second arm

thereof lying in the path of said trip means, a packing mechanism, and automatic means operable by the platform for starting the operation of the packing means.



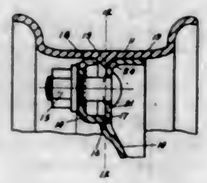
17. In an automatic sack packer, the combination of a vertically movable platform, mechanism including a clutch for raising the platform, an operating lever for the clutch, a brake mechanism for resisting downward movement of the platform, a control lever for the brake mechanism, a packing mechanism, control mechanism for starting the operation of the packing mechanism and simultaneously moving the brake control lever to apply the said brake mechanism and for stopping the packing mechanism and simultaneously moving the brake control lever to partly release the said brake mechanism, a pivoted cam serving when in one position to prevent movement of the brake control lever far enough to completely release the said brake when partly released by the said control mechanism, an operative connection between the operating lever for the clutch and the said cam whereby they are moved in unison, and manually operable means for moving the said operating lever and the cam to cause the platform to be raised and for causing the stop screw to be disengaged by the cam.

1,686,478. WOMAN'S STOCKING. JOSEPH C. J. STRAHAN, New York, N. Y. Filed July 13, 1928. Serial No. 292,336. 4 Claims. (Cl. 66—182.)



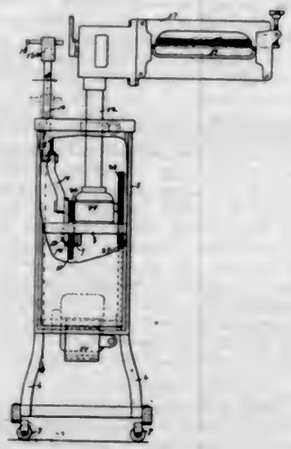
1. As an article of apparel, a full fashioned stocking having a conventional foot portion and a conventional toe portion, and a supplemental toe portion connected to the stocking along the same line along which the first mentioned toe portion is connected and otherwise wholly disconnected from the first mentioned toe portion, said two-toe portions being looped and seamed separately so as to provide two independent toe members, whereby one of the toe portions can be moved out of nested association with the other toe portion and then removed.

1,686,479. WHEEL. JOHN W. WHITE, Buffalo, N. Y. Filed Sept. 2, 1922. Serial No. 585,952. 5 Claims. (Cl. 301—22.)



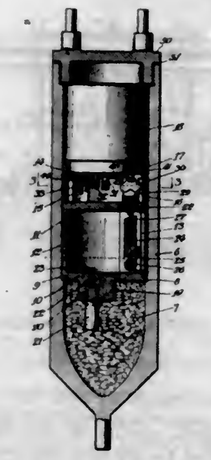
5. A disc wheel, comprising a wheel disc, a rim having an inwardly projecting bead along its median line, and clamping means, said bead being between said disc and said clamping means and said disc and means bearing gainst the sides of said bead along single lines of contact at opposite sides of the median line to hold said rim upon said wheel.

1,686,480. WASHING MACHINE. HERBERT E. WILLIAMSON, San Francisco, Calif. Filed Mar. 31, 1926. Serial No. 98,762. 1 Claim. (Cl. 74—7.)



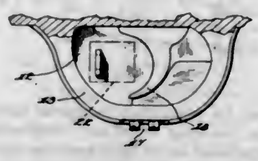
In a washing machine of the character described, a portable casting, a motor resiliently supported in said casting, a gear mechanism supported within said casting and adapted to be driven by said motor, said gear mechanism comprising a shaft, a gear mounted on said shaft, a pivoted member supported below said gear, a second gear mounted on said pivoted member, means for raising said second mentioned gear into contact with said first mentioned gear, a crank secured to said second mentioned gear, a pitman secured to said crank, a reciprocating rod secured to said pitman and adapted to be actuated thereby, a bevel gear positioned on said shaft and having a second bevel gear in constant mesh therewith, said second mentioned bevel gear being adapted to drive a vertically disposed shaft for the purpose specified.

1,686,481. OIL-WELL TORPEDO. THOMAS M. WINDER and WILLIAM R. MURROW, Independence, Kans. Filed May 16, 1927. Serial No. 191,588. 5 Claims. (Cl. 102—4.)



1. A clockwork mechanism for the purpose described, having a timing and an alarm mechanism, including a winding key for each, and a latch movable into and out of engagement with the alarm key and engaged by the key of the timing mechanism to withdraw it from engagement with the alarm key.

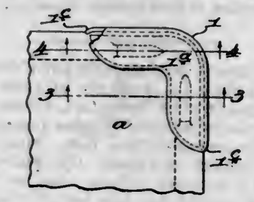
1,686,482. TRIGGER LOCK FOR FIREARMS. RANDOLPH T. WINDLE, New York, N. Y. Filed May 25, 1927. Serial No. 194,155. 2 Claims. (Cl. 42—1.)



1. In combination with a fire arm having a trigger and trigger guard, a pair of separable sections enclosing said trigger and trigger guard, a stop within and carried by said trigger guard in the path of backward movement of said trigger, and lock means for holding said sections in locked position upon said fire arm.

1,686,483. BINDING CORNER. WALTER B. BALLOU, HOWARD M. BALLOU, and LESTER S. WALL, North Attleboro, Mass., assignors to R. Blackinton & Co., North Attleboro, Mass., a Copartnership. Filed Feb. 27, 1926. Serial No. 91,271. 3 Claims. (Cl. 150—38.)

1. A corner binder for pliable fabric wallets and the like, comprising an inner concealed flat attaching member secured to the marginal corner portion of the wallet to lie within the edges thereof, a corner binder of angular contour conforming to the edge of the corner portion of the wallet and comprising two inwardly extending integral parallel flat members spaced apart sufficiently to receive between them a corner portion of the fabric, the interior edge portion of one of said flat members being turned



sharply inward to form a lip having interlocking engagement with the interior edge of the attaching member which it covers and conceals.

1,686,484. DRIER AND THE COMBINATION THEREOF WITH DRYING OILS. HYYM E. BUC, Roselle, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Sept. 16, 1927. Serial No. 220,060. 3 Claims. (Cl. 134—57.)

3. A drier for use with drying oils, comprising the lead salt of an oil soluble sulphonic acid derived from the treatment of petroleum oils with fuming sulphuric acid or sulphuric anhydride.

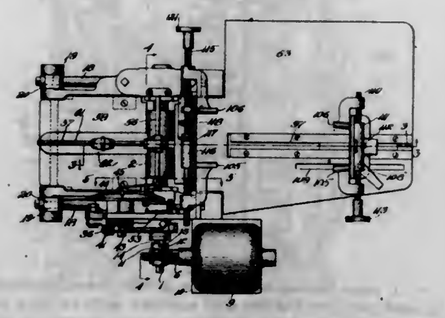
1,686,485. DRIER AND THE COMBINATION THEREOF WITH DRYING OILS. HYYM E. BUC, Roselle, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Sept. 26, 1927. Serial No. 222,215. 3 Claims. (Cl. 134—57.)

3. A drier for use with drying oils comprising the cobalt salt of an oil soluble sulphonic acid derived from the treatment of petroleum oils with fuming sulphuric acid or sulphuric anhydride.

1,686,486. DRIER AND THE COMBINATION THEREOF WITH DRYING OILS. HYYM E. BUC, Roselle, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Sept. 26, 1927. Serial No. 222,216. 3 Claims. (Cl. 134—57.)

3. A drier for use with drying oils comprising the manganese salt of an oil soluble sulphonic acid derived from the treatment of petroleum oils with fuming sulphuric acid or sulphuric anhydride.

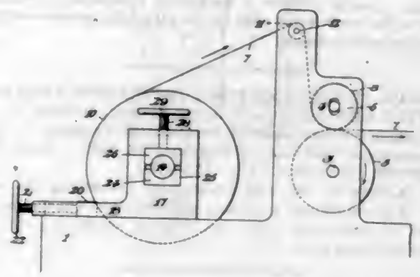
1,686,487. GRADING MACHINE. LEANDER A. COGSWELL, Manchester, N. H., assignor to Lacene Manufacturing Company, Manchester, N. H., a Corporation of Maine. Filed Mar. 18, 1927. Serial No. 176,415. 16 Claims. Cl. 33—147.)



1. A grading machine comprising detecting means, grading mechanism, means whereby the grading mechanism is responsive to the detecting means, feeding mechanism for

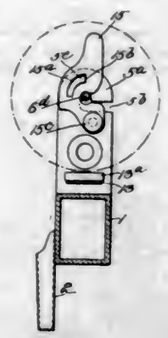
feeding blanks one at a time to the detecting means, and mechanism operated automatically when the operator removes a graded blank from the machine, to actuate the feeding mechanism to feed another blank into the machine.

1,686,488. DEVICE FOR ADJUSTABLY CONTROLLING THE LOCATION OF ROLLER SHAFTS IN PAPER-FEEDING MACHINES. ARTHUR L. FOSTER, Middletown, N. J., ass'gnor to Manifold Supplies Company, Brooklyn, N. Y., a Corporation of New York. Filed May 5, 1927. Serial No. 189,008. 5 Claims. (Cl. 242—58.)



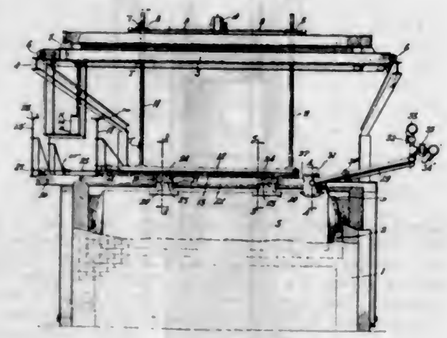
1. A device adapted for angularly adjusting a shaft; comprising a slide journal box having a bight flange adapted to be loosely, removably looped over a stationary abutment; a journal screw extending in threaded engagement with the end of said bight flange, axially movable by rotation therein, and adapted to bear upon such abutment, whereby rotation of said screw is adapted to shift said journal box relatively to said abutment, in but one direction, and said screw may be rotated in the opposite direction without relative movement of said box and abutment.

1,686,489. YARN-SPOOL BEARING. EDGAR F. HATHAWAY, Wellesley, and WALTER BIXBY, Boston, Mass., assignors to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 5, 1923. Serial No. 666,829. 5 Claims. (Cl. 308—24.)



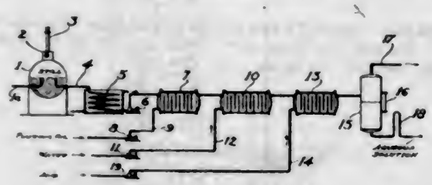
4. A spool-bearing bracket for a tube frame embracing in combination a bearing arm provided with an open slot-bearing for rotatably supporting a spool journal, a latch pivotally mounted on said arm to interpose a journal-retaining portion between the closed end of the slot and the pivotal center of the latch.

1,686,490. ART OF OBTAINING LIGHTER PRODUCTS FROM HYDROCARBONS. FRANK A. HOWARD, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Aug. 16, 1922. Serial No. 582,114. 6 Claims. (Cl. 196—70.)



1. A systematic method of heat treating hydrocarbon oil, comprising contacting a distillation vessel containing the oil with a molten material maintained at a high temperature, collecting the distillate and breaking said contact of distillation vessel with said molten material as soon as the distillation is substantially completed.

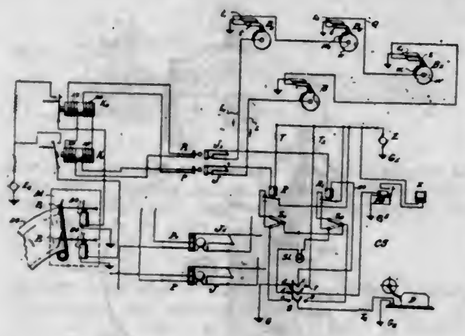
1,686,491. PREPARATION OF FUEL OIL. WAYNE S. HUGHES and JAMES HARROP, Baytown, Tex., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Jan. 19, 1927. Serial No. 162,021. 5 Claims. (Cl. 196—40.)



1. A process for separating inorganic matter from the liquid residue resulting from the distillation of hydrocarbon oil in presence of alkali comprising emulsifying said residue with water, breaking said emulsion by addition of an acid material thereto, and withdrawing the aqueous layer containing inorganic matter.

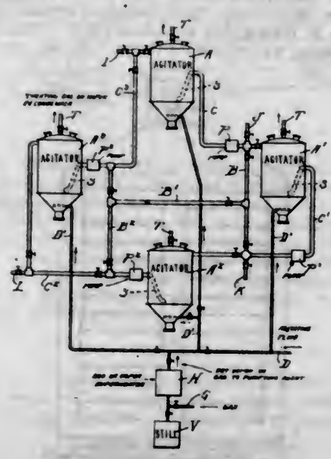
1,686,492. CALL-BOX TROUBLE DETECTOR. GEORGE W. JANSON, Nutley, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Sept. 26, 1925. Serial No. 58,912. 2 Claims. (Cl. 177—367.)

1. In combination with a messenger signaling system having signal call boxes, each being provided with two break wheels having their teeth arranged in staggered relation, one of which is connected through a contacting brush in the line and the other cooperating with a grounded brush, whereby upon the operation of a box the line is first momentarily opened and then momentarily grounded for each signal impulse of the code signal, of a testing equipment for determining whether the call boxes are in normal operative condition, comprising an electro-responsive device having two windings which magnetically assist each other, and an electro-responsive device having two windings which magnetically oppose and neutralize each other, one winding of each device being connected in the outgoing



lead of said system and the other windings of said devices being connected in the return lead of said system, and indicating elements controlled respectively by said devices.

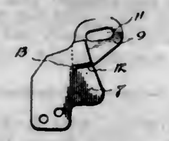
1,686,493. REFINING OILS, ETC. WARREN K. LEWIS, Newton, Mass., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Aug. 23, 1923. Serial No. 658,878. 4 Claims. (Cl. 196—147.)



4. In a process of purifying oils and the like continuously, the steps of agitating the oil with an adsorbent material in a succession of units, passing the oil successively from one unit to another, agitating the oil in each such unit with a charge of adsorbent material, removing the oil from the adsorbent material washing the adsorbent material with naphtha after removing the oil therefrom, drying said adsorbent material by blowing hot gaseous fluid therethrough in the unit where used, and supplying fresh adsorbent material to replace said spent washed and dried material.

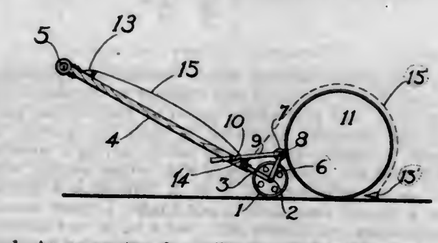
1,686,494. ELECTRIC SWITCH. RAGNAR O. W. LUNDIN, North Attleboro, Mass., assignor to Barber Electric Manufacturing Company, North Attleboro, Mass. Filed Aug. 25, 1927. Serial No. 215,440. 2 Claims. (Cl. 200—15.)

2. In an electric switch, a switch blade, an actuator for said switch blade, coupling means operatively connected to said actuator, said means comprising an intermediate insulating piece secured to said blade and an end connecting device composed of sheet metal bent to form a



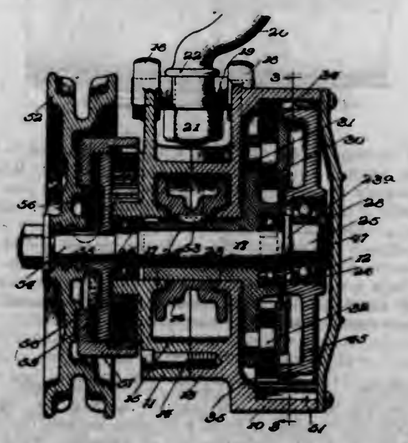
U-shaped member; said member engaging a slot in said intermediate member, and said end member having a slot in which said actuator is engaged.

1,686,495. BARREL-ROLLING DEVICE. THOMAS E. MCDANIEL, Charleston, S. C., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed July 27, 1925. Serial No. 46,249. 2 Claims. (Cl. 294—4.)



1. An apparatus for rolling cylindrical bodies comprising a revolvable wheel, an axle therefor, a handle shaft, extensions therefrom, bearings for said axle in the ends of said extensions, pivotal supports from said axle bearing a second axle, a second revolvable wheel on said second axle, a pin in said handle shaft, a notched bar pivotally mounted on said second axle and extending to said pin, the position of said second wheel being adjustable by means of said notched bar extending from said second axle to said pin.

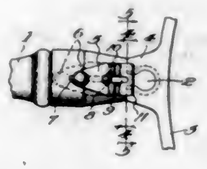
1,686,496. CHAIN HOIST. SAMUEL H. NORTON, Meadville, Pa. Filed Aug. 13, 1925. Serial No. 50,074. 2 Claims. (Cl. 74—34.)



1. A hoist comprising a housing having a fixed internal ring gear, a shaft mounted axially of the housing and provided with an eccentric gear in mesh with the ring gear

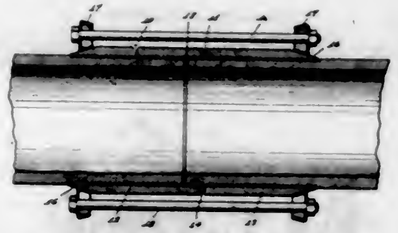
and rotatable on the eccentric of the shaft, a sleeve on the shaft and provided with a diametrically disposed flange, a roller projecting laterally from each end of the flange, a floating disc provided with slots, a pair of the slots receiving the rollers, said disk being mounted eccentrically of the shaft, the rotatable gear having diametrically disposed rollers received by the remaining slots in the disk.

1,686,497. SECURING MEANS FOR DETACHABLE HANDLES. NORMAN D. OLSEN, Chicago, Ill., assignor to Acme Aluminum Foundry Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1927. Serial No. 178,297. 2 Claims. (Cl. 16—114.)



1. A detachable securing handle combination comprising a vessel, a pair of spaced lugs attached to the outside of said vessel, said lugs widely spaced at their bottom portion and gradually narrowing to their top portion, a handle, a rounded end on said handle having a narrow top portion and a comparatively wide bottom portion, said end portion being adapted to fit in between said spaced lugs, a slidable plate fixed to said handle, a thumb means for actuating said slidable plate, and a lip on said slidable plate adapted to slide over the top of said spaced lugs and end portion of the handle.

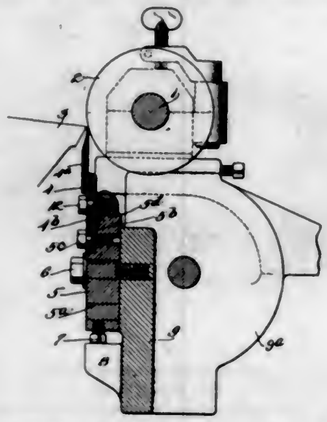
1,686,498. COUPLING FOR FIBER PIPES. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Oct. 16, 1922, Serial No. 594,797. Renewed Sept. 30, 1925. 5 Claims. (Cl. 285—138.)



I. A coupling for fiber pipe, and in combination, a fiber pipe having an externally threaded end, an integral internally threaded fiber sleeve screwed on said pipe and having a tapered end which is circumferentially continuous, a collar having its internal periphery tapered correspondingly to and arranged about the tapered end of said sleeve and adapted to compress the same against the pipe to form a tight joint therebetween, and bolts for drawing said collar longitudinally upon the tapered end of said sleeve whereby the latter is compressed.

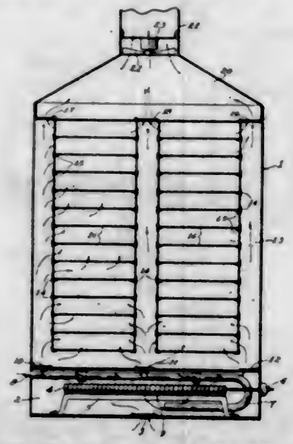
1,686,499. LEDGER-BLADE CONSTRUCTION FOR CLOTH SHEARS. CHARLES G. RICHARDSON, Springfield, Vt., assignor to Parks & Woolson Machine Company, Springfield, Vt., a Corporation of Vermont. Filed Jan. 9, 1924. Serial No. 685,246. 11 Claims. (Cl. 26—15.)

2. In a cloth shearing machine, the combination with a rotary fly blade, of a cooperating ledger blade, a series of draft screws securing said ledger blade to a supporting head, a series of thrust screws mounted in said ledger blade and thrusting against said head thereby producing an outward thrust against adjacent portions of the ledger blade, and



means for adjusting said supporting head to move the ledger blade into shearing position without disturbing the longitudinal alignment of the ledger blade, substantially as described.

1,686,500. DEHYDRATING DEVICE. FREDERICK E. WHORFF, Mill Valley, Calif., assignor of one-fourth to William R. Whorff, San Francisco, Calif. Filed Oct. 12, 1927. Serial No. 225,607. 1 Claim. (Cl. 34—39.)

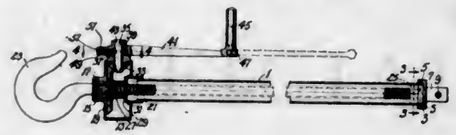


In a dehydrating device of the character described, a drying chamber, an air-heating chamber and an air-exhaust chamber in damper-controlled communication respectively with said drying chamber, a heating unit interior said air-heating chamber, damper-controlled means leading from said last mentioned chamber to atmosphere, an air preheater leading from atmosphere to and through said heating chamber in juxtaposed relation with said unit and discharging therebeneath, and means for the control of the air admitted to said air preheater.

1,686,501. SLACK PULLER AND JACK. IRA B. HART, St. Louis, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 18, 1924. Serial No. 744,330. 3 Claims. (Cl. 254—67.)

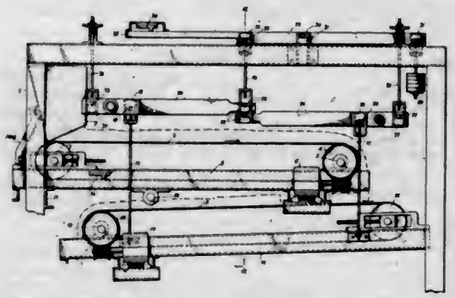
1. In a slack puller, the combination of a screw, a housing adapted to completely enclose a reducing gear train, a nut

in said housing driven to rotate by said train located in said housing, said nut engaging said screw, the screw having slidable movement through said housing, a polygonal tube attached at one end to said housing and at the



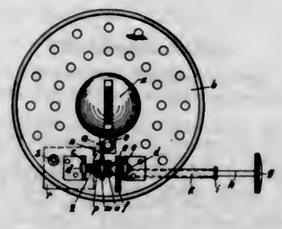
other to an enclosing fastener, the tube being adapted to receive and completely enclose the movable screw, and a polygonal block slidably cooperating with the inside of the tube fastened to the screw.

1,686,502. AUTOMATIC WEIGHING MACHINE. HENRY RICHARDSON and STANLEY G. MURRAY, Clifton, N. J. Filed Oct. 30, 1926. Serial No. 145,241. 24 Claims. (Cl. 249—22.)



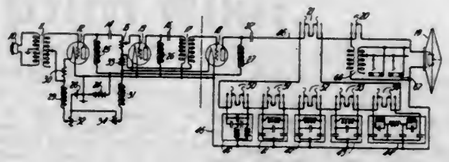
1. An automatic weighing machine comprising a conveyer having means for operating it continuously, weighing means supporting a portion at least of said conveyer, and a feed conveyer arranged to feed material to be weighed to said continuously operating conveyer and having means for advancing it intermittently under the control of the weighing means, whereby separate weighed charges of material are formed successively on said continuously operating conveyer.

1,686,503. LAMP. FRIEDA SCHMIDTKE, Berlin, Germany. Filed Sept. 16, 1927, Serial No. 219,975, and in Great Britain Aug. 23, 1927. 1 Claim. (Cl 67—10.1.)



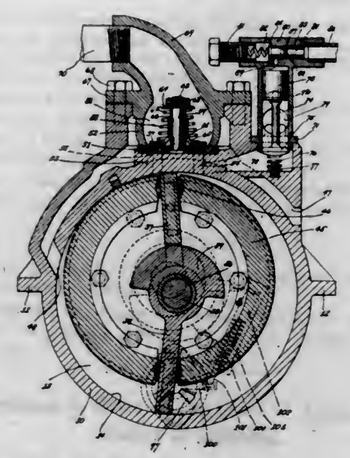
The combination in a lighting device for lamps especially lanterns, of a lamp burner and a secondary burner lighted by means of a pyrophoric sparking device consisting of a metallic container of spirit, a wick tube *a*, a cap to close the mouth of said tube fastened by means of an arm to a disc *m*, turning loosely on a shaft *d*, mounted in brackets *c*, a clutch member *p* slidably feathered on said shaft *d* and controlled by a spring *z*, an abrasive wheel *u*, a flint *v* pressed against said wheel and a pinion *e* fixed on shaft *d*, said pinion meshing with a gear wheel *f* mounted on the shaft *h*, a milled wheel *g* to turn said shafts, all substantially as described.

1,686,504. STETHOSCOPIC APPARATUS. HAROLD F. DODGE, New York, N. Y., and HALSEY A. FREDERICK, Mountain Lakes, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 29, 1924. Serial No. 716,624. 7 Claims. (Cl. 128—2.)



1. In stethoscopic apparatus, means adapted to be placed in contact with the body for detecting sound vibrations arising therein and translating said sound vibrations into corresponding electrical vibrations, electric filters and means for controlling said filters whereby any predetermined band of said electrical vibrations may be passed and all others suppressed, and means for translating said passed electrical vibrations into observable effects.

1,686,505. ROTARY COMPRESSOR. GOTTLIEB I. STASTNY, New York, N. Y. Filed Feb. 5, 1927. Serial No. 166,064. 5 Claims. (Cl. 230—138.)



1. In a compressor, a casing having a cylindrical chamber therein, an annular drum rotatable in said chamber eccentrically, said drum having opposing diametrical channels therein, counter balanced blades slidable in said channels and rotatable with the drum, a bell above said casing, curved channels connecting said bell and chamber, a check valve in said bell opening or closing communication to said curved channels; a valve normally closing said curved channels, and means for by-passing the air stream from the curved channels into the atmosphere.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 375—No. 2. TUESDAY, OCTOBER 9, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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Issue of October 9, 1928.

Trade-Marks	195—	No. 247,814 to No.	248,008,	inclusive.
T. M. Renewals	13			
Labels	76—	No. 34,684 to No.	34,759,	inclusive.
Prints	6—	No. 11,257 to No.	11,262,	inclusive.
Reissues	6—	No. 17,097 to No.	17,102,	inclusive.
Designs	77—	No. 76,517 to No.	76,593,	inclusive.
Patents	979—	No. 1,686,506 to No.	1,687,484,	inclusive.
Total	1,352			

Interference Notice.

U. S. Patent Office, *Washington, Sept. 13, 1928.*

Alice L. Lynch, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of John L. Lombardo, 59–61 Broadway, Buffalo, N. Y., for registration of a trade-mark and trade-mark registered July 3, 1923, No. 169,843, to Alice L. Lynch, of 442 West Forty-Third Street, New York, N. Y., and a notice of such declaration sent by registered mail to the said Alice L. Lynch at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Alice L. Lynch, her assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

M. J. MOORE,
First Assistant Commissioner.

Adjudicated Patents.

(C. C. A. Ohio.) The Gullborg patent, No. 1,807,734, for supplying lubricant under pressure, claim 7 *Held* infringed. *Bassick Mfg. Co.* v. *Lyman Mfg. Co.*, 27 F. (2d) 491.

(C. C. A. Md.) The Gibbs patent, No. 1,540,691, for improvements in animal traps, claim 16 *Held* valid and infringed. *Montgomery Ward & Co.* v. *Gibbs*, 27 F. (2d) 466.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Design Pat. 70,506, J. L. McGarity, Hose, decided September 22, 1928.

Pat. 1,550,804, J. Harris, Electricity meter, decided August 31, 1928, claim 17.

Pat. 1,560,502, L. De Forest, Sound-reproducing device, decided July 14, 1928, claims 1 to 20, inclusive.

Final decision in interference has been rendered against the following trade-mark:

T. M. 209,470, Hosiery, Bonwit Teller & Co., New York, N. Y. Registered February 23, 1926. Decided August 31, 1928.

Amendment to Rules of the Court of Appeals of the District of Columbia.

Paragraph 2 of Rule VIII of the Court of Appeals of the District of Columbia, as amended October 2, 1926, reads as follows:

"2. Only one hour, and in ex parte and trade-mark cases from the Patent Office a half hour, on each side shall be allowed in the argument, unless by special leave the time is extended by the court before the argument is commenced; but counsel in order to avail themselves of the opportunity to apply for additional time must make request therefor to the court accompanied by a copy of their printed brief, at least five days before the case is liable to be called for argument. The time may be apportioned between counsel on the same side at their discretion. In all cases, however, a full and fair opening must be made."

Condition of Applications Under Examination at Close of Business September 28, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 113,072; Trade-Mark Division, 2,108. Oldest new case, Nov. 30, 1927; oldest amended, Nov. 29, 1927. The dates given are 1928 except where † indicates 1927.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application awaiting office action.	Oldest amended application awaiting office action.	No. of applications awaiting action.
		New.	Amended.	
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Feb. 6	Feb. 4	1,553
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Jan. 25	Feb. 10	1,682
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Jan. 18	Jan. 31	1,500
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	†Dec. 10	†Dec. 8	1,623
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	†Dec. 12	†Dec. 13	1,592
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	†Dec. 21	Jan. 14	2,631
106	7. JARBOE, C. G., Optics; Photography	†Dec. 12	†Dec. 17	1,998
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Feb. 9	Mar. 14	1,684
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 15	Mar. 12	1,798
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Jan. 25	Jan. 24	1,868
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Feb. 24	Feb. 17	970
380	12. PIERCE, P. P., Machine Elements	Jan. 31	Jan. 23	2,020
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Jan. 25	Jan. 24	1,511
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	†Dec. 29	Jan. 3	1,242
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 3	Jan. 7	2,553
242*	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 23	Feb. 4	1,190
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Dec. 16	Feb. 9	1,520
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	†Dec. 29	†Dec. 23	1,668
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Jan. 9	Jan. 13	1,910
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Apr. 2	Apr. 2	1,471
212	21. THURBUR, W. L., Textiles; Cloth Finishing	†Dec. 31	Jan. 19	1,077
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	†Dec. 13	†Dec. 19	1,664
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	†Dec. 7	†Dec. 13	1,136
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Dec. 23	†Dec. 24	1,551
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Thresbing; Vegetable and Meat Cutters and Comminutors.	Mar. 1	Mar. 13	1,725
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Jan. 17	Jan. 18	1,189
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 5	Mar. 2	1,482
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 10	Jan. 17	1,946
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Jan. 25	Feb. 1	1,171
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Jan. 11	Mar. 22	1,498
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Jan. 16	Jan. 17	2,166
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	†Dec. 30	†Dec. 30	2,175
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Apr. 18	Apr. 18	1,968
304	34. SIMPSON, O. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	†Dec. 7	†Dec. 20	1,420
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Mar. 27	Apr. 2	1,635
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Feb. 20	Feb. 16	2,077
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Dec. 14	Jan. 21	2,265
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Feb. 20	Feb. 18	1,917
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Dec. 8	†Dec. 2	1,916
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Jan. 3	Feb. 17	2,716
125	41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Feb. 2	Feb. 18	1,470
223*	42. CUTTING, H. O., Electric Signaling	†Dec. 17	Jan. 26	1,635
124*	43. HOPKINS, F. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Jan. 20	Mar. 6	2,222
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Jan. 13	Jan. 31	2,135
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	†Dec. 19	†Dec. 21	2,480
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	†Dec. 19	†Dec. 23	1,929
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Jan. 16	Feb. 3	2,079
212*	48. ROEPKE, O. B., Electricity, General Applications	Jan. 16	Jan. 24	1,596
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	†Dec. 1	Jan. 23	1,574
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Jan. 23	Jan. 27	2,600
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Jan. 16	Jan. 10	2,293
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Feb. 2	Feb. 3	2,185
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Feb. 13	Feb. 15	1,819
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Jan. 12	Jan. 12	2,415
102	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	Jan. 2	Jan. 3	884
	55. BOWEN, S. T.—Designs	Aug. 11	Sept. 12	623
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	†Nov. 30	†Nov. 29	2,577
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Jan. 4	Jan. 17	1,194
270*	58. DOWELL, E. F., Abrading; Typewriting	†Dec. 14	†Dec. 14	1,457
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	†Dec. 10	†Dec. 12	2,558
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	†Dec. 8	†Dec. 27	1,671
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	†Dec. 16	†Dec. 14	2,188
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage, Package and Article Carriers.	†Dec. 20	Jan. 6	2,810
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND—Trade-Marks	Sept. 1	Sept. 14	1,919
	Trade-Marks, Labels, and Prints: F. A. RICHMOND—Labels and Prints	Sept. 4	Sept. 21	189

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

IN RE HAMMOND.

No. 1,977. Decided March 5, 1928.

1. PATENTABILITY—AUTOMOBILE BUMPERS.

Claims to an automobile bumper, including the limitation "said bumper offering substantially no obstruction at the rear of the vehicle inwardly beyond" its point of attachment to the frame of the vehicle, *Held* unpatentable in view of the prior art.

2. SAME—SAME—INVENTION.

In determining the patentability of claims to an automobile bumper which include the limitation "said bumper offering substantially no obstruction at the rear of the vehicle" beyond its point of attachment to the vehicle, the fact that, at the time of the issuance of the S. patent, fenders for the rear wheels of automobiles did not extend so low as at the time applicant filed his application and that there was at the former time no device known for carrying a spare tire at the rear of a vehicle *Held* immaterial, since the inventive idea was the same, whatever may be the length of the fenders, and there was no invention in perceiving the obvious fact that the bumpers of the S. patent would permit access to the rear of the automobile, where applicant mounts his spare-tire carrier.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. J. H. Milans and *Mr. C. T. Milans* for Hammond.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

MARTIN, *C. J.:*

An appeal from a decision rejecting all of the 15 claims of appellant's application for a patent, except claim 5. Claims 10, 11, 12 and 15, however, have been withdrawn by appellant from this appeal.

The invention relates to improvements in spare-tire carriers and rear bumpers for automobiles. The bumpers of the invention do not extend entirely across the width of the automobile but are used in pairs each extending only from one side of the car across the width of the adjacent fender. This arrangement provides an independent impact-receiving structure at the rear and side of the automobile, and permits of the removal of the spare tire from its carrier at the back of the automobile without lifting the tire upwards as would be necessary if a single bumper were extended across the entire width of the automobile.

The present application was filed on February 9, 1921. It is a division of appellant's application filed April 23, 1917, which matured into a patent issued May 3, 1921. That patent was involved in interference and during its pendency appellant filed another application as a division thereof, and on December 16, 1924, a patent was issued to him thereon.

Claim 1 is copied as illustrative.

1. A bumper attachment adapted to be applied at the rear of an automobile having a rear wheel fender whereby to protect said fender, comprising an attaching portion extending lengthwise of the vehicle frame at that side thereof adjacent the fender and having means of connection directly to the frame, a laterally projecting portion connecting to the rear end of said attaching portion and projecting outward to a point adjacent the outer side of said fender and arranged at a point rearwardly of the fender, said bumper offering substantially no obstruction at the rear of the vehicle inwardly beyond its attaching portion, the lateral and lengthwise extending portions of the bumper being integral and formed of metal, and all parts of the bumper from its attachment point being flexible throughout.

By concurrent decisions of the Patent Office tribunals all of the present claims except No. 5, were rejected. It was held that claims 1, 2, 3 and 4 define no invention other than that held unpatentable in the interference proceeding; that claims 6, 7, 8 and 9 define no invention over the patent to Simms, March 6, 1906; that claim 10 is not patentably different from the original issue of the interference, or from the subject matter of applicant's later patent; that claims 11, 12, 13, 14 and 15 are unpatentable in view of Simms, supra; Van Gelder, January 14, 1913; Harnishfeger, May 20, 1913; Hoover, July 18, 1916; and appellant's patents issued respectively May 3, 1921, and July 17, 1924.

[1, 2] In our opinion the claims were rightly rejected. The patent of Simms, supra, provides "buffers" to be attached to the front, side or back of the frame of the motor vehicle, to prevent damage to lamps, wings, radiators, and other parts of the vehicle; the buffers are to be curve-shaped and fitted in pairs to the front or back of the vehicle frame. The diagrams shown by Simms, especially Fig. 12, anticipate appellant's claims as to the bumpers. It is argued for appellant that at the time when the Simms patent was issued the fenders of the rear wheels did not extend so low as in the modern automobile and that there was then no need to protect the lower ends of the fenders as at present. That fact however is not material, for the inventive idea remains the same whatever the length of the fenders may be. It is true that when the Simms patent was issued no device was known for carrying spare tires upon the rear end of an automobile. Nevertheless the Simms rear bumpers permit of access to the rear end of the car where appellant mounts his spare tire carrier. There was no invention in perceiving this obvious fact.

In view of the full and correct decisions of the tribunals of the Patent Office it is only necessary for us to say that upon the references aforesaid both as to bumpers and spare tire carriers the appealed claims were rightly rejected.

The decision of the Commissioner of Patents is affirmed.

Court of Appeals of the District of Columbia.

MACFARREN *v.* MORGAN.

No. 2,017. Decided March 5, 1928.

1. INTERFERENCE—INTERPRETATION OF COUNTS.

The counts of an interference should, if possible, be given an interpretation consistent with the specification in which they originated, and attempts to enlarge the scope of an application, once filed, should be frowned upon, especially when the result would be the appropriation of an intervening invention.

2. SAME—SAME—RIGHT TO MAKE THE CLAIMS.

Where the applications directly involved in interference disclose, in connection with a coal-mining machine, pressure-exerting devices designed to break down the coal after the kerf has been cut, *Held* that counts including the pressure-exerting device are not supported by an earlier application of Morgan in which pressure-exerting devices were provided for supporting blocks of coal which might fall from above the kerf in order to prevent them from binding the cutters, since these devices "being designed merely to prevent the falling of coal upon the cutter frame are not 'pressure-exerting' devices within the sense of the counts."

APPEAL from the Commissioner of Patents. Reversed.

Mr. Archworth Martin for Macfarren.

Mr. C. M. Nissen and *Mr. A. J. Crane* for Morgan.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

MARTIN, *C. J.*:

The invention involved in this interference relates to coal-mining machines. The parties are Macfarren and Morgan; Macfarren is the senior party, having filed his application on November 3, 1915; Morgan's application was filed on November 19, 1917. Neither party has taken testimony. Macfarren relies upon his filing date for constructive reduction to practice; while Morgan relies upon an earlier application filed by him on July 5, 1913, and now copending, as proof of his reduction to practice of the subject matter as of that date.

There are 8 counts in issue. Of these counts 7 and 8 have been awarded to Macfarren without dispute. As to the remaining counts, the Examiner of Interferences awarded priority to Macfarren as to counts 1, 2 and 3, and to Morgan as to counts 4, 5 and 6. Cross appeals were taken from this decision by the respective parties, whereupon the Examiners in Chief affirmed the Examiner's award to Macfarren as to counts 1, 2 and 3, but reversed the award to Morgan as to counts 4, 5 and 6. The Commissioner of Patents, upon appeal, affirmed the decision of the Examiners in Chief as to counts 1, 2 and 3, but reversed their decision as to counts 4, 5 and 6, and awarded priority to Morgan as to them. Macfarren has appealed to this court from the decision denying him priority as to counts 4, 5 and 6; Morgan has taken no appeal.

Macfarren as the senior party is entitled to prevail unless the invention defined by counts 4, 5 and 6 of the issue is disclosed in Morgan's application filed on July 5, 1913. Whether such a disclosure appears in the application is the controlling question in the case.

Counts 1, 4 and 6 are copied for illustration. The first of these is not directly involved in this appeal, but is illustrative of counts 1, 2 and 3 herein referred to.

1. In a mining machine, the combination of a frame, a cutting-chain carried thereby, and means lying within the boundary formed by the cutting-chain and positioned within the kerf cut by said chain, for breaking out the material being mined, said breaking means being operatable independently of the movement of the cutting-chain.

4. In a mining machine, the combination with a plane kerf-cutter, comprising a cutter-frame and an endless traveling chain-cutter mounted thereon, of a pressure-exerting device carried by said cutter-frame within the boundary of the chain-cutter and comprising relatively telescoping members with a spring inclosed thereby.

6. In a machine for breaking coal out of the solid, a frame, cutting means carried thereby for forming an opening in the coal to permit of its deflection for breakage and for also making an opening in the coal adapted to receive a pressure-exerting device, a support held by said frame and projecting directly inward therefrom to have its inner end part directly support the cutting means, and a vertically movable pressure-exerting device also carried by said support and normally stationary thereon and adapted to be vertically moved relatively thereto on vertical lines which are within the outlines of the path of the cutter and which pass through said support.

The applications involved in this interference plainly describe certain mechanical devices acting in combination with kerf and slot cutters for breaking down coal from the face of the seam after the cutting of two or more related kerfs or slots therein. The kerfs or slots are cut into the coal seam by means of cutter chains moving around a forward-extending frame which is brought into contact with the coal. Mounted within the plane of the cutter frame and within the boundaries of the cutter chain, are devices comprising a cylinder and plunger positioned transversely to the plane of the cutter frame, and to which fluid under pressure may be periodically admitted to expel the plunger and thereby exert pressure to break down the coal. This avoids the necessity of withdrawing the machine and the cutter bar for the purpose of employing other means such as explosives in order to break down the coal. The cylinders are always in operative position, and it is only necessary that fluid pressure be admitted to them through a control valve whenever a kerf or slot of sufficient depth has been cut.

It is clear that Morgan's application of July 5, 1913, did not disclose this invention. It made no claim to any device for breaking down the coal after the cutting of the kerfs or slots. It made claim to devices designed to support such blocks of coal as might fall from above the cut, in order to prevent them from settling upon and binding the cutters while in action, describing them as "yielding cushions to prevent the binding of the cutting mechanisms while the cut is being made." This claim however did not constitute a disclosure of the invention for breaking down the coal, herein involved. It was upon this conclusion that the Commmissioner based his decision against Morgan as to counts 1, 2 and 3. But the Commissioner held that the corresponding devices described in counts 4, 5 and 6, being described simply as "pressure-exerting" devices without specifying their functions, would read upon Morgan's earlier disclosure, and for this reason the Commissioner awarded priority to Morgan as to these counts.

[1, 2] We think this ruling erroneous. In *Hauss* v. *Merrell*, 48 App. D. C. 433, 261 O. G. 956, this court held that in an interference proceeding, the claims will, if possible, be given an interpretation consistent with the specification in which they originate; and also that attempts to enlarge the scope of an application once filed should be frowned upon, especially when the result would be the appropriation of an intervening invention. In our opinion the devices of Morgan's earlier application, being designed merely to prevent the falling of coal upon the cutter frame, are not "pressure-exerting" devices within the sense of the counts, and it appears from the record that it was not until seven years had elapsed after the filing of the earlier application, and after Macfarren had filed his present application, that Morgan made such a claim.

The decision of the Commissioner of Patents awarding priority to Morgan as to counts 4, 5 and 6, is reversed, and priority as to them is awarded to Macfarren.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

976,939, E. O. Sirrine, Street traffic system, filed Aug. 1, 1928, D. C. Wash. (Seattle), Doc. 642, *L. E. Sirrine et al.* v. *The City of Seattle.*

1,012,820, C. B. Cory, Golf game; 1,391,306, R. Eliaser, Game; 1,573,415, Mendes & Lanners, Toy golf game, D. C. Minn., 4th Div., Doc. E 882, *Chester Pollard Amusement Co., Inc.*, v. *Popular Games, Inc., et al.* Dismissed Aug. 3, 1928.

1,040,349, 1,223,180, C. F. Kettering, Ignition system; 1,103,092, same, Timer or current interrupter; 1,227,038, W. A. Chryst, Resistance unit for electric circuits; 1,265,918, W. O. Kennington, Circuit breaker and distributer unit; 1,218,568, same, Article composed partly of rubber; 1,218,596, O. F. Conklin, same; 1,354,888, same, Ignition apparatus; 1,372,065, same, Distributer device for ignition apparatus; 1,545,429, J. H. Hunt, Ignition apparatus; 1,556,901, C. E. Berkdoll, same; 1,593,339, 1,557,207, F. C. Kroeger, same; 1,367,988, J. B. Replogle, Spark coil and method of making, filed June 28, 1928, D. C., N. D. Ill., E. Div., Doc. 8414, *Delco Remy Corp.* v. *Brown & Caine, Inc.*

1,042,951, J. Nielsen, Rotary engine or pump, D. C. Minn., 4th Div., Doc. E 560, *The Viking Pump Co.* v. *Perfection Mfg. Co.* Dismissed Aug. 2, 1928.

1,100,767, H. F. Newbury, Signal apparatus, filed Aug. 2, 1928, D. C. Del., Doc. E 691, *Elevator Supplies Co., Inc.*, v. *Graham & Norton Co.*

1,110,796, M. Knorpp, Candle holder, appeal filed Aug. 3, 1928, C. C. A., 2d Cir., *Knorpp Candy Co.* v. *Cypress Novelty Corp.*

1,125,476, G. Claude, System of illuminating by luminescent tubes, D. C., S. D. Calif. (Los Angeles), Doc. E O–15–H, *Electrical Products Corp.* v. *O. Dallons et al.* (*California Neon Specialties Co.*). Consent decree and permanent injunction Aug. 2, 1928. Doc. E O–16–M, *Electrical Products Corp.* v. *R. Gans* (*Gans Electric Co.*). Consent decree for plaintiff; injunction, particularly as to claim 1, Aug. 2, 1928.

1,147,689, J. Stranders, Advertising device, D. C., S. D. Calif. (Los Angeles), Doc. E L–52–J, *H. B. Kruger* v. *Western Lithograph Co.* Dismissed for want of prosecution July 9, 1928.

1,163,092. (See 1,040,349.)

1,173,079, E. F. Alexanderson, Selective tuning system; 1,334,118, C. W. Rice, System for amplification of small currents; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct-current potentials, filed Aug. 14, 1928, D. C., S. D. N. Y., Doc. E 46/143, *Radio Corp. of America et al.* v. *Colonial Radio Corp.*

1,183,875, R. V. Hartley, Electrical circuit; 1,231,764, F. Lowenstein, Telephone relay, filed Aug. 14, 1928, D. C., S. D. N. Y., Doc. E 46/144, *Radio Corp. of America et al.* v. *Colonial Radio Corp.*

1,195,252, F. H. Moyer, Rim tool, D. C., S. D. N. Y., Doc. E 28/875, *General Rim Co.* v. *Firestone Tire & Rubber Co.* Dismissed Aug. 10, 1928.

1,195,923, R. Gans, Softening of water, filed June 21, 1928, D. C., N. D. Ill., E. Div., Doc. 8408, *The Permutit Co.* v. *International Filter Co.*

1,218,568. (See 1,040,349.)

1,218,596. (See 1,040,349.)

1,223,180. (See 1,040,349.)

1,227,038. (See 1,040,349.)

1,227,557, Cochran & Youngs, Make-ready of impression cylinders of printing presses, filed Aug. 6, 1928, D. C. Mass., Doc. E 3004, *New England Fibre Blanket Co.* v. *New England Newspaper Publishing Co.*

1,251,377. (See 1,173,079.)

1,231,764. (See 1,183,875.)

1,265,918. (See 1,040,349.)

1,291,897, W. C. Huebner, Apparatus for positioning the printing plates on the plate holders of photographic-printing apparatus, filed Aug. 10, 1928, D. C., S. D. N. Y., Doc. E 46/137, *Huebner-Bleistein Patents Co.* v. *The Fuchs & Lang Mfg. Co.* Doc. E 46/138, *Huebner-Bleistein Patents Co.* v. *Trautman, Bailey & Blamby.*

1,310,698, H. Hill, Paper or similar cup, filed Aug. 8, 1928, D. C., S. D. N. Y., Doc. E 46/133, *Tulip Cup Corp. et al.* v. *J. Solomon* (*J. & S. Supply Co.*).

1,318,670, H. Hull, Selective signaling apparatus, filed Aug. 9, 1928, D. C., S. D. N. Y., Doc. E 46/134, *Appliance Investment Co.* v. *Western Electric Co., Inc.*

1,323,869. (See Re. 14,777.)

1,334,118. (See 1,173,079.)

1,354,888. (See 1,040,349.)

1,367,988. (See 1,040,349.)

1,372,065. (See 1,040,349.)

1,389,095. (See Re. 14,777.)

1,389,577. (See Re. 14,777.)

1,391,306. (See 1,012,820.)

1,400,171. (See Re. 14,777.)

1,466,437, P. L. Hill, Process for making character carriers for composing machines, filed July 9, 1928, D. C., E. D. N. Y., Doc. E 3758, *Matrix Contract Corp. et al.* v. *H. Gitlow.*

1,482,747, F. M. Howe, Spraying outfit, filed Aug. 7, 1928, D. C., S. D. N. Y., Doc. E 46/127, *The Electric Sprayit Co.* v. *J. A. Kollman.*

1,495,510, G. E. Escher, Process of making concrete, filed Aug. 9, 1928, D. C., E. D. Ill. (Danville), Doc. 199—D, *G. E. Escher et al.* v. *C. S. Johnson.*

1,524,737, W. Kritchevsky, Decolorizing substance, filed June 18, 1928, D. C., N. D. Ill., E. Div., Doc. 8366, *Rit Products Corp.* v. *Angel Dainty Dye Co.*

1,528,345. (See 1,536,691.)

1,536,691, H. W. Russ, Heel-blank breast-shaping machine; 1,528,345, same, Heel and method of making, D. C., S. D. Ohio, W. Div., Doc. E 473, *United Shoe Machinery Corp.* v. *The Day Wood Heel Co.* Patent 1,536,691 held valid and infringed as to claims 1, 3, 5, and 6; Patent 1,528,345 held invalid, Aug. 6, 1928.

1,545,429. (See 1,040,349.)

1,556,901. (See 1,040,349.)

1,557,207. (See 1,040,349.)

1,559,474, J. Teruya, Amusement apparatus, D. C., E. D. N. Y., Doc. 3745, *J. Teruya* v. *B. Harris et al.* Consent decree for plaintiff July 28, 1928.

1,561,836, N. Q. Donnelly, Apron, D. C. R. I. (Providence), Doc. 298, *Donnelly Garment Co.* v. *H. Siemon* (*Wellmade Mfg. Co.*). Injunction July 30, 1928. Same, filed June 26, 1928, D. C., N. D. Ill., E. Div., Doc. 8411, *Donnelly Garment Co.* v. *Congress Mfg. Co. et al.*

1,570,298, A. H. Fisher, Method and means for repairing tire casings, D. C. Nebr. (Omaha), Doc. E 841, *Kes Co., Inc.*, v. *H. M. Watson* (*The Star Sales Co.*). Claims 2, 3, and 4 infringed July 28, 1928.

1,573,415. (See 1,012,820.)

1,589,691, S. J. Herman, Boiler cleaner, D. C. Del. (Wilmington), Doc. E 614, *Diamond Power Specialty Corp.* v. *The Vulcan Soot Cleaner Co.* Dismissed July 14, 1928.

1,589,801, Gold & Russell, Flexible pipe connection, filed June 9, 1928, D. C., N. D. Ill., E. Div., Doc. 8353, *E. H. Gold et al.* v. *Barco Mfg. Co.*

1,593,339. (See 1,040,349.)

1,603,207. T. Huston, Paper bag and seal, filed Aug. 7, 1928, D. C., N. D. Ala. (Birmingham), Doc. 630, *T. Huston Peanut Co.* v. *Kelley Products Co., Inc., et al.*

1,603,246. L. Roche, Method and apparatus for attaching separable fastener tapes, filed July 20, 1928, D. C., E. D. N. Y., Doc. 3771, *Hook & Eye Devices Corp.* v. *Belfit Brassiere Co., Inc.*

1,618,767. R. R. Machlett, Manufacture of luminous electrical discharge tubes, filed Aug. 6, 1928, D. C., N. D. Ohio, E. Div., Doc. 2627, *Rainbow Light, Inc.*, v. *C. Neon Bellows Corp.*

1,622,994. H. Culp, Steamboat construction, filed July 27, 1928, D. C., N. D. Ohio, E. Div., Doc. 2622, *H. Culp* v. *The Docks & Navigation Co. et al.*

1,628,591. P. Harris, Wig for dolls, filed July 17, 1928, D. C., E. D. N. Y., Doc. 3763, *Mutual Hair Goods Co., Inc., et al.* v. *H. Rosen.* Doc. 3764, *Mutual Hair Goods Co., Inc., et al.* v. *L. Reisler et al.* Doc. 3765, *Mutual Hair Goods Co., Inc., et al.* v. *Faber Bros., Inc.* Doc. 3766, *Mutual Hair Goods Co., Inc., et al.* v. *J. Teruya.* Doc. 3767, *Mutual Hair Goods Co., Inc., et al.* v. *E. Zaitchek.* Doc. 3768, *Mutual Hair Goods Co., Inc., et al.* v. *C. Schwartz.* Doc. 3769, *Mutual Hair Goods Co., Inc., et al.* v. *J. Bergman.*

1,651,890. W. W. Hicks, Convection heater, filed Aug. 7, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2162–L, *W. W. Hicks* v. *Majestic Electric Appliance Co., Inc.*

1,670,893. S. P. Levenberg, Electrical system, filed July 23, 1928, D. C., E. D. N. Y., Doc. 3772, *The Levenberg Corp.* v. *Powrad, Inc., et al.*

1,679,120. O. Fox, Water heater, filed Aug. 8, 1928, D. C., N. D. Ohio, E. Div., Doc. 2628, *The Bryant Heater & Mfg. Co.* v. *B-Line Boiler Co.*

Des. 71,767. F. Schmidt, Goblet, filed July 26, 1928, D. C., E. D. N. Y., Doc. 3774, *F. C. Reimer Co., Inc.*, v. *J. Hirsch et al.* (*Hirsch-Malgood Co.*).

Des. 74,004. Faith & Klasstorner, Automobile radiator-cap ornament, filed June 19, 1928, D. C., N. D. Ill., E. Div., Doc. 8368, *Faith Mfg. Co.* v. *F. Marks et al.*

Des. 74,384. E. E. Nahon, Chair, D. C., S. D. N. Y., Doc. E 45/400, *E. E. Nahon et al.* v. *H. Herman Furniture Co.* Patent held valid and infringed Aug. 13, 1928.

Des. 74,570. E. Klopfstein, Lamp bracket, filed June 1, 1928, D. C., N. D. Ill., E. Div., Doc. 8297, *Woodruff & Edwards Co.* v. *Acme Lamp Shade Co.* Doc. 8298, *Woodruff & Edwards Co.* v. *Ideal Art Metal Co. et al.* Doc. 8299, *Woodruff & Edwards Co.* v. *Famous Specialty Corp.*

Des. 75,568. A. R. Kanne, Lamp-supporting bracket, filed Aug. 13, 1928, D. C., S. D. N. Y., Doc. E 46/140, *Kanne & Bessant, Inc.*, v. *T. L. Hayes* (*Tessie Lou Studios*) *et al.*

Re. 14,777. J. L. Kraft, Process of sterilizing cheese and an improved product produced thereby; 1,323,869, 1,400,171, same, Process for treating cheese; 1,389,577, Carpenter & Eldredge, Cheese and process for sterilizing same; 1,389,095, same, Swiss cheese and method of sterilizing; Re. 15,648, E. E. Eldredge, Process for treating cheese, filed June 29, 1928, D. C., N. D. Ill., E. Div., Doc. 8415, *Kraft-Phenix Cheese Co.* v. *National Cheese Co. et al.*

Re. 15,648. (See Re. 14,777.)

Re. 17,034. L. Bloch, Four-way diverter valve, filed Aug. 10, 1928, D. C., N. D. Ohio, E. Div., Doc. 2634, *The Republic Brass Co.* v. *The Central Brass Mfg. Co.*

Disclaimers.

1,674,745.—*Carl T. Schunk*, Lakewood, Ohio. METHOD OF FORMING DRY-BATTERY STRUCTURES. Patent dated June 26, 1928. Disclaimer filed September 24, 1928, by the patentee, assignee *The Peerless Paper Box Manufacturing Company*, concurring.

Hereby enters this disclaimer to all of the claims of said patent, to wit:

Claims 1 to 11, inclusive.

1,460,716.—*Butler P. Greer*, San Francisco, Calif. BOOK-FORM SAVINGS BANK. Patent dated July 3, 1923. Disclaimer filed September 11, 1928, by the patentee.

Hereby enters this disclaimer to that part of the claims in said specification only in so far as the claims may be construed to be of broader scope than claim 6, which is in the following words, to wit:

"1. A book-form savings bank comprising a case simulating the proportions of a book, and an envelope covering simulating the binding of the book detachably interlocked with said case.

"2. A savings bank comprising a case formed with slots in the sides thereof, and an envelope covering for said case having tongues disposed thereon to be engaged in said slots whereby the covering is retained on the case.

"3. A book-form savings bank comprising a case simulating the proportions of a book, an envelope covering on said case simulating the binding of a book and detachably interlocked with said case, and metallic plates disposed on the corners of said coverings.

"4. A book-form savings bank comprising a case simulating the proportions of a book, a covering on said case simulating the binding of a book, and metallic plates disposed on the covering at the ends of the back.

"5. A book-form savings bank comprising a case formed with slots in the sides thereof, a covering for the said case simulating the binding of a book, and stiffening boards for said cover formed with tongues for engaging said slots."

"7. A book-form savings bank comprising a case formed of hinged portions, one portion being formed with slots therein on the hinge line and the other portion being formed with two sets of tongues extending through said slots, one set of tongues being bent away from the bottom of one of the portions and the other set of tongues being bent toward said bottom, whereby the portions are pivotally connected on the hinge line."

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 9, 1928.

[VOL. 375. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 264,184. OLD BEN COAL CORPORATION, Chicago, Ill. Filed Apr. 2, 1928.



For Coal:
Claims use since Mar. 20, 1909.

Ser. No. 268,843. BREWERTON COAL CO., Chicago, Ill. Filed June 29, 1928.

SOUTHERN GEM

For Coal.
Claims use since 1909.

Ser. No. 270,319. THE CLEVELAND-CLIFFS IRON COMPANY, Cleveland, Ohio. Filed July 30, 1928.

Winterking

For Coal.
Claims use since on or about Oct. 1, 1920.

Ser. No. 270,320. THE CLEVELAND-CLIFFS IRON COMPANY, Cleveland, Ohio. Filed July 30, 1928.

NORTHERN STAR

For Coal.
Claims use since on or about Apr. 1, 1928.

CLASS 2.

Receptacles.

Ser. No. 262,720. LE-MUL MFG. CO., St. Paul, Minn. Filed Mar. 7, 1928.

REJUVENATOR

For Containers Adapted to Store Pop Corn, Beans, Corn, Fruit and Other Edibles.
Claims use since October, 1926.

Ser. No. 270,305. SEALED CONTAINERS CORPORATION, New York, N. Y. Filed July 28, 1928.

SEALCONE

For Paper Bottles for Dispensing Milk, Cream, Ice Cream, and the Like.
Claims use since May, 1928.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 254,314. WARD MANUFACTURING CO., West Plains, Mo. Filed Sept. 2, 1927.



All wording is disclaimed apart from the mark shown.
For Traveling Bags, Bill Folds, and Kit Bags.
Claims use since Nov. 1, 1926.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 243,644. SAMUEL CUMMINS, New York, N. Y. Filed Feb. 1, 1927.



Exclusive use of the word "Soap" is disclaimed apart from the mark shown on the drawing.
For Soap.
Claims use since June 15, 1925.

Ser. No. 266,619. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed May 18, 1928. Under section 5b of the act of 1905, as amended in 1920.

ROKEACH

For Aluminum Cleanser, Scouring Powder, Steel Wool, and Soap.
Claims use since 1891.

Ser. No. 267,718. PLOMAR PRODUCTS CORP., Pittsburgh, Pa. Filed June 8, 1928.

Queen Castle

For Olive-Oil Soap and Shaving Cream in the Nature of Soap to be Used Before Shaving.
Claims use since Apr. 1, 1928.

Ser. No. 268,477. AIX-OLEIN CO., INC., Brooklyn, N. Y. Filed June 22, 1928.

OLEOPHINE SOAP OIL

The words "Soap Oil" appearing on the drawing are disclaimed apart from the mark shown.
For Soaps, Soap Containing Detergents, and Soap Containing Grease-Solvent Compositions, All in Liquid Form, for General Cleansing and Scouring Purposes.
Claims use since about Aug. 1, 1921.

Ser. No. 269,289. SAMUEL HERMANN, doing business as Perfex Products Co., Philadelphia, Pa. Filed July 9, 1928.

PERFEX

For Quick-Cleaning Fluid.
Claims use since June 5, 1928.

Ser. No. 269,571. NEWTON E. BAKER, doing business as Hollywood Color Company, Los Angeles, Calif. Filed July 14, 1928.



Disclaimer is herewith expressly made to all wording on the drawing except the words "Hollywood Star" and the name of applicant "Hollywood Color Company."
For Shoe and Leather Dressing.
Claims use since June 28, 1928.

Ser. No. 269,998. TRUST OIL COMPANY, Perth Amboy, N. J. Filed July 21, 1928.

BELTOSAN D. R.

For Belt Dressing.
Claims use since Mar. 1, 1928.

Ser. No. 270,999. JAMES E. MCGUIRE, Camden, N. J. Filed Aug. 14, 1928.



The words "Auto Top Dressing" not being claimed apart from the other features of the mark.
For Automobile Top Dressing.
Claims use since Feb. 28, 1928.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 242,098. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Dec. 29, 1926.



All wording appearing on the drawing with the exception of applicant's name and "Shaveasy" are disclaimed apart from the mark as shown in the drawing. The drawing is lined to indicate the colors blue and gold.
For Lotions, Creams, and Powders All for Use After Shaving.
Claims use since March, 1926.

Ser. No. 254,918. KEYSTONE LABORATORIES, Memphis, Tenn. Filed Sept. 19, 1927.

Teezem

For Face Powder.
Claims use since June 15, 1925.

Ser. No. 256,807. LLOYD O. BRIGHTFIELD, Baltimore, Md., doing business as "The Soda-Dent Company," assignor to The Soda-Dent Company, Baltimore, Md., a Body Corporate. Filed Oct. 31, 1927.

SODA-DENT

The word "Soda" is disclaimed apart from the mark shown in the drawing.
For Tooth Paste or Dentifrice.
Claims use since July 1, 1927.

Ser. No. 260,161. MILTON CAHN COMPANY, INC., New York, N. Y. Filed Jan. 16, 1928.

LAVION-ELITE

For Face Powder, Talcum Powder, Rouges, Lip Sticks, Face Cream, Skin Lotions, and Perfumes.
Claims use since July, 1927.

Ser. No. 263,459. CHEMISCHE FABRIK STOCKHAUSEN & CIE., Krefeld, Germany. Filed Mar. 20, 1928.

Praestabit

For Dyes and Dyestuffs, Chemical Products for Making Dyeings and Colorings Fast to Rubbing, Mordants, Compositions for Waterproofing Dyes and Colors and Yarns and Fabrics, Bleaching Compositions, Sizing and Finishing Materials for Paper and Textile Fabrics, and Starch Preparations for Sizing and Similar Purposes.
Claims use since about March, 1923.

Ser. No. 263,664. THE OMEGA CHEMICAL COMPANY, New York, N. Y. Filed Mar. 23, 1928.



The facsimile signature appearing in the mark is that of Higinio Espinosa, the representation of the label and all the wording appearing on drawing with the exception of the words "Omega," "Higinio Espinosa," and "The Omega Chemical Co." being disclaimed apart from the mark shown on the drawing. The drawing is lined to

indicate colors green and red which are claimed as features of the mark.

For Preparation for the Treatment of Rheumatism, Lumbago, Neuralgia, Swellings, Inflammation, Common Sore Throat, Cold in Chest, Tender Feet, Sprains, Bruises, and Similar Ailments.

Claims use since May, 1924.

Ser. No. 263,665. THE OMEGA CHEMICAL COMPANY, New York, N. Y. Filed Mar. 23, 1928.



The facsimile signature appearing on the mark is that of Higinio Espinosa, the representation of the label and all wording with the exception of the words "Omega," "Higinio Espinosa," and "The Omega Chemical Co." being disclaimed apart from the mark shown on the drawing. The drawing is lined to indicate the colors green and red which are claimed as features of the mark.

For Preparation for the Treatment of Rheumatism, Lumbago, Neuralgia, Swellings, Inflammation, Common Sore Throat, Cold in Chest, Tender Feet, Sprains, Bruises, and Similar Ailments.

Claims use since August, 1920.

Ser. No. 266,501. EDWARD WESLEY & COMPANY, Cincinnati, Ohio. Filed May 16, 1928.



No right of registration is claimed for the representation of the carton as distinguished from the arrangement or for the matter in small type on the face and sides thereof, the printed matter except the words "Hair Groom" and the corporate names "Wyeth Chemical Co., Inc." and "Edward Wesley & Co." being disclaimed. Applicant is the owner of registration No. 169,617. The drawing is lined for the color brown. The pictures are fanciful.

For Hair-Combing Liquid.

Claims use since Nov. 20, 1922.

Ser. No. 266,786. H. TH. BÖHME A. G., Chemnitz, Germany. Filed May 22, 1928.

Oxycarnol

For Chemical Dye Aids—Namely, Moistening Preparations, Thread and Fibre Protecting Preparations, Thread and Fibre Penetrating Preparations, Smoothing Preparations, Tanning Preparations, and Preparations for Dissolving Dye Stuffs.

Claims use since Apr. 15, 1927.

Ser. No. 267,256. HOUBIGANT, INC., New York, N. Y. Filed May 31, 1928.

RUBA

For Manicure Preparations—Namely, Nail Polish, Nail Paste, and Nail Powder, Nail Polish in Tablet Form, Nail Enamel, and Solvent for Removing Enamel.

Claims use since Mar. 1, 1917.

Ser. No. 268,380. NAAMLOOZE VENNOOTSCHAP INTERNATIONAL PERFUMERY COMPANY, Amsterdam, Netherlands. Filed June 20, 1928.

FÉ

For Eau de Cologne, Bath Salts, Perfumery; Lotions for the Hair, Skin, and Mouth; Face, Toilet, and Talcum Powders; Skin and Beauty Creams, Brilliantine, Hair Paints, Preparations for Beautifying and Preserving the Human Hair, Dentifrices, Sachets, Smelling Salts, Toilet Water, Nail Bleach, and Liquid Cuticle Remover.

Claims use since May, 1926.

Ser. No. 268,426. COLLINS MEDICINE COMPANY, Collins, Miss. Filed June 21, 1928.



The portrait is a picture of Henry Redmond.

For Herb-Root Composition to be Used as a Preparation for Diseases of the Kidney and Bladder, Gravel, Backache, and Certain Rheumatic Affections.

Claims use since May 28, 1928.

Ser. No. 268,494. HABERLAND MANUFACTURING COMPANY, Allwood, N. J. Filed June 22, 1928.

SPEEDEE

For Chemical Preparation for Removing Wall Paper.

Claims use since about May 7, 1928.

Ser. No. 268,495. HABERLAND MANUFACTURING COMPANY, Allwood, N. J. Filed June 22, 1928.



The drawing as presented is lined to indicate a blue circle with the word "Hamaco" therein surrounded by a wide red border with the words "Speedee Wall Paper Remover" therein. No claim is made to the words "Wall Paper Remover" aside from the mark as shown.

For Chemical Preparation for Removing Wall Paper.

Claims use since about May 7, 1928.

Ser. No. 268,537. THE J. B. FORD COMPANY, Wyandotte, Mich. Filed June 23, 1928.

Wyandotte



For Solvent Clarifier for Use in the Cleaning Trade.

Claims use since Jan. 1, 1928.

Ser. No. 268,619. THE MARTIN DENNIS COMPANY, Newark, N. J. Filed June 25, 1928.

VITALENE

For Cod-Liver Oil for Mixing with Chicken and Cattle Feed.

Claims use since April 28, 1928.

Ser. No. 269,189. CHARLES ARTHUR HERRON, doing business as The Stomaid Laboratories, Wichita, Kans. Filed July 6, 1928.

STOMAID

For Stomaid, a Stomach Preparation.

Claims use since July 1, 1923.

Ser. No. 269,211. ROCCO TRILLO, doing business as Monaderb Company, North Merchantville, N. J. Filed July 6, 1928.

Monaderb TEA
TRADE MARK

The words "Trade-Mark" and "Tea" are disclaimed except as shown.

For Mixture of Dried and Coarsely-Ground Roots, Herbs, and Barks of Medicinal Value for Use in Making a Tonic and Laxative Tea.

Claims use since July 5, 1928.

Ser. No. 269,598. ALEXANDER NAZAROFF, doing business as Colit Laboratories, New York, N. Y. Filed July 14, 1928.

COLIT LABORATORIES
COLIT
COLIT

For Liniments for Relieving the Pains of Muscular Rheumatism, Lumbago, Gout, Sciatica, Neuritis, Stiff Neck, Sore Throat Caused by Congestion Due to Exposure, Fatigued Sore Muscles, Tired Aching Feet, Stiff Joints, Strained Ligiments, Sprains, and Bruises.
Claims use since July 10, 1928.

Ser. No. 269,696. LEO W. STALL, also doing business as H. E. B. Laboratory, Buffalo, N. Y. Filed July 16, 1928.

H·E·B.

For Cough Medicine.
Claims use since May 1, 1928.

Ser. No. 269,848. LANMAN & KEMP, INC., New York, N. Y. Filed July 19, 1928. Under 10-year proviso.



The portrait of the woman being fanciful.
For Liquid Tonic for Preserving and Beautifying the Hair.
Claims use since 1864.

Ser. No. 269,977. The ODORONO COMPANY, Cincinnati, Ohio. Filed July 21, 1928.



The lining on the drawing is used for shading purposes only.
For Deodorant Powder.
Claims use since June 1, 1928.

Ser. No. 269,978. THE ODORONO COMPANY, Cincinnati, Ohio. Filed July 21, 1928.



The lining shown on the drawing is used for shading purposes only.
For Depilatory.
Claims use since June 1, 1928.

Ser. No. 270,142. ODOR-NOX CHEMICAL CO., Chicago, Ill. Filed July 25, 1928.



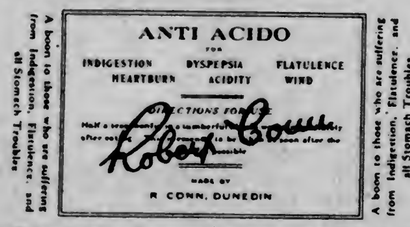
For Body Deodorant.
Claims use since July 1, 1928.

Ser. No. 270,521. MOE SPIEGEL, Middletown, N. Y. Filed Aug. 2, 1928.

CROPAID FARMER'S FRIEND A QUADRUPLE DUTY SPRAY CROPAID

No registration rights are claimed for the words "A Quadruple Duty Spray" apart from the mark as shown in the drawing.
For Insecticide and Fungicide.
Claims use since June 1, 1928.

Ser. No. 270,668. ROBERT CONN, Dunedin, New Zealand. Filed Aug. 6, 1928.



All wording in the drawing is disclaimed with the exception of the signature "Robert Conn" and the name "R. Conn."
For Medicine for Human Use for the Treatment of Indigestion, Dyspepsia, Flatulence, Heartburn, Acidity, Wind, and all Stomach Troubles.
Claims use since May 1, 1924.

Ser. No. 270,862. B. M. SCHULENBERG, doing business as Swiss-Snow Laboratories, Chicago, Ill. Filed Aug. 10, 1928.

Swiss-Snow

For Skin Cleanser and Tissue Builder in the Nature of a Cream, Lotion, and Ointment.
Claims use since Apr. 15, 1928.

Ser. No. 270,956. THE CUTTER LABORATORY, Berkeley, Calif. Filed Aug. 13, 1928.

Coliron

For Colloidal Iron Cacodylate.
Claims use since Apr. 15, 1928.

Ser. No. 270,960. THE DRACKETT CHEMICAL COMPANY, Cincinnati, Ohio. Filed Aug. 13, 1928.

D

For Epsom Salt.
Claims use since Aug. 3, 1928.

Ser. No. 271,081. PITMAN-MOORE COMPANY, Indianapolis, Ind. Filed Aug. 15, 1928.

MURIATOGEN

For Preparation for the Treatment of Achylia Gastrica, Achlorhydia, and Hypoacidity.
Claims use since May 21, 1928.

Ser. No. 271,088. J. SCHANZENBACH & CO., INC., New York, N. Y. Filed Aug. 15, 1928.

PINODINE

For Hot-Oil Scalp Treatment.
Claims use since Aug. 7, 1928.

Ser. No. 271,141. NOKAL CO., Cleveland, Ohio. Filed Aug. 16, 1928.

NOKAL

The drawing is lined for red.
For Remedy for the Treatment of Corns and Callouses.
Claims use since Aug. 6, 1928.

Ser. No. 271,159. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Aug. 17, 1928.

No. 28
CASE HARDENING COMPOUND

The words "Case Hardening Compound" are disclaimed apart from the mark shown.
For Case-Hardening Materials.
Claims use since Aug. 1, 1928.

Ser. No. 271,160. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Aug. 17, 1928.

No. 510
CASE HARDENING COMPOUND

The words "Case Hardening Compound" are disclaimed apart from the mark as shown.
For Case-Hardening Materials.
Claims use since Aug. 1, 1928.

Ser. No. 271,162. MAURICE H. AUERBACH, also doing business as Auerbach Chemical Company, San Francisco, Calif. Filed Aug. 17, 1928.

STEROFECTANT

For Sterilizers, Deodorizers, Disinfectants, Germicides, and Fungicides.
Claims use since Mar. 2, 1925.

Ser. No. 271,168. COTY, INC., Wilmington, Del., and New York, N. Y. Filed Aug. 17, 1928.

POTONIQUE

For Liquid Preparation for the Improvement and Beautification of the Skin.
Claims use since Aug. 9, 1928.

Ser. No. 271,192. METAL & THERMIT CORPORATION, Carteret, N. J. Filed Aug. 17, 1928.

M and T

For Sodium Antimonate, Thermalin, and Tin Oxide.
Claims use since Jan. 1, 1928, on sodium antimonate and thermalin, and on tin oxide since Feb. 3, 1928.

Ser. No. 271,516. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Aug. 24, 1928.

Isolac

For Debuffering Milk Modifier.
Claims use since Jan. 18, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 271,418. AMTORG TRADING CORPORATION, New York, N. Y. Filed Aug. 23, 1928.

EXTRA

For Matches.
Claims use since Aug. 17, 1928.

CLASS 12.

Construction Materials.

Ser. No. 235,276. JOHN ROE & FRED C. CAMPBELL, Seattle, Wash. Filed July 28, 1926.

ROE-CAM-ITE
ROE-CAM-ITE TRADE MARK

Applicant disclaims any right to the words "Trade-Mark" appearing on the specimens.
For Construction Materials for Floors and Walls Consisting of Plaste Compositions.
Claims use since May 18, 1926.

Ser. No. 269,706. AMERICAN EXPORT DOOR CORPORATION, Tacoma, Wash. Filed July 17, 1928.

AMDOREX

For Wooden Doors.
Claims use since Apr. 30, 1927.

Ser. No. 270,539. THE FLINTKOTE COMPANY, Boston, Mass. Filed Aug. 3, 1928.

DUOTONE BROWN

The word "Brown" is disclaimed apart from the mark shown.
For Asphaltic Composition Roofing Shingles.
Claims use since on or about Sept. 1, 1925.

Ser. No. 270,817. THE ARROW BRICK COMPANY, Knoxville, Tenn. Filed Aug. 10, 1928.

HANDMADE

No claim is made to the word "Handmade" apart from the mark shown.
For Building Brick.
Claims use since about July 15, 1928.

Ser. No. 270,873. THE BARRETT COMPANY, New York, N. Y. Filed Aug. 11, 1928.

RE-TREAD

For Bituminous Materials Used for the Surfacing of Roads.
Claims use since April, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 269,633. CALUMET FOUNDRY & MACHINE COMPANY, East Chicago, Ind. Filed July 16, 1928.

CF

For Metal Castings, Particularly Castings of Gray Iron, Malleable Iron, Alloy Iron, Steel, Semisteel, Brass, and Aluminum.
Claims use since June 8, 1928.

CLASS 15.

Oils and Greases.

Ser. No. 265,860. SHERWOOD BROS. INC., Baltimore, Md. Filed May 3, 1928.

WHITE CIRCLE

For Gasoline, Lubricating Oils, and Lubricating Greases.
Claims use since Sept. 19, 1912.

Ser. No. 268,116. HENRY J. SIEMER, doing business as Merchants Oil Co., Cincinnati, Ohio. Filed June 15, 1928.

Elgoil

For Lubricating Oil.
Claims use since Apr. 1, 1928.

Ser. No. 269,000. PERFECTO MANUFACTURING CO., Chicago, Ill. Filed July 2, 1928.

PERFECTO

For Penetrating Oil.
Claims use since June 1, 1928.

Ser. No. 269,212. THE VICKERS PETROLEUM COMPANY, Wichita, Kans. Filed July 6, 1928.

RATIO

For Gasoline.
Claims use since June 28, 1928.

Ser. No. 269,213. THE VICKERS PETROLEUM COMPANY, Wichita, Kans. Filed July 6, 1928.

HIGHER RATIO

For Gasoline.
Claims use since June 28, 1928.

Ser. No. 269,550. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed July 13, 1928.

The Sun Never Sets on Richfield

For Petroleum Products—Namely, Kerosene, Gasoline, and Lubricants.
Claims use since Apr. 21, 1928.

Ser. No. 269,785. HUMBLE OIL & REFINING COMPANY, Houston, Tex. Filed July 18, 1928.

FLASHLITE

For Gasoline and Motor-Fuel Oils.
Claims use since 1913.

Ser. No. 269,786. HUMBLE OIL & REFINING COMPANY, Houston, Tex. Filed July 18, 1928.

FLASHLIKE

For Gasoline and Motor-Fuel Oils.
Claims use since May 29, 1928.

Ser. No. 270,084. JOSEPH W. KANE, doing business as Easy Oil Company, Pittsburgh, Pa. Filed July 24, 1928.

PENETRATING LUBRICANT

EASY

The words "Penetrating Lubricant" and "Easy" are disclaimed apart from the mark shown.
For Lubricating Oils.
Claims use since on or about Apr. 1, 1928.

Ser. No. 271,044. GRAYBURG OIL COMPANY, San Antonio, Tex. Filed Aug. 15, 1928.

Grayco

For Illuminating Oils, Fuel Oils, Lubricating Oils and Greases, Distillate, and Gasoline.
Claims use since Oct. 14, 1919.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 229,158. CHICAGO PAINT WORKS, Chicago, Ill. Filed Mar. 25, 1926.

WHITE SEAL
HOUSE PAINT

Applicant claims the words "House Paint" only when associated with white seal.
For Ready-Mixed Outside Paint for Buildings.
Claims use since September, 1912.

Ser. No. 258,494. REPUBLIC PAINT & VARNISH WORKS, Chicago, Ill. Filed Dec. 5, 1927.

MULTI-SPAR

The word "Spar" is disclaimed apart from the mark shown in the drawing.
For Varnishes, Varnish Stains, and Paint Enamels.
Claims use since Nov. 10, 1927.

Ser. No. 265,399. PAINT ENGINEERS, INC., Chicago, Ill. Filed Apr. 25, 1928.



No claim is made to the words "Systems of Finishing Walls" apart from the mark as shown.
For Ready-Mixed Paints, Lacquers, Varnish, Paint Enamel, and Waterproof Paints.
Claims use since Jan. 11, 1928.

Ser. No. 265,576. SAPOLIN CO. INC., New York, N. Y. Filed Apr. 28, 1928.



No claim is made to the exclusive right to the use of any of the words appearing in the drawing with the exception of the words "Sapolin" and its corporate name "Sapolin Co. Inc." nor exclusive right to the use of the rectangular borders around the three panels shown in the drawing. The colors black on the body and gold in the design are claimed as features of the trade-mark.
For Gold Glaze.
Claims use since January, 1912.

Ser. No. 265,577. SAPOLIN CO. INC., New York, N. Y Filed Apr. 28, 1928.



Applicant makes no claim to the exclusive use of any of the words appearing in the drawing with the exception of the words "Sapolin" and its corporate name "Sapolin Co. Inc.," and makes no claim to exclusive right to the use of the rectangular borders around the three panels shown in the drawing. The colors red on the body and silver in the design are claimed as features of the mark.
For Aluminum Glaze.
Claims use since January, 1912.

Ser. No. 269,199. NEWNAMEL INC., doing business as Newnamel Manufacturing Co., New Orleans, La. Filed July 6, 1928.

NEWNAMEL

For Cleaning Preparation for Painted Surfaces for Removing Foreign Substances and Accumulations and Restoring Lustre to the Paint.
Claims use since May 7, 1911.

Ser. No. 270,701. GENERAL RUB-ROS COMPANY, Hialeah, Fla. Filed Aug. 7, 1928.

Rub-Ros

For Paints, Dry or Paste.
Claims use since Jan. 1, 1928.

Ser. No. 270,740. ELLIOTT VARNISH CO., Chicago, Ill. Filed Aug. 8, 1928.

Tri-Spar

No claim is made to the word "Spar" apart from the mark shown.
For Varnishes and Paint Enamels.
Claims use since about June, 1923.

Ser. No. 270,741. ELLIOTT VARNISH CO., Chicago, Ill. Filed Aug. 8, 1928.

Acro-Lac

No claim is made to the word "Lac" apart from the mark shown.
For Varnishes, Varnish Stains, and Paint Enamels.
Claims use since about November, 1927.

Ser. No. 270,957. DEVOE & RAYNOLDS CO., INC., New York, N. Y. Filed Aug. 13, 1928.

ARTLAC

For Lacquers, Paint Enamels, Varnishes, and Mixed Paints.
Claims use since May 10, 1928.

Ser. No. 270,958. DEVOE & RAYNOLDS CO., INC., New York, N. Y. Filed Aug. 13, 1928.

DEVOE ARTLAC

For Lacquers, Enamels, Varnishes and Mixed Paints.
Claims use since May 15, 1928.

Ser. No. 271,107. AMERICAN CEMENT PAINT CO., Rossville, Ga. Filed Aug. 16, 1928.

Zemco-lite
TRADE MARK

No claim is made for the words "Trade-Mark."
For Dry Paint.
Claims use since June, 1916.

Ser. No. 271,457. SHEFFIELD BRONZE POWDER CO., Cleveland, Ohio. Filed Aug. 23, 1928.



For Bronze Powder.
Claims use since September, 1927.

CLASS 17.

Tobacco Products.

Ser. No. 270,782. WILLIE BRUNNER RICHARDSON, Los Angeles, Cal'f. Filed Aug. 8, 1928.

El Ricardo

For Cigars, Cigarettes, Scrap Chewing Tobacco, and Scrap Smoking Tobacco.
Claims use since Sept. 1, 1922.

Ser. No. 271,575. JOHN SINCLAIR LIMITED, Newcastle-on-Tyne, England. Filed Aug. 25, 1928.

JOLLY BOAT

For Smoking Tobacco, Cigarettes, and Cigars.
Claims use since July 15, 1895.

Ser. No. 271,747. JOHN FOEGE, Jr., doing business as John Foege & Son, Richmond, Va. Filed Aug. 30, 1928.

No. 190

Sold on its Merit

The phrase "Sold on Its Merit" is disclaimed.
For Cigars and Cigarettes.
Claims use since Apr. 1, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 265,435. HUNT & MOORE, INC., New Haven, Conn. Filed Apr. 26, 1928.

Eye

For Safety Rear-End Reflectors for Motor Vehicles.
Claims use since on or about Mar. 24, 1928.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 209,429. PREMIER GRAND PIANO CORPORATION, New York, N. Y. Filed Feb. 11, 1925.

PREMIER RADIO

Exclusive use of the word "Radio" per se when standing alone and apart from other features of the mark is disclaimed.

For Radio Receiving Sets Adapted for Installation in, or for Combination or Association with Pianos and Grand Pianos; Radio Receiving Sets Having as Cabinets or Enclosures Therefor Parts of Pianos.

Claims use since June 9, 1924.

Ser. No. 240,915. JOHNSON MOTOR PRODUCTS CO. INC., Chicago, Ill. Filed Dec. 3, 1926.

JOHNSON MOTOR PRODUCTS CHICAGO

No exclusive right is claimed in the words "Motor Products" or "Chicago," apart from their use in connection with the other features of the mark.

For Battery Chargers.
Claims use since February, 1926.

Ser. No. 262,645. BLAKE MANUFACTURING CO., Springfield, Mass. Filed Mar. 6, 1928.

SUN-LIGHT

For Flash Lights.
Claims use since Sept. 15, 1927.

Ser. No. 267,291. THE BEARDSLEY & WOLCOTT MFG. CO., Hartford, Conn. Filed June 1, 1928.

TORRID

For Electric Curling Irons, Electric Cigar Lighters, Electric Waffle Irons, Electric Table Stoves, Electric Percolators, Electric Candle Sets, Electric Toasters, Electric Table Grills, Electric Bottle Warmers, Electric Lamps, Electric Room Heaters, Electric Connecting Plugs, Electric Switches, Thermostatically-Controlled Electric Switches, and Electric Atomizers.

Claims use since April, 1925, on curling irons; since July, 1926, on cigar lighters; since April, 1925, on waffle irons and table stoves; since August, 1925, on percolators; since August, 1926, on candle sets and toasters; since April, 1925, on table grills; since July, 1926, on bottle warmers; since May, 1925, on lamps; since July, 1925, on room heaters; since April, 1927, on electric connecting plugs; since April, 1927, on switches and thermostatically-controlled switches; and since April, 1928, on atomizers.

Ser. No. 269,116. GUSTIN-BACON MANUFACTURING COMPANY, Kansas City, Mo. Filed July 5, 1928.

SUPER MASTENNA

For Radioantenna.
Claims use since June 1, 1928.

Ser. No. 269,281. THE ELECTARE COMPANY, Chicago, Ill. Filed July 9, 1928.

ELECTARE

For Electrical Combined Heater and Dryer for Drying the Hair, Hands, and Face and for Drying Small Articles of Wearing Apparal; Vacuum Cleaners, Electric Cream Whipping and Mixing Machines, and Electric Hot-Water Pots.
Claims use since August, 1927.

Ser. No. 269,462. CHAMPION RADIO WORKS, INC., Danvers, Mass. Filed July 12, 1928.

"TALK for THEMSELVES"

For Electron Tubes.
Claims use since January, 1927.

Ser. No. 270,428. KARL K. JENSEN, doing business as Jensen Radio Manufacturing Co., Oakland, Calif. Filed Aug. 1, 1928.

DYNAMIC

For Radio Loud Speakers.
Claims use since about Aug. 19, 1927.

Ser. No. 270,564. YALE ELECTRIC CORPORATION, Jersey City, N. J. Filed Aug. 3, 1928.

BOND

For Electric Lanterns, Electric Flash Lights, Electric Searchlights, Electric Candles, Flash-Light Batteries, Dry "A," "B," "C" Batteries for Radio, Wet "A," "B," "C" Batteries for Radio, Storage Batteries for Radio, Storage Batteries for Automobiles, Radio Power Units, "A," "B," and "C" Eliminators, Dry Cells for Radio, Dry Cells for Ignition, Dry Cells for Telephones, Dry Cells of Multiple Types, Radio Electron Tubes, Condensers, and Storage-Battery Charges.
Claims use since July 26, 1928.

Ser. No. 270,776. MOCCASIN BUSHING COMPANY, Chattanooga, Tenn. Filed Aug. 8, 1928.

Moccasin

The representation of the bushing is disclaimed apart from the other features of the mark shown in drawing.

For Self-Oiling Trolley Wheels, Self-Oiling or Oil-Distributing Bushings for Trolley Wheels and Trolley Harps.
Claims use since 1914.

Ser. No. 270,970. LYON BATTERY WORKS, Louisville, Ky. Filed Aug. 13, 1928.

FAR-GO

For Batteries and Battery Parts.
Claims use since September, 1925.

Ser. No. 271,199. THE RELIABLE STORAGE BATTERY & PLATES MFG. CO., Chicago, Ill. Filed Aug. 17, 1928.

Guard

For Electric Storage Batteries and Parts Thereof.
Claims use since Aug. 10, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 269,611. A. G. SPALDING & BROS., New York, N. Y. Filed July 14, 1928.



The mark consists of an annular band or streak of blue color on skate wheel or wheels. No claim is made for the representation of a skate wheel.

For Roller Skates.
Claims use since February, 1928.

Ser. No. 270,680. THE SPRINGFIELD LEATHER PRODUCTS COMPANY, Springfield, Ohio. Filed Aug. 6, 1928.

CAMEO

For Bridge Cases and Playing-Card Cases and Playing Cards.

Claims use since July 1, 1922, on playing cards and playing-card cases and since Mar. 1, 1923, on bridge cases.

Ser. No. 271,161. ARROW PLAYING CARD COMPANY, Chicago, Ill. Filed Aug. 17, 1928.

CAMEO

For Playing Cards.

Claims use since July 18, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 252,216. PAASCHE AIRBRUSH CO., Chicago, Ill. Filed July 18, 1927.



No claim is made to the exclusive use of the words "From Widest Spray to Finest Line," "Air Devices," and "Most Highly Perfected," nor to the representation of the goods on the drawing, except in the particular arrangement illustrated.

For Air Brushes, Parts of Air Brushes, and Air Cleaning and Conditioning Devices for Use with Spray Painting Equipment Together with Parts Thereof.

Claims use since Jan. 15, 1927.

Ser. No. 259,548. B. F. GUMP CO., Chicago, Ill. Filed Dec. 31, 1927.

MASTER

For Blending and Mixing Machines for Blending and Mixing All Kinds of Whole, Granulated, or Ground Grains, Cereals, Seed, Flour, Dry Chemicals, Minerals, or Any Dry Materials of a Nature That can be Handled Through Proportioning Feeders or Spiral Conveyors.

Claims use since on or about Nov. 1, 1921.

Ser. No. 259,549. B. F. GUMP CO., Chicago, Ill. Filed Dec. 31, 1927.

DRAVER MASTER DRIVE

No claim is made to the descriptive word "Drive" apart from the mark shown in the drawing.

For Blending and Mixing Machines for Blending and Mixing All Kinds of Whole, Granulated, or Ground Grains, Cereals, Seed, Flour, Dry Chemicals, Minerals, or Any Dry Materials of a Nature That can be Handled Through Proportioning Feeders or Spiral Conveyors.

Claims use since on or about Nov. 1, 1921.

Ser. No. 261,712. THE HOEPNER AUTOMATIC MACHINERY CORP., Buffalo, N. Y. Filed Feb. 15, 1928.



For Automatic Filling Machinery of the Weighing Type for Dry Materials.

Claims use since Oct. 15, 1927.

Ser. No. 268,368. GOULDS PUMPS, INCORPORATED, Seneca Falls, N. Y. Filed June 20, 1928.

PYRAMID

Applicant claims ownership of registered Trade-Mark No. 80,592, issued Jan. 10, 1911.

For Double-Action Piston Pumps.

Claims use since May 6, 1901.

Ser. No. 268,606. RUDOLPH BLANCKERTZ, doing business as Heintze & Blanckertz, Berlin, Germany. Filed June 25, 1928.

Tif

For Carving Tools for Use on Linoleum and Similar Material.

Claims use since October, 1926.

Ser. No. 270,164. THE AUTO-PRIME PUMP COMPANY, Cleveland, Ohio. Filed July 26, 1928.

NIAGARA'S  ONLY RIVAL

For Pumps and Mechanical Priming Apparatus for Pumps.

Claims use since Jan. 1, 1928.

Ser. No. 270,441. PENNSYLVANIA GASOLINE DRILL COMPANY, Philadelphia, Pa. Filed Aug. 1, 1928.

GASOLINE Somervell HAMMER

The trade-mark consists of the word "Somervell" in the form of a facsimile of the signature of Charles Stuart Somervell, deceased, the founder and first president of the Pennsylvania Gasoline Drill Co. No claim is made to the exclusive use of the words "Gasoline" and "Hammer" apart from the mark as shown.

For Rock Drills; Power Hammers for Breaking, Cutting, and Drilling Concrete and Stone and for Drilling, Cutting, and Removing Concrete, Cement, Macadam, and Wood Pavings; Hammer Rammers for Ramming Concrete, Rock Paving, and Macadam and Back-Fill Earth; Digging and Excavating Power Hammers, Stump Power Drills for the Placement of Explosive Charges for Stumps, and Power-Hammer Drills for Picking Hard Earths, All Said Tools Being Operated by a Reciprocating Piston Hammer Actuated by the Explosion of a Gasoline and Air Mixture and Operating on the Principle of an Internal-Combustion Engine.

Claims use since May 15, 1928.

Ser. No. 270,572. CHISHOLM-MOORE HOIST CORPORATION, Cleveland, Ohio. Filed Aug. 14, 1928.

BLUE BOY

For Differential Hoists.

Claims use since June 16, 1928.

Ser. No. 270,654. STANLEY W. SHAW, doing business as Shaw Manufacturing Company, Galesburg, Kans. Filed Aug. 6, 1928.

DU-ALL

For Tractors.

Claims use since Jan. 15, 1926.

Ser. No. 270,967. JOHN RUSSELL CUTLERY COMPANY, Turners Falls, Mass. Filed Aug. 13, 1928.

Pyro-Pearl

No claim is made to the exclusive right to the use of the word "Pearl" apart from the mark shown in the drawing.

For Household and Table Cutlery—to wit, Table-Knives and Forks, Spoons, Butter Spreaders, Pie Servers, Tea Knives, Carving Sets, Cheese Knives, Cake Knives, Fruit Knives, All Made of Base Metal.

Claims use since July 5, 1928.

Ser. No. 271,625. RUD. SACK, Leipzig, Germany. Filed Aug. 27, 1928.

Sack

For Agricultural Implements of All Kinds, Particularly Plows, Harrows, Rollers, Sawing Machines of All Kinds, Hoeing and Heaping Implements, and Potato-Picking Plows.

Claims use since 1900.

Ser. No. 271,699. JOHN RUSSELL CUTLERY COMPANY, Turners Falls, Mass. Filed Aug. 29, 1928.

RUSSITE

For Paring Knives and Grapefruit Knives Made of Base Metal.

Claims use since June 19, 1928.

Ser. No. 271,739. CHAIN BELT COMPANY, Milwaukee, Wis. Filed Aug. 30, 1928.



For Concrete Mixers.

Claims use since July 12, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 258,505. TELEVISION LIMITED, London, England. Filed Dec. 5, 1927.

NOCTOVISOR

For Apparatus for Use in Transmitting Views, Scenes, or Images to a Distance by Telegraphy.

Claims use since Feb. 26, 1927.

Ser. No. 269,192. LOUIS LEWYN, Los Angeles, Calif. Filed July 6, 1928.

RADIOGRAMS

For Motion Pictures.

Claims use since April, 1928.

Ser. No. 269,242. MAX KAPLAN, Port Chester, N. Y. Filed July 7, 1928.



The words "For Better Vision, Correct Glasses," and the representation of the pair of spectacles are disclaimed apart from the mark shown.

For Ophthalmic Mountings, Lenses, Telescopes, Binoculars, Opera and Field Glasses, and Microscopes.

Claims use since June, 1923.

Ser. No. 270,438. NORTON AND GREGORY, LIMITED, London, England. Filed Aug. 1, 1928.

DAZO

For Sensitized Photograph Materials—Namely, Papers, Cloths, Cards, Boards, and Cotton-Backed Paper.

Claims use since Oct. 28, 1927.

Ser. No. 271,176. FOX CASE CORPORATION, New York, N. Y. Filed Aug. 17, 1928.

MOVIETONEWS

For Motion Pictures in Which Pictorial Illustrations are Synchronized with Reproductions of Sounds.

Claims use since about July 14, 1928.

Ser. No. 271,670. THE VIKING TOOL AND MACHINE CO., INC., Brooklyn, N. Y. Filed Aug. 28, 1928.

VIKING

For Stop Counters, Plain Revolution Counters, Wire-Measuring Machines and Gauges.

Claims use since June 30, 1927.

Ser. No. 271,737. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Aug. 30, 1928.

B&L

For Ophthalmic Mountings and Parts Thereof.

Claims use since Dec. 10, 1923.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 260,053. FULMER & GIBBONS, Philadelphia, Pa. Filed Jan. 13, 1928.



For Bracelets, Brooches, Bar Pins, Scarf Pins, and Rings Made of Precious Metals.

Claims use since Feb. 1, 1913.

Ser. No. 269,667. BENJAMIN LEADER, Chicago, Ill. Filed July 16, 1928.



For Finger Rings, Ornamental Pins, Pendants, Bracelets, Sautoirs, and Similar Articles of Jewelry for Personal Wear, Not Including Watches.

Claims use since Dec. 1, 1927.

Ser. No. 269,995. TAYLOR & CO., INC., Newark, N. J. Filed July 21, 1928.



"14 K" is disclaimed apart from the mark shown in the drawing.

For Watch Bracelets, Lorgnette Chains, Finger Rings, Vest Sets, Necklaces, Pendants, Bracelets, Cuff Links, Bar Pins, Ornamental Hatpins, Brooches, Handy Pins, Scarf Pins, and Other Articles of Jewelry for Personal Wear, Not Including Watches.

Claims use since about June 29, 1928.

Ser. No. 271,029. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

Portia

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,030. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

Salome

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,031. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

Sabina

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,033. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

"The Colonel"

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,034. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

"The Commodore"

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,035. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

Delilah

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,036. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

Madame Pompadour

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,037. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

"The Major"

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,038. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

Penelope

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,039. GEMEX COMPANY, Newark N. J. Filed Aug. 15, 1928.

"The Pilot"

For Watch Bracelets.

Claims use since June 28, 1928.

Ser. No. 271,043. GEMEX COMPANY, Newark, N. J. Filed Aug. 15, 1928.

"The Captain"

For Watch Bracelets.

Claims use since June 28, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 266,535. HANFORD CHEMICAL COMPANY, Hanford, Calif. Filed May 17, 1928.

KLEAR-WIK

For Applicators for Eyeglass Cleaners.
Claims use since Mar. 20, 1928.

Ser. No. 270,405. WHITING-ADAMS COMPANY, Boston, Mass. Filed July 31, 1928.

METEOR

For Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about July 6, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 265,924. FREDERICK PARKER, doing business as Usatex Manufacturing Company, Houston, Tex. Filed May 4, 1928.

"OUR WORK IS YOUR REST"

For Mattresses.
Claims use since July 1, 1922.

Ser. No. 271,520. THE WESTERN SHADE CLOTH COMPANY, Chicago, Ill., Filed Aug. 24, 1928.

IVANHOE

For Window Shades.
Claims use since 1916.

Ser. No. 271,523. THE WESTERN SHADE CLOTH COMPANY, Chicago, Ill. Filed Aug. 24, 1928.

EXCELSIOR

For Window Shades and Shade Rollers.
Claims use since 1897.

Ser. No. 271,526. THE WESTERN SHADE CLOTH COMPANY, Chicago, Ill. Filed Aug. 24, 1928.

ANCHOR

For Window Shades and Shade Rollers.
Claims use since 1897.

Ser. No. 271,541. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Aug. 25, 1928.

KODACARTE

For Combined Card Table and Projection Screen.
Claims use since Aug. 1, 1928.

CLASS 33.

Glassware.

Ser. No. 270,545. GERMANOW-SIMON MACHINE CO., Rochester, N. Y. Filed Aug. 3, 1928.



No claim is made to a watch or watch crystal apart from the mark shown.
For Watch Crystals.
Claims use since September, 1918.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 270,067. APT NOVELTY CO., INC., New York, N. Y. Filed July 24, 1928.

GLORDID

For Cellulose-Acetate, Metal, Fabric, and Parchment Lamp Shades.
Claims use since February, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 264,499. MUTUAL STORES, INC., Oakland, Calif. Filed Apr. 7, 1928.

KLAMATH

For Toilet Paper and Paper Napkins.
Claims use since Jan. 5, 1928.

Ser. No. 267,519. THE THETA DRY STENCIL CORPORATION, New York, N. Y. Filed June 5, 1928.



For Dry Stencils.
Claims use since May 10, 1928.

Ser. No. 268,429. EAGLE PENCIL COMPANY, New York, N. Y. Filed June 21, 1928.



The mark consists of a circumferential red band applied to the article in connection with which it is used and positioned at some distance from one end thereof.
For Lead Pencils, Pencil-Point Protectors, Pencil Holders, Pencil Lengtheners, and Flat Pocket Pencils.
Claims use since about Dec. 1, 1905, as applied to lead pencils; since about July 1, 1906, as to pencil-point protectors; and since about July 1, 1911, as to pencil holders, pencil lengtheners, and flat pocket pencils.

Ser. No. 271,360. THE REYNOLDS & REYNOLDS COMPANY, Dayton, Ohio. Filed Aug. 21, 1928.

UNISET

For Manifold Forms.
Claims use since Feb. 15, 1928.

Ser. No. 271,380. FORT PITT TYPEWRITER COMPANY. Pittsburgh, Pa. Filed Aug. 22, 1928.

Printype

For Stencil Paper for Use in Duplicating Machines.
Claims use since July 16, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 268,263. THE AMERICAN EAGLE PUBLISHING CO., INC., Baltimore, Md., and New York, N. Y. Filed June 19, 1928.

American Business Magazine

For Periodical.
Claims use since on or about April, 1927.

Ser. No. 271,566. POPULAR AVIATION PUBLISHING COMPANY, Chicago, Ill. Filed Aug. 25, 1928.

POPULAR AVIATION

For Monthly Magazine.
Claims use since July, 1927.

Ser. No. 271,633. ST. MEINRAD ABBEY, St. Meinrad, Ind. Filed Aug. 28, 1928.

The Grail

For Monthly Magazine.
Claims use since May, 1919.

Ser. No. 271,664. STANDARD ACCIDENT INSURANCE COMPANY, Detroit, Mich. Filed Aug. 28, 1928.



No claim is made to the words "Standard," "Service," or "Satisfies" other than in connection shown in the drawing.
For Booklets.
Claims use since 1909.

Ser. No. 271,672. WESTERN STORIES PUBLISHING CORP., New York, N. Y. Filed Aug. 28, 1928.

Rangeland Stories

For Quarterly Publication.
Claims use since Aug. 15, 1928.

Ser. No. 271,682. CHRYSON'S INC., Los Angeles, Calif. Filed Aug. 29, 1928.

CHRYSON'S

For Greeting Cards, Wedding Invitations and Announcements.
Claims use since June 1, 1925.

Ser. No. 271,820. PRESS PUBLISHING COMPANY, New York, N. Y. Filed Aug. 31, 1928.

JOE JINKS

For Title for a Comic Strip Published Daily Except Sunday.
Claims use since Aug. 18, 1928.

CLASS 39.

Clothing.

Ser. No. 243,704. IDEAL BATH ROBE CO. INC., Brooklyn, N. Y. Filed Feb. 2, 1927.

BABIES IDEAL

No claim is made to the exclusive use of the word "Babies" apart from the mark shown on the drawing.
For Children's and Infants' Buntings and Sacques.
Claims use since about March, 1921.

Ser. No. 254,036. GUEST NECKWEAR COMPANY, INC. Rochester, N. Y. Filed Aug. 27, 1927.

ORLANO

For Silk Mufflers and Silk Neckties.
Claims use since Nov. 15, 1926.

Ser. No. 259,109. L. FEIBLEMAN & CO., INC., New Orleans, La. Filed Dec. 19, 1927.

Town Tailored

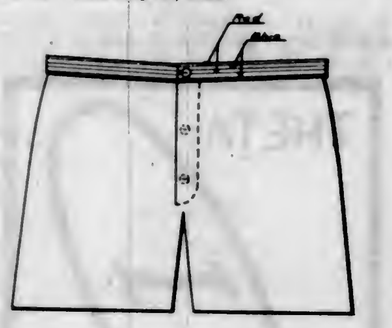
Exclusive right to the word "Tailored" apart from the rest of the mark shown in the drawing is disclaimed.
For Men's and Boys' Dress and Negligee Shirts and Women's and Misses' Coats, Suits, and Dresses.
Claims use since about Jan. 1, 1927.

Ser. No. 263,854. BURROWS & SANBORN, INCORPORATED, Lynn, Mass. Filed Mar. 28, 1928.

Fanchon

For Ladies' Hosiery.
Claims use since Sept. 1, 1927.

Ser. No. 266,354. CARMI MANUFACTURING COMPANY, INC., Carmi, Ill. Filed May 14, 1928.



The representation of the garment apart from the mark shown is disclaimed. The mark is applied to the garment by marking two red and two blue threads spaced from each other and alternately disposed in the waistband thereof.
For Men's Underwear—Namely Drawers and Union Suits.
Claims use since Apr. 16, 1928.

Ser. No. 266,484. B. F. SCHLESINGER & SONS, INC., New York, N. Y. Filed May 16, 1928.



No claim is made to the words "Frocks Moderne" apart from the mark as shown in the drawing. The lining of drawing is used for shading purposes only.
For Women's and Misses' Dresses.
Claims use since Mar. 15, 1928.

Ser. No. 268,249. STRUTWEAR KNITTING COMPANY, Minneapolis, Minn. Filed June 18, 1928.

Strut Step

For Hosiery and Knit and Woven Underwear for Men, Women, and Children.
Claims use since Mar. 26, 1928.

Ser. No. 268,250. STRUTWEAR KNITTING COMPANY, Minneapolis, Minn. Filed June 18, 1928.

Strut Point

For Hosiery and Knit and Woven Underwear for Men, Women, and Children.
Claims use since about May 26, 1928.

Ser. No. 268,267. MOSES BLUMBERG & SONS INC., New York, N. Y. Filed June 19, 1928.

BLOOM HILL FASHIONS

No claim is made to the term "Fashions" apart rom the mark shown in the drawing.
For Women's Wearing Apparel—Namely, Women's Dresses, Coats, and Underwear of Knitted and Textile Fabric, Sweaters, Women's and Misses' Hats and Blouses.
Claims use since May 16, 1928.

Ser. No. 268,672. M. & H. BLOCK CO., New York, N. Y. Filed June 26, 1928.

Mahblo REG'D

The term "Reg-d" is disclaimed apart from the mark as shown on the drawing.
For Neckwear and Mufflers, Neckties, and Collars.
Claims use since May 1, 1926.

Ser. No. 269,010. WHITE SWAN SHIRT COMPANY, Chicago, Ill. Filed July 2, 1928.

WHITE SWAN

For Shirts—Namely, Dress, Negligee, Sport Shirts, and Shirts Made to Order.
Claims use since Jan. 1, 1877.

Ser. No. 269,756. HENBERT SILK CO., New York, N. Y. Filed July 17, 1928.

"REDIMAID"

For Cloth Linings for Fur Coats.
Claims use since October, 1927.

Ser. No. 269,934. ANTHONY BROTHERS, INCORPORATED, also doing business at Biltmore Manufacturing Co., San Francisco, Calif. Filed July 21, 1928.



For Men's, Women's, and Children's Knit Underwear.
Claims use since June 1, 1928.

Ser. No. 269,937. BOY-TOGS MANUFACTURING COMPANY, Dallas, Tex. Filed July 21, 1928.



For One-Piece Overall Union Suits for Boys.
Claims use since May 1, 1928.

Ser. No. 269,964. KRESGE DEPARTMENT STORE CORPORATION, Newark, N. J. Filed July 21, 1928.

LYNBROOKE

For Men's and Boys' Outer Clothing—Namely, Overcoats, Coats, Raincoats, Suits, Sweaters, Trousers, Knickers, and Caps.
Claims use since July 6, 1928.

Ser. No. 270,228. CHARLES F. BERG, Portland, Oreg. Filed July 27, 1928.



For Hosiery.
Claims use since June 12, 1928.

Ser. No. 270,250. E. W. KING COMPANY, Bristol, Tenn. Filed July 27, 1928.

BLUE ◆ DIAMOND

For Work and Dress Shirts, Overalls, Trousers, Hosiery, and Underwear of Knitted and Textile Fabrics for Men, Women, and Children.
Claims use since Jan. 1, 1928.

Ser. No. 270,280. ARTHUR COHEN DRESS CORPORATION, New York, N. Y. Filed July 28, 1928.

Art-Co.

For Women's and Misses' Dresses.
Claims use since about June 1, 1928.

Ser. No. 270,359. UNIVERSAL OVERALLS COMPANY, Chicago, Ill. Filed July 30, 1928.

STONE CUTTER OVERALLS

The word "Overalls" is disclaimed apart from the mark as shown in the drawing.
For Men's Overalls.
Claims use since January, 1926.

Ser. No. 270,362. WIENER & KATZ, New York, N. Y. Filed July 30, 1928.

Spirit of Youth CLOTHES

No claim is made to the word "Clothes" apart from the mark as shown.
For Boys' and Men's Coats, Vests, Trousers, Topcoats, and Overcoats.
Claims use since June 22, 1928.

Ser. No. 270,390. PHILLIPS-JONES CORPORATION, New York, N. Y. Filed July 31, 1928.

Paja-Lastic

For Men's Underwear of Knitted or Textile Fabrics and Pajamas.
Claims use since July 2, 1928.

Ser. No. 270,425. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Aug. 1, 1928.

Walter Morton CLOTHES XXXX

The word "Clothes" is disclaimed apart from the mark as shown in the drawing.
For Men's Suits Comprising Coats, Vests, Trousers, and Knickers, and Men's Topcoats and Overcoats.
Claims use since July 20, 1928.

Ser. No. 270,505. PURITAN CLOTHING COMPANY, New York, N. Y. Filed Aug. 2, 1928.

ENDORSED BY Maitland EAGLE of the PACIFIC "SHOWER PROOFED"

The terms "Endorsed by" and "Shower Proofed" are disclaimed apart from the mark as shown on the drawing.
For Coats of Various Kinds for Men and Women.
Claims use since July 1, 1928.

Ser. No. 270,730. ANNA STONE, doing business as Max Stone, Corona, N. Y. Filed Aug. 7, 1928.

BIG LEADER

For Work Shirts.
Claims use since on or about January, 1928.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 270,201. PHILADELPHIA CARPET COMPANY, INCORPORATED, Philadelphia, Pa. Filed July 26, 1928.

DORIENT RUG

The word "Rug" is disclaimed apart from the mark shown in the drawing.
For Textile Rugs and Carpets, Which Comprises a Textile Woven Base and an Upstanding Pile or Nap.
Claims use since May 29, 1928.

Ser. No. 270,822. BRESLIN-GRIFFITT CARPET COMPANY, New York, N. Y. Filed Aug. 10, 1928.

OSMANIEH

For Carpets and Rugs, Both Textile.
Claims use since Aug. 7, 1928.

Ser. No. 270,824. BRESLIN-GRIFFITT CARPET COMPANY, New York, N. Y. Filed Aug. 10, 1928.

KAVASHAH

For Carpets and Rugs, Both Textile.
Claims use since Aug. 7, 1928.

Ser. No. 270,825. BRESLIN-GRIFFITT CARPET COMPANY, New York, N. Y. Filed Aug. 10, 1928.

ILYSSIA

For Carpets and Rugs, Both Textile.
Claims use since Aug. 7, 1928.

Ser. No. 270,827. BRESLIN-GRIFFITT CARPET COMPANY, New York, N. Y. Filed Aug. 10, 1928.

TANAGRA

For Carpets and Rugs, Both Textile.
Claims use since Aug. 7, 1928.

Ser. No. 270,868. WEIL & DURRSÉ, New York, N. Y. Filed Aug. 10, 1928.

The PRIDE of FLANDERS

For Tablecloths, Napkins, Towels, Scarfs, Doilies, Bedspreads, and Tray Cloths, Textile in Nature.
Claims use since about 1924.

Ser. No. 270,899. TWENTIETH CENTURY RAYON TEXTILES, INC., New York, N. Y. Filed Aug. 11, 1928.

SUPER Centex

For Knitted Fabrics of Silk, Rayon, and Mixtures of These Materials.
Claims use since June 1, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 271,096. W. WARREN THREAD WORKS, Westfield, Mass. Filed Aug. 15, 1928.



For Spool Cotton.
Claims use since 1900.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 262,972. GOTTLIEB SCHWIETZKE, doing business as Sichelschmidt & Co., Dusseldorf-Morsenbroich, Germany. Filed Mar. 10, 1928.



The representation of a dental bur is not claimed apart from the mark shown on the drawing.
For Dental Burs, Dental Cutters, Dental Burnishers, Dental Drills, Dental Spears, Dental Reamers, Root Facers, Stump Wheels, Stump Files, Vulcanite Wheels, Trephines, and Mandrels.
Claims use since Apr. 1, 1924.

Ser. No. 263,294. EMERY VAJDA, Cleveland, Ohio, assignor to The Emvalite Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 16, 1928.

EMVALITE

For Lights for Inserting in Body Cavities for Illuminating the Interior of the Cavities for Facilitating Diagnosis, Therapeutics, and Surgery Therein.
Claims use since Mar. 13, 1928.

Ser. No. 269,316. THE PHOTOGENIC MACHINE COMPANY, Youngstown, Ohio. Filed July 9, 1928.

HI-SUN

For Arc Lamps for Therapeutic and Diagnostic Purposes.
Claims use since June 10, 1928.

Ser. No. 270,568. ASEPTIC PRODUCTS CO., Long Island City, N. Y. Filed Aug. 4, 1928.

FIX-ALL

For Manicure Sets, Nail Files, Manicure Tweezers, Manicure Scissors, Nail Buffers, Orange-Wood Sticks, Manicure Nippers, Corn Knives, Cuticle Knives, Manicure Handle Pieces, Nail Clips, Pads for Removing Cold Cream, Sanitary Neckbands, Absorbent Cotton, Cotton Plasters, Eye Bandages, Suspensory Bandages, Elastic Bandages, Sanitary Gauze and Bandage Gauze, Sanitary Belts, Sanitary Napkins, Sanitary Aprons, Sanitary Bloomers, Sanitary Step-Ins, Rubber Sheets, Atomizers, Syringes, Douches, Eye Shades, Eyecups, Nursing Bottles, Hot-Water Bottles, Infants' or Babies Feeding Cups, Hospital Cups, Intestinal Irrigators, Nipples, Pacifiers, Teething Rings, Finger Cots, Prophylactic Membranous Articles for the Prevention of Contagious Diseases, Arch Supports, Abdominal Supporters and Surgical Instruments.
Claims use since July 26, 1928.

Ser. No. 270,888. DR. RICHARDS DYSPEPSIA TABLET ASSOCIATION, Norwalk, Conn. Filed Aug. 11, 1928.

COMODORA

For Sanitary Napkins, Surgical Dressings, and Bandages.
Claims use since Apr. 1, 1928.

Ser. No. 270,971. MCINTOSH ELECTRICAL CORPORATION, Chicago, Ill. Filed Aug. 13, 1928.



For Small High-Frequency Apparatus for Electromedical or Electrocosmetic Use.
Claims use since Apr. 28, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 253,135. BOYCE EXTRACT CO., Brooklyn and New York, N. Y., assignor to Fred Fear & Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 6, 1927.

7 FRUITS

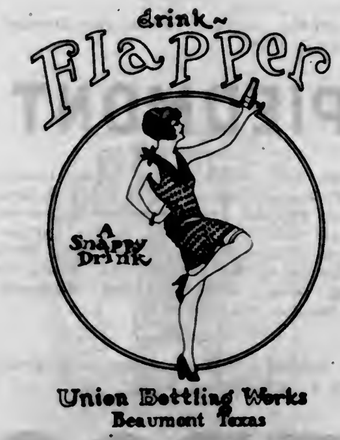
For Nonalcoholic, Noncereal, Maltless Fruit Syrups Used in the Preparation of Soft Drinks.
Claims use since July 30, 1927.

Ser. No. 254,674. THE ISUAN CORPORATION, Manila, P. I. Filed Sept. 13, 1927.

Isuan

For Ginger Ale and Mineral Water.
Claims use since on or about Aug. 15, 1915.

Ser. No. 262,640. TONY IPPOLITO, doing business as Union Bottling Works, Beaumont, Tex. Filed Mar. 5, 1928.



The words "Drink," "A Snappy Drink," and "Beaumont, Texas" are disclaimed apart from the other features of the mark shown in the drawing.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Oct. 1, 1927.

Ser. No. 263,111. LIBERTUS VAN BOKKELEN, Buenos Aires, Argentina. Filed Mar. 13, 1928.

Vanbo

For Nonalcoholic, Noncereal, Maltless Beverages.
Claims use since Feb. 12, 1926.

Ser. No. 269,866. SPARKLING BEVERAGE CO., Detroit, Mich. Filed July 19, 1928.

Nu-Ale

Applicant disclaims the word "Ale" apart from the mark as shown in the drawing.
For Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Syrups and Extracts for Making the Same.
Claims use since Nov. 1, 1927.

Ser. No. 270,877. CALIFORNIA GRAPE PRODUCTS CO. INC., Ukiah, Calif., and New York, N. Y. Filed Aug. 11, 1928.

GRAP-O-NEY

For Grape Syrup for Use in Beverages.
Claims use since July 20, 1928.

Ser. No. 271,324. THEONETT & CO., INC., Chicago, Ill. Filed Aug. 20, 1928.

Hi-Lo

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Syrups and Extracts for Making Same.
Claims use since May 1, 1925.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 253,834. COTTAGE CANNING COMPANY, Mount Airy, N. C. Filed Aug. 23, 1927.

CAROLINA BEAUTY

No claim is made to the geographical name "Carolina" apart from the mark as shown.
For Canned Fruits and Canned Vegetables.
Claims use since 1926.

Ser. No. 259,079. RICHMOND-CHASE COMPANY, San Jose, Calif. Filed Dec. 17, 1927.

Pacific Home

For Canned Fruits—Namely, Apricots, Cherries, Grapes, Peaches, Pears, Plums, Pineapple, Fruit Salad, Prepared Prunes in Syrup; Canned Vegetables—Namely, Asparagus, Spinach, Tomatoes, and Celery.
Claims use since September, 1925.

Ser. No. 259,281. GARNEAU & DE BRUYN, INC., New York, N. Y. Filed Dec. 23, 1927.



For Food Products—Namely, Canned Sardines and Canned Sprats.
Claims use since December, 1926.

Ser. No. 262,082. HAAS-BARUCH & COMPANY, Los Angeles, Calif. Filed Feb. 23, 1928.

IRIS

For Canned Vegetables, Canned Fruits, Canned Berries, Canned Fish, Canned Shellfish, Codfish Tablets, Dried Vegetables, Fruit Pickles, Canned Hominy, Canned Sauerkraut, Applebutter, Olives, Catsup, Pickle and Vegetable Relishes, Pickles, Chili Con Carne, Chop Suey; Fruits in Glass; Jams, Jellies, and Fruit Preserves; Food-Flavoring Extracts; Tomato Sauce, Oyster-Cocktail Sauce, Chili Sauce, Pepper Sauce, and Apple Sauce; Soups; Canned Table Syrups—Namely, Cane and Maple Syrup Combined and Maple Syrup; Chili Powder, Salad Dressing, Canned Chicken a la King, Pineapple Juice, Bird Seed, Head Rice, Breakfast Cereals, Tea and Coffee, Honey, Cornstarch, Sago, Spices, Canned Pimientos, Mincemeat, Olive Oil, Sauerkraut Juice, Tapioca, and Unpopped Pop Corn.
Claims use since January, 1898.

Ser. No. 263,187. UNITED BI-PRODUCTS COMPANY, Kansas City, Mo. Filed Mar. 14, 1928.



No claim is made to the words "Brand" and "Concentrate" apart from the mark as shown in the drawing.
For Pig and Hog Feed.
Claims use since Sept. 4, 1926.

Ser. No. 264,494. MUTUAL STORES, INC., Oakland, Calif. Filed Apr. 7, 1928.

PIEDMONT

For Pure Sage Honey, Relish Spread Consisting of Chopped Pickles and Mayonnaise, Canned Fish, Evaporated Milk, Dried Peaches, Jelly, Loganberry Preserves, Pure Apple-Cider Vinegar, Pop Corn in Its Natural State, Table Syrup, Chicken Tamales, Plain Pickles, Mayonnaise, Pepper, Lemon Extract for Flavoring Foods, Vegetable Shortening; Oats, a Breakfast Cereal; Mushroom Sauce.
Claims use since Jan. 5, 1928.

Ser. No. 265,782. EASTERN PRODUCTS COMPANY, New York, N. Y. Filed May 2, 1928.

EPCO

For Gelatin Dessert Powder, Pudding Powders, and Devil's Food Cake Mix.
Claims use since May 1, 1923.

Ser. No. 266,623. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed May 18, 1928. Under section 5b of the act of 1905 as amended in 1920.

ROKEACH

For Fruit Preserves, Vegetable Fat, Salad Oil, a Cottonseed Product, Honey, and Cocoa.
Claims use since 1901.

Ser. No. 268,090. GERBER BROS., Brooklyn, N. Y. Filed June 15, 1928.

PARK LANE

For Canned Fruit, Canned Vegetables, Canned Fish, Spices, Bottled Olives, Pickles, Peanut Butter, Peach Preserves, Raspberry Preserves, and Sweet and Sour Relishes Made of Chopped Pickles, Cauliflower, Onions, Cabbage, Tomatoes, Red and Green Peppers, Vinegar, and Sugar.
Claims use since May 28, 1928.

Ser. No. 268,320. SOC. COOP. "OSTENDIA," Ostende, Belgium. Filed June 19, 1928.



For Preserved and Canned Fish.
Claims use since July, 1927.

Ser. No. 268,735. ELANORA G. JACKSON, Swampscott, Mass. Filed June 27, 1928.



No claim is made to the words "The Popular Sweets."
For Candies.
Claims use since Apr. 16, 1928.

Ser. No. 268,854. DOUGHNUT MACHINE CORPORATION, New York, N. Y. Filed June 29, 1928.



No claim is made to the exclusive use of the words "Doughnut Mixture" apart from the mark shown in the drawing.
For Doughnut Mixture.
Claims use since Nov. 3, 1920.

Ser. No. 268,906. ROBERT BLUMER, Falfurrias, Tex. Filed June 30, 1928.

LAPARRITA

For Live and Dressed Chickens, Turkeys, Ducks, Geese, Pigeons for Food Purposes, and Squabs, and for the Following Products All in Their Natural State: Eggs, Oranges, Grapes, Grapefruit, Lemons, Limes, Honey, Nuts, Peaches, Peanuts, Sweet Potatoes, Onions, Melons, Cucumbers, Peas, Beans, Cantaloupes, and Tomatoes.
Claims use since about April, 1925.

Ser. No. 268,936. THE PITTSBURG ELEVATOR CO., Pittsburg, Kans. Filed June 30, 1928.

"PECO"

For Mixed Feed, Horse Feed, Horse and Mule Feed, Grit, Barley Chop, Dairy Feed, Chick Fattener, Chick Starter and Grower, Egg Mash, Corn Feed Meal, Ground Oats, Ground Kaffir, Rye Chop, and Pigeon Feed.
Claims use since October, 1914.

Ser. No. 269,508. BOHEMIAN DISTRIBUTING CO. INC., Los Angeles, Calif. Filed July 13, 1928.

BOHEMIAN PRIDE

For Malt Syrup.
Claims use since July 1, 1921.

Ser No. 269,637. CONSUMERS BUTTER CO., INC., Minneapolis, Minn. Filed July 16, 1928.



No claim is made to the word "Golden" apart from the mark as shown.
For Butter.
Claims use since May 1, 1926.

Ser. No. 269,809. TEA GARDEN PRODUCTS CO., formerly doing busines as Pacific Coast Syrup Co., San Francisco, Calif. Filed July 18, 1928.

Wild Rose

For Honey.
Claims use since Jan. 1, 1894.

Ser. No. 270,198. THE PAGE MILLING CO., Luray, Va. Filed July 26, 1928.

STAR OF THE EAST

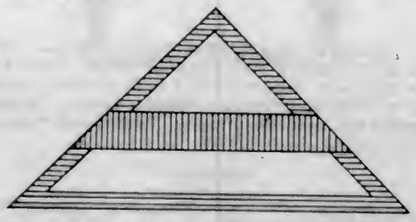
For Plain and Self-Rising Flours.
Claims use since June 28, 1928.

Ser. No. 270,272. AMERICAN CONE & PRETZEL COMPANY, Philadelphia, Pa. Filed July 28, 1928.

Rold Gold

For Ice-Cream Cones, Pretzels, Cake, Pie, Potato Chips, and Noodles.
Claims use since June 1, 1917.

Ser. No. 270,585. GERBER & CO. INC., New York, N. Y. Filed Aug 4, 1928.



The border of the mark is customarily colored blue and the transverse band customarily colored red, the specific coloring, however, not being an essential feature of the mark and appearing on the drawing by lining for shading purposes only.
For Cheese.
Claims use since July 1, 1928.

Ser. No. 270,790. CARL J. BRUDER, doing business as Bruder's Goulash Kitchen, Portland, Oreg. Filed Aug. 9, 1928.



No claim is made to the quotation "Goulash the Original" or "The Original."
For Canned Goulash.
Claims use since June 20, 1928.

Ser. No. 271,021. SAMUEL A. COHN & BRO., doing business as Brüder Distributing Co., Hazleton, Pa. Filed Aug. 15, 1928.

BRÜDER

For Malt Syrup.
Claims use since Aug. 1, 1928.

Ser. No. 271,022. THE CONTINENTAL FRUIT PACKING CO., LIMITED, London, England. Filed Aug. 15, 1928.



For Canned Fruits and Canned Vegetables.
Claims use since June 23, 1928.

Ser. No. 271,045. HAWLEY & HOOPS, New York, N. Y. Filed Aug. 15, 1928.

A. No. 1 EXPRESS

Applicant is owner of registration No. 54,008, registered under the ten-year proviso.
For Candy.
Claims use since about June 25, 1928.

Ser. No. 271,132. W. C. LEHNERT, doing business as Frederick Malt & Products Co., Baltimore, Md. Filed Aug. 16, 1928.

ORIGINAL
FREDERICK
BRAND

Frederick Malt & Products Co.

The word "Brand" is disclaimed.
For Malt Syrup.
Claims use since January, 1926.

Ser. No. 271,194. THE PEXEL CO., Chicago, Ill. Filed Aug. 17, 1928.

PEXEL
MAKES JELLY JELL

The words "Makes Jelly Jell" do not form a part of the registration sought apart from the mark shown in the drawing.
For Unflavored Prepared Fruit Pectin for Making Jelly from Fruit Juices.
Claims use since Jan. 12, 1928.

Ser. No. 271,220. WASHINGTON GROWERS PACKING CORPORATION, also doing business as Washington Canners Co-Operative, Vancouver, Wash. Filed Aug. 17, 1928.

BESTWEST

For Canned Fruits.
Claims use since Apr. 15, 1928.

Ser. No. 271,557. THE MENNEL MILLING COMPANY, Toledo, Ohio. Filed Aug. 25, 1928.

KANSPRING



For Wheat Flour.
Claims use since Apr. 11, 1927.

Ser. No. 271,688. COAST FISHING COMPANY, Wilmington, Calif. Filed Aug. 29, 1928.

KING SOLOMON

For Canned Fish.
Claims use since Aug. 1, 1928.

Ser. No. 271,685. DAVIS STANDARD BREAD CO., INCORPORATED, Los Angeles, Calif. Filed Aug. 29, 1928.

JAVA JEMS

For Doughnuts.
Claims use since Sept. 1, 1924.

Ser. No. 271,702. LUDEN'S INC., Reading, Pa. Filed Aug. 29, 1928.

Some Bologna

For Candy.
Claims use since June 16, 1928.

Ser. No. 271,703. THE MCMILLEN CO., Fort Wayne, Ind. Filed Aug. 29, 1928.

JUMBO

For Poultry, Dairy, and Stock Feeds.
Claims use since Jan. 10, 1919.

Ser. No. 271,711. SEAPORT COFFEE CO., INC., Houston, Tex. Filed Aug. 29, 1928.

TOASTMASTER

For Coffee.
Claims use since June 25, 1928.

Ser. No. 271,715. STEIN, HALL MANUFACTURING COMPANY, Chicago, Ill. Filed Aug. 29, 1928.

FLOMELLO

For Chocolate Coating and Centers Used in the Manufacture of Confections.
Claims use since June 2, 1928.

Ser. No. 271,810. K. ISHIHARA COMPANY, also doing business as Ishihara Canning Co., San Francisco, Calif Filed Aug. 31, 1928.

Hima

For Canned Bamboo Shoots.
Claims use since March, 1927.

CLASS 47.

Wines.

Ser. No. 266,981. PIERRE DE LA MONTANYA, doing business as Alta Vista Wines Company, San Francisco, Calif. Filed May 25, 1928.

ALTA VISTA

For Wines.
Claims use since May 14, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 270,264. THE R. U. V. COMPANY, INC., New York, N. Y. Filed July 27, 1928.

MIRAMAR

For Advertising Signs Illuminated by Daylight.
Claims use since July 12, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 9, 1928.

247,814. WATCHES AND WATCHCASES. SOUTH BEND WATCH CO., South Bend, Ind.
Filed May 16, 1928. Serial No. 266,487. PUBLISHED JULY 24, 1928. Class 27.

247,815. WATCHES AND WATCHCASES. SOUTH BEND WATCH CO., South Bend, Ind.
Filed May 16, 1928. Serial No. 266,490. PUBLISHED JULY 24, 1928. Class 27.

247,816. GOLF CLUBS, GOLF BALLS, GOLF BAGS, AND GOLF TEES. THE KROYDON COMPANY, Hilton, N. J.
Filed May 10, 1928. Serial No. 266,205. PUBLISHED JULY 31, 1928. Class 22.

247,817. GASOLINE. ASHLAND REFINING COMPANY, Ashland, Ky.
Filed May 10, 1928. Serial No. 266,184. PUBLISHED JULY 24, 1928. Class 15.

247,818. GASOLINE. ASHLAND REFINING COMPANY, Ashland, Ky.
Filed May 10, 1928. Serial No. 266,183. PUBLISHED JULY 24, 1928. Class 15.

247,819. ELECTRICAL INDUSTRIAL FURNACES. JAMES H. HERRON COMPANY, Cleveland, Ohio.
Filed May 7, 1928. Serial No. 266,029. PUBLISHED JULY 24, 1928. Class 21.

247,820. GASOLINE. CITIES SERVICE OIL COMPANY, Cleveland, Ohio.
Filed May 5, 1928. Serial No. 265,952. PUBLISHED JULY 24, 1928. Class 15.

247,821. ELECTRIC PICK-UP DEVICE USED AS A REPRODUCER IN CONJUNCTION WITH PHONOGRAPHS AND RADIO RECEIVING SETS. THE PHONO LINK CO., INC., New York, N. Y.
Filed April 27, 1928. Serial No. 265,496. PUBLISHED JULY 24, 1928. Class 21.

247,822. ELECTRICAL SWITCHES FOR CONTROLLING AUTOMATIC HEATING SYSTEMS. ABSOLUTE CONTAC-TOR CORPORATION, Elkhart, Ind.
Filed April 26, 1928. Serial No. 265,419. PUBLISHED JULY 24, 1928. Class 21.

247,823. KNITTED SURGICAL ELASTIC STOCKINGS, ABDOMINAL SUPPORTS, SURGICAL BELTS, AND BANDAGES. FRANK W. GORSE CO., Needham, Mass.
Filed April 25, 1928. Serial No. 265,380. PUBLISHED JULY 31, 1928. Class 44.

247,824. BATTERIES. CHARLES ZIMMERMAN, doing business as Beacon Battery Co., New York, N. Y.
Filed April 24, 1928. Serial No. 265,352. PUBLISHED JULY 24, 1928. Class 21.

247,825. MOTOR-LUBRICATING OIL. BEACON OIL COMPANY (INC.), Everett, Mass.
Filed April 19, 1928. Serial No. 265,087. PUBLISHED JULY 24, 1928. Class 15.

247,826. SHAVING BRUSHES. MILES BROS. & CO. INC., New York, N. Y.
Filed April 18, 1928. Serial No. 265,056. PUBLISHED JULY 24, 1928. Cass 29.

247,827. GOLF-PUTTING PRACTICE DEVICE. DES MOINES WOOD PRODUCTS COMPANY, Des Moines, Iowa.
Filed April 16, 1928. Serial No. 264,872. PUBLISHED JULY 31, 1928. Class 22.

247,828. LUBRICATING OILS. W. R. WOELK, doing business as Alpena Petroleum Products, Alpena, Mich.
Filed April 9, 1928. Serial No. 264,627. PUBLISHED JULY 24, 1928. Class 15.

247,829. ARCH SUPPORTS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed April 7, 1928. Serial No. 264,535. PUBLISHED JULY 31, 1928. Class 44.

247,830. WRITING TABLETS, COMPOSITION BOOKS, NOTEBOOKS, AND WRITING PAPERS. THOMAS J. MITCHELL, doing business as National Pad and Paper Company, Utica, N. Y.
Filed March 14, 1928. Serial No. 263,172. PUBLISHED JULY 31, 1928. Class 37.

247,831. PHONOGRAPHS. ORCHESTRAPHONE COMPANY, Chicago, Ill.
Filed February 25, 1928. Serial No. 262,253. PUBLISHED JULY 24, 1928. Class 36.

247,832. ELECTRICAL REPRODUCING AND AMPLIFYING APPARATUS FOR PHONOGRAPH RECORDS. ORCHESTRAPHONE COMPANY, Chicago, Ill.
Filed February 25, 1928. Serial No. 262,252. PUBLISHED JULY 24, 1928. Class 21.

247,833. LUBRICATING OILS AND GREASES. GUNFIL CORPORATION, Philadelphia, Pa.
Filed February 20, 1928. Serial No. 261,959. PUBLISHED JULY 24, 1928. Class 15.

247,834. PLATINUM RINGS, BROOCHES, BAR PINS, LAVALLIÈRES, BRACELETS, AND SIGNET RINGS. ARTHUR W. FORMAN, doing business as Cooper & Forman, New York, N. Y.
Filed June 5, 1928. Serial No. 267,489. PUBLISHED JULY 31, 1928. Class 28.

247,835. WATCHES, WATCHCASES, WATCH MOVEMENTS, AND PARTS THEREOF. HAYMAN EPSTEIN, doing business as Bulwark Watch Company, New York, N. Y.
Filed June 6, 1928. Serial No. 267,542. PUBLISHED JULY 31, 1928. Class 27.

247,836. COASTER SLEDS. THE FENN MANUFACTURING COMPANY, Charlotte, Mich.
Filed June 7, 1928. Serial No. 267,648. PUBLISHED JULY 31, 1928. Class 22.

247,837. WATCHES AND CLOCKS. TIFFANY & COMPANY, New York, N. Y.
Filed June 13, 1928. Serial No. 268,005. PUBLISHED JULY 31, 1928. Class 27.

247,838. GOLF BALLS. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed June 14, 1928. Serial No. 268,021. PUBLISHED JULY 31, 1928. Class 22.

247,839. RECTAL ANALGESIA ACCESSORY SETS. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed June 14, 1928. Serial No. 268,044. PUBLISHED JULY 31, 1928. Class 44.

247,840. GASOLINE. ASHLAND REFINING COMPANY, Ashland, Ky.
Filed June 16, 1928. Serial No. 268,132. PUBLISHED JULY 24, 1928. Class 15.

247,841. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES. L. HILSENBECK, INC., New York, N. Y
Filed June 16, 1928. Serial No. 268,157. PUBLISHED JULY 31, 1928. Class 44.

247,842. TOOTHBRUSH. E. R. SQUIBB & SONS, New York, N. Y.
Filed June 16, 1928. Serial No. 268,177. PUBLISHED JULY 24, 1928. Class 20.

247,843. TOY GUNS, FELT-NOSE BULLETS, AND OTHER PROJECTILES THEREFOR, AND TARGETS. DEEKS MANUFACTURING COMPANY, INC., Camden, N. J.
Filed June 18, 1928. Serial No. 268,215. PUBLISHED JULY 31, 1928. Class 22.

247,844. GOLF CLUBS. R. H. MACY & CO., INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,505. PUBLISHED JULY 31, 1928. Class 22.

247,845. TYPEWRITING RIBBONS, CARBON PAPER, AND INKING PADS. GÜNTHER WAGNER, Hanover, Germany.
Filed June 16, 1928. Serial No. 268,199. PUBLISHED JULY 31, 1928. Class 11.

247,846. LEDGER CARD TRAYS OF SHEET METAL. YAWMAN AND ERBE MFG. CO., Rochester, N. Y.
Filed June 16, 1928. Serial No. 268,198. PUBLISHED JULY 31, 1928. Class 32.

247,847. SANITARY NAPKINS. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa.
Filed June 16, 1928. Serial No. 268,191. PUBLISHED JULY 24, 1928. Class 44.

247,848. MIXING FAUCETS, VALVES, NOZZLES, AND CONNECTIONS. WILLIAM L. DEMING, Salem, Ohio.
Filed June 16, 1928. Serial No. 268,146. PUBLISHED JULY 31, 1928. Class 13.

247,849. BREAD. JUNGE BAKING COMPANY, Joplin, Mo.
Filed June 14, 1928. Serial No. 268,042. PUBLISHED JULY 24, 1928. Class 46.

247,850. AUTOMOBILE AWNINGS. HILL MANUFACTURING COMPANY, INC., Belmond, Iowa.
Filed June 14, 1928. Serial No. 268,037. PUBLISHED JULY 31, 1928. Class 19.

247,851. POWDER TO BE DISSOLVED IN WATER FOR USE IN CLEANING AND REMOVING STAINS FROM TEXTILE FABRICS SUCH AS CARPETS, CURTAINS, TAPESTRIES, UPHOLSTERED FURNITURE, AND THE LIKE. JAMES B. MCCOMB, New York, N. Y.
Filed June 12, 1928. Serial No. 267,898. PUBLISHED JULY 24, 1928. Class 4.

247,852. CAKES AND COOKIES. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y.
Filed June 11, 1928. Serial No. 267,844. PUBLISHED JULY 24, 1928. Class 46.

247,853. BASEBALL BATS. THE HANNA MANUFACTURING COMPANY, Athens, Ga.
Filed June 11, 1928. Serial No. 267,841. PUBLISHED JULY 24, 1928. Class 22.

247,854. AIRPLANES. AMERICAN EAGLE AIRCRAFT CORPORATION, Kansas City, Mo.
Filed June 11, 1928. Serial No. 267,824. PUBLISHED JULY 31, 1928. Class 19.

247,855. FRESH WATERMELONS. KRAMER & BARCUS, Leesburg, Fla.
Filed June 6, 1928. Serial No. 267,590. PUBLISHED JULY 31, 1928. Class 46.

247,856. BASEBALL BATS. HILLERICH & BRADSBY CO., Louisville, Ky.
Filed June 6, 1928. Serial No. 267,577. PUBLISHED JULY 24, 1928. Class 22.

247,857. CLEANER FOR GLASS, WINDOWS, MIRRORS, AUTOMOBILE WINDSHIELDS, EYEGLASSES, AND SIMILAR GLASS SURFACES. CLARENCE S. DADE, doing business as Aunt Lizzie's Glass Cleaner Co., Jamaica Plain, Mass.
Filed June 6, 1928. Serial No. 267,540. PUBLISHED JULY 24, 1928. Class 4.

247,858. SOAP. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed June 5, 1928. Serial No. 267,505. PUBLISHED JULY 24, 1928. Class 4.

247,859. NEUTRAL SOAP COMPOUNDS. RIVERSIDE MANUFACTURING CO., St. Louis, Mo.
Filed May 31, 1928. Serial No. 267,276. PUBLISHED JULY 24, 1928. Class 4.

247,860. PERIODICAL DEVOTED TO THE HUMAN PROBLEMS OF INDUSTRY. THE INDUSTRIAL EXECUTIVE, INC., New York, N. Y.
Filed May 31, 1928. Serial No. 267,257. PUBLISHED JULY 31, 1928. Class 38.

247,861. SOAP. COLGATE & COMPANY, Jersey City, N. J.
Filed May 31, 1928. Serial No. 267,241. PUBLISHED JULY 24, 1928. Class 4.

247,862. FEED FOR LIVESTOCK. UNIVERSAL MILLS, Fort Worth, Tex.
Filed May 29, 1928. Serial No. 267,220. PUBLISHED JULY 24, 1928. Class 46.

247,863. CLEANING AND POLISHING MATERIAL FOR JEWELRY AND METAL WARE. TIFFANY & COMPANY, New York, N. Y.
Filed May 26, 1928. Serial No. 267,099. PUBLISHED JULY 24, 1928. Class 4.

247,864. FEED, LITTER, MILK CANS, AND SWILL CARRIERS AND CARRIER TRACKING, INCLUDING HANGERS AND FITTINGS; BARN-FLOOR SCRAPERS; POULTRY EQUIPMENT—NAMELY, DROPPING-BOARD SCRAPERS; FEED SCOOPS, SPRAYERS FOR POULTRY HOUSES AND OTHER FARM BUILDINGS; AND HAY TOOLS, INCLUDING CARRIER TRACK AND FITTINGS THEREOF, SOLD AS A UNIT, FARM CRANES, AND OUTSIDE METAL SUPPORTS FOR LITTER-CARRIER TRACKS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed May 26, 1928. Serial No. 267,056. PUBLISHED JULY 31, 1928. Class 23.

247,865. METAL GRAVITY ROOF VENTILATORS; GRAVITY VENTILATING SYSTEMS FOR FARM USE CONSISTING OF GRAVITY ROOF VENTILATORS, FLUES, LOUVERS, VALVES, AND ACCESSORIES AND PARTS THEREFOR; BROODER STOVES, BOTH COAL AND OIL BURNING; COAL AND OIL POULTRY-HOUSE HEATING SYSTEMS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed May 26, 1928. Serial No. 267,052. PUBLISHED JULY 31, 1928. Class 34.

247,866. PLANS AND SPECIFICATIONS FOR FARM BUILDINGS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed May 26, 1928. Serial No. 267,051. PUBLISHED JULY 24, 1928. Class 38.

247,867. BABY OR NURSING BOTTLES. HYGEIA NURSING BOTTLE COMPANY, INC., Buffalo, N. Y.
Filed May 14, 1928. Serial No. 266,376. PUBLISHED JULY 24, 1928. Class 44.

247,868. ELASTIC STOCKINGS. THE WILLIAM M. EISEN COMPANY, INC., New York, N. Y.
Filed May 14, 1928. Serial No. 266,364. PUBLISHED JULY 24, 1928. Class 44.

247,869. COOKIES. C. G. JOHNSTON & SONS, Clearfield, Pa.
Filed May 12, 1928. Serial No. 266,324. PUBLISHED JULY 24, 1928. Class 46.

247,870. PERMANENT-WAVING MACHINES AND ACCESSORIES AND EQUIPMENT THEREFOR. YVETTE CO., New York, N. Y.
Filed May 11, 1928. Serial No. 266,293. PUBLISHED JULY 24, 1928. Class 44.

247,871. CANNED CRAB MEAT. SASATO YAMATE, doing business as Yamate Bros., San Francisco, Calif.
Filed May 11, 1928. Serial No. 266,291. PUBLISHED JULY 31, 1928. Class 46.

247,872. SHOVELS, SPADES, AND SCOOPS. AMES SHOVEL & TOOL COMPANY, Boston, Mass.
Filed May 11, 1928. Serial No. 266,234. PUBLISHED JULY 31, 1928. Class 23.

247,873. AUTOMOBILE AND FURNITURE POLISH. STANDARD DRUG COMPANY, Los Angeles, Calif.
Filed May 8, 1928. Serial No. 266,107. PUBLISHED JULY 31, 1928. Class 16.

247,874. GOLF BAGS. PLAYGOLF, INC., Cleveland, Ohio.
Filed May 8, 1928. Serial No. 266,095. PUBLISHED JULY 24, 1928. Class 22.

247,875. DRY-CLEANING PREPARATION FOR CLEANING RUNNING BOARDS AND FOOTBOARDS OF AUTOMOBILES, VARIOUS ARTICLES OF CLOTHING, WOOLENS, AND ALL DELICATE FABRICS. ALBERT G. MAAG, Indianapolis, Ind.
Filed May 4, 1928. Serial No. 265,913. PUBLISHED JULY 31, 1928. Class 4.

247,876. DEFLECTOR AND ADJUSTABLE LOUVER WINDOW VENTILATORS AND PARTS THEREOF. FREDERICK EHRSAM, doing business as The Victor Screen Ventilator Co., Reading, Pa.
Filed May 3, 1928. Serial No. 265,883. PUBLISHED JULY 31, 1928. Class 34.

247,877. PLAYING CARDS. MAXWELL A. BLASK, doing business as Personal Stationery Co., San Francisco, Calif.
Filed May 2, 1928. Serial No. 265,776. PUBLISHED JULY 24, 1928. Class 22.

247,878. BANDS, STAYS, OPEN SEALS, AND SEALS USED IN REINFORCING BOXES AND PACKAGES AND IN THE PRACTICE OF LOADING FREIGHT CARS AND OTHER CARRIERS. ACME STEEL COMPANY, Chicago, Ill.
Filed May 2, 1928. Serial No. 265,765. PUBLISHED JULY 31, 1928. Class 13.

247,879. PAINT ENAMELS AND VARNISHES. GREAT LAKES VARNISH WORKS, INC., Chicago, Ill.
Filed April 28, 1928. Serial No. 265,537. PUBLISHED JULY 24, 1928. Class 16.

247,880. POLISH FOR FLOORS, LINOLEUM, OILCLOTH, AND VARNISHED WOODWORK. DAVID M. YORBURG, doing business as Brite Floor Products Co., Brooklyn, N. Y.
Filed April 26, 1928. Serial No. 265,458. PUBLISHED JULY 24, 1928. Class 16.

247,881. METALLIC PAINT. C AND H PRODUCTS CORPORATION, New York, N. Y.
Filed April 24, 1928. Serial No. 265,318. PUBLISHED JULY 31, 1928. Class 16.

247,882. CANNED VEGETABLES. SUNRICH CANNERIES, Beaver Dam, Wis.
Filed April 23, 1928. Serial No. 265,303. PUBLISHED JULY 31, 1928. Class 46.

247,883. LAUNDRY AND DRY-CLEANING MACHINERY AND APPLIANCES. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood Station, Cincinnati, Ohio.
Filed April 21, 1928. Serial No. 265,182. PUBLISHED JULY 31, 1928. Class 24.

247,884. BASEBALL GLOVES AND MITTS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed April 20, 1928. Serial No. 265,181. PUBLISHED JULY 24, 1928. Class 22.

247,885. PROPHYLACTIC RUBBER ARTICLES FOR PREVENTION OF CONTAGIOUS DISEASES. AUGUSTUS G. VINING, Atlanta, Ga.
Filed April 20, 1928. Serial No. 265,178. PUBLISHED JULY 24, 1928. Class 44.

247,886. TOILET SOAPS. MARIE EARLE, INC., New York, N. Y.
Filed May 26, 1928. Serial No. 267,068. PUBLISHED JULY 24, 1928. Class 4.

247,887. MACARONI. UNITED STATES MACARONI CO. INC., Los Angeles, Calif.
Filed April 17, 1928. Serial No. 265,025. PUBLISHED JULY 24, 1928. Class 46.

247,888. COMPOUND SYRUP MADE OF CANE SUGAR, CORN, AND GRAPE SYRUP. EUGÈNE VENTRE, Opelousas, La.
Filed April 16, 1928. Serial No. 264,930. PUBLISHED JULY 24, 1928. Class 46.

247,889. INSTRUCTION COURSES PUBLISHED IN A SERIES—NAMELY, CHARTS, ILLUSTRATIONS, DIAGRAMS, TEXTBOOKS, AND EDUCATIONAL LITERATURE. NATURAL EYESIGHT INSTITUTE INC., Los Angeles, Calif.
Filed April 16, 1928. Serial No. 264,898. PUBLISHED JULY 31, 1928. Class 38.

247,890. SHINGLE STAIN, AUTOMOBILE POLISH, AND A FLOOR-POLISHING PREPARATION. RICHARD W. BOWLER, Bellingham, Wash.
Filed April 16, 1928. Serial No. 264,865. PUBLISHED JULY 31, 1928. Class 16.

247,891. GENERAL TONIC. CHIN LAIN, doing business as Kwong Quong Chiy Co., Canton, China, and as the Quong Chong Co., San Francisco, Calif.
Filed April 11, 1928. Serial No. 264,690. PUBLISHED JULY 17, 1928. Class 6.

247,892. CHART FOR ILLUSTRATING HOUSEHOLD EXPENDITURES. FRED A. HOLTZ, Elkhart, Ind.
Filed April 11, 1928. Serial No. 264,686. PUBLISHED JULY 31, 1928. Class 38.

247,893. CERTAIN NAMED PAINT PRODUCTS. BERRY J. DAVIS, doing business as World Star Paint Co., Kansas City, Mo.
Filed April 9, 1928. Serial No. 264,568. PUBLISHED JULY 31, 1928. Class 16.

247,894. CIGARS. PETRI CIGAR CO. INC., San Francisco, Calif.
Filed April 7, 1928. Serial No. 264,531. PUBLISHED JULY 31, 1928. Class 17.

247,895. POWDERED SOAP, MECHANIC'S SOAP, TOILET SOAP, AND METAL POLISH AND AUTO TOP DRESSING AND SHAVING SOLUTION. FEDERAL DISTRIBUTORS, INC., Portland, Oreg.
Filed April 7, 1928. Serial No. 264,511. PUBLISHED JULY 31, 1928. Class 4.

247,896. HINGES, SCREENS, HANGERS, HASPS, ETC. THE STANLEY WORKS, New Britain, Conn.
Filed April 6, 1928. Serial No. 264,483. PUBLISHED JULY 24, 1928. Class 13.

247,897. TOY VEHICLES. WILLIAM THOMAS WATSON, Vancouver, British Columbia, Canada.
Filed April 5, 1928. Serial No. 264,398. PUBLISHED JULY 24, 1928. Class 22.

247,898. AUTOMOBILES AND THEIR STRUCTURAL PARTS. AMPLEX MANUFACTURING COMPANY, Detroit, Mich., assignor by mesne assignments, to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware.
Filed April 5, 1928. Serial No. 264,346. PUBLISHED JULY 31, 1928. Class 19.

247,899. WHEAT MIXED FEED FOR CATTLE, HOGS, AND POULTRY. THE FRANK R. PRINA CORPORATION, New York, N. Y.
Filed April 4, 1928. Serial No. 264,328. PUBLISHED JULY 3, 1928. Class 46.

247,900. CERTAIN NAMED PAINT PRODUCTS. PENINSULAR PAINT AND VARNISH COMPANY, Detroit, Mich.
Filed April 2, 1928. Serial No. 264,190. PUBLISHED JULY 24, 1928. Class 16.

247,901. SPOOLS FOR TYPEWRITERS. CARL FR. BRAUER G. M. B. H., Stettin, Germany.
Filed April 2, 1928. Serial No. 264,136. PUBLISHED JULY 31, 1928. Class 23.

247,902. SELF-RISING FLOUR AND WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y.
Filed March 29, 1928. Serial No. 263,979. PUBLISHED JULY 24, 1928. Class 46.

247,903. ADHESIVE PASTE, GLUE, AND MUCILAGE. GÜNTHER WAGNER, Hanover, Germany.
Filed March 29, 1928. Serial No. 263,943. PUBLISHED JULY 24, 1928. Class 5.

247,904. PICKLED, BISMARCK, DRIED, AND SMOKED HERRING; SMOKED EELS, EELS IN JELLY, ANCHOVIES, ANCHOVY PASTE, FILET OF ANCHOVIES, SARDELLEN BUTTER, JELLIED FISH; MUSSELS PACKED IN VINEGAR, WINE SAUCE, MAYONNAISE, MUSTARD, AND TOMATO SAUCE; MUSSEL COCKTAILS, OYSTER COCKTAILS, AND PICKLED, DRIED, AND SMOKED SARDINES, SPRATS, CODFISH, CAVIAR, AND SHRIMPS. HELLER BROTHERS IMPORTING CO., INC., doing busines as Vita Fish Preserving Works, New York, N. Y.
Filed March 27, 1928. Serial No. 263,823. PUBLISHED JULY 31, 1928. Class 46.

247,905. THERMOSTATICALLY-CONTROLLED HEAT REGULATORS. THERMATROL MANUFACTURING CO., Springfield, Mass.
Filed March 26, 1928. Serial No. 263,793. PUBLISHED JULY 31, 1928. Class 26.

247,906. EDUCATIONAL NUMERICAL PUZZLES. MARTIN C. LARSEN, Los Angeles, Calif.
Filed March 19, 1928. Serial No. 263,410. PUBLISHED JULY 24, 1928. Class 22.

247,907. ENAMEL AND OIL PAINT. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed May 26, 1928. Serial No. 267,049. PUBLISHED JULY 24, 1928. Class 16.

247,908. MAGAZINE SUPPLEMENT. THE JACOBSEN PUBLISHING COMPANY, Chicago, Ill.
Filed May 25, 1928. Serial No. 266,995. PUBLISHED JULY 31, 1928. Class 38.

247,909. GUMMING MACHINES, ROLL-GUMMING MACHINES, BOX-STRIPPING MACHINES, ETC. NEW JERSEY MACHINE CORPORATION, Hoboken, N. J.
Filed May 24, 1928. Serial No. 266,945. PUBLISHED JULY 31, 1928. Class 23.

247,910. ICE CREAM. NATIONAL ICE CREAM COMPANY, Louisville, Ky.
Filed May 24, 1928. Serial No. 266,944. PUBLISHED JULY 24, 1928. Class 46.

247,911. PRETZELS. PERFECT FOODS, INC., Lansdale, Pa.
Filed May 22, 1928. Serial No. 266,828. PUBLISHED JULY 24, 1928. Class 46.

247,912. CLINICAL THERMOMETERS. THE R. F. CORP., Boston, Mass.
Filed May 23, 1928. Serial No. 266,883. PUBLISHED JULY 24, 1928. Class 44.

247,913. MALTLESS CARBONATED BEVERAGES SOLD AS SOFT DRINKS. SUPREME BEVERAGE CO., Chicago, Ill.
Filed May 22, 1928. Serial No. 266,837. PUBLISHED JULY 31, 1928. Class 45.

247,914. WAFER ROLLS FILLED WITH PEANUT BUTTER. BENJAMIN F. GOODWIN, doing business as Gooby-Sticks Corporation, New York, N. Y.
Filed May 22, 1928. Serial No. 266,806. PUBLISHED JULY 31, 1928. Class 46.

247,915. HEATING APPARATUS FOR USE IN THE INDUSTRIAL ARTS. THE SURFACE COMBUSTION COMPANY, INC., Toledo, Ohio.
Filed May 21, 1928. Serial No. 266,767. PUBLISHED JULY 31, 1928. Class 34.

247,916. BASE-METAL TRUCK-CAR AND SHIPPING-CASE SEALS, SEALS FOR CONTAINERS AND PACKAGES, AND SEALS FOR TAGS. E. J. BROOKS AND COMPANY, New York, N. Y.
Filed May 19, 1928. Serial No. 266,644. PUBLISHED JULY 31, 1928. Class 25.

247,917. LINOTYPE-MATRIX CLEANER. WILLIAM DUNKLIN, doing business as The Klindun Company, New York, N. Y.
Filed May 21, 1928. Serial No. 266,719. PUBLISHED JULY 31, 1928. Class 4.

247,918. CLEANSING POWDER FOR ARTIFICIAL TEETH. B. T. BABBITT, INC., New York, N. Y.
Filed May 21, 1928. Serial No. 266,701. PUBLISHED JULY 31, 1928. Class 4.

247,919. PAINTERS' SIZING COMPOSITIONS. HERVÉ, HERVÉ & HERVÉ, Paris, France.
Filed May 19, 1928. Serial No. 266,662. PUBLISHED JULY 31, 1928. Class 16.

247,920. PREPARED FOOD FOR MEAT-EATING ANIMALS. SWIFT AND COMPANY, Chicago, Ill.
Filed May 18, 1928. Serial No. 266,631. PUBLISHED JULY 24, 1928. Class 46.

247,921. MALT SYRUP FOR FOOD PURPOSES. SCHOENHOFEN COMPANY, Chicago, Ill.
Filed May 18, 1928. Serial No. 266,625. PUBLISHED JULY 17, 1928. Class 46.

247,922. GAME APPARATUS IN WHICH A COIN, CHECK, OR OTHER PROJECTIBLE OBJECT IS EMPLOYED. ADVANCE MACHINE COMPANY, Chicago, Ill.
Filed May 18, 1928. Serial No. 266,571. PUBLISHED JULY 24, 1928. Class 22.

247,923. FINGER RINGS. THE MELMS MANUFACTURING CO., INC., Detroit, Mich.
Filed June 4, 1928. Serial No. 267,436. PUBLISHED JULY 31, 1928. Class 28.

247,924. STEREOTYPE MATS. C. F. BURGESS LABORATORIES, INC., Madison, Wis.
Filed June 4, 1928. Serial No. 267,404. PUBLISHED JULY 31, 1928. Class 37.

247,925. FISHING RODS. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass.
Filed January 28, 1928. Serial No. 260,838. PUBLISHED JULY 24, 1928. Class 22.

247,926. FISHING RODS. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass.
Filed January 28, 1928. Serial No. 260,837. PUBLISHED JULY 24, 1928. Class 22.

247,927. FISHING RODS. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass.
Filed January 28, 1928. Serial No. 260,836. PUBLISHED JULY 24, 1928. Class 22.

247,928. FISHING RODS. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass.
Filed January 28, 1928. Serial No. 260,835. PUBLISHED JULY 24, 1928. Class 22.

247,929. FISHING RODS. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass.
Filed January 28, 1928. Serial No. 260,834. PUBLISHED JULY 24, 1928. Class 22.

247,930. FISHING RODS. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass.
Filed January 28, 1928. Serial No. 260,833. PUBLISHED JULY 31, 1928. Class 22.

247,931. PETROLEUM PRODUCTS—NAMELY, GASOLINE, KEROSENE, LUBRICATING OILS, AND LUBRICATING GREASES. WESTERN OIL & REFINING COMPANY, Los Angeles, Calif.
Filed January 18, 1928. Serial No. 260,301. PUBLISHED JULY 24, 1928. Class 15.

247,932. HAIR-WAVING MACHINES, PROTECTORS, AND PERMANENT-WAVING PADS FOR USE THEREWITH. PACIFIC HAIR GOODS CO., INC., San Francisco, Calif.
Filed January 17, 1928. Serial No. 260,235. PUBLISHED JULY 31, 1928. Class 44.

247,933. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. STAIGER & SONS, New York, N. Y.
Filed January 14, 1928. Serial No. 260,147. PUBLISHED JULY 24, 1928. Class 28.

247,934. CHIROPRACTIC ADJUSTING TABLES. C. H. JONES, doing business as Champion Table Co., Davenport, Iowa.
Filed January 3, 1928. Serial No. 259,630. PUBLISHED MARCH 20, 1928. Class 44.

247,935. SILVER FLATWARE. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y.
Filed November 3, 1927. Serial No. 257,023. PUBLISHED JULY 24, 1928. Class 28.

247,936. TOY WAGONS. B-1 TRADE BUILDERS, Chicago, Ill.
Filed October 28, 1927. Serial No. 256,708. PUBLISHED JULY 31, 1928. Class 22.

247,937. STRINGED MUSICAL INSTRUMENTS AND PARTS THEREOF, BEING IN THE NATURE OF A BANJO OR SIMILAR INSTRUMENT AND ADAPTED TO BE PLAYED BY PICKING OR PLUCKING THE STRINGS THEREOF. BEE JAY PRODUCTS CO., INC., Long Island City, N. Y.
Filed October 10, 1927. Serial No. 255,836. PUBLISHED JULY 24, 1928. Class 36.

247,938. ELECTRIC BURGLAR ALARMS AND ELECTRIC-BURGLAR-ALARM SYSTEMS. PAUL C. BUTTE, doing business as Butte Electric and Manufacturing Company, San Francisco, Calif.
Filed October 8, 1927. Serial No. 255,793. PUBLISHED JANUARY 10, 1928. Class 21.

247,939. FUEL OIL. AMERICAN COALINOIL CORPORATION, New York, N. Y.
Filed August 30, 1927. Serial No. 254,119. PUBLISHED JULY 17, 1928. Class 15.

247,940. FINGER RINGS. ISADORE BEHRSTOCK, Los Angeles, Calif.
Filed June 21, 1927. Serial No. 250,832. PUBLISHED SEPTEMBER 6, 1927. Class 28.

247,941. ELECTRIC BATTERIES—VIZ, FLASHLIGHT BATTERIES, RADIO AND WIRELESS BATTERIES, DRY CELLS, AND MULTIPLE BATTERIES MADE FROM DRY CELLS, AND FLASHLIGHT CASES. BRIGHT STAR BATTERY CO., Hoboken, N. J.
Filed June 16, 1927. Serial No. 250,595. PUBLISHED SEPTEMBER 20, 1927. Class 21.

247,942. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. SIGMA SIGMA SIGMA, Woodstock, Va.
Filed May 19, 1927. Serial No. 249,241. PUBLISHED JULY 24, 1928. Class 28.

247,943. ALLOYS OR CUTTING METAL IN VARIOUS SHAPES. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed June 2, 1928. Serial No. 267,357. PUBLISHED JULY 24, 1928. Class 14.

247,944. ALLOYS OR CUTTING METAL IN VARIOUS SHAPES. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed June 2, 1928. Serial No. 267,356. PUBLISHED JULY 24, 1928. Class 14.

247,945. JEWELRY CONSISTING OF WATCH CHAINS, NECK CHAINS, KEY CHAINS, AND OTHER ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. CORBETT & BERTOLONE, INC., New York, N. Y.
Filed May 29, 1928. Serial No. 267,185. PUBLISHED JULY 24, 1928. Class 28.

247,946. ELECTRICAL INSECT TRAPS OR ELECTRICAL EXTERMINATORS. INSECT ELECTROCUTOR COMPANY, Spokane, Wash.
Filed May 28, 1928. Serial No. 267,124. PUBLISHED JULY 24, 1928. Class 21.

247,947. VIBRATING MASSAGE INSTRUMENTS. ANDREWS CRANE CORPORATION, doing business as Vibrating Roller Co., New York, N. Y.
Filed May 28, 1928. Serial No. 267,108. PUBLISHED JULY 31, 1928. Class 44.

247,948. CONDUIT FITTINGS, OUTLET BOXES, AND COVERS. THE RATTAN MANUFACTURING CO., New Haven, Conn.
Filed May 25, 1928. Serial No. 267,011. PUBLISHED JULY 31, 1928. Class 21.

247,949. SILVER-PLATED FLATWARE, HOLLOW WARE, AND CUTLERY. ONEIDA COMMUNITY LIMITED, Oneida, N. Y.
Filed May 25, 1928. Serial No. 267,008. PUBLISHED JULY 31, 1928. Class 28.

247,950. PENCIL TABLETS, COMPOSITION BOOKS, NOTEBOOKS, SPELLING TABLETS, MUSIC TABLETS, AND LOOSE-LEAF BINDERS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed May 24, 1928. Serial No. 266,949. PUBLISHED JULY 31, 1928. Class 37.

247,951. MANICURE SUPPLIES, CORN KNIVES, AND SIMILAR ARTICLES. J. A. HENCKELS, Solingen, Germany.
Filed May 24, 1928. Serial No. 266,932. PUBLISHED JULY 31, 1928. Class 44.

247,952. GASOLINE AND OTHER FUEL OILS AND LUBRICATING OILS AND GREASES. BAR-STONE OIL COMPANY, Chippewa Falls, Wis.
Filed May 24, 1928. Serial No. 266,908. PUBLISHED JULY 24, 1928. Class 15.

247,953. REEDS FOR CLARINETS, OBOES, SAXOPHONES, AND SIMILAR MUSICAL INSTRUMENTS. SIMSON & FREY, INC., New York, N. Y.
Filed May 23, 1928. Serial No. 266,892. PUBLISHED JULY 24, 1928. Class 38.

247,954. CLINICAL THERMOMETERS. THE R. F. CORP., Boston, Mass.
Filed May 23, 1928. Serial No. 266,882. PUBLISHED JULY 31, 1928. Class 44.

247,955. PORTABLE ELECTRIC DRILLS. THE STANLEY WORKS, New Britain, Conn.
Filed May 22, 1928. Serial No. 266,835. PUBLISHED JULY 24, 1928. Class 21.

247,956. TOILET PAPER. CAPITAL PAPER COMPANY, Indianapolis, Ind.
Filed May 21, 1928. Serial No. 266,714. PUBLISHED JULY 31, 1928. Class 37.

247,957. BRACELETS, FINGER RINGS, BROOCHES, PINS, SAUTOIRS, NECKLACES, PENDANTS, LAVALIERES, BELT BUCKLES, NECK CHAINS, WATCH CHAINS, KEY CHAINS, BUTTONS, AND HAIR ORNAMENTS. ARNOLD, OCHS CO., Providence, R. I.
Filed May 19, 1928. Serial No. 266,638. PUBLISHED JULY 24, 1928. Class 28.

247,958. WATCH MOVEMENTS, WATCHCASES MADE OF OR PLATED WITH PRECIOUS METAL, WATCH PARTS, AND WATCHES. VIATTE & GUENIN, Bienne, Switzerland, and New York, N. Y.
Filed May 17, 1928. Serial No. 266,568. PUBLISHED JULY 24, 1928. Class 27.

247,959. CERTAIN NAMED PAINT PRODUCTS. THE OHIO VARNISH COMPANY, Cleveland, Ohio.
Filed May 17, 1928. Serial No. 266,553. PUBLISHED JULY 24, 1928. Class 16.

247,960. WATCHES AND WATCHCASES. SOUTH BEND WATCH CO., South Bend, Ind.
Filed May 16, 1928. Serial No. 266,492. PUBLISHED JULY 24, 1928. Class 27.

247,961. WATCHES AND WATCHCASES. SOUTH BEND WATCH CO., South Bend, Ind.
Filed May 16, 1928. Serial No. 266,491. PUBLISHED JULY 24, 1928. Class 27.

247,962. WATCHES AND WATCHCASES. SOUTH BEND WATCH CO., South Bend, Ind.
Filed May 16, 1928. Serial No. 266,489. PUBLISHED JULY 24, 1928. Class 27.

247,963. ARTIFICIAL BAIT. WILLIAM M. JORDAN, Birmingham, Ala.
Filed May 14, 1928. Serial No. 266,380. PUBLISHED JULY 24, 1928. Class 22.

247,964. ARTIFICIAL BAIT. WILLIAM M. JORDAN, Birmingham, Ala.
Filed May 14, 1928. Serial No. 266,379. PUBLISHED JULY 24, 1928. Class 22.

247,965. LACQUERS. S. C. JOHNSON & SON, Racine, Wis.
Filed May 14, 1928. Serial No. 266,378. PUBLISHED JULY 24, 1928. Class 16.

247,966. MAGAZINES AND MAGAZINE SECTIONS PUBLISHED MONTHLY. THE JACOBSEN PUBLISHING COMPANY, Chicago, Ill.
Filed May 14, 1928. Serial No. 266,377. PUBLISHED JULY 31, 1928. Class 38.

247,967. DOLLS. GEO. BORGFELDT & CO., New York, N. Y.
Filed January 28, 1928. Serial No. 260,795. PUBLISHED JULY 24, 1928. Class 22.

247,968. FRESH VEGETABLES—NAMELY, LETTUCE, TOMATOES, CAULIFLOWER, AND SWEET POTATOES; FRESH MELONS—NAMELY, CANTALOUPES. EMERY & KAVANAGH CO., Los Angeles, Calif.
Filed January 18, 1928. Serial No. 260,263. PUBLISHED JULY 31, 1928. Class 46.

247,969. MACARONI, SPAGHETTI, AND NOODLES MADE OF SEMOLINA. JOHN R. FISCHER, doing business as Pacific Macaroni Co., Los Angeles, Calif.
Filed January 11, 1928. Serial No. 259,951. PUBLISHED JULY 24, 1928. Class 46.

247,970. CANDY. HEIT-MILLER-LAU COMPANY, Fort Wayne, Ind.
Filed December 31, 1927. Serial No. 259,551. PUBLISHED JULY 31, 1928. Class 46.

247,971. LIVESTOCK FOODS. JOHN W. ESHELMAN & SONS, Lancaster, Pa.
Filed December 31, 1927. Serial No. 259,538. PUBLISHED JUNE 5, 1928. Class 46.

247,972. ROLLER SKATES. KOKOMO STAMPED METAL CO., Kokomo, Ind.
Filed December 28, 1927. Serial No. 259,412. PUBLISHED JULY 24, 1928. Class 22.

247,973. HAMES, HAME TRIMMINGS, BREAST CHAINS, BREAST CHAIN SNAPS, AND HEEL CHAINS. U. S. HAME COMPANY, Buffalo, N. Y.
Filed December 16, 1927. Serial No. 259,031. PUBLISHED FEBRUARY 7, 1928. Class 3.

247,974. CANNED VEGETABLES, CANNED FRUITS, CANNED SOUP; EVAPORATED MILK, ROASTED COFFEE, MACARONI, SHELL MACARONI, AND SPAGHETTI. MONTGOMERY WARD & CO. INCORPORATED, Chicago, Ill.
Filed December 8, 1927. Serial No. 258,644. PUBLISHED JULY 24, 1928. Class 46.

247,975. FRESH DECIDUOUS FRUITS. WHITES FRUIT AGENCY, INCORPORATED, Seattle, Wash.
Filed December 6, 1927. Serial No. 258,546. PUBLISHED JULY 31, 1928. Class 46.

247,976. FRESH DECIDUOUS FRUITS. WHITES FRUIT AGENCY, INCORPORATED, Seattle, Wash.
Filed December 6, 1927. Serial No. 258,545. PUBLISHED JULY 31, 1928. Class 46.

247,977. SMOKED PORK PRODUCTS—NAMELY, HAMS, BACON, PORK SHOULDERS, BACON SQUARES, HAM ROLL, SLICED BACON, CORNED BEEF, SMOKED DRIED BEEF, BOILED HAMS, BAKED HAMS, ROASTED HAMS, COOKED PORK LOIN, FRANKFURTERS, BOLOGNA, PORK SAUSAGE, POLISH SAUSAGE, BLOOD SAUSAGE, HEADCHEESE, LIVER SAUSAGE, MINCED HAM, PRESSED HAM, MEAT LOAF, AND FRESH PORK CUTS. ARPEAKO, INC., Rochester, N. Y.
Filed December 3, 1927. Serial No. 258,390. PUBLISHED JULY 24, 1928. Class 46.

247,978. HOUSEHOLD CLEANSER CONSISTING PRINCIPALLY OF PULVERIZED SAPONACEOUS CLAY. M. O. WILKINS CORPORATION, New York, N. Y.
Filed October 15, 1927. Serial No. 256,151. PUBLISHED JULY 31, 1928. Class 4.

247,979. SOFT SOAP USED AS A WATERLESS CLEANSER FOR CLEANING PAINTED WOODWORK, TILING, ETC., AND ALSO FOR A SOAP IN POWDERED FORM FOR CLEANING PAINTED WOODWORK, TILING, ETC. THE WIGGINS CHEMICAL CO., INC., Cincinnati, Ohio.
Filed October 13, 1927. Serial No. 256,065. PUBLISHED FEBRUARY 14, 1928. Class 4.

247,980. SPICE MIXTURE FOR SEASONING PURPOSES. AVO MANHATTAN SPICE CO. INC., Jersey City, N. J.
Filed September 10, 1927. Serial No. 254,567. PUBLISHED JULY 24, 1928. Class 46.

247,981. LUBRICATING OILS. GEORGE FITZHARDINGE ROSE, London, England.
Filed August 20, 1927. Serial No. 253,771. PUBLISHED JUNE 5, 1928. Class 15.

247,982. VENDING MACHINES. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., and Ilion and New York, N. Y.
Filed August 6, 1927. Serial No. 253,162. PUBLISHED JULY 31, 1928. Class 23.

247,983. FROZEN CONFECTION. JOHN B. CARTER, doing business as Essential Ice Cream Co., New York, N. Y.
Filed August 6, 1927. Serial No. 253,137. PUBLISHED JUNE 12, 1928. Class 46.

247,984. LIQUID CLEANSER FOR RUBBER ROLLS, PARTICULARLY FOR THE PLATEN OF TYPEWRITERS, ETC. JOHN DI CIO, doing business as Ros Roi Co., Norristown, Pa.
Filed July 19, 1927. Serial No. 252,257. PUBLISHED JULY 31, 1928. Class 4.

247,985. CANNED FRUITS, CANNED VEGETABLES, TOMATO KETCHUP, CHILI SAUCE, AND FRUIT PRESERVES. NEW YORK CANNERS, INC., Rochester, N. Y.
Filed June 28, 1927. Serial No. 251,236. PUBLISHED JULY 24, 1928. Class 46.

247,986. CAKE. CONTINENTAL BAKING COMPANY, Wilmington, Del., and New York, N. Y.
Filed June 17, 1927. Serial No. 250,679. PUBLISHED JULY 24, 1928. Class 46.

247,987. BELTING, INCLUDING CONVEYOR BELTING AND TUBULAR BELTING OF COTTON, LINEN, HEMP, AND RUBBER, AND COTTON, LINEN, AND HEMP COATED OR IMPREGNATED WITH STABILIZED RUBBER LATEX; MACHINERY PACKING COMPOSED OF TEXTILE FABRIC IMPREGNATED WITH STABILIZED RUBBER LATEX; HOSE OF COTTON, LINEN, OR HEMP, AND COTTON OR LINEN OR HEMP IMPREGNATED WITH STABILIZED RUBBER LATEX; NONMETALLIC TIRES OF COTTON, LINEN, AND HEMP, AND COTTON, LINEN, AND HEMP IMPREGNATED WITH STABILIZED RUBBER LATEX; PIPING OF RUBBER AND TEXTILE FABRIC IMPREGNATED WITH RUBBER. SAFETY GLASS AND XETAL PRODUCTS, LIMITED, Stapleford, England.
Filed June 2, 1927. Serial No. 249,928. PUBLISHED JULY 24, 1928. Class 35.

247,988. PAPRIKA. HIJO DE JUAN J. NAVARRO, Espinardo-Murcia, Spain, and New York, N. Y.
Filed May 24, 1927. Serial No. 249,477. PUBLISHED JULY 24, 1928. Class 46.

247,989. CANDIES. ANNA BROMBERG, New York, N. Y., assignor, by mesne assignments, to Robert R. Heywood, jr.
Filed May 14, 1927. Serial No. 248,985. PUBLISHED February 14, 1928. Class 46.

247,990. COUPON BOOKS AND COUPONS. PUBLIX THEATRES CORPORATION, New York, N. Y.
Filed May 12, 1927. Serial No. 248,928. PUBLISHED JULY 31, 1928. Class 38.

247,991. FRESH VEGETABLES. FRANK GORE, Los Angeles, Calif.
Filed April 6, 1927. Serial No. 247,017. PUBLISHED JULY 31, 1928. Class 46.

247,992. AIRPLANES AND STRUCTURAL PARTS. BOEING AIRPLANE COMPANY, Seattle, Wash.
Filed January 17, 1927. Serial No. 242,945. PUBLISHED JULY 31, 1928. Class 19.

247,993. TOMATO CATSUP, CHILI SAUCE, CHOW-CHOW, PICKLE RELISHES, PREPARED MUSTARD, CANNED TOMATO PURÉE, PICKLES, AND VINEGAR. THE HARRAUER COMPANY, Toledo, Ohio.
Filed September 13, 1926. Serial No. 237,169. PUBLISHED JUNE 12, 1928. Class 46.

247,994. CANE AND MAPLE SYRUP. CRIMSON RAMBLER PRODUCTS CORPORATION, Portland, Oreg.
Filed August 16, 1926. Serial No. 236,010. PUBLISHED DECEMBER 14, 1926. Class 46.

247,995. SKIS, TOBOGGANS, SNOWSHOES, HOCKEY STICKS, AND GOLF CLUBS. NORTHLAND SKI MANUFACTURING CO., St. Paul, Minn.
Filed March 30, 1925. Serial No. 211,865. PUBLISHED JULY 24, 1928. Class 22.

247,996. SAUSAGE, BACON, HAMS, CORNED BEEF, BACON BELLIES, AND CALAS. PITTSBURGH PROVISION AND PACKING COMPANY, Pittsburgh, Pa.
Filed May 13, 1924. Serial No. 196,966. PUBLISHED JULY 22, 1924. Class 46.

247,997. PRECIOUS STONES AND JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. POWERS & MAYER, INC., New York, N. Y.
Filed August 14, 1928. Serial No. 271,157. Class 28.

247,998. HAM. THE ZEHNER PACKING COMPANY, Bellevue, Ohio.
Filed May 16, 1928. Serial No. 266,504. PUBLISHED JULY 17, 1928. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

247,999. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OZARK FRIED PIE SHOPE, Kansas City, Mo. Filed June 23, 1928. Serial No. 268,557.

OZARK FRIED PIE

For Fried Pies.
Claims use since Feb. 1, 1926.

248,000. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WELLSTON RADIO CORPORATION, St. Louis, Mo. Filed Apr. 19, 1928. Serial No. 265,353.

FORD RADIO

For Radio Receiving Sets, Radio Loud Speakers, and Radio Inductance Coils.
Claims use since November, 1924.

248,001. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE J. S. BROWN MERCANTILE COMPANY, Denver, Colo. Filed Mar. 31, 1928. Serial No. 264,078.

JORDAN

For Canned Fruits, Vegetables, and Berries; Table Syrup, Cornstarch, Jelly Powder, Olives, Peanut Butter, Jelly, and Jams.
Claims use since May, 1924.

248,002. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KRESTINE KNUDSEN, Oakland, Calif. Filed Jan. 23, 1928. Serial No. 260,510.

THE OLD COUNTRY DOLLS

For Dolls.
Claims use since July 1, 1927.

248,003. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PIERRE AUBRY, doing business as Laboratoires P. Aubry, Paris, France. Filed Aug. 31, 1927. Serial No. 254,163.

QUINBY

For Ampoules for Intramuscular Injections Used for the Treatment of Syphilis, Yaws, Diseases Caused by Trypanosoma, Malaria, and Infectious Diseases.
Claims use since Jan. 6, 1922.

248,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. H. BAKER, INC., Red Hook, N. Y. Filed July 27, 1927. Serial No. 252,582.

W. H. Baker's Almond-Bar

For Sweet Milk Chocolate.
Claims use since about June 2, 1927.

248,005. (CLASS 10. FERTILIZERS.) THE ALLIANCE FERTILIZER COMPANY, Alliance, Ohio. Filed Apr. 30, 1927. Serial No. 248,211.

OLD RELIABLE

For Fertilizer.
Claims use since the spring of 1909.

248,006. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ROCHESTER MACHINE SCREW COMPANY, Rochester, N. Y. Filed Apr. 18, 1927. Serial No. 247,639.

NEVABUST

For Screws, Bolts, and Studs.
Claims use since Mar. 18, 1927.

248,007. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHWESTERN DRUG COMPANY, Minneapolis, Minn. Filed Mar. 3, 1927. Serial No. 245,158.

HYETEST

For Carbolic Acid; Ammonia, Aromatic Spirits; Bay Rum; Cascara, Aromatic Fluid Extract; Essence of Peppermint, Witch-Hazel Extract, Glycerine, Glycerine and Rose Water; Glycerine, Rose Water, and Benzoin; Liniment, Chloroform; Larkspur Lotion, Zinc-Oxide Ointment, Cold-Pressed Castor Oil, Camphorated Oil, Cod-Liver Oil, Medicinal Mineral Oil, Sweet Oil, Antiseptic Solution; Cresol, Compound Solution; Antiseptic Alkaline Solution, Spirits of Camphor, Spirits of Niter; Syrup, White-Pine Compound; Tincture Arnica, Tincture Iodine, Boric-Acid Powder, Boric-Acid Crystals, Acid Oxalic Crystals, Alum Powder, Alum Lump, Borax, Licorice Compound, Cream Tartar, Flaxseed Meal, Flaxseed Whole, Senna Leaves, Henna Leaves, Moth Balls, Mustard, Orris Root, Epsom Salt, Bath Salt, Rochelle Salts, Saltpeter, Sodium Bicarbonate, Sodium Fluoride, Sublimed Flowers of Sulphur, Turmeric Powder, White Hellebore, Aspirin Tablets, Hinkle's Cascara Compound, Shaving Lotion, Dandruff Remedy, Hair Tonic, Almond Lotion, Toilet Lotion, Hand Lotion, Liquid Glass, Vaginal Antiseptic Powder, White Liniment, Dibrom-Oxymercuri-Fluorex Scein Solution, Tooth Paste, Citrate of Magnesia, Oil of Cloves.
Claims use since on or about Nov. 1, 1926.

248,008. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PETER GRAY & SONS INC., Cambridge, Mass. Filed Dec. 7, 1925. Serial No. 224,331.

GRAY

BOSTON

For Railway-Signal Electric Lanterns.
Claims use since Mar. 1, 1909.

TRADE-MARK REGISTRATIONS RENEWED

31,051. COMPRESSED YEAST. Registered December 28, 1897. FLEISCHMANN & Co. Renewed December 28, 1927, to The Fleischmann Company, Cincinnati, Ohio, and New York, N. Y., a Corporation of Ohio, successor.

31,052. COMPRESSED YEAST. Registered December 28, 1897. FLEISCHMANN & Co. Renewed December 28, 1927, to The Fleischmann Company, Cincinnati, Ohio, and New York, N. Y., a Corporation of Ohio, successor.

31,292. A REMEDY FOR COLDS, THROAT AFFECTIONS, AND INTERNAL AND EXTERNAL PAINS. Registered February 22, 1898. THE BROWN MEDICINE CO., Erie, Pa. Renewed February 22, 1928, to S. C. Wells & Company, Le Roy, N. Y., a Corporation of New York, successor.

71,212. REMEDIES FOR ASTHMA, CATARRH, BRONCHITIS, HAY FEVER, AND COLDS. Registered November 10, 1908. PEEK & VELSOR. Renewed November 10, 1928, to Peek & Velsor, Inc., New York, N. Y., a Corporation of New Jersey, successor.

71,364. CANNED OYSTERS. Registered November 24, 1908. A. BOOTH AND COMPANY, Chicago, Ill.; Baltimore, Md.; St. Paul, Duluth, and Minneapolis, Minn.; St. Louis, Mo.; Louisville, Ky.; Omaha, Nebr.; Indianapolis, Ind.; and Port Arthur, Canada. Renewed November 24, 1928, to Booth Fisheries Company, Chicago, Ill., a Corporation of Delaware, successor.

71,529. CERTAIN CLOTHING. Registered December 1, 1908. LEBANON MILL CO., Pawtucket, R. I., a Corporation of Rhode Island. Renewed December 1, 1928.

71,567. COFFEE, TEA, FLAVORING EXTRACTS, AND SPICES. Registered December 1, 1908. EDMUND R. WEBSTER. Renewed December 1, 1928, to The Canby Ach & Canby Co., Cincinnati, Ohio, a Corporation of Ohio, successor.

71,817. CERTAIN FOODS. Registered December 15, 1908. THE NEUMAN & SCHWIERS CO. INC., New York, N. Y., a Corporation of New York. Renewed December 15, 1928.

71,992. CERTAIN ELECTRICAL SUPPLIES. Registered December 29, 1908. CROUSE-HINDS COMPANY, Syracuse, N. Y., a Corporation of New York. Renewed December 29, 1928.

72,077. BLENDED COFFEE. Registered December 29, 1908. THE WOOLSON SPICE COMPANY, Toledo, Ohio, a Corporation of Ohio. Renewed December 29, 1928.

72,204. CIGARS. Registered January 5, 1909. FRANK G. SCHMITT. Renewed January 5, 1929, to Frank G. Schmitt Co., Henderson, Ky., a Corporation of Kentucky, assignee.

72,436. AUTOMOBILES. Registered January 26, 1909. OVERLAND AUTOMOBILE COMPANY, Indianapolis, Ind. Renewed January 26, 1929, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio, assignee by mesne assignments.

72,445. CATHARTIC PILLS. Registered January 26, 1909. THE BLACKBURN PRODUCTS COMPANY, Dayton, Ohio, a Corporation of Ohio. Renewed January 26, 1929.

LABELS

REGISTERED OCTOBER 9, 1928.

34,684.—*Title:* ANN HOWE SHOE FOR WOMEN. For Shoes. ARONSON BROS. SHOE CO. INC., Boston, Mass. Published June 26, 1927.

34,685.—*Title:* NATURELLE FURS OF SHELTON LOOMS. For Pile Fabrics in the Piece. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Published July 14, 1928.

34,686.—*Title:* INSURED. For Padlocks. BRIGGS AND STRATTON CORPORATION, Milwaukee, Wis. Published July 25, 1928.

34,687.—*Title:* T. S. F. For Insecticide or Preparation to Kill Lice. BURRELL-DUGGER COMPANY, Indianapolis, Ind. Published July 24, 1928.

34,688.—*Title:* CARDINAL BRAND. For Fresh Tomatoes. FLORIDA FRUIT GROWERS CORPN., Dania, Fla. Published May 21, 1928.

34,689.—*Title:* BROOKLYN BRIDGE. For an Abdominal Supporter. LEWIS A. FRITSCH, Cincinnati, Ohio. Published June 15, 1928.

34,690.—*Title:* GENERAL. For a General House Cleanser. ABRAHAM SCHACHNA FRYMAN, doing business as Fryman Chemical Works and A E S Company, Chicago, Ill. Published February 20, 1928.

34,691.—*Title:* SWEETHEART. For Cake. THE JAMES A. HARPER SUPPLY COMPANY, Kansas City, Mo. Published May 15, 1928.

34,692.—*Title:* JOSEPH'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published October 29, 1927.

34,693.—*Title:* JAMES McCREERY & CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 30, 1928.

34,694.—*Title:* THE HUB. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 7, 1928.

34,695.—*Title:* S. KANN SONS CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 27, 1928.

34,696.—*Title:* TOLEDO'S STORE FOR MEN. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 12, 1927.

34,697.—*Title:* McKELVEY'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 28, 1928.

34,698.—*Title:* THE STORE OF QUALITY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 2, 1928.

34,699.—*Title:* DAVIDSON BROS. COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 28, 1928.

34,700.—*Title:* WISE, SMITH & COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 5, 1928.

34,701.—*Title:* SNYDER & BERMAN INCORPORATED. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 7, 1928.

34,702.—*Title:* BOSTON SHOE CO. INCORPORATED. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 1, 1928.

34,703.—*Title:* S AND W KOMAROFF'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 15, 1928.

34,704.—*Title:* KATZ & LEVY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 16, 1928.

34,705.—*Title:* EMBRY & CO. INCORPORATED. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 1, 1928.

34,706.—*Title:* SOMMER & KAUFMANN. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 1, 1928.

34,707.—*Title:* BOSTON BOOTERY INCORPORATED. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 1, 1928.

34,708.—*Title:* THE GUARANTEE SHOE COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 12, 1928.

34,709.—*Title:* MARTIN'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 18, 1928.

34,710.—*Title:* BOSTON SHOE STORE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 18, 1928.

34,711.—*Title:* RANDALL & SIMMERS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 28, 1928.

34,712.—*Title:* SUTTON SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 13, 1928.

34,713.—*Title:* STONE'S BOOTERIE INC. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 17, 1928.

34,714.—*Title:* THE HECHT CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 11, 1928.

34,715.—*Title:* THE DAVIS-SMITH BOOTERIE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 23, 1928.

34,716.—*Title:* BOSTON SHOE CO. INCORPORATED. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 1, 1928.

34,717.—*Title:* MARKS ISAACS CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 28, 1928.

34,718.—*Title:* BETT MAID. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 16, 1928.

34,719.—*Title:* THE FRENCH SHOPPE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 1, 1928.

34,720.—*Title:* ARROW SHOE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 10, 1928.

34,721.—*Title:* IDEAL SHOE COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 11, 1928.

34,722.—*Title:* IF IT'S NEW! WE HAVE IT. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 20, 1928.

34,723.—*Title:* KENNEDY-GILLESPIE SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 27, 1928.

34,724.—*Title:* GENUNG'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 12, 1928.

34,725.—*Title:* WOOLF & REYNOLDS INC. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 12, 1928.

34,726.—*Title:* WATTERS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 22, 1928.

34,727.—*Title:* LADY CLAIRE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 8, 1928.

34,728.—*Title:* TAYLOR'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 11, 1928.

34,729.—*Title:* JOSEPH HORNE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 29, 1928.

34,730.—*Title:* BEST SHOE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 10, 1928.

34,731.—*Title:* JULIUS BERNSTEIN. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 26, 1928.

34,732.—*Title:* SCHMIDT'S QUALITY SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 9, 1928.

34,733.—*Title:* SAMTER BROS. CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 6, 1928.

34,734.—*Title:* KATZ. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 27, 1928.

34,735.—*Title:* THE PARISIAN CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 5, 1928.

34,736.—*Title:* BENJAMIN'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 26, 1928.

34,737.—*Title:* CINDERELLA. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 21, 1928.

34,738.—*Title:* WM. COHAN. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 8, 1928.

34,739.—*Title:* STYLES OF TODAY WITH A TOUCH OF TOMORROW. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 31, 1928.

34,740.—*Title:* HANAPEDS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 7, 1928.

34,741.—*Title:* BROWN'S BOOTERIE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 10, 1928.

34,742.—*Title:* RODES-RAPIER CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 16, 1928.

34,743.—*Title:* KINNAMAN & NEAL. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 27, 1928.

34,744.—*Title:* KNOWN FOR SERVICE, QUALITY AND LOW PRICES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 22, 1928.

34,745.—*Title:* HASSEL'S SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 1, 1928.

34,746.—*Title:* J—J. For Shoe Dressing. JOHN DAVID JOHNSON, Camas, Wash. Published June 29, 1928.

34,747.—*Title:* BODY CELL SALTS (SOLUTION "A"). For Medicinal Preparation. KIRKPATRICK LABORATORIES, INC., Portland, Oreg. Published June 20, 1928.

34,748.—*Title:* BODY CELL SALTS (SOLUTION B.) For Medicinal Preparation. KIRKPATRICK LABORATORIES, INC., Portland, Oreg. Published June 20, 1928.

34,749.—*Title:* BODY CELL SALTS (SOLUTION C.) For Medicinal Preparation. KIRKPATRICK LABORATORIES, INC., Portland, Oreg. Published June 20, 1928.

34,750.—*Title:* BODY CELL SALTS, (SOLUTION D.) For Medicinal Preparation. KIRKPATRICK LABORATORIES, INC., Portland, Oreg. Published June 20, 1928.

34,751.—*Title:* SPEEDWAY PATCH. For Tube-Patch Kits. WILLIAM ROY LANDSBERG, doing business as Wm. R. Landsberg Rubber Co., Waukesha, Wis. Published July 21, 1928.

34,752.—*Title:* NURO TRIPLE TONIC. For Reconstructive Tonic. LEON MORRISON, doing business as The Russian Drug Manufacturing Co., Buffalo, N. Y. Published November 7, 1927.

34,753.—*Title:* EVEREADY RADIO "B" BATTERY. For Electric Batteries. NATIONAL CARBON COMPANY, INC., New York, N. Y. Published July 20, 1928.

34,754.—*Title:* PALMER HOUSE. For Pears. THE PALMER CORPORATION, Medford, Oreg., and Chicago, Ill. Published February 15, 1928.

34,755.—*Title:* OLIO D'OLIVA. For Olive Oil. EUGENE J. PETROSEMOLO, New York, N. Y. Published July 15, 1927.

34,756.—*Title:* SUMMER'S FROZEN SUCKERS. For Frozen Water Ices on Stick. PURITY ICE CREAM CO., INC., Newark, N. J. Published August 9, 1928.

34,757.—*Title:* MAYADINE. For a Medical Preparation for Treatment of Arthritis, Neuritis, and Rheumatic Conditions. RESEARCH PRODUCTS COMPANY, Los Angeles, Calif. Published May 10, 1928.

34,758.—*Title:* TABLE QUEEN. For Canned Hominy. SMART & FINAL CO., Wilmington, Calif. Published April 3, 1928.

34,759.—*Title:* S-ULCO BRAND. For Cauliflower. SULLIVAN-ULSTER CAULIFLOWER GROWERS COOPERATIVE, INC., Liberty, N. Y. Published July 16, 1928.

PRINTS

REGISTERED OCTOBER 9, 1928.

11,257.—*Title:* COLLINGBOURNE'S GIFT RIBBON TIE. For Gift Ribbon. COLLINGBOURNE MILLS, INC., Elgin, Ill. Published August 4, 1928.

11,258.—*Title:* SPLENDID RESULTS FROM THIS PLAN. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published August 10, 1928.

11,259.—*Title:* NEW 1928 FANDANGO AUTO SLIP COVERS. For Automobile Upholstery Covers. FANDANGO PRODUCTS OF NEW YORK, INC., New York, N. Y. Published March 1, 1928.

11,260.—*Title:* LEE OVERALLS. For Work Clothes—Namely, Overalls and Jackets. THE H. D. LEE MERCANTILE COMPANY, Kansas City, Mo. Published August 10, 1928.

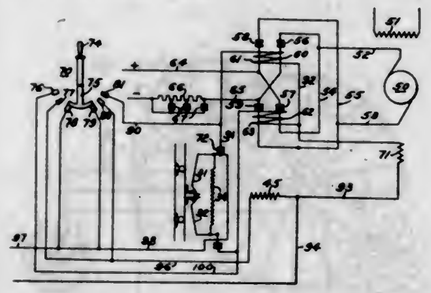
11,261.—*Title:* LEE UNION-ALLS. For Work Clothes—Namely, Button and Buttonless One-Piece Work Garments. THE H. D. LEE MERCANTILE COMPANY, Kansas City, Mo. Published August 10, 1928.

11,262.—*Title:* LEE PLAY SUITS. For Children's Clothes—Namely, Overalls and Button and Buttonless Children's Garments. THE H. D. LEE MERCANTILE COMPANY, Kansas City, Mo. Published August 10, 1928.

REISSUES

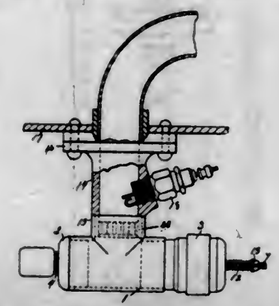
OCTOBER 9, 1928.

17,097. **ELEVATOR.** MILTON BARUCH, Beverly Hills, Calif., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1928. Serial No. 287,827. Original No. 1,580,363, dated Apr. 13, 1926, Serial No. 506,869, filed Oct. 10, 1921. 30 Claims. (Cl. 187—29.)



12. In an electric elevator, the combination of: a car; an electric motor for actuating said car; a controller connected to operate said motor in a forward or in a reverse direction; an operating handle carried in said car by which an operator can set said controller to operate said motor in either direction; a pair of fingers; a strip of flexible flat material attached to said car and passing in proximity to said fingers; a series of projections on said flexible strip each so constituted and placed as to actuate one of said fingers when the car stops a little above a predetermined point and to actuate the other finger when the car stops a little below a predetermined point; means for rendering said fingers inoperative at all times except when said operating handle is in the off position; and means independent of said operating handle by which the actuation of one of said fingers causes said controller to assume a position to move the car down and the actuation of the other finger causes said controller to assume a position to move said car up.

17,098. **GAS HEATER.** FREDERICK M. MINER, Jr., Madison, Wis. Filed Mar. 8, 1927. Serial No. 175,892. Original No. 1,568,610, dated Jan. 5, 1926, Serial No. 746,879, filed Oct. 30, 1924. 4 Claims. (Cl. 122—24.)



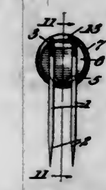
1. In a device of the kind described, a boiler, a coil of pipe disposed therein, a pipe fitting in the form of a T, a head at one end of the top of the T, a sleeve at the opposite end of said top, a valve stem slidably mounted centrally within the top of the T by means of perforated bridges in the head and sleeve, valves at both ends of the stem opening in the same direction, one end being adapted for connection with a source of combustible fluid, and the other end communicating with the atmosphere, a tubular member secured to the stem of the T, a perforated bridge adjacent one end of said member and means at the opposite end connecting it to said coil of pipe, an exhaust fan connected to the other end of the coil, a safety valve interposed between the coil and fan, and means for igniting a combustible mixture supplied through said T before it entera the coil.

17,099. **DOUBLE-POINTED PIN FASTENER.** GEORGE BODEN, GEORGE A. KING, and LYMAN BURTON CHAPMAN, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 23, 1927. Serial No. 193,752. Original No. 1,604,801, dated Oct. 26, 1926, Serial No. 117,841, filed June 22, 1926. 2 Claims. (Cl. 24—150.) (Division A.)



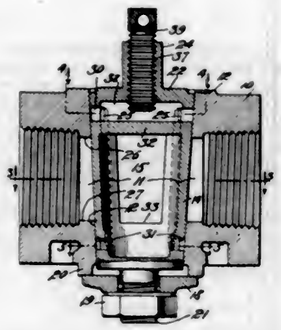
1. A double-pointed pin fastener, having a cap, and a double-pointed pin having its head formed by bending over and humping its looped end and engaging the cap, and an upwardly and outwardly extending prong projecting from the lower edge of the cap between the limbs of the pin.

17,100. **DOUBLE-POINTED PIN FASTENER.** GEORGE BODEN and GEORGE A. KING, Waterbury, Conn. Filed May 23, 1927. Serial No. 193,753. Original No. 1,604,801, dated Oct. 26, 1926, Serial No. 117,841, filed June 22, 1926. 4 Claims. (Cl. 24—150.) (Division B.)



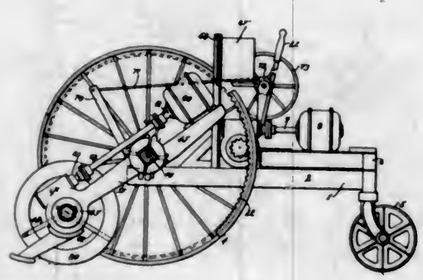
1. A double-pointed pin fastener, having a cap provided with a flanged rim, and a double-pointed pin having its head formed by bending over and humping its looped end and rigidly engaged by the flanged rim of the cap.

17,101. VALVE. SVEN JOHAN NORDSTROM, Oakland, Calif., assignor to Merco Nordstrom Valve Company, San Francisco, Calif., a Corporation of Delaware. Filed Aug. 7, 1928. Serial No. 298,074. Original No. 1,634,722, dated July 5, 1927, Serial No. 115,413, filed June 12, 1926. 7 Claims. (Cl. 251—93.)



1. A valve comprising, a casing having a longitudinal passageway therethrough and a tapered valve seat formed transversely of the passageway, a tapered plug seated in the valve seat and having a hole adapted to register with the passageway, means for holding the plug against its seat, the valve seat being provided with four longitudinal grooves spaced substantially 90° apart extending above and below, respectively, the planes passing through the upper and lower sides of the passageway through the valve seat, the bearing surface of the plug being provided at the larger end of the plug with two transverse grooves lying in the plane passing through the upper ends of the longitudinal grooves and at the smaller end of the plug with two transverse grooves lying in the plane passing through the lower ends of the longitudinal grooves, each pair of transverse grooves being substantially 90° in length and arranged parallel with the hole through the plug, the ends of each pair of transverse grooves being spaced substantially 90° apart, a reservoir in the plug for containing lubricant, connections between the reservoir and one pair of transverse grooves, and means for putting the lubricant in the reservoir under pressure to force it into the grooves.

17,102. SAND-MIXING APPARATUS. HOWARD L. WADSWORTH, Cleveland, Ohio, assignor, by mesne assignments, to R. H. Cleminshaw, Cleveland, Ohio. Filed Apr. 6, 1927. Serial No. 181,582. Original No. 1,566,133, dated Dec. 15, 1925, Serial No. 638,498, filed May 12, 1923. 12 Claims. (Cl. 259—144.)

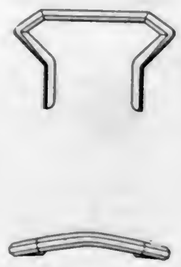


1. In a sand cutter, the combination of a frame, wheels supporting the same, a sand cutting cylinder rotatably mounted in said frame, said cylinder having two series of blades, each terminating closely adjacent to the center of said cylinder, and driving means including a shaft operatively connected to the center of said cylinder between said two series of blades.

DESIGNS

OCTOBER 9, 1928.

76,517. BRIDGE FOR AN OPHTHALMIC MOUNTING. FREDERICK R. BISHOP, North Attleboro, Mass., assignor to The Bishop Company, North Attleboro, Mass., a Corporation of Massachusetts. Filed May 24, 1928. Serial No. 26,839. Term of patent 14 years.



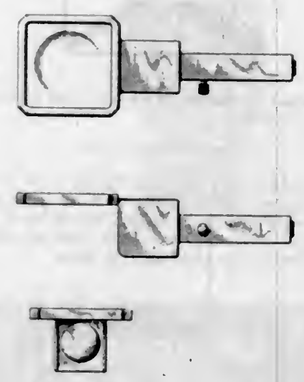
The ornamental design for a bridge for an ophthalmic mounting substantially as shown.

76,518. SMOKER'S STAND. JOHN H. BRADNACK, New Haven, Conn., assignor to The Tubular Products Company, Southington, Conn., a Corporation. Filed June 22, 1928. Serial No. 27,222. Term of patent 14 years.



The ornamental design for a smoker's stand, as shown.

76,519. ILLUMINATED HAND MAGNIFYING GLASS. CHARLES T. BRADY, Detroit, Mich. Filed June 9, 1927. Serial No. 22,371. Term of patent 14 years.



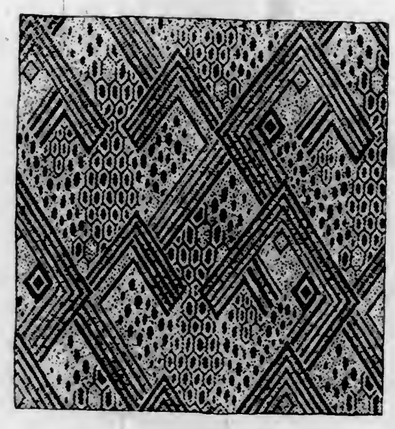
The ornamental design for an illuminated hand magnifying glass, as shown.

76,520. KNIFE. ROBERT E. BROWN, Olean, N. Y. Filed Feb. 7, 1928. Serial No. 25,256. Term of patent 14 years.



The ornamental design for a knife, as shown.

76,521. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silks Mills, a Corporation of New York. Filed July 21, 1928. Serial No. 27,552. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

76,522. COAT. KATHERINE E. BURNS, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 16, 1928. Serial No. 26,335. Term of patent 3½ years.



The ornamental design for a coat substantially as shown and described.

76,523. DOLL PURSE. JACOB COHEN, Middle Village, N. Y. Filed Dec. 21, 1927. Serial No. 24,716. Term of patent 3½ years.



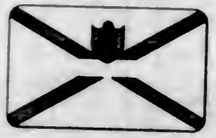
The ornamental design for a doll purse as shown.

76,524. WATCHCASE. ARTHUR P. CONANT, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed Dec. 5, 1927. Serial No. 24,389. Term of patent 14 years.



The ornamental design for a watchcase, substantially as shown.

76,525. CREDIT CARD. HENRY W. COOK, Syracuse, N. Y., assignor to A. E. Nettleton Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 10, 1927. Serial No. 20,667. Term of patent 14 years.



The ornamental design for a credit card substantially as shown and described.

76,526. PRINTED TEXTILE FABRIC OR THE LIKE. EMILE ERICSON, Pelhamwood, N. Y., assignor to National Fabric and Finishing Company, New York, N. Y., a Corporation of Massachusetts. Filed June 25, 1928. Serial No. 27,279. Term of patent 3½ years.



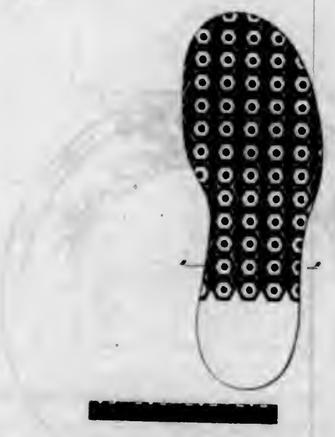
The ornamental design for a printed textile fabric or the like, as shown and described.

76,527. PRINTED TEXTILE FABRIC OR THE LIKE. EMILE ERICSON, Pelhamwood, N. Y., assignor to National Fabric and Finishing Company, New York, N. Y., a Corporation of Massachusetts. Filed June 25, 1928. Serial No. 27,280. Term of patent 3½ years.



The ornamental design for a printed textile fabric or the like, as shown and described.

76,528. SOLE FOR BOOTS AND SHOES. CLARENCE W. FREY, Endicott, N. Y., assignor to Endicott Johnson Corporation, Endicott, N. Y., a Corporation of New York. Filed July 10, 1928. Serial No. 27,439. Term of patent 14 years.



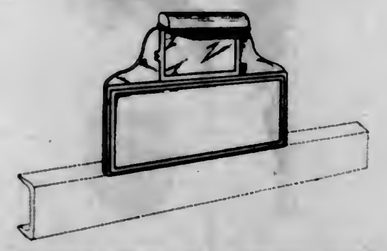
The ornamental design for a sole for boots and shoes, substantially as shown.

76,529. SPECTACLE FRAME. JOSEPH GASPARI, New York, N. Y. Filed Apr. 26, 1928. Serial No. 26,463. Term of patent 7 years.



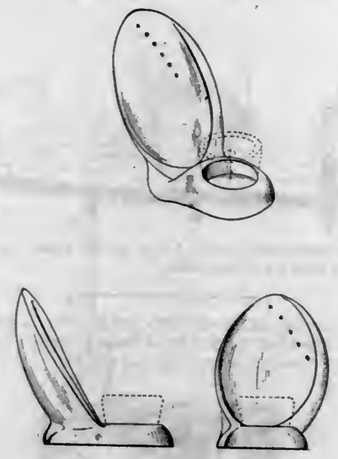
The ornamental design for a spectacle frame as shown.

76,530. COMBINED LICENSE AND NUMBER PLATE HOLDER. ELISHA A. GATES, San Diego, Calif., assignor of one-half to Frank G. Vila, San Diego, Calif. Filed Aug. 25, 1926. Serial No. 18,804. Term of patent 3½ years.



The ornamental design for a combined license and number plate holder, substantially as shown and described.

76,531. SUPPORT FOR INKSTANDS AND THE LIKE. WILLIAM H. GIBSON, Los Angeles, Calif. Filed Feb. 23, 1928. Serial No. 25,544. Term of patent 3½ years.



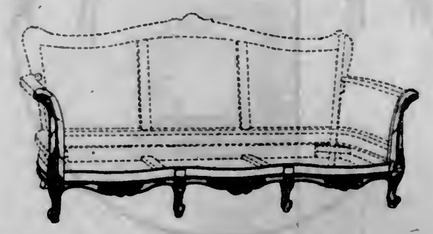
The ornamental design for a support for inkstands and the like as shown and described.

76,532. LEATHER OR SIMILAR ARTICLE. THOMAS A. GLENDON, Jr., New York, N. Y. Filed July 27, 1928. Serial No. 27,607. Term of patent 7 years.



The ornamental design for leather or similar article, as shown.

76,533. SETTEE FRAME OR SIMILAR ARTICLE. CHARLES T. GRAHAM, Grand Rapids, Mich., assignor to American Parlor Frame Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed May 28, 1928. Serial No. 26,881. Term of patent 8½ years.



The ornamental design for a settee frame or similar article as shown and described.

76,534. SETTEE FRAME OR SIMILAR ARTICLE. CHARLES T. GRAHAM, Grand Rapids, Mich., assignor to American Parlor Frame Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed May 28, 1928. Serial No. 26,883. Term of patent 3½ years.



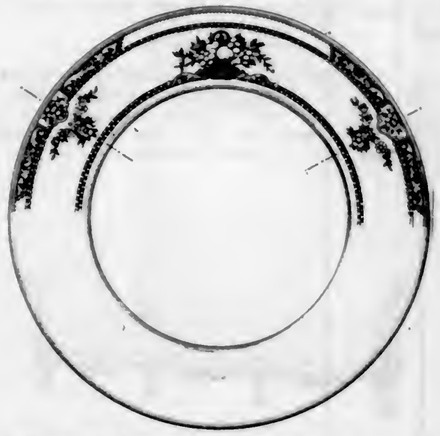
The ornamental design for a settee frame or similar article as shown and described.

76,535. VEGETABLE RECEPTACLE. WILLIAM B. FLANAGAN, Brooklyn, N. Y. Filed May 5, 1928. Serial No. 26,589. Term of patent 3½ years.



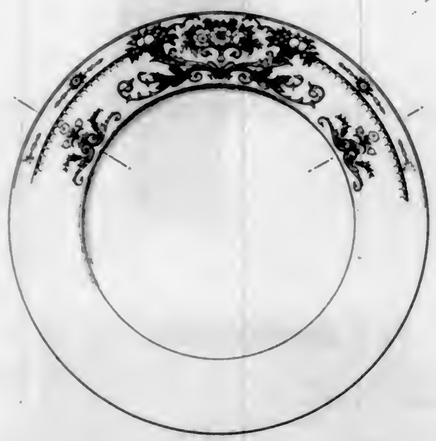
The ornamental design for a vegetable receptacle, as shown and described.

76,536. DISH OR SIMILAR ARTICLE. WILLIAM P. GRAHAM, New York, N. Y. Filed June 5, 1928. Serial No. 26,995. Term of patent 7 years.



The ornamental design for a dish or similar article substantially as shown and described.

76,537. DISH OR SIMILAR ARTICLE. WILLIAM P. GRAHAM, New York, N. Y. Filed June 5, 1928. Serial No. 26,996. Term of patent 7 years.



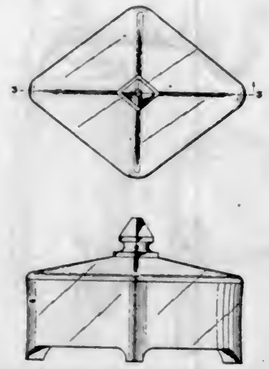
The ornamental design for a dish or similar article substantially as shown and described.

76,538. DOOR KNOCKER. LILLIAN PENDER HAGAN, Oakland, Calif. Filed Dec. 28, 1927. Serial No. 24,681. Term of patent 3½ years.



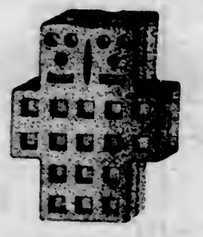
The ornamental design for a door knocker as shown.

76,539. CANDY BOX. FRED A. HARPFER, Wheeling, W. Va., assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed May 31, 1928. Serial No. 26,939. Term of patent 3½ years.



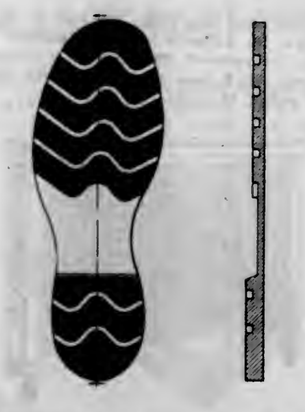
The ornamental design for a candy box, as shown.

76,540. CONFECTION. LOUIS HASBROUCK, Amherst, Mass. Filed Nov. 26, 1927. Serial No. 24,305. Term of patent 3½ years.



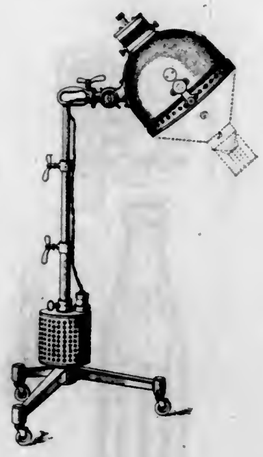
The ornamental design for a confection, as shown.

76,541. COMBINED SHOE SOLE AND HEEL. WILLIAM B. HOPWOOD, Beacon Falls, Conn., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn., a Corporation of Massachusetts. Filed Nov. 18, 1927. Serial No. 24,197. Term of patent 14 years.



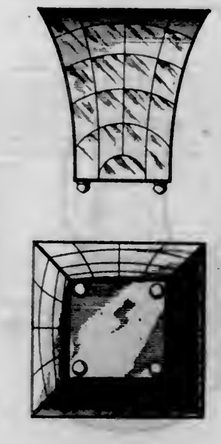
The ornamental design for a combined shoe sole and heel as shown.

76,542. THERAPEUTIC LAMP. PAUL E. JOHNSON, Chicago, Ill., assignor to Paul E. Johnson, Inc., Chicago, Ill., a Corporation of Illinois. Filed Apr. 6, 1927. Serial No. 21,482. Term of patent 14 years.



The ornamental design for a therapeutic lamp substantially as shown.

76,543. BOWL OR SIMILAR ARTICLE. ALEXANDER R. KANNÉ, Brooklyn, N. Y., assignor to Kanné and Bessant, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 4, 1928. Serial No. 25,209. Term of patent 7 years.



The ornamental design for a bowl or similar article, substantially as shown.

76,544. BOTTLE. JOHN KLEIS, Ann Arbor, Mich., assignor of one-half to The Kleis Beverage Company, Ann Arbor, Mich., and one-half to The C. E. Kleis Company, Dubuque, Iowa, a Copartnership composed of Harry A. Kleis, William Kleis, Herman Kleis, Lewis E. Kleis, Laura M. Kleis, and Ida M. Kleis. Filed Apr. 30, 1926. Serial No. 17,517. Term of patent 14 years.



The ornamental design for a bottle, as shown.

76,545. GLASS JUG. SYLVESTER A. LANGENBAKER, San Francisco, Calif., assignor to Macbeth-Evans Glass Company, Charleroi, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1928. Serial No. 26,378. Term of patent 3½ years.



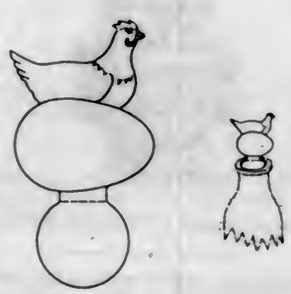
The ornamental design for a glass jug, as shown.

76,546. BRACKET FOR DRAPERY POLE OR ROD. GUNNAR MADVIG, Oakland, Calif. Filed June 13, 1928. Serial No. 27,108. Term of patent 3½ years.



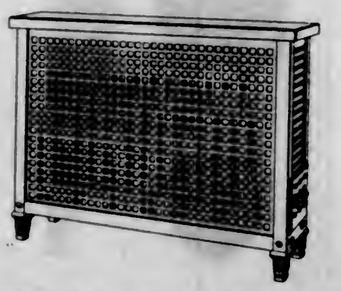
The ornamental design for a bracket for drapery pole or rod substantially as shown.

76,547. BOTTLE STOPPER. RANSDELL MATTHEWS, San Francisco, Calif. Filed Nov. 8, 1927. Serial No. 24,039. Term of patent 3½ years.



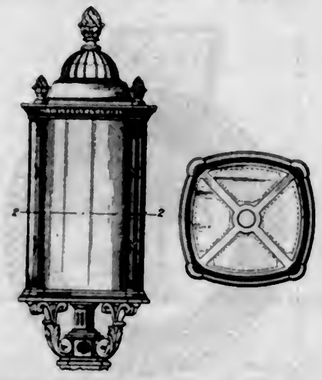
The ornamental design for a bottle stopper as shown.

76,548. ELECTRIC HEATER. FRANCIS H. MCCORMICK, Glen Ellyn, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed June 28, 1927. Serial No. 22,595. Term of patent 14 years.



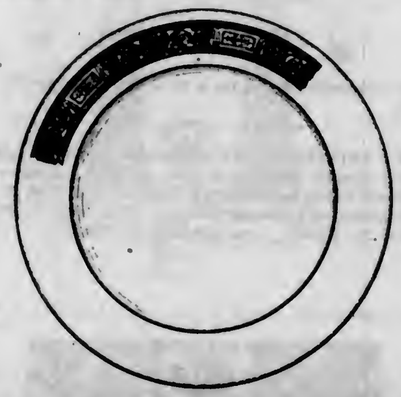
The ornamental design for an electric heater subetantially as shown.

76,549. LANTERN. OLIVER E. PAXSON, Chicago, Ill., assignor to Street Luminaire Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 30, 1928. Serial No. 26,076. Term of patent 14 years.



The ornamental design for a lantern, as shown.

76,550. PLATE OR SIMILAR ARTICLE. HEINRICH RAMPFEL, Lakewood, N. J., assignor to Nathan Straus & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 3, 1928. Serial No. 27,687. Term of patent 7 years.



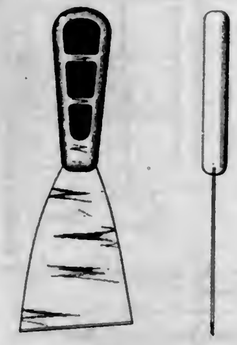
The ornamental design for a plate or similar article substantially as shown and described.

76,551. HOLDER FOR ICE-CREAM BOXES AND THE LIKE. FRANK A. REARDON, Canton, Ohio. Filed June 14, 1928. Serial No. 27,183. Term of patent 7 years.



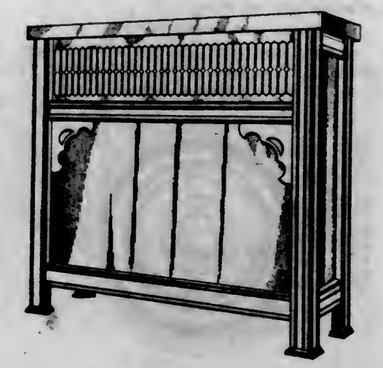
The ornamental design for a holder for ice-cream boxes and the like, as shown.

76,552. PUTTY KNIFE OR SIMILAR ARTICLE. JOHN REYNOLDS, Montclair, N. J., assignor to The Southington Hardware Co., Southington, Conn., a Corporation. Filed Dec. 12, 1927. Serial No. 24,447. Term of patent 7 years.



The ornamental design for a putty knife or similar article as shown and described.

76,553. RADIATOR CABINET OR SIMILAR ARTICLE. PAUL E. SCHLEICHER and WALTER C. CALCOTT, Gary, Ind., assignors to Schleicher, Inc., Gary, Ind., a Corporation of Illinois. Filed July 5, 1928. Serial No. 27,394. Term of patent 3½ years.



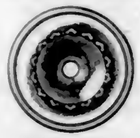
The ornamental design for a radiator cabinet or similar article, as shown.

76,554. RADIATOR CABINET OR SIMILAR ARTICLE. PAUL E. SCHLEICHER and WALTER C. CALCOTT, Gary, Ind., assignors to Schleicher, Inc., Gary, Ind., a Corporation of Illinois. Filed July 5, 1928. Serial No. 27,395. Term of patent 3½ years.



The ornamental design for a radiator cabinet or similar article, as shown.

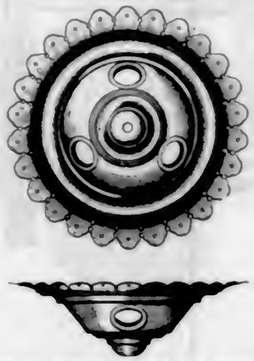
76,555. GLOBE-HOLDING ELECTRIC FIXTURE. MORRIS SCHLEPP, New York, N. Y. Filed Mar. 14, 1928. Serial No. 25,844. Term of patent 7 years.





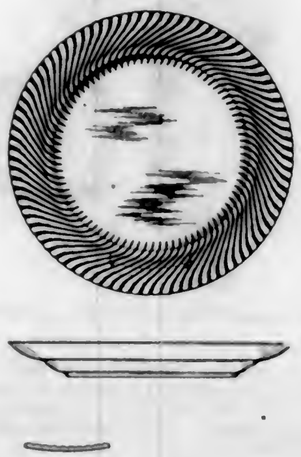
The ornamental design for a globe holding electric fixture substantially as shown.

76,556. GLOBE-HOLDING CEILING FIXTURE. MORRIS SCHLEPP, New York, N. Y. Filed July 11, 1928. Serial No. 27,446. Term of patent 7 years.



The ornamental design for a globe holding ceiling fixture, as shown.

76,557. PLATE OR SIMILAR ARTICLE. FRANK A. SEBRING, Sebring, Ohio, assignor to The Limoges China Company, Sebring, Ohio, a Corporation of Ohio. Filed July 8, 1927. Serial No. 22,705. Term of patent 3½ years.



The ornamental design for a plate or similar article, as shown.

76,558. PRINTED TEXTILE FABRIC OR THE LIKE. LOUIS JOSEPH SIRACUSANO, Astoria, N. Y., assignor to National Fabric and Finishing Company, New York, N. Y., a Corporation of Massachusetts. Filed June 22, 1928. Serial No. 27,234. Term of patent 3½ years.



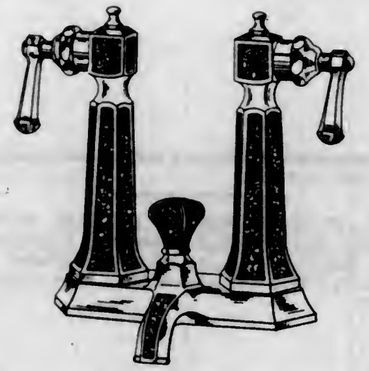
The ornamental design for a printed textile fabric or the like, as shown and described.

76,559. CHAIR OR SIMILAR ARTICLE. LATHROP FRANK SMITH, Columbiana, Ohio, assignor to Franklin Furniture Company, Columbiana, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,171. Term of patent 3½ years.



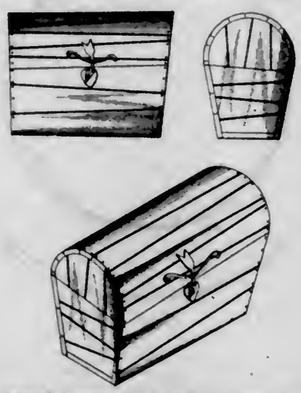
The ornamental design for a chair or similar article as shown.

76,560. FAUCET. SHERMAN SMITH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 3, 1928. Serial No. 25,148. Term of patent 14 years.



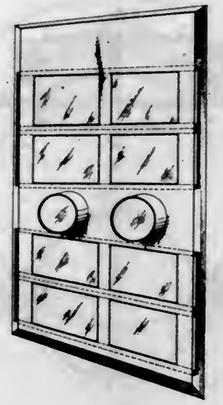
The ornamental design for a faucet, substantially as shown.

76,561. CHEST OR SIMILAR ARTICLE. CARROLL C. SNELL, New York, N. Y. Filed Feb. 13, 1928. Serial No. 25,434. Term of patent 3½ years.



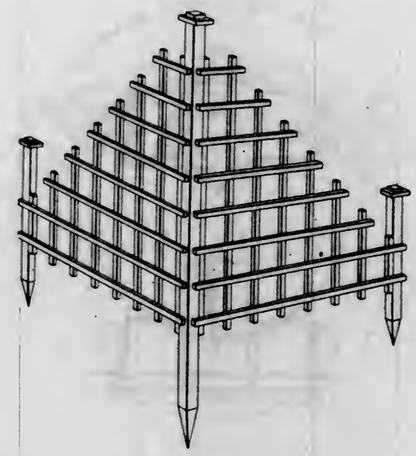
The ornamental design for a chest or similar article as shown.

76,562. COMBINED DISPLAY AND ADVERTISING SIGNBOARD. JENNINGS B. STOCKHAM and JOHN B. HICKMAN, Broken Bow, Nebr. Filed July 26, 1927. Serial No. 22,883. Term of patent 3½ years.



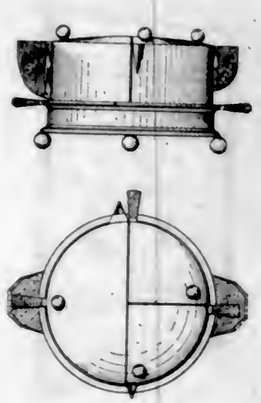
The ornamental design for a combined display and advertising signboard, as shown.

76,563. LAWN GUARD. DUDLEY V. SWEARINGEN, Chicago, Ill. Filed Jan. 12, 1927. Serial No. 20,337. Term of patent 7 years.



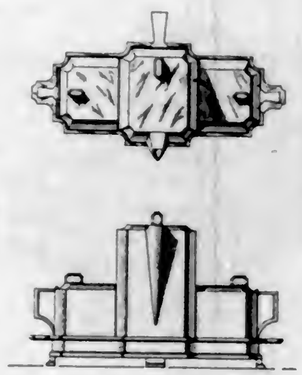
The ornamental design for a lawn guard, as shown.

76,564. TABLE SET. JEAN G. THEOBALD, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed July 17, 1928. Serial No. 27,511. Term of patent 7 years.



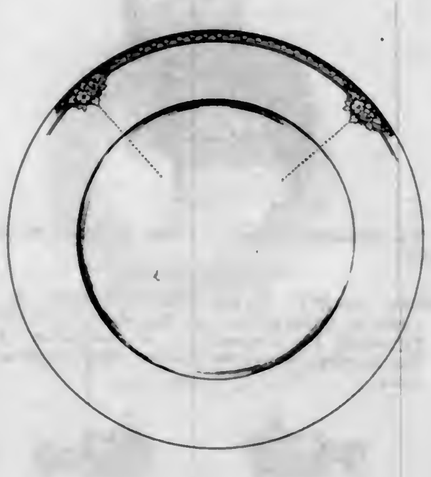
The ornamental design for a table set as shown.

76,565. TABLE SET. JEAN G. THEOBALD, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed July 17, 1928. Serial No. 27,512. Term of patent 7 years.



The ornamental design for a table set as shown.

76,566. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,366. Term of patent 7 years.



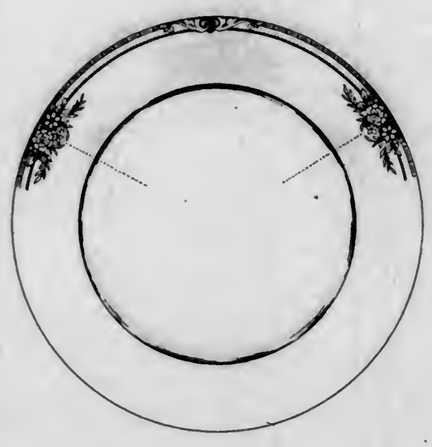
The ornamental design for a plate or similar article, as shown and described.

76,567. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,368. Term of patent 7 years.



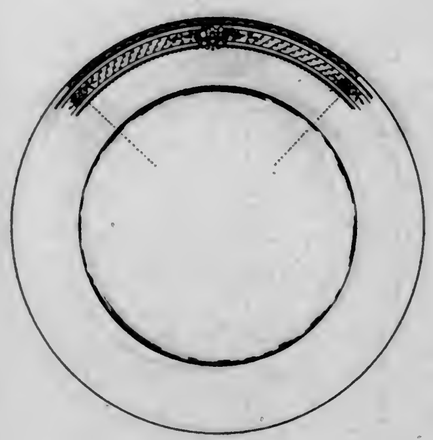
The ornamental design for a plate or similar article, as shown and described.

76,568. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,369. Term of patent 7 years.



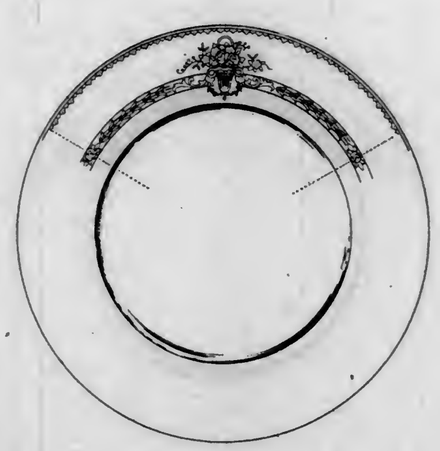
The ornamental design for a plate or similar article, as shown and described.

76,569. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,373. Term of patent 7 years.



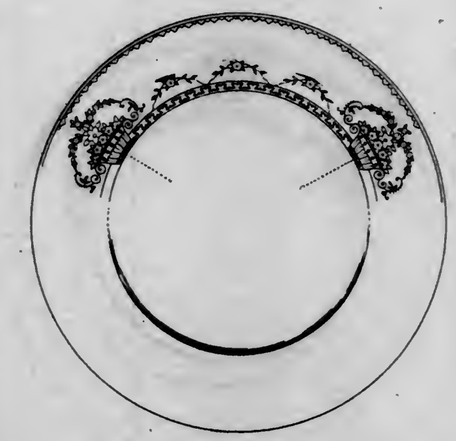
The ornamental design for a plate or similar article, as shown and described.

76,570. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,374. Term of patent 7 years.



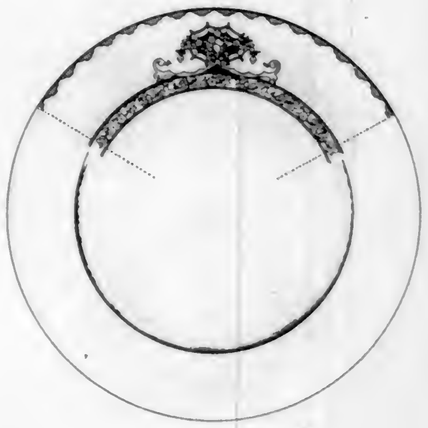
The ornamental design for a plate or similar article, as shown and described.

76,571. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,375. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,572. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,377. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,573. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,378. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,574. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,379. Term of patent 7 years.



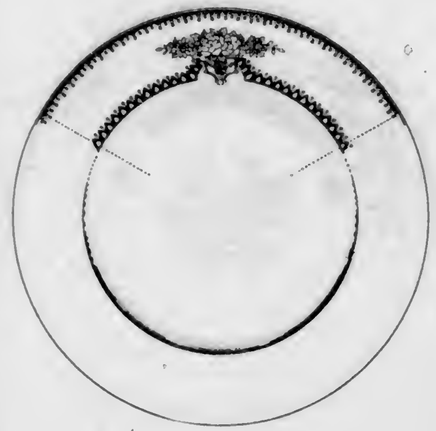
The ornamental design for a plate or similar article, as shown and described.

76,575. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,380. Term of patent 7 years.



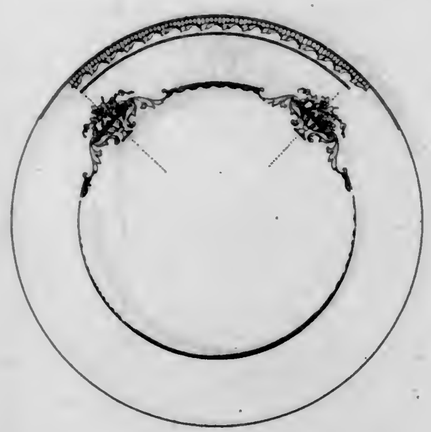
The ornamental design for a plate or similar article, as shown and described.

76,576. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,381. Term of patent 7 years.



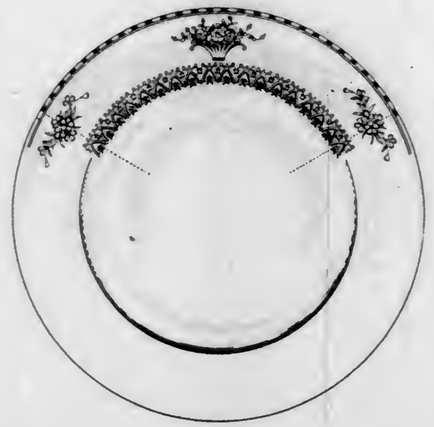
The ornamental design for a plate or similar article, as shown and described.

76,577. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,382. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,578. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,383. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,579. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,384. Term of patent 7 years.



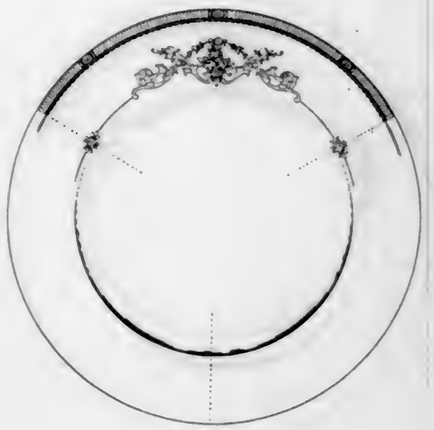
The ornamental design for a plate or similar article, as shown and described.

76,580. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,385. Term of patent 7 years.



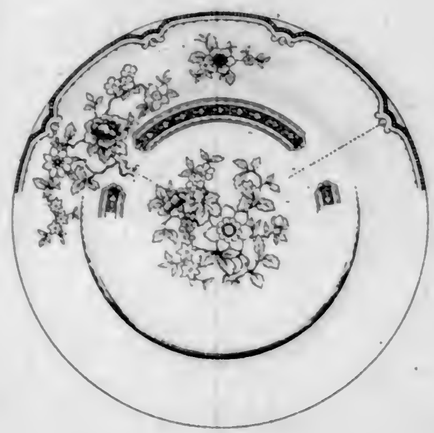
The ornamental design for a plate or similar article, as shown and described.

76,581. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,388. Term of patent 7 years.



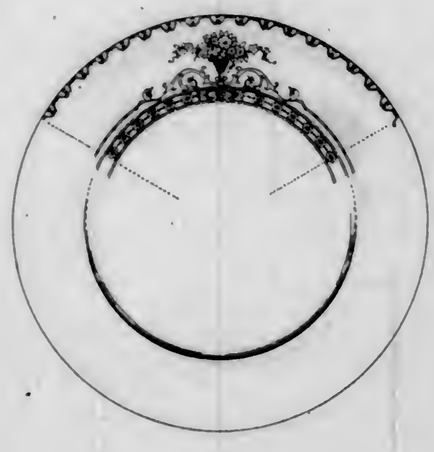
The ornamental design for a plate or similar article, as shown and described.

76,582. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,387. Term of patent 7 years.



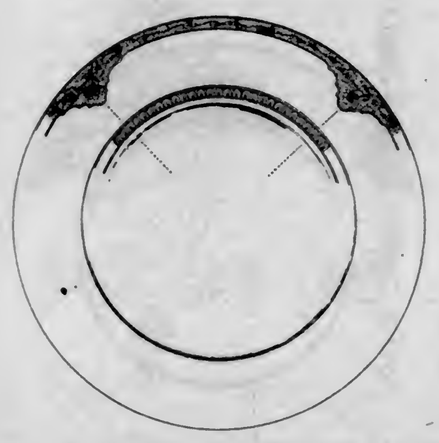
The ornamental design for a plate or similar article, as shown and described.

76,583. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,389. Term of patent 7 years.



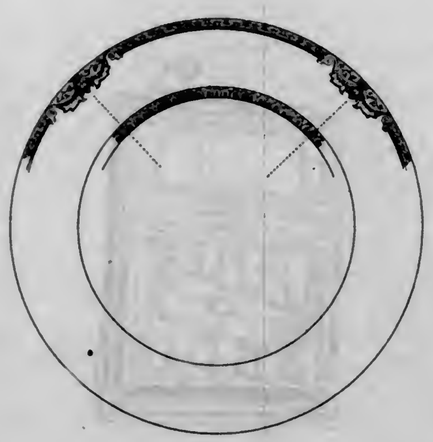
The ornamental design for a plate or similar article, as shown and described.

76,584. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,391. Term of patent 7 years.



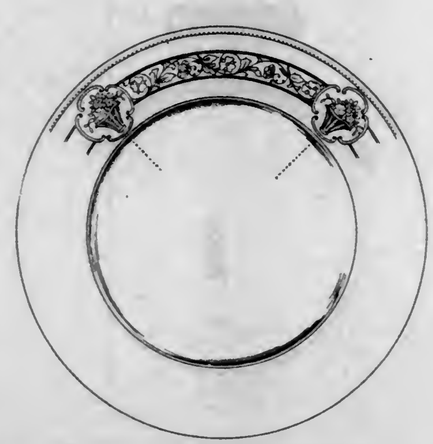
The ornamental design for a plate or similar article, as shown and described.

76,585. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,392. Term of patent 7 years.



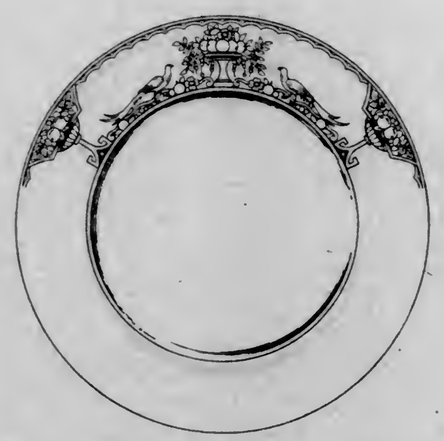
The ornamental design for a plate or similar article, as shown and described.

76,586. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,396. Term of patent 7 years.



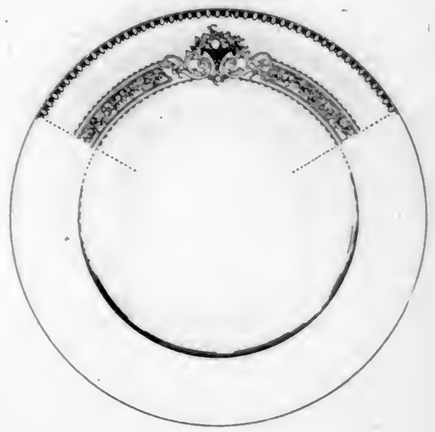
The ornamental design for a plate or similar article, as shown and described.

76,587. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,397. Term of patent 7 years.



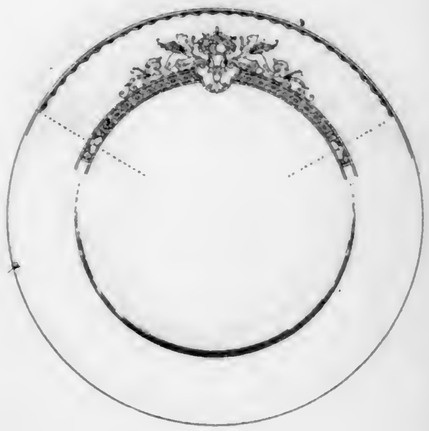
The ornamental design for a plate or similar article, as shown and described.

76,588. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,398. Term of patent 7 years.



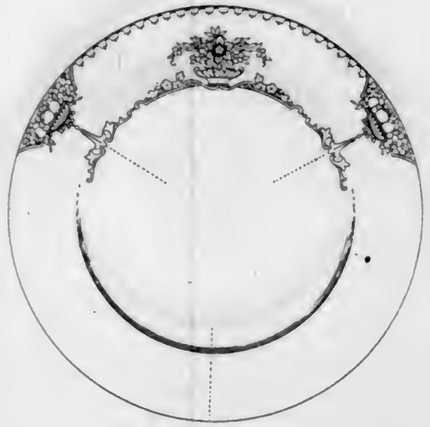
The ornamental design for a plate or similar article, as shown and described.

76,589. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,399. Term of patent 7 years.



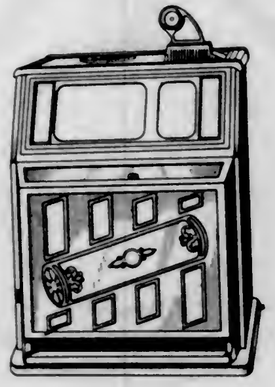
The ornamental design for a plate or similar article, as shown and described.

76,590. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,400. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,591. VENDING-MACHINE CABINET. THOMAS W. B. WATLING, Chicago, Ill. Filed June 22, 1928. Serial No. 27,228. Term of patent 3½ years.



The ornamental design for a vending machine cabinet substantially as shown.

76,592. BRACKET BACK FOR LIGHTING FIXTURES. LESTER R. WELLMAN, Chicago, Ill. Filed July 30, 1928. Serial No. 27,616. Term of patent 3½ years.



The ornamental design for a bracket back for lighting fixtures, as shown.

76,593. COMBINED BOTTLE DISPLAY AND STATUETTE. FRED CURTISS WHITE, Los Angeles, Calif., assignor to Dorado Club Beverage Co., Los Angeles, Calif., a Corporation of California. Filed June 25, 1928. Serial No. 27,272. Term of patent 14 years.

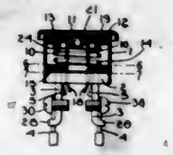


The ornamental design of a combined bottle display and statuette as shown.

PATENTS

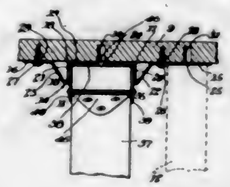
GRANTED OCTOBER 9, 1928.

1,686,506. PUSH BUTTON. STANLEY ANTHONY, Boston, Mass. Filed Jan. 3, 1922. Serial No. 526,641. 8 Claims. (Cl. 200—159.)



1. In a push button, the combination with a shell, of a base member of insulating material situated within and anchored to the shell, said base member having an opening, each end of which is formed with a widened portion, a button element movably mounted in the shell, a spring acting against the button element and tending to hold it in retracted position, two terminals, each having one end occupying and anchored in one of the widened portions of said opening, and each extending from the base member in a direction at substantially right angles thereto, a binding screw carried by each terminal adjacent its free end, each terminal having a contact portion struck up therefrom at a point between the base member and the binding screw, two resilient contacts connected to the button element and extending entirely through the base member when the button is in its retracted position, each contact having two stop shoulders, one co-operating with the bottom face of the base member to limit the spring-impelled movement of the button and the other co-operating with the top face of the base member to limit the depressing movement thereof.

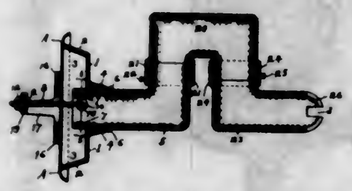
1,686,507. TENT. FRED R. BARBOUR, Los Angeles, Calif. Filed Apr. 15, 1926. Serial No. 102,257. 4 Claims. (Cl. 135—1.)



1. In a tent, in combination with the top frame of the tent, a saddle secured to the under side of said frame, a bridge element comprising a head, a pair of beams hinged together at their inner ends within said head and one of said beams being secured to said head, said head being adapted to fit in said saddle, a pair of poles located adjacent the side walls of the tent and within the tent, upon the upper ends of which poles the ends of said beams rest.

1,686,508. COAL-GAS AND OXYGEN BURNER. WILLIAM S. BARKER, Knightstown, Ind. Filed Feb. 16, 1928. Serial No. 254,847. 3 Claims. (Cl. 110—175.)

1. An attachment for the purpose set forth comprising, in combination with a partition having an aperture therethrough, an air chamber contacting with the inner face of said partition with said aperture opening thereinto, an L-shaped fitting having one end thereof located in said air chamber with its other end located inward therefrom, an L-shaped nozzle-fitting spaced from and in alinement



with said first fitting, a U-shaped fitting connecting the two L-shaped fittings and an air distributing nozzle formed on the discharge end of said nozzle-fitting, substantially as set forth.

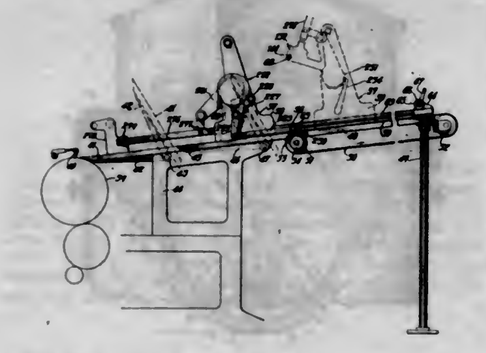
1,686,509. SHEET-METAL WHEEL. WILLIAM BARBER, Brooklyn, N. Y. Filed Apr. 15, 1919. Serial No. 290,208. 8 Claims. (Cl. 301—63.)



1. In a sheet metal wheel structure, a hub, stamped metal wheel members having inner flanged portions respectively meeting at the center to be received and supported upon the hub, said members also having portions disposed to contact flatwise against each other, and means to space said members apart at their hub portions, and means to secure said members upon the hub.

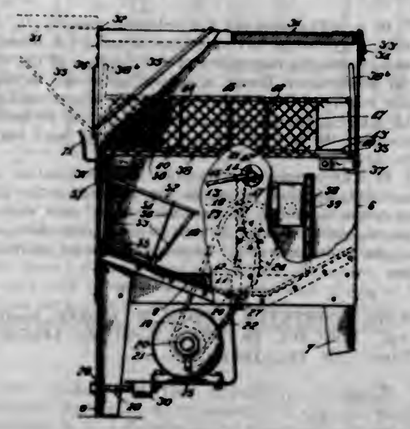
7. In a metal wheel, a hub sleeve provided with a securing flange at one end thereof, a pair of sheet metal disks provided with bores at the center thereof, drawn parts of said disks extending inwardly towards each other and telescoping over said hub sleeve, a spacer interposed between said disks and adapted to engage the drawn portions to cause a tight engagement of the latter with the hub sleeve, and means for uniting said hub sleeve, disks and spacer to each other.

1,686,510. SHEET FEEDER. ELMER W. BELLUCHE, Racine, Wis., assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y., a Corporation of New York. Original application filed Mar. 12, 1925, Serial No. 14,991. Divided and this application filed Jan. 15, 1927. Serial No. 161,258. 17 Claims. (Cl. 271—56.)



1. In a sheet-feeder, a plural sheet callpering device and sheet-conveying devices controlled thereby to release the conveyed plural sheets.

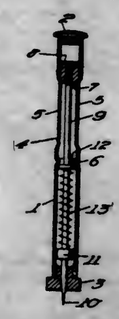
1,686,511. DISHWASHING MACHINE. GEORGE S. BLAKESLEE, Oak Park, Ill.; George R. Blakeslee executor of the said George S. Blakeslee, deceased. Filed July 19, 1920. Serial No. 397,234. 2 Claims. (Cl. 220—32.)



1. The combination of a tank open at the top, a cover adapted to tightly close said opening, a hinge connection between said cover and the tank arranged to permit the cover to swing either to its closed position or to a substantially horizontal open position, and a bail mounted on the tank and connected with the cover to swing therewith, for supporting the same when it occupies the latter position.

1,686,512. MARKING AND STAMPING TOOL. ANTON BURKENSTEIN, Chicago, Ill. Filed Sept. 27, 1926. Serial No. 138,096. 4 Claims. (Cl. 33—191.)

1. In a marking and stamping tool, a tubular body having a contracted portion, a stamp in one end of said body, a pin extending longitudinally of said body and stamp, a collar fast upon said pin, a collar loose upon



said pin for engagement with a contracted portion of said body, and a spring encircling said pin and connecting said collars.

1,686,513. ROOF PACKAGE AND BINDER THEREFOR. WALTER H. CADY, Brookline, Mass., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 6, 1922. Serial No. 550,162. 11 Claims. (Cl. 206—46.)



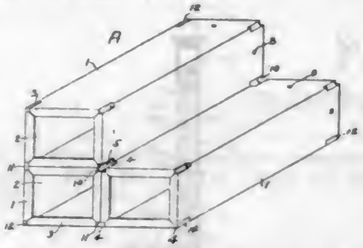
3. A package comprising asphaltic roofing material subject to shrinkage, binding members passed around said material, and means interposed between said material and members acting to maintain said members taut.

1,686,514. BOTTLE CAP. LESLIE R. N. CARVALHO, Toledo, Ohio, assignor to The Closure Service Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1926. Serial No. 84,546. 1 Claim. (Cl. 215—43.)



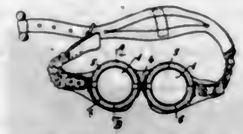
A cap comprising a top and a depending circumferential flange formed with screw threads extending lengthwise of the flange, and raised portions on the circumferential flange extending transversely of the threads and forming readily yieldable knobs arranged at intervals around the periphery of the flange, said knobs formed by stamping portions of the metal of the flange radially outward providing substantially flat gripping areas uniformly spaced from the adjacent surfaces of the container, said knobs being formed to yield readily under hand pressure and thereby decrease the area of contact between the screw threaded flange and the container.

1,686,515. SECTIONAL CABINET. EDWARD F. CHANDLER, Brooklyn, N, Y. Filed Aug. 23, 1923. Serial No. 658,864. 3 Claims. (Cl. 312—108.)



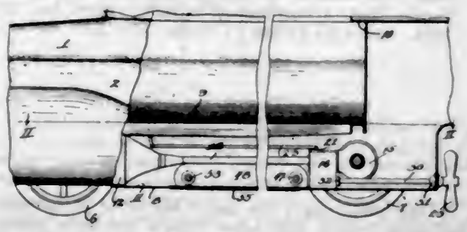
1. In combination, a plurality of sectional cabinet units, each comprising a rectangular shell having flush faces, said shells having complementary key-receiving openings in adjoining edges thereof letting into the interiors of the shells, and a freely slidable pronged key inserted in said openings with its prongs entering the respective cabinet sections and exposed interiorly thereof and embracing adjacent walls of the shells to lock them together.

1,686,516. SETTING FOR EYEGLASSES. ALFRED HEINRICH LORENZ CHRISTENSEN, Lubeck, Germany, assignor to Alexander Bernhard Dräger, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Dräger, deceased. Filed Jan. 12, 1927, Serial No. 160,786, and in Germany Jan. 13, 1926. 2 Claims. (Cl. 2—14.)



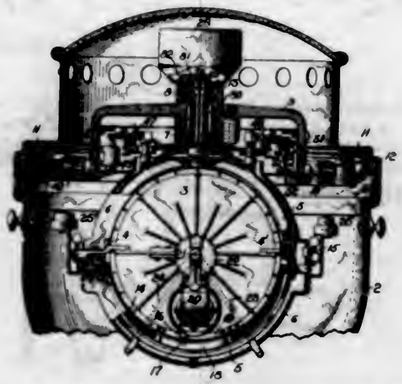
1. In a gas tight eye guard spectacle, the combination comprising a glass and a frame of elastic material therefor, said frame being provided with an annular groove to engage the rim of said glass, said groove being out of alignment with said rim so that the outer side face of said groove in contact with the glass is outwardly bent by said glass when the same is inserted into the groove, and a detachable frame ring covering both sides of said frame thereby holding both side faces of said groove in tight contact with said glass.

1,686,517. AUTO MARINE VEHICLE. ALBERT E. COOK, Evanston, Ill. Filed Jan. 22, 1927. Serial No. 162,758. 3 Claims. (Cl. 115—1.)



1. An auto marine vehicle comprising a body, driving wheels and steering wheels thereon, a power plant in the said body, a propeller mechanism for operating the vehicle in the water, an endless belt disposed within a housing in the body so that the bottom of the vehicle normally presents a smooth surface, tread members secured on a portion of the belt operable to project below the bottom of the body to secure traction for the vehicle when the said bottom is contiguous to unstable supporting material, and means to selectively drive the said endless belt.

1,686,518. BATTLESHIP COMPASS. GEORGE B. CROUSE, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 14, 1920. Serial No. 430,597. 14 Claims. (Cl. 33—226.)



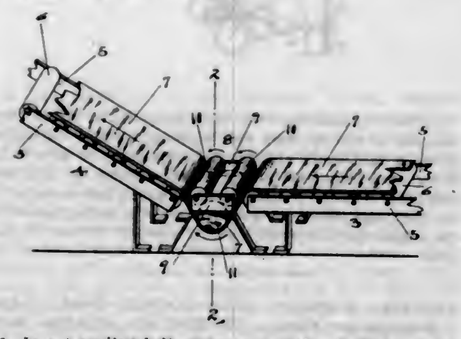
1. In gyro-ordnance apparatus, the combination with a gyroscopic compass, of a second gyroscopic instrument having a sensitive element rotatable in azimuth and a support for said element also rotatable in azimuth, a yielding connection between said support and element, and means controlled by said compass for turning said support.

3. In gyroscopic apparatus, a pair of gyroscopic compasses having different periods of oscillation about the meridian, means connected to one compass for exerting a torque about the vertical axis thereof, and means responsive to the relative position of the other compass for controlling said means without reacting on said other compass.

12. In a gyro-apparatus for ordnance control, in combination, a gyroscope having a pendulous factor rendering the same primarily responsive to the rotation of the earth and to acceleration forces, a second gyroscope having a relative less pendulous factor and power means connected to the latter gyroscope and controlled by the former for maintaining the position of the latter fixed with respect to the earth.

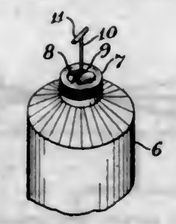
13. In a gyro-compass or the like, the combination with the sensitive element, of means for suspending the same, power-driven rotatable means for turning said suspending means, guide bearings for said element, and other power means for maintaining said bearings in a state of relative motion.

1,686,519. CONVEYER. FRANK W. CUTLER, Portland, Oreg. Filed Oct. 19, 1926. Serial No. 142,736. 4 Claims. (Cl. 198—184.)



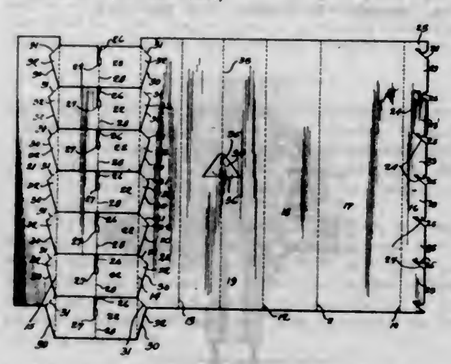
1. In a traveling belt conveyer: a pair of adjacent rollers; a floating roller beneath said adjacent rollers held in contact with each thereof by the traveling belt.

1,686,520. TUBE CLOSURE. RICHARD W. FOX, Birmingham, Ala. Filed Apr. 23, 1927. Serial No. 186,112. 2 Claims. (Cl. 221—60.)



1. A closure for tubes of the character described, comprising a threaded nipple having a convex transversely grooved end, with a relatively small dispensing hole in the bottom of the groove, a pin adapted to be inserted into the tube through the dispensing hole and having a head adapted to be received in the groove, and a cap adapted to be screwed on the nipple and against its grooved end and the pin head mounted in the groove.

1,686,521. FOLDING EGG CARTON. LLOYD G. HARRISON, Chicago, Ill. Filed July 2, 1925. Serial No. 41,013. 9 Claims. (Cl. 229—29.)

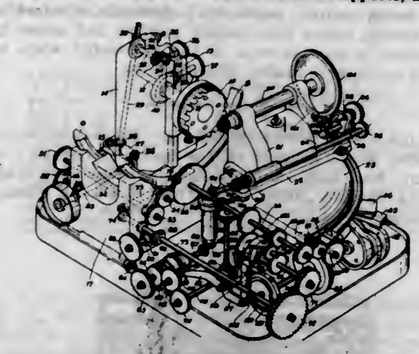


1. The combination with a carton consisting of a bottom, sides and lid, of transverse partitions interposed between said sides and integrally connected therewith, a longitudinal partition interlocked with said transverse partitions, means whereby said bottom and transverse partitions may fold to collapse said carton, and means of cooperation between said bottom and said longitudinal partition for locking said carton in its distended position.

1,686,522. GEAR-CUTTING MACHINE. HERBERT G. HARTMAN, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Nov. 30, 1926. Serial No. 151,774. 16 Claims. (Cl. 90—4.)

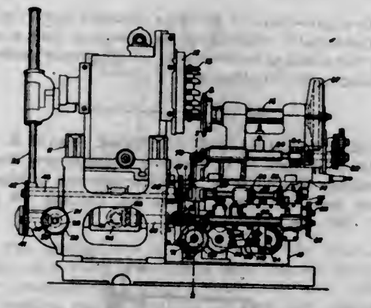
1. In a gear cutting machine of the periodically indexing type, a tool support, a blank support, a rotary cutter, having a plurality of equidistantly spaced cutting blades arranged on its periphery, rotatably mounted on said tool support, means for imparting a continuous rotary movement to the tool, means for periodically effecting a relative separation between the tool and blank to permit of indexing the blank, and gearing governing the operation of said last named means, said gearing being so selected as to permit of the tool making an integral number of revolutions during each cycle of operation of the machine whereby the same blade of the cutter commences to cut at the beginning of operation on each tooth of the blank.

12. In a machine for producing gears, a blank support, a blank spindle journaled therein, a tool support, a tool spindle journaled therein, a rotary tool, provided with a plurality of spaced cutting blades, mounted on the tool spindle, an oscillatory cradle upon which one of said supports is mounted, means for driving the tool spindle including a set of change gears governing the speed of rotation of the tool, a cam shaft, a cam mounted thereon having an operative connection with one of said supports for periodically effecting a relative separation between said supports, means



operated from said cam shaft for controlling the movement of the cradle, means for rotating the blank spindle in timed relation with the cradle during cutting, means for periodically indexing the blank, and means for driving said cam shaft including a set of change gears so proportioned to the change gears governing the speed of rotation of the tool that the tool makes an integral number of revolutions for each rotation of the cam shaft.

1,686,523. MACHINE FOR PRODUCING GEARS. ERNEST C. HEAD, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed June 3, 1926. Serial No. 113,532. 18 Claims. (Cl. 90—4.)

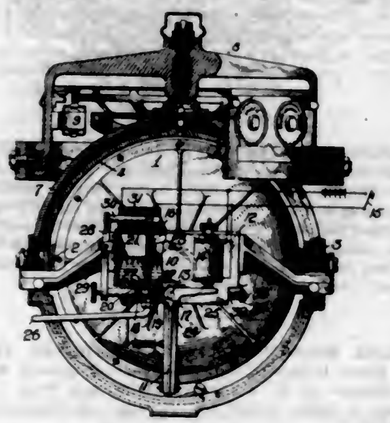


1. In a machine for generating gears, a blank support and a tool support, a movable carrier upon which one of said supports is mounted, means for imparting movement to said carrier, a blank spindle rotatably mounted on the blank support, a drive shaft, a train of gearing operatively and directly connecting said drive shaft and blank spindle and including a set of gears governing the number of teeth to be cut in the blank, a set of change gears, for maintaining the proper relation of blank and carrier movements during cutting, operatively connected with said train of gearing, means for rotating said drive shaft during cutting and indexing, and means for periodically imparting to said train of gearing an added algebraic rotation to index the blank.

15. In a machine for generating gears, a blank support and a tool support, a cradle upon which one of said supports is mounted, a blank spindle journaled in a blank support, a train of gearing connecting said cradle and blank spindle and including a set of differential gears, a

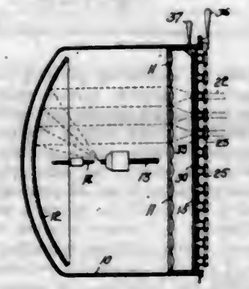
set of change gears governing the number of teeth to be cut in the blank incorporated in said train and interposed between said differential and the blank spindle, a set of change gears for maintaining the proper ratio of cradle and blank movements during cutting incorporated in said train and interposed between said differential and said cradle, reversible means for rotating said gear train, means for locking one element of said differential against rotation during cutting, means for periodically withdrawing said locking means from locking position and means for imparting to said element of the differential when released an integral number of revolutions.

1,686,524. GYROSCOPIC COMPASS. WILLIAM R. HIGHT, Hollis, N. Y., assignor to The Sperry Gyroscope Company, New York, N. Y., a Corporation of New York. Filed Nov. 7, 1925. Serial No. 67,625. 8 Claims. (Cl. 33—226.)



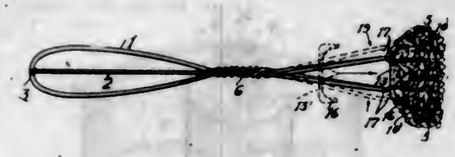
1. In a gyro-compass having a damping factor, of means for substantially eliminating the damping, and means for giving the compass substantially an 85 minute period while the damping is eliminated.

1,686,525. SEARCHLIGHT SHUTTER. FRANK R. HOUSE, Baldwin Harbor, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 3, 1924. Serial No. 735,539. 6 Claims. (Cl. 240—45.)



1. In a searchlight, a plurality of similar converging lenses having their foci in a single plane, a member positioned substantially in said plane and having a plurality of apertures through which said lenses may focus the light, and means for actuating said member to move said apertures beyond said foci and cut off the light.

1,686,526. HOLDER. WILLIAM A. LACY, Springfield, Mass. Filed July 20, 1926. Serial No. 123,678. 1 Claim. (Cl. 15—154.)



A device for the purpose described comprising a handle portion which is made up of a plurality of wires which are bent intermediate their ends, the wires being twisted together and the ends of the wires formed with inwardly extending bent portions sharpened at their free ends, an apertured cup-shaped slidable clamping member located on the free ends of the wires, said member having notches in toe aperture to separately receive single clamping wires and said wires each having an inwardly bent portion for retaining the slidable clamping member in place but permitting it to be moved rearwardly to a releasing position.

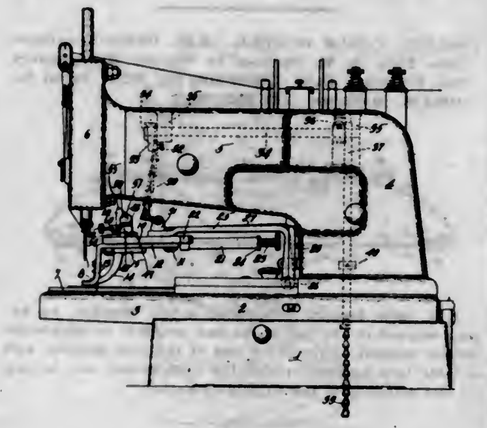
1,686,527. IGNITION APPARATUS. JOSEPH H. LEHMAN, Hasbrouck Heights, N. J. Filed Feb. 25, 1922. Serial No. 539,093. 27 Claims. (Cl. 200—21.)



2. A circuit controller for ignition apparatus, including an interrupter head having a collector ring, a sheet metal casing enclosing said head and having a tubular metal guide secured to one side thereof, and presenting dissimilar bayonet slots, a brush holder detachably mounted within said guide and having means cooperating with said slots for retaining said holder in a angle position, and a brush slidably mounted within said holder and engaging with said collector ring.

1,686,528. BUTTON CLAMP FOR BUTTON-ATTACHING MACHINES. ROBERT L. LYONS, Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Filed Oct. 12, 1923. Serial No. 668,060. 2 Claims. (Cl. 112—114.)

1. A machine of the class described having a frame, a button clamp comprising a plurality of button-engaging elements relatively movable toward and from each other and as a unit toward and from said frame, a member movable to effect such relative movement, a yoke arranged transversely of the direction of motion of said member, and a lever pivoted on said yoke and having one arm engageable with said member, said lever having another arm positioned to impinge on said frame on predetermined extent of motion of said button clamp theretoward, further
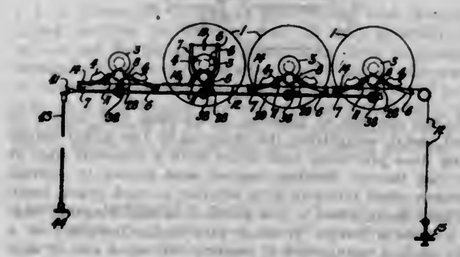


motion of said clamp in the same direction serving to rock said lever to cause said one arm to move said member in a direction to move said elements away from each other.

1,686,529. FROTH-FLOTATION CONCENTRATION OF ORES. RHETHERFORD B. MARTIN, Colonia, N. J., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Dec. 11, 1926. Serial No. 154,309. 11 Claims. (Cl. 209—167.)

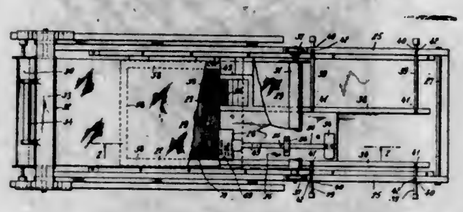
1. The process of concentrating a sulphide ore which consists in agitating a pulp of the suitably ground material with a mineral-frothing agent and with an organic compound carrying nitrogen and copper and capable of assisting in the flotation of a mineral value of the ore so as to produce a mineral-bearing froth, and separating the froth carrying said value.

1,686,530. SIDE-REGISTERING MECHANISM FOR PRINTING-MACHINE ROLLS. EDWARD THOMAS MORRIS, and THOMAS JOSEPH MILLS, London, England, assignors to R. Hoe & Co. Inc., New York, N. Y., a Corporation of New York. Filed Mar. 9, 1925, Serial No. 14,229, and in Great Britain Sept. 11, 1924. 4 Claims. (Cl. 242—58.)



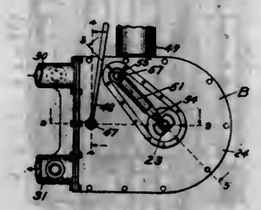
2. In side registering mechanism for supply rolls of printing machines, the combination of a train of gearing for moving each roll of a plurality of rolls in an axial direction, means operable from a distance for actuating said gearing and means for moving one wheel of each of said trains into and out of mesh, whereby any one of said rolls may be moved independently of the other rolls.

1,686,531. LETTER-PRINTING APPARATUS. ELMER BRADFORD PYLE, New York, N. Y. Filed May 19, 1923. Serial No. 640,085. 18 Claims. (Cl. 101—56.)



1. An apparatus of the character described comprising, a type bed, a body of type carried thereby for printing the body of a letter, an impression element movable over said type, an inking ribbon between the type and the impression element, and an address plate carriage provided with means for removably holding an address plate, said carriage being slidable in the plane of the type body to printing position beneath said ribbon to bring the address plate into proximity to said body of type and to a position beyond the ribbon to permit the removal of the address plate.

1,686,532. POWER TRANSMISSION. ANDREAN G. RONNING and ADOLPH RONNING, Minneapolis, Minn.; Jacob A. Ronning and Adolph Ronning executors of said Andrean G. Ronning, deceased. Filed Aug. 20, 1923. Serial No. 658,363. 2 Claims. (Cl. 103—120.)

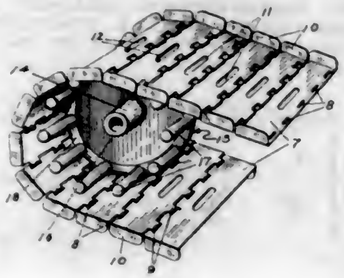


1. The combination in a device of the character described, of a housing having a semi-circular inner end, a rotor permanently arranged concentric with respect to said housing end and having its periphery spaced therefrom, radially arranged pistons slidably mounted in the rotor, a spacing block slidably arranged within the housing and normally engaging the rotor, to divide the housing into two chambers communicating with the rotor at different points, means for adjusting the spacing block to and away from the rotor, and means operative by the movement of the spacing block to regulate and determine the radial sliding movement of the pistons in the rotor.

1,686,533. CONVEYER. ANDREAN G. RONNING and ADOLPH RONNING, Minneapolis, Minn.; Jacob A. Ronning and Adolph Ronning executors of said Andrean G. Ronning, deceased. Filed July 12, 1926. Serial No. 121,833. 6 Claims. (Cl. 198—195.)

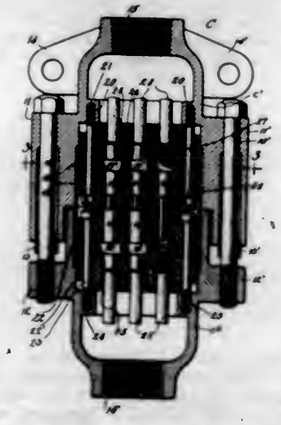
1. A conveyer belt comprising a series of sections arranged substantially edge to edge and each having means at one edge for interlocking engagement with the adjacent

edge portion of the adjoining section, each section having integrally formed end extensions, and the ends of said extensions being offset from the ends of the adjacent extensions whereby the belt may be inwardly turned to permit the sections to be locked and unlocked.



4. A conveyer comprising a belt having an endless series of interlocked sections, a spool, for supporting one end of the belt, and having a plurality of spaced, peripherally arranged bars adapted to successively engage the belt sections at points intermediate the advancing and rear edges of the sections.

1,686,534. ELECTRIC COUPLING. FRED M. ROSENZWEIG, Niagara Falls, N. Y., assignor to The Regan Safety Devices Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 13, 1924. Serial No. 699,140. 1 Claim. (Cl. 173—328.)



An electric coupling device comprising a casing consisting of upper and lower mating sections, means for removably securing the said sections together to form a coupling unit, the upper of said sections being provided with a plurality of apertured ears for suspendedly attaching the unit to a support, and being further provided with a protectively depending skirt overlapping the lower section, the opposite ends of the said sections being threaded for receiving connecting conduits, a pair of twin separable blocks of insulation material in each casing section, the blocks of a pair having aligned openings terminating in adjacent enlargements defining a cavity, means for detachably securing each pair of blocks together and to its casing section, a coupling member received by the alinged openings in each pair of blocks and having a part seated in said cavity whereby the coupling member is held in position against axial displacement by and between the blocks of the pair when the same is secured to the casing and is releasable from the blocks when the same are separated, the coupling member of one pair of blocks being arranged to mate with the coupling member in the other pair of blocks.

1,686,535. CABLE BUMPER. KARL OSTEN SCHAUMAN, New York, N. Y., assignor to William Henry Avery, San Francisco, Calif. Filed May 10, 1926. Serial No. 108,118. 9 Claims. (Cl. 293—55.)



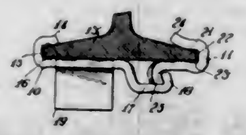
1. A cable bumper comprising a bow member, an anchor secured to one end of the bow member, an adjustable anchor secured to the other end of the bow member, and a cable loop passing around the first anchor and having its end attached to the adjustable anchor.

1,686,536. BUMPER CONTROL. KARL OSTEN SCHAUMAN, Asbury Park, N. J., assignor to William H. Avery, San Francisco, Calif. Filed Nov. 25, 1927. Serial No. 235,475. 6 Claims. (Cl. 293—55.)



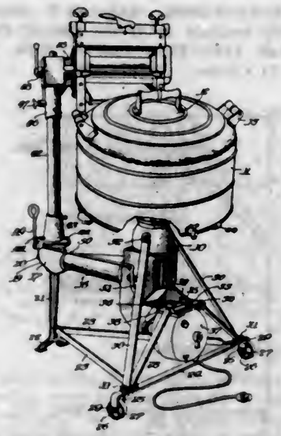
1. A control bumper comprising a bumper member, and a sliding contact arm resiliently pressed into contact with said bumper member.

1,686,537. METHOD OF MANUFACTURING SHEET-METAL RAIL ANCHORS. LAURENCE A. SCHNEIDER, Canton, Ohio, assignor to Canton Forge & Axle Company, Canton, Ohio, a Corporation of Delaware. Original application filed Sept. 29, 1924, Serial No. 740,593. Divided and this application filed May 26, 1926. Serial No. 111,747. 3 Claims. (Cl. 29—169.)



3. The method of forming a two-piece rail anchor of sheet metal, comprising the shearing of two metal blanks along lines providing each blank with a diagonal edge at one end thereof, bending one of said blanks to provide portions offset laterally with relation to each other, bending said blank along a line parallel to said diagonal edge to provide a flange, pressing said flange inwardly to a hook shaped configuration, bending the other end of said blank to provide a jaw portion, forming the other blank with reversed bends, one of which is parallel to its diagonal edge to provide a flange to interlock with the said flange of the other member, then bending the other other end of the blank to a hook shaped configuration.

1,686,538. WASHING-MACHINE ASSEMBLY. JOHN TEDELL, Springfield, Ill., assignor to Montgomery Ward & Co., Inc., Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1925. Serial No. 3,996. 9 Claims. (Cl. 68—18.)



1. In a washing machine, the combination with a vertically-disposed tub-supporting frame member, of an arm extending laterally from said tub-supporting frame member, a supporting column for wringer mechanism extending upwardly from said arm, a supporting leg for sustaining the weight of said supporting column, an outwardly extending motor supporting plate carried by the tub-supporting frame member at the side thereof opposite to the laterally extending arm, and means for tying said supporting leg to said tub-supporting frame member.

1,686,539. AUTOMATIC LOCKING CLAMP. ERNEST G. UNGER, New York, N. Y., assignor to Keen Waving Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 12, 1925. Serial No. 8,636. 14 Claims. (Cl. 132—36.1.)

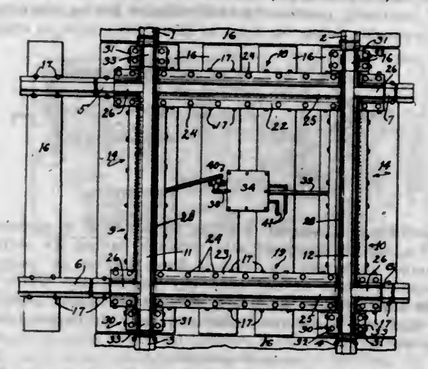


1. A clamp for crushing a paste board tube towards a closed position, including a pair of jaws pivotally connected and having their opposed inner faces concaved to engage and crush opposite sides of the tube, a pin carried by one of the jaws and a ratchet pivotally connected to the other jaw and having one of its edges defined by a rack of teeth adapted to be moved into engagement with the pin to secure the jaws in this tube crushing position.

1,686,540. MINERAL DYEING. CLARENCE B. WHITE, Montclair, N J., assignor to Vivatex Processes, Inc., Lodi, N. J., a Corporation of New Jersey. Filed Dec. 23, 1926. Serial No. 156,766. 12 Claims. (Cl. 8—5.)

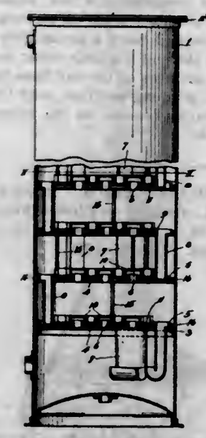
1. In mineral dyeing of textile material, the steps comprising forming with the aid of a solvent stimulant a solution of a difficulty soluble metallic salt, and impregnating the textile material with the solution.

1,686,541. RAILWAY CROSSING. GEORGE W. WILSON, Los Angeles, Calif., assignor of one-half to James R. Townsend, Los Angeles, Calif. Filed Apr. 25, 1927. Serial No. 186,317. 5 Claims. (Cl. 246—378.)



1. A railway crossing comprising a substantially cylindrical element having a wheel bearing surface to form an uninterrupted continuation of alined running rails, a second wheel bearing surface, circumferentially spaced from the first mentioned wheel bearing surface to form an uninterrupted continuation of relatively alined running rails angularly disposed with relation to the first mentioned rails; and means for bodily rotating the element for selectively positioning the wheel bearing surfaces relative to the angularly disposed running rails.

1,686,542. BUBBLE TOWER. LOUIS E. WINKLER and FRED C. KOCH, Wichita, Kans. Filed June 28, 1926. Serial No. 118,911. 5 Claims. (Cl. 261—114.)



1. In a bubble tower, the combination of a tower, a bubble deck fitted in said tower and supported some distance from the bottom thereof, a rim formed adjacent the periphery of said deck, packing fitted against the outside of the rim and sealing the space between the periphery of the deck and the wall of the tank, a second deck received within said tank, and spacing rods between said first and second deck for the spacing and support of said second deck.

1,686,543. VEHICLE HEADLIGHT. WILLIAM H. WOOD, South Euclid, Ohio. Filed Feb. 2, 1927. Serial No. 165,253. 3 Claims. (Cl. 240—41.)

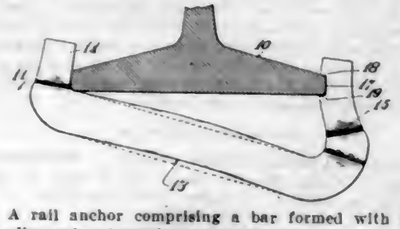
1. In a headlight, the combination with a light source, of a reflector having portions approximating a paraboloid whose focal point is located near said light source to pro-

duce a concentrated distance beam, and having one or more additional regions of comparatively small area whose normals intersect the vertical axial plane at a point above said light source to produce a narrow beam above the axis, the remaining portions of said reflector having their normals passing below the level of said light source so that a



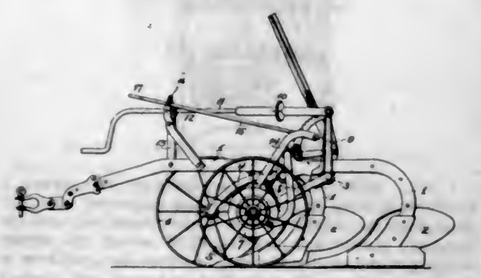
spreading, downwardly deflected illumination is produced, and a lens in front of said reflector having its surface covered uniformly by vertical flutes having an angular spreading effect of not over ten degrees, the width of such narrow beam being such as not to be spread laterally by said lens more than four and one-half degrees from the center line.

1,686,544. RAIL ANCHOR. CHARLES F. YARDLEY, Larchmont, N. Y. Filed Sept. 20, 1926. Serial No. 136,507. 14 Claims. (Cl. 238—330.)



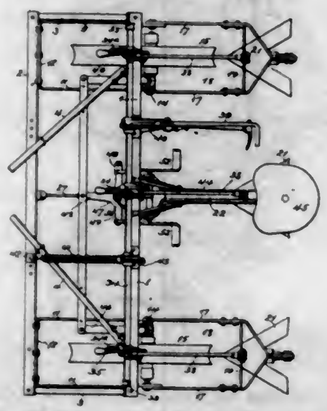
1. A rail anchor comprising a bar formed with angularly disposed end portions adapted to hook over opposite edges of the rail base and exert a spring grip thereon transversely of the rail, the end portions being so disposed with relation to the top surfaces of the rail base that the anchor, when in its normal gripping position, may be removed from the rail by downward pressure on the extremity of either of said end portions.

1,686,545. POWER-LIFT PLOW. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed June 8, 1923. Serial No. 644,177. 1 Claim. (Cl. 97—72.)



In a power lift plow, the combination of crank axles, ground wheels on the axles, a plow frame carrying earth-working means and provided with bearings for the axles, power lift means associated with one of the wheels and connected to the frame for raising the latter, a control lever cooperable directly with said power lift means and supported independently of said frame whereby the latter will be capable of vertical movement independently of said control lever, an operating rod connected with said control lever and extending forwardly above the frame, a guide for said rod, and means on the frame adjacent the front end thereof for supporting said guide whereby the operating rod will be maintained in position to be manipulated from a position in front of the plow.

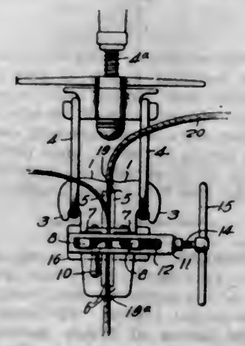
1,686,546. CULTIVATOR. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed June 8, 1926. Serial No. 114,461. 11 Claims. (Cl. 97—138.)



1. In an agricultural implement, the combination with a horizontal frame, of depending pairs of fixed supports, wheels disposed between the depending supports of the respective pairs of supports, axles for said wheels, each mounted on one of the supports to rock thereon about a vertical axis, beams connected with said depending supports, and soil-engaging means carried by said beams.

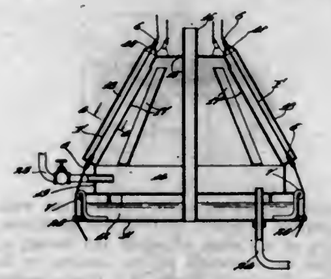
11. In an agricultural implement, the combination with a wheeled frame, a plurality of beams including side beams and an intermediate beam, and soil-engaging means carried by said beams, of a supporting yoke secured to an intermediate portion of the frame, a member connecting the arms of said yoke, a brace connected with said member, sleeves on said member between the brace and arms of the yoke, and arms between said sleeves and the arms of the yoke and adjustably secured to the intermediate beam, whereby the intermediate beam may be adjusted laterally with respect to the side beams.

1,686,547. WIRE-LINE CLAMP. THOMAS W. BELL and THOMAS C. ROGERS, Parkersburg, W. Va. Filed Mar. 24, 1927. Serial No. 178,097. 6 Claims. (Cl. 24—135.)



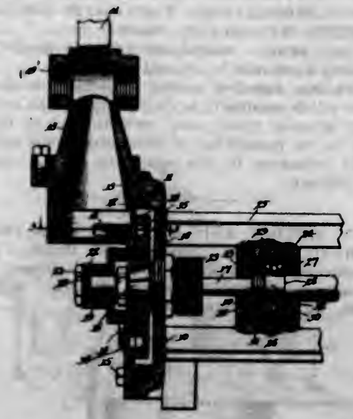
1. A cable clamp comprising cooperating jaws, each jaw having a cable receiving groove therein, means to force a cable into said groove between the jaws, and means to secure the jaws on the cable, said means comprising a curved thumb carried by one jaw and extending in front of the cable receiving groove.

1,686,548. YARN-CONDITIONING MACHINE. ALFRED BLANCHARD, Ware, Mass., assignor to Otis Company, Ware, Mass., a Corporation of Massachusetts. Filed Apr. 24, 1926. Serial No. 104,328. 14 Claims. (Cl. 66—125.)



1. The conditioning device for a machine of the character described comprising a plurality of separate steam chambers one for each thread to be conditioned, a main steam chamber supplying steam to said separate chambers, and an oiling device supplying oil to the yarn as it emerges from said separate steam chambers.

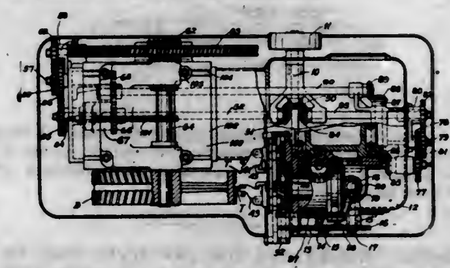
1,686,549. PUMP. ARTHUR W. BURKS, Decatur, Ill. Filed Dec. 11, 1925. Serial No. 74,807. 25 Claims. (Cl. 103—96.)



1. In a pump, a casing having a fluid inlet and a fluid outlet, a rotor in said casing having fluid impelling buckets thereon, and a chamber disposed adjacent the path of said buckets, said chamber being in communication with the rotor through an opening and being arranged to retain a body of liquid therein and to permit the same to receive from the buckets through said opening a movement in which it engages the buckets as the rotor is operated.

1,686,550. METHOD OF AND MACHINE FOR CUTTING CYLINDRICAL GEARS. ALLAN H. CANDEE and MAGNUS H. JOHANSON, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Nov. 2, 1926. Serial No. 145,903. 41 Claims. (Cl. 90—9.)

1. The method of producing gears, which consists in moving a tool at a variable velocity across the face of a cylindrical blank in a plane parallel to the axis of the blank, while rotating the blank continuously on its axis at a uniform velocity and simultaneously imparting an additional relative movement between the tool and blank at a variable velocity, which combined with the other motions will produce the longitudinal tooth form.



25. In a machine for producing cylindrical gears, a tool support, a tool mounted thereon, a blank support, a blank spindle journaled therein, a carrier upon which one of said supports is mounted, means for moving the tool at a variable velocity across the face of the blank in a plane parallel to the blank axis, means for imparting a continuous rotary movement to the blank spindle, means for imparting to said carrier a uniform velocity movement in a direction tangential to the pitch surface of the blank and means for simultaneously imparting to said carrier a variable velocity movement, also in a direction tangential to the pitch surface of the blank.

1,686,551. BASE FOR PORTABLE LAMPS. ANDREW J. CARMICHAEL, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a Corporation of Connecticut. Filed Sept. 26, 1927. Serial No. 222,168. 8 Claims. (Cl. 240—53.)

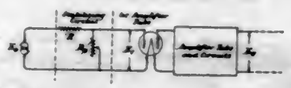


1. A lamp base comprising in combination a hollow member, a tubular standard passing therethrough, a rod reciprocally mounted within said standard and provided with a spring, a hollow nut threaded to the lower end of the standard and having an annular shoulder upon which one end of the spring is seated, and a clamp carried by the lower end of said rod.

1,686,552. STABILIZATION OF CIRCUIT OUTPUT. FRANK E. FAIRCHILD, Red Bank, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 1, 1927. Serial No. 223,345. 7 Claims. (Cl. 250—36.)

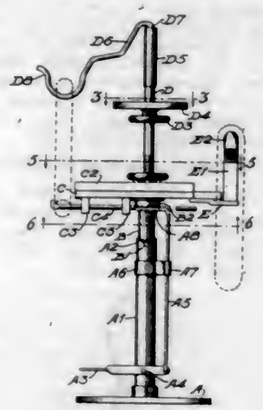
3. In an oscillation generator circuit, a vacuum tube oscillator, a stabilizing three-electrode vacuum tube having its plate-filament impedance bridged across the gen-

erator circuit, a common source of plate supply voltage for said vacuum tubes, a source of grid biasing voltage for said stabilizing tube, and a series resistance in the circuit,



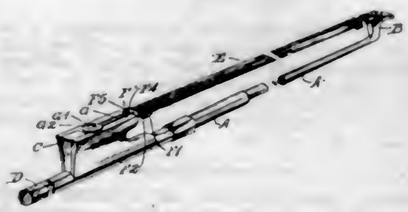
the value of said series resistance and the value of said grid biasing voltage being such that the output voltage of the generator circuit is independent of fluctuations of the plate supply voltage.

1,686,553. WORKTABLE FOR PNEUMATIC-TIRE REPAIRING. ELMORE M. GODFREY, JR., Knoxville, Tenn. Filed Feb. 23, 1927. Serial No. 170,375. 16 Claims. (Cl. 154—9.)



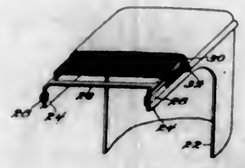
1. In a structure of the kind described, the combination of a tubular column, a stem telescoping and rotatable in said column and said stem and column being formed for inter-engagement in any of a plurality of positions into which the stem may be turned, operator-controlled means for lifting said stem, and a table top supported by said stem.

1,686,554. VIOLIN BOW. CHARLES B. GRAY, Philadelphia, Pa. Filed Aug. 4, 1922, Serial No. 579,696. Renewed Jan. 10, 1928. 18 Claims. (Cl. 84—282.)



1. In a violin bow, the combination with the bow stick and two abutments adjustable relative to each other, of a bunch of parallel hair having one end in operative relation with one of said abutments, a terminal structure secured to the other end of the bunch of hair and spaced from the adjacent abutment, and a twistable tension member joined to said terminal structure and the adjacent abutment, substantially as described.

1,686,555. METHOD OF MAKING MOTOR-VEHICLE BODIES. HARRY J. COYNE, Watertown, Mass. Filed June 7, 1926. Serial No. 114,288. 2 Claims. (Cl. 296—137.)



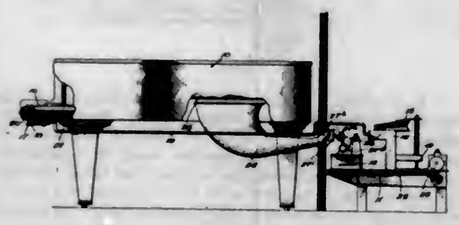
1. A method of making motor vehicle tops which consists in producing a loosely matted web of fibrous material incapable of sustained handling and having a width at least equal to the width of the opening in the top, connecting the loose fibrous web to a fabric backing support by stitching, cutting the thus reinforced web into lengths commensurate with the length of the top opening to form individual pads, applying the pad to a skeleton top structure with the fabric support underneath and directly engaging with the structure, securing the pad to the structure, finally applying a finish cover over the pad, and securing the cover at opposite edges to maintain it in a taut condition bearing upon the yielding material of the pad.

1,686,556. EMULSIFIED FOOD PRODUCT. GLENN G. GRISWOLD, Madison, Ohio. Filed Apr. 29, 1926. Serial No. 105,573. 8 Claims. (Cl. 99—8.)

2. A food product comprising a cream consisting of permanently emulsified honey and albumen.

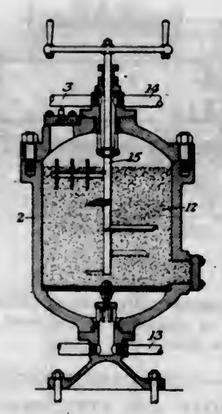
8. The herein described method emulsifying a syrup-like substance which consists in mixing the syrup-like substance with egg albumen under such conditions as to form an emulsion in the proportion of substantially one gallon of syrup-like substance to the equivalent of one ounce of dry egg albumen.

1,686,557. METHOD AND APPARATUS FOR PREPARING MUSIC ROLLS. JAMES CLARKE HAGEY, Chicago, Ill., assignor to The Cable Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 29, 1919. Serial No. 320,589. 22 Claims. (Cl. 84—463.)



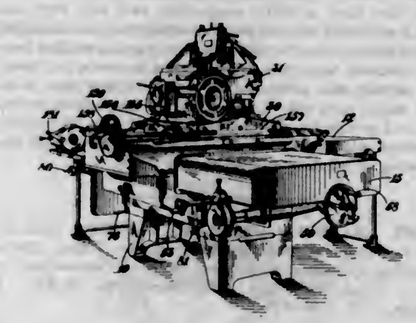
9. The method of preparing a music-roll by first producing upon a sheet expressions of pitch and time note-valuation, which expressions represent the notes of a musical selection, and thereafter providing said sheet with expressions of tonal volume; which method comprises the employment of a sound-record of the same musical selection as a guide for determining the proper arrangement of said expressions of tonal volume upon said sheet with respect to said expressions of pitch and time note-valuation thereon.

1,686,558. FILTRATION OF ALKALINE WATERS. RALPH E. HALL, Pittsburgh, Pa., assignor to John M. Hopwood, Dormont Borough, Pa. Filed May 3, 1924. Serial No. 710,740. 4 Claims. (Cl. 210—9.)



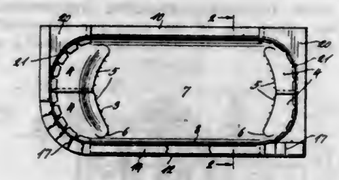
1. As a filtering medium for hot alkaline boiler waters, an iron silicate.

1,686,559. DUPLICATING OR PRINTING APPARATUS AND PARTICULARLY PHOTOGRAPHIC STEP-AND-REPEAT CONTACT-PRINTING APPARATUS. ROBERT HARRIS, London, England, assignor of one-half to Pictorial Machinery Limited, London, England, a British Company. Filed June 10, 1927, Serial No. 197,790, and in Great Britain Aug. 11, 1926. 8 Claims. (Cl. 95—73.)



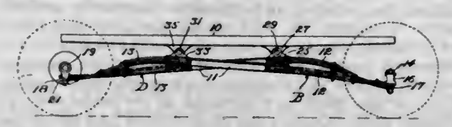
1. In apparatus of the character described, the combination of a framework having two independent tracks lying transversely one of the other, a supporting device for a printing member mounted to reciprocate on one of said tracks, a unit-holding device for carrying a unit mounted to reciprocate on the other of said tracks, a fine-adjustment stop adjustable in the direction of length of one of said tracks, resilient driving mechanism arranged to drive the device on the latter track up to and hold it resiliently against said stop, locking means for locking the latter device temporarily in its position of adjustment against said stop, and a second driving mechanism distinct from said resilient driving mechanism and mounted independently thereof in association with the other track and arranged to drive the device on the latter.

1,686,560. PROTECTIVE COVER FOR BATHTUBS. JAMES M. HOWLETT, Gary, Ind. Filed May 1, 1928. Serial No. 274,205. 4 Claims. (Cl. 4—173.)



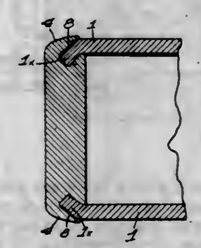
1. A protective covering for bath tubs comprising a flexible member having a bottom portion provided with oppositely curved ends and side portions extending from the sides of the bottom portion, said side portions having projecting portions adapted to form a covering for the ends of the tub.

1,686,561. SPRING SUSPENSION FOR VEHICLES. HENRY WEBB HYDE, North Cohasset, Mass., assignor to Hyde Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 24, 1923. Serial No. 659,095. 4 Claims. (Cl. 280—104.)



1. An improved spring suspension for motor vehicles comprising two pairs of spring reaches, each supported at its opposite ends from the axles of the vehicle and both pairs of reaches extending between the same two axles, and a pair of pivotal connections for each pair of reaches, said pairs of pivotal connections being separated from each other lengthwise of the body.

1,686,562. PROCESS OF FORMING PIPE CLOSURES. PERCY JACKSON, Chicago, Ill. Filed June 20, 1927. Serial No. 200,187. 3 Claims. (Cl. 29—148.2.)

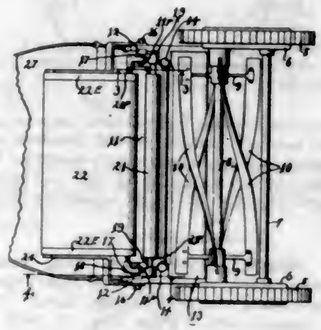


1. The herein described process of forming closures for pipes, which consists in placing in one end of the pipe a closure plug having a circumferential groove and an outwardly extending flange having a curved portion, bending the end of the pipe into the groove, bending the flange over the bent pipe end, and welding the bent flange to the bent pipe end.

1,686,563. GRASS CONVEYER FOR LAWN MOWERS. JOHN CONRAD JOHNSON, St. Paul, Minn. Filed Sept. 7, 1927. Serial No. 217,997. 1 Claim. (Cl. 56—156.)

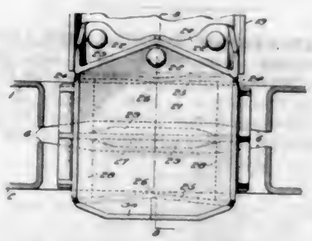
In a lawn mower having a pair of spaced traction wheels, a cutting reel operated by the movement of said wheels and a ground contacting roller rearward of said reel; a

grass catcher and conveyer comprising an endless apron and arranged in an upward and rearwardly inclined plane from said ground roller, a roller engaging each of the opposite turns of said conveyer, one of said rollers with the said apron frictionally engaging the ground roller to move the upper run of the conveyer rearwardly, angular bracket members removably fixed pivotally at both



sides of the conveyer and extending rearwardly and upwardly to support the ends of the rear conveyer roller, and adjustable means for supporting said brackets at predetermined angles, said forward roller of the conveyer arranged to bear the conveyer down on the ground roller on top of the latter and rearward of its center, and an auxiliary roller engaging the ground roller forward of and above its center.

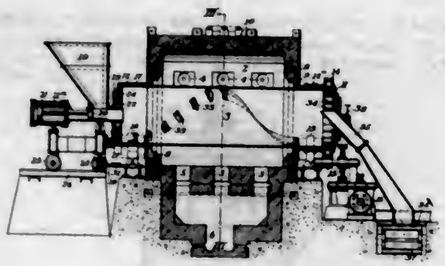
1,686,564. SPRING PLANK. BYERS W. KADEL, Baltimore, Md., assignor, by mesne assignments, to The Symington Company, a Corporation of Maryland. Filed Oct. 25, 1923. Serial No. 670,656. 28 Claims. (Cl. 105—179.)



1. The combination with a car truck side frame having inner and outer walls each of which is provided with a bolster opening and an inwardly extending stiffening flange adjacent the bottom of said opening, of a spring plank saddle member having portions of its underface designed to engage said flanges and other portions of said underface spaced therefrom, and means provided on the underface of said member for reinforcing the same, said means serving to compensate for the relatively reduced thickness of said member at the portons spaced from said flanges.

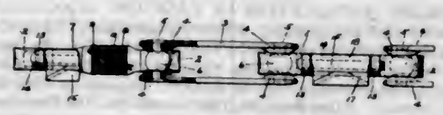
1,686,565. CALCINING FURNACE. JAMES H. KNAPP, Los Angeles, Calif., assignor to Tate Jones & Company, Incorporated, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 17, 1924. Serial No. 756,430. 8 Claims. (Cl. 263—34.)

1. A calcining furnace, including a rotatable calcining drum, means for heating the same, material handling means separate from the drum but adjacent one end of the drum and substantially co-axial therewith, a packing between the material handling means and the drum, and means for



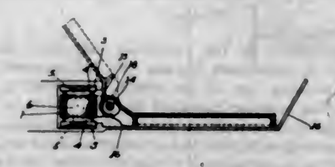
maintaining a substantially uniform pressure on the packing regardless of expansion or contraction of the drum, substantially as described.

1,686,566. CHAIN AND ATTACHMENT THEREFOR. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Co., Columbus, Ohio, a Corporation of Ohio. Filed June 23, 1924, Serial No. 721,871. Renewed July 3, 1928. 6 Claims. (Cl. 74—32.)



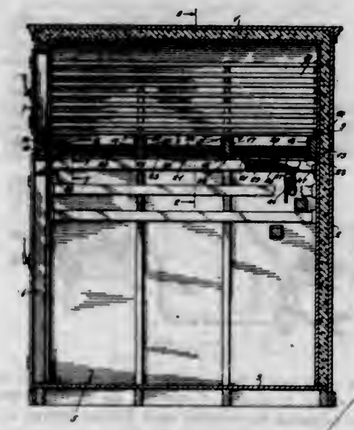
1. In a chain, a link comprising a pair of substantially parallel side bars, a pintle connecting said side bars and having a spherical bearing portion intermediate and spaced from the inner planes of said side bars, a second link having a thickness less than the distance between the inner planes of said side bars, and an elongated aperture at an end of which said spherical portion is adapted to be engaged, and means for guiding said second link into operative seated relation with said spherical portion upon the application of traction to one of said links.

1,686,567. MATERIAL-CARRYING FLIGHT. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 24, 1925. Serial No. 25,610. 6 Claims. (Cl. 198—171.)



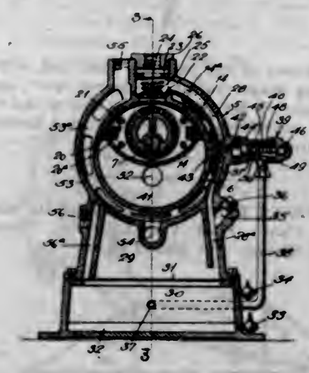
1. In a conveyer of the class described, the combination of a chain link, a pivot member carried by said link and extending longitudinally thereof, and a conveyor flight pivoted to said member, said flight having a plurality of bearing points and a housing intermediate said points extending over said pivot member.

1,686,568. REFRIGERATOR. CHARLES B. LONGSTRETH, Denver, Colo. Filed Feb. 24, 1927. Serial No. 170,520. 2 Claims. (Cl. 62—46.)



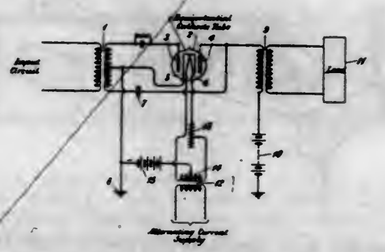
1. An ice box having an ice chamber near its top, and a refrigerating chamber beneath the ice chamber, a plurality of transversely extending parallel joists between said chambers, a bottom section located between each pair of joists, means for detachably securing said sections in place, said bottom sections filling the space between the joists and having their upper surfaces covered by a metal sheet whose opposite edges are bent upwardly so as to form upwardly extending flanges and protectors secured to the joists and provided with flanges that extend downwardly beyond the upper edges of and overlap the flanges on the bottom sections.

1,686,569. COMPRESSOR. JAMES O. MCMILLAN, Eldorado, Kans., assignor to Standard Pump & Supply Company, Wichita, Kans., a Corporation of Texas. Filed Nov. 19, 1925. Serial No. 70,097. 10 Claims. (Cl. 230—145.)



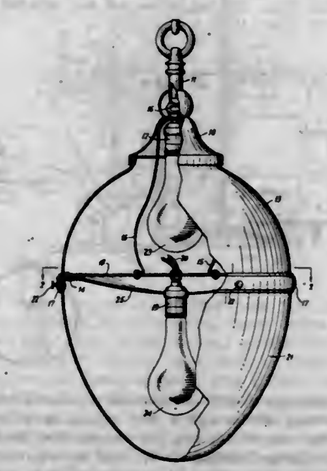
1. In a machine of the character described, a compression chamber, a piston arranged in said chamber and formed of a plurality of sections, each of substantially elliptical shape, means for rotating said piston, and means for forcing the sections apart to cause the sides of the piston to bear against the ends of the cylinder.

1,686,570. EQUIPOTENTIAL CATHODE VACUUM TUBE. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 18, 1924. Serial No. 750,642. 8 Claims. (Cl. 250—27.)



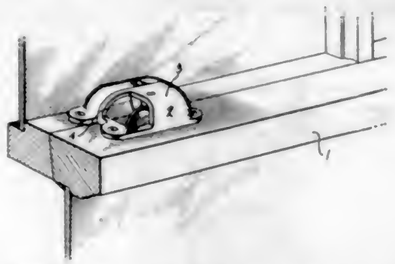
3. The combination with a vacuum tube having an evacuated vessel enclosing a cathode, a plate, a grid, and a heating element to render the said cathode active, means to energize the said heating element, a circuit having a source of potential connecting the said plate and said cathode, a second source of potential connected between the said heating element and the said cathode, so polarized as to substantially prevent the emission of electrons from the heating element to the cathode.

1,686,571. LIGHTING FIXTURE. HERMAN PLAUT, New York, N. Y., assignor to L. Plaut & Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 22, 1927. Serial No. 207,624. 1 Claim. (Cl. 240—78.)



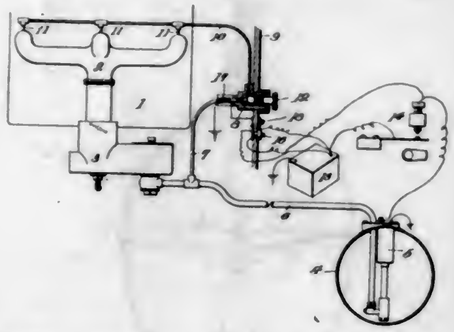
In a lighting fixture, the combination, with a canopy, of an electric lamp socket depending therefrom, an electric lamp mounted therein, a diffusing glass shade detachably secured to said canopy and enclosing said lamp, a reflector closing the bottom of said shade, all of the rays from said lamp not passing directly through said shade being redirected by said reflector, whereby the ceiling and upper corners of the room are illuminated, there being a central opening in said reflector, an electric lamp socket depending therefrom, a lamp in said socket, a glass bowl enclosing said lamp and reflector detachably secured to the glass shade, the lower surface of said reflector reflecting to the working plane all the rays from said lamp not passing directly through the glass.

1,686,572. WINDOW FASTENER. CHARLES FRANCIS POLACK, York, Pa. Filed Apr. 30, 1927. Serial No. 187,905. 1 Claim. (Cl. 292—241.)



A window latch comprising a casing attached to one window sash, a pivoted spring pressed latch therein, a complementary shell adapted to be attached to the other window sash, a triangular stud projecting downwardly from beneath the shell and a similar shaped but reversely placed boss on the latch engageable with said stud, the meeting faces of the boss and stud making an angle with the meeting edges of the complementary shells the latch being normally pressed outwardly by its spring beyond the periphery of the first mentioned shell, said last mentioned shell having a cutaway portion to clear the projecting end of the latch, said shell having a portion of its surface adjacent the cut-away portion beveled to facilitate the passage of the latch end through the cut-away portion.

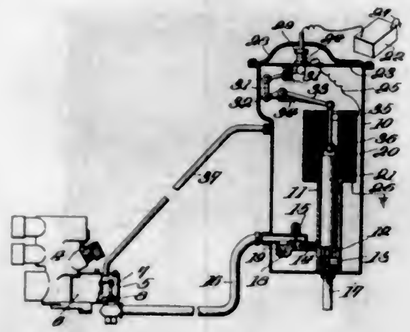
1,686,573. MEANS FOR SUPPLYING FUEL TO INTERNAL-COMBUSTION ENGINES. ALBERT G. REDMOND, Flint, Mich., assignor to Jacob Richard Francis, Flint, Mich. Filed Feb. 14, 1923. Serial No. 618,991. 13 Claims. (Cl. 123—187.5.)



7. The combination with an internal combustion engine, a charge forming device and a fuel supply tank for supplying fuel thereto, of a pump for forcing fuel from said tank to said charge forming device and maintaining said fuel under pressure and an electromagnet for operating said pump, means governed by the internal combustion engine for intermittently energizing said electromagnet, manually operated means for energizing said magnet and means under the control of the operator for by-passing a portion of said fuel around said carbureter and injecting the same directly to the internal combustion engine for priming said engine.

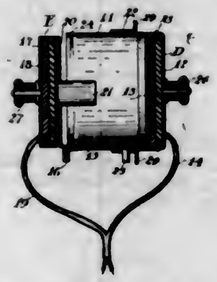
1,686,574. FUEL-FEEDING SYSTEM. ALBERT G. REDMOND, Indianapolis, Ind., assignor to Jacob Richard Francis, Flint, Mich. Filed Oct. 20, 1923. Serial No. 669,669. 7 Claims. (Cl. 158—36.4.)

1. In a fuel feeding system for motor vehicles, the combination with a main fuel supp'y tank, of a carbureter located in a plane above said tank having a fuel bowl provided with a float controlled inlet, a pump for pumping fuel direct from the said main supply tank to the fuel bowl of said carbureter, said pump comprising a pump chamber and a piston movable therein for maintaing the fuel in the pipe



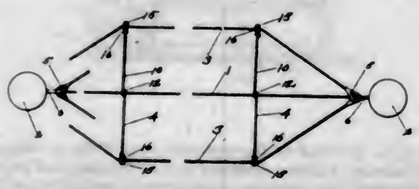
line from said main fuel supply tank to said carbureter under pressure, a source of current, an electric circuit including a solenoid for raising said piston, means actuated by said piston for making and breaking said circuit, and a receptacle in which said pump is located having an overflow pipe leading to the fuel bowl of the carbureter.

1,686,575. PERMANENT WAVER. THELMA M. REYNOLDS, St. Paul, Minn. Filed Mar. 12, 1927. Serial No. 174,766. 9 Claims. (Cl. 132—36.)



1. A hair curler of the character described, comprising a spool having flanges adjustably spaced apart, means to laterally compress a flat helical coil of hair wound thereon, and a casing associated with said spool and having heating means carried thereby.

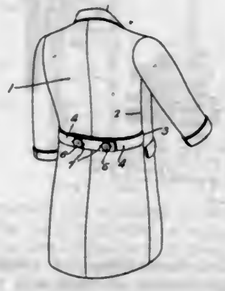
1,686,576. FENCE PROTECTOR. HENRY H. SCHUETTE, Napoleon, Ohio. Filed Feb. 15, 1928. Serial No. 254,373. 5 Claims. (Cl. 256—11.)



1. A plurality of members, means for connecting the members to parallel wires of a fence and a pair of wires connected to the outer ends of the members, whereby by the parallel wires connected to the ends of the members may be located in spaced relation to and parallel with the plane of the fence or may be located in planes juxtaposed to the plane of the fence upon rotation of the members.

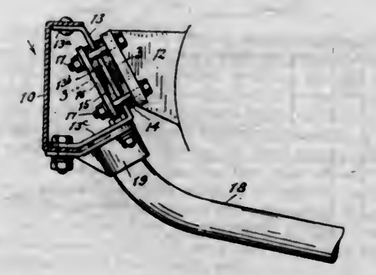
5. In combination with a wire fence, a plurality of members, each member formed of two wires, each wire having a central looped portion open to receive a wire of the fence, a pair of wires extending parallel to the fence and connected to the outer ends of the members.

1,686,577. COAT. ABRAHAM A. SIEGEL, New York, N. Y., assignor to David Siegel, New York, N. Y. Filed Apr. 20, 1927. Serial No. 185,196. 4 Claims. (Cl. 2—93.)



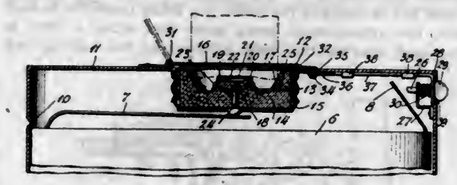
1. A convertible coat comprising a body part provided with slits or openings at opposite sides thereof under the sleeves; two belt members secured within the coat one of said membera being attached to the inner side of the coat and adjacent each slit, and adapted to be passed outwardly through the said adjacent slit and around the back of the coat; and means for fastening the free ends of the belt members together, whereby the belt members may be secured together at the back of the coat at the outer side thereof after they are passed outwardly through the slits, and may be secured together within the coat and at the back thereof when not passed outwardly through the slits.

1,686,578. MOTOR SUPPORT OR SUSPENSION. FREDERIC W. SLACK, Cleveland, Ohio, assignor to Peerless Motor Car Corporation, Celeveland, Ohio, a Corporation of Virginia. Filed July 6, 1926. Serial No. 120,615. 8 Claims. (Cl. 180—64.)



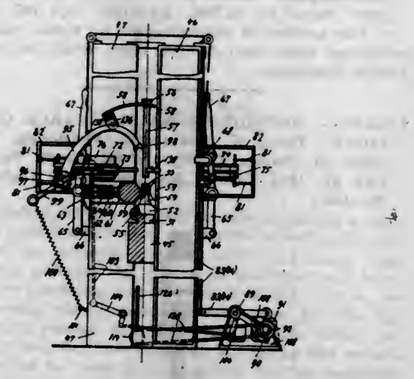
1. In combination with a chassis frame and motor, a suspension for the motor comprising diagonally disposed parallel abutments rigidly supported upon said frame and motor respectively, yieldable material interposed between said abutments, and hold-downs for said motor abutments.

1,686,579. CIGARETTE AND CIGAR LIGHTER. HENRY P. STAATS and HARRY S. NEWCOMER, New York, N. Y. Filed Feb. 4, 1927. Serial No. 165,850. 2 Claims. (Cl. 219—32.)



1. An ignition unit for use as a cigarette and cigar lighter including a body of insulating material having a central recess, a centrally disposed support extending from the bottom of said recess and having a depression in its outer end, conducting plates secured to the sides of said support, and heating wires secured to said plates and projecting across the outer end of said support and depression therein in spaced relation thereto whereby said wires will avoid contact with the support when pressure is applied to the wires by the end of the cigarette or cigar.

1,686,580. LOOM. MORITZ STEINLIN and WALTER HOLDEREGGER, St. Gallen, Switzerland. Filed Apr. 14, 1927, Serial No. 183,835, and in Switzerland Apr. 22, 1926. 8 Claims. (Cl. 139—18.)

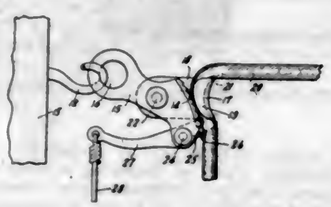


1. A loom for manufacturing cane and like fabrics having a sliding warp carrying beam above which are provided preferably tubular swing guides for the warps, pusher elements, sliding rails movable transversely of the guides and coacting with said pusher elements for swinging the said guides alternately in opposite directions, devices for supplying the weft-material, and mechanism located above the said beam and entering between the warp guides for the purpose of uniformly beating-up the weft-material supplied each time, all substantially as hereindescribed and illustrated.

1,686,581. ROPE CLAMP. WALTER H. STEWART, Quincy, Mass. Filed Apr. 4, 1928. Serial No. 267,411. 2 Claims. (Cl. 24—133.)

1. A rope clamp comprising an inner jaw having a curved gripping face and a shank from one end of which the jaw projects laterally, the opposite end of the shank being adapted to be engaged with a supporting member, an outer jaw having a curved face opposed to the gripping face of the inner jaw, a shank from which the outer jaw projects laterally, and an ear, cooperating with the shank in laterally confining a rope on the jaw, one end of the

outer jaw constituting a bearing across which a rope may be bent, and a pivot connecting an end portion of the outer jaw shank with a portion of the inner jaw shank, between the inner jaw and a support with which the shank of said jaw is engaged the inner jaw being eccentric to said pivot, the arrangement being such that when a rope is interposed between the jaws, bent across the bearing end

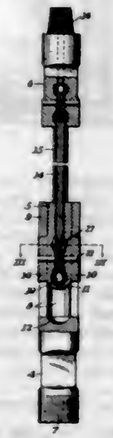


of the outer jaw, and tensioned, the opposed faces of the jaws form opposite sides of a tapering throat which is contractible by pressure of the tensioned rope on the bearing edge, to grip the interposed portion of the rope, the outer jaw being displaceable by a swinging movement of its shank on the pivot to widen said throat and release the rope, said jaws, shanks, and pivot being arranged to constitute a toggle.

1,686,582. PROCESS FOR DESTROYING CACTI. HUGO STOLTZENBERG, Hamburg, Germany. Filed Oct. 20, 1925. Serial No. 63,768. 2 Claims. (Cl. 167—45.)

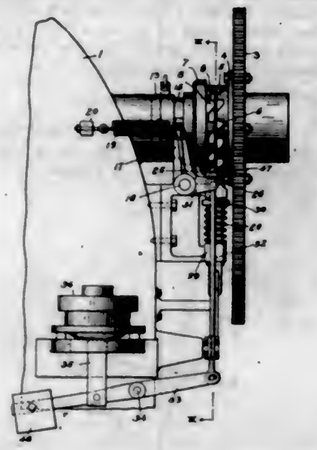
1. The process of destroying cacti, which consists in subjecting such cacti to the toxic action of aromatic arsenic compounds.

1,686,583. METHOD OF MAKING CABLE CONNECTIONS. DAVID K. TEMPLETON, Pittsburgh, Pa., assignor to Charles R. Bryson, Pittsburgh, Pa. Filed July 27, 1927. Serial No. 208,768. 1 Claim. (Cl. 29—148.)



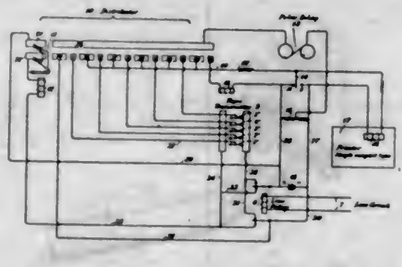
In the method of attaching a member to a cable, the steps consisting in inserting a spreader between the strands of a cable for spreading the cable, inserting the spread portion of the cable and the spreader into an opening in the member, passing a fastening device from the member into the spread portion of the cable for replacing the spreader, and then forcing the member into close engagement with the fastening device and spread portion of the cable.

1,686,584. CLUTCH. GEORGE P. THOMAS, Glenshaw, Pa. Filed May 8, 1925. Serial No. 28,797. 2 Claims. (Cl. 192—24.)



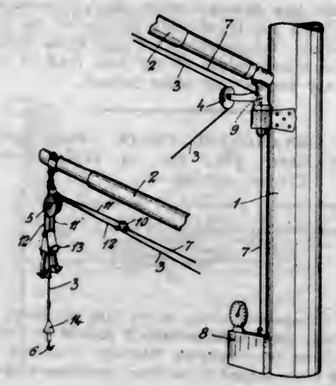
1. In a clutch mechanism, the combination with a rotatable driving member provided with a toothed clutch element, a driven member, a toothed clutch ring mounted on said driven member for rotation with it and for longitudinal movement on it to and from engagement with said clutch element and provided with a laterally extending lug; of means for yieldingly maintaining said ring in clutch-breaking position, positive means for moving said ring into clutch-making position against the resistance of said first-named means, a pawl yieldingly urged into the annular path of said lug for moving the clutch ring from engagement with said clutch element, connections between said pawl and said positive ring-moving means for moving the pawl from the longitudinal path of said lug before said ring is moved longitudinally into clutch-making position, and means for breaking said connection after said ring has been moved longitudinally into clutch-making position.

1,686,585. TELEGRAPH CIPHER SYSTEM. GILBERT S. VERNAM, River Edge, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 31, 1925. Serial No. 66,114. 3 Claims. (Cl. 178—22.)



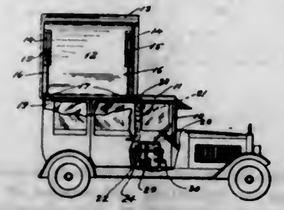
1. The method of deciphering and receiving a secret message, which consists in combining the electrical effect of the received impulses with the effect of the electrical conditions representing a deciphering character to produce electrical impulses representing the message character, and causing said message character impulses to individually and sequentially operate a single responsive device.

1,686,586. ARRANGEMENT FOR WEIGHING GOODS IN A HANGING POSITION. LARS GUNSTEIN WAHL, Oslo, Norway. Filed Feb. 18, 1926, Serial No. 89,153, and in Norway Feb. 19, 1925. 6 Claims. (Cl. 265—52.)



1. An arrangement for weighing goods in a hanging position including in combination, a supporting member embodying spring pressed grippers, a scale wire for suspending the grippers, a hoisting wire and a locking member in operable connection with the hoisting wire for cooperating with the spring pressed grippers in such manner that after a certain lifting movement by the hoisting wire the load is released so that the locking member will settle upon the grippers to effect weighing of the load and after the load is weighed the locking member is raised in order to be disengaged from the grippers while the latter automatically spring open to allow the hoisting wire to again take the load.

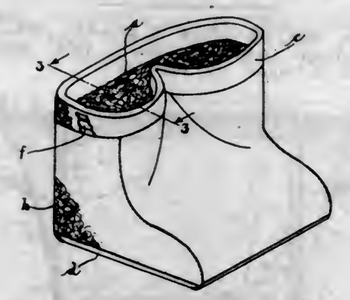
1,686,587. AUTOMOBILE ROOF. LEOPOLD WEISS, New York, N. Y. Filed Jan. 29, 1927. Serial No. 164,590. 1 Claim. (Cl. 296—137.)



In combination with a closed, motor driven vehicle, a hinged top portion extending from the rear of the vehicle to the driver's compartment, said top portion having peripheral overhanging edges adapted to prevent moisture from entering the interior of the vehicle, a shaft extending beneath the hinged edge of the top, a plurality of levers keyed to said shaft, a plurality of lever guides attached at the inner face of said top, the free ends of said levers provided with hinged slides adapted to register with said guides, the latter having means for preventing disengagement of said slides from said guides, a hand operable drive arrangement connected with said shaft and adapted to be operated from the driver's seat.

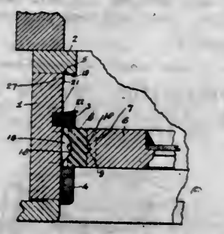
1,686,588. FOOT MUFF. ERNEST R. WENDEMUTH, Glen Ridge, N. J. Filed Sept. 16, 1927. Serial No. 219,948. 3 Claims. (Cl. 2—65.)

1. A foot muff embodying therein, the combination with a lining and an exterior decorative cover shaped to receive both feet of a wearer, of a resilient loop contracted medially of the sides thereof and supported adjacent the top of the muff, whereby said top will be held in a normally distended position at opposite sides of the medial contraction of said loop, and normally contracted adjacent said



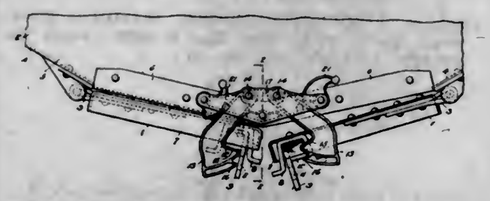
medial contraction, and the open top of the muff will yield to permit the insertion of the feet through the top thereof, and thereafter automatically close about the legs of the wearer.

1,686,589. DOUBLE-SLIDING REVERSIBLE WINDOW. RALPH B. WILSON, Pittsburgh, Pa. Filed May 22, 1925. Serial No. 32,070. 2 Claims. (Cl. 20—49.)



1. In sliding windows, a pair of sliding sashes, a parting strip positioned between the sashes extending the full length of the window opening, outer and inner stops respectively adjacent the runway of the upper and lower sashes also extending the full length of the window, resilient means placed alongside each edge for the full length of the parting strip, and other metallic strips positioned against the inner faces of the inside and outside stops adapted to form bearing surface for the respective sashes.

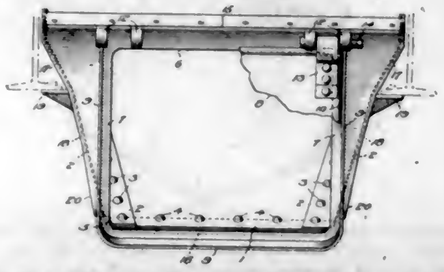
1,686,590. DOOR MECHANISM FOR RAILWAY CARS. WILLIAM E. WINE, Toledo, Ohio. Filed Apr. 16, 1923. Serial No. 632,414. 7 Claims. (Cl. 105—308.)



1. In a car door mechanism, the combination with a hinged door having an outstanding marginal flange, of a channel member secured to the under side thereof in inverted U position with the legs of the channel substantially normal to the door, an angle iron secured to said channel member within the channel thereof, said angle iron being bent intermediate its ends, one end thereof projecting beyond the adjacent edge of the door, the procumbent leg of the projecting portion of said angle iron being in a

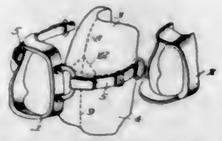
plane substantially parallel to the plane of the door, and means mounted upon a stationary part of the car and operating in a plane normal to said procumbent leg for engaging the latter to support said door in closed position.

1,686,591. HOPPER-CAR-DOOR FRAME. WILLIAM E. WINE, Toledo, Ohio. Filed Nov. 6, 1926. Serial No. 146,716. 5 Claims. (Cl. 105—249.)



1. In a railway car, the combination with a hopper having side sheets and an inclined floor sheet, of an integral door frame rigidly secured to the hopper side sheets and floor sheet in a position forming an angle with the vertical, said frame having a cargo discharge opening and being formed with door seat portions bordering the sides and lower edge of said opening and with sealing flanges projecting outwardly from said seat portions in spaced relation to said opening.

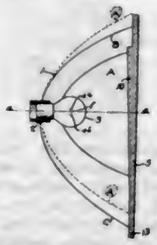
1,686,592. RESPIRATOR. WILLIAM H. WOOD, South Euclid, Ohio. Filed Feb. 18, 1925. Serial No. 10,140. 19 Claims. (Cl. 128—195.)



1. A medicating respirator comprising a space-enclosing member adapted to be applied over a respiratory passage, said member having one or more passages therethrough, and a composition of matter located in said space adapted to react with the products of exhalation to produce evolution of a germicidal gas.

4. In a respirator, a hollow supporting member having a passage therethrough for inhalation and exhalation products, and a porous member in said passage having portions impregnated with the dried residue of a solution of bleaching powder.

1,686,593. VEHICLE HEADLIGHT. WILLIAM H. WOOD, South Euclid, Ohio. Filed May 8, 1926. Serial No. 107,582. 4 Claims. (Cl. 240—41.)



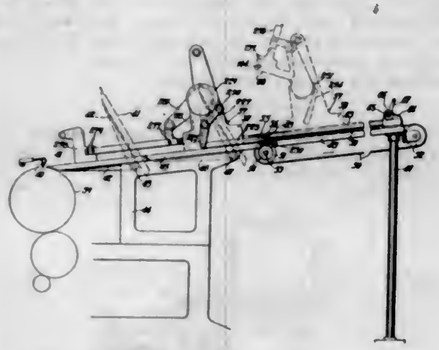
1. In a vehicle headlight, the combination of a reflector having at its two lateral portions a pair of opposed paraboloid segments whose axis is substantially horizontal, said reflector having its upper and lower median portions leaned downwardly as compared with the surface of the paraboloid defined by said lateral portions, a lamp bulb located in such axis and having two independently usable, vertically spaced filaments, and a lens in front of said deflector, said lens having vertical flutes terminating coextensively with the translucent portion of the lens at top and bottom, the curvature of said flutes being less adjacent the lateral edges of the lens than at regions nearer the top and bottom edges thereof.

1,686,594. ORNAMENTAL CHAIN. JOHN ANTHONY, Attleboro, Mass. Filed Apr. 18, 1927. Serial No. 184,600. 3 Claims. (Cl. 63—2.)



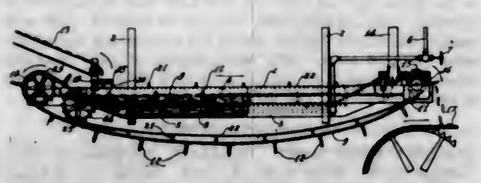
1. In an ornamental chain of the type set forth, a flexible wire mesh body substantially S shaped in cross section comprising interengaging laterally connected hollow spiral loops interengaged in torsional positions and closely adhering to each other.

1,686,595. SHEET FEEDER. ELMER W. BELLUCHE, Racine, Wis., assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y., a Corporation of New York. Original application filed Mar. 12, 1925, Serial No. 14,891. Divided and this application filed Jan. 22, 1927. Serial No. 162,708. 26 Claims. (Cl. 271—28.)



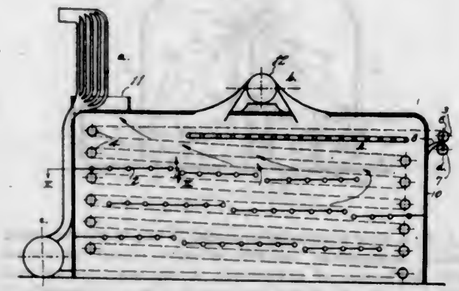
1. In a sheet-feeder, an oscillatable feed-member, coacting rock-gears for oscillating said member in both directions, and means controlled by the advanced sheet for disengaging said member from said gears during the forward movement of said member.

1,686,596. BAKERY MACHINERY. CHARLES F. BETZ, St. Louis, Mo. Filed Nov. 21, 1925. Serial No. 70,575. 10 Claims. (Cl. 53—7.)



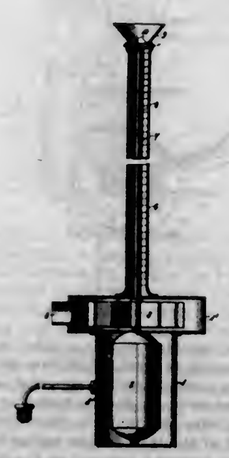
9. In the art of baking, the method comprising, forming the product to be baked, submerging the product by its own weight in a treating bath, to prepare same prior to subsequent baking, heating the submerged product in the bath while moving the same along the bath until it rises and floats therein, and removing the product from the bath for baking.

1,686,597. DIFFERENTIAL DRYING MACHINE. WILHELM BOCK, Lansdale, Pa. Filed Mar. 16, 1925. Serial No. 16,017. 4 Claims. (Cl. 34—48.)



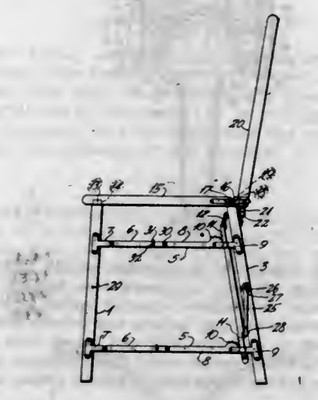
1. A web drying machine comprising a housing, a blower for conveying a continuous current of air through said drying machine, a plurality of partition plates, said plates arranged in an angular position to each other and with longitudinal spaces between the different plates, a plurality of steam heating coils connected with said partition plates permitting the drying air to be heated and passed partially through the machine in direction of the drying material and partially through said spaces between the partition plates in vertical direction to the drying material for getting sufficient rotation of the drying air and a complete contact with the material to be dried.

1,686,598. MASSAGE IMPLEMENT. CHARLES BROADBENT, Atlantic City, N. J., assignor of one-half to Harry Lincoln Parker, Germantown, Pa. Filed Aug. 23, 1924. Serial No. 733,786. 2 Claims. (Cl. 128—56.)



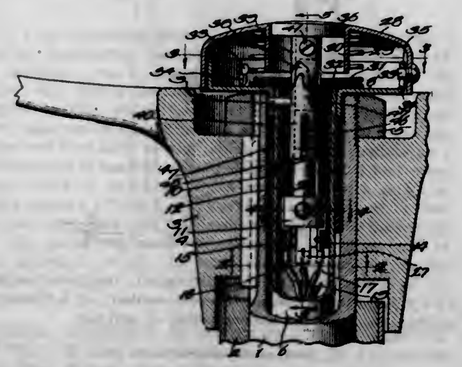
1. A massage implement, comprising a casing, an electric motor within the casing, a suction fan within the casing adapted to be driven by the motor, a hollow tube secured to the casing adjacent the fan, a rotary drive cable located within the tube having its inner end connected to the motor, and a massage cup at the outer end of the tube and cable, said cup having openings communicating with the interior of the tube and being rigidly connected to the cable to rotate therewith.

1,686,599. FOLDABLE CHAIR. FRANK CORSER and WASYL PEACH, Junkins, Alberta, Canada. Filed Oct. 14, 1927. Serial No. 226,066. 7 Claims. (Cl. 155—148.)



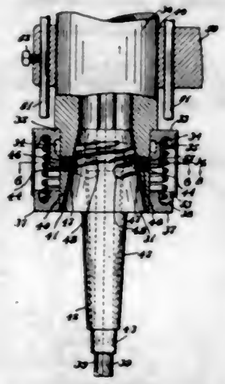
3. A foldable chair comprising a rear leg unit, a back hinged to said rear leg unit, and a seat mounted on said back, said seat including front and rear members foldably connected together, the foldable members of said seat being adapted normally to engage the upper end of the legs of said rear leg unit thereinbetween.

1,686,600. COMBINED LIGHTING AND SIGNALING MECHANISM FOR AUTOMOTIVE VEHICLES. GEORGE L. CRAGG, Chicago, Ill., assignor to Harry A. Douglas, Bronson, Mich. Filed May 6, 1927. Serial No. 189,301. 9 Claims. (Cl. 74—39.)



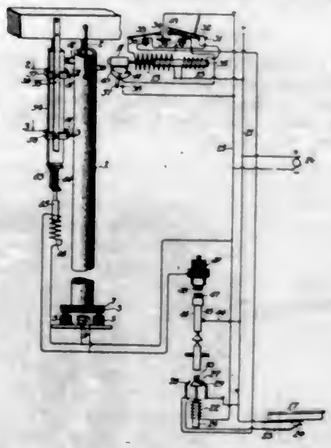
8. The combination with the steering shaft of an automotive vehicle; of a hand wheel coupled with said shaft for turning the shaft; a signaling circuit; a lighting circuit; switching means in controlling relation to the signaling circuit and inclusive of an operating push button disposed at the front side of said wheel; and switching means in controlling relation to the lighting circuit and inclusive of another button, the first aforesaid button surrounding the second.

1,686,601. CHUCK. ARTHUR L. CURRIER, New Ipswich, N. H. Filed Mar. 30, 1927. Serial No. 179,459. 5 Claims. (Cl. 279—74.)



1. A chuck comprising a rotatable spindle having a tapered opening therein, a tapered tool holding spool adapted to enter said tapered opening, spiral grooves in said spool, arcuate holding, locking and driving members in said spindle, to cooperate with and engage said spiral grooves, and means to permit radial disengagement of said members from locking engagement to permit release of said spool.

1,686,602. SOUND-PRODUCING INSTRUMENT. JOHN C. DEAGAN, Chicago, Ill., assignor to J. C. Deagan, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 29, 1927. Serial No. 222,793. 11 Claims. (Cl. 84—405.)

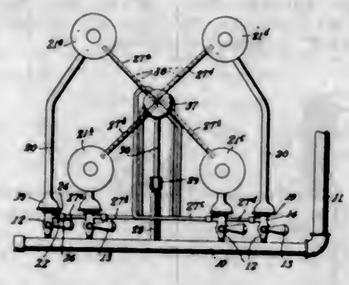


5. In a sound producing instrument, the combination with a bar that is oblong in cross section; of a hammer mounted to strike the narrower side of said bar.

1,686,603. METHOD OF WELDING HIGH-CARBON STEEL. JOHN H. DEPPELER, Weehawken, N. J., assignor to Metal & Thermit Corporation, Carteret, N. J., a Corporation of New Jersey. Filed Aug. 29, 1925. Serial No. 53,428. 6 Claims. (Cl. 22—204.)

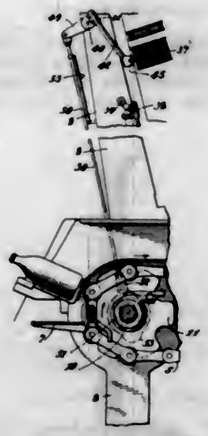
4. The method of welding high carbon steel bodies which comprises interposing a thin body of low carbon iron between the elements and butt welding the adjacent surfaces of said bodies by contact with molten aluminothermic metal.

1,686,604. SELECTIVE IGNITER FOR MULTIPLE GAS BURNERS. WILLIAM F. DESTER, Newark, N. J., assignor to U. S. Tool Co., Inc., East Orange, N. J., a Corporation of New Jersey. Filed Apr. 20, 1927. Serial No. 185,124. 2 Claims. (Cl. 158—115.)



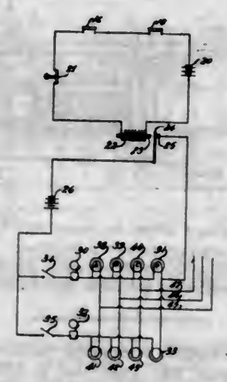
1. In a pilot burner for a plurality of gas burners each having independent controls, a pilot burner connected with the source of gas supply, a cup surrounding said pilot burner, a perforate cap over said cup, a plurality of pipes one for each main burner arranged over said cap and provided with perforations, said pipes having controllable connections with the gas supply source at one end and extending to the main burners at their opposite ends, and a cover over said pipes and pilot burner.

1,686,605. LABELING MACHINE. EDWARD EAMOLD, New York, N. Y. Original application filed Jan. 6, 1926, Serial No. 79,526. Divided and this application filed July 30, 1926. Serial No. 125,849. 4 Claims. (Cl. 216—2.)



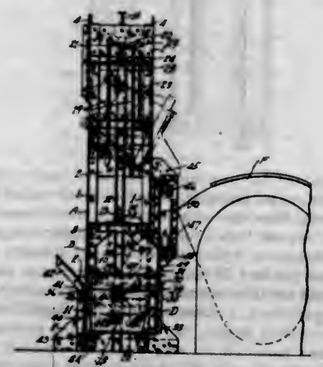
1. In a labeling machine having a label magazine and a label picker operable to singly withdraw the labels from said magazine, an arm pivotally supported at one of its ends above the magazine, a dating stamp carried by the other end of said arm and movable therewith across the path of movement of the label picker, means for positively moving said stamp carrying arm out of the path of movement of the label picker as the latter is moved to its label receiving position, and additional means for moving said arm in the opposite direction after the label picker is withdrawn from label receiving position to engage said dating stamp with the outermost label contained in the magazine.

1,686,606. ELEVATOR SIGNAL SYSTEM. MARTIN J. FINNEGAN, New York, N. Y., assignor to Elevator Supplies Company, Inc., Hoboken, N. J., a Corporation of New Jersey. Filed July 15, 1927. Serial No. 205,997. 7 Claims. (Cl. 177—336.)



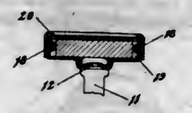
1. In an elevator signal system, a signal, means adapted when set into action for operating said signal after the lapse of a predetermined time period, means for setting said means into action as an incident to the stopping of the elevator, including means for nullifying the action of the first mentioned means if the elevator is started before the expiration of said period.

1,686,607. BAKER'S MACHINERY. WALTER L. FREUND and FREDERIC B. MENNER, St. Louis, Mo. Filed Oct. 8, 1925. Serial No. 61,289. 2 Claims. (Cl. 214—122.)



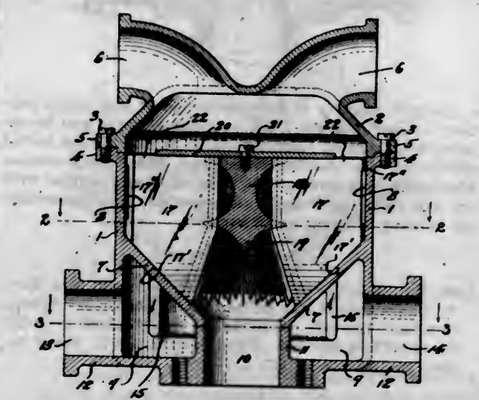
1. In a machine of the class described, in combination, a stationary frame-work, a carriage adapted for travel longitudinally of the frame-work, means for actuating the carriage longitudinally of the frame-work, trackways fixed on the carriage and disposed transversely to the frame-work, a trough-carrying and dumping member disposed within the carriage, rollers mounted upon the ends of said member and fitting in said trackways for supporting said member for movement both with the carriage longitudinally of the framework and swingably relatively to the carriage and frame-work, said rollers being adapted for movement on said trackways for shifting the point of connection between the carriage and said member during movement of the carriage and said member longitudinally of the frame-work, and means including interengageable members upon the frame-work and said member for effecting pivotal actuation of said member relatively to the carriage and frame-work during travel of the carriage longitudinally of the framework.

1,686,608. KEY-BUTTON ASSEMBLY. MAX GARBELL, Chicago, Ill., assignor to Victor Adding Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 13, 1926. Serial No. 148,246. 1 Claim. (Cl. 197—102.)



A key button assembly comprising a cuplike member positioned on the end of a key lever, positioning lugs struck inwardly from said cup member, and a character-bearing member having grooves formed in the side thereof to correctly co-operate with the positioning lugs in said cup to facilitate the assembly of said members.

1,686,609. VAPORIZER. ERNEST ROBERT GODWARD, New York, N. Y., assignor to The Eclipse Petrol Economiser System Company, Limited, Christchurch, New Zealand, a Corporation of New Zealand. Filed Oct. 22, 1926. Serial No. 143,382. 10 Claims. (Cl. 48—180.)

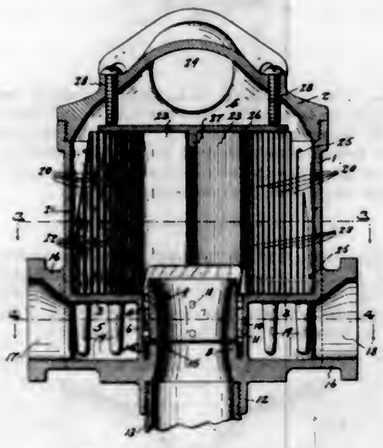


1. In a vaporizing device a vaporizing chamber having a central carburetted fuel mixture inlet extending upwardly thereinto and a vaporized fuel mixture outlet at its upper end, and a centrally sloping bottom heating-plate heated by the exhaust gases of the engine, said bottom plate converging upon said fuel mixture inlet to drain unvaporized fuel back to the latter, a member comprising a multiplicity of spaced radially disposed vertical plates the lower edges of which are fitted to contact with said centrally sloping bottom heating-plate to receive heat by conduction from the latter, and means engaging the inner ends of said plates and means intermediate the outer ends of said plates to retain the same in spaced apart passage forming relation.

1,686,610. PROCESS OF PRODUCING DRY GASEOUS FUEL. ERNEST R. GODWARD, New York, N. Y., assignor to The Eclipse Petrol Economiser System Company, Limited, Christchurch, New Zealand, a Corporation of New Zealand. Filed Oct. 23, 1925. Serial No. 64,476. 9 Claims. (Cl. 48—180.)

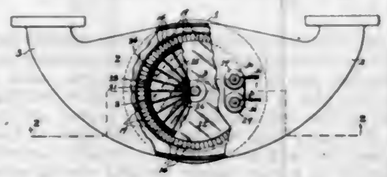
1. A process of producing a substantially dry gaseous fuel and air mixture from an initial mechanical mixture of air and entrained particles of volatile liquid fuel, comprising initially retarding the velocity of the fuel mixture, and then dividing the stream of said initial mixture into a multiplicity of free unimpeded moving thin streams of relatively great surface area compared to the thickness

thereof to which a centrifugal radially directed movement is imparted, contiguous to relatively extended contact surfaces disposed in a substantially vertical plane whereby liquid fuel particles entrained in said divided streams may deposit themselves on said surfaces so as to gravitate thereon, and subjecting said deposited and gravitating liquid particles to heat transmitted along said contact surfaces in



a direction opposite to the gravitation of said liquid particles to evaporate the latter in the presence of and for reunion with later on coming portions of said divided initial mixture stream, and finally reuniting said divided streams when freed from entrained liquid particles and charged with the vaporized liquid fuel constituents returned thereinto for delivery to the place of use.

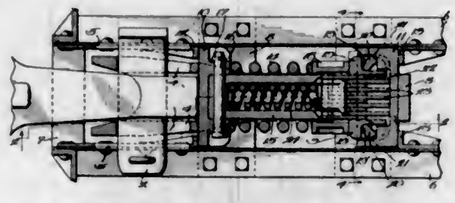
1,686,611. VAPORIZER. ERNEST R. GODWARD, New York, N. Y., assignor to The Eclipse Petrol Economiser System Company, Limited, Christchurch, New Zealand, a Corporation of New Zealand. Filed June 11, 1927. Serial No. 198,115. 3 Claims. (Cl. 219—38.)



1. In a vaporizer including a chamber containing a multiplicity of comparatively narrow fuel mixture passages bounded by thin metallic vertical walls adapted to receive and conduct heat transferred thereto, means for transferring heat to said walls for upward conduction therethrough during normal running conditions, a top-plate means in contact with said walls, and an electric heating means associated with said top-plate means to serve as a preheater under cold starting conditions, and means for connecting said heating means in an electric circuit.

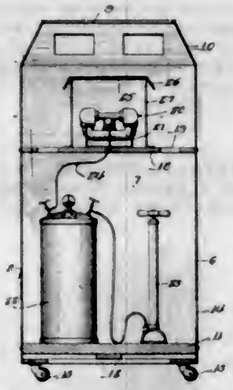
1,686,612. FRICTION DRAFT GEAR. SOREN HANSSON, Butler, Pa. Filed Dec. 17, 1925. Serial No. 76,081. 8 Claims. (Cl. 213—22.)

1. A friction draft gear including two members cooperating to produce friction, one subject to buffing action of the gear and the other to pulling action of the gear; two blocks between which said friction producing members are disposed, said blocks being movable toward each other to press each of said friction producing members against the other; two toggle levers, one individual to each block; fulcrum supports for said levers; an application spring, means whereby said spring is operable by draft strains to



move said blocks and levers to cause said blocks to press said friction producing members together; and a release spring, also subject to draft strains, pressing upon one of the friction producing members in a releasing direction.

1,686,613. PORTABLE HEATING CABINET. OTTO E. HEISSER, Chicago, Ill. Filed Dec. 8, 1926. Serial No. 153,246. 1 Claim. (Cl. 126—93.)

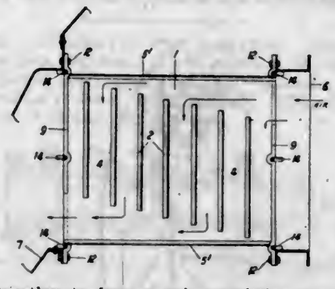


An air heater for heating the air in a room comprising, in combination, an upright cabinet, a solid transverse partition intermediate the ends of said cabinet completely dividing said cabinet into an upper and a lower compartment, said cabinet having a plurality of warm air outlet openings in the upper portion of the upper compartment and a plurality of cold air inlet openings in the lower portion of the lower compartment, a pressure-operated liquid-fuel burner system positioned within the cabinet, said system including a burner mounted on said partition centrally thereof and a liquid fuel supply and pressure tank connected thereto and enclosed within said lower compartment, a baffle-plate mounted in said upper compartment overlying said burner in a plane beneath said air outlet openings and having its edges spaced from the side walls of said upper compartment, and a pair of doors in one wall of the cabinet opening respectively into the upper and lower compartments to give access to said burner and tank equipment, said partition having a series of openings therethrough encircling said burner to effect the flow of air from the lower compartment upwardly around all sides of the burner and baffle-plate and thence through said outlet openings at the top of said cabinet.

1,686,614. AIR HEATER. JAMES HOWDEN HUME, Glasgow, Scotland. Filed Jan. 25, 1927, Serial No. 163,331, and in Great Britain Dec. 30, 1926. 1 Claim. (Cl. 257—245.)

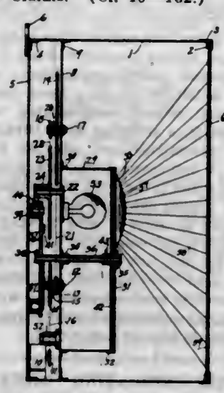
An air heater comprising a plurality of spaced plates having ribs serving to space the plates, the plates and ribs

forming the walls of cells to be traversed by hot gases and by air to be preheated, each plate forming the base of a row of cells on each side, and means for clamping said



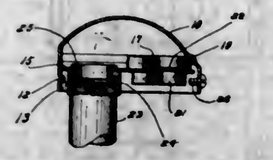
plates together to form a unit permitting removal of at least one of said plates without disturbing the remaining plates.

1,686,615. VARIEGATED AND CHANGEABLE COLOR SIGN. PETER BALNOJAN, Pancevo, Yugoslavia, assignor to John Yahraus, Karl Goettl, and John Goettl, trustees, Mansfield, Ohio. Filed May 2, 1927. Serial No. 188,314. 18 Claims. (Cl. 40—132.)



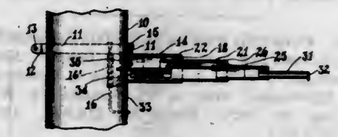
1. In a changeable and variegated color sign, a sign plate, means to change the color of the sign plate, a globe, a switch controlling the illumination of the globe, means to flash on and off the switch connected to the globe that illuminates the sign whereby different and variegated colors of the sign can be shown from fading out to an intense glow as and for the purpose described.

1,686,616. CONDUIT END FITTING. FREDERICK I. JOHNSON, Warren, R. I., assignor, by mesne assignments, to George W. Johnson, Boston, Mass. Filed Sept. 15, 1922. Serial No. 588,502. 3 Claims. (Cl. 247—6.)



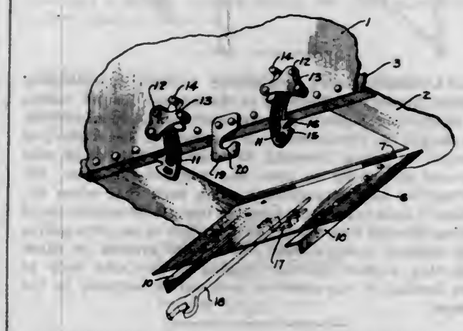
1. A conduit end fitting comprising a plate having a hole therein located inwardly from the peripheral edge thereof, an insulating bushing having a reduced portion of substantially the size of said hole extending from the inner side of said plate outwardly through said hole, a cap over the plate and bushing and engaging said bushing to secure it in said hole against inward movement, and means for securing said fitting to a conduit end.

1,686,617. FUME GUARD FOR COOKING RANGES. JOSEPH JURALEWICZ, Meriden, Conn. Filed Aug. 23, 1927. Serial No. 214,802. 3 Claims. (Cl. 126—299.)



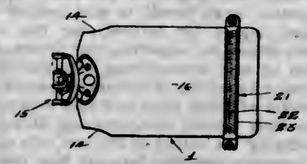
1. The combination with a flue pipe having an aperture in the side thereof, of a stationary rear canopy section rigidly mounted on said flue pipe above said aperture, extensible canopy sections mounted on said stationary canopy section, a door pivotally mounted on the side of said flue pipe adapted to close the aperture therein, and a link operatively connected at one end to said door and at the other end to one of said extensible canopy sections adapted to raise said door when said extensible sections are moved forwardly for uncovering the aperture in said flue pipe and to lower said door when said extensible canopy sections are moved rearwardly for closing said aperture.

1,686,618. CAR-DOOR MECHANISM. BYERS W. KADEL, Baltimore, Md. Filed May 24, 1923. Serial No. 641,064. 9 Claims. (Cl. 105—308.)



1. A railway car having a lading discharge opening, a door for closing said opening movable to open position under the influence of gravity, means secured to the door for accommodating a removable door-closing member so that by application of an upward force to the said removable member the door may be raised to a partially closed position, and a member on the car body for thereafter cooperating with the said removable member so that by application of a downward force to the latter the door may be raised from the partially closed position to fully closed position.

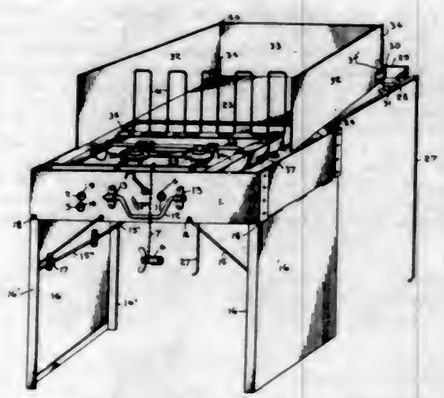
1,686,619. SHIRT-PRESSING MACHINE. CHARLES B. KILBY and MAURICE REINITZ, Brooklyn, and ALBERT B. CLISSON, Syracuse, N. Y., assignors to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 8, 1926. Serial No. 80,081. 1 Claim. (Cl. 68—9.)



A pressing machine for pressing coats, shirts and the like, comprising pressing elements, one having relative movement toward and from the other, one of said elements being a buck and the other a press head; and the

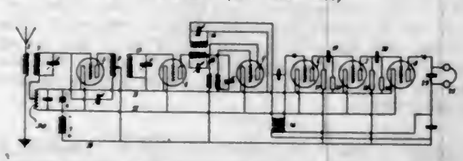
head and the buck being of oblong form, said buck having a tapered end portion provided with means for holding a neck band and having at the inner end of the tapered portion cut outs at the shoulder corners of the buck.

1,686,620. FOLDING PORTABLE-STOVE FRAME. WALTER C. LINDEMANN and ADOLPH W. BENSON, Milwaukee, Wis., assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 23, 1927. Serial No. 214,804. 16 Claims. (Cl. 126—38.)



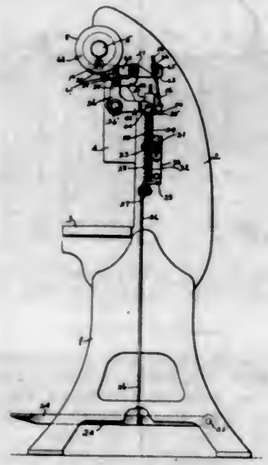
16. A folding stove comprising a rigid substantially rectangular body frame open at its top and bottom, means for supporting burners therein above said open bottom, legs hinged to the lower end portions of the body and arranged to swing inwardly to close the bottom of said body and outwardly to open and support the same, the construction and arrangement being such that when the legs are in open supporting position there is an unobstructed opening through which any fuel drippings or matters spilled from cooking utensils may fall to the ground or other supporting surface without lodging in the said body to cause fouling of the same or combustion exterior to the burners.

1,686,621. RADIO RECEIVING CIRCUIT. SIEGMUND LOEWE, Berlin, Friedenau, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Nov. 12, 1926, Serial No. 147,971, and in Germany Oct. 21, 1925. 1 Claim. (Cl. 250—20.)



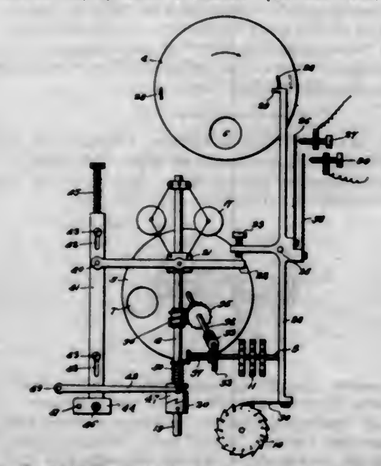
In radio receiving apparatus, a tunable input circuit; a radio frequency amplifier comprising a vacuum tube having a control electrode, a cathode and an anode; a source of potential for energizing the cathode of said tube; a resistance across said source of potential; connections from said tunable input circuit to said control electrode and resistance; means for heterodyning the output of said amplifier; means for amplifying the intermediate frequency caused by said heterodyning, said last mentioned means comprising a plurality of resistance coupled amplifier tubes, a plurality of which have grid leak resistances connected across their control electrodes and filaments; and means for reflexing the output of the last tube of said intermediate frequency amplifier into the first tube of said intermediate frequency amplifier, said intermediate frequency amplifier being thereby utilized for amplifying and detecting intermediate frequency oscillations and for amplifying the resulting audio frequency oscillations.

1,686,622. TRIPPING MECHANISM FOR PUNCH PRESSES. JAMES E. LOSHBOUGH, Elkhart, Ind. Filed Dec. 4, 1925. Serial No. 73,268. 5 Claims. (Cl. 192—25.)



1. In a power press, the combination with a driven shaft, a driving wheel, a spring pressed locking bolt adapted for alternate engagement and disengagement with said driving wheel, and a tiltable locking lever adapted to alternately retract and release said locking bolt, of a cam on said driven shaft, a tripping lever tiltably mounted intermediate its extremities and adapted to be tilted by said shaft cam, a bell-crank lever, actuating linkage connecting said bell-crank lever with said locking lever, spring means normally urging said bell-crank lever for actuating said locking lever to retract said locking bolt, a spring pressed foot-pedal, a rod connected with said pedal, detent means carried by one arm of said bell-crank lever and engageable with said foot-pedal rod, and disengaging means operatively connecting said detent means with said tripping lever for disengaging said detent means from said rod when said tripping lever is tilted by said cam.

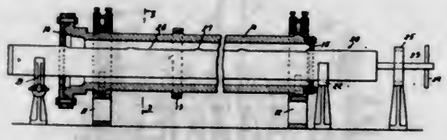
1,686,623. SPEED-INDICATING MECHANISM FOR VEHICLES. CARLOS DE MALHERBE, Buenos Aires, Argentina. Filed Feb. 24, 1925, Serial No. 11,321. Renewed July 2, 1928. 9 Claims. (Cl. 235—96.)



1. Speed-indicating mechanism, comprising a driving shaft; a governor thereon; a transmission shaft; gearing connecting the two shafts; a register; a register shaft;

a normally-open driving connection between the transmission shaft and the register shaft; a member under the direct control of the governor; and an element under the control of said member for closing said driving connection.

1,686,624. APPARATUS FOR CASTING. WILLIAM H. MILLSPAUGH, Sandusky, Ohio, assignor to The Paper and Textile Machinery Company, Sandusky, Ohio, a Corporation of Ohio. Filed Sept. 26, 1922. Serial No. 590,602. 7 Claims. (Cl. 22—65.)



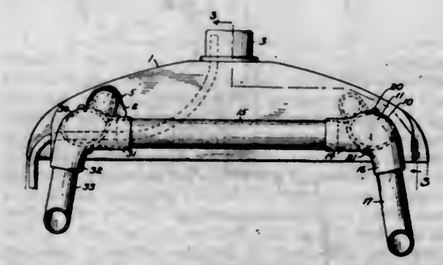
1. A filling device for casting machines which consists of a rotatively supported trough arranged to hold material in a fluid condition, said trough being constructed to form a plurality of spaced openings through which the material may be poured when the trough is turned on its axis of rotation.

1,686,625. ATTACHMENT FOR ARTIFICIAL TEETH UPON BRIDGE WORK. ALBERT D. MIZZY, New York, N. Y. Filed June 14, 1927. Serial No. 198,810. 2 Claims. (Cl. 32—9.)



1. The combination with an artificial tooth having a recessed groove, of a T-shaped anchor having means for fastening to a bridge and comprising a shank, and a head pivoted intermediate its ends to the shank to move about the pivot in the plane of the shank and the head and adapted to be received in the recessed groove in the tooth.

1,686,626. STIFFENING MEMBER FOR AUTOMOBILE RADIATORS. WELLINGTON W. MUIR, Lockport, N. Y., assignor to Harrison Radiator Corporation, Lockport, N. Y. Filed Oct. 13, 1926. Serial No. 141,318. 12 Claims. (Cl. 257—125.)



4. A pair of fittings for automobile radiators provided with a tank, each fitting constituting means to stiffen said tank at opposite sides thereof, as well as constituting means to supply cooling fluid to a plurality of locations in said radiator, and each fitting further constituting means to support an element cooperating with said radiator, both of said fittings adapted to be connected to the engine to constitute a brace for each side of said radiator.

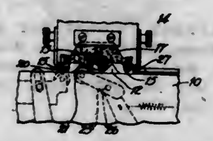
1,686,627. TYPEWRITER. FRIEDRICH WILHELM MÜLLER, Dresden, Germany. Filed Jan. 22, 1925. Serial No. 3,938. 1 Claim. (Cl. 197—1.)

In a typewriter, a movable carriage, a plurality of types having characters thereon of a width greater than the distance that the carriage moves each time a type is printed, and mechanism for moving said carriage so that the form of a printed character is altered on either side



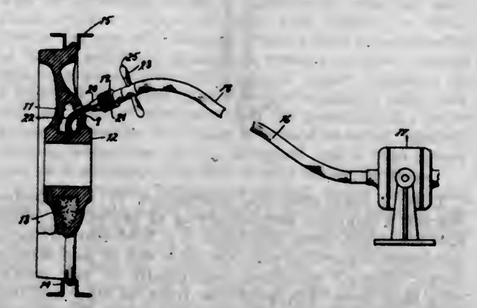
thereof by the printing of another character next thereto which has a portion printed within the space occupied by the first named character.

1,686,628. BANDING MACHINE. OTTO MULLER, Richmond Hill, N. Y., assignor, by direct and mesne assignments, to Kneber Muller Company, Inc., New York, N. Y., a Corporation of New York. Filed July 9, 1925. Serial No. 42,450. 5 Claims. (Cl. 131—61.)



1. In cigar banding apparatus, means for holding a band partly surrounding a cigar, said band having adhesive material at one end, means for bending one end of the band against the cigar, a roller for bending and pressing the other end against said first end, and means for heating said roller.

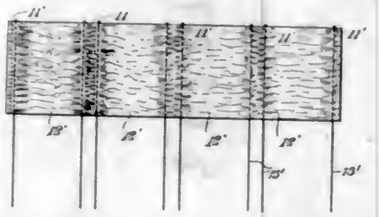
1,686,629. DEVICE FOR REMOVING SAND FROM METAL CASTINGS. DANIEL C. MULVIHILL, Hannibal, Mo. Filed Jan. 19, 1925. Serial No. 3,347. 1 Claim. (Cl. 15—198.)



A device for loosening sand cores in hollow metal castings, comprising a flexible shaft, means for operating said shaft, a long flexible tool formed from a single length of

twisted wires, a head on the end of said shaft for securing the end of said tool thereto, whereby said tool may be inserted through a core hole in a casting with the head on the outside of said casting, for loosening said core and reducing the same to loose sand, and a handle member on said shaft adjacent to said head.

1,686,630. TEXTILE FABRIC AND METHOD OF PRODUCING THE SAME. EMILE M. LOVEMAN, Flushing, N. Y., assignor to Loveman Brothers, a Firm consisting of Emile M. Loveman and Richard V. Loveman, New York, N. Y. Filed Jan. 7, 1927. Serial No. 159,613. 6 Claims. (Cl. 139—384.)



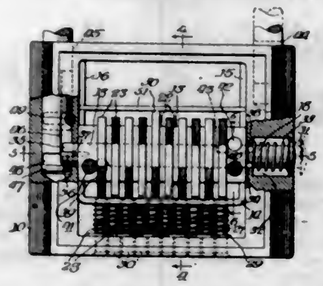
1. As an article of manufacture, a woven fabric comprising a plurality of bands of different textures and provided with a plurality of spaced, freely pullable warp threads, said threads being of a coarser texture than the threads making up the main portion of the fabric, and being substantially positioned at the bounding lines of said bands of different textures.

1,686,631. HEADREST. ADAM J. MAY, Rochester, N. Y., assignor, by mesne assignments, to Ritter Dental Mfg. Company, Inc., Rochester, N. Y., a Corporation of Delaware. Filed May 18, 1923. Serial No. 639,884. 13 Claims. (Cl. 155—177.)



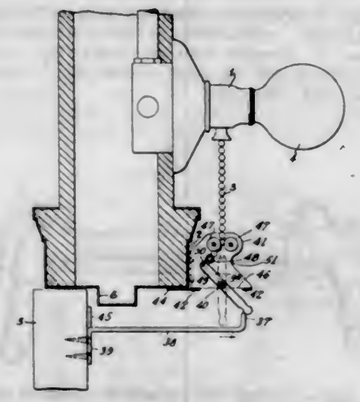
1. In a head rest, the combination of a supporting bracket, a columnar member having at one end an adjustable connection with said bracket, a head rest having an adjustable connection with the other end of said member, thrust elements extending longitudinally in said member with their inner ends spaced one from the other and their outer ends adjacent said adjustable connections, respectively nonrotatable, wedge means interposed between said inner ends for a transverse sliding movement between said elements to bring their outer ends into clamping cooperation with said adjustable connections, and manipulative means including a pivotal element adapted to slide said wedge means transversely between said thrust elements.

1,686,632. PERMUTATION PADLOCK. GEORGE F. MAYER, Chicago, Ill. Filed Feb. 14, 1927. Serial No. 167,885. 7 Claims. (Cl. 70—113.)



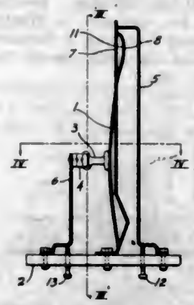
2. A permutation padlock comprising in combination, a casing, a bow, a locking member, said locking member having a longitudinal opening therein and a plurality of spaced ribs thereon, a locking bolt having a plurality of ribs thereon, and a plurality of tumblers mounted between the ribs on said locking member and adapted to engage the locking bolt when in locked position, and having downwardly extending portions alongside of said locking member but spaced therefrom, whereby the said locking tumblers are slidably positioned upon said locking member.

1,686,633. SWITCH-OPERATING MEANS. AUGUST M. MELAHN, Brooklyn, N. Y. Filed June 8, 1927. Serial No. 197,375. 9 Claims. (Cl. 200—54.)



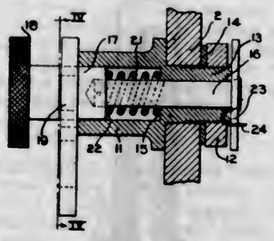
1. In apparatus of the character disclosed, a switch operating lever member adapted for operative connection with a switch actuating pull, a casing in which said lever is pivoted and projecting lugs on said casing engageable over a predetermined portion of a door frame to thereby position the lever in definite predetermined relation for its proper operation and a bracket attachable to a door in predetermined position to actuate said lever, said bracket having positioning means by which the same is located on the door in proper position to actuate the switch operating lever member when the casing of that member is positioned by its lugs in its predetermined location on the door frame.

1,686,634. THERMOSTATIC REGULATOR. AUGUST J. MOTTLAU, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 10, 1924. Serial No. 736,813. 14 Claims. (Cl. 297—15.)



1. In a thermostat, a thermo-responsive device comprising at least two integral portions having different thermo-responsive characteristics and thermo-responsive adjusting means for changing the critical operating point of both portions.

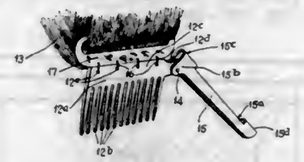
1,686,635. ELECTRICAL MEASURING INSTRUMENT. WALTER G. MYLIUS, Wilkinsburg, and BERT G. LA BAR, Turtle Creek, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 31, 1927. Serial No. 179,842. 7 Claims. (Cl. 116—129.)



1. A pointer-reset device for an electrical measuring instrument having a pointer and a cover, comprising, a tubular supporting member having an inner portion thereof provided with a shoulder and an outer portion thereof provided with a shoulder and a threaded bushing adapted to fit an opening in the cover, a nut adapted to engage the threaded bushing and secure the supporting member to the cover, a member for separating the nut from the cover, a rotatable member adapted to be slidingly supported within the tubular member, the said rotatable member having a knurled end portion, slotted side portions and a shoulder, a spring adapted to resiliently separate the shoulder of the rotatable member from the shoulder in the inner portion of the tubular member, a member having an inner portion adapted to slidingly engage the slotted side portions of the rotatable member and an inner portion adapted to slidingly engage the periphery of the rotatable member, and a member secured to an end of the rotatable member whereby engagement with the pointer may be effected.

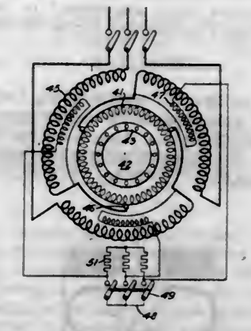
1,686,636. HAIR PIECE. JESSE OPPENHEIM, New York, N. Y. Filed Jan. 4, 1928. Serial No. 244,406. 12 Claims. (Cl. 132—53.)

1. A hair piece for covering short, natural hair regions of a coiffure, comprising an attachment means for engaging with the short hair of said region, and a tuft of hair carried by said means, said tuft having a fold portion extending from one side of said means and folded over



the top and opposite side of said means for retaining said tuft in form to simulate the natural hair, and to completely conceal said attachment means.

1,686,637. ALTERNATING-CURRENT MOTOR. LAURENCE M. PERKINS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 24, 1925. Serial No. 25,585. 14 Claims. (Cl. 172—280.)

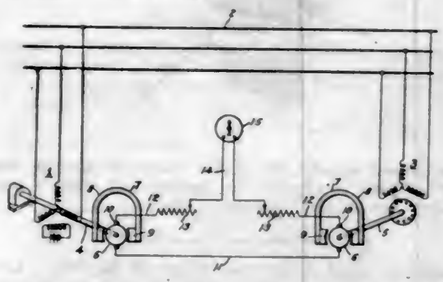


1. An alternating-current, dynamo-electric machine comprising primary and secondary members, primary phase windings on said primary member, a commutator winding on said secondary member, a plurality of brushes co-operating with said commutator winding, said primary phase windings being connected in series with said brushes, means providing closed-circuited induced-winding connections on said secondary member, and switching means for establishing auxiliary winding connections on said primary member providing a shunt exciting circuit connected to said brushes.

2. In an alternating-current motor, the combination with an armature having a commutator winding, polyphase brushes cooperating with said winding, a stator member having polyphase windings, means for connecting at least a portion of said stator winding in series relation with said commutator winding, and supply terminals for a plurality of points of said stator windings, said windings and brushes being arranged for operation as a series motor, of means providing a closed-circuited induced-winding connection on said armature and a star connection on a plurality of points of said stator windings.

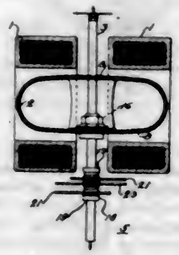
3. A polyphase alternating-current motor comprising primary and secondary members, a polyphase winding having supply terminals on said primary member, a winding having a commutator on said secondary member, a plurality of brushes cooperating with said commutator, means for connecting at least a portion of said primary winding and said brushes for operation as a series motor, a high reactance, low-resistance closed-circuited winding connection on said secondary member, and means for, at times, connecting a portion of said primary winding in shunt to said brushes.

1,686,638. SLIP INDICATOR. RAYMOND T. PIERCE, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 24, 1921. Serial No. 455,250. 2 Claims. (Cl. 172—245.)



1. The combination with a plurality of movable members comprising an alternating current generator and an induction motor of means responsive to movement of each of said members for effecting an electromotive force in accordance with movement thereof, and a single circuit including an electro-responsive indicating device traversed by an electromotive force proportional to the difference between said first electromotive forces for actuating the indicating means.

1,686,639. ELECTRICAL MEASURING INSTRUMENT. RAYMOND T. PIERCE, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1923. Serial No. 638,625. 11 Claims. (Cl. 171—95.)



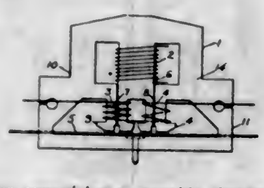
1. An electrical measuring instrument, comprising a coil, a single shaft extending substantially normal to the magnetic axis, and through opposite sides thereof, means constituting a laterally extending shoulder on the shaft against which only one side of the coil rests and means longitudinally movable on the shaft for clamping said side against said shoulder.

1,686,640. TIRE TOOL. WINSLOW S. PIERCE, Jr., Bayville, N. Y. Filed July 6, 1927. Serial No. 203,706. 6 Claims. (Cl. 81—5.1.)



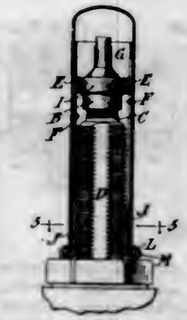
2. A tire tool comprising two members pivoted intermediate their ends, each of said members having a jaw, a knurled shoulder portion extending at right angles from said jaw, and a handle spaced from said jaw and extending from said shoulder portion, said shoulder portion having a lip projecting beyond said handle.

1,686,641. WATTHOUR METER. ARGYLE R. RUTTER, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 16, 1925. Serial No. 62,751. 13 Claims. (Cl. 171—264.)



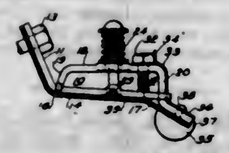
1. A meter comprising a movable element, a magnetizable core and windings on said core energized in accordance with different quantities of a circuit for actuating the element, one of said windings including two divisions having different numbers of turns in series circuit relation with the circuit.

1,686,642. COMBINED VALVE CAP AND DUST CAP. MAXIMILIAN CHARLES SCHWEINERT, New York, N. Y., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed May 20, 1922. Serial No. 562,502. 14 Claims. (Cl. 152—12.)



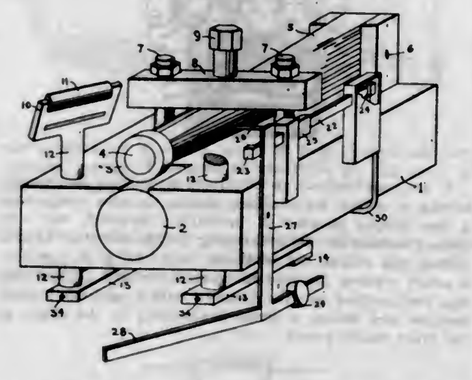
1. A combined valve cap and dust cap, comprising a dust cap having an interior sleeve provided with grooves and a valve cap having lugs sliding in said grooves.

1,686,643. CONTACT FINGER. OTTO P. SCHUSTER, North Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1926. Serial No. 127,731. 4 Claims. (Cl. 200—166.)



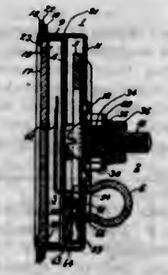
1. In a contact finger, in combination, a base member, a contact-carrying member pivotally mounted on the base member, resilient means for retaining the contact-carrying member in position on the base member, said contact-carrying member having an opening in its outer end, a contact member having a stud formed thereon, mounted on the contact-carrying member, the stud projecting through the opening and a shoulder formed on the contact member and disposed to engage the end of the contact-carrying member to retain the contact member in a predetermined position.

1,686,644. MACHINE FOR SEAMLESS CANS. ARTHUR W. SPAULDING, Oakland, Calif. Filed July 5, 1927. Serial No. 203,527. 4 Claims. (Cl. 80—13.)



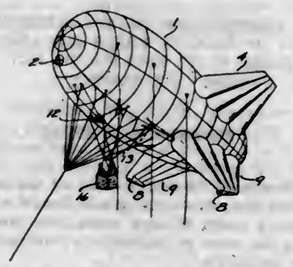
1. A machine for the manufacture of seamless cans comprising rollers suitably mounted in bearings, an adjusting screw for regulating the pressure between said rollers, guides governing the angle at which the tube for the seamless wall of the can is fed between the rollers, and means for reversing the angle of the guides so that the tube will be fed back out of the machine.

1,686,645. ELECTRICAL MEASURING INSTRUMENT. VICTOR H. TODD, Summit, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 20, 1924. Serial No. 733,052. 3 Claims. (Cl. 171—95.)



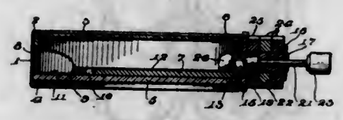
3. An electrical measuring instrument comprising a scale plate having portions shaped to provide an opening in which a pointer moves and an opening extending from said opening to the perimeter of the plate, a shaft having a portion disposed substantially normal to the plane of the plate behind said extending opening, a bearing for the shaft having a portion substantially fitting said extending opening flush with the front surface of the plate, and a pointer on the shaft having end portions on opposite sides of the plate and an intermediate portion extending through said first opening.

1,686,646. KITE BALLOON. RALPH H. UPSON, Detroit, Mich. Filed July 3, 1926. Serial No. 120,265. 14 Claims. (Cl. 244—4.)



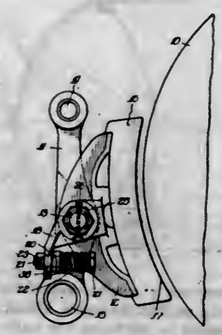
1. A kite balloon having a main elongated body portion inflated with buoyant gas, a ballonet and a main air scoop therefor, a plurality of inflatable fins maintained radially from the balloon surface in a wedge shape with their bases attached to the main body, and with walls held in shape by direct internal pressure extending wedge-shaped to the fin tip.

1,686,647. POCKET-GOLF GAME. MAURICE ALLAND, Atlantic City, N. J. Filed Jan. 10, 1928. Serial No. 245,673. 4 Claims. (Cl. 273—119.)



1. A game, comprising a casing having a bottom provided with a recess, and provided at one side with an aperture seat, a casing for a propelling member secured to said first casing in alignment with said aperture, a reciprocatory member movable in said second casing and adapted to strike and impel a ball positioned in said seat towards said recess, and a disc bearing indicia and rotatably carried by said second casing to indicate the number of times said propelling mechanism is actuated in placing the ball in said recess.

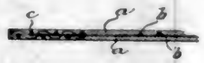
1,686,648. BALANCING DEVICE FOR BRAKE HEADS. WALTER H. BASELT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 18, 1927. Serial No. 184,511. 6 Claims. (Cl. 188—212.)



1. The combination of a brake hanger, a brake head pivotally connected thereto, an arm mounted to turn with the brake head through a limited movement relative to the

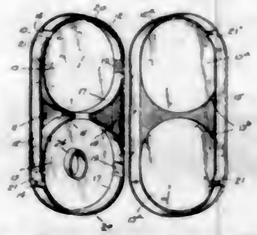
hanger, and a compression spring of limited compressibility between said hanger and arm, said spring being adapted to seat and form a non-compressible column between said hanger and arm.

1,686,649. REENFORCED TRANSPARENT SHEET AND PROCESS OF MAKING THE SAME. MITTIE TAYLOR BRUSH, Dublin, N. H. Filed Feb. 26, 1927. Serial No. 171,330. 6 Claims. (Cl. 91—68.)



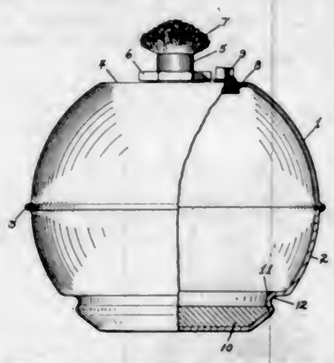
1. The process of making a sheet of the character described which comprises forming a meshwork of fine spring wires within a border of sized woven fibre threads and incorporating the wires so framed in a transparent sheet of a cellulose derivative.

1,686,650. FILM HOLDER. GASTON L. CHANIER, Jersey City, N. J., assignor to Pathe Exchange, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 21, 1926. Serial No. 143,084. 3 Claims. (Cl. 242—71.)



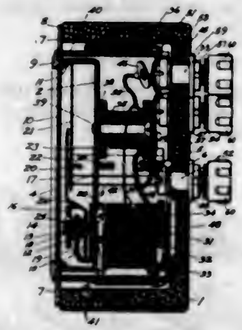
1. In a film holder, the combination with a closed container, of a detachable interior wall operating to form a curved passage for film from one section of the holder to another, said wall being detachable for permitting access to the curved passage for the purpose of cleaning the same.

1,686,651. CONSTRUCTION TORCH. LYMAN W. CLOSE, Toledo, Ohio, assignor to The Toledo Pressed Steel Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 24, 1926. Serial No. 150,404. 1 Claim. (Cl. 67—81.)



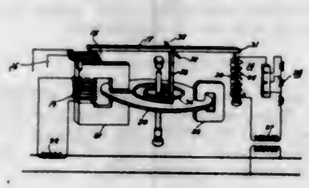
The method of securing a counter-weight in the bottom of a sheet metal body section having a closed end and an open end which consists in confining the outer side of the body and a portion of the innerside, and pressing the closed end toward the open end thereby to form a bead over the counter-weight for securing the latter against displacement.

1,686,652. ELECTRICAL MEASURING INSTRUMENT. JAMES H. CONE, Roseland, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 20, 1927. Serial No. 227,405. 3 Claims. (Cl. 171—95.)



1. In combination, an electrical measuring instrument having a casing, an auxiliary device therefor comprising a cup shaped member of insulating material, said cup shaped member having an opening for the reception of said casing and means for retaining said casing in position, a coiled resistor for said instrument secured to said casing, and another resistor disposed within said cup shaped member and having a shape conforming to the shape of the inner walls thereof.

1,686,653. ELECTRICAL PROTECTIVE RELAY. LESLIE N. CRICHTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 26, 1923. Serial No. 641,701. 9 Claims. (Cl. 175—294.)

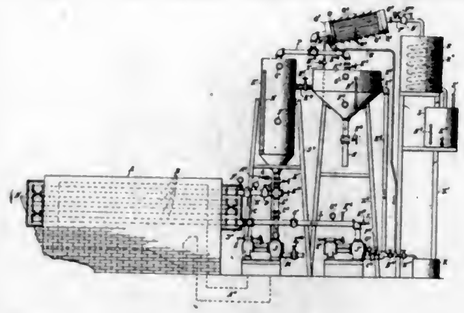


1. In an electrical system, a protective relay embodying two operating coils energized from the circuit and means for counterbalancing their effects comprising a pivoted lever contact, an induction disc subject to the influence of one coil for controlling the lever in one direction and a movable restraining member subject to the influence of the other coil for opposing the operation of the lever.

1,686,654. METHOD FOR TREATING HYDROCARBON OILS. CARBON P. DUBBS, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Original application filed Apr. 15, 1925, Serial No. 23,389, which in turn is a division of Serial No. 595,743, filed Oct. 20, 1922, the latter being a continuation of Serial No. 208,206, filed Dec. 21, 1917. Divided and this application filed Aug. 18, 1928. Serial No. 300,519. 5 Claims. (Cl. 196—47.)

1. A process for the conversion of hydrocarbon oils, which consists in heating a mass of relatively heavy hydrocarbon oil to a cracking temperature above the boiling point of the complex chemical constituents of said heavy oil under sufficient pressure to prevent vaporization of said chemical constituents, introducing said heated oil into

a zone of lower pressure in such a manner as would permit vaporization of said chemical constituents and checking the dissociation of said heated oil by the regulated



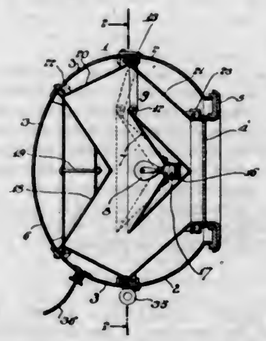
introduction of a cooler mass of hydrocarbon oil into physical contact therewith substantially at the point of vaporization.

1,686,655. HANGER. BEN BROWN ELLERBECK, Salt Lake City, Utah. Filed Feb. 28, 1927. Serial No. 171,526. 2 Claims. (Cl. 24—249.)



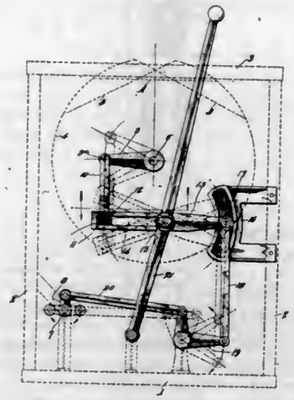
1. In an article of manufacture, the combination of a sheet metal clasp and a wire formed approximately in the shape of a plane isosceles triangle, the base of which is rotatably held in the sheet metal clasp, and the ends of the wire terminating some distance apart midway along one of the adjacent sides, as and for the purpose described.

1,686,656. HEADLIGHT. WILLIAM L. GEDDES, Montclair, N. J. Filed Feb. 17, 1927. Serial No. 168,875. 8 Claims. (Cl. 240—41.)



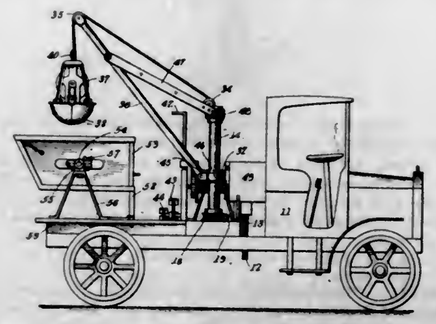
1. A light projector comprising a source of light, reflecting means having a concave reflecting surface and a convex reflecting surface, said reflecting means forming a shield preventing direct projection from said projector of light rays generated by said source, reflecting means having a convex reflecting surface to which light rays are projected from said source of light and said concave reflecting surface, and reflecting means by which rays from said second named convex reflecting surface are projected upon said first named convex reflecting surface, said first named convex reflecting surface projecting a beam from said projector.

1,686,657. WASHING MACHINE. BENJAMIN E. GETZ, Morton, Ill., assignor, by mesne assignments, of one-half to Getz Power Washer Co., Morton, Ill., a Corporation of Illinois, and one-half to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1923. Serial No. 631,971. 2 Claims. (Cl. 74—14.)



1. In a machine of the character described, in combination with a tub mounted for movement, an operating means, means connecting said operating means with said tub, including a slotted lever, guiding means for one end of said lever, an operator's lever, and means connecting said operator's lever with said slotted lever and slidable in said slot, whereby the fulcrum point of said slotted lever may be changed, and thereby place said slotted lever alternately in neutral and tub operative position.

1,686,658. CATCH-BASIN CLEANER. EDWARD P. HEALEY, New York, N. Y. Filed Sept. 13, 1922. Serial No. 587,929. 2 Claims. (Cl. 214—65.)



1. A catch basin cleaner comprising a truck, a hoisting device arranged thereon and comprising a hollow mast, a boom in fixed relation with said mast, a bucket supported

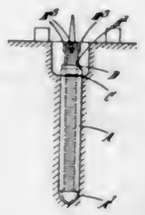
at the end of said boom, a plurality of cables for hoisting and lowering said bucket and operating said bucket, all extending through said hollow mast, a container removably mounted on said body, and power-driven means for rotating said mast for causing said bucket to pass over said container and to cause said boom to extend outward from said truck body.

1,686,659. DEFLATING VALVE CAP. ROBERT H. HENEMIER, New York, N. Y., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 10, 1922, Serial No. 580,943. Renewed Mar. 3, 1928. 8 Claims. (Cl. 152—12.)



3. In combination with a tire valve cap having a hollow projection with a slot cut in the side thereof, of a deflator comprising a disk having a hollow externally-threaded projection engageable with the internal threads of a tire valve and provided with an inturned lip on the end thereof to engage a valve stem of said tire valve to depress the same when said threads are engaged, the projection of the deflator engaging over the projection of the cap with the inturned lip extending through the slot, whereby the deflator and cap are held in assembled relation.

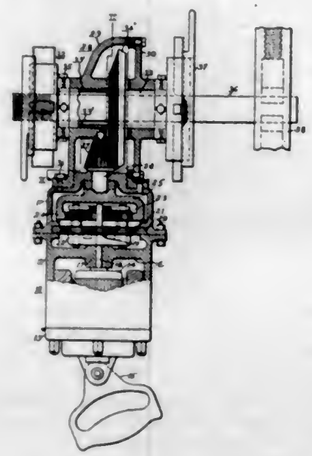
1,686,660. CONSTRUCTION OF CONCRETE PILES. ALFRED HILEY, Rickmansworth, England, assignor to The British Steel Piling Company, Limited, Westminster, England, a British Company. Filed Nov. 14, 1927, Serial No. 233,239½, and in Great Britain Oct. 29, 1926. 3 Claims. (Cl. 61—57.)



1. A method of constructing concrete piles which comprises depositing a mass of plastic concrete in a hole in the ground, allowing said concrete to set to form a pilot pile, driving said pilot pile into the ground until a sufficiently firm stratum is reached and then filling the hole formed by the pilot pile with plastic concrete and allowing it to set.

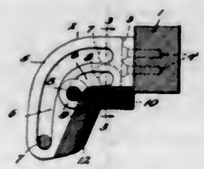
1,686,661. PIPE-THREADING MACHINE. WALTER H. HIMES, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 8, 1926. Serial No. 107,814. 3 Claims. (Cl. 10—89.)

2. In a portable threading machine in combination, a main casing, a motor and motor driven train of gears carried by the casing, a bevelled pinion gear driven by the train of gears, said pinion extending beyond the casing, an auxiliary casing adapted to be removably mounted on the main casing, a sleeve rotatably mounted in the auxiliary casing, a set of stocks and dies and a pipe guide



mounted on opposite ends of the sleeve and a bevelled ring gear fixed to the sleeve between the guide and dies, said ring gear being disposed to engage the pinion when the auxiliary casing is mounted in position on the main casing.

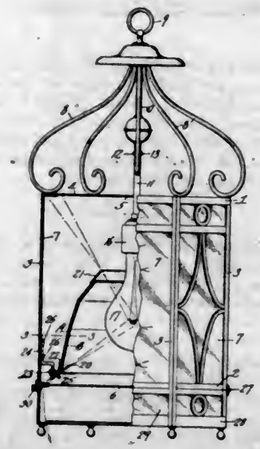
1,686,662. SHUTTLE GUARD. ALBERT G. HOFAMMANN, Allentown, Pa. Filed Dec. 18, 1925. Serial No. 76,192. 3 Claims. (Cl. 139—193.)



2. A shuttle guard for a loom comprising a pair of spaced brackets designed for attachment to said loom, each bracket being provided with a plurality of separate slots, each slot including a smooth horizontal or shelf portion and a forwardly and downwardly curved portion, the downwardly curved portion of one slot terminating substantially above the end of the downwardly curved portion of the other slot, a pluralityof independently operable rods having ends of substantially circular cross section extending between said brackets with said ends arranged in said slots, said rods being free to move relative to each other and to said brackets in said slots so that each rod will automatically seek its operative position in the downwardly curved portion of the slot in which it is mounted when the loom is started.

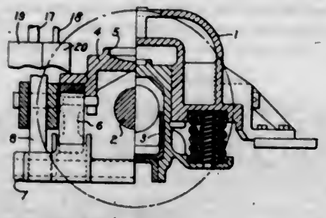
1,686,663. LAMP FIXTURE. JAMES T. HOLMES, Jamaica, N. Y., assignor to The Frink Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 30, 1926. Serial No. 157,982. 8 Claims. (Cl. 240—78.)

1. In a lamp-fixture, the combination with a lamp-housing provided with an annular translucent plate in its top wall, of a lamp arranged within said housing, a plurality of overhead supports connected together at their upper ends and at their lower ends to the outer edge of the top of said housing, a lamp-support depending from the upper connected ends of said overhead supports thru



the central opening in said annular translucent plate, and a reflector for said lamp provided with an aperture presented downwardly away from said annular plate and with an opening around said lamp-support, said opening being arranged to permit the passage of direct light rays from said lamp to said annular plate.

1,686,664. GUIDE TRUCK. HAROLD A. HOUSTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 16, 1925. Serial No. 62,754. 9 Claims. (Cl. 105—189.)

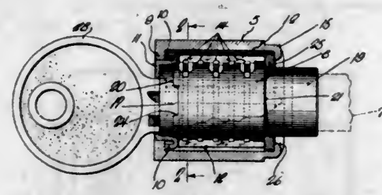


1. In a railway vehicle guide truck, the combination with a truck frame, of a swing bolster, a movable support associated therewith, tension links pivoted to said frame and support, compression links disposed between said bolster and said support, and means for locking said support to said frame.

1,686,665. LOCK. EDWARD N. JACOBI, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 18, 1926. Serial No. 155,627. 9 Claims. (Cl. 70—46.)

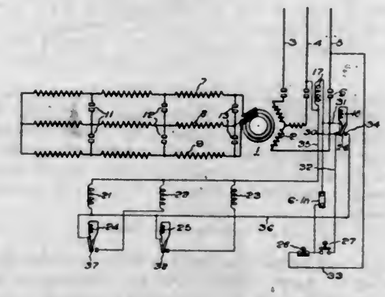
1. A device of the character described, comprising a shell having a longitudinal bore therein, a flange at the outer end portion of the shell extending into its bore, the inner wall of the shell having longitudinal grooves therein communicating with an annular counterbore adjacent the flange, a tumbler cylinder adapted to be inserted in the shell from the rear end thereof, lugs carried by the outer end portion of the cylinder and spaced apart to correspond with

the intervals between the shell grooves, the lugs passing through the grooves when the cylinder is placed in the shell and rotating in the annular counterbore, said lugs and



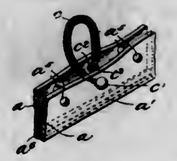
flange preventing outward movement of the cylinder in the shell, and means preventing rearward movement of the cylinder in the shell.

1,686,666. MOTOR-CONTROL SYSTEM. HENRY D. JAMES, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 25, 1925. Serial No. 52,290. 8 Claims. (Cl. 172—289.)



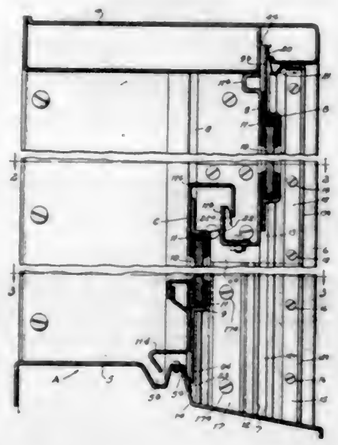
1. The combination with a motor and a starting resistor therefor, of a switch for controlling said motor comprising an operating electromagnet and temperature-controlled means comprising a winding inductively related to said electromagnet for controlling said resistor.

1,686,667. SKATE SCABBARD. HARRY H. KASKEY, Chicago, Ill. Filed Apr. 26, 1927. Serial No. 186,629. 1 Claim. (Cl. 208—183.)



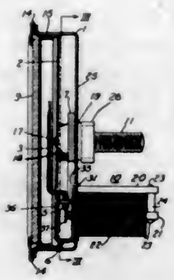
In a scabbard for ice skates, said scabbard being formed with an open end and a closed end for co-operation with the toe of a skate, a series of apertures formed in the scabbard adjacent the open end thereof, a plurality of buttons having eyes adapted to extend through said apertures, a coil spring, means on the ends of the spring for co-operation with the eyes of the buttons, whereby the spring may be adjustably positioned at different points along the length of the scabbard, the tension of the spring and the closed end of the scabbard co-operating to removably hold the scabbard in position upon the skate.

1,686,668. WEATHER-STRIPPED METAL WINDOW. ALFRED M. LANE, St. Louis, Mo., assignor to Monarch Metal Products Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 11, 1927. Serial No. 182,561. 16 Claims. (Cl. 189—65.)



1. The combination with a window comprising upper and lower sliding sashes and jamb members provided with guide slots in which said sashes slide, of weatherproofing means for the joints between the upper sash and the portions of the guide slots normally occupied thereby and for the normally unoccupied portions of said last mentioned guide slots.

1,686,669. ELECTRICAL MEASURING INSTRUMENT. JOSEPH W. LEGO, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 26, 1925. Serial No. 58,815. 13 Claims. (Cl. 171—95.)



7. An electrical measuring instrument comprising a movable element, a field-magnet core member therefor and a bearing support for the element projecting from an end of the core member and having a portion fitting said end.

1,686,670. SOLID FLAVORING MATERIAL. HERBERT T. LEO, Corona, Calif. Filed Oct. 28, 1926. Serial No. 144,913. 7 Claims. (Cl. 99—11.)

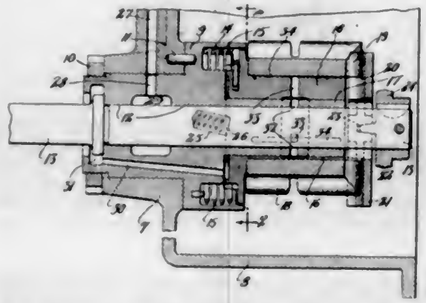
1. A non-hygroscopic substance comprising substantially pure crystalline dextrose having the natural flavor of a fruit.

1,686,671. PLASTER BOARD. ALEXANDER S. SPEER, Buffalo, N. Y., assignor, by mesne assignments, to United States Gypsum Company. Filed Nov. 29, 1920. Serial No. 427,044. 4 Claims. (Cl. 154—45.9.)



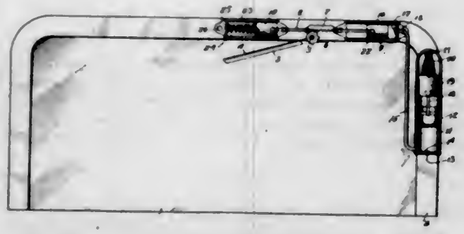
1. A fabricated board composed of a plastic material and facings of fibrous material, the edges of the board being reinforced with insets of fibrous material between the facings and secured thereto to close the space between the facings and to hold the plaster in place and to provide nailing edges, the insets being composed of laminated material and the lamina being secured together.

1,686,672. AUTOMATIC COMPENSATING SPROCKET. FRED C. THOMPSON, Detroit, Mich., assignor to Morse Chain Company, a Corporation of New York. Filed Mar. 10, 1924. Serial No. 698,018. 6 Claims. (Cl. 308—14.)



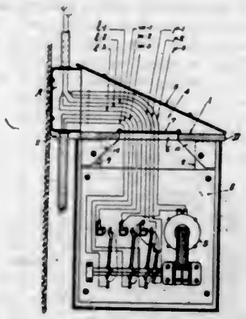
3. A tension adjuster for endless chains comprising in combination with a shaft to be driven, a frame, a sprocket wheel, a driving connection between said wheel and said shaft, a non-rotatable mounting detachably secured to said frame, and means for shifting the centre of the sprocket wheel, said means being rotatable on said mounting and removable with the mounting without disturbing the shaft.

1,686,673. WINDSHIELD WIPER. HARRY R. VAN DEVENTER, New York, N. Y. Filed June 10, 1924. Serial No. 719,141. 8 Claims. (Cl. 15—253.)



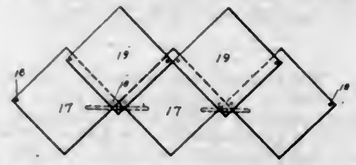
1. A windshield wiper mounted on a vehicle and comprising a bar carrying a wiping strip, a member to actuate said strip, a piston to move said member in one direction, a pumping cylinder to supply air under pressure to operate said piston, a yieldingly suspended weight to be actuated by irregularities of motion of said vehicle, said weight being associated with said pumping cylinder, a spring to be compressed by the piston and a valve permitting the spring to move the bar in the opposite direction.

1,686,674. SUPPORT FOR ELECTRICAL APPARATUS. LOUIS LARSEN, East Orange, N. J., assignor to Sundh Electric Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 26, 1924. Serial No. 758,138. 5 Claims. (Cl. 247—9.)



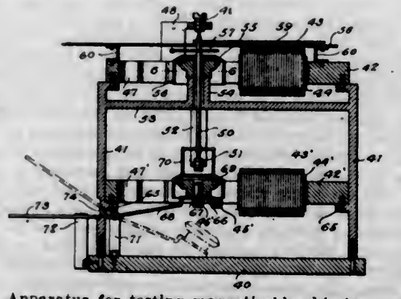
5. The combination of an electrical control device, a support and enclosure for the control device, a standard junction box, and means included in the said support and enclosure whereby it may be supported adjacent to and independent of the junction box to form also a closure for the box and for wires extending to and from the control device into the box.

1,686,675. SHINGLE FASTENER. CORTLANDT F. AMES, Jr., Mount Vernon, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Jan. 31, 1924. Serial No. 689,702. 6 Claims. (Cl. 108—8.)



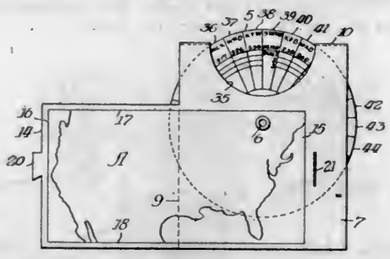
1. A shingle retaining member comprising a flat strip of substantially uniform width and a wider but shorter portion contiguous to and integral with said strip intermediate the ends thereof adapted to be formed into a shingle clamping hook.

1,686,676. METHOD OF AND APPARATUS FOR TESTING MAGNETIZABLE OBJECTS. MAX E. BERLOWITZ, Belleville, N. J., assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y., a Corporation of New York. Filed Apr. 25, 1924. Serial No. 708,885. 5 Claims. (Cl. 175—183.)



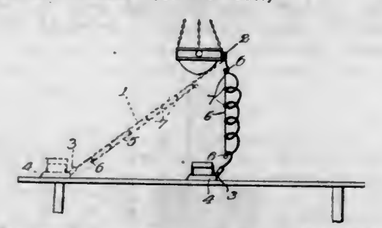
3. Apparatus for testing magnetizable objects, comprising means for producing a pair of similar rotating magnetic fields, means for supporting a standard specimen in one field and a non-standard specimen in the other field, movable detecting means in the respective fields sensitive to the magnetic torque developed between the fields and the respective specimens, the movement of one detecting means being in opposition to the movement of the other detecting means.

1,686,677. RADIOLOG. GLENN A. BISHOP, Evanston, Ill. Filed June 11, 1926. Serial No. 115,203. 1 Claim. (Cl. 40—70.)



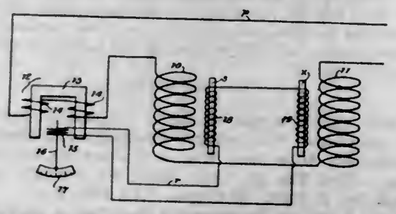
In a device of the character described, a mounting formed of a suitable material hinged to form front and rear upstanding sections which may be opened gable shaped, a revolvable circular disc mounted parallel to and on the rear of the front section, a segment cut out of the front section along the hinge, the disc mounted so its periphery extends above the hinge line so that a larger segment of the disc is displayed through the segment of the mounting than the segment area of the segment removed from the front section of the mounting.

1,686,678. FLEXIBLE-CABLE ADJUSTER. WALTER T. BURKE, Chicago, Ill. Filed Aug. 11, 1923. Serial No. 656,864. 4 Claims. (Cl. 173—367.)



1. In combination, an elastic cord, clips slidably carried therealong for frictional connection with an electric cord at spaced intervals, and enlargements at the ends of said elastic cord, each of said clips having a pair of legs forming an eye at their connected ends to freely, slidably receive the elastic cord and having the free ends shaped to frictionally grip the electric cord.

1,686,679. APPARATUS FOR TESTING MAGNETIZABLE OBJECTS. CHARLES W. BURROWS, New York, N. Y., assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y., a Corporation of New York. Filed Oct. 25, 1923. Serial No. 670,700. 1 Claim. (Cl. 175—183.)



An apparatus for testing the physical properties of magnetizable objects comprising a pair of primary coils connected in series, a pair of bucked secondary coils, and a

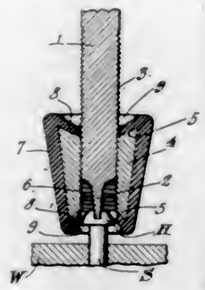
dynamometer having the field coil thereof connected in series with said primary coils and the potential coil in series with the secondary coils.

1,686,680. PROCESS AND APPARATUS FOR DRYING ORIENTAL RUGS. LYNN B. CASE, New Brunswick, N. J., assignor to John Waldron Corporation, New York, N. Y., a Corporation of New Jersey. Filed Dec. 31, 1926. Serial No. 158,148. 3 Claims. (Cl. 34—20.)



1. In a combination of apparatus for drying rugs, a casing substantially closed, means for controlling the relative air pressure within and without the casing, means for conveying rugs within the casing, said means being adapted to elevate a rug when one end is looped thereover, means for conveying the rugs through the casing at a predetermined rate to assure even spacing and thorough drying, means for delivering the rugs without the casing at a different rate, said last means extending through the casing to enable the rugs to be piled by pulling one edge in a direction substantially transverse to the line of travel of said means, the said means supporting the other edge until the first edge is in substantially desired piling position.

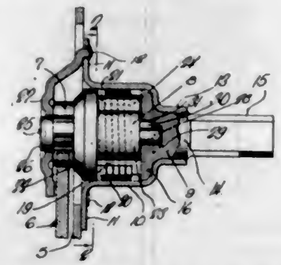
1,686,681. SCREW DRIVER. BENJAMIN F. CANODE, Aurora, Ill. Filed Oct. 19, 1926. Serial No. 142,668. 1 Claim. (Cl. 145—52.)



The combination with a screw driver including a screw threaded shank and a bit, of an interiorly screw threaded shell mounted on the threaded portion of the shank, said shell being reversible on the shank and having one end larger than the other, there being a concentric recess in the small end of the shell and a larger concentric recess in the large end of the shell, and a soft protecting jacket on the shell and fitting snugly thereto, said jacket having inturned end portions seated in the respective recesses and providing spaces for the reception of the head of a screw engaged by the bit.

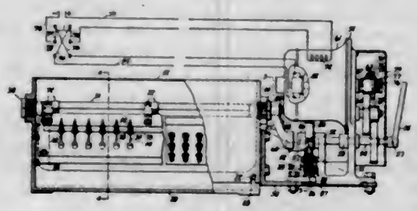
1,686,682. CLUTCH MECHANISM. CHARLES L. COUGHLIN, Milwaukee, Wis., assignor to Briggs and Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed May 14, 1926, Serial No. 109,101. Renewed Feb. 8, 1928. 12 Claims. (Cl. 192—8.)

1. In a device of the character described, a normally stationary housing, a rotatable driving member formed in one piece and consisting of a shaft portion, a flange on the inner end thereof, a pair of spaced lugs projected from the flange and having their peripheries struck on an arc having the axis of the shaft portion as a center and a journal portion formed on the shaft juxta-posed the flange, a bearing member at the closed end of the stationary housing in which the journal portion of the shaft is journaled, the flange and lugs of the driving member being located within the housing, a rotatable driven member consisting of a part located within the housing between the lugs of the driving member and a driving key carried thereby and having an end located between adjacent ends



of the driving member lugs, and a spring coiled about the lugs of the driving member with its ends inturned between adjacent ends of the lugs and disposed at opposite sides of the driving key, the peripheral surface of the spring normally frictionally gripping the wall of the housing to resist rotation of the driving member therein, whereby rotational stress applied to the driving member draws the spring ends together to reduce the frictional contact between the spring and housing and rotational stress applied to the driven member tends to spread the inturned ends of the spring to increase its frictional contact with the housing.

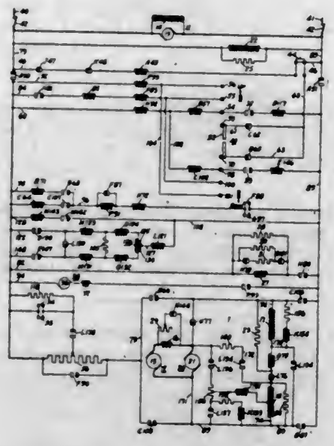
1,686,683. SWITCHING MECHANISM. WILFRID A. DALY, Yonkers, N. Y., and EDWARD L. DUNN, East Orange, N. J., assignors to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 27, 1925. Serial No. 12,054. 4 Claims. (Cl. 200—6.)



4. A double throw switch comprising; an operating shaft; means for turning said shaft; a stationary contact having its contact surface facing said shaft; a second stationary contact disposed on one side of the first stationary contact in a plane at right angles to the axis of said shaft through the first stationary contact; a third stationary contact disposed in said plane on the other side of said first stationary contact, the contact surfaces of the second and third stationary contacts being parallel to that of the first stationary contact; an arm mounted on said shaft and extending radially therefrom toward said stationary contacts, said arm having an aperture extending longitudinally thereof; a plunger slidably mounted in said aperture; a bridging contact pivotally mounted on said plunger to rock in said plane and having its contact surface facing the contact surfaces of said stationary contacts, the contact surface of said bridging contact being adapted to engage the contact surfaces of the first and second stationary contacts in one closed circuit position, to engage the contact surfaces of the first and third stationary contacts in the other closed circuit position,

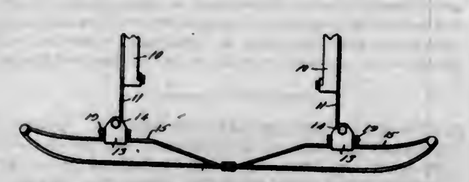
and to engage the contact surface of only the first stationary contact in off position; and resilient means acting through said plunger to maintain the contact surface of the bridging contact in engagement with the contact surface of the first stationary contact in off position, to rock said bridging contact about its pivot to cause sliding engagement of its contact surface with that of the second stationary contact, upon said shaft being turned in a direction to move said bridging contact into said one closed circuit position, and with that of the third stationary contact, upon said shaft being turned in a direction to move said bridging contact into said other closed circuit position, while maintaining a sliding engagement between the contact surfaces of the bridging contact and first stationary contact.

1,686,684. CONTROL SYSTEM FOR ELEVATORS. LEE I. DAVIS, New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 29, 1925. Serial No. 65,612. 12 Claims. (Cl. 172—152.)



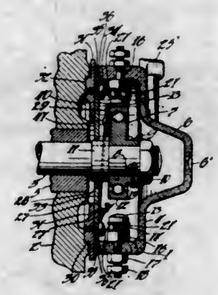
1. In combination, an elevator car, a motor therefor, a generator for supplying current to said motor, said generator having a field winding, means for driving said generator, a source of current for the field winding, and means for causing said motor to bring the car to a level with a desired landing regardless of whether the car overruns or underruns said landing, said last included means comprising means for disconnecting a portion of said field winding from said source and connecting it to the armature of said generator.

1,686,685. AUTOMOBILE BUMPER. WAYNE E. DUNSTON, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Aug. 27, 1923. Serial No. 659,483. 14 Claims. (Cl. 293—55.)



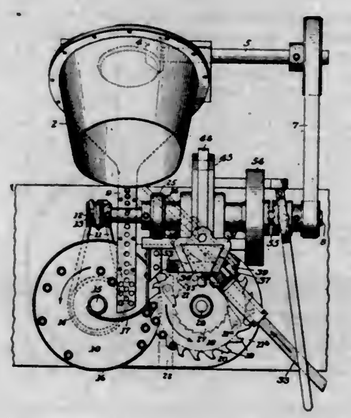
1. The combination, with a support terminating in an eye, of a stirrup connected thereto, a bumper bar arranged within the stirrup, and complementary wedge members arranged within the stirrup and adapted to engage the bumper bar and eye, together with means for moving said wedge members.

1,686,686. IGNITION TIMER. THOMAS A. EDISON, Jr., Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed Oct. 19, 1922. Serial No. 595,525. 2 Claims. (Cl. 200—27.)



1. The combination with an internal combustion engine having a rotary element and a recess provided in the engine frame substantially concentric with the axis of said element, and a timer casing carrying a plurality of radially arranged, spaced contacts and adapted to be applied to said frame with said contacts in cooperative relation to said rotary element, of adapter means for insuring the concentric positioning of the timer casing and the contacts carried thereby with respect to the axis of the rotary element, said means comprising a pair of adjustably connected members one of which is adapted to take within and coact with said recess and the other of which is adapted to fit closely within the timer casing and over said rotary element.

1,686,687. APPARATUS AND METHOD FOR APPLYING CORK TO CAPS. ALONZO L. EDWARDS and JOHN A. MCGINNIS, Wheeling, W. Va., assignors to Wheeling Stamping Company, a Corporation of West Virginia. Filed June 10, 1921. Serial No. 476,470. 15 Claims. (Cl. 113—80.)

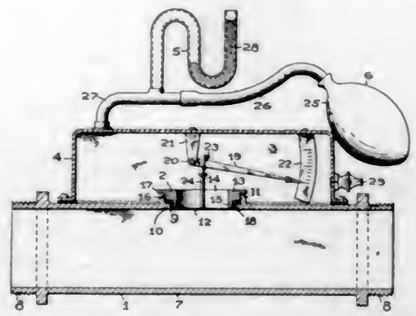


1. A cap-corking machine comprising means for feeding the caps to a certain point, means for feeding cork material over the caps at that point, a cutting device for

cutting pieces from the cork material and entering them in the caps, and means for drawing from the cutting device the surplus cork material from which pieces have been cut, substantially as described.

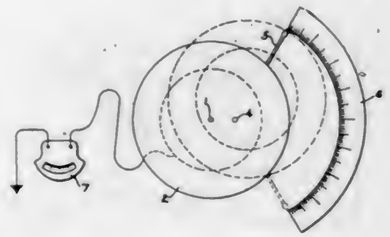
14. The method of manufacturing cork-lined caps, comprising feeding caps to a predetermined position, forming an elongated strip of cork material, feeding said strip over the caps at said position, holding the strip on opposite sides of said position, and cutting blanks from said strip while so held and delivering the blanks to said caps, substantially as described.

1,686,688. PRESSURE METER. CARL J. FECHHEIMER, Pittsburgh, Pa., assignor to Western Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1921. Serial No. 526,227. 11 Claims (Cl. 73—110.)



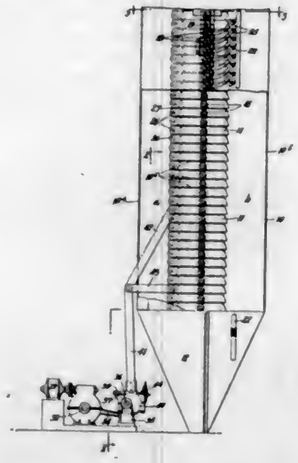
1. In a fluid-pressure instrument, the combination with a fluid-conducting tube having a portion of substantially uniform interior cross-sectional area and an opening through a side-wall of said portion, of an imperforate flexible diaphragm structure closing said opening and having its inner surface flush with adjacent inner surfaces of the tube and conforming to the uniform cross-sectional contour of the tube, and means for securing the diaphragm to the tube in fluid-tight relation thereto.

1,686,689. VOLTMETER. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1924. Serial No. 713,439. 5 Claims. (Cl. 171—95.)



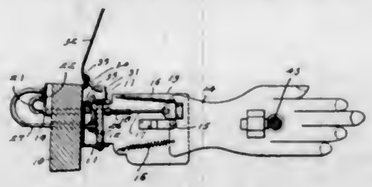
1. A voltmeter operable by means of corona discharge comprising normally concentric conductors having opposed cylindrical surfaces, one of said conductors being movable about an eccentric axis.

1,686,690. FUEL DRIER. MARTIN FRISCH, St. Louis, Mo., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 14, 1927. Serial No. 175,025. 4 Claims. (Cl. 34—38.)



1. In feeding and drying apparatus, the combination of movable heating elements arranged to provide a vertical conduit for the material to be dried, and means for imparting a step by step movement to said elements.

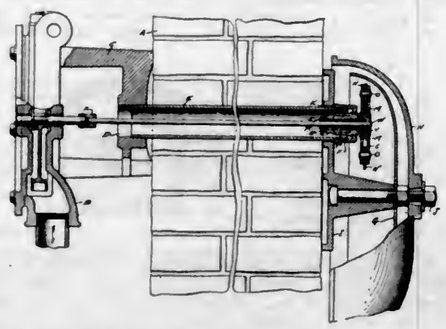
1,686,691. SIGNALING APPARATUS FOR VEHICLES. FRANK A. E. GOODROAD, Canton, S. Dak. Filed June 7, 1928. Serial No. 283,625. 7 Claims. (Cl. 116—44.)



1. In a semaphore signal, a pivoted semaphore, a pivoted cover therefor, an arm upon the semaphore having a slot, a longitudinally movable operating member for the semaphore having a portion engaged in said slot, said member extending in the general direction of the slot when the signal is in non-signaling position, a connection between said member and said cover whereby the cover is shifted during movement of the member in the slot and is inoperative during pivotal movements of the semaphore arm, the semaphore arm being formed in two sections and means operative when the arm is in signaling position for oscillating one of said sections with respect to the other thereof.

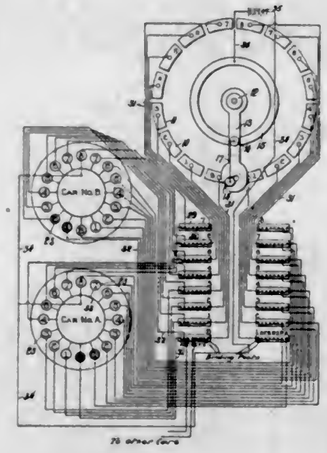
1,686,692. ROTARY ALARM DEVICE. LESTER A. GRIMES, Montclair, N. J., assignor to Grimes Sprinkler Company, Inc., Newark, N. J., a Corporation of New Jersey. Filed June 25, 1925. Serial No. 39,435. 5 Claims. (Cl. 116—151.)

1. In a device of the character described, a water motor and a gong in combination with means for retaining the same in position, a knocker arm having therein a centrally apertured recess, a bearing carried by said retaining means, a shaft for said knocker arm arranged to rotate in said bearing, a driving shaft connected with said motor and



freely passing through said aperture, and a key secured to said shaft and loosely fitting within said recess and arranged to rotate said knocker arm.

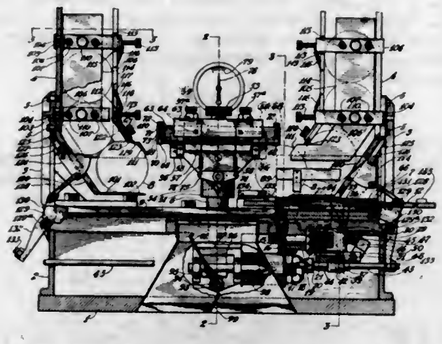
1,686,693. SIGNAL MEANS FOR ELEVATORS, ETC. WILLIAM H. GROVER, Maumee, and CLARENCE E. MERRITT and WILLIAM S. POOLEY, Toledo, Ohio. Filed Aug. 8, 1921. Serial No. 490,559. 5 Claims. (Cl. 177—336.)



1. In a signal apparatus, a commutator having a single row of segments, a switch arm therefor, a branch block having a plurality of connected contacts, the contacts in each block being connected to a different contact on the commutator, a plurality of elevator cars, a plurality of signals on each car distinctive to each floor, and means for connecting one signal in each car to a contact on the same branch block.

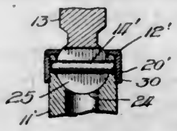
1,686,694. GAUGING MACHINE. ALOIS HAUSER and PHILIP WALLIN, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 28, 1927. Serial No. 178,909. 12 Claims. (Cl. 209—88.)

1. A gauging machine comprising gauging mechanism, a carriage, means for supporting the work thereon, means for reciprocating said carriage so that work thereon may be gauged, said gauging mechanism being adapted and arranged to gauge work in each direction of movement of



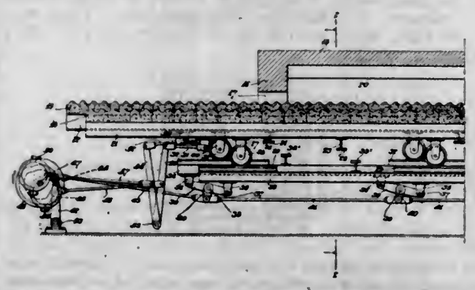
said carriage, and means actuated by said carriage for reversing the direction of travel of said carriage at each end of its path.

1,686,695. UNIVERSAL JOINT. HORACE C. HEON, Chicago, Ill., assignor to Automotive Maintenance Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed May 18, 1925. Serial No. 30,942. 1 Claim. (Cl. 64—91.)



In a universal joint, a socket member comprising a body portion having a ball-receiving recess in its bottom providing a spherical surface at the transverse diametrical plane and a cylindrical surface continuing beyond said plane; a ball member having a spherical head portion adapted to snugly engage said recess for movement therein, said head being slotted diametrically from its end to a point substantially beyond the transverse diametrical plane of the sphere; a cap fitting over said body and having an opening in its end wall, the edge of which is shaped to continue the curvature of the wall of said spherical recess; and a diametrical cross pin passing through the slot in said head and engaging the walls of both said body and cap to operatively interlock said foregoing parts.

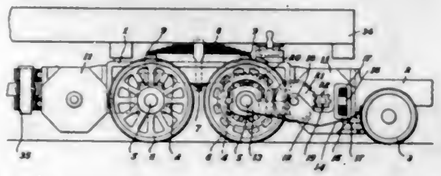
1,686,696. HEATING FURNACE. JOSEF HIRSCHMANN, Baltimore, Md., assignor to The Eastern Rolling Mill Company, a Corporation of Maryland. Filed Feb. 17, 1927. Serial No. 168,894. 6 Claims. (Cl. 198—219.)



6. In combination with a heating furnace, means for conveying material, such as sheet metal, therethrough,

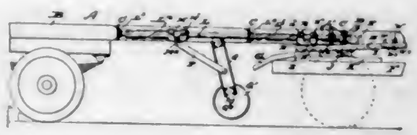
comprising a plurality of longitudinally extending parallel supporting and conveying elements arranged alternately in different independently movable groups, supporting wheels connected to said elements, wheel-supporting rails also arranged in different independently movable groups, means for alternately raising and lowering the groups of rails and means for reciprocating the groups of conveying elements upon the rails.

1,686,697. ELECTRIC LOCOMOTIVE. ALEXANDER T. KASLEY, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1924. Serial No. 684,492. 9 Claims. (Cl. 105—108.)



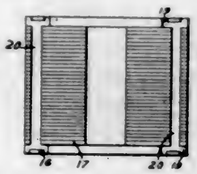
1. In a vehicle, the combination with a plurality of wheel axles and a frame journalled thereon, of a motor secured to said frame, side arms journalled at one of their ends on one of said axles and spring-borne at their other ends on the motor frame, idler shafts journalled for rotation in said arms, and co-operating gear-wheels mounted on the ends of one of the axles and on the idler and motor shafts.

1,686,698. TRACTOR TRAILER. CHARLES H. LAND, Detroit, Mich. Filed May 4, 1927. Serial No. 188,663. 9 Claims. (Cl. 280—33.1.)



1. In combination with a tractor-trailer, a rotatable shaft journalled in the frame of the trailer and extending longitudinally thereof; a supporting element for the trailer adapted to be moved into supporting or non-supporting position by the rotation of said shaft; and means carried by the tractor adapted to co-operate with the front end of the shaft to effect its rotation through a backward or forward movement of the tractor.

1,686,699. ROTOR FOR INDUCTION MOTORS. FRANK P. LAUFFER, Erwin, and SAMUEL C. HOEY, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 29, 1924. Serial No. 702,733. 4 Claims. (Cl. 172—120.)



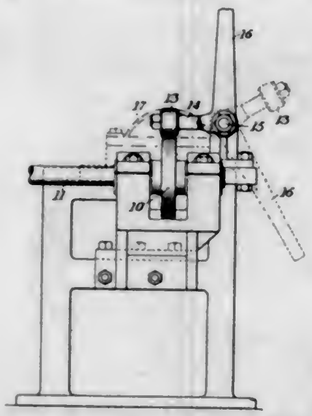
1. A rotor having its end rings and conductor bars integral therewith, said end rings being of substantially channel-shape in cross-section and provided with re-inforcing ribs.

1,686,700. METHOD AND APPARATUS FOR MANUFACTURING TUBES. ALEXANDER LAUGHLIN, Jr., Edgeworth, Pa.; Margaret M. Laughlin and The Union Trust Co. of Pittsburgh, executors of said Alexander Laughlin, jr., deceased, assignors to Central Tube Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 15, 1923. Serial No. 674,845. 2 Claims. (Cl. 78—83.)



1. In the method of manufacturing butt weld tubing, the steps comprising preshaping the ends of a plurality of pieces of strip so as to adapt the pieces to be initially gripped between forming rolls, charging the pieces of strip into a furnace in side-by-side relationship, heating them to bring the edges thereof to a welding temperature, and thereafter successively withdrawing the pieces of strip and welding the edges thereof to form butt weld tubing by the action of forming welding and feeding rolls operable about vertical axes, and charging a fresh piece of strip into the furnace to replace the withdrawn piece.

1,686,701. METHOD AND APPARATUS FOR THE MANUFACTURE OF TUBES. ALEXANDER LAUGHLIN, Jr., Edgeworth, Pa.; Margaret M. Laughlin and The Union Trust Co. of Pittsburgh, executors of said Alexander Laughlin, jr., deceased, assignors to Central Tube Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 27, 1924. Serial No. 702,261. 3 Claims. (Cl. 205—3.)



1. Apparatus for the manufacture of tubing, comprising feeding rolls, forming means behind said rolls said forming means comprising a plurality of pairs of rolls operable about vertical axes, the same being arranged to successively act on material to be formed into tubes, and means for moving one of the feeding rolls away from the other, whereby the material may be readily positioned between the rolls and the rolls closed to feed the material to the forming means.

1,686,702. AIR GUN. CHARLES F. LEFEVER, Plymouth, Mich., assignor to Daisy Manufacturing Company, Plymouth, Mich., a Corporation of Michigan. Filed Apr. 19, 1926. Serial No. 103,119. 9 Claims. (Cl. 124—10.)

6. In a gun, the combination with a barrel, of a plunger engaging said barrel, a plunger shank formed from a sheet metal blank bent into cylindrical form and cut away to form diametrically opposed segments, a spring sleeved on said shank, a spring abutment between said segments having a bearing portion slidably engaging the concave surfaces thereof, the said spring and spring abutment being

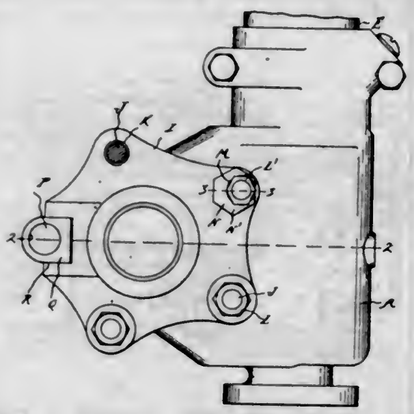


removable as a unit with the said plunger, a lever engaging said spring abutment and an opposed bearing on said shank, and a scar for engaging said opposed bearing when said plunger assembly is moved rearward by said lever whereby the forward movement of said spring abutment by said lever will compress the spring.

1,686,703. SOLID ACID MATERIAL. HERBERT T. LEO, Corona, Calif. Filed Jan. 31, 1927. Serial No. 165,030. 8 Claims. (Cl. 99—11.)

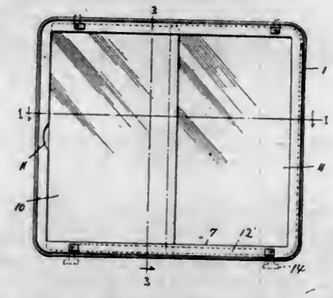
1. As a new article of manufacture, a non-deliquescent solid comprising dextrose and a normally liquid acid incorporated therewith.

1,686,704. WORM-GEAR ADJUSTMENT FOR MOTOR-VEHICLE STEERING GEARS. HENRY MARLES, Detroit, Mich., assignor to Gemmer Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 28, 1927. Serial No. 229,488. 2 Claims. (Cl. 74—79.)



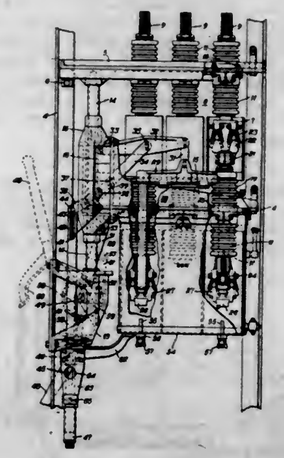
2. In a steering gear, adjustment means for shifting the worm wheel bearing member in relation to the worm bearing member comprising a stud projecting from the one through an aperture in the other, a split conical bushing sleeved on said stud, a second bushing sleeved on the stud provided with a conical recess for receiving said conical bushing and an eccentric peripheral portion for fitting the apertured member, a polygonal head on said eccentric bushing for facilitating rotative adjustment of the same on said stud and a clamping nut engaging said stud and bearing on said conical member to effect the contraction of the latter about the stud and the expansion of the eccentric bushing member to take up all lost motion.

1,686,705. REMOVABLE WINDOW FOR CLOSED CARS. GLENN E. MOSHER, Rockford, Iowa. Filed Nov. 26, 1927. Serial No. 235,868. 1 Claim. (Cl. 296—44.)



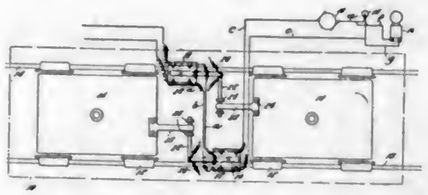
In a removable window adapted for disposition within the usual window opening of the closed type of automobile, a frame, a stationary pane supported within said frame, a slidable pane arranged within the frame, a flange at the upper and lower portions of the frame, said flanges being bent inwardly, an elongated bar adapted to be secured to the frame at the upper and lower portions thereof by said inwardly bent flanges, the ends of each bar being bent outwardly, and means associated with said bent ends for securing the frame within the window opening.

1,686,706. SWITCH MECHANISM. JOHN B. MACNEILL, Wilkinsburg, and ANDREW H. BAKKEN and CURTIS A. TUCKER, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 2, 1921. Serial No. 512,194. 4 Claims. (Cl. 200—50.)



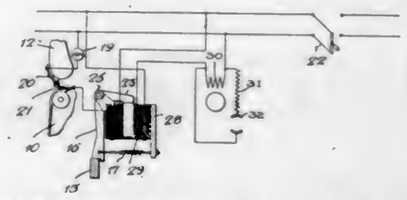
3. Switch mechanism comprising a disconnecting switch contact member, a circuit breaker movable bodily into and out of engagement with the said contact member, means for bodily moving the circuit breaker, a tank enclosing the circuit breaker and supported thereon and detachable therefrom and means carried by the said moving means for preventing disconnection of the tank from the circuit breaker while the said breaker is in engagement with the said contact member.

1,686,707. ELECTRIC SAFETY SWITCH. EUSEBI NAZZARENO, Telluride, Colo. Filed Aug. 10, 1927. Serial No. 212,035. 4 Claims. (Cl. 246—170.)



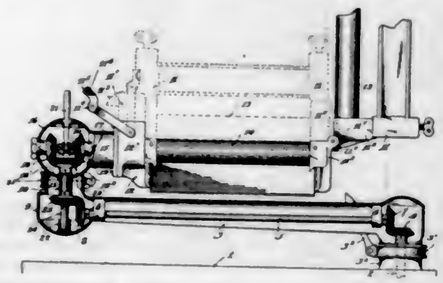
1. In combination with a railway car, an electric signal connected in circuit with a source of current, a normally open switch included in the circuit, laterally movable means operable to close the switch and actuate the signal when any of the wheels of the car leave the rails and means included in the switch closing means to permit of limited lateral movement of the car without closing the switch.

1,686,708. AUTOMATIC MAGNETIC RELEASE FOR IRONING MACHINES. HOMER E. NEWHOUSE, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 29, 1924. Serial No. 746,475. 4 Claims. (Cl. 68—9.)



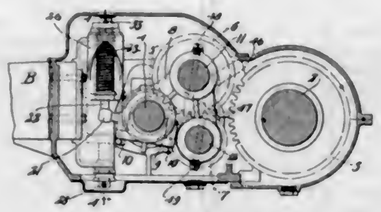
4. A safety latch for ironing machines provided with a movable ironing member comprising, in combination, a latch member, an electromagnet to operate the latch member to lock the ironing members in ironing relation, means operative to withdraw the latch member from its locked position when the electromagnet is deenergized, and means operative to establish the circuit of said electromagnet as the result of the positioning of the ironing members in ironing relation.

1,686,709. WRINGER MOUNTING. WILLIAM G. PETERS, Peoria, Ill., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 18, 1922. Serial No. 544,802. 3 Claims. (Cl. 68—32.)



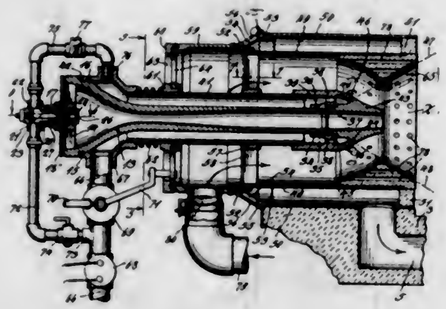
1. The combination in a washing machine, with a power element therein, of an arm pivotally supported on said element, a wringer pivotally mounted on the arm remote from the point of support of the same, adapted to swing in a horizontal plane, and gearing for transferring power through the arm from the element to the wringer-rolls, said gearing operating to drive said rolls in any position of the arm and wringer relatively.

1,686,710. LOCOMOTIVE BOOSTER. MONTAGUE H. ROBERTS, Englewood, N. J., and MAJOR T. FORKER, New York, N. Y., assignors to Franklin Railway Supply Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 20, 1926. Serial No. 142,974. 25 Claims. (Cl. 105—48.)



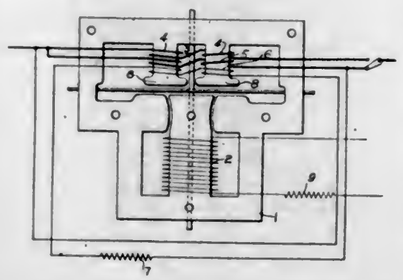
1. A locomotive booster apparatus comprising in combination, a booster driven pinion, an axle gear, an idler gear in mesh with the pinion, a second idler gear in mesh with the first, a movable member carrying both of said idler gears, and motor means for moving said member in one direction to mesh the first idler gear with the axle gear and in the reverse direction to mesh the second idler gear with the axle gear.

1,686,711. GAS BURNER. HAROLD D. SCHRADER, Denver, Colo. Filed May 31, 1927. Serial No. 195,285. 8 Claims. (Cl. 158—99.)



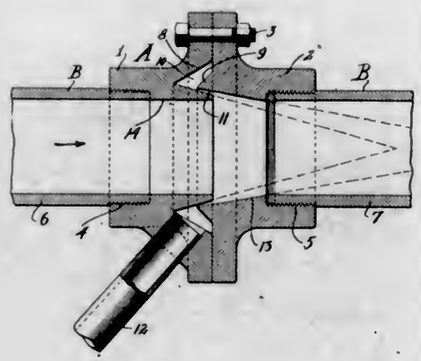
8. A compound gas burner comprising a primary burner composed of a Venturi tube, a detachable nozzle at one end and means at the other end for admitting air and gas, a secondary burner comprising a pipe enclosing the Venturi tube and spaced from the latter so as to form an annular passage, a burner head secured to the pipe and the tube at one end, a mixing head connecting the pipe and tube at the other end, means for admitting gas into the annular space, said burner head having a transverse perforated partition and a circular flange extending forwardly from the partition into close proximity to the outer surface of the nozzle whereby a passageway is provided for the escape of gas, a cylindrical housing enclosing said pipe, means for spacing the pipe from the housing, means for admitting air into the space between the pipe and the housing, a cylindrical member surrounding the cylindrical housing and spaced from the latter, means for connecting the ends of the cylindrical member with the cylindrical housing, means for admitting air into the space between the cylindrical member and the housing and a conduit extending from the last mentioned space to the space between the pipe and the cylindrical housing, a portion of said conduit being located in the path of the flame from the burners.

1,686,712. ELECTRICAL MEASURING INSTRUMENT. ARGYLE R. RUTTER, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 12, 1926. Serial No. 94,190. 12 Claims. (Cl. 171—264.)



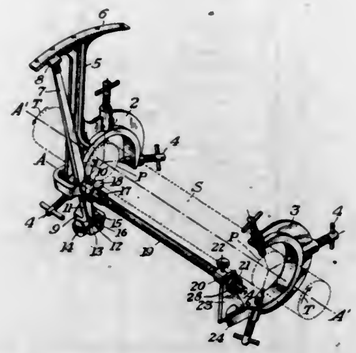
1. In combination with a plurality of series coils only one of which is in circuit relation for a given measurement, a circuit with a winding in shunt relation with one of said coils and a resistor in series relation to the shunt winding.

1,686,713. BLOWER NOZZLE FOR TRANSPORT LINES. ROBERT SCOTT, Melrose, Mass., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1926. Serial No. 149,076. 5 Claims. (Cl. 302—25.)



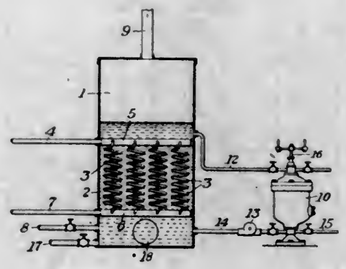
1. The combination with a transport line, of a blower therefor comprising a pair of coupling members, one having a rib and the other having a groove for receiving the rib, said rib and groove being of such size relative to one another as to provide a nozzle for directing fluid into the transport line, and means for admitting fluid to the nozzle.

1,686,714. TWIST METER. JOHN HAMMOND SMITH, Pittsburgh, Pa. Filed June 30, 1926. Serial No. 119,661. 11 Claims. (Cl. 265—25.)



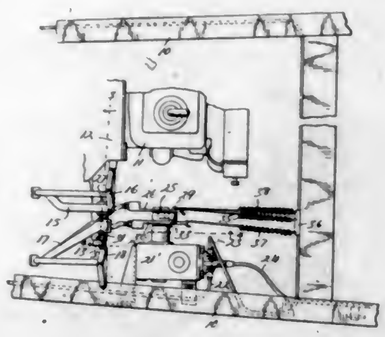
1. A twist meter comprising a pair of spaced yokes adapted to be secured to a test specimen, a member extending between and supported by the yokes in such manner that the member moves relative to one yoke when the yokes are moved relative to each other, and indicating means connected to the member.

1,686,715. TREATMENT OF EVAPORATOR WATER. GEORGE W. SMITH, Pittsburgh, Pa., assignor to John M. Hopwood, Dormont Borough, Pa. Filed July 17, 1924. Serial No. 726,480. 6 Claims. (Cl. 210—15.)



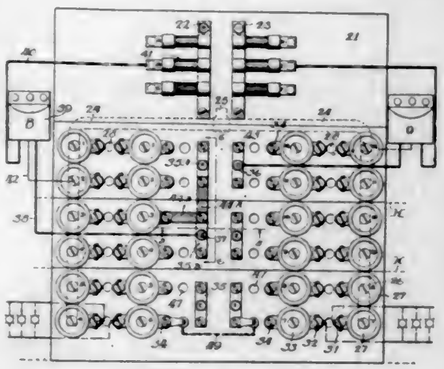
1. The process of treating water containing scale forming impurities, which comprises removing from the water impurities which would tend to soften the scale, evaporating the water to such concentration as to cause the formation of a hard scale on the heating surfaces of the evaporator, and periodically deforming such heating surfaces to crack off the scale.

1,686,716. COMBINATION CLUTCH AND BRAKE-CONTROL MECHANISM. HORACE T. THOMAS, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed Oct. 3, 1927. Serial No. 223,724. 10 Claims. (Cl. 192—13.)



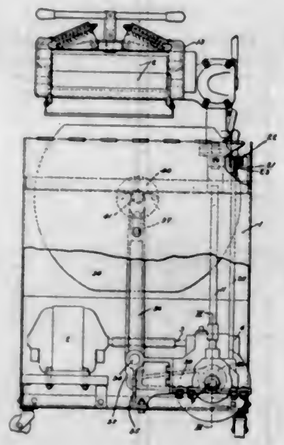
6. In apparatus of the character described, a clutch, a clutch operating lever, a hydraulic brake mechanism including a master cylinder operating arm and a pin and slotted link connection between said arm and said lever whereby the initial movement of said lever disengages said clutch and the further movement of said lever operates said brake mechanism.

1,686,717. METERING PANEL BOARD. ARTHUR C. MCWILLIAMS, Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 9, 1921. Serial No. 467,801. 22 Claims. (Cl. 175—370.)



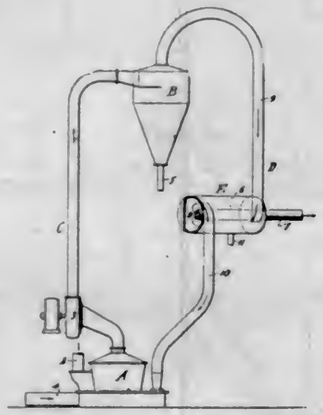
1. A metering panel board comprising a plurality of panels, each having upon its face a plurality of meter bars arranged in parallel rows between two rows of consumption circuit terminals, and detachable strap connectors of equal length connecting meter bars of one panel and of adjacent panels with each other and with the consumption circuit terminals.

1,686,718. CENTERING DRIVE FOR WASHING MACHINES. ALLEN S. WISE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 22, 1924. Serial No. 715,104. 9 Claims. (Cl. 74—14.)



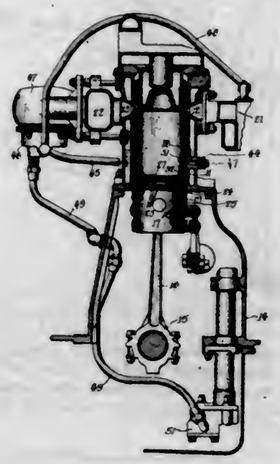
1. The combination of a container mounted for movement, drive means for moving said container, means for reversing the direction of said drive means, and means operative upon the reversal of said drive means to move said container to normal position and stop it in that position.

1,686,719. FUEL-PULVERIZING SYSTEM. WILFRED R. WOOD, London, England, assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed June 17, 1927. Serial No. 199,474. 6 Claims. (Cl. 83—11.)



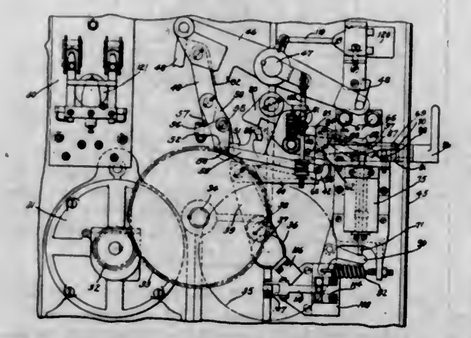
1. In a pulverizing system, a mill, a separator, a pipe between the mill and separator, a return pipe from the separator to the mill, means for setting up a current of a gas through the system, means for exhausting a portion of the gas in the system from the return side thereof, a centrifugal separator in the return line and from which said gas to be exhausted is withdrawn, means for introducing a relatively dry gas into the system in an amount corresponding to the amount of gas withdrawn.

1,686,720. SLEEVE-PRINCIPLE ENGINE LUBRICATION. ARTHUR A. WOODWARD, Detroit, Mich., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich., a Corporation of California. Filed Dec. 16, 1926. Serial No. 155,243. 13 Claims. (Cl. 123—196.)



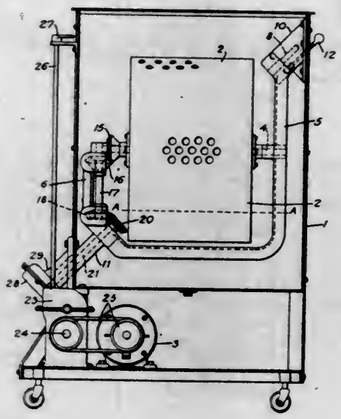
1. In an internal-combustion engine, the combination of an engine-cylinder having inlet and exhaust ports, movable sleeve-means in said cylinder controlling said ports, a reciprocatory piston in said sleeve-means, means to lubricate said piston, sleeve-means and cylinder means to remove fluids from around said piston intermittently, and means to remove fluids from around said sleeve-means continuously during the operation of the engine.

1,686,721. SWITCH-OPERATING MECHANISM. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 15, 1922. Serial No. 543,907. 9 Claims. (Cl. 200—89.)



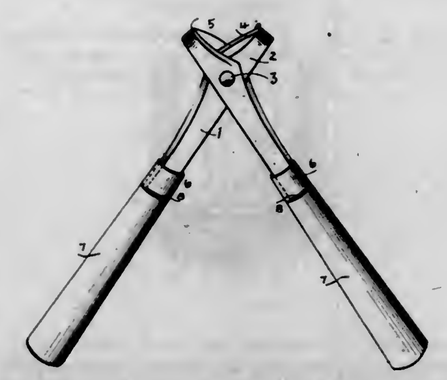
1. In combination, a switch-operating lever, a lifting bar therefor, toggle mechanism connecting the bar and the lever, means for releasably locking the toggle mechanism in set position to maintain the lifting bar and the operating lever in spaced relation, means for latching the lifting bar in raised position, means for releasing the toggle lock, and means for unlatching the lifting bar.

1,686,722. CLOTHES WASHER. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 19, 1924. Serial No. 726,960. 12 Claims. (Cl. 68—18.)



1. The combination of an outer container, a support, an inner container mounted to rotate on said support and means serving to secure said support for rotation within said outer container about an axis inclined to the vertical.

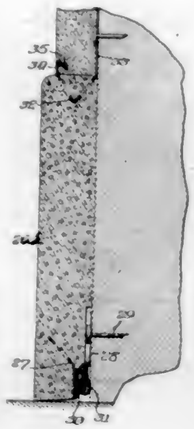
1,686,723. DEHORNER. EDWARD ANDERSON, Denver, Colo. Filed Jan. 25, 1926. Serial No. 83,764. 1 Claim. (Cl. 128—308.)



A dehorning implement comprising two loop members pivotally connected together in crossed relation at each side of the widest portion of the loops, said loop-members

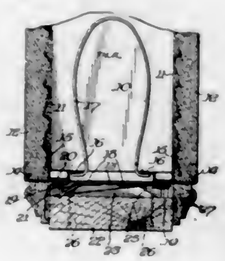
on one side of the pivot being substantially the form of hyperbolic curves forming cutting blades, said cutting blades gradually decreasing in width from the pivot points to the apex of the hyperbolic curve so as to give an angular shearing cut, and handles attached to the opposite ends of the loop members.

1,686,724. BUILDING ELEMENT. ISAAC A. BAUM, Chicago, Ill. Filed Dec. 27, 1927. Serial No. 242,632. 5 Claims. (Cl. 72—125.)



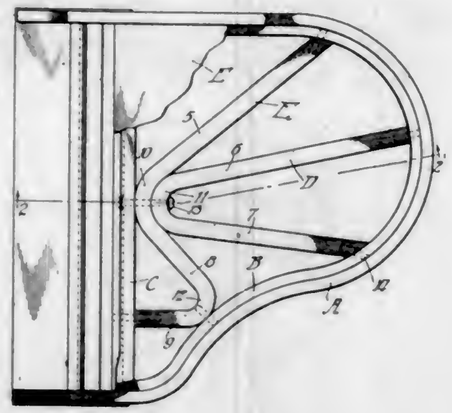
1. A building element comprising, in combination, a strip providing a tongue, and an attaching clip, both moulded into the element at opposite sides thereof, and means on the clip providing a plaster terminal and ground.

1,686,725. WOOD AND METAL DOOR FRAME. ISAAC A. BAUM, Chicago, Ill. Filed Dec. 27, 1927. Serial No. 242,633. 4 Claims. (Cl. 72—98.)



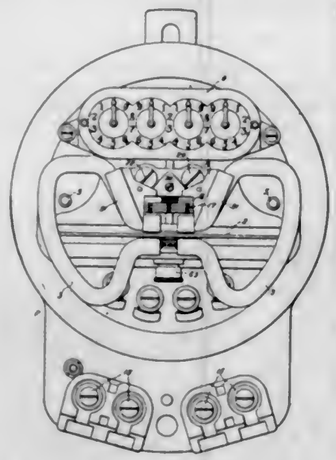
1. In means for framing wall openings, the combination with the wall of a metal plate having a substantially flat portion extending the full width of the wall and plaster, and providing means at its margins for a plaster terminal and ground, a wood frame member, clips joining the wood to the metal elements, and moulding overlying said attaching means.

1,686,726. GRAND PIANO. WILLIAM G. BETZ, Hammond, Ind., assignor to Straube Piano Co., Hammond, Ind., a Corporation of Indiana. Filed Aug. 21, 1925. Serial No. 51,690. 10 Claims. (Cl. 84—186.)



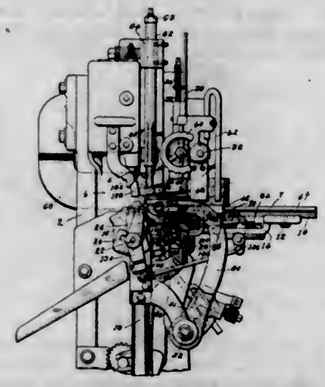
2. A grand piano including an inner rim, a front cross rail therefor, and a pair of U-shaped braces one set within the other and having abutting closed ends attached to the cross rail and the legs extending rearwardly into connection with the inner rim.

1,686,727. ELECTRICAL MEASURING INSTRUMENT. WILLIAM M. BRADSHAW, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 20, 1924. Serial No. 733,039. 7 Claims. (Cl. 171—264.)



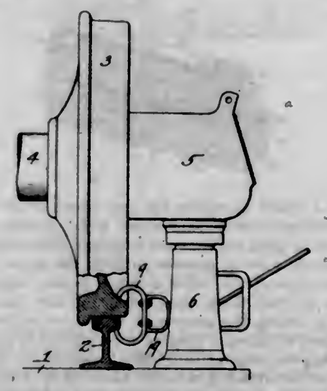
4. A meter comprising an armature, a plurality of permanent magnets adjacent said armature, a bracket supporting said magnets, and a single adjustable shunt-member for said magnets, said shunt-member being solely supported by a screw mounted on said bracket.

1,686,728. MACHINE FOR OPERATING ON PARTS OF BOOTS AND SHOES. IRA C. BUCKMINSTER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 3, 1924. Serial No. 704,073. 37 Claims. (Cl. 12—47.)



1. In a machine of the class described, the combination of means for operating on a shoe blank, means for feeding the blank, and means engaged by the blank after its feeding movement commences and movable therewith to determine the orientation of the blank with respect to the direction of feeding movement.

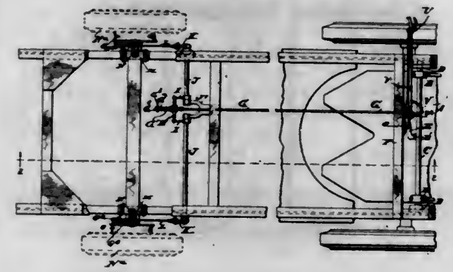
1,686,729. METHOD AND MEANS FOR REMOVING CAR BRASSES. MELBERN BERNIE BULLA, El Paso, Tex. Filed Mar. 1, 1927. Serial No. 171,902. 2 Claims. (Cl. 254—33.)



1. A clamp for clamping a car wheel to the rail when the car is lifted by a jack, said clamp having curved jaws for engaging the wheel rim and the underside of the rail head and a curved brace permitting the clamp to rest in engaging position against the lifting jack irrespective of the contour of the latter.

1,686,730. TRAILER-BRAKE MECHANISM. OBRA E. BYRON, Detroit, Mich., assignor to Wolverine Trailer Corporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 29, 1924. Serial No. 758,600. 6 Claims. (Cl. 188—112.)

6. A combination of a hauling vehicle including means for coupling the same to a coupling bar on the trailer, a trailer fitted with a coupling bar having a limited floating movement, a rocking lever pivoted on the trailer frame and having a brake operating rod secured thereto, brakes on the trailer, the said coupling bar being adapted to contact



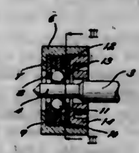
with the rocking lever to set the trailer brakes upon increased speed of the trailer with reference to the hauling vehicle, and manual means for operating the rocking lever to set the trailer brakes.

1,686,731. INDEX DEVICE. EDWARD CARLSON, Buffalo, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 31, 1925. Serial No. 6,146. 16 Claims. (Cl. 129—16.)



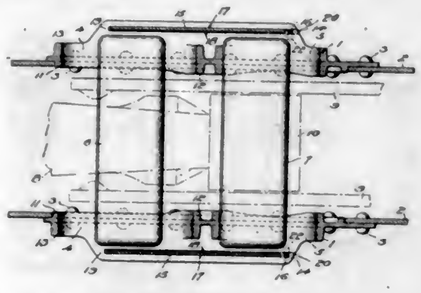
15. In a record tray having an end wall and adapted to support a series of record holders flatwise thereon in overlapping and nested position, a follower having a holder-engaging section, and an operating member movably connected to said section and slidably adjustable relative to said end wall and adapted to releasably maintain said holder-engaging section in contact with a record holder.

1,686,732. BEARING. GORDON B. CHEETHAM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Aug. 28, 1926. Serial No. 132,052. 4 Claims. (Cl. 308—189.)



1. In a device of the class described, in combination, a series of washers coaxially arranged and having openings of different diameters, and bearing balls within the openings of said washers, one of said washers being centrally located and having an opening smaller than the openings of the washers on either side thereof, the bearing balls rolling upon the surface of the opening of the centrally located washer.

1,686,733. DRAFT-KEY RETAINER. GLENN F. COUCH, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed Sept. 22, 1925. Serial No. 57,911. 8 Claims. (Cl. 213—54.)



1. In a railway draft rigging, the combination with a draft key, of cheek plates provided with slotted portions engaging said key, said slotted portions being framed by flanges, with portions of said flanges extending outwardly beyond the ends of the key and provided with longitudinal grooves for receiving key retaining means.

1,686,734. CABLE HOOK. MACKNEELE COX, Stollings, W. Va., assignor of one-half to H. M. McKee, Peach Creek, W. Va. Filed Jan. 21, 1925. Serial No. 3,882. 3 Claims. (Cl. 173—273.3.)



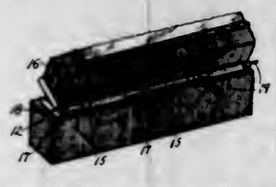
2. A hook for the purpose set forth comprising an outer casing of insulation open at its upper end and closed at its lower end, an inner casing of conducting material closed at its lower end and open at its upper end and extended from the upper end of the outer casing, said inner casing having its lower end seated upon the inner face of the lower end of the outer casing, said casings having the lower ends thereof provided with registering openings for coupling a cable therewith, said casings having their lower portions compressed and extended to provide inherent snugly engaging means to prevent the lengthwise separation of one casing relative to the other, a hook element extending into said inner casing and carrying means for electrically connecting it with said inner casing, the inner end of said hook element being spaced from the lower end of said inner casing, said hook element extended from the upper end of the inner casing, a pair of spaced cushioning elements surrounding and supported by said hook element, non-conducting means engaging with the extended part of said inner casing, abutting against the upper end of the outer casing and surrounding said hook element for confining said cushioning elements under a state of compression within said inner casing.

1,686,735. SEMAPHORIC INDICATOR. WILLIAM P. DALRYMPLE, Chicago, Ill. Filed Nov. 12, 1926. Serial No. 147,957. 6 Claims. (Cl. 116—114.)



4. In a device of the class described, a plate having a stud, a leaf spring secured to the plate, a semaphore arm having an aperture, said semaphore arm inserted between the leaf spring and the plate with the stud entered in said aperture, a condition responsively movable arm to directly engage and move the semaphore arm, and means for locking the leaf spring after the semaphone arm has been inserted to prevent said arm from being displaced.

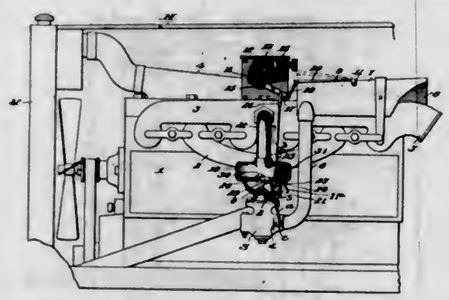
1,686,736. CAN-COVER HINGE. FRANK G. DAVISON, Cambridge, Mass., assignor, by mesne assignments, to Arthur H. Parker, Lexington, Mass. Filed Dec. 18, 1924. Serial No. 756,689. 4 Claims. (Cl. 220—31.)



1. In a hinge structure for two sheet metal members, the combination with said sheet metal members, one of which has aligned portions alternately displaced in opposite directions to present grooves in both the inner and outer surfaces thereof, the other member having edge portions bent to provide three open-ended tubular bearings substantially fitting the grooves in the outer surfaces of the first-named member, a binding wire extending around and reinforcing the edge of said other member, the ends of the binding wire extendng into the outer ends of the two end tubular bearings but not through said bearings, and two pintles engaged with said bearings and with the grooves in the inner surface of the first-named member, said pintles abutting each other at their adjacent ends and abutting the ends of the binding wire at their outer ends and being insertable into operative position through the central groove in said outer surface.

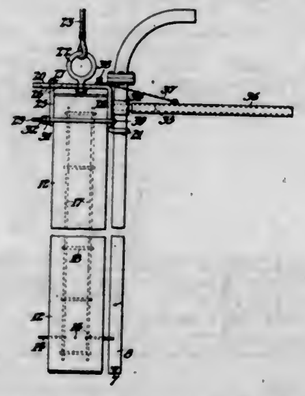
1,686,737. CHARGE-FORMING STRUCTURE FOR INTERNAL-COMBUSTION MOTORS. GEORGE W. DONNING, Bridgeport, Conn. Filed Apr. 18, 1922. Serial No. 554,684. 9 Claims. (Cl. 123—119.)

1. In combination, an internal-combustion motor, an intake-manifold leading thereinto, an exhaust-manifold leading out of the motor, a carbureter connected to the intake-manifold, a fuel-conditioning device encompassing the intake-manifold, a conduit leading out of the exhaust-manifold for conveying heated gases to and around the fuel-conditioning device and also into the intake-manifold, mechanism for controlling the flow of the heated gases into the intake-manifold and out of the fuel-conditioning device,



a thermostat associated with and influenced by thermal conditions of the motor and connected to said mechanism for actuating the same, an air-heater associated with the exhaust-manifold and having its contents influenced thereby, and a connection between the heater and the carbureter for conveying the contents of the heater to the carbureter.

1,686,738. CONCRETE STRUCTURE. RUSSELL SCOTT ELLIS, Philadelphia, Pa. Filed Dec. 31, 1924. Serial No. 759,207. 4 Claims. (Cl. 61—86.)



4. The combination with a base of downwardly converging form having a water jet passageway from its lower apex to its upper surface; of a water conduit having means arranged for detachable connection with said base and passageway; and an adjustable suspension clamp including a bearing support for said conduit, arranged to permit rotary and axial movement of said conduit therein and screw bolts arranged to detachably clamp a columnar element in cooperative relation with said conduit and base; and means cooperatively connecting said conduit and clamp, whereby they may be applied and removed together, with respect to said columnar element.

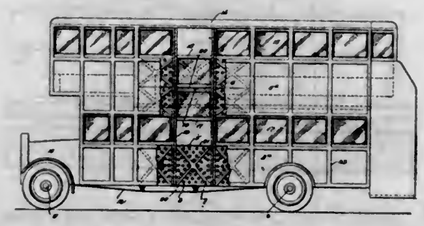
1,686,739. CURTAIN FIXTURE. PLATO G. EMERY, Chicago, Ill. Filed May 15, 1924. Serial No. 713,405. 3 Claims. (Cl. 156—26.)

1. The combination with a shade stick, of a shoe at an end thereof provided with anti-friction devices adapted to ride along a stationary frame member, and an L-shaped pawl pivoted at the angle thereof to the shoe so as to be capable of swinging by gravity between a position in which one of its arms is parallel with the rod and projects out



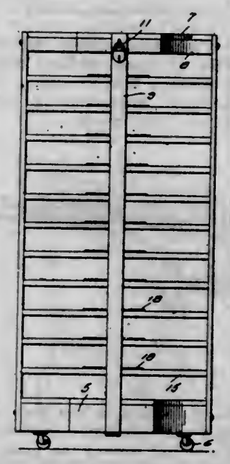
past the line of contact of the said anti-friction devices and a position in which the other arm lies parallel to the rod and projects out past said line.

1,686,740. BUS BODY. WELLINGTON F. EVANS and BOYD V. EVANS, Detroit, Mich. Filed July 24, 1925. Serial No. 45,758. 5 Claims. (Cl. 296—28.)



1. A bus body having side walls provided with upper and lower windows, said side walls including panels, one of greater depth than the other affording window sash receiving wells above the lower windows.

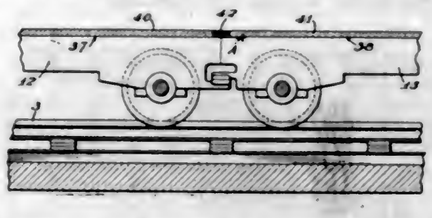
1,686,741. TIRE RACK. CHARLES M. FANNIN, Winona, W. Va. Filed Feb. 3, 1927. Serial No. 165,671. 1 Claim. (Cl. 211—24.)



In a tire rack of the class described, a base, a vertically spaced top, pairs of stationary bars arranged vertically at the sides of the rack and inter-connecting the base and the top, a stationary vertical bar at the rear of the rack, extending from the top to the bottom thereof, a hinged vertical bar at the front of the rack also extending from the top to the bottom thereof, horizontal spaced tire supporting shelves arranged between the base and the top, said shelves comprising bars secured at their ends to the adjacent vertical side bars, the intermediate portion of each of said bars being formed with a transverse

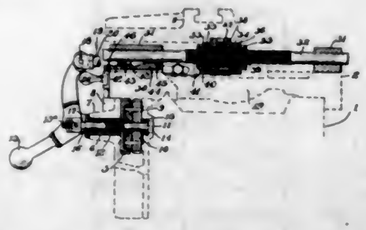
notch in its upper face, additional horizontal bars disposed transversely across the first mentioned horizontal bars for disposition in said notches whereby the intersecting bars have their upper faces disposed in the same plane, said last mentioned horizontal bars being secured at one end to the stationary rear vertical bar, the free ends of said bars adapted to engage the hinged front bar when the latter is disposed vertically, and reinforcing metallic strips extending across the intersecting portions of the horizontal bars and secured thereto, and means for locking the free end of the hinged vertical front bar in a closed position.

1,686,742. METHOD AND APPARATUS FOR SURFACING PLATE GLASS. JOHN H. FOX, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed July 21, 1927. Serial No. 207,407. 2 Claims. (Cl. 51—240.)



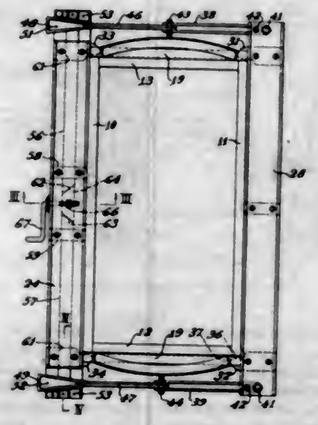
1. Apparatus for surfacing plate glass comprising a series of driven grinding and polishing runners, a track therebeneath, and two sets of cars or tables adapted to form a continuous train and carry on their upper surfaces the sheets of glass to be surfaced, said tables or cars being divided into two sets of fixed levels, with the level of the top surfaces of one set lying at an elevation which is less than that of the level of the top surfaces of the other set by a predetermined distance corresponding to the thickness of glass which is removed from the sheets by the surfacing operation.

1,686,743. CARRIAGE STOP MECHANISM FOR LATHES. FRED C. DULL, Sidney, Ohio, assignor to The Monarch Machine Tool Company, Sidney, Ohio, a Corporation of Ohio. Filed June 22, 1927. Serial No. 200,663. 4 Claims. (Cl. 82—24.)



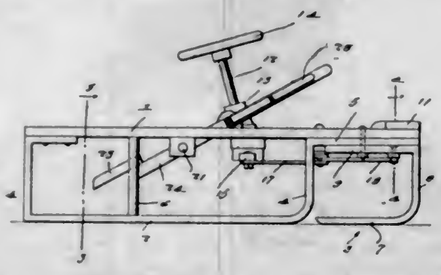
1. In a lathe, a carriage, a tool rest free to move in either direction on said carriage, cross-feed mechanism for advancing said tool rest toward the work, driving means for said cross-feed mechanism, a clutch device for connecting the driving means to the cross-feed mechanism, a control device for holding a clutch engagement between the cross-feed and the driving means, a shiftable member to actuate the control device to release the clutch from the cross-feed mechanism, a rotatable turret on said shiftable member, adjustable stop elements on said turret, corresponding to the diameters of the work required, and a member on said tool rest for engagement with a selected stop element to move the shiftable member to release the clutch and stop the operation of the cross-feed mechanism when a required diameter on the work has been reached.

1,686,744. LOCK FOR COTTON-PRESS DOORS. THOMAS ELLIOTT, Birmingham, Ala., assignor to Continental Gin Company, a Corporation of Delaware. Filed Aug. 24, 1927. Serial No. 215,069. 6 Claims. (Cl. 100—19.)



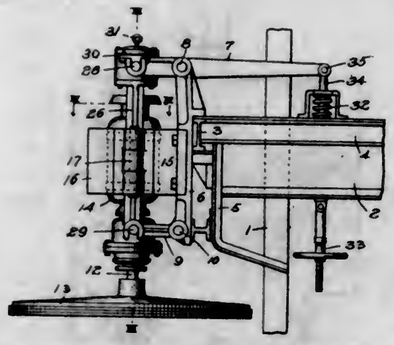
1. In a lock for the opposed doors of a cotton press, a locking member for connecting the opposed doors and holding them in place, wedge means for securing the locking member to one of the doors, and screw actuated wedge means for gradually releasing the first mentioned wedge means.

1,686,745. SLED. JOHN ARTHUR GLACKEN, Norwich, Conn. Filed Dec. 9, 1926. Serial No. 153,584. 2 Claims. (Cl. 280—16.)



1. In a sled structure of the class described, a seat board, a pair of side runner units, each unit comprising a rear and front section, the rear section having its intermediate portion fashioned to form a slide for contact with the surface, having its opposite end portions directed upwardly and terminating in angular extremities rigidly fastened to the front and rear ends of the under side of said seat board, each front section being of general U-shaped formation and having its bight portion located at the forward end of the seat board, the upper arm or portion of each front section being in contact with the adjacent end portion of the complemental section, pivot bolts connecting said upper arms and said seat board, a connecting bar between the upper arms of the respective front sections, a rotatably mounted steering column, a hand wheel carried by the upper end of the column, and an operating connection between the lower end of the column and said connecting bar, whereby said front sections may be moved upon their pivots through the operation of said hand wheel.

1,686,746. DRIVING MECHANISM FOR WORK SPINDLES. ALBERT L. HARRINGTON, Rosslyn Farms, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Oct. 13, 1924. Serial No. 743,288. 8 Claims. (Cl. 51—100.)



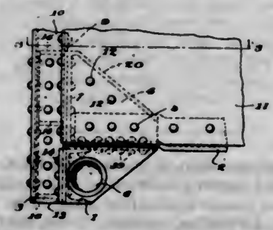
1. In combination, a supporting framework, a vertical work spindle or shaft, a motor armature secured to the shaft, a pair of bearings one above the armature and one below, in which the shaft is journalled, releasable means carried by the framework arranged to guide the shaft and bearings vertically, means for counterbalancing the shaft with its armature and bearings, a motor field frame surrounding the armature and secured to said framework, and field windings carried by said motor field frame, the shaft and armature being releasably supported with respect to the motor field frame, so that they may be removed leaving the field with its frame in position upon the framework.

1,686,747. TORCH SOLDERING IRON. JOSEPH GYSELS, San Francisco, Calif. Filed July 28, 1927. Serial No. 209,076. 2 Claims. (Cl. 158—26.)



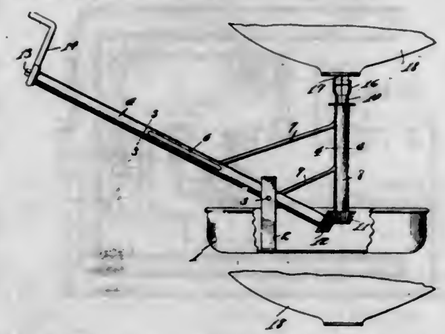
1. In a soldering iron, a tubular member, a pipe positioned within said tubular member, said tubular member having a plug positioned therein, a second plug positioned within said first plug, a boss formed on said tubular member, an offset tip formed on said pipe and positioned so as to discharge through said boss, a holder secured to said boss, a tip secured to said holder, and means for delivering gas to said tubular member and means for delivering air to said pipe.

1,686,748. CAR CONSTRUCTION. FRANK H. HARDIN, Bronxville, N. Y. Filed July 14, 1927. Serial No. 205,731. 3 Claims. (Cl. 105—411.)



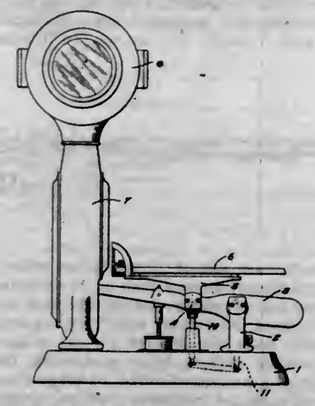
1. In a railway car; the combination of a longitudinal frame member, a lateral frame member, a vertical frame member, a single piece bracket securing said members together, said bracket comprising an end wall offset for engagement and attachment with two sides of the vertical member, a side wall attached to the longitudinal member, and a horizontal wall integral with said end and side walls attached to the longitudinal and lateral members.

1,686,749. AUTOMOBILE CRANK-CASE DRAINER. HARLIN HIGGINS, ALBERT L. FISH, and JAMES L. O'HARE, Faith, S. Dak. Filed Dec. 23, 1926. Serial No. 156,672. 2 Claims. (Cl. 184—1.5.)



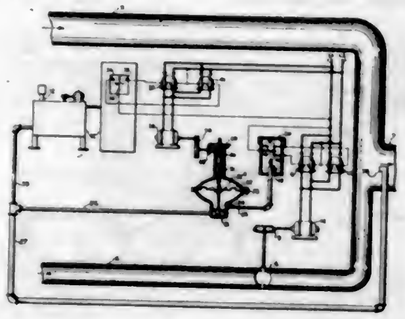
1. In a device for removing and replacing drain plugs of crank cases for the purpose specified, comprising in combination, a pan, a tubular handle pivotally supported on the pan, a driving shaft rotatable in the handle, a housing supported by the handle, a driven shaft rotatable in the housing, a gear connection between the driving and driven shaft, a socket member detachably engaged with the driven shaft for engagement with the drain plug upon pivotal movement of the shafts and rotatable with the driven shaft, as and for the purpose set forth.

1,686,750. WEIGHING SCALES. SAMUEL N. HURT, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 29, 1924. Serial No. 758,551. 8 Claims. (Cl. 265—27.)



1. In a device of the class described, in combination, a frame, weighing mechanism including a platform lever, a commodity-receiver supported on said platform, a check link comprising push and pull members, means for pivotally connecting said check link to said commodity-receiver, means pivotally connecting said check link to said frame, one of said connecting means comprising a member provided with a knife edge pivot, said member having a pair of depressions, and means including a pair of screws engaging said depressions for adjusting said member about an axis at right angles to the edge of said pivot.

1,686,751. METHOD OF AND APPARATUS FOR MAINTAINING SUBSTANTIALLY CONSTANT THE TOTAL HEATING VALUE PER UNIT VOLUME OF A FLOWING COMBUSTIBLE MIXTURE OF FLUIDS. ULRIC O. HUTTON, Wauwatosa, and EDWIN X. SCHMIDT, Milwaukee, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 13, 1927. Serial No. 198,517. 10 Claims. (Cl. 48—180.)



1. The method of maintaining substantially constant the total heating value per unit volume of a flowing combustible mixture of fluids, which comprises substantially instantaneously subjecting certain of the constituent flows of said combustible mixture to rate control in accordance with variations in composition of the mixture, and modifying the control so effected in accordance with the determinations of a slow acting precision calorimeter burning a continuous sample of the mixture, said calorimeter being adapted to compensate for variations in temperature, pressure or saturation conditions of said mixture.

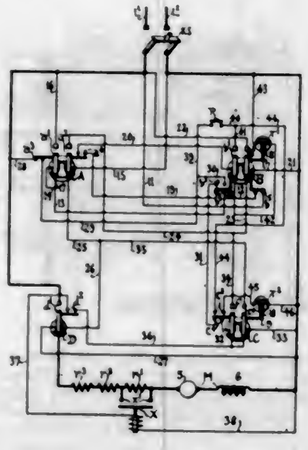
1,686,752. SPRING AIR GUN. CHARLES F. LEFEVER, Plymouth, Mich., assignor to Daisy Manufacturing Company, Plymouth, Mich., a Corporation of Michigan. Filed Mar. 9, 1925. Serial No. 14,261. 9 Claims. (Cl. 124—10.)



9. In a spring air gun, the combination with a barrel, and a spring actuated plunger therein, of a trigger, a sear forwardly movable to engage the plunger and rearwardly movable to retract the plunger and compress said spring, and releasable from the plunger by the trigger in its retracted position, and a lever mechanism controlling travel of the sear, and establishing an inherent lock upon said mechanism in the retracted position of the sear to maintain said position.

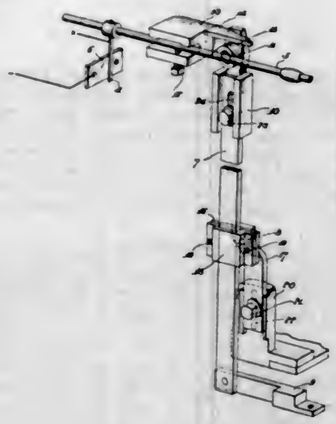
1,686,753. MOTOR CONTROLLER. RALPH G. LOCKETT, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 31, 1926. Serial No. 158,300. 12 Claims. (Cl. 172—288.)

1. In a controller for electric motors, the combination with means for initially completing a circuit for the motor for effecting running thereof at a predetermined constant speed, and means operable automatically upon



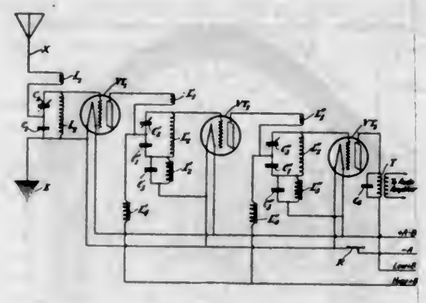
restoration of the power supply after failure thereof for completing a circuit for the motor for effecting running thereof at a different predetermined speed.

1,686,754. CONTROLLER ACTUATION. AARON E. LOEWY, Philadelphia, Pa., assignor to Liberman Manufacturing Company, a Corporation of Delaware. Filed June 24, 1926. Serial No. 118,181. 1 Claim. (Cl. 74—5.)



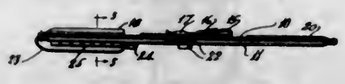
In a controlling mechanism, the combination of a pivoted lever, an element shifting mechanism associated with one end thereof and power controlling mechanism associated with the other end thereof including a rock shaft, a spiral cam adjustably mounted thereon, and a cooperating roller adjustably mounted near the end of the pivoted lever.

1,686,755. METHOD OF AND APPARATUS FOR OPERATING ELECTRICAL AMPLIFIERS. EDWARD H. LOFTIN, New York, N. Y., assignor to Edward H. Loftin, trustee. Filed Dec. 24, 1925. Serial No. 77,445. 19 Claims. (Cl. 179—171.)



1. The combination of a three-electrode vacuum tube adapted to amplify alternating currents over a range of frequencies, an output circuit in which said currents are amplified, and means to prevent reamplification in said tube of said amplified currents due to the reaction of said output circuit including capacitive and inductive reactive elements located in said circuit, and a tunable circuit associated with said output circuit through capacitive and inductive elements, said elements being chosen in values with respect to the values of the elements in the output circuit and tunable circuit to maintain the effective capacitive and inductive reactions of said output circuit substantially equal with variation of frequency.

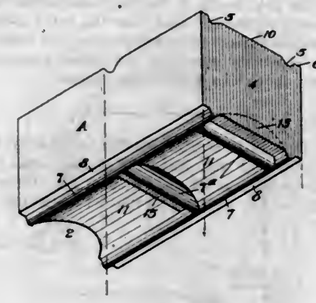
1,686,756. COMBINED BILL FOLD, CARDCASE, AND KEY CASE. CHARLES LORBER, Louisville, Ky. Filed Nov. 13, 1926. Serial No. 148,216. 2 Claims. (Cl. 150—40.)



1. In combination, a billfold including a central section and wing sections, card pockets each secured to a respective section on the inner side thereof, the wing sections being foldable with their card pockets on the central section, key supporting means secured to one of said wing sections on the outer side of the bill fold and at the top edge thereof, a cover for said supporting means and keys supported thereby, and having one edge inserted between the end edges of the bill fold and pocket members at the respective wing and having its body adapted to lap over the outside of said wing and cover the key supports and keys, and snap button members carried by the cover and bill fold for holding the cover closed.

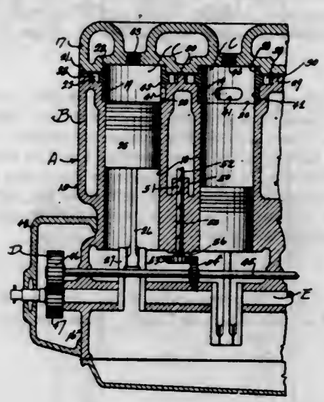
1,686,757. BUILDING BLOCK. HOWARD R. LOUGHRIDGE, Castle Shannon, Pa. Filed June 24, 1927. Serial No. 201,113. 13 Claims. (Cl. 72—41.)

1. A building block having longitudinal grooves along its upper side edge portions and longitudinal ribs along its lower side edge portions for interfitting engagement with the grooves of an adjacent block, and provided with endmost grooves coincident with the longitudinal grooves



and ribs, the inner faces of the ribs being extended upwardly beyond their main body portions providing interior clearance.

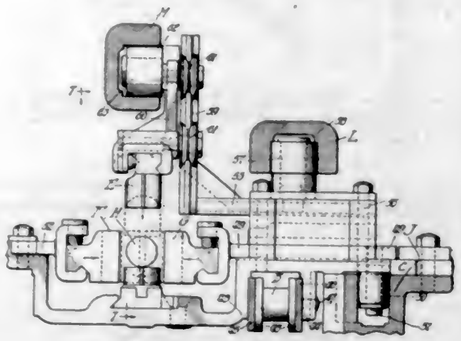
1,686,758. ROTARY-VALVE INTERNAL-COMBUSTION ENGINE. JAMES B. MANKIN, North Chattanooga, Tenn. Filed Aug. 17, 1925. Serial No. 50,693. 3 Claims. (Cl. 123—59.)



1. In an internal combustion engine the combination of a housing including a main body provided with a cylinder chamber therein, a rotary valve including a hollow cylindrical body portion of uniform internal and external diameter throughout the length thereof providing a passageway therethrough open entirely in unobstructed relation at the ends of the cylindrical valve body, the body exteriorly thereof having an annular series of extending gear teeth intermediate the ends of the valve body to divide the latter into an upper short portion and a lower longer portion provided with transverse ports, a detachable valve block having a valve seat passageway therein of a diameter to snugly receive the lower portion of the valve below the gear teeth thereof, said detachable valve block having an annular seating flange in the lower end of the valve seat upon which the lower edge of said rotary valve abuts, said flange defining a passageway of the same diameter and lying flush and unobstructed with the cylinder chamber, the valve passageway being of the same diameter and lying flush with the passageway of said flange and the cylinder chamber, said valve block inwardly of the upper surface thereof being recessed and enlarged to rotatably

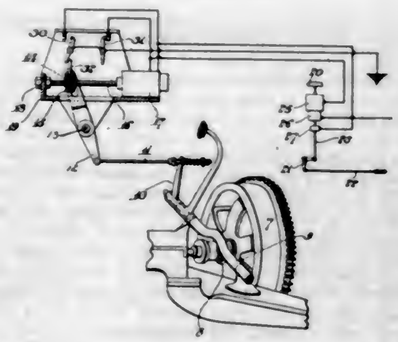
receive the gear teeth of the rotary valve therein throughout the height of said gear teeth so that only the upper portion of said valve above said gear teeth extends above the top surface of said detachable valve block, means to mesh with the gear teeth of the valve and drive the latter, and a detachable cylinder head over the valve block having a shallow recess extending upwardly into the lower surface thereof for rotatably receiving the upper portion of said rotary valve above the gear teeth thereof.

1,686,759. PLASTIC-CANDY-FORMING MACHINE. ROBERT F. MORRISON and EARL B. ELDER, Oak Park, Ill., assignors to Emil J. Brach, Chicago, Ill. Filed Aug. 12, 1925. Serial No. 49,754. 22 Claims. (Cl. 107—15.)



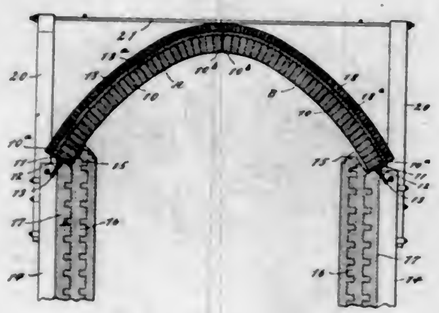
1. A plastic candy forming machine including a plurality of unit presses each including a single frame carrying a plurality of coacting dies for completely forming candies, means for advancing said unit presses along to successively and repeatedly act upon a candy rope fed to the machine, and mechanism for successively actuating the dies of the presses to compress the candy rope to form candies as the presses are advanced.

1,686,760. CLUTCH CONTROL. WALTER S. MYERS, Darby, Pa. Filed July 22, 1927. Serial No. 207,640. 5 Claims. (Cl. 192—.01.)



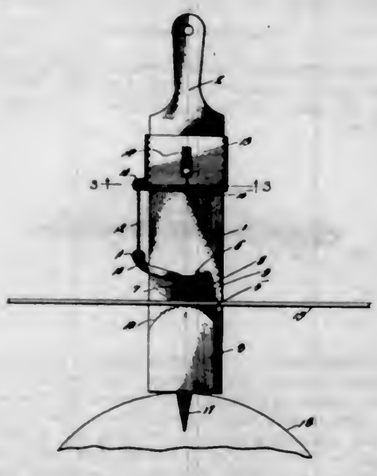
5. In a clutch control, the combination of an accelerator and a clutch, an electric motor for the actuation of the clutch into and out of clutch engagement, contacts in the motor circuit controlled by the accelerator-actuating means, and motor controlled cut-outs for limiting the movement of the motor in opposite directions.

1,686,761. MASONRY ARCH FOR HIGH-TEMPERATURE USE. FREDERICK HARWOOD NORTON, East Liverpool, Ohio. Filed Nov. 18, 1924. Serial No. 750,533. 4 Claims. (Cl. 110—99.)



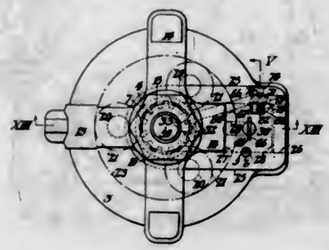
1. A furnace roof of refractory material for use under high temperature conditions, said roof being composed of two sections, each of which is free to move as a unit when heated, and said roof being of substantially an inverted catenary shape and supported only at its edges.

1,686,762. WIRE STRETCHER. JOHN W. OSBORNE, Alsey, and CHARLES C. FREITAG, Winchester, Ill. Filed Jan. 31, 1927. Serial No. 165,007. 2 Claims. (Cl. 254—77.)



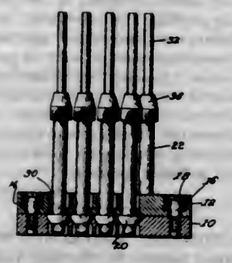
1. A wire stretcher of the character described, comprising an elongated body member, a spur upon one end of the body for securing the same to a fixed element, a fixed jaw upon one face of said body adjacent the spur carrying end and curving across the face thereof, a pivotally mounted jaw upon the same face of the body as said fixed jaw and having one face arranged in opposed relation to the working face of the fixed jaw, the working face of said pivoted jaw being eccentrically curved to increase or decrease the space between the jaws when the pivoted jaw is swung about its center, a control arm carried by the pivoted jaw and extending beyond one side of the body member, a band surrounding and slidably secured to the body member adjacent the outer end thereof, and a link connection between said band and the outer end of said arm for swinging the jaw upon shifting the band longitudinally of the body member.

1,686,763. VEHICLE LOCK AND ELECTRIC CIRCUITS. ARTHUR E. PAIGE, Philadelphia, Pa. Filed Mar. 24, 1924. Serial No. 701,597. 3 Claims. (Cl. 70—127.)



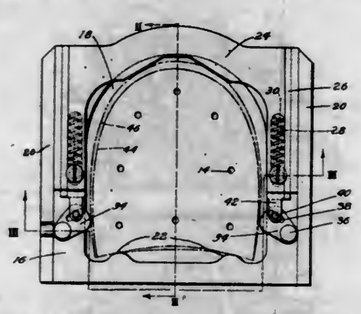
1. The combination with a stationary steering column; of a rotary shaft journaled in said column and having a circular series of locking recesses; a cover for said column, having a lock casing socket with which said locking recesses are adapted to successively register when said shaft is turned; a key lock including a body fitted to said casing cesses are adapted to successively register when said shaft prevent steering movement of said shaft, and to release said shaft; said body having a notch in its perimeter; an electric switch comprising a movable member extending in said notch and arranged to be moved to operate said switch by the reciprocatory movement of said lock body; a motor for said vehicle; and an electric circuit including said switch arranged to control the operation of said motor; whereby, when said body is positioned to lock said shaft from turning, it shifts said switch to prevent operation of said motor, and when said body is positioned to permit operation of said shaft to steer the vehicle, it shifts said switch to permit operation of said motor; whereby an electric circuit may be maintained from a stationary portion of the vehicle to the rotary steering wheel thereof, despite rotation of the latter.

1,686,764. NAILING MACHINE. ELMER R. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 5, 1925. Serial No. 48,873. 11 Claims. (Cl. 1—32.)



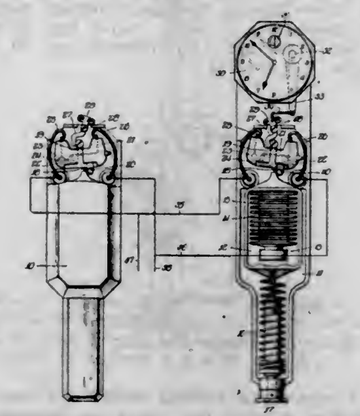
1. In a nailing machine, the combination of a plurality of self adjustable nail guiding tubes supported to permit transverse movement of their nozzle ends, a plurality of nail drivers operable through said tubes, and means, separate from the nail drivers, tending yieldingly to maintain the tubes in predetermined, definite positions.

1,686,765. HEEL-NAILING MACHINE. ELMER R. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 28, 1926. Serial No. 132,209. 8 Claims. (Cl. 1—32.)



1. A heel holder comprising fixed, spaced abutments arranged to be engaged by a curved heel breast at separated points, a rear gage movable toward said abutments to engage the rear edge of the heel, and side gages connected to the rear gage and movable thereby into engagement with the side edges of the heel.

1,686,766. THERMOSTATIC CONTROL SYSTEM. HERBERT J. SAUVAGE, Chicago, Ill., assignor to trustees of The Electro Thermostatic Control Company, Chicago, Ill., a Trust Estate. Filed Jan. 11, 1927. Serial No. 160,386. 1 Claim. (Cl. 236—46.)

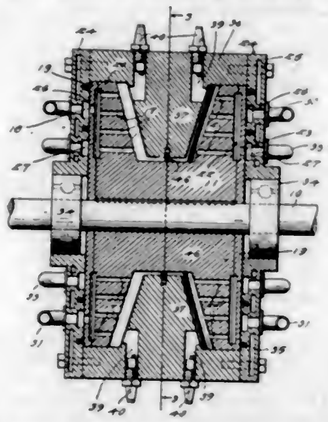


The combination of an electric switch, a thermostat to open and close said switch, means to hold said switch against response to the action of said thermostat, a clock having an adjustable spring-actuated alarm mechanism, and means connecting said alarm mechanism to said holding means, whereby when the latter is actuated to maintain the switch against response to the action of the thermostat, said alarm-spring will be wound up, and when the alarm mechanism is released, said spring in unwinding will restore said switch to responsive action to said thermostat.

1,686,767. ROTARY INTERNAL-COMBUSTION ENGINE. JAMES ANGLO SAXON, Sapulpa, Okla. Filed Mar. 31, 1927. Serial No. 179,905. 10 Claims. (Cl. 123—14.)

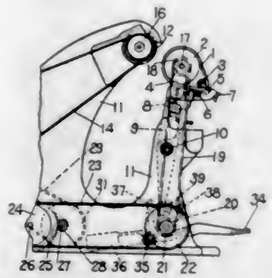
1. In a rotary internal combustion engine, a rotor having a sinuous groove in its periphery, a stator having a rib extending into said groove and of less width than the mean width of said groove, said rib having transversely extend-

ing slots formed therein, plates slidable in the slots of said rib and fitting between the walls of the sinuous groove, adjacent plates combining with the walls of the rotor groove and the stator to produce at opposite sides of the



rib of the stator a pair of chambers of which the plates at all times form the end walls and means for introducing an explosive charge to said chambers and for exhausting the products of combustion therefrom.

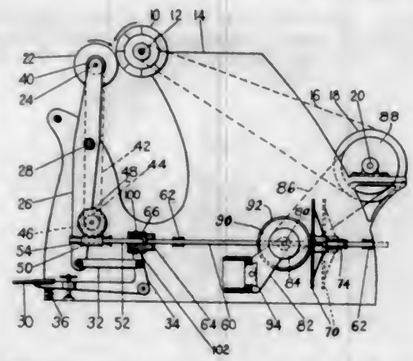
1,686,768. MACHINE FOR TREATING HIDES, SKINS, LEATHER, AND OTHER LIKE PIECES OF MATERIAL. GUSTAV A. SCHETTLER, Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Sept. 8, 1926, Serial No. 134,190, and in Great Britain Sept. 29, 1925. 20 Claims. (Cl. 149—14.)



1. In a machine for treating leather and other like pieces of work, a rotary tool, means for presenting the work to the tool comprising an endless band, a member for backing the band along the line of thrust of the tool on the work, means comprising driving means for said member arranged positively to drive the band for feeding the work at a uniform rate past the tool, and means for causing relative bodily movement between the tool and the endless band to permit the work to be introduced therebetween.

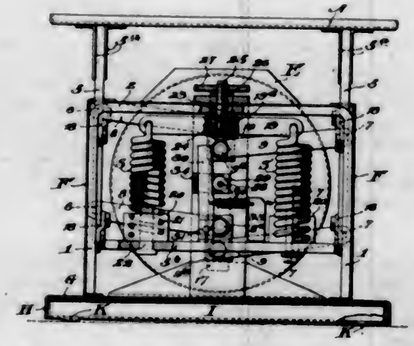
1,686,769. MACHINE FOR OPERATING UPON HIDES, SKINS, LEATHER, AND OTHER SIMILAR PIECES OF WORK. GUSTAV A. SCHETTLER, Leeds, England, and OSKAR BÖTTGER, Frankfort-on-the-Main, Germany, assignors to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Sept. 8, 1926, Serial No. 134,192, and in Germany Oct. 30, 1925. 22 Claims. (Cl. 149—16.)

1. In a machine for operating on hides, skins, leather, and other like pieces of work, a tool for operating on a piece of work, work supporting and feeding means movable between work receiving and work presenting positions relatively to the tool, power means for operating said means to feed the work, and manually operable means constructed and arranged to enable the operator to control directly the bodily movement of the work supporting



and feeding means between work receiving and work presenting sections and also to control connection and disconnection of said means with respect to its power driving means, the last-recited means comprising a direct connection between the manually operable means and the said power means.

1,686,770. WEIGHING SCALE. FRED A. SCHMITZ, Cleveland, Ohio. Filed June 23, 1927. Serial No. 200,971. 9 Claims. (Cl. 265—68.)

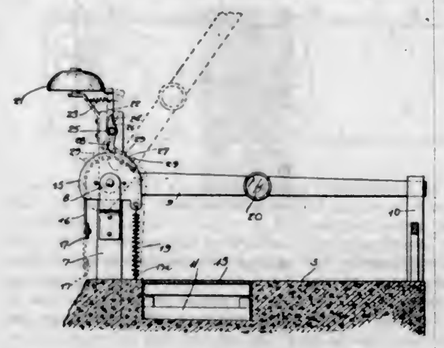


1. A weighing scale including a platform, a pedestal member for supporting the platform including spaced arms and a transverse connecting portion, springs connected to the transverse portion of said pedestal, a spring suspension member, means for adjusting the same, a frame, pivot shafts carried by said frame, compensating links connected at one end to said arms of the pedestal member, links mounted on said pivot shafts and connected to said compensating links, and a dial operatively connected with said pedestal member.

1,686,771. AUTOMATIC RAILROAD-CROSSING GATE AND SIGNAL. DANIEL SCHNEIDER, Lodi, Calif. Filed Apr. 21, 1927. Serial No. 185,520. 2 Claims. (Cl. 39—18.)

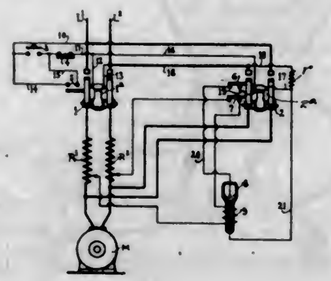
1. In a railroad highway crossing gate, a post at one side of the railroad tracks and at the center of the highway, a gate bar pivoted at its inner end on the post for vertical swinging movement and adapted to be lowered to closed position extending half way across the highway, a

hinged depressible platform ramp in the highway adjacent and at the approach side of the gate and having a free exit end, means operatively connecting the free end of the ramp to the gate for opening the latter upon depression of the ramp, yieldable means to normally lower the gate and raise the ramp, said connecting means embodying an



inwardly projecting bar rigid with the free end of the ramp, a pulley element on the pivoted end of the gate, and a flexible member attached to and passed over the pulley element and having its lower end attached to the bar and the yieldable means comprising a spring attached at one end to the pulley element and ground anchored at its other end.

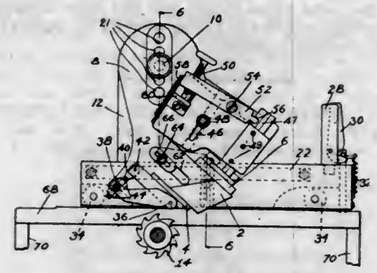
1,686,772. MOTOR STARTER. EDWIN W. SEEGER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 23, 1923. Serial No. 633,834. 5 Claims. (Cl. 172—288.)



1. The combination with a motor, of potential reducing means to be included in circuit therewith for starting, means to establish starting connections and running connections progressively, and a thermal device to effect operation of the latter means for establishment of running connections subject to delay pending a given operation of said device, said device having a heating coil and connections therefor to effect the aforementioned operation of said device within a given period after establishment of starting connections even though the motor fails to accelerate and to render such period variable by acceleration of the motor therewithin.

1,686,773. WOOD-HEEL MACHINE. WESLEY J. SHAW, Haverhill, Mass., assignor to New England Wood Heel Co., Haverhill, Mass., a Corporation of Massachusetts. Filed July 21, 1925. Serial No. 45,003. 9 Claims. (Cl. 12—47.)

1. A machine of the class described having, in combination, two elements, one of the elements comprising means for clamping an article, the other element comprising a knife shaped to cut a groove in the article, a sliding member, and means connecting the sliding member with one of the elements to effect a movement of the said one



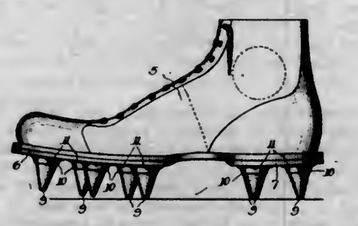
element in a curved path adjacent to the other element in response to a sliding movement of the sliding member, whereby the groove is cut in the article along a curve.

1,686,774. SUPPORTING MEANS FOR GOLF BAGS. ELMER A. SPERRY, Brooklyn, N. Y. Filed Sept. 10, 1920. Serial No. 409,308. 19 Claims. (Cl. 150—1.5.)



1. In a golf bag support, a plurality of movable supporting legs, means for moving said legs, and means for cushioning the blow transmitted initially by said first mentioned means to said legs.

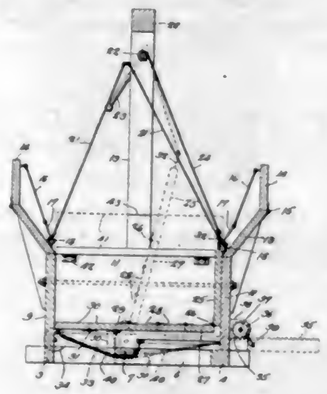
1,686,775. CALK FOR ATHLETIC SHOES. EDWARD C. STEINAMAN, Chicago, Ill. Filed Feb. 27, 1925. Serial No. 11,932. 1 Claim. (Cl. 36—59.)



A calk structure consisting of a spur body tapered toward the outer end at its base and having a flat inner surface, a collar including a tapered portion snugly en-

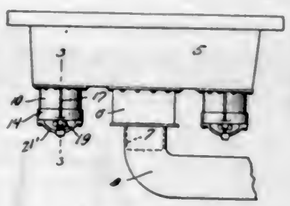
circling the base of the spur body to confine the latter against withdrawal from the collar and an annular securing flange formed on the inner edge of the tapered portion and extending radially thereof to locate its inner face in the same plane as the said flat inner surface of the spur body, said flange having a series of openings for receiving securing elements.

1,686,776. BOTTOM DELIVERY BODY FOR VEHICLES. ITURKE V. TUCKER, Nacogdoches, Tex. Filed Aug. 20, 1927. Serial No. 214,318. 7 Claims. (Cl. 298—31.)



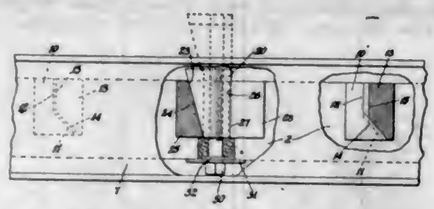
1. A vehicle body, separate groups of hingedly connected members constituting the bottom of the body, means for supporting the members of one group in load retaining positions, means for shifting said supporting means to release the members of said group for downward movement under the weight of the load supported thereby, and means for elevating the members of the other group to deliver the load supported thereby through the space provided, by the lowered members of the first group.

1,686,777. FORCED-DRAFT-PAN VALVE STRUCTURE. OTTO G. WERNER, Rochester, N. Y., assignor to John C. Werner, Genoa, Ohio. Filed Sept. 16, 1927. Serial No. 220,000. 6 Claims. (Cl. 110—74.)



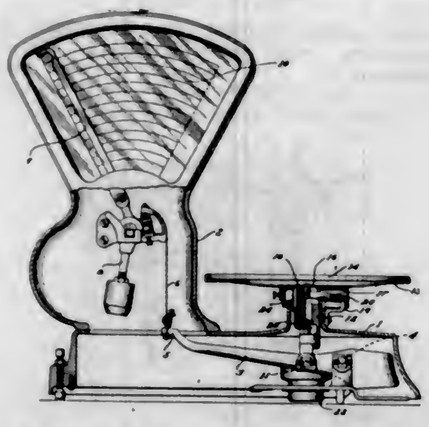
1. In combination, a forced draft pan having a bottom provided with an opening, a cylinder attached to the bottom registering with the opening, a plate detachably mounted on the outer end of the cylinder, means for holding the plate in place, said plate being provided with a valve seat, a plate valve closable in said seat, a spider of bowed construction having its ends attached to said valve plate and provided with a central aperture, a valve stem extending from the valve plate through the aperture, and a spring disposed about the valve impinging against the valve plate and the spider.

1,686,778. SECURING MEANS FOR DEMOUNTABLE RIMS. PHILLIP A. WHITE, Long Island City, N. Y. Filed Apr. 22, 1921. Serial No. 463,548. 3 Claims. (Cl. 301—17.)



1. In combination a wheel having a felloe presenting a lock nut receiving recess, a felloe band mounted on said felloe, a tire carrying rim of a size to surround said felloe band, complementary interlocking means on the rim and band respectively for locking the rim to the band upon movement of the rim along the band, a lock nut having a portion to extend into the recess in the felloe and a wedging portion to engage and move the rim along the band, and a bolt to draw the lock nut into locking position.

1,686,779. WEIGHING SCALE. LEWIS C. WETZEL, Windsor, Ontario, Canada, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 25, 1924. Serial No. 694,867. 6 Claims. (Cl. 265—36.)

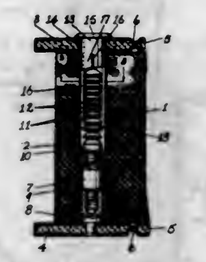


1. In a device of the class described, in combination, a supporting frame, a lever fulcrumed on said supporting frame and having a load pivot, a commodity receiver supported upon said load pivot, and a link positioned substantially above said lever and pivotally connecting said commodity receiver with said frame, the axes of the pivotal connections between said link, the commodity receiver and frame and the load and fulcrum pivots being in parallelogrammatic relation and arranged so that said pivotal axes lie in substantially vertical planes.

1,686,780. BINDER. GEORGE P. WIGGINTON, Kalamazoo, Mich., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 7, 1924. Serial No. 704,655. 1 Claim. (Cl. 281—25.)

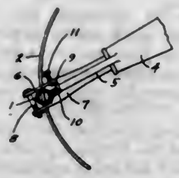
The combination in a binder for sheets perforated to receive binding posts, of binder bars, a binding post secured to the bottom binder bar and having a plurality of external annular grooves providing ratchet-like annular teeth detachably connected to said base section, and a

coacting tubular member disposed through the upper binder bar to telescopingly embrace said terminal section, said tubular member being longitudinally slitted providing a plurality of spring pawls having inturned ends coacting



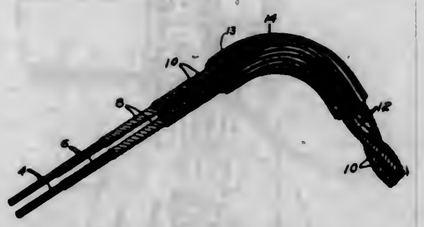
with the said teeth when the parts are telescoped within the said body, the perforations in said sheet body being of such diameter as to closely embrace said tubular member preventing disengagement of said spring pawls.

1,686,781. SELF-CLEANING RAKE. WARD S. WILLIAMSON, Rock Falls, Ill. Filed Aug. 17, 1925. Serial No. 50,694. 1 Claim. (Cl. 55—10.)



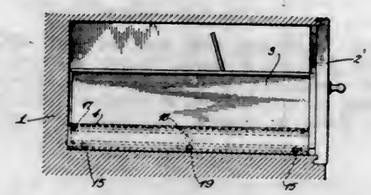
A device of the class described, comprising a handle, a frame on one end thereof provided with spaced jaws rigidly united one of which is fitted with a stop and the other with a set-screw adapted for operation in opposition to said stop, and a rake-head rockingly mounted in said jaws, and provided with a plurality of teeth and also provided with a projection positioned between said stop and set-screw and subject to regulation thereby.

1,686,782. ELECTRICAL CABLE. HANS V. WODTKE, Buffalo, N. Y., assignor, by mesne assignments, to General Cable Corporation, New York, N. Y., a Corporation of New Jersey. Filed Oct. 14, 1922. Serial No. 594,440. 1 Claim. (Cl. 173—264.)



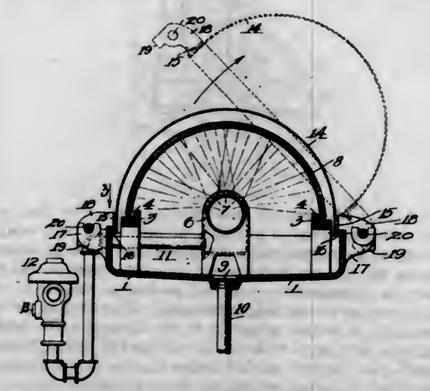
An electrical cable comprising, in combination, a pair of conductors, inner jackets of vulcanizable material, one about each of said conductors, and intermediate jackets of non-combustible, fibrous material, one about each inner jacket and embedded therein, fibrous, non-combustible, filler material disposed in the valleys presented by adjacent portions of said intermediate jackets, and an outer molded cylindrical jacket of flexible vulcanizable material of relatively high thermal conductivity, the said outer jacket being formed with a plurality of longitudinally extending integral ribs to provide a heat radiating surface having a superficial area exceeding by approximately 50% the normal superficial area of a smooth cylindrical surface of like diameter.

1,686,783. DRAWER SUPPORT FOR ARTICLES OF FURNITURE. CARL F. WOLTERS, Marietta, Ohio, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 13, 1926. Serial No. 80,863. 5 Claims. (Cl. 45—77.)



3. A drawer support having, in combination, a casing member, a carrying member entirely supported by said casing member, a drawer member entirely supported by said carrying member, and means between the casing and carrying members adapted to compensate for variations in the casing member, including a roll mounted on the carrying member for movement laterally to the direction of movement of said member and a cooperative, rigidly mounted roll on the carrying member.

1,686,784. COOLER FOR STEREOTYPE PRINTING PLATES. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Nov. 21, 1923. Serial No. 676,197. 7 Claims. (Cl. 62—11.)



1. In a cooling device for a stereotype printing plate, the combination with supports for the plates and a tank below the supports for receiving the water, of a spray pipe having spray perforations through its upper surface, a flush valve through which a predetermined amount of water can be discharged into the spray pipe and the supply then cut off automatically, and a removable cover over the trough covering the entire surface of the plate when located on said support.

1,686,785. FOOD PRODUCT AND PROCESS OF PREPARING THE SAME. ISAIAH N. ZELLER, New York, N. Y. Filed Apr. 18, 1919, Serial No. 291,103. Renewed Apr. 23, 1927. 9 Claims. (Cl. 99—5.)

1. A food product consisting of dried fruit reduced to flakes and compactly pressed together.

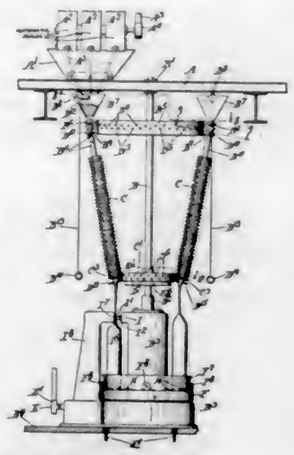
4. The process of preparing flakes of dried fruit which consists in drying pulpous fruits, reducing the dried fruits to flakes, and then drying the flakes.

1,686,786. FOOD PRODUCT AND PROCESS OF MAKING SAME. ISAIAH N. ZELLER, Brooklyn, N. Y. Filed Dec. 11, 1925. Serial No. 74,893. 6 Claims. (Cl. 99—11.)

1. A food product consisting of a solid compressed mass of different kinds of dried fruit.

6. A food product consisting of a solid compressed mass of a plurality of superimposed layers of dried fruit, each layer having an edible coating, and adjacent layers consisting of different kinds of dried fruit.

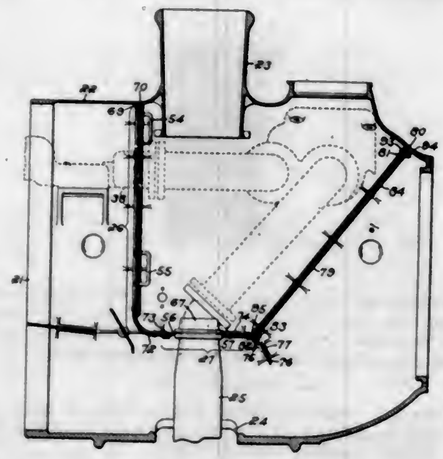
1,686,787. MACHINE FOR MAKING AND FILLING BAGS. ADELMER M. BATES, Chicago, Ill., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill., a Corporation of Delaware. Filed Dec. 6, 1919. Serial No. 343,073. 45 Claims. (Cl. 226—53.)



28. In a machine for making filled bags from bag tubes and filling material, a plurality of feed tubes each adapted to carry a longitudinally collapsed bag tube, a support, means for detachably fastening the food tubes to the support in substantially vertical positions, means to continuously move the support to carry the tubes in an endless path, a hopper attached to the support above and in registry with each feed tube, a stationary hopper beneath which the support carried hoppers pass in succession, a plurality of charge measuring devices discharging in succession into the same stationary hopper, a sewing machine in the path of the bag tubes beneath the feed tubes, and means to actuate the sewing machine continuously.

44. In a bag filling machine a large number of receiving hoppers having constricted discharge apertures, a guiding hopper adapted to come into register with them successively, a plurality of automatic scales all adapted to discharge their loads into the guiding hopper, selective means for automatically tripping said scales to cause an instantaneous discharge of a pre-weighed charge of material through the guiding hopper into successive receiving hoppers, means for operating said scales to weigh out another charge as soon as one has been discharged, and means for moving the receiving hoppers in a closed path beneath the guiding hopper at such rate that each receiving hopper will have discharged its contents between successive visits to the guiding hopper and at such rate that each scale will have time to weigh out a new charge before the next receiving hopper into which it is to discharge reaches the guiding hopper.

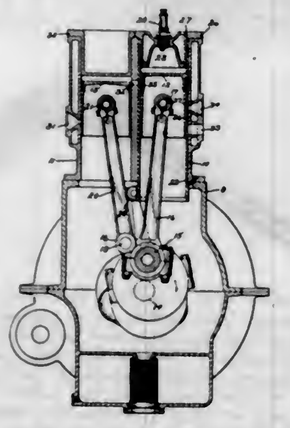
1,686,788. LOCOMOTIVE-SMOKE-BOX STRUCTURE. WILLIAM I. BEAN, West Haven, Conn. Filed June 2, 1925. Serial No. 34,405. 8 Claims. (Cl. 110—122.)



1. In a smoke-box structure, the combination of a smoke-box, a smoke stack and a deflector to deflect the gases and smoke on their way to said smoke stack, said deflector comprising a plate, means secured to said plate and presenting therewith a groove, and a part received in said groove.

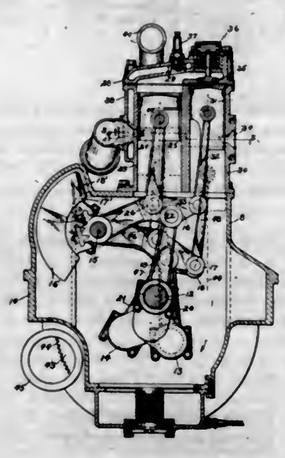
5. In a smoke-box structure for locomotives, the combination of a smoke-box having a groove, a smoke stack and a deflector to deflect the gases and smoke on their way to said smoke stack, said deflector comprising a sheet metal plate having a thickness less than the width of said groove and having a marginal portion received in said groove and having a part bent to provide a thickness within said groove greater than the thickness of said plate.

1,686,789. SLEEVE-VALVE TWO-CYCLE MOTOR. EDWARD H. BELDEN, Toledo, Ohio, assignor to Belden Patents Incorporated, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 21, 1923. Serial No. 682,010. 2 Claims. (Cl. 123—70.)



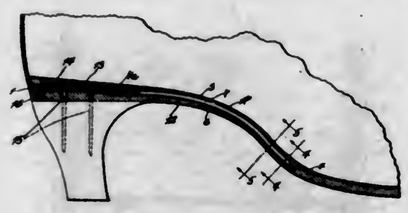
1. In an internal combustion motor, a working cylinder and piston, a charging cylinder and piston at one side of and parallel with the working cylinder, there being a port connecting the cylinders, a sleeve valve governing the port, a crank shaft, means connecting the pistons to a crank on the shaft, an eccentric on the shaft, and a link connecting the eccentric to the sleeve.

1,686,790. COUNTERBALANCED-PISTON MOTOR. EDWARD H. BELDEN, Toledo, Ohio, assignor to Belden Patents Incorporated, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 21, 1923. Serial No. 682,002. 8 Claims. (Cl. 123—70.)



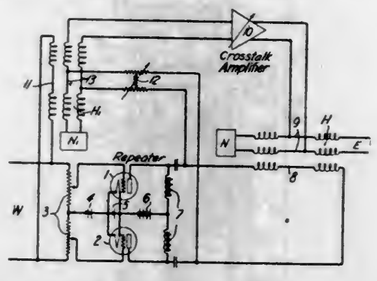
2. In an internal combustion motor, a working cylinder having an open end, a lever fulcrumed beyond and at one side of said end, the fulcrum being at an end of the lever, a charging cylinder parallel with and on the other side of the working cylinder, pistons in the cylinders, rods connecting the pistons to the lever, a crank shaft, and a link connecting a crank on the shaft to a point on the lever between the points at which said rods are attached.

1,686,791. SHANK FOR TURN SHOES. JULIUS R. BINDNER, St. Louis, Mo. Filed Jan. 28, 1927. Serial No. 164,160. 2 Claims. (Cl. 36—76.)



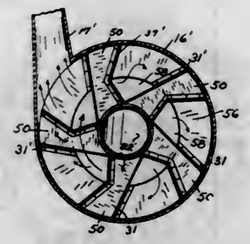
1. A shoe comprising a sole having a longitudinal groove in the upper side of the shank portion thereof and having a longitudinal outwardly undercut channel at each side of the forward portion of said groove, a metallic plate having side portions of approximately uniform thickness resting upon the top of the sole at the sides of said groove, a bead rigid with the underside of said plate fitting closely in said groove, and a pair of outwardly and downwardly inclined tongues integral with the forward end of said plate extending downwardly and laterally from near the plane of said bead into said channels.

1,686,792. TRANSLATING SYSTEM. HAROLD S. BLACK, Newark, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Feb. 3, 1925. Serial No. 6,529. 13 Claims. (Cl. 179—171.)



1. The method of suppressing even and odd order distortion components produced in an electric wave translating system and lying within the same frequency spectrum as the undistorted components which comprises isolating a portion of said distortion components from the system and, reimpressing upon the output circuit of said system said isolated distortion currents in opposite phase relation to the even and odd order distortion components therein.

1,686,793. ART OF ELEVATING GRAIN. CARL BRCECINSKI, Mauston, Wis. Filed Nov. 13, 1924. Serial No. 749,777. 4 Claims. (Cl. 302—37.)

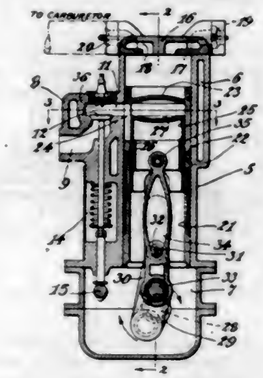


1. In a device of the character described, the combination with a rotor comprising a set of chutes supported for rotation about a common axis and interconnected at their respective ends adjacent said axis, said chutes extending inwardly of the periphery of the rotor and being inclined rearwardly of the direction of rotation thereof, of a casing providing an outlet, and inlet areas leading respectively to the space between the ends of said chutes and to the spaces between said chutes outwardly of their interconnection, and a hopper arranged to deliver material into one of said inlet areas.

1,686,794. INTERNAL-COMBUSTION ENGINE. JOHN BRUGGER, New York, N. Y. Filed Jan. 13, 1927. Serial No. 160,812. 2 Claims. (Cl. 123—50.)

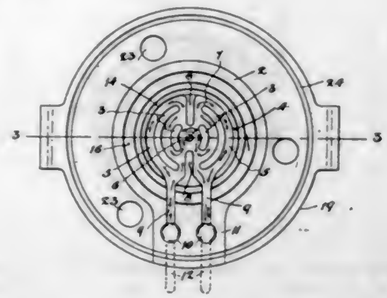
1. In an internal combustion engine, a cylinder, two pistons in said cylinder reciprocating one within the other and having spaced heads forming a combustion chamber therebetween, a power shaft having spaced cranks projecting from one side of its axis and a third crank between said spaced cranks projecting upon the opposite side of the shaft axis and out of radial alignment with said first named cranks, a pair of rods connected at one of their ends with said first named cranks, a wrist pin connection between the other ends of said rods and the lower end of the outer piston, a relatively long rod directly connected at one end with said last named crank, and a wrist pin connecting the

other end of said latter rod with the inner piston, said wrist pins being located in intersecting relation to the central axial line of the pistons, and said latter rod having



a longitudinally extending opening accommodating the first named wrist pin to permit of the relative angular movement of said connecting rod.

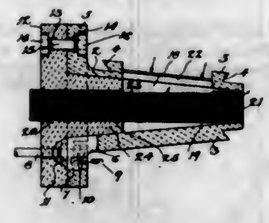
1,686,795. ELECTRIC HEATING UNIT AND METHOD OF FORMING AND ASSEMBLING SAME. EGERTON RYERSON CASE, Toronto, Ontario, Canada. Filed Dec. 12, 1924. Serial No. 755,489. 12 Claims. (Cl. 219—37.)



10. In an electric heating device, the combination of a unitary resistance element; a support therefor comprising a block of suitable material having a multiplicity of passages formed therein and intersecting each other at a series of points to provide a multiplicity of selectable paths, and further provided with two outlets; and a terminal mounted in each of said outlets, whereby a resistance element of predetermined capacity may be introduced into said support through and along as many of said passages as may be adapted to distribute and/or localize the resistance element in any desired area of the device, and adapted to supply thereto that length of resistance element calculated to afford the temperature desired; the said element being connected at its ends to said terminals and constituting a circuit therebetween.

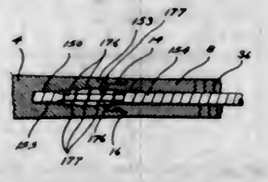
1,686,796. SUPPORT FOR ELECTRIC RESISTANCE ELEMENTS. EGERTON RYERSON CASE, Toronto, Ontario, Canada. Filed Aug. 20, 1925. Serial No. 51,302. 8 Claims. (Cl. 219—34.)

7. In combination a support made of any suitable material exteriorly provided with a plurality of radially-disposed spaced ribs integrally formed therewith and extending substantially longitudinally thereof; an exterior attaching flange at one end of said support, provided with a pair of spaced openings therethrough located laterally of and in spaced relation to said support; the ends of the de-



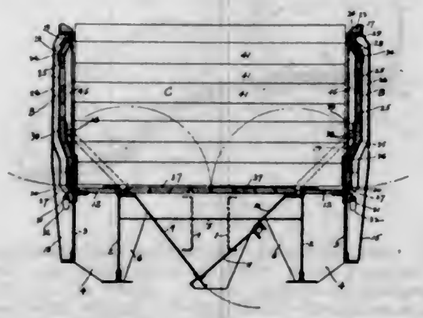
sired ribs adjacent said flange being spaced apart therefrom; a resistance element mounted on said support and around and between said ribs, and a terminal located in each of the said openings and to which the ends of said resistance element are secured.

1,686,797. SPECTACLE TEMPLE. GEORGE H. CHASE and OSCAR H. FLODIN, Rochester, N. Y., assignors to Bausch and Lomb Optical Company, New York, N. Y., a Corporation of New York. Filed May 17, 1926. Serial No. 109,583. 5 Claims. (Cl. 88—52.)



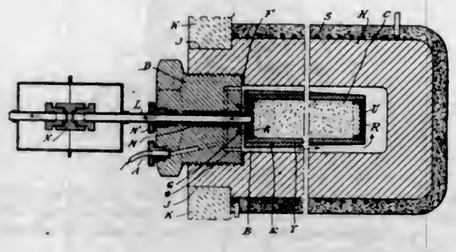
1. A spectacle temple comprising a member adapted to be hinged at the forward end, a reinforcing member projecting rearward beyond the rear end of the first-named member, and a non-metal helically cut tube member mounted on the projecting portion of the reinforcing member, one of the first-named and third-named members having a countersink and the other having a portion secured in the countersink.

1,686,798. RAILWAY CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed June 27, 1927. Serial No. 201,877. 13 Claims. (Cl. 105—243.)



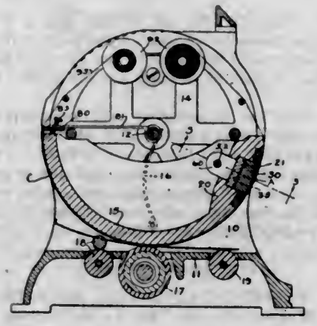
1. In a railway car, the combination with spaced plow guides on either side of the car; of a level floor extending between the plow guides; a side wall spaced outwardly beyond the plow guides; and means adapted to bridge the distance at an incline between the side walls of the car and the level floor.

1,686,799. APPARATUS FOR THE SYNTHESIS OF AMMONIA. GEORGES CLAUDE, Paris, France, assignor, by mesne assignments, to Lazote Inc., a Corporation of Delaware. Filed Dec. 22, 1921, Serial No. 524,087. Renewed Dec. 17, 1926. 10 Claims. (Cl. 23—289.)



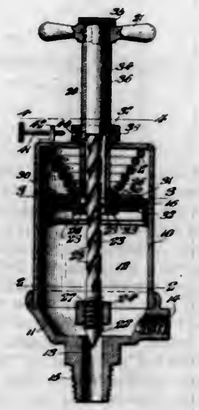
10. An apparatus for the synthetic production of ammonia, comprising an outer pressure-supporting tube provided with an external heat-insulating covering and an electrical heating circuit within the said covering, said outer tube being constructed and arranged so as to resist the physical and chemical conditions to which it is subjected, an inner tube containing the catalyzing material and constructed with walls having a variable thermal conductivity along the length of said tube, a member constituting the closure of the said outer tube, said member and the portion of the outer tube with which it engages being constructed with male and female screw theads of interrupted formation, and means being provided for rotating the closure member into and out of engagement, an inlet conduit passing through the said member and through which conduit the gases that are to undergo reaction are introduced into the apparatus so as to cool the aforesaid member, and a conduit which constitutes the exit tube for the gases after reaction carried by but thermally insulated from the aforesaid member, the said conduit constituting the exit tube being continued beyond said member so as to project into the interior of the pressure-supporting tube and carrying on its extended portion the aforesaid inner tube containing the catalyzing material.

1,686,800. PRINTING DEVICE. PETER M. COLQUHOUN, Lakewood, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 1, 1926. Serial No. 151,878. 20 Claims. (Cl. 101—52.)



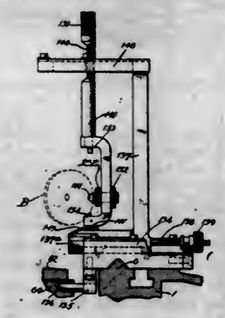
1. In a printing machine, the combination of means for carrying a body form, means for carrying an address form periodically changeable, and means for changing the height-to-paper of the address form to bring it into surface registration with the body form.

1,686,801. GREASE CUP. JOHN F. CULP, Philadelphia, Pa., assignor to Ideal Lubricator Company, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 5, 1927. Serial No. 166,239. 5 Claims. (Cl. 184—45.)



1. The combination of a grease cup having a discharge outlet, an internally threaded member fixed in said cup, a needle valve threaded through said member and arranged to control said outlet, a spring pressed plunger for discharging grease through said outlet, and means operated by said plunger for turning said valve in said fixed member to gradually open said outlet.

1,686,802. DRESSING ATTACHMENT FOR HOB-GRINDING MACHINES AND METHOD OF DRESSING GRINDING WHEELS. JOHN EDGAR, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Original application filed June 28, 1916, Serial No. 106,339. Divided and this application filed Mar. 19, 1923. Serial No. 625,939. 8 Claims. (Cl. 125—11.)



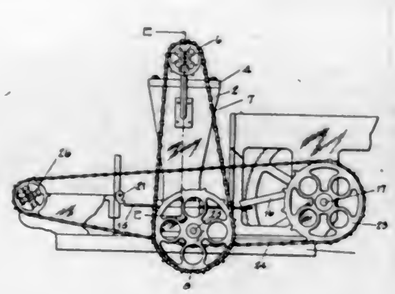
1. The combination with means for rotatably supporting a grinding tool, of an attachment for dressing the tool, said attachment comprising a base, a base mounted upon the first base for longitudinal adjustment thereon, a templet carried by the second base, and a dressing tool carrier comprising an arm having a dressing tool thereon, the lower end of said arm being mounted on the second base to turn on an axis substantially coincident with the point of the dressing tool, said arm being adapted to slide along said templet to guide the dressing tool carried thereby in a predetermined path with respect to the peripheral surface of the grinding wheel.

1,686,803. OUTBOARD MOTOR. OLE EVINRUDE, Milwaukee, Wis., assignor to Elto Outboard Motor Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 2, 1926. Serial No. 78,745. 2 Claims. (Cl. 115—41.)



1. An outboard motor comprising a bracket adapted for attachment to a boat, a motor and housing assembly mounted on said bracket for tilting movement, said housing being vertically disposed normally, a propeller adjacent the lower end of the housing, means entirely contained within the housing for supporting the propeller and for driving the same from the motor, and a shoe rigid with the lower end of the housing and arranged below the propeller and having a broad bottom engaging surface of relatively great area operable to cause tilting movement of said housing upon continued forward movement of the boat after any portion of the shoe strikes bottom and to prevent accumulation of matter between the said propeller and the adjacent portion of the housing.

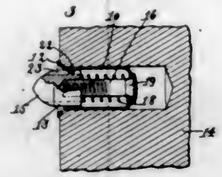
1,686,804. DISPENSING MACHINE. ADINO F. FILES, Maumee, Ohio. Filed Feb. 12, 1927. Serial No. 167,817. 5 Claims. (Cl. 107—17.)



2. In a dispensing machine for dispensing separated quantities of a substance, a hopper, a spindle extending to the bottom of the hopper, a plurality of blades connected to the spindle, certain of said blades bent for raising the material in the hopper and other of the blades bent for lowering the material in the hopper, a plate having an opening located at the bottom of a hopper and movable through the lower end of the hopper, means for reciprocating the said plate so as to place the part of the plate having the opening alternatively in position on the inside and outside of the hopper.

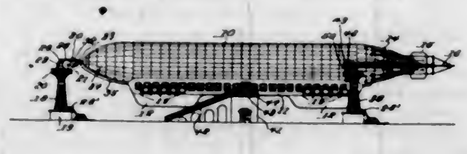
1,686,805. DOOR CATCH. FREDERICK E. FORD, Arlington, Mass. Filed Feb. 24, 1923. Serial No. 620,947. 1 Claim. (Cl. 292—74.)

In a door catch of the character described, in combination, a casing, a catch member having in its outer surface an axially extended slot and insertible into said casing from one end thereof and capable of being reciprocated in said casing and of being manually rotated therein to adjust it with relation to the end of the casing, means within the casing for supporting said catch member and upon which it may be rotated, and a yielding member carried by said casing and movable into and out of said slot, said member being normally extended into said slot in operative relation



to the catch member to restrain the latter from being unintentionally rotated and being moved out of said slot and into inoperative relation to the catch member by manual rotation of the latter.

1,686,806. MOORING MEANS FOR AIRSHIPS. RALPH P. FOX, Harrisburg, Pa. Original application filed Mar. 6, 1926, Serial No. 92,827. Divided and this application filed Aug. 10, 1926. Serial No. 128,436. 8 Claims. (Cl. 244—2.)



1. In a device of the class described, a cable for mooring an air craft, devices for winding, retaining and releasing the cable, and a channeled guard mounted on and extending partly around the hull of the craft, the cable passing thru the guard and being protected thereby.

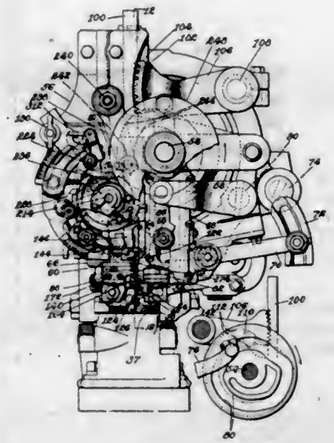
8. The combination of a plurality of masts for mooring an air craft, tubular swiveled cable guiding means each including a pulley wheel, carried by the masts, cables extending downwardly thru the masts, means for securing the cables at the base of the masts, cables carried by the craft, at the nose portion thereof and on opposite sides of the hull forwardly of the stern, and means for winding, retaining, and releasing the cables last named, these cables being adapted for detachable connection with the cables first named.

1,686,807. TREATMENT OF PEAT. FELIX GINSBACH, Luxemburg, Luxemburg, assignor to Heinrich Horst, Berlin-Charlottenburg, Germany. Filed Apr. 23, 1927, Serial No. 186,177, and in Luxemburg Apr. 30, 1926. 3 Claims. (Cl. 44—27.)

1. A process for de-watering peat by compression in stages, the first stage consisting in compressing and de-watering raw peat after admixture with it of peat previously de-watered by compression, and the second stage consisting in again compressing and de-watering the product of the first stage after first adding dry peat, substantially as hereinbefore described.

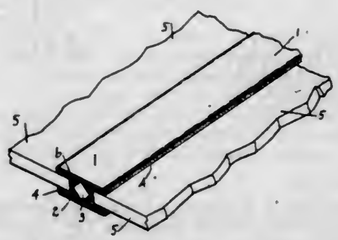
1,686,808. FASTENING-INSERTING MACHINE. GEORGE GODDU, Winchester, and FRED L. MACKENZIE, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 23, 1921. Serial No. 463,744. 144 Claims. (Cl. 1—30.)

1. A machine for inserting fastenings having, in combination, means for inserting fastenings of a plurality of different kinds, and automatically operating means for insuring that a fastening definitely related to the end of each of several successive fastening inserting runs of the machine shall be of the same one of said different kinds



irrespective of the number of fastenings inserted during the run of the machine and irrespective of the thickness of the work.

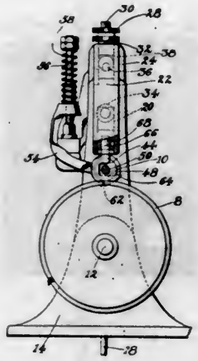
1,686,809. CAME. GEORGE A. GRAU, Cincinnati, Ohio. Filed July 25, 1924. Serial No. 728,256. 1 Claim. (Cl. 189—77.)



A came of the character described, body portions, connected by a heart element, and spaced apart on each side of said heart element to receive the glass, and composition for holding and suspending the glass around its entire edges, said heart element shaped other than vertical in face outline, the face of the heart being smooth.

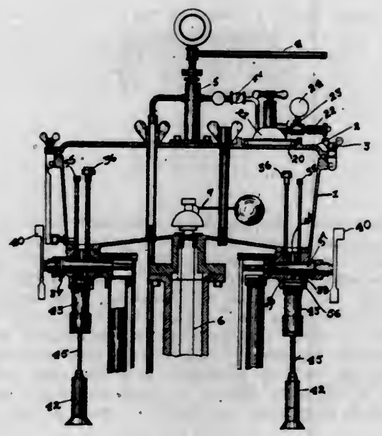
1,686,810. SEAM-PRESSING MACHINE. ARTHUR E. GREENE, Endicott, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 30, 1925. Serial No. 19,341. 9 Claims. (Cl. 69—7.)

1. In a machine of the class described, a work support over which a piece of work is to be fed, and a reciprocating tool co-operating with the work support to press the work while it is being fed, said support and said tool being



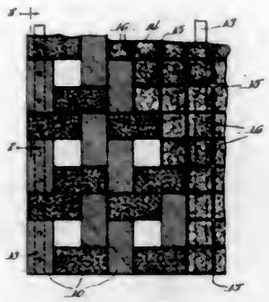
respectively constructed and relatively arranged to form a temporary depression in the work to receive said tool to facilitate the guiding of the work in a straight path.

1,686,811. BOTTLE-FILLING MACHINE. SAMUEL GREENHOUSE, Akron, Ohio. Filed May 15, 1922. Serial No. 560,876. 10 Claims. (Cl. 226—93.)



7. That method of bottling carbonated beverages which consists in first maintaining a body of carbonated liquid in an enclosed chamber, causing a continuous escape of air from the top of said chamber and withdrawing the carbonated liquid from the bottom of the chamber.

1,686,812. TILED WALL OR THE LIKE. GEORGE D. HAINES, Park Ridge, Ill., assignor to Porcelain Tile Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 14, 1927. Serial No. 175,066. 5 Claims. (Cl. 72—19.)



1. A tiled wall comprising a sheet having in its face sets of continuous parallel grooves, said sets intersecting each other to define similar geometrical figures thereon, and a plurality of tiles covering said sheet and secured thereto, said tiles having marginal members extending into said grooves.

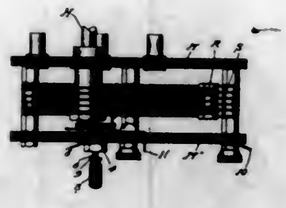
1,686,813. SOCKET SHELL. HARVEY HUBBELL, Bridgeport, Conn.; Louie E. Hubbell executrix of said Harvey Hubbell, deceased. Filed Sept. 29, 1923. Serial No. 665,621. 4 Claims. (Cl. 173—362.)



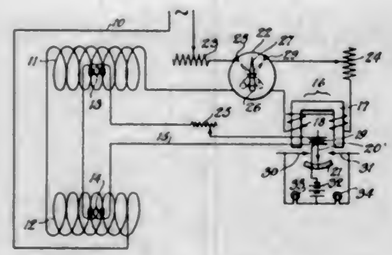
1. In a socket shell having telescoping sections, one of said sections having a plurality of grooves leading from one end thereof and openings spaced from said end at opposite sides of said section, and the other section being provided with a series of triangular teeth projecting laterally therefrom and integral therewith, said teeth adapted to enter said grooves and openings to secure the sections together the inner or transverse edges of the teeth being inclined outwardly from the free ends or points of the teeth toward the inlet end of the section to form in effect hooks to engage side walls of said openings.

1,686,814. CONDENSER. HARRY H. IDE, La Grange, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed June 7, 1924. Serial No. 718,424. 10 Claims. (Cl. 175—41.5.)

1. A device of the class described including a stator element comprising a plurality of plates, a rotor element operatively associated with said stator element, end plate members for supporting said stator and rotor elements, and adjustable disk, one of said end plate members adjustably supporting said adjustable disk in operative position relative to one of the plates of said stator element, said one plate and said adjustable disk forming a condenser of a variable capacity.



1,686,815. METHOD OF TESTING MAGNETIZABLE OBJECTS. ELMER S. IMES, Jersey City, N. J., assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y., a Corporation of New York. Filed May 26, 1925. Serial No. 32,947. 7 Claims. (Cl. 175—183.)



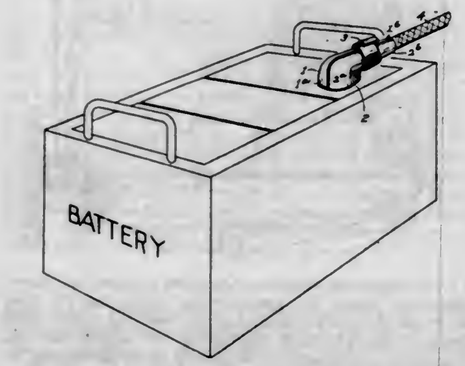
1. A method of determining one physical characteristic of a magnetizable object possessing two physical characteristics of unknown value, which consists in subjecting two standards to a varying magnetic field, said characteristics being pre-determined in each of the standards and one standard differing from the other as to the value of one of said characteristics, measuring on a dynamometer the differential energy absorbed by the two standards, adjusting the dynamometer to show no variation between the two standards, replacing one of the standards with the object to be tested, and noting the differential energy indicated by the dynamometer.

1,686,816. SCRAPER. CHRISTIAN JOHNSON, Chicago, Ill. Filed Feb. 2, 1927. Serial No. 165,304. 1 Claim. (Cl. 145—47.)

A device of the class described, comprising a scraper of opposed clamping members and a scraping blade therebetween, a threaded pin extending through the clamping members, a handle having a recess formed in one end thereof, a socket member secured in the recess and having a tapered socket in the outer end thereof, a complementary tapered member removably secured in the socket, extending therefrom, and threadedly engaging the said pin, and recess means formed in one of the clamping members engaged by the said complementary member at its larger end to retain the scraper at a fixed angle relative to the handle, and whereby downward force applied to the scraper is borne by the complementary member to relieve the said threaded pin of undue strain.

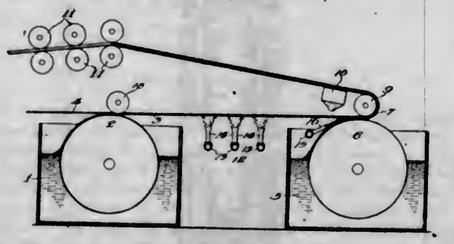


1,686,817. TERMINAL PROTECTOR FOR STORAGE BATTERIES. JARL A. JOHNSON, Taft, Calif. Filed Jan. 31, 1927. Serial No. 164,925. 2 Claims. (Cl. 173—259.)



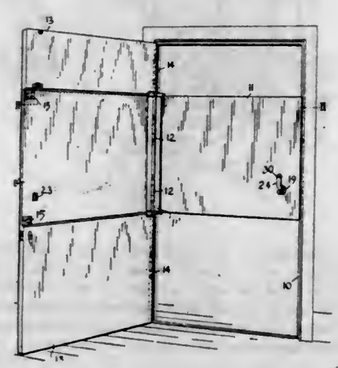
1. A battery terminal protector of the character described made in two complemental parts, each part comprising an enlarged terminal embracing part and a substantially right angular wire or cable embracing part and a clamp for binding said parts together, said complemental parts meeting along a vertical plane to adapt the said two parts to be brought together laterally of the battery terminal.

1,686,818. APPARATUS FOR MAKING PAPER. LESTER KIRSCHBRAUN, Chicago, Ill. Original application filed Nov. 4, 1921, Serial No. 512,808, Patent No. 1,526,522, dated Feb. 17, 1925. Divided and this application filed Jan. 12, 1925, Serial No. 2,039. Renewed Mar. 26, 1928. 6 Claims. (Cl. 92—41.)



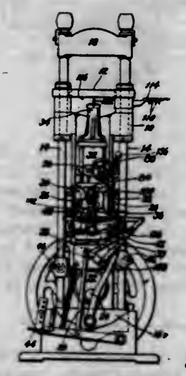
1. In an apparatus for producing a waterproof multiply fibrous sheet, the combination with spaced fibrous pulp vats, of cylinder molds adapted to be rotated therein, and adapted to have suction applied thereto to cause a layer of fibrous pulp solution to felt on the surfaces thereof, a continuous flexible web contacting and removing the felted layers from successive molds, and spraying means interposed between designated molds adapted to project waterproofing medium on the surface of predetermined fibrous plies.

1,686,819. DOOR. ALBERT KIRSCHBAUM, Newark, N. J. Filed May 26, 1927. Serial No. 194,277. 3 Claims. (Cl. 20—16.)



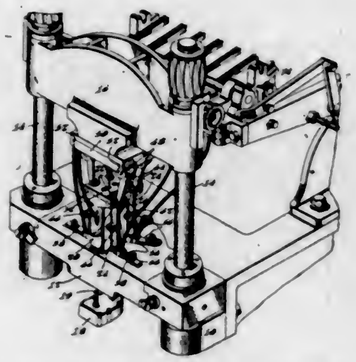
1. In combination with a door-frame, a screen door hinged to the door-frame for screening the middle portion of the frame opening, the main portion of the screen door being of approximately half of normal door thickness, and a main door for closing the upper and lower portions of the frame opening and hinged to the door frame, the middle portion of the main door being of approximately half thickness so that the screen door may be set in flush, the hinges for both doors having their axes on the same line.

1,686,820. METHOD OF AND MEANS FOR INSERTING FASTENINGS. ROBERT H. LAWSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 11, 1924. Serial No. 692,054. 39 Claims. (Cl. 1—32.)



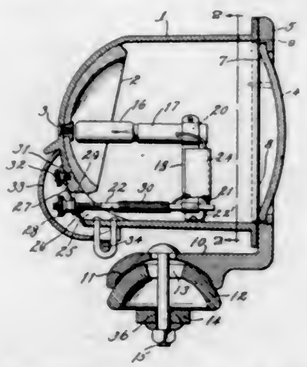
1. The method of inserting fastenings, which consists in positioning a fastening preparatory to insertion, forming the fastening while thus fixed in position to determine the direction of insertion, and effecting the insertion of the fastening from the forming position.

1,686,821. SHOE MACHINE. ROBERT H. LAWSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 5, 1924. Serial No. 718,058. 23 Claims. (Cl. 1—32.)



1. In a machine of the class described, a tool for operating upon the work, a carrier in which the tool is movable, said carrier being movable to change the relation of the tool to the work, an actuating member, and connections between the actuating member and tool to move said tool and thereby the carrier.

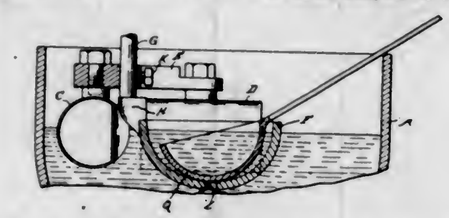
1,686,822. SIGNAL LAMP. STATES LEE LEBBY, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Aug. 30, 1923. Serial No. 660,211. 5 Claims. (Cl. 240—44.)



1. The combination with a projector casing and its light source, of means for supporting and focusing the light source comprising a standard carrying said source at its upper end, a rod on which the standard is carried, said rod having its outer end projecting through the casing, a guide bracket for said standard carried by said casing in which the rod is movably mounted, and means carried by the casing for shifting the outer end of the rod in all directions.

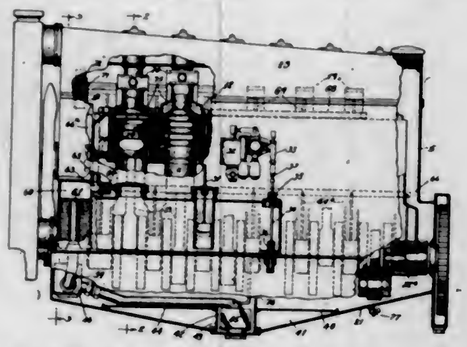
1,686,823. FLOAT-SUPPORTED MEASURING POT. JOHN LEYLAND, Detroit, Mich., assignor to Federal Mogul Corporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 30, 1927. Serial No. 243,518. 12 Claims. (Cl. 22—79.)

1. Means for effecting uniformity in the quantity of molten metal removed from a melting pot by ladling, consisting of an inferiorly apertured bowl of substantially the contour of a ladle, into which molten metal may proceed by gravity-induced flow, and means adapted to float



on the top of the contained molten mass, with which said bowl is adjustably connected at the desired relative elevation.

1,686,824. LUBRICATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. FRANK E. LONAS, New York, N. Y. Filed Sept. 26, 1925. Serial No. 58,770. 19 Claims. (Cl. 123—196.)



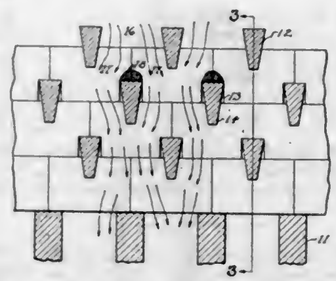
1. A lubricating system for internal combustion engines comprising means for transmitting lubricating oil from the crank case of the engine to the working parts under pressure, an auxiliary lubricating oil supply for the crank case, and means for supplying fresh lubricating oil to the crank case and directly to the oil transmitted from the crank case to the working parts.

1,686,825. ELEVATOR. HOWARD C. LISLE, Lansing, Mich., and FRANK H. LEWIS, San Jose, Calif., assignors to Bean Spray Pump Co., San Jose, Calif., a Corporation of California. Filed Apr. 27, 1927. Serial No. 186,850. 3 Claims. (Cl. 254—93.)



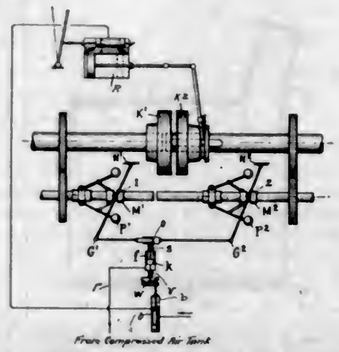
1. An elevator comprising a base; a longitudinally fixed inner member supported for rotation thereupon; a longitudinally movable tube surrounding said member and provided with a closed upper end; packing means between said member and said tube; and means for introducing fluid under pressure between the inner member and the closed upper end of said tube.

1,686,826. CHECKERWORK FOR OPEN-HEARTH AND BLAST FURNACES. FRED H. LOFTUS, Pittsburgh, Pa. Filed Feb. 8, 1927. Serial No. 166,669. 4 Claims. (Cl. 72—15.5.)



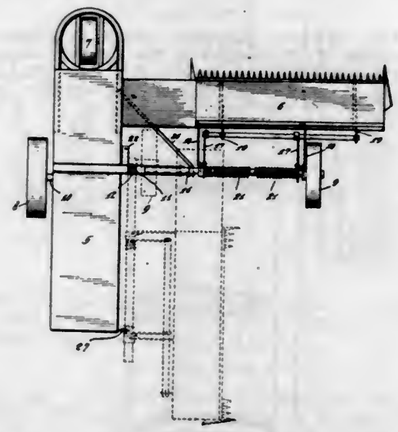
1. In a checker chamber for reverberatory furnaces, a plurality of parallel spaced vertical walls reaching across the chamber and extending from the top to the bottom thereof to form a plurality of narrow elongated wells separated one from another, and a plurality of spaced rows of super-imposed fixed heat exchangers rigidly mounted in said walls and extending across said wells, the exchangers in one row being in staggered relation to the next adjacent row forming a plurality of fixed uniform intake and discharge passages throughout said wells and adapted to afford a fixed predetermined minor resistance to the passage of the gas through the wells in one direction and upon reversal of the furnace a fixed predetermined major resistance in the opposite direction.

1,686,827. AUTOMATIC COUPLING DEVICE FOR TRANSMISSION OF POWER. GUSTAV C. MAAG, Duisburg, Germany. Filed Mar. 22, 1924, Serial No. 701,166, and in Germany Mar. 22, 1923. 8 Claims. (Cl. 192—103.)



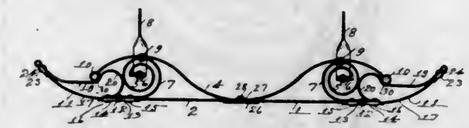
1. In an apparatus of the character described, a pair of rotatable shafts, means including a clutch for connecting said shafts in operative driving relationship, a pair of centrifugal speed responsive devices, one for each of said shafts and operatively connected each with its respective shaft, means to actuate said clutch including means controlled by said speed responsive devices for permitting operation of the clutch actuating means only when said shafts are rotating in definite predetermined speed relationship.

1,686,828. COMBINATION HARVESTER-THRASHER. WALLACE F. MACGREGOR, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed Mar. 21, 1925. Serial No. 17,385. 10 Claims. (Cl. 56—20.)



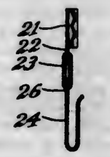
1. In a machine of the class described, a thrasher, a harvester, a vertical hinge member connected to said thrasher, a coupling mounted on said member to turn horizontally in relation thereto, a stub-axle on said coupling, a support for said harvester connected to said coupling whereby the harvester may be swung horizontally and folded alongside said thrasher, and a wheel on said support adapted to be transferred therefrom to said stub-axle for sustaining said thrasher in traveling position when said harvester has been folded alongside thereof.

1,686,829. BUMPER FOR VEHICLES. MALTE J. MALLINO, Grand Rapids, Mich. Filed Oct. 12, 1927. Serial No. 225,641. 8 Claims. (Cl. 293—55.)



1. In a bumper for vehicles: front and rear horizontal bars, one of them being resilient; coiled springs, each mounted centrally thereof on the vehicle and connected at opposite points respectively to the front bar and to the rear bar inwardly from the adjacent end thereof; extensions of the front bar horizontally swingable relatively thereto, each of said extensions yieldingly engaging in its rearward movement the adjacent curved spring.

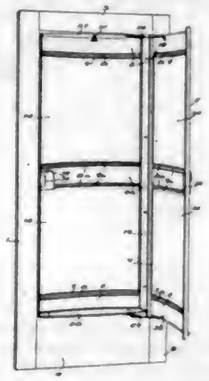
1,686,830. GARMENT SUPPORT. ULYSSES G. MASON, Birmingham, Ala. Filed Mar. 19, 1928. Serial No. 262,836. 2 Claims. (Cl. 24—81.)



1. A garment support comprising an upper clasp member formed of sheet metal having one side thereof bent around against the front portion and having said side

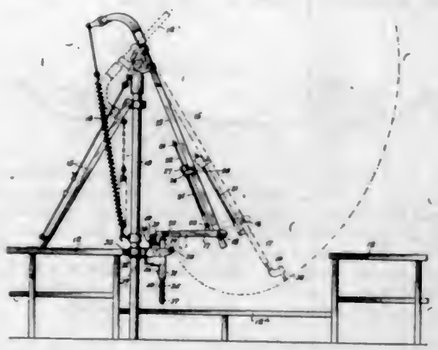
corrugated the better to grip an upper garment, the front side of said clasp member being formed to have a monogram applied thereto, and a lower hook member formed of sheet metal bent rearwardly and upwardly to engage a supporting element on a lower garment.

1,686,831. SERVICE CABINET. FRANK J. MATCHETTE, New York, N. Y., assignor to The Servidor Company, New York, N. Y., a Corporation of New York. Filed May 13, 1927. Serial No. 191,040. 18 Claims. (Cl. 189—46.)



1. In a door construction, spaced reinforcing members disposed transversely of the door and arched in the direction of their length, and a main door plate shaped about the convex faces of the reinforcing members and secured thereto.

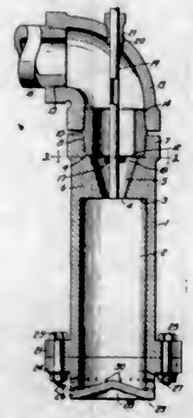
1,686,832. STARTING GATE. PHILIP MCGINNIS, London, Ontario, Canada. Filed Sept. 27, 1927. Serial No. 222,242. 9 Claims. (Cl. 39—24.)



1. In a starting-gate, the combination of a barrier adapted to occupy an operative, restraining position, primary means whereby said barrier is movable to an inoperative position, and auxiliary means movably connected with said primary means whereby said barrier is supported in an operative position and is independently shifted downwardly from its operative position prior to its being carried by said primary means to said inoperative position.

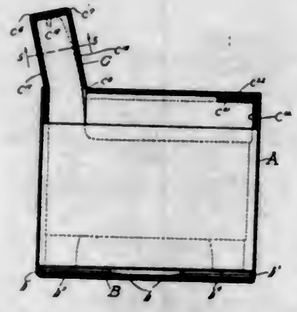
8. In a starting-gate, the combination of a barrier adapted to occupy an operative, restraining position, primary means whereby said barrier is movable to an inoperative position, and auxiliary means movably connected with said primary means whereby said barrier is initially shifted downwardly from its operative position prior to its being shifted to said inoperative position, locking mechanism cooperating with said auxiliary means to lock said gate in its operative position, means for tripping said locking mechanism to release said gate, and means whereby unintentional disengagement of said auxiliary means from said locking mechanism is prevented.

1,686,833. FUEL-OIL BURNER. FORD H. MOORE, Kansas City, Mo. Filed Feb. 24, 1927. Serial No. 170,500. 4 Claims. (Cl. 158—76.)



1. An oil burner comprising a tubular body portion having a mixing chamber provided with a convex end wall, an air conduit for the mixing chamber having a venturi-shaped outlet, a fuel inlet opening into the mixing chamber at the mouth of the venturi-shaped outlet, and a plurality of outlet ports peripheral of the mixing chamber and arranged in spaced rings.

1,686,834. SHIPPING CARTON. ORVA O. NICKERSON, Fort Wayne, Ind., assignor to Fort Wayne Corrugated Paper Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Feb. 20, 1925. Serial No. 10,531. 3 Claims. (Cl. 206—1.)



3. For use in constructing a shipping carton for a piece of furniture of the arm chair type, a combination of three blanks made of double faced corrugated paper; the first creased and slotted to form the sides and bottom, the second creased so as to be folded flat upon itself at both ends and then be placed upon the bottom within the open top box formed from the first blank, the third creased across from both pairs of opposite sides and slotted in toward the middle from one pair of opposite sides so as to be adapted to be folded upon itself in such a manner as to lie flat and cover the edges and top of the back and arms of the article packed with a plurality of thicknesses.

1,686,835. PROCESS FOR PRODUCING POTASSIUM SALTS AND BY-PRODUCTS. ROBERT D. PIKE, Piedmont, and ROSS CUMMINGS, Berkeley, Calif.; said Cummings assignor to said Pike. Filed May 25, 1927. Serial No. 194,226. 6 Claims. (Cl. 23—41.)

1. The process of extraction of potash salts from wyomingite and the like, which consists in fine grinding and treating the pulp under heat and pressure with a solution of common salt containing not to exceed 1% of bicarbonate of sodium.

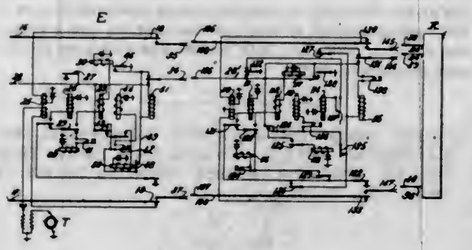
1,686,836. TREATING AND WETTING OUT FIBROUS MATERIAL. RAINER HERMANN POTT, Dresden, Germany, assignor to Chemische Fabrik Pott & Co., Dresden-N., Germany. Original application filed July 26, 1924, Serial No. 728,494, and in Germany July 10, 1923. Divided and this application filed Sept. 23, 1925. Serial No. 58,184. 4 Claims. (Cl. 8—12.)

1. The process of treating fibrous materials, which comprises adding sulphonic acid salts of substituted aromatic polynuclear hydrocarbons to an acid fiber treating bath.

1,686,837. PROCESS OF CARBONIZING WOOLEN FIBERS. RAINER HERMANN POTT, Dresden, Germany, assignor to Chemische Fabrik Pott & Co., Dresden-N., Germany. Filed July 26, 1924, Serial No. 728,494, and in Germany July 10, 1923. 6 Claims. (Cl. 8—12.)

1. The process of treating fibrous materials, which comprises subjecting said material to treatment in an acid bath in the presence of sulfonic acids of substituted aromatic polynuclear hydrocarbons.

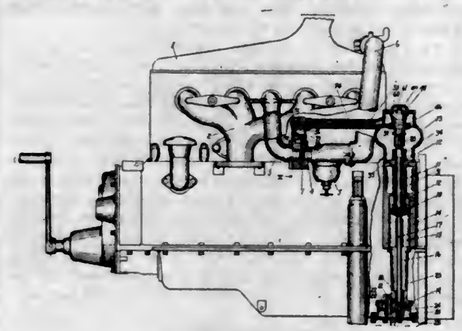
1,686,838. AUTOMATIC TELEPHONE SYSTEM. ARTHUR J. RAY, Cuba, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 8, 1926, Serial No. 86,754. Renewed Sept. 29, 1927. 18 Claims. (Cl. 179—17.)



1. In a telephone system, a first automatic switch, a second automatic switch, a third switch, means for extending a connection through the first and second switches to said third switch, means in said third switch operative responsive to the establishment of said connection for maintaining said three switches operated, means for releasing said third switch, means for releasing said second switch responsive to the release of said third switch, and means in said second switch for maintaining said first switch operated independent of said third switch.

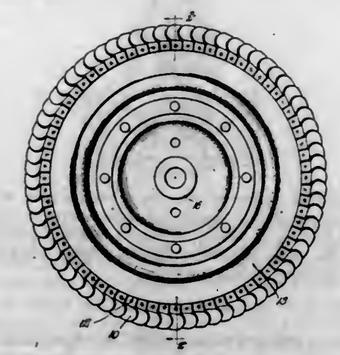
1,686,839. ENGINE GOVERNOR. HARRY E. RHOADS, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 21, 1919. Serial No. 284,127. 6 Claims. (Cl. 184—6.)

1. In an internal combustion engine, a casing, a hollow shaft mounted therein having an engine governor at the upper end thereof, means for driving said shaft, an oil pump detachably connected to said casing, and a hollow pump shaft in communication with the outlet of said pump, said shafts having interengaging portions at their



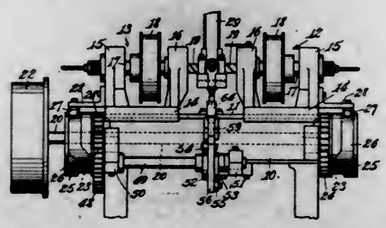
adjacent ends whereby, when said pump is in attached position, it is adapted to be driven by said first shaft and oil may be supplied through said shafts.

1,686,840. TURBINE ROTOR AND METHOD OF FORMING THE SAME. WILLIAM EDWARD RICHARD, Evansville, Ind., assignor to Sunbeam Electric Manufacturing Company, Evansville, Ind., a Corporation of Indiana. Filed June 25, 1924. Serial No. 722,222. 6 Claims. (Cl. 253—39.)



1. A turbine wheel comprising a central disk and individual buckets welded thereto, said buckets being integrally formed and having a weldable foot bent therefrom whereby they are individually secured to the face of said disk.

1,686,841. MACHINE FOR COUNTERSINKING PIPE COUPLINGS. ALFRED BRIESE, Wheeling, and RUSSELL CALLOW, Boggs Run, W. Va. Filed Mar. 18, 1926. Serial No. 95,629. 5 Claims. (Cl. 77—21.)



1. In a machine of the kind described, movable cutter heads, a holder for work pieces, means for moving said cutter heads toward and away from said holder, means for

actuating said holder in timed relation to the movement of the cutter heads, pivoted centering members for positioning a work piece in the holder, and means for withdrawing said positioning members from operative position in timed relation to the movements of the cutter heads.

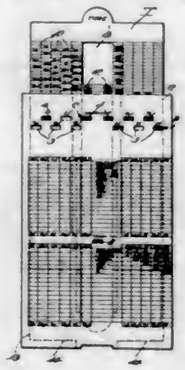
5. In a machine of the kind described, a frame, cutter heads mounted for movement on said frame, a work piece delivery chute mounted on the frame, a holder having a movable member mounted for sliding movement under said chute, said frame having an opening under the holder and offset from the chute, means for moving said cutter heads, and means for moving said holder member to secure a work piece from the delivery chute in the holder while the cutter heads are in cutting position and for releasing the work piece from the holder to permit the same to drop through said opening when the cutter heads are moved to inoperative position, the last mentioned cams including spring advanced fingers for engaging opposite ends of the work piece, and a member operable to retract said fingers.

1,686,842. ELECTRICAL CONNECTER. FRANCIS J. BULLIVANT, St. Louis, Mo., assignor to Valley Electric Company, St. Louis, Mo., a Corporation of Delaware. Filed Dec. 17, 1924. Serial No. 756,598. 1 Claim. (Cl. 173—273.)



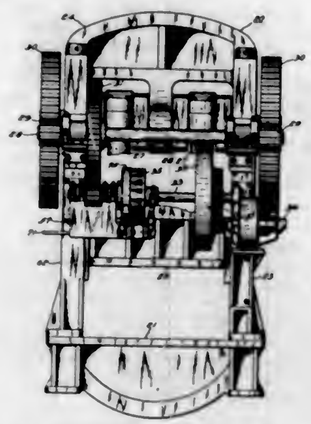
An electrical connecter clip comprising a pair of spring-closed jaws adapted to engage a terminal with a biting contact and having a closely adhering plating of cadmium covering the same and including the biting contacts so as to preserve their biting action.

1,686,843. HANDICAPPING DEVICE. WALTER B. BURKE, Chicago, Ill., assignor to The Domino System Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1925, Serial No. 23,615. Renewed Jan. 17, 1928. 4 Claims. (Cl. 235—85.)



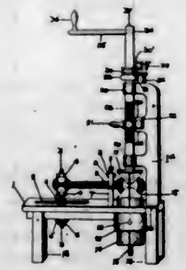
1. A handicapping device comprising a time slide having time figures, a track slide carried by said time slide, said track slide being adjustable with respect to said time slide and thereafter movable bodily with the latter, handicap figures on said track slide, a wall in front of said slides having distance openings for disclosing the time figures and a handicap opening for disclosing the handicap figures, and indicating means permitting setting of the track slide with respect to the time slide.

1,686,844. STAMPING PRESS. ARTHUR A. BYERLEIN, Detroit, Mich. Filed July 20, 1925. Serial No. 44,793. 18 Claims. (Cl. 113—38.)



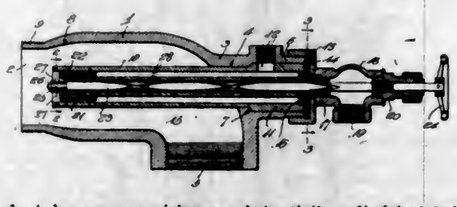
1. In a press, comprising a press frame having a pair of sides for guiding a plunger, and a plunger mounted in said frame; means for actuating said plunger, said means comprising a power shaft journaled for rotation at one side of the press frame, said power shaft having a bearing at its inner end, a bearing carried at the other side of the press frame, a second power shaft in extension of the first mentioned power shaft journaled for rotation in the bearing at the inner end of first-mentioned power shaft and in the bearing carried at said other side of the press frame, and a clutch carried by said power shafts adapted to connect said power shafts.

1,686,845. COMBINED CENTERING, BABBITTING, AND MACHINING DEVICE. CHARLES HALL CRONE, Titusville, Pa. Filed Sept. 30, 1924. Serial No. 740,763. 1 Claim. (Cl. 77—62.)



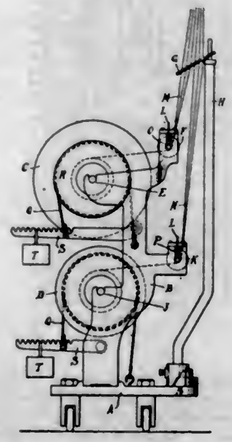
A centering, babbitting and boring machine for connecting rods, comprising a work table, adjustable means carried by said table for supporting a connecting rod adjacent the ends thereof, a tool axially adjustable and reversibly mounted in a guide in said table adjacent one of said supporting means, said tool having a conical bearing centering projection at one end and means at the opposite end for detachably securing a babbitting mold, an arm carried by said table having spaced bearings aligned with the axis of said reversible tool, a threaded tool spindle adjustably mounted in said bearings, and a split nut pivotally connected with said arm between said bearings and adapted to engage the threads of said tool spindle.

1,686,846. HYDROCARBON BURNER. CHARLES O. EVERHART, Girard, Ohio. Filed Apr. 4, 1928. Serial No. 267,304. 2 Claims. (Cl. 158—76.)



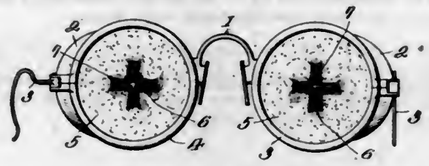
1. A burner comprising a substantially cylindrical hollow body open at its rear end, closed at its front end and provided with a lateral air inlet near said front end, said body being rearwardly tapered internally near its rear end but terminating in a cylindrical interior at said rear end, a high pressure fluid feeding tube disposed axially within said body and projecting from the closed front end thereof to a transverse plane substantially at the rear end of said tapered internal portion of the body, a fuel feed tube disposed axially within said high pressure fluid feed tube and having an enlarged tubular spray tip on its rear end spaced a slight distance forwardly from the rear end of said high pressure fluid tube, both of said tubes being open at their rear ends and said tip being internally flared at said rear end, and a stem passing longitudinally through said fuel feed tube, the rear end of said stem having a frusto-conical peripherally grooved spreader whose smaller end portions is disposed within said flared portion of said tip.

1,686,847. MILANESE MACHINE. SAMUEL STEWART FLETCHER, Nottingham, England. Filed Mar. 26, 1927, Serial No. 178,704, and in Great Britain Mar. 29, 1926. 5 Claims. (Cl. 66—81.)



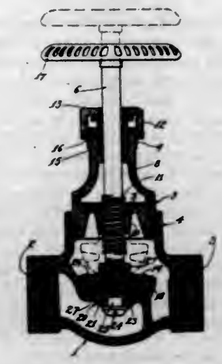
5. In a Milanese machine, a series of carriages operatively connected together for motion in one direction, each carriage being provided with a plurality of warp-beams which are moved with it, a thread sley-plate supported by each carriage, and a plurality of spring-pressed rollers supported by each carriage and operating to guide the warp-threads to the said sley-plate.

1,686,848. EYE PROTECTOR. HERBERT C. FOWLER, Columbus, Ohio. Filed Aug. 5, 1927. Serial No. 210,925. 4 Claims. (Cl. 2—14.)



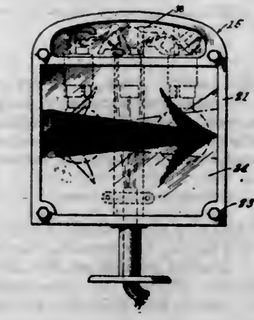
1. An eye guard consisting of an opaque impervious disk having a cruciform offset at its center, a very narrow slit being formed through the offset, longitudinally of all arms thereof.

1,686,849. FLUID VALVE. ALOYSIUS M. FRAUENHEIM, Pittsburgh, Pa. Filed Oct. 15, 1927. Serial No. 226,273. 8 Claims. (Cl. 251—27.)



5. In a valve of the character described, a composite valve-disc having the shape of a spherical zone and a spherically shaped seat therefor, said composite disc comprising two rigid disc-members and an intermediate resilient disc-member severally adapted for sealing engagement with the seat when the valve is shut, and adjustable means for compressing the resilient disc-member between said rigid disc-members.

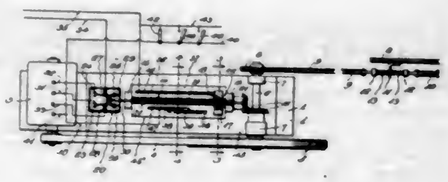
1,686,850. TRAFFIC SIGNAL. RAINSFORD FRENCH, Washington, D. C. Filed Sept. 27, 1924. Serial No. 740,212. 15 Claims. (Cl. 177—329.)



1. In a traffic signal, a light transmitting screen, a stencil back of said screen extending away from a point closely adjacent the back of the screen and bearing the

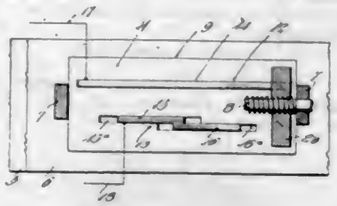
outline of a pointer with the tip portion of the same closest the screen and a light source behind said stencil in position to cast its light through the stencil onto the screen and to accentuate the tip of the pointer presented by that part of the stencil which is closest to the screen.

1,686,851. DOOR-OPERATING MECHANISM. CHARLES W. GORMAN, Muskogee, Okla. Filed Apr. 2, 1925. Serial No. 20,255. 1 Claim. (Cl. 172—240.)



A mechanism of the class described comprising a base, a reversible electric motor thereon, a screw rotatably mounted on said base and operatively connected with said motor, a reversing switch for the motor mounted on the base, an operating member for said reversing switch having trips at points spaced apart along said screw, and a non-rotatable body engaged with said screw, said body having a portion received between said strips to engage the same and shift said operating member to actuate the reversing switch; together with additional current controlling means for the motor comprising contact trackage mounted on the base parallel with the screw, and a traveling contact engaging said trackage and carried by said body, said traveling contact being adapted to move from operative engagement with said trackage to break the motor circuit, said contact trackage comprising a contact strip and a track parallel therewith formed of overlapping longitudinal adjustable strips.

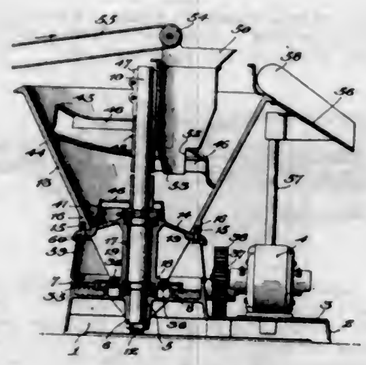
1,686,852. ELECTRIC SWITCH. CHARLES W. GORMAN, Muskogee, Okla. Original application filed Apr. 2, 1925, Serial No. 20,255. Divided and this application filed June 30, 1927. Serial No. 202,605. 3 Claims (Cl. 200—168.)



1. In an electrical switch, a base, a contact strip thereon, a track on the base parallel with said strip, said track being formed of overlapping longitudinally-adjustable strips whose overlapping portions contact with each other, and a traveling contact shoe adapted to bridge between said strip and said tracks.

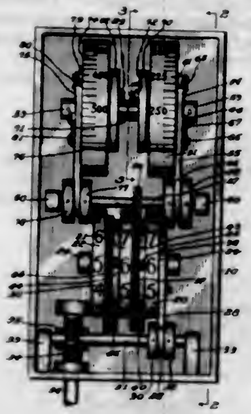
1,686,853. APPARATUS FOR ROUNDING UP LUMPS OF PLASTIC MATERIAL. HERBERT H. HACKSTEDDE, Cincinnati, Ohio. Original application filed July 21, 1921, Serial No. 486,510. Divided and this application filed Dec. 6, 1922. Serial No. 605,207. 15 Claims. (Cl. 107—9.)

10. In a machine of the class described, the combination of a base having an opening therethrough and a boss depending from the base at the opening, a post rising through the boss and provided with an annular shoulder adjacent the base, a rotatable bowl concentric with the base, a sleeve depending from the bottom of the bowl and counterbored at its top and bottom, anti-friction bearings between the post and the sleeve and located in the respective counterbores,



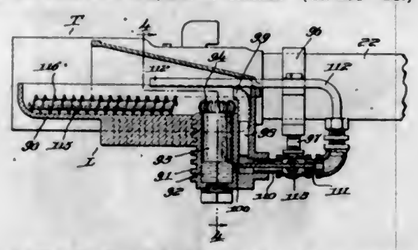
a stationary member of the lower bearing lying between the shoulder of the post and the base, and means cooperating with the bottom of the post and the bottom of the boss to impinge the shoulder against said stationary bearing member to secure the post in place.

1,686,854. ODOMETER. JOHN HAYS HAMMOND, JR., Gloucester, Mass., and ALBERT D. TRENOR, New York, N. Y.; said Trenor assignor to said Hammond. Filed July 13, 1921, Serial No. 484,379. Renewed Apr. 3, 1926. 15 Claims. (Cl. 116—115.)



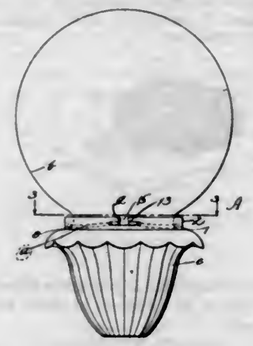
4. In an indicating device for motor vehicles, the combination of an odometer, a movable indicator, a step by step mechanism including a ratchet wheel having a predetermined number of its teeth cut away arranged to operate said movable indicator, means operated by said odometer for intermittently actuating said step by step mechanism, a plurality of indicia showing the parts of the vehicle requiring lubrication located in operative relation to said movable indicator, means for releasing said step by step mechanism, and means automatically operative upon the release of said step by step mechanism for resetting said movable indicator in its initial position.

1,686,855. PILOT FOR LIQUID-FUEL-BURNING APPARATUS. SINIUS M. HANSEN, Lynn, Mass., assignor, by mesne assignments, to A T Oil Burner Co., Lynn, Mass., a Corporation of Massachusetts. Filed July 19, 1926. Serial No. 123,491. 7 Claims. (Cl. 158—28.)



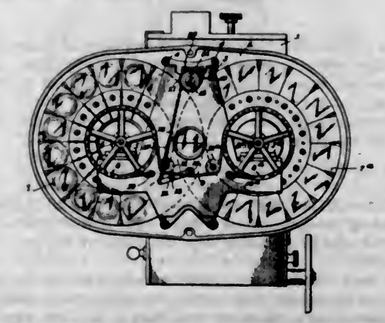
1. A pilot for liquid fuel burning apparatus comprising a main pilot; means to feed fuel to said main pilot; means to inject a charge of fuel into the flame of said main pilot when said apparatus is to be put into operation; and an auxiliary pilot arranged to provide an elongated flame and to be ignited upon the injection of fuel into said main pilot.

1,686,856. FIXTURE. WILLIAM HARRISON and EARL E. LUNCKFORD, San Bernardino, Calif. Filed Mar. 2, 1925. Serial No. 12,764. 1 Claim. (Cl. 240—134.)



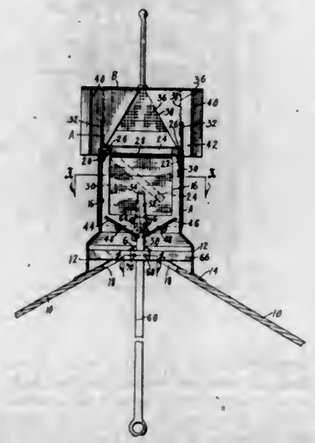
A device adapted to hold a globe having a curved flange member and a base in working relation, including a ring having inherent spring-like quality, said ring being provided with two wings forming the terminus for said ring, said ring diametrically opposite the said wings being formed with a notch and diametric side portions of said ring being curved longitudinally and vertically.

1,686,857. ANGULAR-VELOCITY STABILIZER FOR ROTATABLE GEAR-DRIVEN SHAFTS. ARTHUR J. HOLMAN, Boston, Mass. Filed Aug. 18, 1927. Serial No. 213,793. 3 Claims. (Cl. 188—83.)



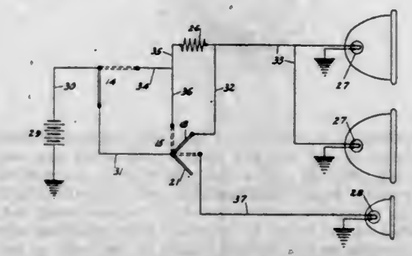
1. In a device of the character specified the combination of a pair of gear driven rotatable shafts arranged to rotate in opposite directions, brake-wheels fast mounted on said shafts, a belt arranged to contact with equal arcs on said brake-wheels, and means for varying the tension of said belt.

1,686,858. VENTILATOR FOR FARM BUILDINGS. CLARENCE A. HOSIER, Rolfe, Iowa. Filed May 2, 1927. Serial No. 188,181. 4 Claims. (Cl. 98—64.)



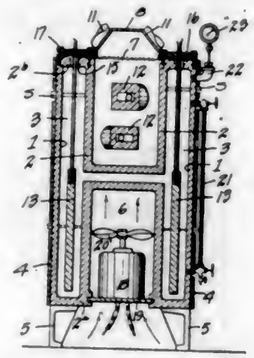
1. A ventilator comprising a hollow body having openings in its side walls and fabric covers therefor, a fabric partition at the top of said body, and a roof for said ventilator, said ventilator being provided with openings at the upper part of its side walls between said walls and the roof, said roof having baffle plates extending from its upper portion on its under side downwardly to the tops of said first openings in the side walls.

1,686,859. LIGHTING SYSTEM FOR AUTOMOBILES. EDWARD E. HUNTINGTON, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 17, 1923. Serial No. 681,165. 5 Claims. (Cl. 171—97.)



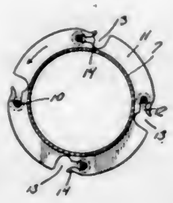
1. In a lighting system for automobiles, an electric current supply source, headlights, an auxiliary light, a primary switch, a secondary switch, electrical means for producing either bright or dim illumination in said headlights, conductors adapted to connect said electrical means and said auxiliary light with said current supply source through said switches, the secondary switch having two operating positions in one of which it is adapted to effect the dimming of the headlights and the turning on of the auxiliary light, and in the other of which it is adapted to turn off the auxiliary light and produce bright illumination of the headlights, the primary switch being arranged to effect the bright or dim illumination of the headlights when the secondary switch is in the latter position, and to effect dim illumination only when the secondary switch is in the former position.

1,686,860. ELECTRICAL HEATER. JAMES HANSON HUSSEY, Spokane, Wash., assignor of one-half to Joshua Hubbs, Spokane, Wash. Filed Sept. 13, 1927. Serial No. 219,104. 4 Claims. (Cl. 219—42.)



4. The combination in a heater with a pair of spaced walls forming an annular water chamber and an interior air chamber, and water tubes in said air chamber connected with the water chamber, of an electric heating element in the water chamber, a motor and impeller for air currents at the lower end of the air chamber, a dome at the upper end of the air chamber, and hot air flues connected to said dome.

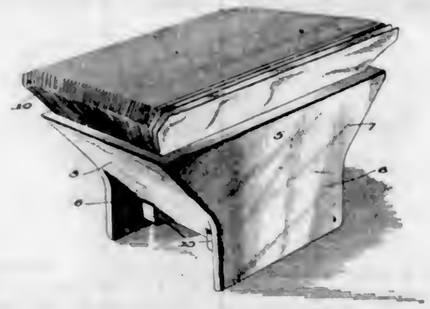
1,686,861. BENDIX HOUSING. LAWRENCE M. KESLER, Independence, Kans. Filed May 10, 1927. Serial No. 190,235. 2 Claims. (Cl. 74—56.)



1. A Bendix cap comprising a one-piece elongated tubular body closed at one end and open at the other end, said body being provided on its open end with an integral external annular flange formed with spaced circumferentially extending elongated slots enlarged at corresponding ends, and means on the flange to cooperate with attaching bolts when engaged in the narrower ends of the slots to prevent accidental turning of the cap.

1,686,862. NAPKIN PACKAGE. JAMES W. KING, Saugerties, N. Y., assignor to The Tissue Company, Saugerties, N. Y., a Corporation of New York. Filed Nov. 19, 1924. Serial No. 750,861. 1 Claim. (Cl. 211—50.)

As an article of manufacture a fixture for dispensing triangularly folded napkins and comprising a molded body having side and end walls, the end walls sloping inwardly and downwardly and intersecting at their lower ends to support the side edges of triangular folded napkins to dispose the upper portions thereof above the tops of said side walls whereby the napkins can be readily grasped and removed, the side walls following the lines of said end walls from the upper edges of the latter a substantial distance and then flaring outwardly to define supporting flanges, and adjacent side and end walls being



cross-sectionally thickened at alined points adjacent the intersection thereof whereby to strengthen and reinforce the molded body at the point of greatest strain.

1,686,863. SCOURING DEVICE. RUSSELL B. KINGMAN, Orange, N. J., assignor, by mesne assignments, to Metal Textile Corporation, West Orange, N. J., a Corporation of Rhode Island. Filed May 29, 1924. Serial No. 716,609. 1 Claim. (Cl. 15—209.)



A scouring pad comprising a compact resilient spongiform abrasive mass formed of a rope of abrasive metallic fabric knotted onto itself.

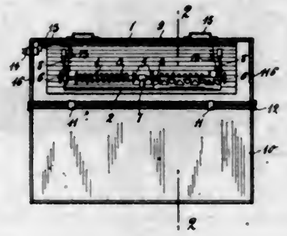
1,686,864. SCOURING-SOAP CAKE. RUSSELL B. KINGMAN, Orange, N. J., assignor to Metal Textile Corporation, a Corporation of Rhode Island. Filed Oct. 8, 1925. Serial No. 61,224. 2 Claims. (Cl. 87—23.)



1. An article for scouring and cleansing uses comprising an abrasive scouring element consisting of a resilient loosely compacted mass of comparatively open mesh metallic fabric material to form a foraminous body, and a hard soap impregnating said body and molded about the same to fill the interstices thereof.

1,686,865. ELECTRIC-HEAT APPLICATOR. ALFRED KLOTZ, Munich, Germany. Filed Feb. 7, 1927, Serial No. 166,323, and in Germany Sept. 12, 1925. 3 Claims. (Cl. 174—177.)

1. A heat applicator of the character set forth, comprising an elongated downwardly deflecting main reflector, an insulating case therefor open below, bracket members convergingly extending from said reflector, an elongated upwardly deflecting secondary reflector of less width than the first said reflector adjustably mounted on said bracket members, an elongated heat element mounted on said bracket members intermediate said two reflectors in their

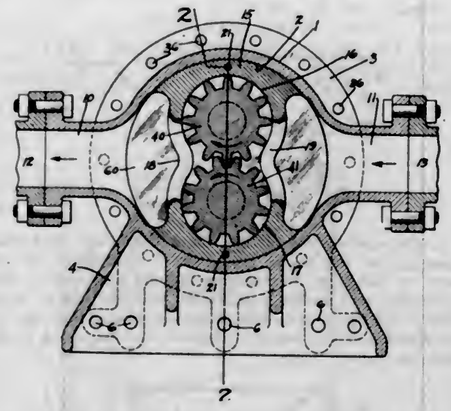


coincident focal planes, side panels hingedly secured to the two longitudinal edges of said case, and means for maintaining the side panels in their relatively adjusted positions.

1,686,866. PROCESS FOR OBTAINING ALKALOIDS. GEORG WILHELM FRIEDRICH FRANZ KNOTH, Hamburg, Germany. Filed Nov. 17, 1927, Serial No. 234,026, and in Germany Oct. 11, 1926. 3 Claims. (Cl. 260—25.)

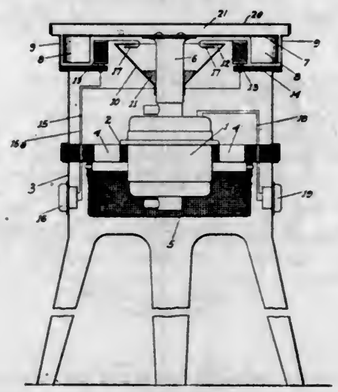
1. A process of obtaining alkaloids which are volatile with water vapors characterized in stirring the finely divided plant material containing alkaloid with sufficient aqueous alkaline liquid to form a thin liquid pulp, introducing said pulp at the top of a column apparatus and leading steam in counter-current against the downwardly flowing pulp.

1,686,867. GEAR PUMP. LEWIS O. KUHN, Minneapolis, Minn. Filed Nov. 8, 1926. Serial No. 147,046. 14 Claims. (Cl. 103—126.)



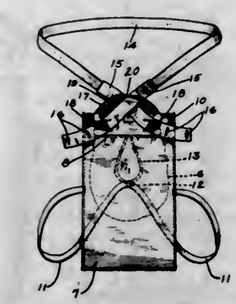
1. A device of the class described comprising a pump base having a main bore, and inlet and outlet conduits communicating with the bore, said conduits being horizontally and diametrically related, a liner element as a casting providing a twin-gear chamber, the opposite vertical walls of said chamber, being vertically slotted to provide girdlike intake and discharge orifices arranged for communication with respective conduits, and meshed gears within said chamber, each gear having shafts axially aligned at opposite sides and journaled in said base and bearing plates closing the bore and enclosing the liner, and receiving the shafts and dowels connecting said bearing plates with said liner to permit removal of the bearing plates in an axial direction.

1,686,868. ELECTRIC HEATER. HUGH GRAHAM LANDIS, San Francisco, Calif. Filed Nov. 2, 1925. Serial No. 66,212. 8 Claims. (Cl. 219—42.)



6. An electric heater comprising a vertically disposed motor, a driven spindle projecting upwardly therefrom, a horizontal plate supported by the spindle at the top, vanes depending from the plate to form a multivane centrifugal fan, electric heating elements arranged under the plate inwardly of the vanes, and a continuous deflector member extending upwardly and outwardly about the spindle and under the plate, and inwardly of the elements.

1,686,869. SUSPENSORY. ADDISON LEWIS, Minneapolis, Minn. Filed Jan. 10, 1927. Serial No. 160,105. 7 Claims. (Cl. 128—158.)

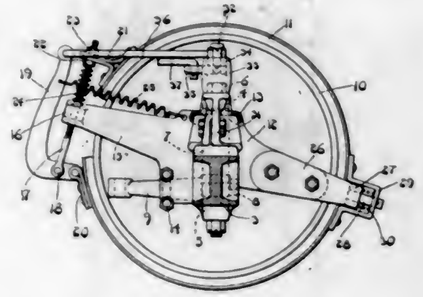


1. A suspensory, comprising in combination, an apron having slots therein, a pouch secured to said apron, a waistband for supporting the apron and pouch upon the body, and a one-piece sheet like member for detachably connecting the apron and pouch with the waistband, said member comprising oppositely extending tongues engageable with the slots in said apron to detachably secure the latter thereto.

1,686,870. VEHICLE BRAKE. RALEIGH V. LIPE, Cincinnati, Ohio. Filed Mar. 5, 1926. Serial No. 92,568. 1 Claim. (Cl. 188—194.)

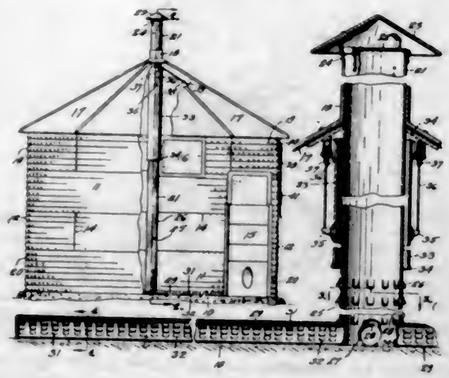
A front wheel brake attachment for motor vehicles, comprising a brake drum attached to the wheel, a frame attached to the wheel steering knuckle, integral with said

frame a rearwardly extending arm with a bolt receiving lug at its upper end and a forwardly extending arm with a lug and a pin therein at its lower end, a brake band mounted in drum encircling position and a bracket attached to the middle of the brake band, an aperture in the bracket's top to take on and through itself the aforesaid pin, a lever hingedly mounted to one free end of the brake band and an upwardly extending bolt pivoted to the lever adjacent its hinge, a bolt receiving bracket



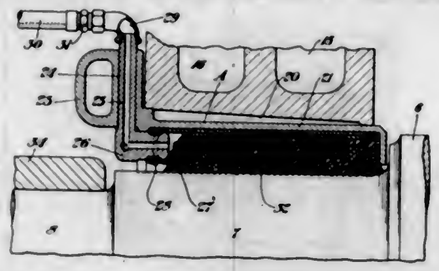
mounted on the remaining free end of the brake band and the bolt end attached thereto, an expansion spring encircling the bolt between the bracket and first mentioned extended arm for brake band easing off the drum, a pin bearing bracket attached to the axle portion of the motor vehicle and an arm with lugs mounting the pin, the outer of said lugs being linked to the lever and axially aligned with the king bolt of the steering knuckle, operable means for controlling the brake being attached to the inner of said lugs.

1,686,871. COMBINATION CORNCRIB AND GRAIN BIN. GEORGE A. MEEK, Leon, Iowa. Filed Oct. 27, 1924. Serial No. 746,184. 2 Claims. (Cl. 98—55.)



1. In a device of the class described, a grain bin, a ventilating pipe extending from above the bin downwardly to the lower portion thereof, ventilation tubes detachably connected with the lower part of said first pipe said tubes being loosely connected with the first pipe whereby their outer ends may be raised to permit their removal for the use of the bin floor, said tubes extending radially therefrom, the outer ends of said tubes terminating short of the wall of said grain bin, and ventilating holes in said tubes, said ventilating holes having tongues extending outwardly and downwardly from the upper sides thereof.

1,686,872. LUBRICATOR. LEWIS H. MILLER, Cleveland, Ohio. Filed Nov. 15, 1926. Serial No. 148,494. 4 Claims. (Cl. 308—122.)

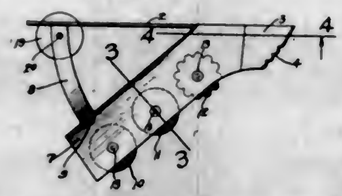


2. A lubricator for lubricating roll necks, journals and other bearing surfaces, comprising a hollow rigid body portion having one open side and adapted to be filled with a quantity of lubricant, said body being adapted to be mounted adjacent the bearing surface to be lubricated and with its open side toward said surface, and a normally collapsed, resilient, flexible fluid-tight pouch mounted between said body and said lubricant and adapted to be expanded by the admission of fluid under pressure to force said lubricant out of said body under constant pressure against the surface to be lubricated.

1,686,873. PROCESS OF MAKING OXY-COMPOUNDS OF PHOSPHORUS. CLAUDE G. MINER, Berkeley, Calif., assignor to Phosphorus Hydrogen Company, New York, N. Y., a Corporation of Maine. Filed Oct. 27, 1923. Serial No. 671,242. 5 Claims. (Cl. 23—165.)

1. Process of producing an oxy-compound of phosphorus, comprising reacting with water upon phosphorus in presence of an alkali metal which is intermixed with the phosphorus in the form of a condensate.

1,686,874. PLOW. ANDREW S. NELSON, Maple Plain, Minn. Filed Aug. 9, 1926. Serial No. 128,177. 10 Claims. (Cl. 97—129.)

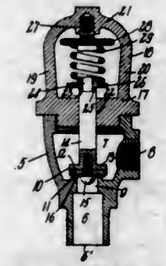


1. The combination with a plow moldboard, of a disk mounted on the under side thereof rearwardly of the point of the plow, and secured directly and only to the moldboard, and having a peripheral edge adapted to sever alfalfa and other roots and projecting beyond the edge of the moldboard, the rotative plane of the disk being at an angle to the horizontal.

1,686,875. SPRING-PRESSURE RELIEF VALVE. IRA I. NELSON, Boston, and CHETWOOD SMITH, Worcester, Mass.; said Smith assignor to said Nelson. Filed Apr. 28, 1927. Serial No. 187,378. 4 Claims. (Cl. 137—53.)

1. A pressure relief valve having, in combination, a casing provided with an inner and an outer chamber, with a fluid inlet entering the inner chamber and a fluid discharge outlet from the outer chamber, a movable valve member between said chambers adapted to be operated by excess pressure in said inner chamber to open a passage provided between said chambers, a valve stem on said

movable valve member projecting through the top of the casing, a spring outside the casing connected to the valve stem, and means to adjust the pressure of said spring to

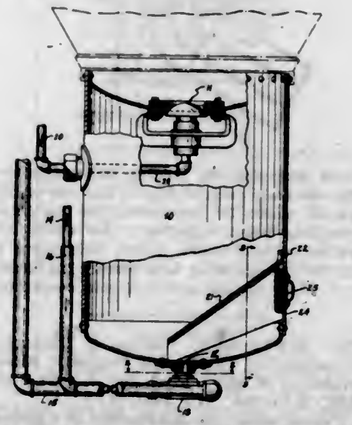


a predetermined amount, and said means being adapted to give an audible signal when the maximum limit of pressure adjustment is reached.

1,686,876. METHOD OF MANUFACTURING MAGNESITE BRICK. BERRY MARVEL O'HARRA, Westfield, and EDGAR A. SLAGLE, Trenton, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 17, 1926. Serial No. 136,203. 4 Claims. (Cl. 25—156.)

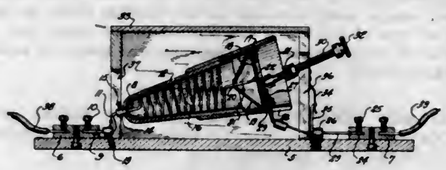
1. Process of manufacturing magnesite brick which consists in crushing calcined magnesite into small particles, mixing with said particles water containing magnesium chloride in amount equivalent to 5 to 10 per cent of the calcined magnesite, adding to said mixture an aqueous solution of sodium hydroxide or ammonium hydroxide in amount approximately equivalent to the magnesium chloride, thereby to form magnesium hydroxide in contact with the particles of magnesite, compressing the mixture into bricks, burning the bricks, whereby the magnesium hydroxide is converted to magnesium oxide, and continuing the burning at a higher temperature to convert the magnesium oxide into periclase.

1,686,877. ABRASIVE-SUPPLY TANK. LOUIS D. PEIK, Mishawaka, Ind., assignor to American Foundry Equipment Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 21, 1926. Serial No. 136,781. 4 Claims. (Cl. 51—12.)



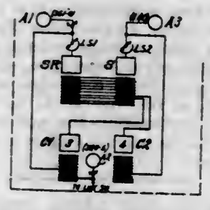
3. A sand blast tank including an outlet in the lower portion thereof, a port in the wall of said tank, and a shield attached to said wall and surrounding said port, said shield being extended to overlie said outlet.

1,686,878. INTERFERENCE AND STATIC ELIMINATOR. EARL C. RAASCH, Waupun, Wis. Filed Mar. 30, 1927. Serial No. 179,512. 4 Claims. (Cl. 250—20.)



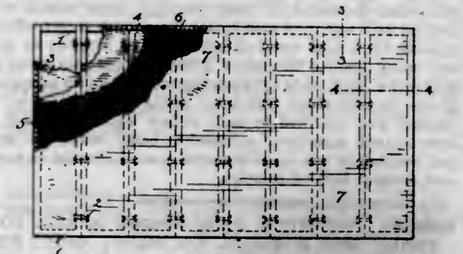
1. The combination with a radio receiver including an aerial circuit, of an interference eliminating device interposed in said circuit and comprising in series a choke member and a condenser member, a conical insulating housing enclosing said members, and a condenser adjusting member projecting from the conical housing.

1,686,879. AUTOMATIC TELEPHONE SYSTEM. NORMAN H. SAUNDERS, Homewood, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Mar. 30, 1927. Serial No. 179,443. 13 Claims. (Cl. 179—17.)



1. In an automatic telephone system, a telephone exchange terminating subscribers' lines, a large portion of said lines being arranged for loop operation, while only a small portion of the lines are arranged for simplex operation over the two sides of the line and a ground return, selectors and connectors in said exchange for completing calls initiated on loop lines, said switches being operated according to the loop system of control, and selector repeaters in said exchange for extending to connectors connections originated on the simplex lines, said selector repeaters being arranged to operate over a simplex circuit and to repeat loop impulses to the connectors.

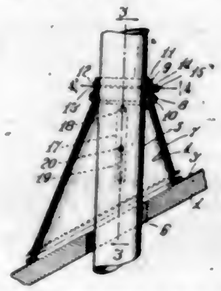
1,686,880. PICTURE SCREEN. JAMES M. SHAY, Cleveland, Ohio, assignor, by direct and mesne assignments, of one-third to Harry J. Lindig and one-third to Homer P. Yoder, Cleveland, Ohio, and one-third to Shay Motion Picture Screen Co., Springfield, Ill., a Corporation of Illinois. Filed Oct. 5, 1925. Serial No. 60,459. 1 Claim. (Cl. 88—24.)



A picture screen comprising a supporting frame made of sections detachably secured together, said sections each having its front face formed of a sheet of fabric impregnated

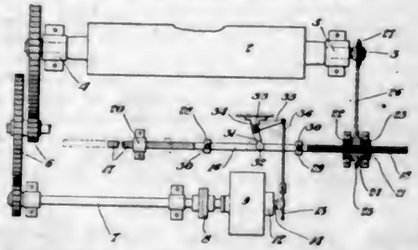
with a pure white paint, and said sections having their front faces in the same plane with the edges of the fabric on one abutting the edges of the fabric on another, spacing strips secured to the front face of the frame, a fine mesh wire screen secured to said strips, spacing strips on the outer side of the screen and secured to the frame, and a sheet of white translucent fabric secured upon the outer spacing strips.

1,686,881. ROOF FLASHING. ROBERT J. STEPHENSON, Chicago, Ill. Filed Mar. 17, 1927. Serial No. 176,047. 4 Claims. (Cl. 285—31.)



1. A roof flashing comprising a base in the form of a flat metal plate having an extensible sleeve consisting of two overlapping sleeve sections, extending from one face thereof, connecting means between the sleeve sections for limiting their separation, a continuous inwardly tapering soft metal collar at the free end of the sleeve, and contractible means surrounding the soft metal collar and adapted to deform the collar and draw it into snug engagement with a pipe.

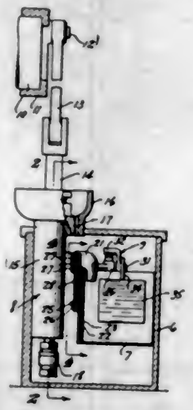
1,686,882. AUTOMATIC LIMIT STOP. WALTER C. SWANCOTT, Cleveland, Ohio. Filed Aug. 12, 1927. Serial No. 212,522. 3 Claims. (Cl. 192—141.)



2. The combination with a motor and a control element for said motor, of means operated by said motor for automatically operating said control element, said means comprising a screw shaft mounted for longitudinal reciprocatory movement and locked against rotary movement, a nut having threaded engagement with said shaft, said nut being journaled in fixed bearings, drive means connecting said nut with said motor whereby said nut will be rotated when said motor is operated, the rotation of said nut being adapted to compel a longitudinal movement of said screw shaft, stop collars adjustably mounted at spaced points on said shaft, and lever mechanism adapted to be engaged and operated by said collars when said shaft is reciprocated, said lever mechanism being connected with and adapted to operate said motor control element to move said element into off position.

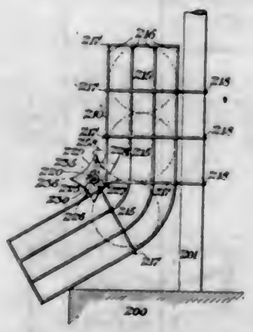
1,686,883. OIL-WELL BAND-WHEEL SPEED CONTROL. DELL G. TAYLOR, Los Angeles, Calif. Filed Mar. 29, 1926. Serial No. 98,309. 1 Claim. (Cl. 123—118.)

A device for controlling the speed of a driven mechanism comprising a sump tank, a receptacle mounted therein having a drainage port for discharging liquid at a constant rate from said receptacle into said sump, a valve for adjusting the flow of fluid through said port, a pump operated by said mechanism for transferring liquid from said sump to said receptacle whereby the rate of liquid



supply thereto is proportionate to the speed of said pump and mechanism, a float arm pivotally mounted on said tank, a float on said arm, and a double throw electrical contact switch operated by movement of said arm in either direction and controlling the driver.

1,686,884. MINE-DROPPING APPARATUS. ALBERT D. TRENOR, New York, N. Y., assignor to John Hays Hammond, Jr. Original application filed June 22, 1917, Serial No. 176,323. Divided and this application filed Sept. 10, 1920, Serial No. 409,376. Renewed May 6, 1927. 12 Claims. (Cl. 114—18.)

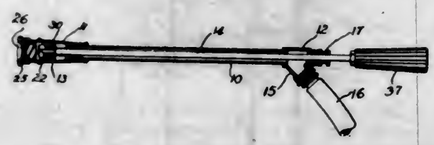


12. In a magazine for holding and releasing bombs, means for normally maintaining all but one of the bombs in alinement, means for restraining the remaining bomb, said restraining means including a star wheel having the configuration of said bombs, means including a fluid actuated device for operating said restraining means and a dashpot for delaying the action of said operating means.

1,686,885. SPRAY GUN. GEORGE E. TRISLER, Salem, Ohio, assignor to The Deming Company, Salem, Ohio, a Corporation of Ohio. Filed Apr. 7, 1924. Serial No. 704,656. 2 Claims. (Cl. 299—117.)

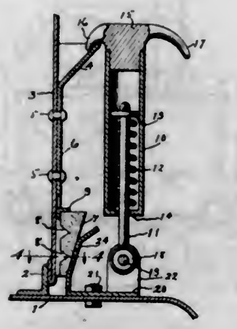
1. In a spray nozzle, the combination of a hollow casing member comprising the body of the nozzle through which fluid passes entering at one end of the member and discharging at the other end of the member, a conduit joined to the inlet end of the casing member, the outlet end of

the casing member being internally threaded with a multiple thread, a cylindrically formed head of diameter equal to the internal diameter of the threaded portion of said hollow casing member, said head having multiple external threads on that portion disposed toward the inlet end of said hollow casing member, said threads being in engagement with the inner portion of the threads on said casing member, the end portions of the head disposed toward the discharge end of the hollow casing member being smooth and being in contact with the outer portion of the internal



threads in the hollow casing member, said head having longitudinally extending slots cut in its surface through the threaded portion thereof and of a greater depth than the depth of the threads, and extending in the direction of the flow of fluid a limited distance beyond the external threads, the number of slots equalling the number of threads in the casing member, means removably secured to the discharge end of said casing and having a centrally disposed orifice, and a stem secured to the end of the head remote from the discharge end of the casing and extending through said conduit.

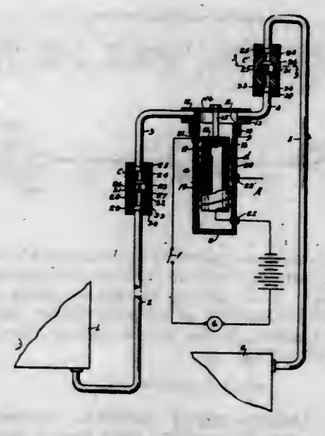
1,686,886. HOOD CLAMP FOR AUTOMOBILES. LOUIS C. VANDERLIP, Elkhart, Ind. Original application filed Dec. 11, 1926, Serial No. 154,055. Divided and this application filed June 24, 1927. Serial No. 201,041. 8 Claims. (Cl. 292—128.)



1. In an automobile hood clamp, the combination of a hood, a hood abutment within the hood, a spring actuated hold-down clamp positioned exteriorly of the hood and adapted to exert downward pressure upon the hood, and yieldable, non-metallic cam means carried by the hood operative when the hood is depressed by said clamp for projecting the hood laterally into engagement with said abutment.

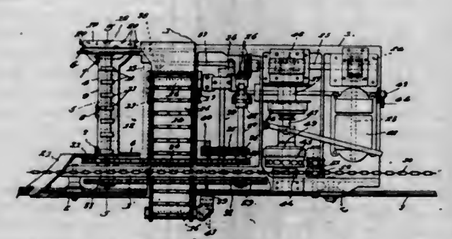
1,686,887. FLUID ELEVATING AND FEEDING MEANS. LESTER E. VAN HISE, Altadena, Calif., assignor to James V. Baldwin, Los Angeles, Calif. Original application filed May 12, 1925, Serial No. 29,824. Divided and this application filed July 26, 1928. Serial No. 295,466. 2 Claims. (Cl. 103—1.)

1. A device of the character disclosed, including two concentric tubular members and a wire coil surrounding one of said members for heating said member upon electrifying the wire coil; the inner tubular member being hermetically closed at one end and the other tubular member being formed with a hermetically closed base portion, said inner tubular member having its open end directed



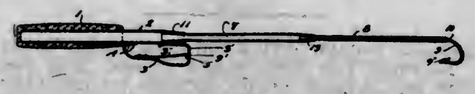
toward and spaced from the base portion; and valve controlled means connected to the open end of said other member to conduct liquid to and from said members.

1,686,888. SHOVEL. JOHN P. WALTER, Allentown, Pa. Filed Nov. 10, 1926. Serial No. 147,482. 7 Claims. (Cl. 262—9.)



1. A power shovel comprising a frame, a rotary shovel at the front end of the frame, a conveyor, a rocking plate for transferring the material from the shovel to the conveyor and a power device for operating said conveyor and the rocking plate, said power device driving a shaft connected by one train of gearing to the rotary cutter and by another train to the rocking plate.

1,686,889. GAFF HOOK. FRANK C. WOODS, Cleveland, Ohio. Filed June 15, 1927. Serial No. 199,000. 6 Claims. (Cl. 43—5.)



1. A gaff hook comprising collapsible, telescoping sections, each of substantially constant cross section throughout its length except at its ends, the telescoping ends of

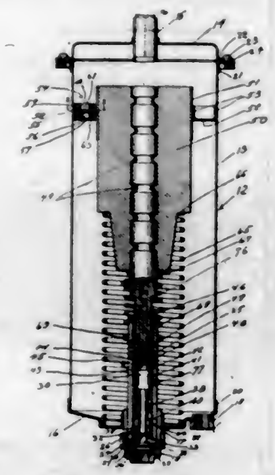
the several sections having relatively abrupt cooperating tapers and flares for effecting frictional retention of the sections in an extended condition while allowing easy and free sliding of the sections telescopically when such abrupt tapers are not in frictional engagement.

1,686,890. EXERCISER. ROBERT W. WOOD, Appleton, Wis. Filed Feb. 11, 1926. Serial No. 87,573. 1 Claim. (Cl. 272—79.)



A physical exerciser comprising a ball having its greatest mass peripherally disposed and provided wtih knobs on its opposite sides, cords passing through openings in the knobs, swivel connections on the ends of the cords, and connecting members having spaced notches engaged by the swivel connections.

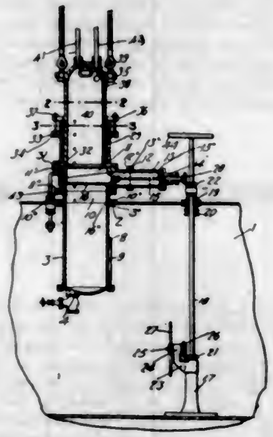
1,686,891. LIQUID-SUPPLY SYSTEM. CHESTER H. BRASELTON, New York, N. Y. Filed June 6, 1922. Serial No. 566,380. 6 Claims. (Cl. 103—28.)



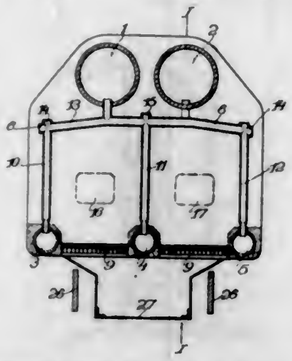
1. In a fuel supply system, the combination of a tank; a pump cylinder within the tank; a weighted plunger adapted to have axial movement in the cylinder; means including a spring for holding said plunger resiliently in a normal position; a ring positioned around the plunger and extending to the inner wall of said tank, adapted to restrain movement of fluid thereabove; and means including a valve adapted to permit the passage of gases only therethrough positioned in said ring.

1,686,892. ESCAPE DEVICE FOR SUBMARINES. HENRY BROWNLEE, Port Hope, Ontario, Canada. Filed Jan. 18, 1928. Serial No. 247,703. 4 Claims. (Cl. 114—16.4.)

1. The combination with the shell or wall of a submarine having an orifice therein, of a chamber depending from such orifice having an entrance opening, a closure for such opening, a valve chamber located exteriorly of the submarine wall and forming an extension of the entrance chamber, a cut-off extending transversely of the valve chamber to form a closure, a diving bell, means for forming a sealed connection between the lower end of the diving bell and the valve chamber, and means within the interior of the submarine for withdrawing the slide valve.



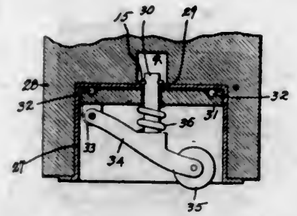
1,686,893. HIGH-PRESSURE STEAM BOILER FOR LOCOMOTIVES. JACOB BUCHLI, Winterthur, Switzerland. Filed Mar. 9, 1927, Serial No. 174,079, and in Germany Apr. 14, 1926. 4 Claims. (Cl. 122—94.)



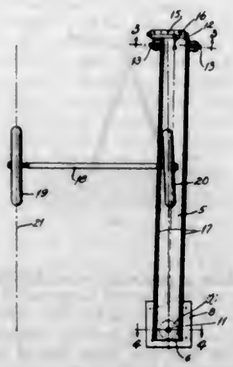
1. A locomotive boiler, comprising in combination, a pair of upper drums, lower drums, and a firebox comprising a front wall, a rear wall, and a plurality of fork shaped water tube elements arranged close together longitudinally of the locomotive boiler and forming the lateral walls and the roof of the fire-box to protect the upper drums and an intermediate wall inside the latter, said fork shaped tube elements consisting of three vertical tubes beaded into the lower drums and of a horizontal tube connecting said vertical tubes together, the horizontal tube of each tube element being provided with a single vertical branch and said branches being alternately beaded into said upper drums.

1,686,894. RECEDING OR DISAPPEARING CASTER OR ROLLER. HOMER A. BUCKERT, St. Louis, and EARL K. HALL, University City, Mo. Filed Nov. 23, 1925. Serial No. 70,824. 4 Claims. (Cl. 16—33.)

1. In a device of the class described a support having a recess therein, a housing located in said recess, a plate rotatably mounted in said housing, an arm pivotally secured at one end to said plate, a roller carried by the opposite end of said arm, a shank carried by said arm and extending through said plate and housing, and means located between said arm and said plate and surrounding said shank for normally causing said roller to project below said housing.
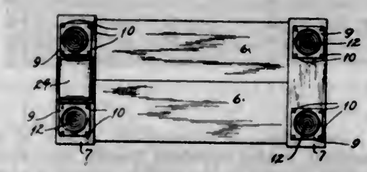


1,686,895. WHEEL-ALIGNMENT INDICATOR. HOMER A. BUCKERT, St. Louis, and EARL K. HALL, University City, Mo. Filed May 12, 1926. Serial No. 108,506. 2 Claims. (Cl. 33—203.)



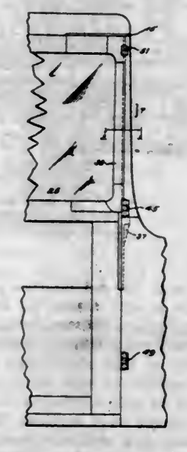
1. A wheel alignment indicator comprising an elongated horizontally swinging member pivoted at one end and having upturned longitudinal edges, said member adapted to be moved by the thrust of a mis-aligned wheel, an indicating finger carried by said finger at one end, and a graduated gauge located below the projecting end of said finger whereby the amount of movement of said arm can be ascertained.

1,686,896. AUTOMOBILE CREEPER. HOMER A. BUCKERT, St. Louis, and EARL K. HALL, University City, Mo. Filed Feb. 2, 1927. Serial No. 165,306. 6 Claims. (Cl. 280—61.5.)



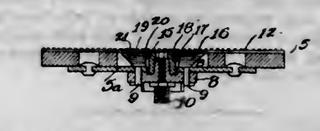
1. An automobile creeper comprising a body portion having recesses in its underneath surface, swiveling rollers carried by said body portion and located in said recesses for supporting the same, and means for resiliently supporting said rollers so that the same can recede into said recesses and the entire body portion rest flat on a floor when said body portion is subjected to a weight in excess of a predetermined amount and again be automatically raised to its original position when said excess weight is removed.

1,686,897. CORNER CONSTRUCTION FOR CLOSED VEHICLES. ALEXANDER CARLSON, Detroit, Mich. Filed Sept. 7, 1927. Serial No. 217,933. 8 Claims. (Cl. 296—28.)



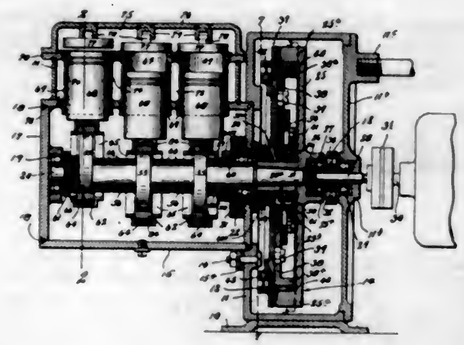
1. An automobile body of the closed type having front corner assemblies of small dimension to provide clear vision for the driver, said assemblies including a top-supporting post extending from below the belt line to the roof and comprising a transverse web of small width, forwardly and rearwardly projecting ribs at the outer and inner sides, respectively, of the upper portion of the post, said web being widened adjacent the belt line and offset to provide a box-like reinforcement open at the outer side and providing a seat to house a hinge leaf, said outer rib extending along and projecting forwardly of the open side of the seat, said inner rib terminating adjacent the belt line to permit closure past the same of the thick lower body of a cooperating door but overlapping and merging with the heavy body of material at the inner wall of said seat and a transverse rib on the forward face of said web at the location of said body merging with the outer rib and tying together said inner and outer ribs whereby to provide a structure of small bulk and weight having a rigid exposed portion of small dimension adapted for close nesting with a door and windshield while providing a maximum resistance to flexion in the vicinity of the belt line.

1,686,898. ABRASIVE ARTICLE. RICHARD P. CARLTON, St. Paul, Minn., assignor, by mesne assignments, to The Stratmore Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 11, 1927. Serial No. 182,886. 5 Claims. (Cl. 51—197.)



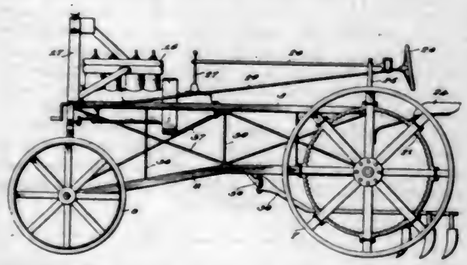
1. An abrasive element comprising a relatively rigid paper backing, a cloth backing adhesively secured thereto, and abrasive material adhesively secured to said cloth, the composite structure being sufficiently ductile to permit of distortion of a part without actual rupture and without material distortion of the entire backing.

1,686,899. COMPRESSOR. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey-Morse Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. Chicago, Ill. Filed July 25, 1927. Serial No. 208,143.



1. In a compressor, the combination of a sealed casing, compressing means in said casing, an actuating shaft for said means and having one end projecting from said casing, a sectional fly wheel comprising a driven section fixed to the projecting end of said shaft, and a driving section loosely mounted relative to said shaft, centrifugally operable means carried by said driving section and adapted to operatively interengage said sections for actuating said compressing means, and elements cooperating with said shaft and said casing, a spring for maintaining said seal elements under normal sealing pressure, said seal elements cooperating with said fly wheel sections and being controlled by said centrifugally operable means to increase the sealing pressure when said compressor is idle.

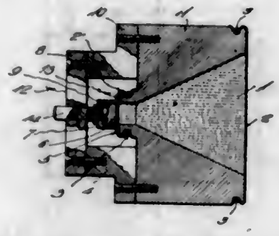
1,686,900. CULTIVATOR. JOSIAH E. COLEMAN and JESSE K. COLEMAN, Fort Smith, Ark. Filed Jan. 13, 1927. Serial No. 160,912. 1 Claim. (Cl. 180—1.)



A tractor frame comprising front and rear arch shaped frame members connected by longitudinally extending frame members, said arch shaped members being formed of double spaced apart vertical side members connected at their lower ends whereby to provide an axle housing at the opposite sides of the lower ends of said arch members of a length equal to the distance of the space between said double vertical side members.

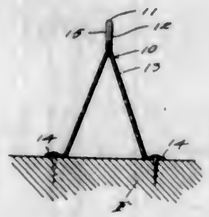
1,686,901. MICROPHONE. CHARLES A. CULVER, Northfield, Minn., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed July 1, 1927. Serial No. 202,962. 2 Claims. (Cl. 179—132.)

1. A microphone comprising a chamber enclosing a liquid content, flexible walls enclosing opposite ends of said chamber, metallic foils carried by the exterior of said flexible walls, a microphonic device positioned in electrical contact with said metallic foils and located with respect to



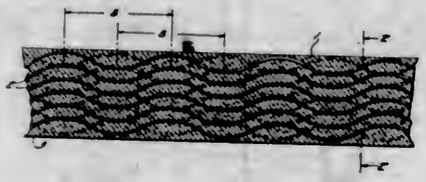
said flexible walls for receiving forces incident thereon from said liquid content corresponding to pressures derived from sound waves impinging against said flexible walls.

1,686,902. CONCRETE-FLOOR SCREED LEVELER. ALVIN DUDFIELD, Liberty, and GRANVILL P. MORRIS, Kansas City, Mo. Filed Feb. 26, 1927. Serial No. 171,258. 1 Claim. (Cl. 72—122.)



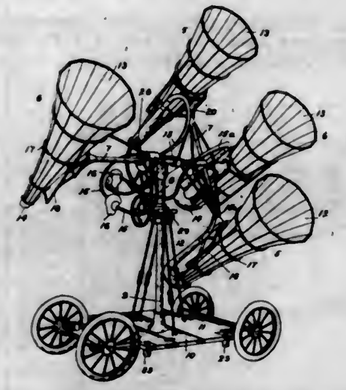
A screed holder comprising a conduplicate sheet, the fold of which is notched for the reception of a straight edge bar, the ends of the sheet being provided with means whereby they may be attached to a form, portions of the sheet abutting from the fold to a point spaced therefrom a distance greater than the depth of the notch, the remaining portions of the sheet diverging from one another and adapted to be bent at varying angles thereby providing an adjustable holder.

1,686,903. BRAKE LINING. FRANK J. EISENHARDT, Waukegan, Ill., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 11, 1926, Serial No. 134,832. Renewed Feb. 17, 1928. 17 Claims. (Cl. 188—259.)



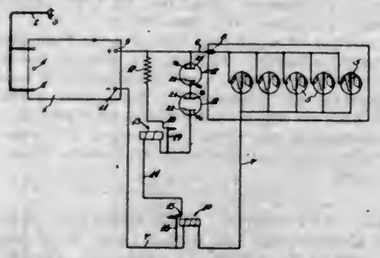
1. As a new article of manufacture, a body of dense, tough, material, having embedded therein, and extending approximately parallel to the surface thereof, a plurality of continuous wires each slightly curved in wave-like form, and arranged in a plurality of groups, the constituent wires of each of said groups lying in a separate plane, and all said planes being parallel one to another and sunk at different depths from the surface of the strip.

1,686,904. SOUND-LOCATING APPARATUS. HIRAM B. ELY, U. S. Army, Philadelphia, Pa. Filed Sept. 14, 1926. Serial No. 135,483. 2 Claims. (Cl. 181—26.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. A sound locating apparatus embodying a wheeled mount, a pedestal hinged to the mount, a cross-arm support and pintle adapted to be mounted as a unit on the pedestal and to be carried on the mount when removed from the pedestal, a plate on each extremity of the cross arm support, a group of horns each including a cradle and saddle for removable attachment to the plate, a carrier including a pair of U-shaped frames securable to the mount and having yielding supports for receiving the horns when dismounted from the cross-arm support.

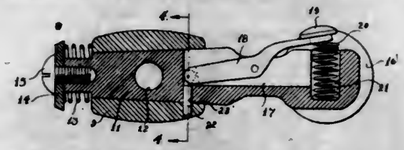
1,686,905. VOLTAGE REGULATOR. EDGAR W. ENGLE, Lake Forest, and ELMER W. LINCOLN, Chicago, Ill., assignors to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Sept. 17, 1926. Serial No. 136,169. 8 Claims. (Cl. 250—27.)



1. In a device of the class described in combination, a source of "A" current, a plurality of thermionic tube filaments, connections between said source and said filaments, a voltage regulating circuit comprising a valve cell, a resistance, means to connect said cell in parallel with said filaments upon the passage of current through one or more of said filaments, and means for connecting said resistance in parallel with said valve cell upon the passage of a predetermined current through said valve cell.

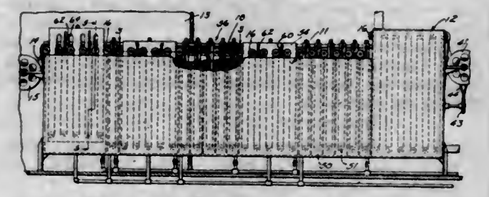
1,686,906. SAFETY LOCK FOR GAS-STOVE VALVES. LUIGI FABA, Detroit, Mich. Filed Sept. 7, 1926. Serial No. 133,965. 2 Claims. (Cl. 251—164.)

1. A stop cock of the class described comprising: a shell having a plurality of radially extending openings formed therein adjacent one end thereof and provided with a recess in said end, the base of said recess lying in the same plane as the base of said openings; a plug rotatably mounted in said shell, said plug having a radially extending opening formed therein, said opening being adapted for registering with the openings formed in said shell upon rotation of said plug to predetermined positions, said plug having a longitudinally extending recess formed adjacent one end communicating at its outer end with a transversely extending pocket; a coil spring positioned in said pocket; a rocker arm pivotally mounted in said longitudinally extending recess and engaging at one end the outer end of said



spring; a locking pin pivotally connected to the other end of said rocker arm and engaging in the opening formed in said plug, and adapted for projecting into the openings formed in said shell upon registering of the opening formed in said plug with said openings in said shell.

1,686,907. FILM-DEVELOPING MACHINE. HARRY K. FAIRALL, Los Angeles, Calif., assignor to Binocular Stereoscopic Film Company, Los Angeles, Calif., a Corporation of California. Filed May 18, 1927. Serial No. 192,311. 3 Claims. (Cl. 271—2.3.)



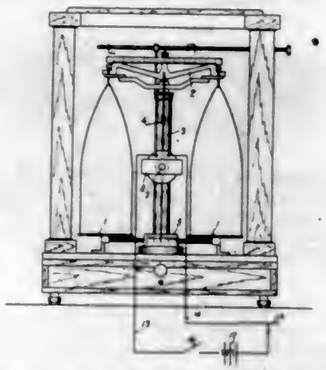
1. In a film developing apparatus, the combination of: driven rollers on which a film is carried; drive rollers arranged at intervals in said apparatus, said drive rollers being adapted to drive said film; and means for driving said drive rollers, said drive rollers being driven progressively faster as the backward end of said apparatus is approached, said drive means including a drive unit having a plurality of drive pulleys, a driven pulley drivably associated with said drive rollers, and belts whereby said drive pulleys operate said driven pulleys.

1,686,908. LENS FOR HEADLIGHTS. HARRY C. FOSTER, Connersville, Ind., assignor to Indiana Lamp Corporation, Connersville, Ind., a Corporation. Filed Feb. 14, 1927. Serial No. 167,997. 1 Claim. (Cl. 240—48.4.)



A lens having a plurality of vertical flutes and horizontal prisms, said prisms being divided into sections of different refractive power, said horizontal prisms dividing the lens into a plurality of zones, the uppermost and lowermost zones being narrower and of greater refractive power than the central zone, and a plurality of horizontally extending flutes associated with the uppermost and lowermost zones.

1,686,909. OSCILLATION-RETARDING DEVICE. JOHN G. FRAYNE, Yellow Springs, Ohio, and FRANCIS D. MORAN, Chicago, Ill. Filed July 25, 1927. Serial No. 208,143. 10 Claims. (Cl. 188—104.)



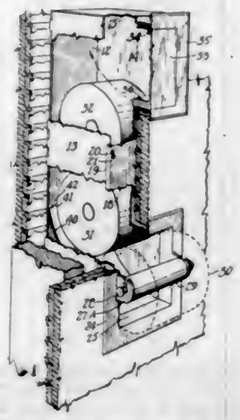
1. The combination of a moving part arranged to oscillate and having a position of rest, a magnet, and a member connected with said part and movable through the field of said magnet, said member having the characteristic of being non-magnetic as a whole and possessing the property of conducting electrical currents induced by the magnetic field of the magnet.

1,686,910. LEVER ARCH. HERXTHAL F. FREASE, Canton, Ohio. Filed Mar. 15, 1926. Serial No. 94,757. 22 Claims. (Cl. 189—37.)



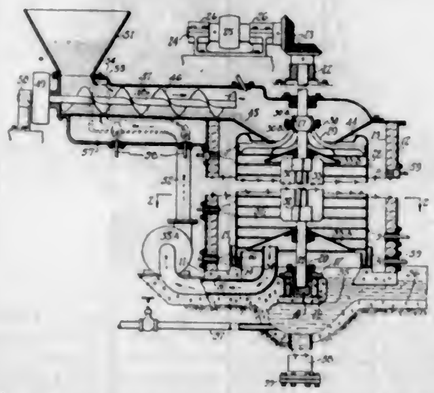
1. A structural member including triangular arch struts having apexes and bases opposite the apexes, means providing apex abutments between adjacent apexes, and means spaced from the adjacent apexes connecting the bases opposite the apexes, and an arch bar secured along the outer edges of the arch struts.

1,686,911. PAPER-DISPENSING DEVICE. ROGNOR F. FREDLUND, Portland, Oreg. Filed Feb. 26, 1927. Serial No. 171,102. 3 Claims. (Cl. 242—55.2.)



1. A cabinet for holding a plurality of rolls of paper in a superimposed contacting position consisting of an upright box member having a curved bottom sloping downwardly toward the front thereof; an outlet therefor provided with a roller bracket; a roller mounted in said bracket across said outlet; and an inlet opening at the top of said cabinet provided with a closure member.

1,686,912. SMELTING APPARATUS. CHARLES E. GLESSNER, Portland, Oreg. Filed June 9, 1927. Serial No. 197,597. 2 Claims. (Cl. 266—10.)

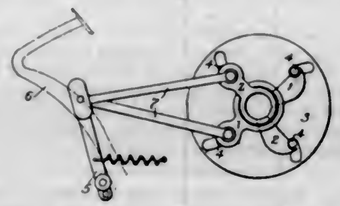


1. A smelter having a centrifugal extractor having a vertical axis and having annular grooves formed therein; a metal collector at the lower end of said extractor forming a seal therefor; means for circulating air downwardly through said extractor; and means for feeding crushed ore uniformly into the top of said extractor.

1,686,913. PURIFICATION OF BENZOIC ACID AND ITS DERIVATIVES. ALPHONS O. JAEGER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Oct. 18, 1927. Serial No. 227,063. 9 Claims. (Cl. 260—108.)

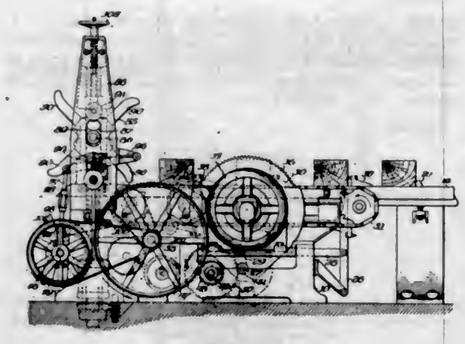
1. A method of separating benzoic acids from phthalic acids which comprises subjecting a mixture containing benzoic acids and phthalic acids to the action of steam at a temperature not substantially above that which the phthalic acids are substantially transformed into the anhydrides, permitting the steam and benzoic acid vapors to leave the mixture and separating the benzoic acids from these vapors.

1,686,914. AUTOMATIC GEAR-SHIFTING DEVICE. JOHN KIRKEBY, San Luis Obispo, Calif. Filed Sept. 22, 1927. Serial No. 221,213. 1 Claim. (Cl. 74—58.)



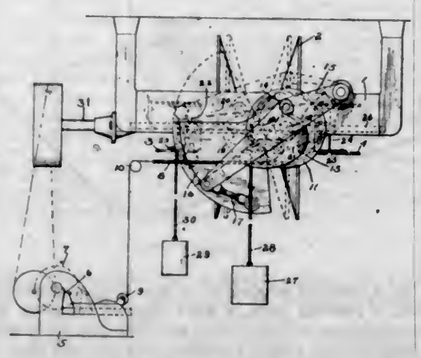
In the gear shifting device described, the operating mechanism comprising two opposed dogs or cams adapted to be rocked from a common center, means for rocking said cams one quarter turn in each direction by the movement of the clutch pedal, four ratchets disposed to engage alternately by the forward and backward movement of said dogs, whereby the shifting cam is revolved, first one quarter turn to neutralize the gears and the next quarter turn to engage the gear selected by the operator.

1,686,915. WOODWORKING MACHINE. FRANKLIN L. LANE, Beloit, Wis., assignor to P. B. Yates Machine Company, Beloit, Wis., a Corporation of Wisconsin. Filed Jan. 12, 1925. Serial No. 1,742. 23 Claims. (Cl. 144—3.)



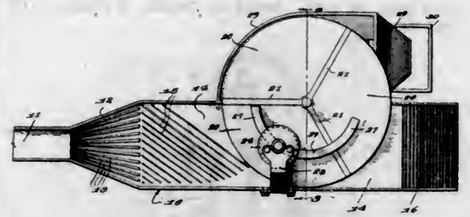
1. In a woodworking machine, means for feeding railway ties sidewise through the machine, including a support for the tie, two feeding devices arranged in tandem for moving the tie along corresponding portions of the support, and means for operating the two devices in synchronism at relatively different linear speeds along the support, the slower device serving to move the ties continuously along one portion of the support, and the faster device serving to move the ties intermittently along another portion of the support.

1,686,916. MECHANICALLY-OPERATED SPEED-CONTROLLING DEVICE. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed Aug. 23, 1922. Serial No. 583,897. Renewed Mar. 1, 1928. 18 Claims. (Cl. 74—7.)



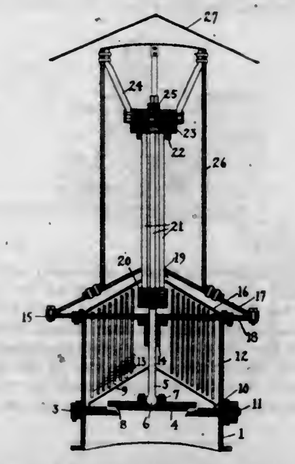
1. The combination with a machine having a movable element and a variable speed transmission mechanism for driving said machine, said transmission mechanism having adjustable parts, of a rotating drum, a cam operable with said drum, a beam operated in one movement by said cam, means operable by the movement of said beam for shifting the adjustable parts of said transmission mechanism, a flexible element extending from said drum to said movable element of the machine for causing said drum to rotate in one direction incident to the movement of said element, and means for operating said drum and beam operable means to reverse movement.

1,686,917. MAGNETIC ORE SEPARATOR. WILLIAM L. MCADAMS, Coquille, Oreg. Filed Mar. 16, 1926. Serial No. 95,055. 2 Claims. (Cl. 209—222.)



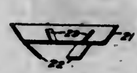
2. A magnetic ore separator comprising a trough, a rotatable member journalled upon an axis fixed at the side of the trough, said rotatable member being composed of an underplate of insulating material, spaced magnetizable segments mounted upon the upper surface of said insulating material, each of said segments being of sufficient size to completely bridge the trough when disposed thereover, and a magnet located above the rotatable member and having a shoe adapted to contact with said segments.

1,686,918. SAFETY APPLIANCE FOR INFLAMMABLE-MATERIAL CONTAINERS. RICHARD J. MONNETT, St. Louis, Mo., assignor to Monnett Company, El Dorado, Ark., a Corporation of Arkansas. Filed Mar. 3, 1927. Serial No. 172,510. 11 Claims. (Cl. 220—89.)



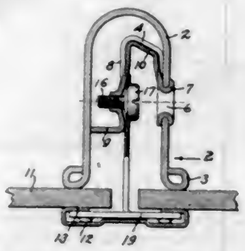
1. A vapor outlet for inflammable material containers, comprising a vent pipe, a pressure relief valve disposed therein, and thermo-expansive means in said pipe and operable on said valve for closing said pipe under influence of heat.

1,686,919. NONSLIP FLOOR. DANIEL J. MURNANE, San Francisco, Calif. Filed June 14, 1924. Serial No. 720,080. 6 Claims. (Cl. 94—5.)



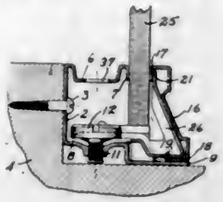
5. An inlay for a non-slip floor comprising a metallic shell for seating a plate forming a tread, and studs on said shell and extending in substantially opposite directions for simultaneously anchoring the plate and shell in the floor.

1,686,920. SASH FOR HOLDING GLASS. DANIEL J. MURNANE, San Mateo, and DANIEL J. MURNANE, Jr., San Francisco, Calif., assignors to Non-Pressure Glazing Company, San Francisco, Calif., a Corporation of California. Filed Sept. 16, 1925. Serial No. 56,657. 8 Claims. (Cl. 189—78.)



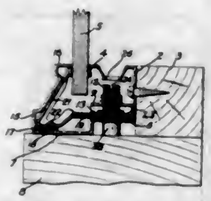
1. A sash for holding glass comprising a stationary member adapted to engage one side of the glass, an adjustable member adapted to engage the other side of the glass, a tie bar secured to one of said members and having a corrugated end, a bracket on the other member, and clamping means embedding in said corrugated end for locking the bar to the bracket.

1,686,921. SASH FOR HOLDING GLASS. DANIEL J. MURNANE, San Mateo, and DANIEL J. MURNANE, Jr., San Francisco, Calif., assignors to Non-Pressure Glazing Company, San Francisco, Calif., a Corporation of California. Filed Sept. 16, 1925. Serial No. 56,658. 5 Claims. (Cl. 20—56.4.)



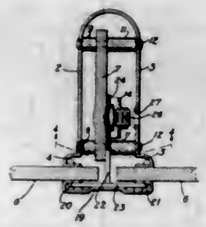
1. In a sash for holding glass, a stationary sash bar comprising a wall adapted for connection to the supporting structure, a top flange integral with the wall and forming a fixed glass-engaging edge, a base flange integral with the wall and providing a tie bar seat, an adjustable sash bar adapted to engage the opposite side of the glass, a tie bar interlocked with the adjustable sash bar and extending over said seat, and means for locking the tie bar to the seat.

1,686,922. SASH FOR HOLDING GLASS. DANIEL J. MURNANE, San Mateo, Calif., assignor to Non-Pressure Glazing Company, San Francisco, Calif., a Corporation of California. Filed May 22, 1926. Serial No. 110,874. 13 Claims. (Cl. 20—56.4.)



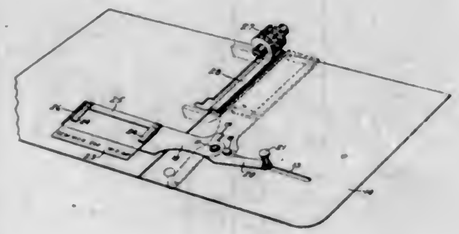
1. A sash for holding plate glass comprising a stationary bar adapted to engage one side of the glass, an adjustable bar adapted to engage the other side of the glass, a tie bar fixed to said adjustable bar and engageable with said stationary bar, a bridge secured to said stationary bar, and a screw threaded in said bridge for clamping said tie bar to said stationary bar when said bars are in assembled position.

1,686,923. SASH FOR HOLDING GLASS. DANIEL J. MURNANE, San Mateo, Calif., assignor to Non-Pressure Glazing Company, San Francisco, Calif., a Corporation of California. Filed May 22, 1926. Serial No. 110,875. 6 Claims. (Cl. 189—78.)



1. A sash for holding glass comprising a stationary member having spaced sides the edges of which are adapted to engage one side of the glass, an adjustable member adapted to engage the other side of the glass, means for operatively connecting said members, and a bar rigidly disposed between the spaced sides of the stationary member to form a stiffening member therefor.

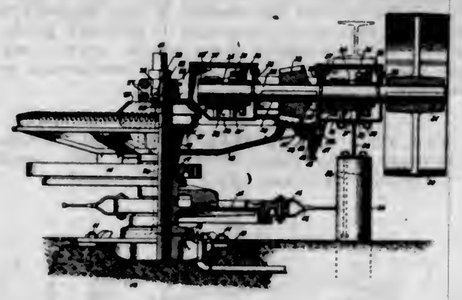
1,686,924. PRINTING MECHANISM FOR CASH REGISTERS. EMIL E. OBERHAUSER, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Oct. 21, 1926. Serial No. 143,232. 7 Claims. (Cl. 101—407.)



1. In a printing mechanism, a type line, an impression platen, a printing table, a lever adapted to swing in a horizontal plane to move record material from a non-printing position to a printing position between said type line and said impression platen, means for holding record material on said lever, means for stopping said lever in both of said positions, means for normally retaining said lever in non-printing position, and an adjustable pivot for said lever.

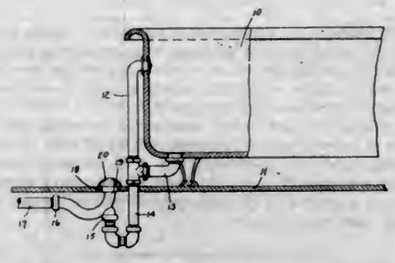
1,686,925. GEAR POWER. JOHN REID, Oil City, Pa., assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Filed Nov. 22, 1927. Serial No. 235,102. 2 Claims. (Cl. 74—14.)

1. In a power device of the character described, a shaft, eccentrics mounted on said shaft, a gear mounted on said shaft and fixed to said eccentrics for rotation therewith, a frame releasably connected to said shaft for supporting said shaft, a drive shaft mounted on said frame, a gear on said



drive shaft meshing with said first-mentioned gear, and independent means for supporting the outer end of said frame.

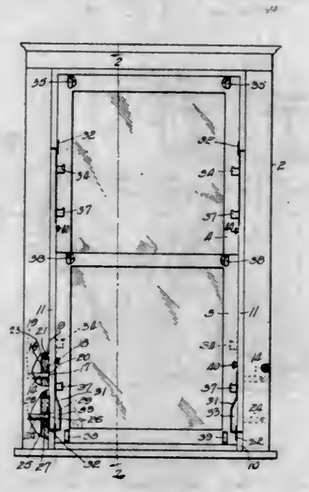
1,686,926. WATER SEAL FOR WASTE PIPE. EARL W. RICH, Indianapolis, Ind. Filed July 31, 1926. Serial No. 126,266. 1 Claim. (Cl. 182—7.)



A trap including a clean-out passage directed upwardly, an intake passage directed downwardly and an outlet passage directed upwardly and terminating between the terminations of the clean-out and inlet and above the connection therebetween for simultaneously sealing both the intake and clean-out from the discharge, said clean-out and intake passages each having a gradual curvature in general direction and oppositely directed and arranged in V-formation, with the outlet passage being connected thereto at the junction of the other two passages and including an intermediate downwardly curved sealing portion formed as a continuation of the clean-out passage curvature.

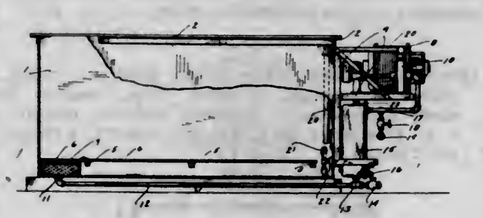
1,686,927. WINDOW. DAVID REES RICHARDS, St. Louis, Mo. Filed May 31, 1923. Serial No. 642,487. Renewed Mar. 1, 1928. 8 Claims. (Cl. 20—42.)

1. In a window construction, a window casing having a pair of opposed fixed outer sash guide strips, a pair of opposed inner sash guide strips, means for pivotally supporting and laterally moving said inner sash guide strips, a pair of opposed fixed upper and lower parting bead strips, a pair of opposed intermediate parting bead strips, means for pivotally supporting and laterally moving said intermediate parting bead strips, sash supporting arms fixed to the pivotally supported and laterally movable inner sash guide strips, hooks and loops fixed to the lower sash for engagement with said arms to secure the lower sash to the inner sash guide strips during inward swinging movement of the lower sash, sash supporting arms fixed to the pivotally supported and laterally movable intermediate parting bead strips, hooks and loops fixed to the upper sash for engagement with said arms to secure the upper sash to the intermediate pivotally supported and laterally



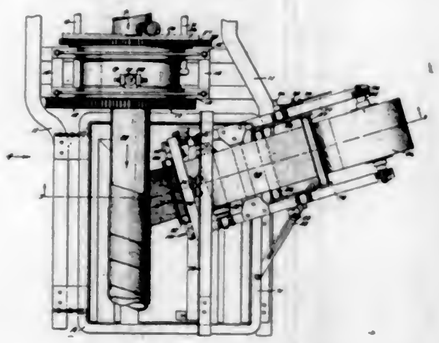
movable parting bead strips during inward swinging movement of the upper sash after the lower sash has been lowered by inward swinging movement thereof.

1,686,928. BULB STERILIZER. JOHN H. ROGERS, Portland, Oreg. Filed Aug. 28, 1926. Serial No. 132,210. 3 Claims. (Cl. 146—197.)



1. In a bulb sterilizer, an oblong tank for holding a liquid solution, a submerged horizontal diaphragm in said tank for supporting the products being sterilized, said diaphragm being elevated above the bottom and spaced from the side walls of said tank to permit a liquid contained in said tank to circulate freely thereabout; an agitator at one end of said tank adapted to cause a liquid contained therein to circulate toward the opposite end and to pass about the products resting upon said diaphragm, said agitator being located at one end of said diaphragm and vertically positioned relative thereto to enable the current of greatest strength created thereby to pass immediately above and below said diaphragm thereby carrying the refuse matter liberated from the products to the end of the tank opposite said agitator, a liquid discharge outlet in the end of the tank opposite said agitator, means preventing the entrance of liberated refuse matter into said discharge outlet, a liquid outlet adjacent the aforesaid agitator adapted to return the liquid passing through the outlet to said tank, and means to heat the liquid as it passes from the outlet to the inlet.

1,686,929. PIPE-WRAPPING MACHINE. LELAND S. ROBBNER, San Francisco, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed July 28, 1924. Serial No. 728,551. 26 Claims. (Cl. 242—11.)

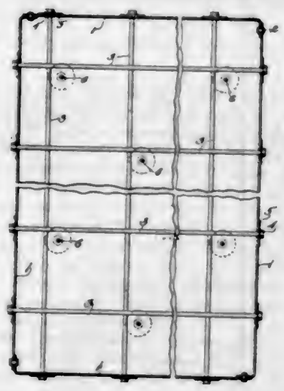


1. In a machine for wrapping cylindrical objects, a frame, feed rollers journaled on said frame, means for rotating said rollers, and means for rotating said frame to rotate the object being wrapped.

1,686,930. EMETINE DERIVATIVES FOR THERAPEUTICAL PURPOSES. ERNST ROTHLIN and FRITZ MÜLLER, Basel, Switzerland, assignors to The Firm Chemical Works formerly Sandoz, Basel, Switzerland. Filed Dec. 22, 1927, Serial No. 242,007, and in Switzerland Jan. 12, 1927. 4 Claims. (Cl. 260—25.)

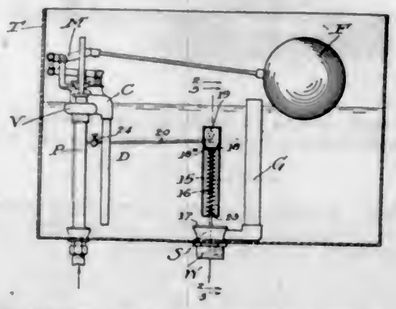
1. As new articles of manufacture, a bile acid salts of cephaeline alkylethers, being slightly yellowish powders, easily soluble in alcohol and methanol, more difficultly soluble in acetone and ether, nearly insoluble in water and possessing a strong antiparasitic action.

1,686,931. PRESSURE-RESISTING STORAGE TANK. GORDON W. RUSSELL, Brookline, Mass., assignor, by mesne assignments, to Johannes Kjekstad, Brooklyn, N. Y. Filed May 4, 1923. Serial No. 636,577. 4 Claims. (Cl. 220—4.)



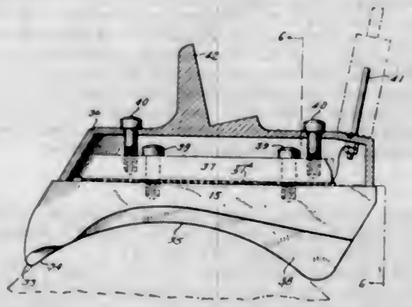
1. A storage tank embracing in its construction top, bottom and side walls comprising plates tightly secured together, and a series of stay rods arranged in horizontal groups at different levels, each group comprising two angularly disposed rows of rods arranged in closely adjacent planes and anchored to opposed walls to sustain outward pressure, and series of vertical stay rods anchored to the top and bottom walls and arranged in close proximity to one or both rows of rods comprising the horizontal groups, whereby the whole interior of the tank is rendered accessible when the stay rods are in place, substantially as described.

1,686,932. FLUSH-VALVE MECHANISM. MORRIS SCHILLER, Venice, Calif. Filed Sept. 26, 1927. Serial No. 222,076. 18 Claims. (Cl. 4—41.)



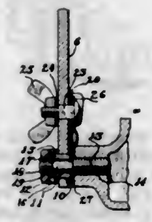
1. A flush valve mechanism comprising a spud, a valve yieldably urged to open position with respect to the spud, means for closing the valve, means adapted for connection to a water supply pipe for conducting water to said means so that its pressure actuates said means to effect a positive closing of said valve, means for relieving the first means of water pressure to allow opening of said valve, and a check valve for maintaining a predetermined pressure of water in the first means whereby temporary reduction of water pressure in the supply pipe will be ineffective to permit opening the valve.

1,686,933. SEAM-PRESSING MACHINE. LOUIS B. SEMEL, New York, N. Y. Filed May 22, 1926. Serial No. 110,904. 1 Claim. (Cl. 68—9.)



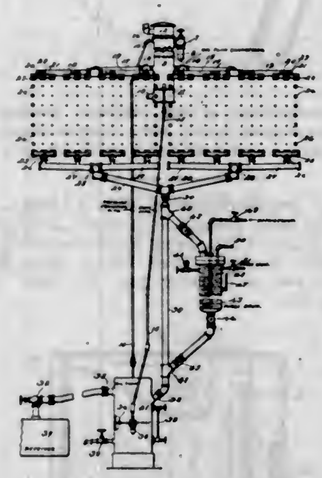
In a seam pressing machine, the combination with a feed roll, of a pressing iron having a pressing surface complementary to the surface of the feed roll, and also having a tip portion in advance of the pressing surface adapted to separate the seam and to flatten it and to guide the seam to the pressing iron, said tip including a thin, pointed nose having lateral faces which are substantially vertical and parallel at the forward end of the nose and which incline increasingly outward toward the rear of the nose, and finally merge into the pressing surface of the iron.

1,686,934. BRUSH AND HANDLE FOR VACUUM CLEANERS. ADAM A. SERVA, Canton, Ohio, assignor to The United Electric Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 23, 1922. Serial No. 590,113. 3 Claims. (Cl. 306—4.)



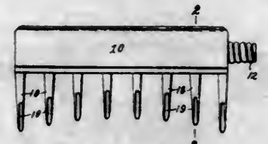
1. In combination with a vacuum cleaner, a threaded stud upon each side thereof, a headed bushing mounted upon each stud, a handle bail journaled upon the bushing and a nut upon the stud for tightening the bushing against the side wall of the cleaner.

1,686,935. CONDENSER. THOMAS SHIPLEY, York, Pa., assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa., a Corporation of Delaware. Filed May 31, 1924. Serial No. 717,072. 10 Claims. (Cl. 257—36.)



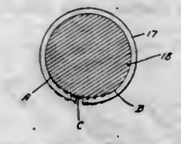
1. A condenser for refrigerating systems, comprising in combination, a plurality of pipe coils arranged to drain themselves of liquid refrigerant by gravity flow; a manifold offtake for the condensed liquid arranged for gravity flow, and having at all points a gravity liquid flow capacity in excess of the condensing capacity of the coils discharging thereinto, whereby a gravity flow outlet for heavy gases is afforded by said offtake; a chamber in communication with said offtake; a liquid seal beyond said chamber arranged to intercept gases and pass liquid refrigerant; means serving to segregate the non-condensible portion of said intercepted gases within said chamber; and means for venting said chamber.

1,686,936. FOUNTAIN COMB. WILLIAM C. SIMPSON, Muskogee, Okla. Filed Aug. 18, 1927. Serial No. 213,925. 7 Claims. (Cl. 132—13.)



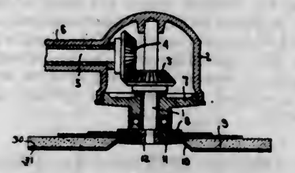
1. A fountain comb including teeth which are tubular at their upper ends and substantially spoon-shaped at their lower ends, the middle and lower end portions of the teeth being substantially U-shaped in cross section substantially as shown.

1,686,937. PROCESS OF MAKING PISTON RINGS. WALTER J. SIX, Indianapolis, Ind., assignor, by direct and mesne assignments, to B. D. Emanuel, trustee. Filed Sept. 28, 1926. Serial No. 138,242. 8 Claims. (Cl. 29—56.6.)



1. The process of forming split rings consisting in distorting said rings so that the adjacent free ends thereof will extend within a true circle passed thereabout, heat treating said rings in such deformed condition, and thereafter grinding or turning the same so as to vary the stress of the metal and cause said ends to resume their normal circular position.

1,686,938. SURFACING APPARATUS. HERBERT R. STRATFORD, Cleveland, Ohio, assignor to The Stratmore Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 10, 1926. Serial No. 101,087. 3 Claims. (Cl. 51—195.)

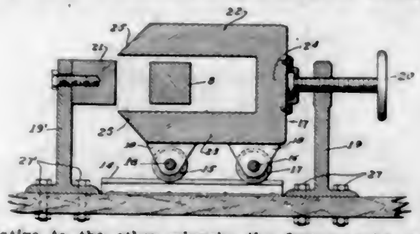


1. A surfacing device consisting of a supporting pad and a surfacing disk, said disk consisting of a stiff and strong sheet of a cellulose product, a sheet of cloth adhesively secured over substantially its entire area thereto, and a coating of grains adhesively secured over the free surface of said cloth, said composite disk being relatively stiff and rigid and having the capacity of resisting the torsional and buckling strains imposed upon it under rotation at high speed from a central point and when supported over its rear surface by said pad free therefrom except adjacent such central point, and having also the capacity of flexing when under lateral pressure.

1,686,939. MEANS FOR REGULATING ALTERNATING CURRENT. CLINTON E. STRYKER, North Chicago, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Jan. 31, 1927. Serial No. 165,018. 2 Claims. (Cl. 171—242.)

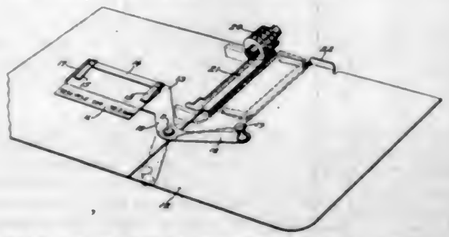
1. In a choke-ring for varying the impedance in a secondary circuit, a U-shaped, laminated iron block formed by spaced horizontal bars with a connecting bar integral with one end of each, tapered portions at the other end of

each horizontal bar, a laminated iron block adapted to fit between the horizontal bars, means for supporting this block and the U-shaped block, and means for moving one



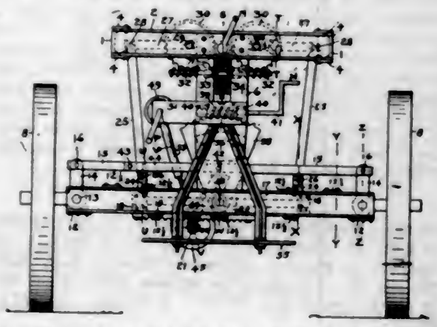
relative to the other whereby the first may be spaced from the second, adjacent its tapered portions, or entirely between its horizontal bars.

1,686,940. PRINTING MECHANISM FOR CASH REGISTERS. CHARLES TATOUSEK, Buffalo, N. Y., assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Oct. 29, 1926. Serial No. 144,970. 2 Claims. (Cl. 101—407.)



2. In a machine of the class described, the combination with a printing mechanism, and a table; of a ticket-carrying lever pivotally mounted intermediate its ends on the table; and having a broadened arm, the opposite arm of the lever serving as a handle to swing the broadened arm towards and from the printing mechanism; an abutment fastened to the broadened arm of the lever to constitute an aligning bar against which one edge of the work is positioned; a flange formed on the broadened arm of the lever against which another edge of the work is positioned; and spring clips extending over the broadened arm with their free ends in contact therewith, beneath which fingers the work is slipped to position it against the aligning bar and flange.

1,686,941. VEHICLE LEVELING MACHINE. WILLIAM M. TAYLOR, Indianapolis, Ind., assignor to Mary A. Taylor, Indianapolis, Ind. Filed Mar. 4, 1927. Serial No. 172,649. 25 Claims. (Cl. 37—157.)



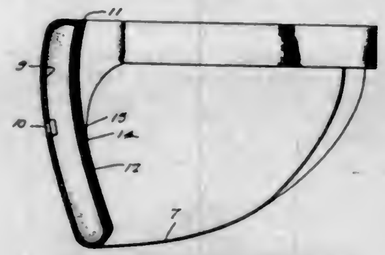
1. A body frame and an axle mounted on wheels, in combination with two arms rigidly attached to the body frame and hinged to the axle and means for leveling the body frame when the axle is inclined to the horizontal.

1,686,942. SPEECH VENT. HENRY J. THIELKER, New York, N. Y., assignor to Triplex Safety Glass Company of North America, New York, N. Y., a Corporation of Delaware. Filed Jan. 19, 1928. Serial No. 247,774. 3 Claims. (Cl. 20—40.)



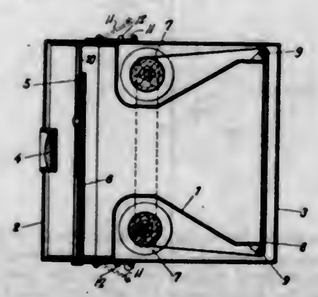
1. A device for securing a guard plate in spaced relation with an apertured wall, said device comprising a reversely hooked bar adapted to engage at one end the edge of the apertured wall and at the other end the edge of the guard plate, a wedge block interposed between the hooked bar and the adjacent wall, and means to draw the wedge into position.

1,686,943. SUSPENSORY. ALONZO TRITCH, Paterson, N. J. Filed Aug. 23, 1927. Serial No. 214,907. 3 Claims. (Cl. 128—60.)



2. In combination, a body attaching member, an inflatable pad secured thereto and a sheet of flexible impression recording material removably carried by said pad.

1,686,944. PHOTOGRAPHIC BOX CAMERA. FRANZ WEIDERT, Berlin-Zehlendorf, Germany, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Berlin-Friedenau, Germany. Filed Aug. 5, 1924. Serial No. 730,147, and in Germany Aug. 13, 1923. 1 Claim. (Cl. 95—31.)



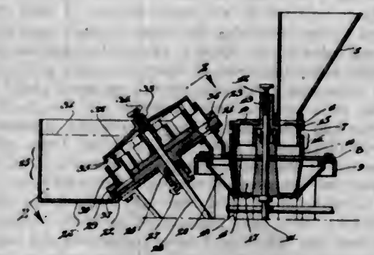
In a photographic film box-camera a carrier element adapted to carry the film spools and provided with film guiding rollers, a wall mounted on said carrier element in front of the film spools and film guiding rollers, a shutter and a diaphragm mounted on said wall, two caps adapted to be put on said carrier element from opposite ends thereof so as to form a light tight casing or box and an objective in the form of a meniscus mounted in the front end cap.

1,686,945. WEIGHT-REGULATING DEVICE. JAMES S. ABERCROMBIE, Houston, Tex. Filed July 1, 1927. Serial No. 202,887. 2 Claims. (Cl. 255—27.)



1. In a device of the character described a nipple, an inwardly directed flange thereon having opposite keyways therein, a mandrel slidable in said nipple, keys on said mandrel fitting in said keyways, means on said mandrel engaging said flange to limit the movement longitudinally of said mandrel in said nipple, said keys being freed from said flange when the mandrel is at its upper limit of movement in said nipple whereby said mandrel may rotate slightly relative to said nipple, and means to limit said rotation and guide said keys into said keyways.

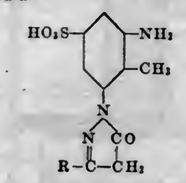
1,686,946. CAN-FILLING MACHINE. CHARLES H. AYARS, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J., a Corporation of New Jersey. Filed Mar. 24, 1927. Serial No. 177,871. 4 Claims. (Cl. 226—102.)



1. In a can filling machine, a brine tank; a bed plate sloping downwardly into the tank, and a series of open ended measuring cylinders carried above the bed plate and slidable thereon in a curved path extending into the tank, the bed plate having a reduced part extending upwardly from its lower edge under the downward path of travel of the brine cylinder.

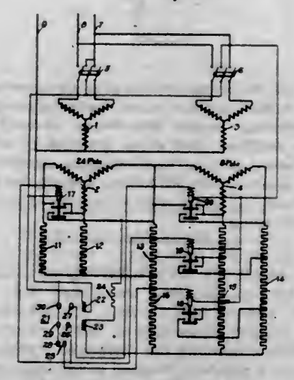
1,686,947. DIAZOTIZABLE AZODYESTUFFS. MELCHIOR BOENIGER, Basel, Switzerland, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Filed Oct. 15, 1925, Serial No. 62,659, and in Germany Mar. 28, 1925. 4 Claims. (Cl. 260—78.)

1. The herein described unsymmetrical azodyestuffs deriving from one molecule of a tetrazodiaryl, one molecule of a 2'-methyl-3'-amino-5'-sulpho-1-phenyl-5-pyrazolone of the general formula



where R stands for CH_3 or COOH, and one molecule of an azo component, the herein mentioned pyrazolone derivatives excluded dyeing unmordanted cotton in shades varying from orange to red and dark brown, which, diazotized on the fibre, can be developed to similar shades fast to washing, constituting in form of their sodium salts brick red to brown black powders, easily soluble in water with orange to violet brown colour, dissolving in concentrated sulphuric acid with red violet to black violet coloration, their ammonical watery solution boiled with zinc dust being decolorized, this solution becoming in contact with the air rapidly violet.

1,686,948. MOTOR-CONTROL SYSTEM. EDGAR M. BOUTON, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 27, 1922. Serial No. 577,828. 6 Claims. (Cl. 172—289.)

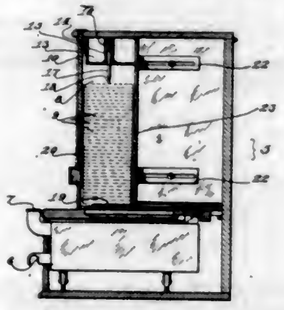


1. The combination with an alternating-current motor having windings corresponding to different speeds and separate accelerating switches for each speed winding, of a single accelerating relay for controlling said switches.

1,686,949. INDICATING MEANS FOR VENDING MACHINES. FRANCIS J. BRANDT, Philadelphia, Pa., assignor of two-thirds to Hollweck & Bauer, Philadelphia, Pa. Filed June 4, 1927. Serial No. 196,444. 6 Claims. (Cl. 312—68.)

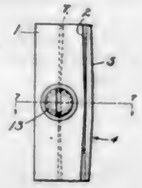
1. In a vending machine, a compartment adapted to contain a stack of material, an indicating device within the compartment, means on said device for enabling it to

slide in said compartment with its bottom part in a plane substantially perpendicular to the sides of the compartment, said device having supporting means adapted to



exert a variable pressure on a stack of material within the compartment, and means at the bottom of the compartment for receiving said supporting means and fixing the indicating device in a predetermined position.

1,686,950. DENTAL ATTACHMENT. WALTER G. BRIDGE, Newton, Mass., assignor to Charles E. Parkhurst, Somerville, Mass. Filed Jan. 5, 1927. Serial No. 159,106. 4 Claims. (Cl. 32—12.)



1. A dental attachment comprising elements adapted to secure an artificial denture to an abutment tooth, said elements comprising loosely interfitting dovetailed tongue and groove portions, and a pin adapted to be threaded into the grooved element and engaging an oblong slot in the tongue element, said pin having a head and a threaded shank adjoining the same, the remainder of the pin being free from threading.

1,686,951. BEARING AND METHOD OF MAKING IT. JOSEPH BRINCIL, Reading, Pa. Filed Sept. 21, 1926. Serial No. 136,894. 16 Claims. (Cl. 308—242.)

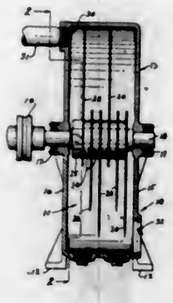
10. The method of making a self-lubricating bearing which comprises abrading the surface of a base metal, applying thereto a powdered bearing metal and a binder, and uniting the powdered metal to the abraded base by means of pressure.

13. A self-lubricating bearing in cylindrical form comprising a metal base having an abraded surface and a spongy layer of graphite and powdered bearing metal in the cold state united to said abraded surface.

1,686,952. GELATINIZED EXPLOSIVE COMPOSITION. KENNETH R. BROWN, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 10, 1926. Serial No. 134,752. 12 Claims. (Cl. 52—13.)

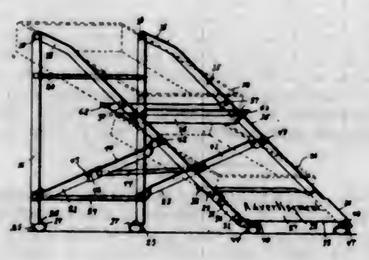
1. The method of promoting the gelatinization of dynamites containing nitrocellulose-nitro-glycerine-nitrated sugar mixtures which comprises incorporating therein a nitroglycol

1,686,953. MIXING APPARATUS. RALSTON B. BROWN, Los Angeles, Calif. Filed Dec. 29, 1924. Serial No. 758,562. 3 Claims. (Cl. 146—67.)



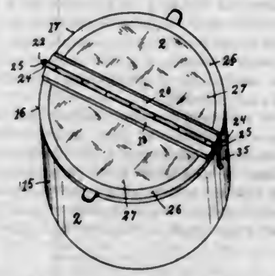
3. An apparatus for the continuous mixing and delivery of semi-solid material, comprising a housing having an inlet port in the upper portion of one side wall and an outlet port in the lower portion of the opposed side wall, a rotatable shaft extending between said walls, a plurality of knives mounted on said shaft and spaced longitudinally thereof and in staggered relation to each other.

1,686,954. DISPLAY STAND. EDWARD BRUNHOFF, Wyoming, Ohio. Filed Apr. 2, 1926. Serial No. 99,400. 2 Claims. (Cl. 211—85.)



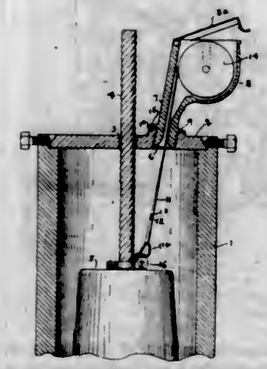
1. A display stand comprising a relatively long front frame having a short section near its upper end bent to an obtuse angle relative to the main section of said front frame and a plate spanning the lower front of said front frame, and adapted to display advertising matter, said front frame being composed of front side rails and a plurality of channeled cross bars serving to space apart the front side rails and to form supports for the front of the bottoms and front ends of the downwardly inclined articles to be displayed, a relatively short rear frame pivotally attached at its upper end to the upper end of said front frame and composed of rear side rails and cross rods serving to space apart said rear side rails, front brace links and rear brace links respectively pivotally connected together near one end thereof upon a cross-bar and respectively pivotally attached at their opposite ends to intermediate positions on said front side rails and rear side rails, said brace rods serving when in their extended positions to rigidly support the front frame and rear frame relatively in their extended position and when folded one upon the other to permit said front and rear frames to assume a collapsed position side by side and substantially parallel one to the other, and means carried by said frames to support the rear ends of the articles to be displayed independently of the support for the front end of said articles to be displayed.

1,686,955. DISPLAY LID. EDWARD BRUNHOFF, Cincinnati, Ohio. Filed May 21, 1926. Serial No. 110,765. 3 Claims. (Cl. 220—82.)



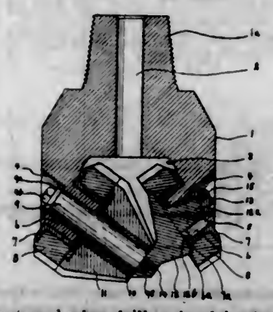
1. A display lid comprising two lid sections, a pair of spring fingers located outside of said lid sections and serving to detachably attach said lid sections to the rim of an original container, and a hinge axle common to both of said lid sections and extending beyond said lid sections at opposite ends thereof and constituting outside of said lid sections a pivotal attachment between said spring fingers and lid sections.

1,686,956. MEASURING TAPE. CLINTON H. M. BULL, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a Corporation of Texas. Filed Apr. 15, 1927. Serial No. 184,010. 6 Claims. (Cl. 33—137.)



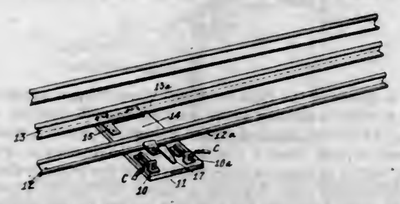
1. In well drilling apparatus, a soluble tape whereby the depth of a well may be measured.

1,686,957. ROLLER BIT. CLINTON H. M. BULL, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a Corporation of Texas. Filed May 20, 1927. Serial No. 192,846. 6 Claims. (Cl. 255—71.)



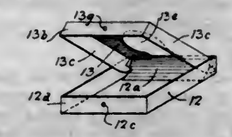
5. In a rotary boring drill, a head having a recess, an annular flange on one wall of said recess, a pin extending from the opposite wall of said recess, cutters on said flange and pin, and a removable device to hold said cutters on said flange and pin and to support said pin.

1,686,958. SPRING BINDING POST. LOUIS CARUSO, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y., a Corporation of New York. Filed May 26, 1925. Serial No. 32,893. 3 Claims. (Cl. 173—259.)



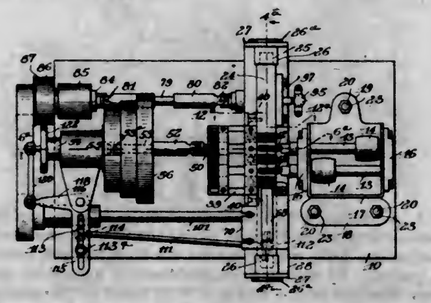
1. A terminal clip of the character described comprising a body member constructed at one end thereof with a looped portion having openings to form an upstanding skeletonized stanchion, a substantially U-shaped spring tongue having a hole at one end thereof, and means on said member for anchoring the tongue against displacement with the unperforated end projecting through the openings in the loop portion, said anchoring means including a lug extending from said member adjacent the stanchion for locking with the hole in said tongue, and holding means on said member for engaging said tongue at a spaced distance from said hole.

1,686,959. POSTAGE-STAMP HOLDER. GEORGE W. CASTEEL, San Diego, Calif. Filed Aug. 27, 1927. Serial No. 215,788. 2 Claims. (Cl. 206—39.)



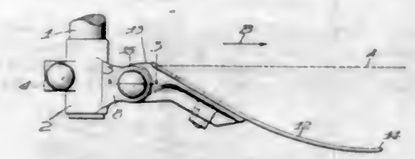
2. A box for postage stamps, comprising a rectangular base member having its bottom upwardly inclined at one end and slotted on the sides of said inclined portion, and a cover member having one end open and its side walls provided at said end with projections adapted to enter said slots to form a hinge connection, the top of said cover member having a finger opening.

1,686,960. CARVING MACHINE. JAMES E. COOPER, Perry, N. Y. Filed Jan. 27, 1926. Serial No. 84,051. 26 Claims. (Cl. 144—2.)



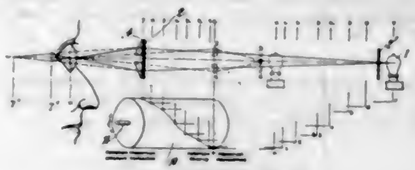
1. In a machine of the class described, a base, a work holder, a plurality of supporting devices for the holder mounted upon the base and adapted for oscillation in different directions at the same time, one upon another, means for simultaneously operating said devices and a tool adapted to operate upon the work during movement thereof.

1,686,961. ADJUSTABLE PLOW AND SHOVEL. JAMES T. DAVENPORT, Galesburg, Ill. Filed Feb. 28, 1927. Serial No. 171,636. 2 Claims. (Cl. 97—203.)



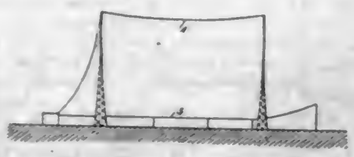
2. A device of the type described comprising a support, a body portion arranged to be secured to said support and having an arcuate-shaped groove therein, a shovel, a bracket secured to said shovel and having arcuate-shaped walls, one of which is adapted to be received in the arcuate-shaped groove of said body portion, a clamp having an arcuate-shaped groove adapted to receive the other of said arcuate-shaped walls, and means for adjustably securing said bracket between said body portion and said clamp.

1,686,962. METHOD OF TESTING VISION. JACOB Z. A. DENINSON, New York, N. Y. Filed May 28, 1921, Serial No. 473,517. Renewed June 5, 1928. 12 Claims. (Cl. 88—20.)



1. A method of testing the refractive power of an eye which consists in causing an object to create a series of images by causing the light rays issuing from said object to be separated by bodies which change the directions of said rays and then moving the said object and said bodies through a series of consecutive positions at each of which the eye of the patient is kept in substantially the same position to view the said series of images.

1,686,963. AERIALS FOR WIRELESS SIGNALING. THOMAS LYDWELL ECKERSLEY, Danbury, Essex, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Nov. 19, 1921, Serial No. 516,286, and in Great Britain Jan. 4, 1921. 7 Claims. (Cl. 250—33.)



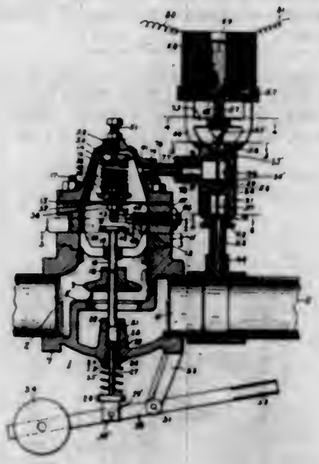
1. An aerial system consisting of the combination of a conductively related aerial, aerial inductance, and screen, said screen being insulated from the earth and composed of a plurality of substantially horizontal wires each of which is of a length at least equal to the height of the aerial above the ground plus the length of the vertical projection of the aerial, and each of which is spaced from the next adjacent wire by a mean distance of between two and four times the height of said screen above the ground, the outer portions of said screen being raised above the remaining portions.

1,686,964. METHOD OF TREATING PLANTS. WILLIAM EGGERT, Jr., Brightwaters, N. Y. Filed Dec. 22, 1924. Serial No. 757,441. 10 Claims. (Cl. 47—58.)

1. The method of treating seed-producing plants to improve their quality and tendencies consisting of supplying to the roots of the plant at its blossoming time a fermented solution of leaves and petals of the same variety of plant, said solution containing a sweetening ingredient, and a derivative of gum benzoin.

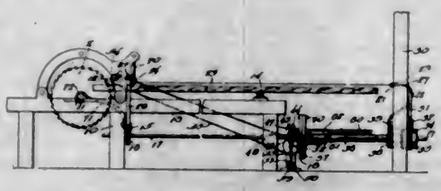
9. Improved products of tobacco plants which have been treated with a derivative of gum benzoin, the products, namely, leaves and seeds being characterized by a constitutional change as compared with products of the original untreated tobacco plants, said improved products being more aromatic, sturdier, more capable of resisting disease, and less bitter than those of the original plants.

1,686,965. SAFETY DEVICE FOR GAS-FIRING SYSTEMS. EUGENE OSCAR ENGELS, Saginaw, Mich., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Oct. 3, 1925. Serial No. 60,319. 19 Claims. (Cl. 67—115.)



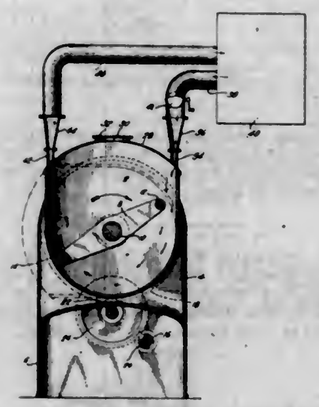
1. A mechanism for cutting off the supply of gas to gaseous fuel burners provided with igniting devices, said mechanism including a normally open valve permitting free flow of gas to said burners, and means for holding the valve normally in open position and for causing the closing of the valve either upon a fall in the pressure of the gas flowing to the burners below a predetermined point or upon the failure of the igniting devices to function.

1,686,966. ATTACHMENT FOR SAWMILL EDGERS. LEMUEL R. FOREMAN, Elizabeth City, N. C. Filed July 18, 1913, Serial No. 779,725. Renewed Feb. 23, 1924. 10 Claims. (Cl. 143—168.)



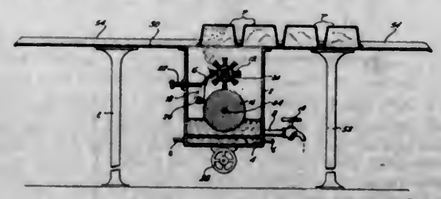
10. The combination with a saw mill edger including fixed and movable saws, an operating shaft, and connections between said operating shaft and the movable saw of the edger, whereby said shaft is adapted to adjust the movable saw with respect to the fixed saw, of a pair of gages associated with the edger, one of said gages being fixed and arranged in alignment with the fixed saw, one end of the other gage being in alignment with the movable saw and adjustable simultaneously therewith when the movable saw is adjusted in relation to the fixed saw, a mounting for the other end of the movable gage, said mounting being adjustable independently of the first-mentioned end of the movable gage, a tubular shaft surrounding said operating shaft, connections between said tubular shaft and said mounting for adjusting the latter, releasable means for locking the operating and tubular shafts together, driving connections for automatically operating the movable saw with respect to the fixed saw during the advancing movement of the board through the edger, and a variable-speed controlling device included in said driving connections.

1,686,967. AIR-COOLING MEANS FOR MIXING DEVICES. LAURENCE S. HARBER, White Plains, N. Y., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Nov. 28, 1923. Serial No. 677,460. 6 Claims. (Cl. 107—31.)



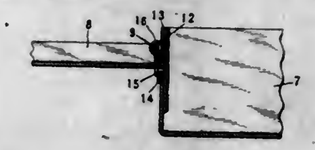
4. A mixing machine having in combination a mixing chamber, a mixing device mounted to rotate on an axis extending in a general horizontal direction within said chamber, means for actuating said mixing device, an air inlet located on one side of said chamber and extending substantially throughout the length thereof, an air outlet located on the opposite side of said chamber and also extending substantially throughout the length thereof, and means for delivering relatively cool air through said inlet into said chamber and for withdrawing the air through said outlet after it has acted upon the material in the chamber.

1,686,968. PAN-GREASING MACHINE. LAURENCE S. HARBER, Saginaw, Mich., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Dec. 22, 1924. Serial No. 757,304. 5 Claims. (Cl. 91—44.)



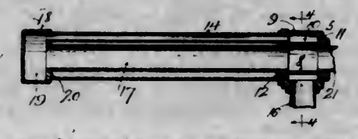
1. A pan greasing machine having in combination a grease container, a grease spraying brush and a pan guideway positioned above said grease spraying brush along which the pans may be passed over said brush and in positions to receive a spray of grease upon the interiors thereof.

1,686,969. SWITCH BOX. GEORGE R. HEBDEN, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Sept. 23, 1925. Serial No. 58,050. 4 Claims. (Cl. 220—31.)



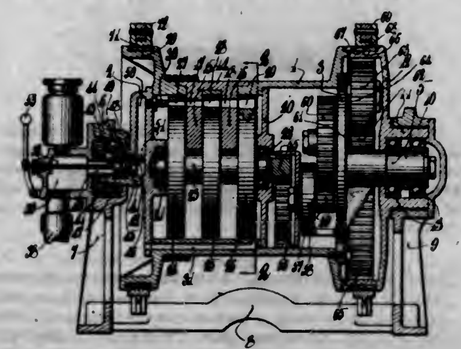
1. A hinge construction including a rectangular box having a hinge slot, a cover for said box having a hinge slot in register with the hinge slot in the box and having an integral hinge pintle adjacent the hinge slot, an entirely preformed hinge strap having one end passing through the respective hinge slots and having an abruptly bent end portion in flat engagement with the inner wall of the box, an arched portion engaging the said pintle and an outer end portion in flat engagement with the outer wall of said box together with means for securing the outer end of said hinge strap in position.

1,686,970. WATER HEATER. ALFRED H. HOADLEY, New York, N. Y. Filed Nov. 28, 1927. Serial No. 236,099. 7 Claims. (Cl. 257—254.)



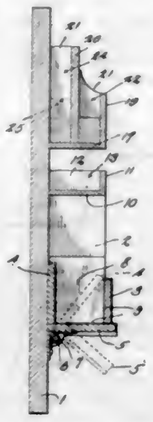
1. A water heater of the type set forth comprising a plurality of spaced headers, a series of relatively small tubes, a common return tube of larger diameter than said first tubes, said several tubes being connected at opposite ends to said headers whereby the water flows first through said smaller tubes and returns in a common stream through said larger tube.

1,686,971. HOISTING MECHANISM. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Corporation, a Corporation of Massachusetts. Filed Jan. 27, 1922. Serial No. 532,338. 15 Claims. (Cl. 254—186.)



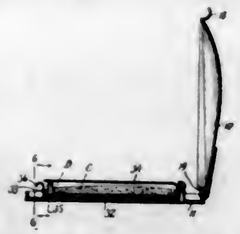
1. In a hoisting mechanism, a rotatable drum, driving means therefor including a turbine with its rotor disposed coaxial of said drum, and means movable with and extending into said drum for directing fluid flow to said turbine.

1,686,972. WALL BRACKET. PATRICK WHITSTEAD HUGHES, Charleston, W. Va. Filed Feb. 3, 1926, Serial No. 85,745. Renewed Aug. 21, 1928. 1 Claim. (Cl. 220—18.)



The combination with a base having a compartment extending forwardly therefrom for receiving trash, of a member hingedly mounted and constituting the bottom of the compartment, a wall upstanding from and movable with the said bottom and normally bearing against the base to constitute a portion of the back wall of the compartment, and yielding means for holding the bottom of the compartment normally closed against the front and side walls of the compartment, the upstanding wall carried by the bottom being movable violently against the front wall when the bottom is swung downwardly to open position, thereby to dislodge material accumulating on said upstanding wall and on the bottom.

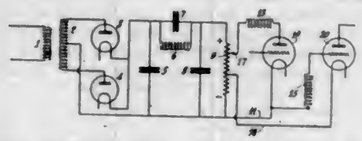
1,686,973. VANITY CASE. WILLIAM G. KENDALL, Newark, N. J. Filed Sept. 6, 1927. Serial No. 217,605. 4 Claims. (Cl. 132—82.)



1. In a vanity case, the subcombination of a compartment adapted to hold a cake of cosmetic, an ejector located in the said compartment and tiltable therein, said ejector having a projection extending through a slot in the wall of the said compartment, said slot being closed at the top thereof.

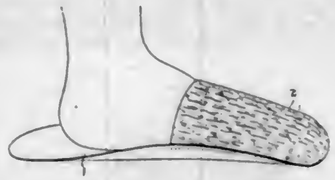
1,686,974. RECTIFYING AND FILTERING SYSTEM. FRED H. KROGER, Brooklyn, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Feb. 6, 1925. Serial No. 7,229. 2 Claims. (Cl. 250—27.)

1. In a direct current supply system for vacuum tubes and the like, the combination of a source of power adapted to be energized by alternating current, means for rectifying said alternating current, means for smoothing out fluctuations in said rectified current comprising a filter, a resistance connected across the output side of said filter, a vacuum tube, a plate circuit and filament return therefor tapped across one portion of the resistance, a second vacuum tube and a grid filament circuit therefor tapped



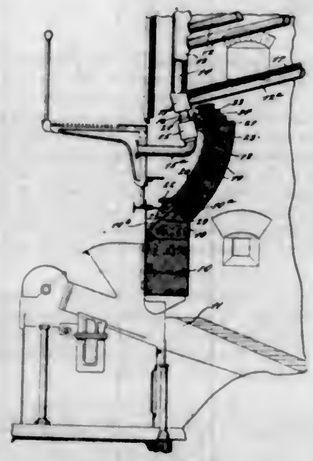
across another portion of said resistance the grid being energized at the same potential as the filament return of said first named tube.

1,686,975. SANITARY SANDAL. FREDERICK O. LAWSON, Toronto, Ontario, Canada. Filed Aug. 15, 1927. Serial No. 213,090. 3 Claims. (Cl. 36—1.)



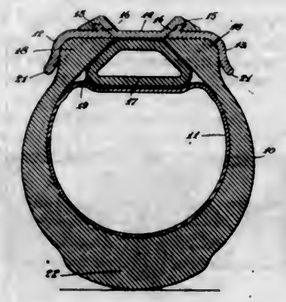
1. A sanitary sandal having a sole portion formed of a flexible fabric, and an upper formed of a unitary piece of extensible fabric placed flat upon the toe end of the sole and secured around the edges.

1,686,976. FURNACE WALL. NATHAN E. LEWIS, Plainfield, and HOWARD J. KERR, Bayonne, N. J., assignors to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 29, 1920. Serial No. 385,118. 62 Claims. (Cl. 110—95.)



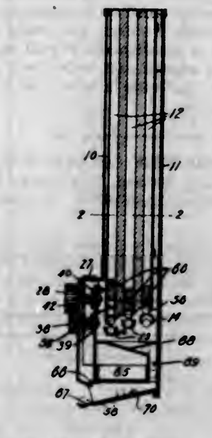
1. In a furnace for a steam boiler, a relatively fixed wall and an auxiliary wall extending upwardly from the fixed wall and inclined to the vertical with its top substantially horizontal, said auxiliary wall comprising a series of metallic supports extending upwardly along the auxiliary wall and tile attached to the supports with the tile between the furnace and the supports, said tile being free to move longitudinally of said supports with the lowermost tile abutting against the fixed wall.

1,686,977. PNEUMATIC TIRE. ZENO LITTMAN, New York, N. Y. Filed Dec. 20, 1924. Serial No. 757,098. 1 Claim. (Cl. 152—22.)



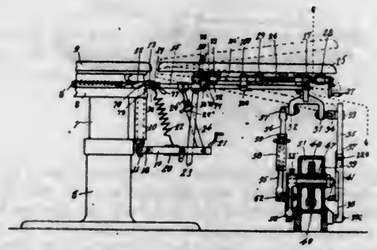
In a device as specified, the combination of a tire supporting rim having rim flanges thereon, a pneumatic tire shoe supported on said rim, a pneumatic tube within said shoe, a valve for said tube, and a supplemental tire mounted on the tire supporting rim to project beyond the peripheries of the rim flanges to thereby protect the pneumatic tube and shoe from injury, when collapsed, by the rim, said supplemental tire having terminal portions arranged to lie in close adjacency to opposite sides of the valve for the pneumatic tube, one of said terminal portions being provided with an inflation valve, and means connected to the terminal portion carrying the inflation valve and extending transversely across the end of the inflation valve for preventing contact of said valve with the pneumatic tube.

1,686,978. COIN-CONTROLLED VENDING MACHINE. HANS K. LORENTZEN, New York, N. Y. Filed July 25, 1923. Serial No. 653,653. 8 Claims. (Cl. 312—83.)



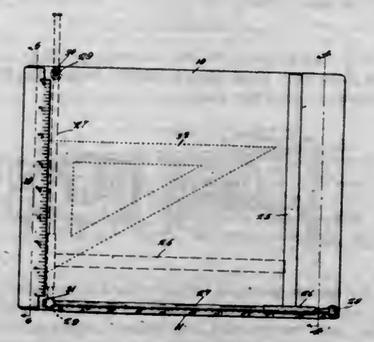
1. In an article dispensing device, a plurality of vertically extending article storage spaces, an article support for each of said article storage spaces normally supporting the articles therein and movable to constitute a releasing device at the lowermost extremity of each storage space for releasing one article therefrom at a time, a push rod actuating member for each device, the ends of the push rods remote from the devices being arranged in an arcuate disposition, and a master push rod having an arm angularly adjustable for cooperative relation with any of said push rods for actuation of the corresponding releasing device.

1,686,979. TREATMENT TABLE. JOHN V. MCMANIS, Kirksville, Mo. Filed Sept. 14, 1922. Serial No. 588,267. 5 Claims. (Cl. 128—170.)



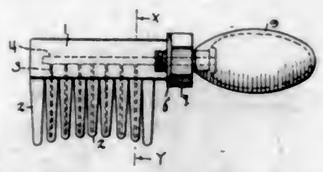
1. A table of the class described comprising a main table top section, an auxiliary table top section pivotally mounted near one end thereof relative to said main top section upon a substantially vertical axle and upon a substantially horizontal axle and adapted to be oscillated in both horizontal direction and in vertical direction relative to said main top section, means to actuate said auxiliary top section by power comprising a power driven shaft located beneath said auxiliary top section and provided with crank arms and variably adjustable crank pins at opposite ends of said shaft, a lever pivotally connected at a fixed point at one end and pivotally and slidably connected at its opposite end to said auxiliary top section near its free end to oscillate said auxiliary top section in a substantially horizontal direction, said lever being engaged at an intermediate point by a crank pin at one end of said shaft to oscillate said lever, and a connecting member connected at one end to the crank pin at the opposite end of said shaft and at its opposite end to said auxiliary top section near its free end to oscillate said auxiliary top section in a vertical direction.

1,686,980. DRAWING BOARD AND ATTACHED STRAIGHTEDGE. CLAUDE C. NUCKOLS, Menands, N. Y. Filed July 26, 1927. Serial No. 208,650. 2 Claims. (Cl. 33—76.)



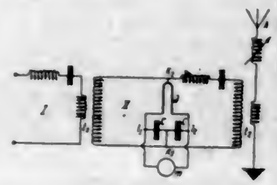
1. In combination, a drawing board, a straight edge permanently secured along one edge of the board, a combined straight edge and clamp secured to the adjacent edge of the board and adapted to hold a sheet of paper in position thereon, said board having spaced openings, a pair of headed studs, a guide rod supported by said studs, an additional straight edge slidably mounted on said rod, and said studs being adapted for interchangeable engagement with said openings, whereby said rod can be arranged parallel with either of the first mentioned straight edges.

1,686,981. SCALP COMB. OSCAR O. OLSON, Chicago, Ill. Filed Sept. 22, 1926. Serial No. 137,126. 1 Claim. (Cl. 132—13.)



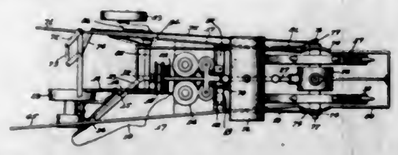
A comb of the class described comprising a back having a duct therein enlarged and threaded at one end of the back, teeth extending from the said back and having ducts therein communicating at their upper ends with the duct in the back, a coupling having a shank removably threaded into the enlarged end of the duct in the said comb back and provided at the outer end with a bead, the coupling having a polygonal enlargement extending beyond all sides of said back, a washer upon the shank between the said end of the back and the enlargement, and a bulb fitted to the outer end of the coupling and held thereon by the bead.

1,686,982. TELEPHONY OR KEYING ARRANGEMENT. MENDEL OSNOS, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Oct. 22, 1925, Serial No. 64,246, and in Germany Nov. 15, 1924. 10 Claims. (Cl. 179—171.)



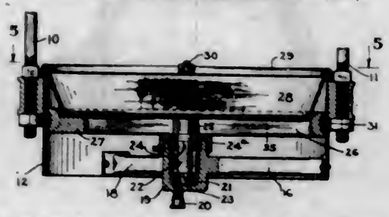
1. In combination, an iron core frequency changer modulator, a voltage step-up transformer for introducing high frequency into the modulator and a voltage step-down transformer for transferring energy output from the modulator to a load circuit.

1,686,983. TRACTOR PLOW. JOSEPH N. PARKER, Bedford City, Va. Filed May 3, 1920. Serial No. 378,563. 4 Claims. (Cl. 180—19.)



1. A tractor plow as characterized comprising a plurality of tractor wheels; a frame; means pivotally connecting said wheels and said frame; manually actuated means for pivoting said wheels; a prime mover mounted on said frame; a transmission mechanism operatively connecting said wheels and said prime mover, said mechanism embodying a rotary driving member and two rotary driven members constantly engaged with said driving member, said driven members being loosely mounted on the driving shaft of said transmission mechanism; and means manually operated for operatively connecting said driven members successively with said shaft, said means embodying a plurality of expansion bands, each operatively disposed in one of said driven members, both of said bands being operatively associated with the driving shaft of said transmission mechanism; a shifting wedge adapted for insertion below said bands to expand the same; and power devices intermediate said bands and said shifting device for multiplying the power applied in setting said bands.

1,686,984. VIBRATOR OR AGITATOR. GEORGE B. PICKOP, New Haven, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn. Filed Dec. 26, 1922. Serial No. 609,037. 13 Claims. (Cl. 209—367.)



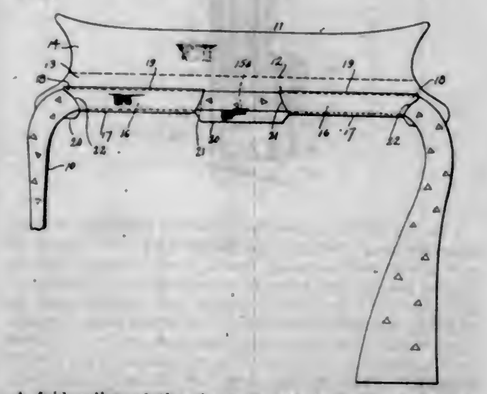
1. In an agitator, a frame, including a circular housing, an agitating rotor rotatably mounted within the housing having its periphery formed to present blades and means to direct a fluid under pressure upon said blades and in a downward direction.

1,686,985. FLUSH-TANK VALVE. ROBERT M. PIERSON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 11, 1927. Serial No. 160,400. 3 Claims. (Cl. 4—56.)



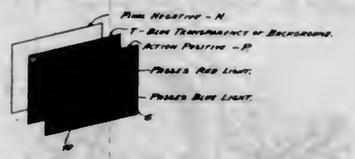
1. A flush-tank valve of resilient rubber composition including a lower or seating member which is relatively thickened annularly thereof in its upper marginal portion, an upper or roof member, and an intermediate, relatively thin and flexible annular member, the height of which is a small fraction only of the diameter of said upper member, connecting the outer edge of said upper member with the thickened margin of the lower member, within the onter periphery of the latter.

1,686,986. COMBINED COLLAR AND NECKTIE HOLDER. WILLIAM POLGAR, New York, N. Y. Filed Dec. 31, 1926. Serial No. 158,177. 1 Claim. (Cl. 2—137.)



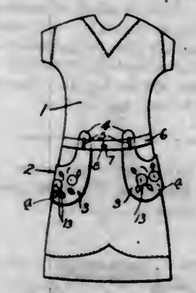
A fold collar of the character set forth, comprising a neckband and an outer member over the neckband, said neckband having a pair of integral folded tongues formed by cutting through the lower edge of the neckband, the lower edge of the neckband at the front ends of the collar being below the fold line of said tongues, each of said tongues extending at one of its side portions in proximity to a front end of the collar, and at the other side portion in proximity to the rear center part of the neckband.

1,686,987. METHOD OF MAKING COMPOSITE PICTURES. ROY J. POMEROY, Los Angeles, Calif., assignor of one-half to Famous Players-Lasky Corporation, Los Angeles, Calif., a Corporation of New York. Filed Feb. 7, 1927. Serial No. 166,303. 5 Claims. (Cl. 88—16.)



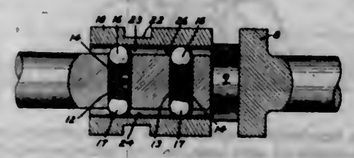
1. A method of producing a composite photograph embodying images of two components, that includes making on a limited area of a ground an image of one component, coloring the image area substantially uniformly in a selected color to transmit substantially only light of that selected color, and coloring the surrounding ground substantially uniformly in a color having a minus relation to the selected image color so that the ground will transmit predominately light of said last mentioned color, making an image of the other component, and selectively printing the two components onto different parts of a fresh actinic surface with printing lights of the two said colors.

1,686,988. ORNAMENTATION FOR WASH DRESSES. HELEN LOUISE RAY, Los Angeles, Calif. Filed Feb. 23, 1927. Serial No. 170,252. 3 Claims. (Cl. 2—247.)



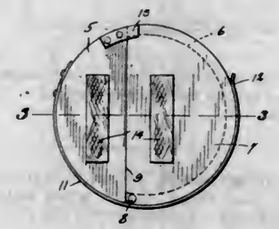
1. An ornamental pocket attachment for dresses comprising a belt having means for detachably securing the same to a dress, and a pair of spaced pockets disposed below the belt and respectively having a projection extending upwardly from one side thereof and connected to said belt.

1,686,989. CLUTCH. GRAHAME B. RIDLEY, San Francisco, Calif. Filed Jan. 18, 1926. Serial No. 81,919. 2 Claims. (Cl. 192—67.)



1. A clutch comprising two axially aligned shafts, a collar rotatably mounted on the first shaft and adapted to be axially shifted to engage the second shaft, said collar being provided with interior longitudinal grooves, spring pressed balls mounted on said first shaft and adapted to seat in said grooves, and means cooperating with said balls for resisting axial shifting of said collar.

1,686,990. STOCK CASTRATOR. OTLEY B. ROSS, Novinger, Mo. Filed Dec. 23, 1927. Serial No. 242,086. 2 Claims. (Cl. 128—306.)



1. In a device of the character described, a body portion to be worn over the scrotum of an animal, said body portion including a stationary blade and a movable blade, and means engaging the movable blade to exert a gradual pressure on the movable blade to cut the scrotum held between the blades.

1,686,991. CAR BUMPER. KARL O. SCHAUMAN, STIRLING R. YANCEY, and JOSE L. MIFSUD, New York, N. Y., assignors to Sure-Guard Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1927. Serial No. 225,466. 6 Claims. (Cl. 293—55.)



1. A car bumper comprising a base bar, a resilient bracket extending lengthwise of the bar attached thereto at the end portions and adapted for attachment to a car, and a guard member spaced apart from and extending generally parallel with the base, the end portions of the guard member being formed into loops extending around and spaced from the ends of the base, the terminals of the guard member being secured to the back of the base.

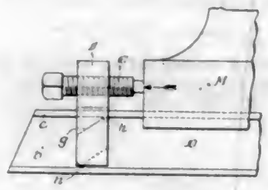
1,686,992. PROCESS OF MAKING TETRA-NITRO-DIANTHRONE. BERTHOLD STEIN, Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 28, 1926, Serial No. 119,200, and in Germany June 25, 1925. 4 Claims. (Cl. 260—57.)

4. As a new compound, tetra-nitro-dianthrone in which the nitro groups are attached in a beta position, which is obtained in the form of colorless crystals difficultly soluble in concentrated sulfuric acid and in most organic solvents and which by weak alkaline agents is transformed into salts of the isomeric tetra-nitro-dianthranol.

1,686,993. MACHINE MOUNTING. PHILIPP SUTER, Baden, Switzerland, assignor to A. G. Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Apr. 2, 1926, Serial No. 99,247, and in Germany May 14, 1925. 2 Claims. (Cl. 308—11.)

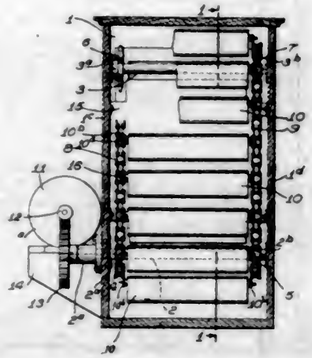
1. A machine mounting comprising, in combination, a bed rail, a machine frame shiftably mounted thereon, an

anchor block shiftably mounted on the rail, said anchor block having binding portions for biting engagement with



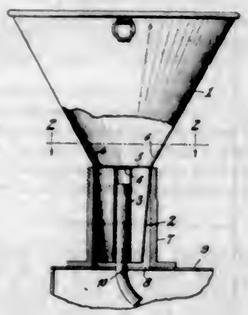
the rail, and an adjustable member cooperating with the machine frame to hold the binding portions in fixed engagement with the rail.

1,686,994. CHANGEABLE ADVERTISING SIGN. LEE THOMPSON, San Diego, Calif. Filed Oct. 29, 1926 Serial No. 144,937. 3 Claims. (Cl. 40—97.)



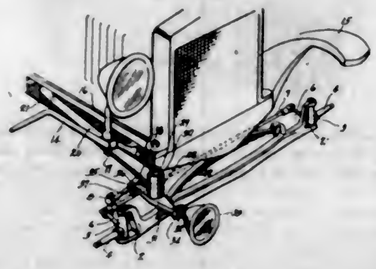
1. In a unit member of a plurality of panels forming a movable group in an advertising cabinet, two blackboard faced display surfaces, channel members secured to the margins thereof, forming grooves for supporting one or more independent display members over said blackboard surfaces and studs projecting from each end of said panel for pivotally suspending same.

1,686,995. FUNNEL. GEORGE B. TRAPNELL, Chester, Pa. Filed Apr. 8, 1926. Serial No. 100,631. 1 Claim. (Cl. 226—29.)



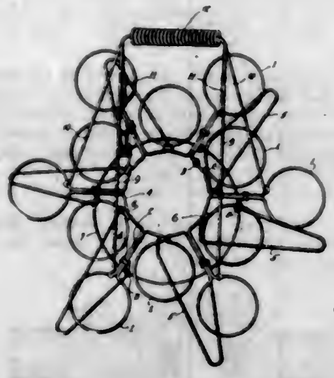
A funnel for filling automobile radiators comprising a tapered body portion and a tapered spout joined together, a longitudinally disposed inner tube mounted within the spout and having its ends flush with the respective ends of the spout, the outer or lower end of the said tube being open to receive the free end of an overflow tube and the inner or upper end of the same being closed to prevent water from entering said overflow tube, and a cross bar terminally attached to the opposite sides of said body portion and centrally connected to the closed end of the inner tube to support the same.

1,686,996. DIRIGIBLE SPOTLIGHT FOR AUTOMOBILES. WILLIAM V. VAN ETTEN, Everett, Wash. Filed Nov. 3, 1925. Serial No. 66,483. 1 Claim. (Cl. 240—62.)



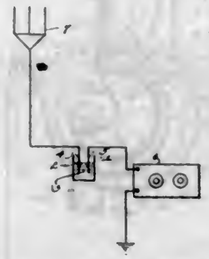
In a vehicle of the character described having a steering mechanism and a side beam with a fender mounting brace bar fixed thereto and extending laterally from the beam and a headlight mounting standard having a threaded lower end extending through the said brace bar, of an elongated bar disposed adjacent the side beam, an ear at the rear end of said bar adapted for attachment to the beam; said bar having an aperture therethrough near its forward end adapted to receive therein the threaded end of the standard, a vertical bearing sleeve at the forward end of the bar, a shaft rotatably contained in the sleeve, an arm fixed between its ends to the lower end of the shaft, means for mounting a spotlight at the forward end of the arm and a link connecting the rear end of the arm with the vehicle steering mechanism.

1,686,997. EGG HOLDER. HEINRICH HUBERT WEBER, Maspeth, N. Y. Filed Jan. 19, 1928. Serial No. 247,797. 4 Claims. (Cl. 53—1.)



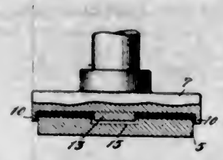
1. An egg holder embodying a frame constructed from a single length of wire bent to form a succession of closed loops constituting egg seats with the free ends of the wire united to one another, each loop being provided with a shank which constitutes a continuation of the shanks of the adjacent loops, and all parts of said frame lying in the same plane, in combination with supporting members embodying lengths of wire bent upon themselves to form feet and the free end portions of which wires are bent upwardly and coiled about the shanks of the frame loops for the purpose of maintaining said loops in closed condition and simultaneously supporting the frame above a flat surface on which the feet are adapted to rest, and a suitable handle secured to the frame.

1,686,998. METHOD OF REMOVING STATIC. CHARLES W. WOODRUFF, Columbus, Ohio. Filed Feb. 4, 1925, Serial No. 6 813. Renewed Feb. 11, 1928. 3 Claims. (Cl. 250—20.)



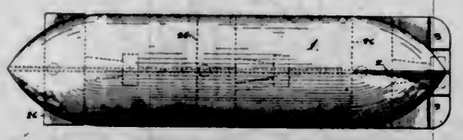
2. In combination with a signal receiving circuit, an electrolytic cell serially associated with a portion of said circuit traversed by both desired signals and also by impulses above a desired intensity, the elements comprising said cell being of such chemical relation as to materially increase the resistance of said circuit portion in response to said impulses.

1,686,999. METHOD OF MAKING SHIMS. JOHN CLIFFORD YONDON, Queens Village, N. Y., assignor to Laminated Shim Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Mar. 19, 1923. Serial No. 625,960. 3 Claims. (Cl. 153—10.)



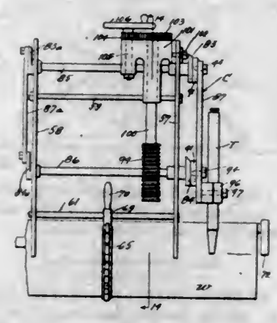
1. The herein described method of making shims which consists in providing a plurality of flat superposed sheets of the same size and binding said sheets together by simultaneously bending the edges thereof through an angle of substantially 45 degrees into overlapping relation.

1,687,000. AIRSHIP. JOAQUIN SILVEIRA ABREU, San Francisco, Calif. Filed Apr. 12, 1927. Serial No. 183,113. 6 Claims. (Cl. 244—6.)



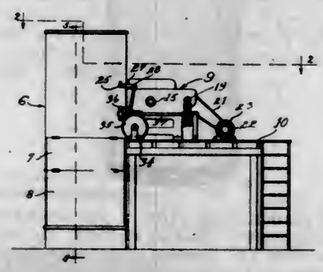
1. The combination of an air ship, comprising a dirigible balloon, of a plurality of aeroplanes detachably, pivotally and rotatably connected to said balloon whereby the same may be propelled and controlled by said aeroplanes, and said aeroplanes may be detached from and operated independently of said balloon; and means for rotating each aeroplane on a vertical axis relatively to the balloon and independently of the other aeroplanes, to facilitate control of said dirigible balloon.

1,687,001. TORCH-OPERATING MECHANISM. JAMES ORRIN BISHOP, Torrance, Calif. Filed Sept. 22, 1926. Serial No. 137,159. 11 Claims. (Cl. 266—23.)



1. A device of the character described, embodying a body member, means for supporting work of given variational cross-sectional characteristics in predetermined relation to the body member, a cutting torch movably mounted on the body member, and means acting automatically to move the torch across the thicker portions of the work with less speed than across the thinner portions.

1,687,002. MATTRESS-MAKING APPARATUS. JOSEPH W. BOWERSOX, Los Angeles, Calif. Filed Sept. 1, 1927. Serial No. 216,831. 5 Claims. (Cl. 19—144.)

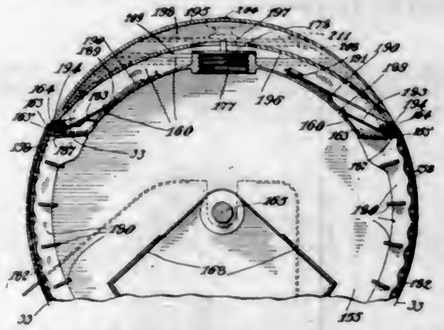


1. A mattress-making apparatus comprising a box, a passage for cotton communicating with the interior of the box through one wall thereof, a means to feed cotton through the passage, a movably mounted deflector in the box adjacent to the passage, and a means to move the deflector into different positions to distribute the cotton in the box as it leaves the passage, the deflector extending substantially to said box wall at a level higher than the discharge end of the passage so as to deflect the cotton downwardly.

1,687,003. STENCIL DUPLICATING MACHINE. ERNEST J. BRASSEUR, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 8, 1925, Serial No. 61,172. Divided and this application filed Nov. 2, 1926. Serial No. 145,760. 18 Claims. (Cl. 101—116.)

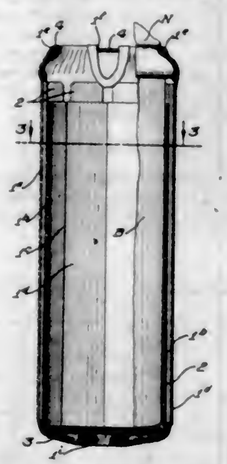
1. In an apparatus of the character described, in combination, a printing cylinder including outside walls,

interior walls, a diaphragm secured to said interior walls in a leak-proof manner, a plate secured to said interior walls



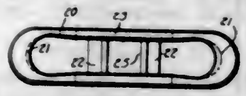
and to the ends of said diaphragm in a leak-proof manner, and a supplementary frame covering said plate and removably secured to said outside walls.

1,687,004. NURSING-BOTTLE COVER AND NIPPLE SUPPORT. MARIE BRIGGS, San Diego, Calif. Filed Dec. 16, 1926. Serial No. 155,187. 3 Claims. (Cl. 215—11.)



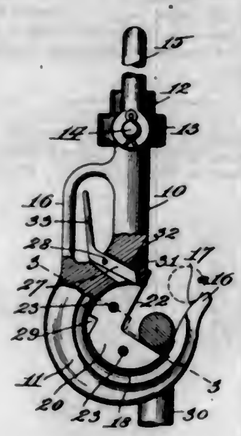
1. In a nursing bottle cover, a pair of bag-like cover members composed of pliable material, the one placed within the other and provided with longitudinal stitches forming a plurality of pockets, a plurality of semi-flexible reinforcing members positioned in said pockets, and a cord positioned around the upper end adapted to gather the upper end around the bottle nipple.

1,687,005. CONVEYER CHAIN. CLARENCE A. BROCK, Detroit, Mich. Filed Feb. 25, 1927. Serial No. 170,793. 2 Claims. (Cl. 198—189.)



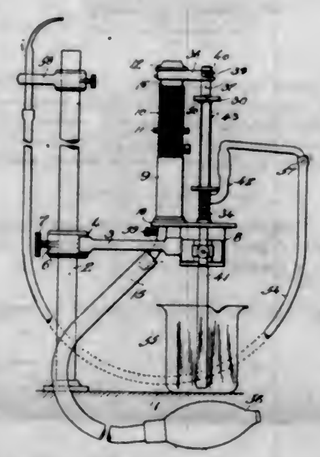
2. A chain comprising a link consisting of an elongated loop having its inner end surfaces formed with spherical concave seats, and integral cross bracing members between the sides of said loop, said sides and cross members defining a square seat adapted to receive a squared portion of an accessory device.

1,687,006. LATCHING HOOK FOR OIL-WELL ELEVATORS. WESLEY F. CORNELIUS, Whittier, Calif. Filed Jan. 12, 1927. Serial No. 160,617. 4 Claims. (Cl. 24—241.)



1. A latching hook of the character described, comprising a shank, a hook formed integral with one end of said shank, a notched latching member arranged for rotation within the hook, a handle formed integral with said shank and hook, there being an opening formed thru the hook at the point where the same joins the shank, a spring pressed detent extending thru said opening and pivotally mounted therein for engaging and holding the rotary latching member in closed position and a handle formed integral with and projecting upwardly from the rear end of said detent, which handle is arranged between the handle of the hook and the shank thereof.

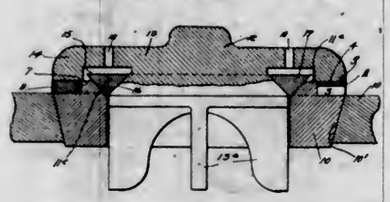
1,687,007. AUTOMATIC DISTRIBUTING APPARATUS FOR LIQUID. LEON H. CORNWALL and GEORGE PHILIPP SCHMITT, New York, N. Y. Filed Apr. 8, 1922. Serial No. 550,922. 3 Claims. (Cl. 221—103.)



1. An apparatus for distributing liquids having in combination a liquid measuring and distributing member comprising a main stem and a substantially lateral branch

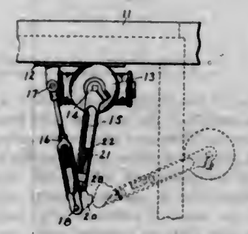
stem, a piston mounted to reciprocate in said main stem, valves controlling the opening of the main stem and the branch stem, and means to operate said piston to definite set distances, said means including a power cylinder having a regulating stop ring and a power piston operating in said power cylinder to the distances determined by the position of the stop ring.

1,687,008. PUMP VALVE. GROVER C. DEAKINS, Anaheim, Calif. Filed Sept. 30, 1925. Serial No. 59,504. 2 Claims. (Cl. 277—44.)



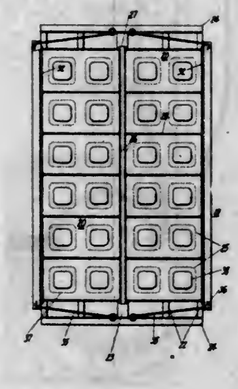
1. In a valve, a relatively stationary part including a relatively soft seat member, a movable valve body, a relatively soft sealing member carried by the body, and a detachable relatively hard member having tight fit on the the stationary part and underlying the valve body, said relatively hard member having a relatively frangible portion adapted to be broken away to relieve the last-mentioned member from its tight fit with the stationary part, said body being adapted to seat on said hard member, and said sealing member being adapted to seat on the body and stationary part.

1,687,009. DETENT MECHANISM FOR DOOR CLOSERS AND THE LIKE. JOSEPH J. DREXLER and HENRY H. MUNSON, New Haven, Conn., assignors to Sargent & Company, New Haven, Conn. Filed Nov. 4, 1925. Serial No. 66,754. 9 Claims. (Cl. 16—49.)



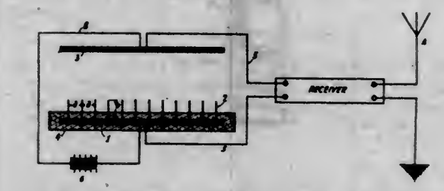
1. A door closer, including a pair of pivoted arms, and automatically operating means to releasably hold said arms in predetermined angular relation, comprising a detent member rigidly attached to one of said arms and a cooperating detent member movably attached to the other arm, said last named detent member being spring pressed into engagement with the first, and means for adjusting the tension of said spring.

1,687,010. MULTIPLE MOLD. STEPHEN FLAM, Walnut Park, Calif., assignor to Supertile Machinery Corporation, Los Angeles, Calif., a Corporation of California. Filed Jan. 4, 1926. Serial No. 79,158. 2 Claims. (Cl. 25—121.)



1. In a mold structure, an apertured plate forming the bottom of a mold, means forming the sides of the mold, including a pair of loosely anchored plates, and a detachable apertured plate inserted between the said bottom apertured plate and said loosely anchored plates, for permitting any desired smaller size of core to be used than that corresponding to the aperture in the said bottom plate.

1,687,011. LOUD SPEAKER. LIONEL FLEISCHMANN, Berlin-Wilmersdorf, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany, a Corporation of Germany. Filed Nov. 13, 1926, Serial No. 148,183, and in Germany Jan. 22, 1926. 10 Claims. (Cl. 179—113.)

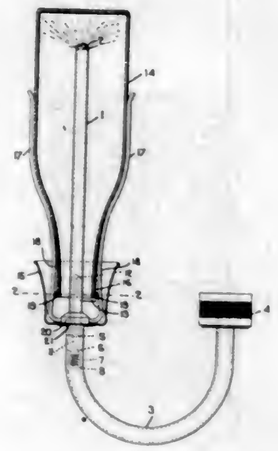


1. The method of reproducing sound which comprises superimposing a variable potential of audio frequency upon a definite potential bias at a point, obtaining thereby an electrostatic point discharge into the atmosphere and creating by said electrostatic point discharge trains of sound waves varying in proportion to the varying audio potential.

1,687,012. BOTTLE WASHER. MICHAEL J. FORTH, Dorchester, Mass. Filed Apr. 2, 1927. Serial No. 180,451. 7 Claims. (Cl. 141—7.)

1. In a bottle washer, the combination with a spray pipe having jet openings at its end and an opening between its ends, of a valve controlling the flow through said pipe,

a valve stem connected to said valve and projecting through said opening, the projecting portion of said valve stem constituting a finger adapted to be engaged by the neck



of a bottle which is placed over the spray pipe, whereby pressure of the bottle against said finger will open the valve.

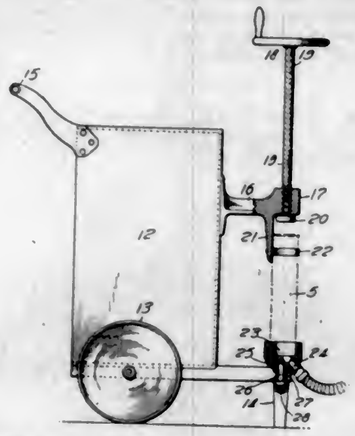
1,687,013. ARMORED ELECTRIC CABLE. OTTO A. FREDERICKSON, Wethersfield, Conn., assignor to National Electric Products Corporation, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 7, 1927. Serial No. 238,356. 10 Claims. (Cl. 173—267.)



1. An armored electric conductor comprising, an insulated wire, a protecting covering of insulating material surrounding the insulated wire, a metallic sheath or jacket enclosing the protecting covering and insulated wire, and a bushing interposed between the insulated wire and the metallic sheath or jacket to protect the wire insulation from the edge formed at the end of the metallic sheath or jacket.

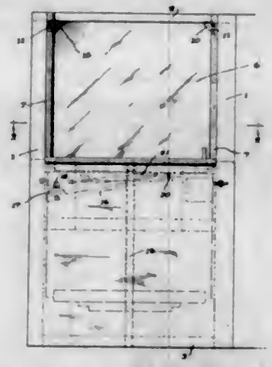
1,687,014. APPARATUS FOR DISPENSING LUBRICANTS. FREDERICK D. GATCHELL, New York, N. Y. Filed June 16, 1926. Serial No. 116,433. 1 Claim. (Cl. 221—47.1.)

Apparatus for dispensing grease from original containers, comprising, in combination, a main support, auxiliary supports for receiving a grease container and centering it with relation to devices for operating on it, one of said auxiliary supports being a cup shape element constituting a discharge nozzle for the container, a spring retracted device operatively mounted in said cup shape



element for piercing the container, means for operating said device, and means operatively mounted in the other auxiliary support for forcing the grease towards the nozzle.

1,687,015. WINDOW CONSTRUCTION. BERTRAM J. GOLDSMITH and EMIL KOEB, New York, N. Y., assignors to Perfect Window Regulator Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed May 28, 1925. Serial No. 33,379. 3 Claims. (Cl. 296—48.)

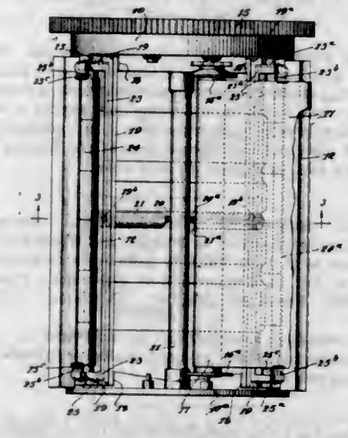


3. In a device of the character described, a frame, channel members mounted on the sides of said frame, a window extending within said channel members, spring devices carried by corners of said window and slidably engaged within said channel members, an additional channel member within said frame and a spring element fastened to the lower edge of the window substantially centrally thereof and frictionally and slidably engaged within said additional channel member.

1,687,016. MEANS FOR CONTROLLING THE TRAVEL OF THE INK RIBBON USED WITH ROTARY PRINTING MACHINES. CHARLES FREDERICK GREEN, Romford, England, assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 16, 1926, Serial No. 135,722, and in Great Britain Jan. 15, 1926. 3 Claims. (Cl. 101—336.)

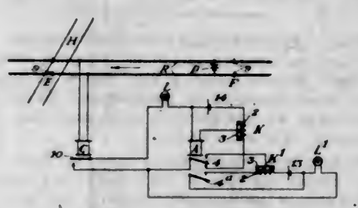
3. The combination with a printing machine of the character described, including a type carrying drum, an

ink ribbon disposed over the type, and spools for the ribbon, of means for maintaining the ribbon in alignment with said spools as it travels from one to the other, said means including a guide roller slightly longer than the width of the ribbon, rotatably mounted on a frame pivoted midway between its ends to the drum at right angles to the axis of the frame and radially to the drum, whereby the roller



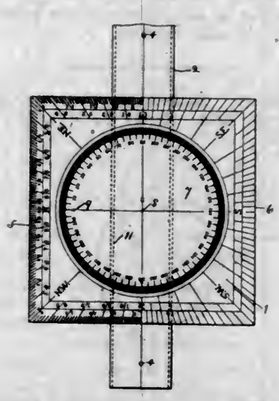
may swing in either direction out of parallel with the axis of the cylinder, and a plate on each end of the frame overhanging and almost touching the extremity of the roller in the frame, whereby when the ribbon deviates toward one side of the drum it engages between an overhanging plate and the roller to pivot the roller, the roller thereupon acting to move the ribbon into normal alignment with said spools.

1,687,017. APPARATUS FOR CAUSING INTERMITTENT OPERATION OF ELECTRORESPONSIVE DEVICES. LARS O. GRONDAHL, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 27, 1922. Serial No. 590,855. 1 Claim. (Cl. 1770—347.)



In combination two electric lamps, an electromagnetic relay having front and back contacts; a circuit including a source of current, the first lamp, a back contact of said relay and the heating element of a thermo-sensitive device; a circuit for said relay including a source of current and the thermo-sensitive element of said device; a second thermo-sensitive device; a circuit for the heating element of said second device including a source of current and a front contact of said relay; and a circuit including said second lamp, a source of current, the thermo-sensitive element of said second device, and a second front contact of said relay; whereby a time interval occurs between the extinguishing of the first lamp and the lighting of the second lamp, which time interval is determined by the characteristics of the second thermo-sensitive device.

1,687,018. NAUTICAL POSITION FINDER. CHARLES GEORGE GUY, Vancouver, British Columbia, Canada. Filed July 6, 1926. Serial No. 120,847. 1 Claim. (Cl. 33—1.)



A navigational instrument of the type described comprising, a rigid square flat transparent member having angular divisions indicated on the surface adjacent its periphery, said angular divisions on one half of the periphery corresponding to the divisions of the mariner's compass, concentric circular lines on the surface of and centrally disposed on said square member, said concentric circular lines being angularly subdivided by radial lines, a rigid and relatively long flat rectangular and transparent member of the nature of a flat ruler centrally connected to said square member, a shallow recess in the underside of said square member adapted to receive in slidable relation said flat ruler member whereby when said ruler member is rigidly positioned upon a chart the said square flat member may be slidden along it to any desired position thereupon.

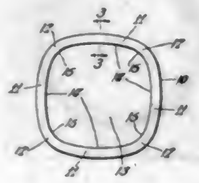
1,687,019. LAVATORY FIXTURE. AUGUST W. HALLBERG, Waterbury, Conn., assignor to Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed July 8, 1925. Serial No. 42,156. 1 Claim. (Cl. 45—38.)



In a lavatory fixture, the combination with a post-member, of a socket-member applied to the upper end thereof, a holder carried by and overhanging the latter, the said post-member being formed at its upper end with

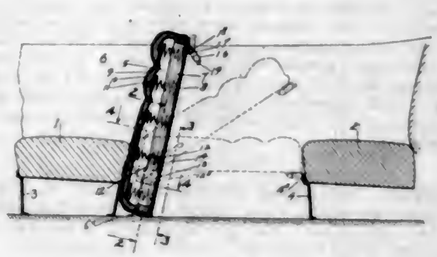
a bifurcated stem encircled by teeth parallel with the axis of the said post-member, and a chamber in said socket-member shaped to correspond to the upper end portion of said post-member, whereby said bifurcated portion is received, compressed, and maintained under compression in said chamber and provided with a complementary series of teeth parallel with its axis for engagement with the teeth of the post-member, whereby the said post-member and socket-member may be joined in a plurality of relative, rotary positions in any one of which they will be positively held against relative rotation by the said teeth and in which they will be frictionally held against being drawn apart by the co-action of the bifurcated stem with walls of the said chamber.

1,687,020. RING. MILTON H. HERZOG, Chicago, Ill. Filed Apr. 23, 1923. Serial No. 634,078. 2 Claims. (Cl. 63—15.)



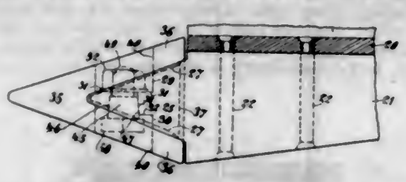
2. A finger ring having a four-sided finger receiving opening defined by pairs of oppositely arranged oppositely curved wall portions of comparatively slight curvature connected integrally by wall portions of sharper curvature.

1,687,021. CONVERTIBLE AUTOMOBILE BODY. OLIVER E. HORNER, San Diego, Calif. Filed May 25, 1925. Serial No. 32,629. 3 Claims. (Cl. 155—7.)



1. In a convertible automobile body structure, front and rear seat members, supports for said seat members, a pair of tubular back supporting and hinge members supported on the floor of the automobile behind said front seat member and extending upwardly from said floor, a back member positioned behind said front seat member with a portion thereof extending above and the other portion thereof extending below the same and positioned over said supporting and hinge members, and longitudinally slotted hinge members secured in the lower portions of and within said back member, said slotted hinge members being pivotally connected to the upper ends of said supporting and hinge members and extending into the tubular portions thereof when said back member is in a back supporting position, said back member being vertically slotted at the lower portion of its back wall behind the hinge members mounted therein, the slotted portions of said back member being adapted to receive the supporting and hinge members mounted on the floor when said back member is shifted to a vertical position.

1,687,022. TOOTH FOR EXCAVATING SHOVELS. WILLIAM T. HULSIZER, Clinton, N. J. Filed July 2, 1926. Serial No. 120,081. 4 Claims. (Cl. 37—142.)

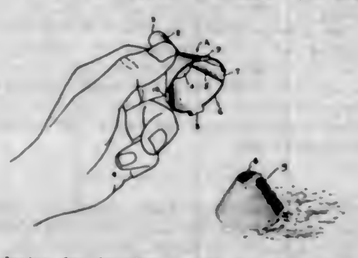


1. In a tooth of the character described the combination of a body portion having a tapered nose, a point having tapering members located upon said nose, a connecting brace for said members, a locking lug having a tapered face extending from said brace and a key adapted to engage said nose and the tapered face of the locking lug to detachably lock said point to said nose.

1,687,023. DYNAMITE COMPOSITION. NORMAN G. JOHNSON and SAMUEL G. BAKER, Jr., Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 18, 1927. Serial No. 206,783. 13 Claims. (Cl. 52—11.)

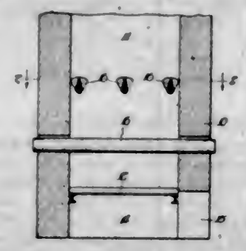
1. An explosive composition characterized by its low density which comprises a liquid explosive ingredient and ground popped corn.

1,687,024. DEVICE FOR FORMING GOLF TEES. MATTHEW J. KEEVERS, Northampton, Mass. Filed Aug. 19, 1927. Serial No. 213,995. 3 Claims. (Cl. 273—33.)



1. A device for forming a golf tee of sand or other earthy material comprising a cup in which the tee is to be molded, said cup having means associated therewith for forming a groove in the side of the molded tee.

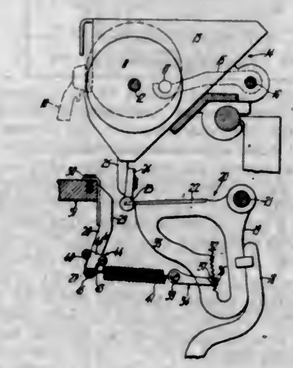
1,687,025. ELECTRICALLY-HEATED KILN. GOTTLIEB KELLER, Brugg, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Dec. 13, 1926. Serial No. 154,448, and in Germany Jan. 6, 1926. 2 Claims. (Cl. 266—1.5.)



1. In apparatus of the character described, means providing a vertically-disposed heating chamber, heat-radiating elements disposed within said chamber and supported

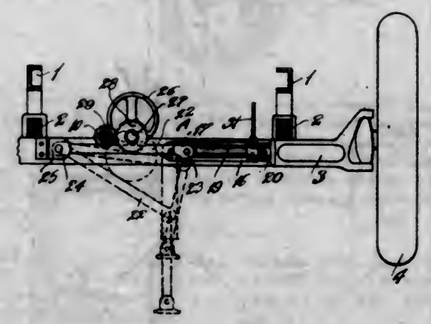
in spaced relation with respect to each other in such manner as to provide for retarded gravity-induced movement of material in said chamber, and heating means disposed within said elements and sealed thereby against direct contact with said material.

1,687,026. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 3, 1927. Serial No. 217,322. 9 Claims. (Cl. 197—73.)



5. In a typewriting machine, a counter-balancing coiled wire spring with an end terminating in an integral closed ring or loop, a notched bracket-member around which said ring hooks for engaging in the notch thereof, and instrumentalities for building up an eye or hole in said bracket whose rim engages around the wire rim of said loop.

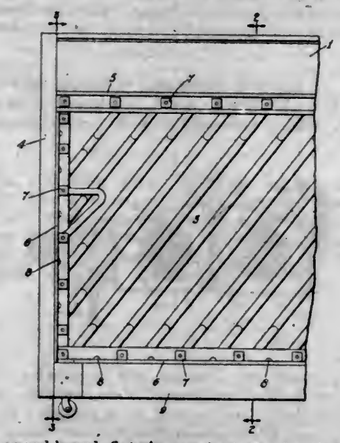
1,687,027. AUTOMOBILE JACK. JOHN A. MAAZOLF, Seattle, Wash. Filed June 20, 1927. Serial No. 200,027. 2 Claims. (Cl. 254—86.)



2. The combination in an automobile jack with an axle of a pivoted guide frame and a jack bar guided in said frame, a lever link pivoted to said axle and to said jack bar, an eccentric shaft and an eccentric disk thereon engaging the lever link, an operating shaft, a motor, and transmission mechanism between the motor and the operating shaft, for the purpose described.

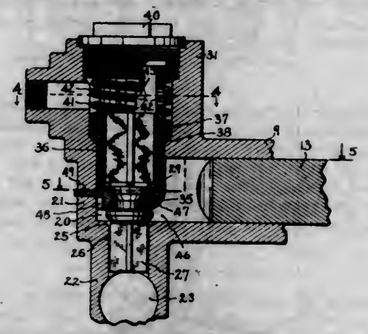
1,687,028. PIANO. JULIAN T. MAYER and EDMOND LEVIS, New York, and HERMAN SCHUM, Bronx, N. Y., assignors, by mesne assignments, to Rudolph Wurlitzer Mfg. Co., North Tonawanda, N. Y., a Corporation of New York. Filed May 29, 1923. Serial No. 642,159. 4 Claims. (Cl. 84—187.)

3. In a piano, the combination of a metal string plate and sound-board support having beveled crowning flanges extending rearwardly therefrom, a sound-board, and means at the opposite side of said board from said flanges and in registry therewith for uniformly clamping the margin



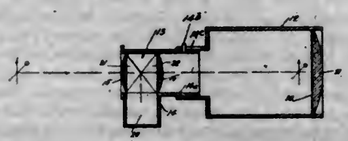
of the sound-board flatwise against the beveled faces of said flanges to hold the sound-board in predetermined standard tension.

1,687,029. PUMP. JOHN M. MCCLATCHIE, New York, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 31, 1926. Serial No. 158,143. 3 Claims. (Cl. 103—153.)



1. A pump comprising, a cylinder, a piston mounted to reciprocate in the cylinder, means for actuating the piston, a chamber communicating with the forward end of the cylinder, an inlet valve in the bottom of the chamber, a cylindrical valve casing extending downwardly into the chamber, an outlet valve seated in the casing, the forward end of the piston being provided with a vertical groove the arc of which is formed on substantially the same radius as that of the valve casing.

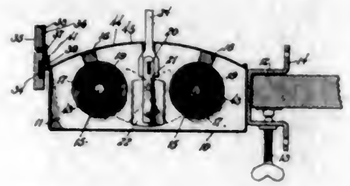
1,687,030. ERECTING FINDER. GEORGE A. MITCHELL, Los Angeles, Calif., assignor to Mitchell Camera Corporation, a Corporation of California. Filed May 22, 1926. Serial No. 110,866. 4 Claims. (Cl. 88—1.5.)



3. In an erecting finder, an erecting objective combination comprising an erecting prismatic system, and an

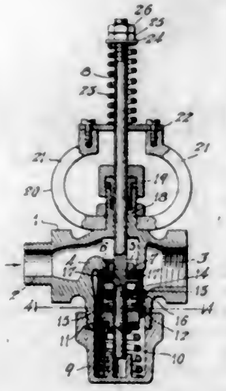
objective of two lenses secured directly to the front and rear faces of the prismatic system; the lenses being of such focal lengths as to act as a single objective with a focal length that throws an image behind the rear lens; and an image receiving surface behind the rear lens.

1,687,031. BANDAGE ROLLER, CUTTER, AND CABINET. JOHN J. MOORE, South Charleston, Ohio. Filed Apr. 30, 1927. Serial No. 187,933. 13 Claims. (Cl. 164—39.)



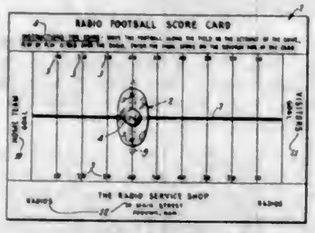
1. A machine for cutting and dispensing surgical bandage and the like, comprising, in combination; a casing having provision to be secured to a support; a spindle carrying a bandage roll mounted within said casing; means to rotate said spindle; a cutter within the casing mounted for longitudinal adjustment adjacent to the roll and adapted to be forced into cutting relation thereto; a guide associated with said casing over which severed strips are adapted to be pulled; and cutter means associated with the guide to sever the strips.

1,687,032. BY-PASS VALVE. EDWARD MULLER, North Bergen, N. J. Filed Oct. 21, 1927. Serial No. 227,711. 5 Claims. (Cl. 251—146.)



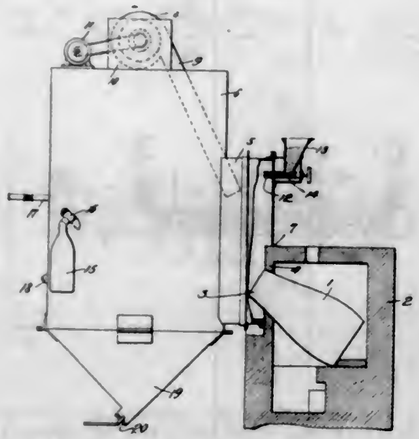
1. A by-pass valve, comprising a body having an inlet and an outlet separated by a partition with a valve opening surrounded by a valve seat at the outlet side, a slidable valve stem projecting from the valve body at the inlet side and having, a valve head fixed on said stem to cooperate with said valve seat, a spring on said stem normally seating the valve head, a cup slidable upon said valve stem providing a cylinder for the valve head with its open end arranged to abut said partition around said valve seat and having lateral openings near said open end, a spring normally influencing said cup toward said partition, so that said cup after being moved away from said partition by the valve head in opening will engage said partition in advance of the valve head in closing, and an adjustable spring upon the valve stem outside the valve body for changing the action of the said spring for seating the valve head in relation to the cup spring.

1,687,033. RADIO FOOTBALL SCORE BOARD. GERALD D. NELSON, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed July 8, 1926. Serial No. 121,082. 2 Claims. (Cl. 116—120.)



2. An advertising novelty comprising a card having a series of parallel lines thereon and a slot arranged transversely of said lines, a flat indicator simulating a ball and having a mark thereon adapted to align with one of said parallel lines and a central aperture, a securing member having a circular head whose lower face engages said indicator and a pair of tangs passing thru said aperture and said slot and being bent over to contact the under side of said card, the outer faces of said tangs contacting with the bounding edges of said slot and the width of said tangs being substantially greater than the width of said slot, whereby rotation of the indicator is prevented and the mark thereon remains parallel to the lines on the card as it is moved along the slot.

1,687,034. PROCESS OF PRODUCING A METAL-DUST MIXTURE. MINTON H. NEWELL, San Francisco, Calif., assignor to The Alloys Company, San Francisco, Calif., a Corporation of California. Filed Apr. 11, 1927. Serial No. 182,972. 6 Claims. (Cl. 75—28.)

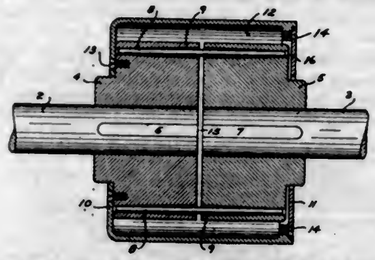


1. The process of producing a zinc-lead dust which consists in vaporizing zinc, decomposing lead oxide in the zinc vapor and then cooling the mixture sufficiently rapidly to condense the zinc in a finely divided condition.

1,687,035. COUPLING. RAY C. NEWHOUSE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Mar. 17, 1924. Serial No. 699,665. 4 Claims. (Cl. 64—96.)

1. A flexible coupling comprising, rotary driving and driven members having normally alined holes provided with tapered circular bounding surfaces, the surface of

the hole of one member converging away from that of the other, and a circular resilient pin having its end portions snugly confined but slidable within the smallest portions

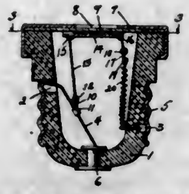


of said holes, and the medial portion of said pin being universally deflectable into contact with said tapered surfaces.

1,687,036. BASE EXCHANGE SILICATE AND PROCESS OF MAKING SAME. ESKEL NORDELL, Fort Wayne, Ind., assignor, by mesne assignments, to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 21, 1925. Serial No. 70,694. 8 Claims. (Cl. 23—113.)

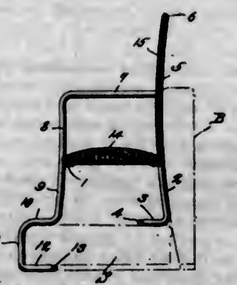
7. Base exchange silicates resulting from the reaction of a solution of a soluble aluminum salt of an organic acid with a solution of an alkali metal silicate, said gel product partially dried, leached, broken up and screened to size for use.

1,687,037. INDICATING FUSE PLUG. JOSEPH FRANCIS ORLANDO, Washington, D. C., assignor of one-half to Robert Glorioso, Washington, D. C. Filed May 1, 1926. Serial No. 106,157. 14 Claims. (Cl. 200—121.)



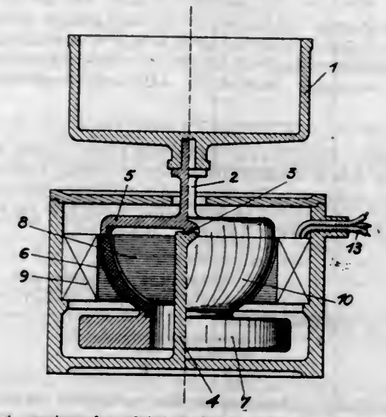
1. In a fuse plug embodying a fusible element, means to indicate the condition of the fusible element comprising an indicating member having a supporting means, secured to the fusible element at the point of the greatest resistance, and means to operate the indicating member on a parallel plane with the supporting means comprising a spring.

1,687,038. SUPPLEMENTAL CHAIR FOR AUTOMOBILES AND THE LIKE. CHARLES WILLIAM PETTIGREW, Parkersburg, W. Va. Filed Nov. 3, 1925. Serial No. 66,554. 1 Claim. (Cl. 155—11.)



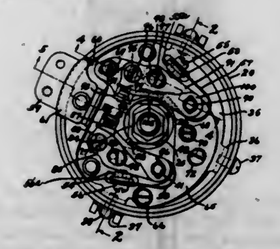
The combination with a vehicle seat including a seat cushion and a back, of a supplemental chair bearing against the back and including front and back legs, a seat supported thereby remote from the cushion, forwardly extending feet upon the legs for bearing on the front and back portions of the cushion, and means carried by the feet of the front leg and cooperating therewith to constitute hooks for straddling the front portion of the seat cushion, all of the feet constituting means for thrusting the cushion downwardly onto the lower portions of the hooks, and transverse rods connecting the rear feet and the lower portions of the front hooks respectively.

1,687,039. MOTOR FOR DRIVING HYDRO-EXTRACTORS. HENDRIK ARNOLD ROMP, Arnhem, Netherlands, assignor to Naamlooze Vennootschap Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Filed May 3, 1926, Serial No. 106,530, and in the Netherlands Feb. 13, 1926. 4 Claims. (Cl. 172—36.)



1. A motor for driving hydro-extractors comprising stator windings fixed to a casing, a column, a core fixed to said column, a rotor between the pole pieces of the stator windings and the core, the rotor, the core, and the pole pieces of the stator being provided with spherical bounding surfaces, the centres of the latter substantially coinciding with the point of support of the shaft which supports the hydro-extractor.

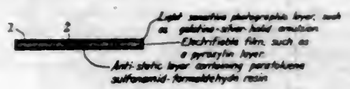
1,687,040. IGNITION DEVICE. WILLIAM D. SCHROPE, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 2, 1926. Serial No. 126,413. 7 Claims. (Cl. 200—21.)



3. An ignition device comprising in combination a housing; a cam in said housing; an apertured mounting plate secured in the housing; a conducting bridging member insulatingly secured to the one side of the said mounting plate, said member having angular portions extending through the apertures in said plate; circuit interrupters in said housing on the side of the mounting plate opposite the bridging member, said interrupters each including a stationary contact bracket and a movable arm carrying a contact adapted to engage with the contact of the sta-

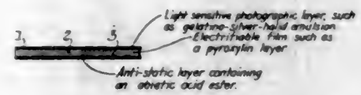
tionary bracket; and a leaf spring conductor interposed between each contact arm and an angular portion of the bridging member extending through the mounting plate, and being in electrical connection with both.

1,687,041. NONSTATIC PHOTOGRAPHIC FILM AND FILM BASE THEREFOR. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 12, 1927. Serial No. 212,568. 3 Claims. (Cl. 95—9.)



1. A flexible, photographic film comprising an electrifiable support carrying on one face a light-sensitive photographic coating and on the other face an antistatic layer containing paratoluene sulfonamid-formaldehyde resin.

1,687,042. ANTISTATIC PHOTOGRAPHIC FILM AND FILM BASE THEREFOR. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 12, 1927. Serial No. 212,569. 3 Claims. (Cl. 95—1.)



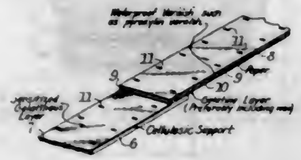
1. A flexible, photographic film comprising an electrifiable support carrying on one face a light-sensitive photographic coating and on the other face an antistatic layer containing an abietic acid ester.

1,687,043. SIGN. CLARENCE E. STRICKLAND, Atlantic City, N. J., assignor of one-third to David S. Brown and one-third to Emma R. Dawson, Atlantic City, N. J. Filed Mar. 19, 1927, Serial No. 176,803. Renewed Apr. 26, 1928. 1 Claim. (Cl. 40—138.)



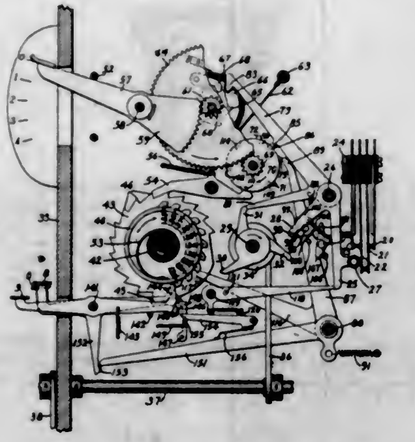
A sign comprising, in combination, a fixed part including a tubular standard, a shaft disposed therethrough, a sign plate carried by the shaft, a disc carried by the shaft, and a retractile spring having connection with the disc at a point offset from the shaft and with the fixed part to normally maintain the sign plate in a predetermined position.

1,687,044. MOTION-PICTURE-FILM STRIP. ALBERT F. SULZER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 23, 1926. Serial No. 130,812. 9 Claims. (Cl. 95—9.)



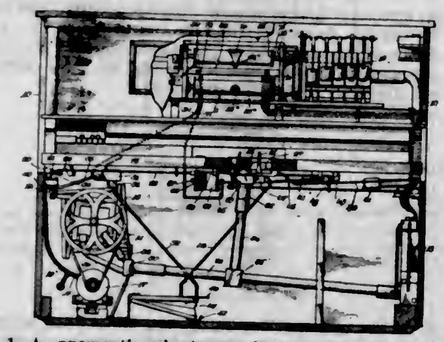
1. A motion picture film strip including a band of sensitized film with an unsensitized protective band at each end thereon, one end of each protective band being secured to one end of the film band, and each protective band comprising a strip of paper and a layer of stiffening and waterproofing cellulosic composition.

1,687,045. MULTISPEED VARIABLE-SIGNAL TRANSMITTER. NATHAN H. SUREN, Needham, Mass., assignor to The Gamewell Company, Newton Upper Falls, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1924. Serial No. 729,918. 10 Claims. (Cl. 177—380.)



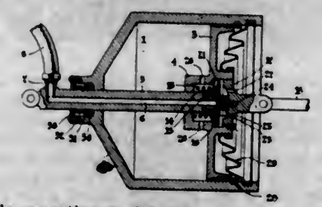
1. In a signal transmitter comprising signal formulating means and pausing mechanism,—elements revoluble at a substantially uniform speed and adapted to thereby cause functional actuations of said means and said mechanism to formulate a series of strokes separated by time intervals of diverse relative durations, mechanism for variably determining the number of such strokes to be formulated, and means whereby the actuations of both said pausing mechanism and said number determining mechanism may be controlled by greater or lesser numbers of said elements to thereby effect substantially proportional variations in the durations of said intervals, respectively, while maintaining the speed of revolution of said elements substantially constant.

1,687,046. AUTOMATIC MUSICAL INSTRUMENT. ALFRED SWENSEN, Riverside, Ill., assignor to The Cable Company, Chicago, Ill., a Corporation of Illinois. Original application filed May 12, 1916, Serial No. 97,153, now Patent No. 1,404,805. Divided and this application filed Aug. 13, 1921. Serial No. 491,895. 32 Claims. (Cl. 84—123.)



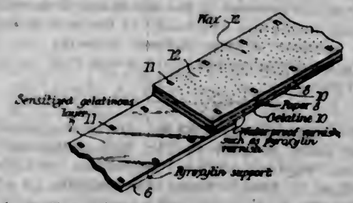
1. A pneumatic sheet-controlled musical instrument comprising a device for inducing air-tension, a motor for operating said device, and a hand-operated device for controlling the traveling speed of the music-sheet and for controlling said motor.

1,687,047. BRAKE-OPERATING MECHANISM. HERBERT HORATIO TRAIL, Vancouver, British Columbia, Canada. Filed Oct. 22, 1925. Serial No. 64,249. 9 Claims. (Cl. 121—41.)
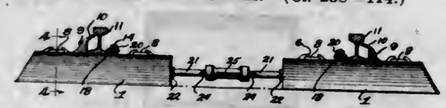


1. Brake operating mechanism comprising a valve chamber having two parts of different diameters, a valve seat at the junction of said parts of different diameters, a valved biassed towards said seat, a port connecting the part of larger diameter with the atmosphere, a port communicating with the part of smaller diameter, a passage adapted to be subject to sub-atmospheric pressure, and an axially movable controlling member adapted in one position to engage said valve and thereby cause closure of said passage and unseating of said valve and in another position to be withdrawn from engagement with said valve whereby the valve is permitted to engage its seat and said passage is opened.

1,687,048. MOTION-PICTURE FILM STRIP. EDWARD C. VAN DOORN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 28, 1926. Serial No. 130,799. 7 Claims. (Cl. 95—9.)



1. A motion picture film strip including a band of sensitized material and a protective strip therefor comprising two co-extensive paper bands laminated together by a waterproof adhesive.

1,687,049. METAL CROSSTIE FOR RAILROAD USE. ANTON WHITNEY, Radisson, Wis. Filed Apr. 4, 1927. Serial No. 180,060. 2 Claims. (Cl. 238—114.)

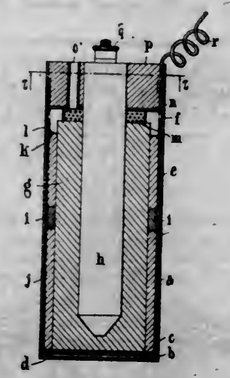


1. A railway tie structure of the character described, comprising a pair of elongated box like sections, designed to be arranged in alined end-opposed relation each for the support of a track rail, and each having an opening formed through the top thereof to permit the introduction of ballast material thereinto, a cover plate for the opening of each section, a draw bar section extending from each of the opposed ends of the tie sections, and an aligned relation, said draw bar sections each being provided with screw threads upon its free end, and a turn-buckle connection between the said free ends of the draw bar sections designed to assist in shifting the tie sections relative to one another.

1,687,050. PROCESS FOR PRODUCING LIPASE. SHOZO YAMAMOTO, Osaka-Fu, Japan. Filed June 9, 1925, Serial No. 36,035, and in Japan Aug. 16, 1924. 3 Claims. (Cl. 167—7.)

3. The process of producing lipase which comprises subjecting castor bean refuse to fermentation, adding soya bean refuse thereto and continuing the fermentation at about 30° C. to 40° C. until protein material in the refuse is converted into a yeast-like substance, immersing the material in water to dissolve the yeast-like substance, removing the undissolved material, and thereafter treating the solution with acetic acid to precipitate lipase.

1,687,051. ELECTRIC BATTERY OF THE LECLANCHÉ TYPE. GEORGE NICHOLAYEVICH ANTONOFF, London, England, assignor to Matthew Atkinson Adam, London, England. Filed May 26, 1924, Serial No. 716,062, and in Great Britain June 8, 1923. 23 Claims. (Cl. 136—107.)

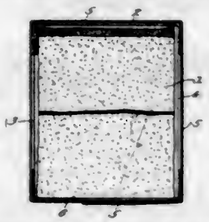


1. An electric cell of the Leclanché type with an outer moisture-retaining case provided with free ventilation for the zinc electrode externally as well as internally and with an electrolyte mixture gelatinous yet firm and substantially non-porous at the itme of making but turning to a firm porous mass of the consistency of cheese without liquefaction.

1,687,052. FOOD PACKAGE. GEORGE G. BARBER, New York, N. Y., assignor to Continental Baking Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 1, 1926. Serial No. 133,031. 3 Claims. (Cl. 206—46.)

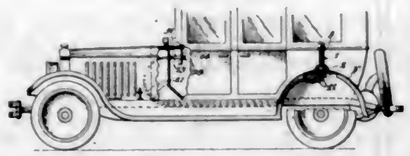
1. A merchantable package comprising a container having bottom, top, and side walls, a body of cake within said

container, and a transparent wrapper completely surrounding the container, the top and a side wall of the con-



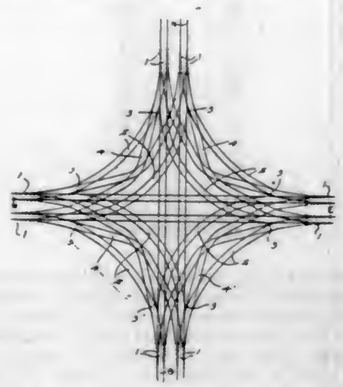
tainer having apertures permitting inspection of two surfaces of the cake without opening the wrapper or breaking it.

1,687,053. AUTOMOBILE SIGNAL. ALBERT S. BOWERSOX, Fletcher, Ohio. Filed Oct. 19, 1927. Serial No. 227,300. 6 Claims. (Cl. 116—53.)



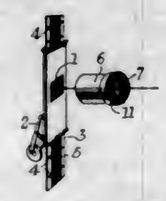
1. In signal mechanism of the class described, a housing, a signal member pivotally suspended within the housing for swinging movement to extend laterally from the housing in various positions of angular adjustment, a manually operable actuating member, means for supporting the same, a tubular guide sheath extending between the said housing and the supporting means for the actuating member, and a semi-flexible connecting element operatively connected with the signal member and with the actuating member and extending through said sheath and in frictional contact with the sheath whereby to provide for maintenance of the signal member in positions of adjustment.

1,687,054. RAILROAD CROSSING. JULIUS CAESAR BRADSHAW, Mobile, Ala. Filed Sept. 10, 1927. Serial No. 218,739. 1 Claim. (Cl. 104—130.)



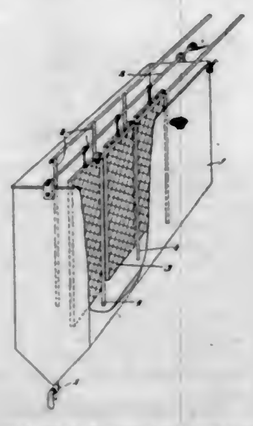
A railroad crossing comprising parallel intersecting main tracks, a three throw switch located in each main track on each side of the intersecting points, a switching track connecting each one of the switches in each of the main tracks with a switch in one of the intersecting trackways, a switching track connecting said first named switch with a switch in the second intersecting trackway at the opposite side of the points of intersection, and a switching track connecting one of each pair of first named switching tracks with an intersecting main track parallel to the main track with which the second of said pair of switching tracks connect.

1,687,055. APPARATUS FOR PHOTOGRAPHIC COLOR PROCESS. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 22, 1927. Serial No. 214,467. 7 Claims. (Cl. 95—2.)



1. A polychromatic screen for use in a color process utilizing a photographic element having associated therewith numerous image-forming elements and comprising a series of light transmitting areas of different color side by side, each area varying in length from side to side and its middle portion being the longest.

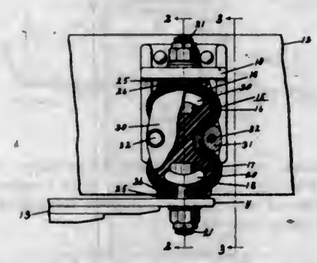
1,687,056. PROCESS OF ELECTROLYTICALLY SEPARATING THE ALLOYS OF SILVER WITH OTHER PRECIOUS OR BASE METALS. RUDOLF CARL, Vienna, Austria. Filed July 27, 1923, Serial No. 654,269, and in Austria Nov. 24, 1922. 3 Claims. (Cl. 204—57.)



1. In a process of electrolytically separating the alloys of silver with other precious and base metals, the step consisting in employing these alloys as anode in a neutral electrolyte whose anion is able to form with the silver and the base metals of the alloy easily soluble salts, whereby hydroxyllons are released at the anode and form oxides of the precious metals and hydroxides of the base metals, the hydrogen released at the cathode reducing the silver oxide to a finely distributed silver which does not adhere to the cathode.

1,687,057. SPRING SHACKLE. LOUIS P. CHRISTMAN, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 3, 1926. Serial No. 146,049. 6 Claims. (Cl. 267—30.)

1. An extension shackle for connecting two relatively movable members and having a molded unit comprising: an elastic rubber block of substantial dumb-bell form, a flexible rubberized fabric band surrounding said elastic rubber block and vulcanized thereto, a metal attaching means molded in place at each end of said molded unit for secur-



ing said unit to said relatively movable members, and an exterior metal yoke confining the neck portion of said molded unit to prevent spreading thereof when said unit is put under compression.

1,687,058. CONTROLLER LOCK. WILLIAM A. CHRYST, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 8, 1926. Serial No. 114,563. 12 Claims. (Cl. 70—14.)



1. A controller lock comprising, in combination, a movable controlling member having "on" and "off" positions, a locking bolt engageable with the member to prevent movement thereof, a spring urging the bolt into locking position, a key operated device for moving the bolt into non-locking position and for retaining it in said position, the key being removable while the device remains operative, and means operated in response to movement of the member to "on" position for moving the device to inoperative position, the member having a portion for maintaining the bolt in non-locking position when the member is moved away from "off" position.

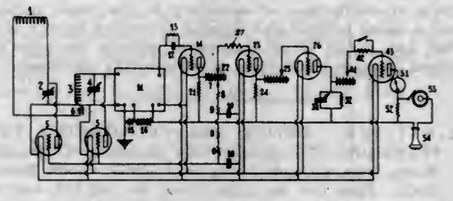
1,687,059. PROCESS OF ESTERIFYING MERCERIZED CELLULOSE WITH LOWER FATTY ACIDS. HANS T. CLARKE and CARL J. MALM, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester N Y., a Corporation of New York. Filed Apr. 23, 1927. Serial No. 186,170. 8 Claims. (Cl. 260—101.)

1. In the process of making a cellulose ester of a fatty acid, mercerizing the cellulose and thereafter heating together the mercerized cellulose and a fatty acid having more than 1 and less than 8 carbon atoms without a catalyst at a temperature between 100° and 170° C. inclusive until the acyl group in the ester thus produced reaches at least 8%, said acid being the sole acylating agent.

1,687,060. CELLULOSE ESTERS CONTAINING HALOGENATED ACYL GROUPS AND PROCESSES OF MAKING SAME. HANS T. CLARKE and CARL J. MALM, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 4, 1927. Serial No. 188,859. 43 Claims. (Cl. 260—101.)

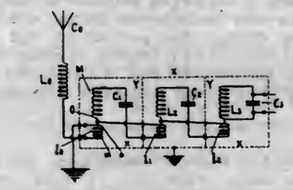
1. A cellulose ester in which there is an acyl group containing a halogen-substituted chain, the halogen being more than 1% of the weight of the ester.

1,687,061. ANTIPARASITE RECEIVER FOR WIRELESS COMMUNICATION SYSTEMS. HENRI JEAN JOSEPH MARIE DE REGNAULD DE BELLESCIZE, Paris, France. Filed June 2, 1923, Serial No. 642,882, and in France July 21, 1922. 6 Claims. (Cl. 250—20.)



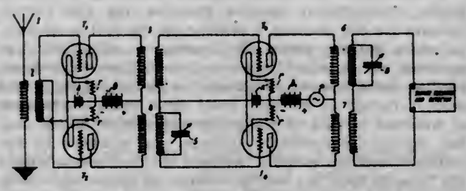
6. In a radio receiving apparatus a tuned circuit and detector associated therewith, means associated with the detector for varying the damping of said tuned circuit in accordance with the amplitude of detected currents, means associated with said first mentioned means for limiting the amplitude of disturbing oscillations, and a circuit of high time constant for further decreasing the amplitude of the disturbing oscillations and increasing their duration.

1,687,062. FILTER FOR HIGH-FREQUENCY OSCILLATIONS. HENRI JEAN JOSEPH MARIE DE REGNAULD DE BELLESCIZE, Toulon, France. Filed June 2, 1923, Serial No. 642,883, and in France June 8, 1922. 2 Claims. (Cl. 178—44.)



1. In a filter arrangement, a plurality of inductively coupled resonant circuits, each of said circuits having a primary and a secondary coupling coil, the primary one of said circuits being connected end to end with the secondary of the next successive circuit, and a ground connection joined to each common connection of the primary and secondary.

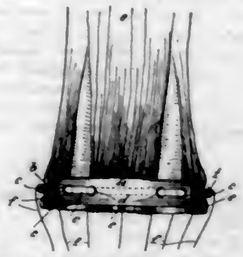
1,687,063. ELECTRIC SIGNALING. HENRI JEAN JOSEPH MARIE DE REGNAULD DE BELLESCIZE, Paris, France. Filed Dec 24, 1924, Serial No. 757,783, and in France Dec. 28, 1923. 6 Claims. (Cl. 250—20.)



1. In combination, an antenna circuit responsive to signal waves of frequency f and static pulses, a first series of circuits for amplifying the signal waves and the static pulses and for modulating the signal waves and then converting the static pulses into a train of damped

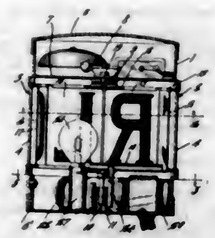
oscillations of the signal frequency plus or minus the modulating frequency, a second series of circuits parallel to said first series for amplifying the signal waves and the static pulses and converting the static pulses into a train of oscillations of the signal frequency and then amplifying and modulating both the signal waves and the train of oscillations corresponding to the static pulses, and a signal receiver and detector responsive to both said first and second series of circuits, whereby the ratio of signal effect to static effect is substantially increased.

1,687,064. DEVICE FOR FACILITATING THE SPREADING OF PARACHUTES. GIUSEPPE FURMANIK, Rome, Italy, assignor to Giacomo Achille Calabi, Rome, Italy. Filed Oct. 18, 1926, Serial No. 142,487, and in Italy June 5, 1926. 3 Claims. (Cl. 244—21.)



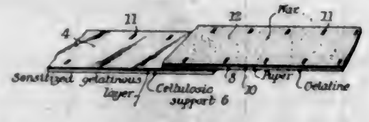
1. A device for facilitating the spreading of parachutes including a ring having perforations therein and a channel in the outer circumference thereof, and an elastic cable passing through the perforations and partially locked in the channel and adapted to clamp the ropes and peripheral portion of the body of a parachute to ensure the admission of air at the moment of launching.

1,687,065. SIGNAL FOR AUTOMOBILES. JOHN P. HANSON, Butte, Mont. Filed June 17, 1924. Serial No. 720,648. 1 Claim. (Cl. 177—337.)



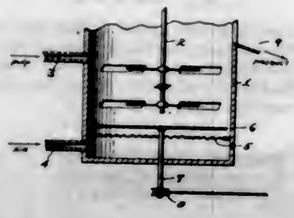
A semaphore for motor vehicles including a housing having diametrically opposed windows, top and bottom closures for the housing, a bearing on the bottom closure, an upper bearing within the housing, a cylindrical cage mounted for rotation between the windows, means extending therefrom for engagement with the bearings, said cage including an arcuate lower cross head, a plurality of windows carried by the peripheral portion of the cage for exposure successively through the windows of the housing, separate radially disposed electromagnets within the housing upon the bottom closure, an armature depending from the cage at a point remote from the center thereof, a lamp fixed upon the lower closure and supported within the cage, and means under the control of the operator for energizing any one of the electromagnets, thereby to attract the armature thereto and rotate the cage to a predetermined position, said lamp projecting past the cross-head.

1,687,066. MOTION-PICTURE-FILM STRIP. JAMES H. HASTE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 23, 1926. Serial No. 130,786. 6 Claims. (Cl. 95—9.)



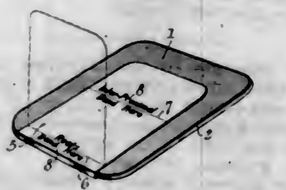
1. A motion picture film strip including a band of sensitized material and a protective band forming a continuation thereof and having a deposit consisting of wax upon one surface thereof.

1,687,067. PROCESS FOR MAKING CELLULAR CEMENTITIOUS MATERIALS. GEORGE BOOLE HINTON, Mexico City, Mexico. Filed Feb. 2, 1928. Serial No. 251,402. 5 Claims. (Cl. 83—73.)



1. In the process of making set cellular cementitious products by aerating a pulp of cement in the presence of a frothing flotation reagent, the steps which comprises initially forming small bubbles of air of substantially the size desired in the final set product in the pulp of cement from an entering air stream and then mixing said bubbles with said cement pulp without substantial change in size of the bubbles.

1,687,068. DENTAL X-RAY PACKAGE. MILLARD B. HODGSON, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 7, 1926. Serial No. 140,133. 6 Claims. (Cl. 250—34.)

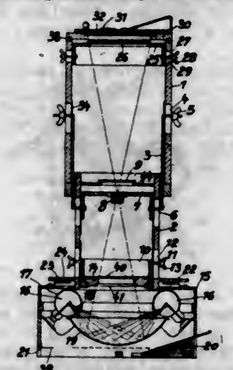


1. A dental X-ray film package having an impressionable tab attached thereto adjacent one edge and having a free portion exterior of the package lying flat upon the package and extending over half way across the package, and being bendable on a line near the edge of the package and also on a line bisecting the package transversely of the tab.

1,687,069. COPYING DEVICE FOR PHOTOGRAPHIC PURPOSES. ADALBERT ISER, Reichenberg, Czechoslovakia. Filed Nov. 26, 1923, Serial No. 677,115, and in Germany Dec. 7, 1922. 3 Claims. (Cl. 88—24.)

1. In a copying apparatus for photographic purposes, the combination of a fixed source of light including a reflecting bowl and projecting lamps on the circumference of the bowl so arranged as to direct their light on the central zone of

the bowl in a condensed manner, a positive carrier fixed relatively to the source of light, a light-proof casing between the source of light and the positive carrier, a negative



carrier and a set of lenses arranged between the source of light and the positive carrier, and a colored member for interrupting the light rays projected from the source.

1,687,070. FOOT SUPPORT. GUSTAV KRAUSE, Schneidemuhl, Germany. Filed July 11, 1921, Serial No. 483,826, and in Germany Feb. 11, 1916. 2 Claims. (Cl. 36—71.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



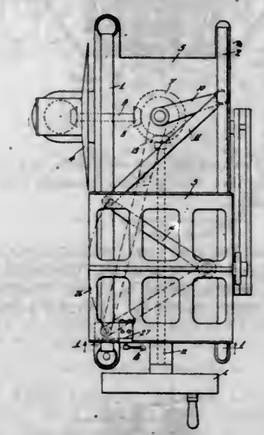
2. A boot or shoe comprising in combination with its outer parts, an inner sole, an upwardly bulged middle portion formed in said inner sole, said portion having such a configuration and position with respect to the sole as to be adapted to support the arch of the human foot and to correctly fill a cavity formed thereat while the wearer is walking, said portion extending forwardly from the heel longitudinally of the foot approximately to the middle of the sole, a substantially inelastic insertion corresponding to the shape of said portion extending lengthwise under a portion of the inner sole, a filling material, and an outer sole holding said insertion and said filling material permanently upon said inner sole at that portion of the foot where the cavity is formed.

1,687,071. SURFACING DISK. HERBERT R. STRATFORD, Cleveland, Ohio, assignor to The Stratmore Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 27, 1927. Serial No. 201,961. 2 Claims. (Cl. 51—195.)



1. A composite surfacing disk consisting of abrasive integrally joined to one surface of a disk of cloth, and a supporting element for said cloth integrally joined thereto and consisting of vulcanized fibre having a longitudinal tensile strength for a section one inch wide and ten mills thick in excess of 150 pounds and a transverse tensile strength for the same strip in excess of 75 pounds.

1,687,072. SLICING MACHINE. CORNELIS F. M. VAN BERKEL, Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Nov. 11, 1926, Serial No. 147,664, and in Germany Nov. 13, 1925. 9 Claims. (Cl. 146—102.)



1. The combination with a slicing machine having a reciprocating table and driving mechanism therefor, of means for releasably connecting said driving mechanism with said reciprocating table, and means for restricting the path of movement of said driving mechanism when released from said table.

1,687,073. SHOVEL HANDLE. LEWIS EDMOND WEBSTER, Wilkes-Barre, Pa. Filed Nov. 27, 1926. Serial No. 151,176. 8 Claims. (Cl. 294—57.)

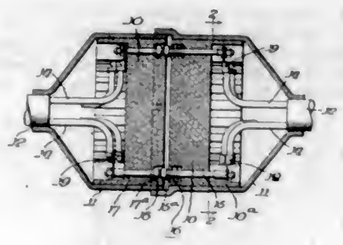


1. A shovel handle comprising a stem, a frame, a longitudinal slot in said stem, and a key in said socket portion coacting with said slot to prevent movement between the stem and socket.

1,687,074. ELECTRICAL COUPLING. ALFRED WICHERT, Mannheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Sept. 20, 1926, Serial No. 136,389, and in Germany Sept. 26, 1925. 2 Claims. (Cl. 173—328.)

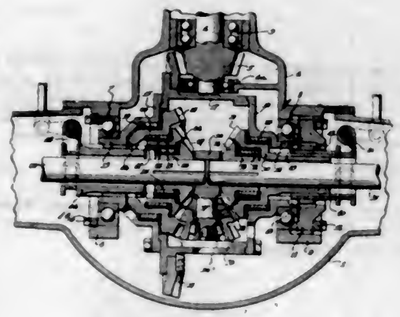
1. In an electrical coupling, a coupling member provided at one side thereof with a recess forming a marginal encompassing wall, said wall being provided with slots ex-

tending longitudinally of and being arranged circumferentially of said member and opening into said recess, and contact elements extending through said member and being



aligned with and extending into said slots, the ends of said elements at the other side of said member being exposed for contacting action.

1,687,075. VARIABLE-SPEED-TRANSMISSION MECHANISM. ARTHUR A. WIEDMAIER, Cleveland, Ohio, assignor of one-half to Lloyd M. Field, Cleveland, Ohio. Filed June 6, 1927. Serial No. 196,727. 8 Claims. (Cl. 74—99.)

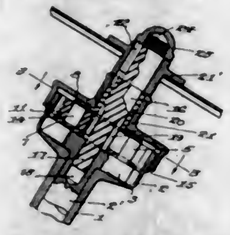


1. In a variable speed transmission mechanism, a driven differential casing, axle shafts extending therein, differential gears operatively connecting said axle shafts, change speed gears rotatable about the differential gears in said casing, means operatively connecting said change speed gears to said differential gears, a conditioning clutch adapted to connect one of said speed gears to said differential casing for high speed and fix the same change speed gear for other speeds, and a reduction clutch driven by said differential casing and adapted to be connected to other of said change speed gears to establish low and intermediate speeds.

1,687,076. PROCESS FOR COOKING WOOD CHIPS BY THE ALKALINE PROCESS OF PULP MANUFACTURE. ROBERT WOODHEAD, Hopewell, Va., assignor to Venning D. Simons, Chicago, Ill. Filed Oct. 12, 1927. Serial No. 225,854. 5 Claims. (Cl. 92—13.)

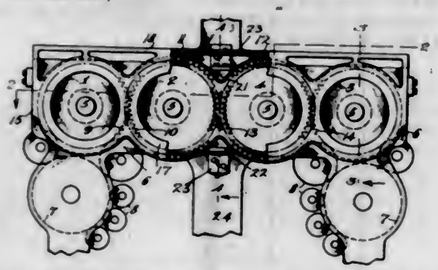
1. The process of manufacturing paper pulp which comprises the operations of preheating wood chips in the presence of previously used digesting liquor to which a small quantity of fresh digesting liquor has been added, drawing off said liquor, and then effecting a final cooking of said wood chips in a digester.

1,687,077. PLANETARY-REDUCTION-GEAR CONSTRUCTION. ERLE K. BAKER, Detroit, Mich., assignor to Baker Reduction Gear Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 8, 1923. Serial No. 611,266. 6 Claims. (Cl. 74—34.)



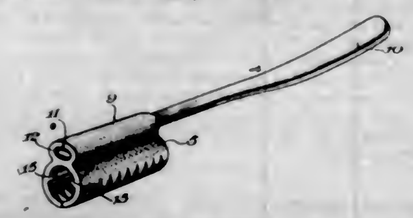
1. A device of the class described embodying therein an internal gear, a centrally arranged external gear, a steering post, spaced rings secured to rotate with the steering post, and a plurality of gears unequally spaced around the central gear, rotatably mounted between said rings, and meshing with both the internal and external gears.

1,687,078. COMBINED GEAR GUARD AND STEP. HARRY V. BALL, Concord, Mass., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed May 27, 1925. Serial No. 33,096. 2 Claims. (Cl. 74—56.)



1. The combination of a plurality of cylinders arranged in line, intermeshing gears on the cylinders at one end thereof, for driving them, a casing over the gears having a wide flat top providing a platform on which an operator may walk along the line of cylinders, and means for securing the casing in position.

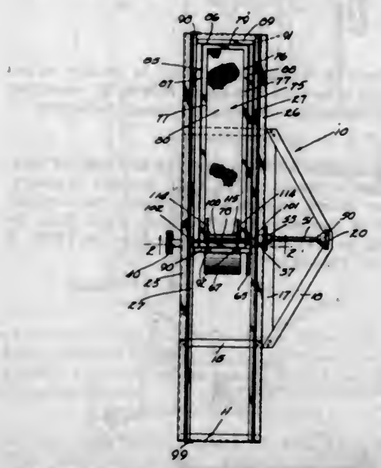
1,687,079. DENTAL DEVICE. HORACE E. BARKER, Brooklyn, N. Y. Filed Dec. 2, 1927. Serial No. 237,148. 4 Claims. (Cl. 15—110.)



1. A dental device comprising a tubular body of soft resilient material divided longitudinally through one side thereof and serrated along its meeting edges to form two opposing series of arcuate rubbing members which are normally held in contracted position by the inherent elasticity of the body, said body having a longitudinally perforated back portion, and a handle having a portion adapted to be forcibly inserted in the perforation of the back portion, the relative cross-sectional form and proportions of said handle portion and the perforation being

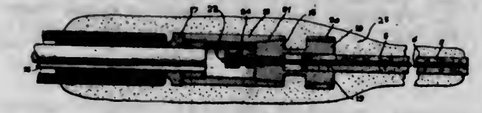
such that the turning of the handle relatively to the perforation variably expands the walls of the perforation and adjusts the said rubbing members toward or from each other.

1,687,080. METHOD OF AND APPARATUS FOR STENCILING. ROY CHRISTIAN BECK, Los Angeles, Calif., assignor to Selectasine System, San Francisco, Calif., a Corporation of California. Filed Apr. 19, 1927. Serial No. 184,932. 9 Claims. (Cl. 101—123.)



8. An apparatus for stenciling, which comprises: a stencil; means for disposing said stencil in a flat plane; means for moving said stencil longitudinally; means for supporting the work out of contact with said stencil; means for moving the work into contact with said stencil in rolling relation therewith; means connecting said stencil and said work whereby said work makes a rolling contact with said stencil when said stencil is moved longitudinally; and means for directing pigment through said stencil upon said work at the position of said rolling contact.

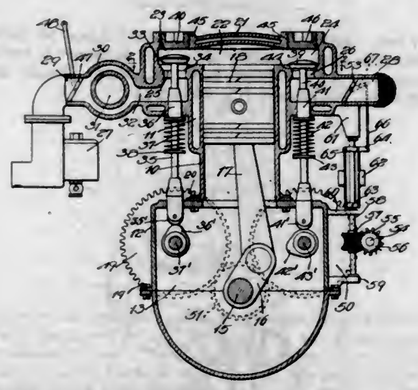
1,687,081. APPARATUS FOR CUTTING OR WELDING METAL. RALPH E. CHAPMAN, Miami, Fla. Filed Oct. 9, 1925. Serial No. 61,391. 8 Claims. (Cl. 219—8.)



1. A tool of the character described comprising, in combination, an electrode having an air passage therethrough, a hose, a clamp having an air passage therethrough connected to said hose and adapted to hold said electrode with the air passage of the electrode connected with the air passages through the clamp and hose, a holder to which said clamp is detachably connected, and an electrical conductor extending through the hose and connected to the electrode.

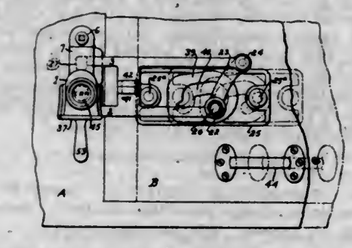
1,687,082. INTERNAL-COMBUSTION ENGINE AND METHOD OF TIMING THE VALVES THEREOF. DON COLE, Chicago, Ill., assignor of one-half to John A. Dienner, Chicago, Ill. Filed June 19, 1920, Serial No. 390,077. Renewed Nov. 30, 1923. 5 Claims. (Cl. 123—75.)

1. In an internal combustion engine, a cylinder, a piston therein adapted to establish a relatively high vacuum on the suction stroke for sucking fuel into the cylinder, intake means for supplying air at atmospheric pressure and fuel in a rich mixture, an auxiliary air valve for admitting additional air at atmospheric pressure, valve



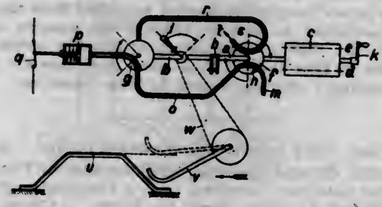
means controlling the said auxiliary air valve, and governing means associated with the engine for controlling the degree of opening of said valve means to compensate for changes in engine speeds and maintain the vacuum constant in said cylinder.

1,687,083. SEAL LATCH. ERNEST A. CONAWAY, Little Rock, Ark. Filed May 22, 1926. Serial No. 110,956. 7 Claims. (Cl. 292—113.)



1. In a device of the character described, a keeper, two levers adapted to engage said keeper, a support for said levers attached to a sliding freight car door, said support comprising a base plate provided with means whereby said levers may be pivotally supported at different points on said base plate, substantially as described.

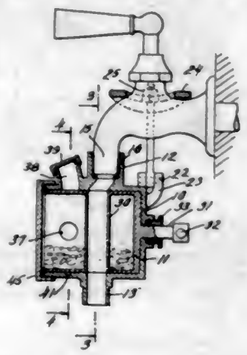
1,687,084. SAFETY DEVICE FOR TRACTION OPERATION. ABRAHAM COUWENHOVEN, Baden, Switzerland, assignor to A. G. Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Mar. 4, 1926, Serial No. 92,325, and in Italy May 27, 1925. 10 Claims. (Cl. 191—3.)



1. A protective device for traction motors operating on multi-voltage systems, comprising a change-over switch on the vehicle, a divided shaft for controlling said switch,

hand operable means for adjusting said shaft, a throwing device at the junction of high and low voltage sections of the system, and means on the vehicle operable thereby for actuating one section of said shaft.

1,687,085. SPRAYING APPARATUS. ALVA M. DOW, Braintree, Mass., assignor of one-half to Robert I. Johns, Brooklyn, N. Y. Filed Sept. 22, 1926. Serial No. 137,002. 8 Claims. (Cl. 299—84.)



1. A device of the character described comprising a casing having an inlet opening and a discharge opening, a second casing rotatably mounted in said first casing and having a conduit therethrough but not communicating therewith, said conduit being adapted in one position of adjustment of the inner casing to establish direct communication between said inlet and outlet openings, and oppositely disposed openings in said second casing adapted to register with said inlet and outlet openings.

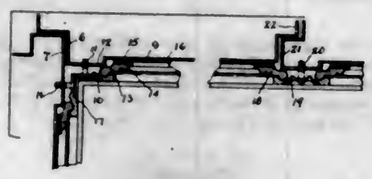
1,687,086. POP-BOTTLE WHISTLE. IRWIN H. ERB, San Francisco, Calif. Filed May 28, 1927. Serial No. 194,976. 3 Claims. (Cl. 46—46.)



1. In a unitary member of the character described, adjustable arms arranged to engage the neck of a bottle; and a hollow mouthpiece member extending from the arms and positioned at such an angle to the opening of the bottle that when the member is attached a person may be able to blow through said mouthpiece into the bottle for causing a sound or sounds to issue therefrom.

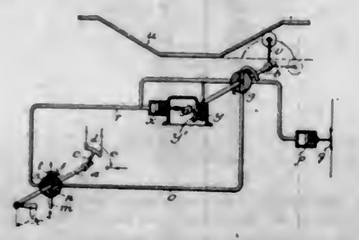
1,687,087. ELEVATOR-CAR CONSTRUCTION. MOGENS FARCH, Cleveland Heights, Ohio, assignor to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 11, 1925. Serial No. 42,990. 5 Claims. (Cl. 189—1.)

1. A wall construction for elevator cars comprising spaced parallel frame members provided with panel receiving sockets, a panel removably disposed between said frame members in said sockets, and panel retaining strips re-



movably secured to said frame members in position to engage and retain in position said panel, said strips consisting of a unitary combination ornamental trim and lock strip.

1,687,088. SAFETY DEVICE FOR TRACTION OPERATION. PLINIO FERRARI, Milan, Italy, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Sept. 24, 1926. Serial No. 137,583, and in Italy Sept. 26, 1925. 3 Claims. (Cl. 191—3.)



1. A protective device for traction motors operating on a system having high and low voltage sections, comprising, in combination, a main switch on the vehicle, a throw-over switch on the vehicle, a control device for the main switch, a throwing device at the junction of high and low voltage sections for cooperation with the control device, and means for latching the control device in position for opening the main switch.

1,687,089. SAWING WIRE. RICHARD DUANE GREEN, Trenton, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a Corporation of New Jersey. Filed Apr. 17, 1926. Serial No. 102,643. 3 Claims. (Cl. 125—12.)

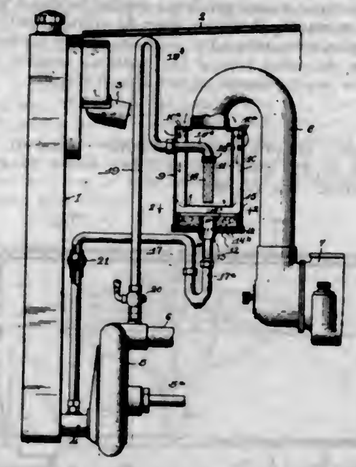


1. A sawing wire consisting of a strand formed of a plurality of wires laid up helically in the same direction upon and in contact with a single center element and held out of contact with each other to provide large abrasive carrying areas.

1,687,090. AIR CLEANER. DREW HEAD, Chicago, Ill. Filed Dec. 9, 1925. Serial No. 74,225. 8 Claims. Cl. 123—25.)

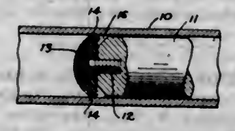
1. In a cleaning device of the character described, the combination with an internal combustion motor including a cooling system and a carburetor, of a casing having a

vertical passage communicating at its upper end with said carburetor and at its lower end with the atmosphere and the bottom of said casing, a nozzle mounted in said pas-



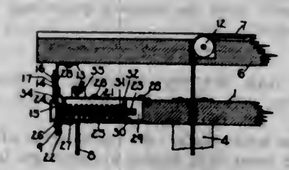
sage and connected with said cooling system for directing a spray of water transversely of said passage, and a pipe connected with the bottom of said casing and leading to said cooling system.

1,687,091. SYRINGE. GEORGE N. HEIN, San Francisco, Calif. Filed Oct. 4, 1926. Serial No. 139,244. 3 Claims. (Cl. 128—219.)



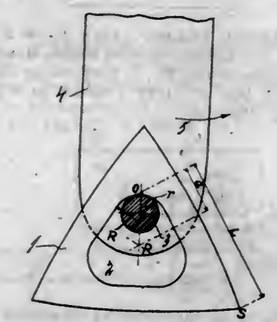
1. In a syringe of the piston type, a packing member between the plunger and barrel, comprising an elastic and compressible member having a thin, flat section contacting with the surface of one of said elements to form a sliding joint, and a relatively thick section exposed to pressure within the barrel, whereby there will be a tendency to compress the packing member axially, resulting in a corresponding expansion radially, said packing member being free to be deflected sufficiently to cause a corner of the thin, flat section to engage the co-operating surface.

1,687,092. VENETIAN-BLIND APPLIANCE. AZEL C. HOUGH, Janesville, Wis., assignor to Hough Shade Corporation, Janesville, Wis., a Corporation of Connecticut. Filed Oct. 15, 1926. Serial No. 141,717. 11 Claims. (Cl. 156—17.)



1. In an appliance of the class described, a rock bar, a bracket and means to support said bar from said bracket, said means including a fixed friction member on the inside and a spring-pressed friction member on the outside of said bracket, whereby said bar is held at any point of adjustment about its axis.

1,687,093. STONE-DRESSING TOOL. ERLING THUNE HOLM, Billingstad, near Oslo, Norway. Filed June 18, 1925, Serial No. 37,895, and in Norway June 27, 1924. 3 Claims. (Cl. 125—40.)



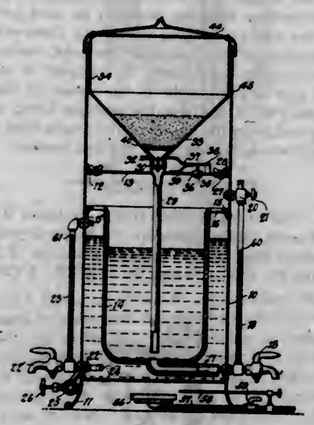
1. In a stone dressing tool a polygonal striking hammer, having a polygonal hole of substantially the same shape as the hammer, loosely journaled to rotate on a connecting bolt on the outer portion of a rapidly swinging member, the radius of the bolt being less than the radius of curvature of the corners of the hole in the hammer through which the bolt is passed, whereby the only contact between the hammer and the bolt is a line contact.

1,687,094. FREEZING-POINT DEPRESSANT. SAMUEL ISERMANN, East Orange, N. J., and WALDEMAR VERNET, New York, N. Y. Filed July 9, 1925. Serial No. 42,606. 4 Claims. (Cl. 252—5.)

1. A composition of matter for depressing the freezing point of water or an aqueous solution said composition comprising a sluble amid and glycerine.

4. As a new composition of matter for depressing the freezing point of water or aqueous solution, glycerine and a substance reducing the viscosity of an aqueous solution of glycerine and having freezing point depressing properties sufficient to yield an aqueous mixture having a freezing point of —15° C. and capable of being pumped efficiently at temperatures immediately above the freezing point by the water circulating pumping means obtaining in automobile practice.

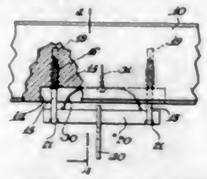
1,687,095. COFFEE URN. THOMAS H. JONES, Plainfield, N. J. Filed July 22, 1925. Serial No. 45,297. 11 Claims. (Cl. 53—3.)



1. A method of brewing coffee which consists in boiling a body of water, transferring heat from said body of water to a second body of water, utilizing the steam from the

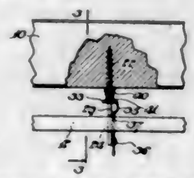
boiling water to force the second body of water through a mass of ground coffee, and then condensing the steam to draw the water back by suction through the coffee.

1,687,096. HEDDLE FRAME. JOHN JACOB KAUFMANN, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 27, 1927. Serial No. 215,804. 6 Claims. (Cl. 139—92.)



1. In a heddle frame, the means for supporting the heddle bars intermediate their ends comprising bolts adjustably mounted in the top and bottom rails of the same, said bolts having slotted head portions, a bar adapted to pass through the slotted heads of the bolts, said bar having recesses adapted in the normal position of the bar to be seated with respect to the head portions of the bolts, means adapted to hold said bar in its seated position with respect to the sloted ends of the bolts and, a member mounted on the bar adapted to support the heddle bars.

1,687,097. HEDDLE FRAME. JOHN JACOB KAUFMANN, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 27, 1927. Serial No. 215,805. 6 Claims. (Cl. 139—92.)



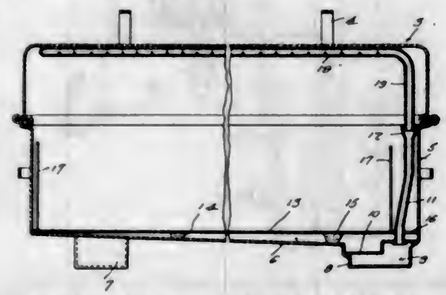
1. In a heddle frame, the means for supporting the heddle bars intermediate their ends, comprising a bolt member threaded directly in the heddle frame rail, said bolt member having a flattened head portion provided with a recess adapted to receive and support the heddle bar, and a member slidably mounted on said bolt having a central slot and an opening extending from said slot to the side margin of said slidable member, said slot and opening forming an overlapping lip adapted to engage the heddle bar and lock the same in the recess in the head of the bolt, one end of the slidable member being bent over and being provided with an aperture in said bent over portion through which the shank of the bolt passes.

1,687,098. BED CONSTRUCTION. CHARLES J. KINDEL, Grand Rapids, Mich., assignor to Foote-Reynolds Company, Grand Rapids, Mich., a Corporation of Michigan. Filed June 21, 1926. Serial No. 117,573. 1 Claim. (Cl. 5—132.)



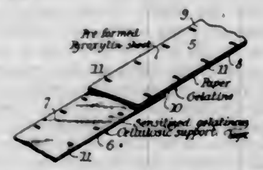
In a bed having a frame and detachable ends, vertically arranged angle members attached to the respective ends of the frame, the outwardly extending portion of each angle member having an inclined slot near its vertical center, and angle shaped retaining members adapted to be permanently secured in vertical position to said detachable ends, one face of each retaining member having a pin projecting outwardly therefrom near its vertical center, each of said pins being adapted to enter one of said inclined slots whereby the other face of the retaining member will be caused to closely engage an end of said frame.

1,687,099. GRAVY PERCOLATOR. LOUIS G. LAUN, Utica, N. Y. Filed Mar. 9, 1928. Serial No. 260,301. 3 Claims. (Cl. 53—6.)



1. In a structure of the class described, a hollow body provided with supporting feet, provided with an inclined bottom, and a collecting gravy and juice receptacle at one end of the bottom, an apertured false bottom resting on the inclined bottom and located within the body, a sectional removable cover, and a gravy conducting conduit arranged within the boiler and communicating at one end with said receptacle, one section being carried by said cover and the other section being mounted upon said body.

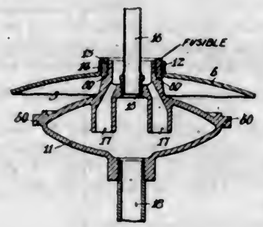
1,687,100. MOTION-PICTURE-FILM STRIP. FRANK W. LOVEJOY, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 23, 1926. Serial No. 130,791. 2 Claims. (Cl. 95—9.)



1. A motion picture film strip including a band of sensitized film with a protective band at each end thereof, one end of each protective band being secured to one end of the film band, the film band comprising a support of cellulosic film and a sensitive layer thereon and each protective band comprising a strip of paper and a pre-formed film of cellulosic material thinner than the film support and coextensive with the strip of paper and adherently secured thereto.

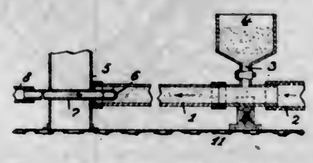
1,687,101. GAS WATER HEATER. VICTOR MAUCK, Merion, Pa. Filed Mar. 31, 1926. Serial No. 98,790. 5 Claims. (Cl. 122—18.)

1. In a gas water heater; the combination with a casing, including an outer shell having a diaphragm intermediate of the length thereof forming a water container above said diaphragm and a combustion chamber below said diaphragm; said diaphragm having an axial opening surrounded by a flange provided with an internal screw thread; of a spreader comprising a hollow casting having an axial tubular neck adapted to extend within said diaphragm opening, in spaced relation with the walls thereof; an annular shoulder on said spreader below said neck; a sleeve of a fusible metallic alloy, fusible below 800° F., softer than said diaphragm and spreader, and having an internal screw thread fitted to said spreader neck and an external screw thread fitted to said diaphragm flange; the internal screw thread in said sleeve being straight and the external screw thread being tapered to a pipe standard; whereby relative rotation of said spreader and diaphragm to assemble them deforms said sleeve into contact with said shoulder on the spreader and into contact with said screw thread in said diaphragm flange, forming a water tight joint; said joint being readily disconnected by reverse relative rotation of said spreader and diaphragm and or by fusing said sleeve.



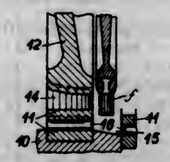
5. An article of manufacture, formed of soft metal having a fusing point below 800° F., adapted to form a conduit joint, and consisting of a conical body having a cylindrical opening therethru; and having a tapered screw thread at its conical surface, and a cylindriform screw thread at its cylindriform surface.

1,687,102. METHOD OF TREATING THE INTERNAL AND EXTERNAL SURFACES OF ELONGATED BODIES. NICOLAUS MEURER, Berlin-Tempelhof, Germany, assignor to Metallogen Gesellschaft mit beschränkter Haftung, Berlin-Neukolln, Germany. Filed June 7, 1923, Serial No. 643,984, and in Germany Nov. 29, 1922. 5 Claims. (Cl. 91—70.1.)



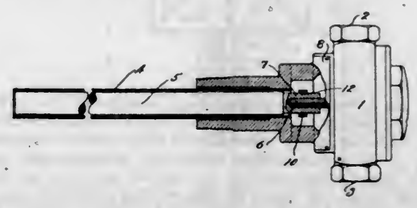
1. A method of treating elongated pipes open at both ends throughout their entire length which comprises injecting the treating material under pressure, and maintaining the pressure throughout the length of the pipe to be treated substantially the same.

1,687,103. STEAM-TURBINE CONSTRUCTION. ADOLF MEYER, Kusnacht, near Zurich, and KARL FREY, Ennetbaden, Switzerland, assignors to A. G. Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Feb. 19, 1926, Serial No. 89,451, and in Germany Apr. 23, 1925. 8 Claims. (Cl. 253—76.)



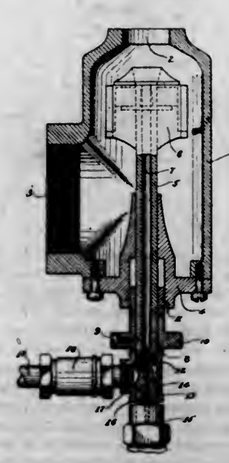
1. In steam turbine construction, a stator casing, and fixed blade mountings extending inwardly from the casing bore surface to afford intervening channels extending in the circumferential direction of the casing, said mountings being provided with passages arranged for drainage of liquid from one of said channels to another.

1,687,104. THERMOSTATIC-INDICATOR-SECURING MEANS. CLARENCE H. MORROW, Cleveland, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 26, 1926. Serial No. 131,805. 2 Claims. (Cl. 236—102.)



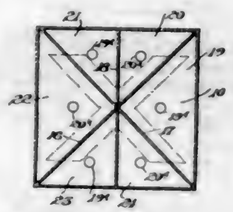
1. In an article of the class described, a valve, a thermally responsive element, a cylindrical rod secured with said element and in threaded relation with the stem of said valve, an indicator for adjustment and indication of said relation, and means for adjustably securing said indicator from movement upon said rod, said means comprising an annular groove in said rod and a member threaded in said indicator and adapted to be turned therein to engage the bottom of said groove.

1,687,105. RECUPERATOR-TYPE OIL BURNER. GEORGE F. NAAB, Lakewood, Ohio, assignor to The North American Manufacturing Company. Filed Nov. 14, 1927. Serial No. 233,158. 2 Claims. (Cl. 158—76.)



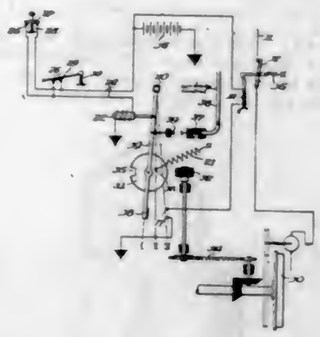
1. In a liquid fuel burner, a hollow body having openings arranged to pass high temperature air through the hollow thereof, an atomizing head having a stem extending in said hollow, said stem being tubular and having connection with a fuel supply at pressure greater than that of the air passing through said body and being arranged to convey said fuel to said head, and means for cooling said stem to prevent carbonization of fuel therein and comprising means for adding a cooling medium to fuel entering said stem, said cooling medium being at a pressure greater than that of said air and lower than that of said fuel.

1,687,106. ILLUMINATED DISPLAY SIGN. FRANK B. RAE, Berkeley, Calif. Filed Mar. 30, 1926. Serial No. 98,437. 4 Claims. (Cl. 40—132.)



1. An illuminated display sign comprising an opaque display plate having a translucent indicium formed thereon, said indicium being divided into zones each completely forming the indicium when illuminated independently, separate illuminating means at one side of the plate for each of said zones, and means for illuminating said illuminating means alternately to give the indicium the appearance of being in motion.

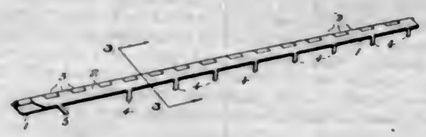
1,687,107. SAFETY DEVICE FOR MACHINE CONTROL. HENRI RUEGG, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Apr. 4, 1927, Serial No. 180,982, and in Switzerland Apr. 14, 1926. 5 Claims. (Cl. 303—19.)



1. Control apparatus comprising, in combination with the controlled machine, a switch controlling power in-put to the machine, switch means for effecting controlling movement of said control switch, a trip device for actuating said switch means and comprising a plurality of parts, means for operating said trip device, and control apparatus for controlling operative connection and disconnection of the trip device and said operating means therefor, said control apparatus tending normally to maintain operative connection of the trip device and said operating means therefor and requiring restraint by an operator to keep them disconnected, certain of the parts comprising said trap device being carried by said switch means.

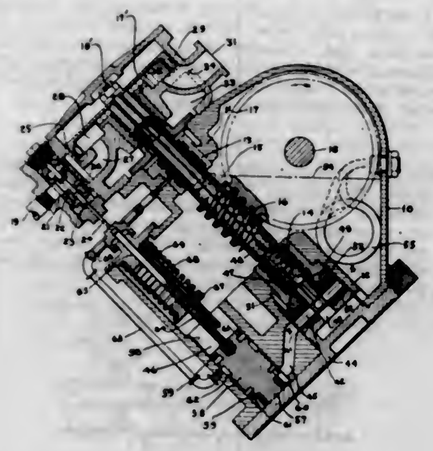
1,687,108. SHIFT BAR FOR VISIBLE INDEXES. JOHN SCHADE, Holyoke, Mass., assignor to National Blank Book Co., Holyoke, Mass., a Voluntary Trust Association of Copartnership having as trustees F. B. Towne, E. S. Towne, J. M. Towne, and F. W. Wilson. Filed Dec. 22, 1927. Serial No. 241,781. 3 Claims. (Cl. 129—1.)

2. A shift bar for use in connection with a visible index book having posts and pages consisting of sheets or slips having perforations and arranged in overlapping relation with said posts extending through certain of said perforations, comprising upper and lower members hinged together, the lower member adapted for insertion beneath the sheets



to be shifted while the upper member carries projections extending therefrom and adapted to enter the perforations in the sheets to be shifted when the members are closed.

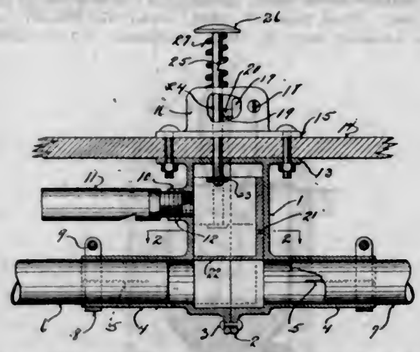
1,687,109. POWER PLANT. HENRY F. SCHMIDT, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 15, 1925. Serial No. 43,806. 12 Claims. (Cl. 253—52.)



1. In power plant apparatus, the combination of a shaft, a turbine for driving the shaft, a driving gear provided on the shaft, a driven gear meshing with the driving gear, the region of enmeshment of the gears being below the axis of the driven gear, a housing enclosing the gears and adapted to contain a body of lubricating liquid, and a fluid-translating device having its inlet communicating with the interior of the lower portion of said housing, said fluid-translating device being driven by the shaft, whereby when the device is in operative position the level of the lubricating liquid may be above the intermeshing gears and below the axis of the driven gear.

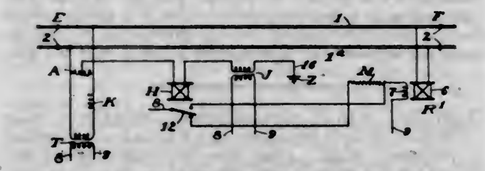
1,687,110. BURGLAR ALARM FOR AUTOMOBILES. EMIL G. SCHULTZ, Milwaukee, Wis. Filed Mar. 28, 1927. Serial No. 179,070. 2 Claims. (Cl. 116—33.)

1. In an automobile, the combination of an exhaust pipe, a two-part casing having its two parts riveted together and having an inlet portion connected to the exhaust pipe and having a pair of outlet openings, a muffler pipe connected to said casing at one of the outlet portions and in line with the exhaust pipe, a sounding device connected to said casing at the other of said outlet openings, and a slide valve carried within said casing and slidable to either of two positions, said slide valve having a closed bottom positioned above the exhaust pipe and muffler pipe when in one position, and having a hollow interior placing the sounding de-



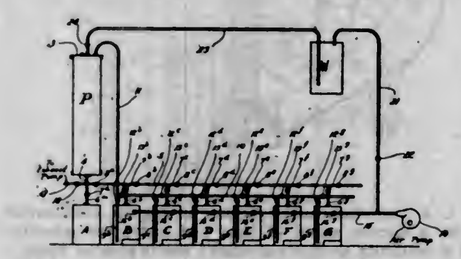
vice in communication with the exhaust pipe when in another position, said valve and said casing being of rectangular construction.

1,687,111. RAILWAY SIGNALING APPARATUS. ANDREW A. SKENE, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 4, 1926. Serial No. 126,985. 7 Claims. (Cl. 246—40.)



1. In combination with a section of railway track provided with a source of track circuit voltage and a track relay, an auxiliary conductor in contact with the track ballast, and means for varying the voltage applied to a winding of said track relay in response to variations in the resistance of the ballast between said auxiliary conductor and the track rails.

1,687,112. PROCESS OF MAKING LIQUID COFFEE EXTRACT. FRANK L. SLOCUM and WILLIAM E. TROUTMAN, Pittsburgh, Pa., assignors to Magic Coffee Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 2, 1923. Serial No. 622,333. 13 Claims. (Cl. 99—11.)



5. The process of making coffee extract, consisting in placing roasted ground coffee in a closed vessel, removing the air and occluded gases, thoroughly saturating the roasted ground coffee with a liquid formed by previously percolating cold water through roasted ground coffee, allowing the saturated coffee to macerate in the surrounding liquid, separately drawing off a fraction of the percolate, drawing off the balance of the percolate and utilizing the latter to saturate a fresh portion of roasted ground coffee, said percolation and repercolation being carried on under pressure in excess of atmospheric pressure.

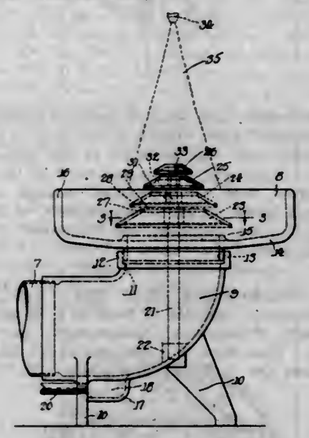
6. The process of making coffee extract, consisting in percolating water through roasted ground coffee, taking off the percolate in separate successive fractions of measured volume, and using all fractions, in succession, to percolate a fresh portion of coffee.

1,687,113. CASTER. WILLIAM A. STOCKDALE, Zanesville, Ohio. Filed Nov. 10, 1926. Serial No. 147,458. 2 Claims. (Cl. 16—45.)



1. A furniture caster comprising a rubber load-supporting and tread annulus, a plurality of layers of fabric webbing material joined together to form a stiff disk and vulcanized integral with said annulus and having its outer periphery substantially flush with the outer periphery of said annulus, thereby providing a reinforced tread therewith, and a metal sleeve axially through said disk to provide an axle bearing for said caster.

1,687,114. OIL BURNER. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor, by mesne assignments, to Sundstrand Engineering Company, Rockford, Ill., a Corporation of Illinois. Filed May 19, 1924. Serial No. 714,212. 3 Claims. (Cl. 158—28.)

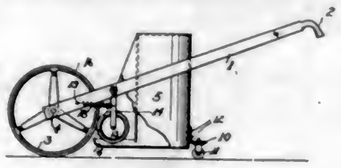


1. An oil burner having, in combination, an air blower, a burner bowl, an air conduit from the blower to the bowl, said conduit entering the bowl axially thereof, a plurality of spaced cone-shell frustums disposed in the bowl over the opening of the conduit, said frustums decreasing in size away from said opening, the lower base of one frustum being larger than the upper base of the next lower frustum, the uppermost frustrum having an imperforate upper end, supporting means for said frustums, and a fuel nozzle disposed above said frustums.

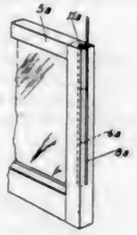
1,687,115. LINE-PROJECTING DEVICE. COLIN R. WALCOTT, Newaygo, Mich. Filed Feb. 10, 1927. Serial No. 167,141. 2 Claims. (Cl. 91—50.)

1. In a line-projecting device, a pair of rearwardly-diverging guide members; a line-projecting wheel rotatably mounted between their forward ends; a vacuum

tank supported by and between said members and adapted to contain liquid marking pigment; an open-top vessel adjacent the bottom of the vacuum tank and communicating with the interior thereof; a cross member extending between the guide members; a pair of supporting arms pivotally mounted on and depending from the cross member; a pigment-transferring wheel rotatably mounted on and between the arms, the periphery of the pigment-transferring wheel being adapted to dip into the pigment in the vessel and to directly contact the periphery of the line-projecting wheel; spring urging the arms and the pigment-transferring wheel toward the line-projecting wheel.

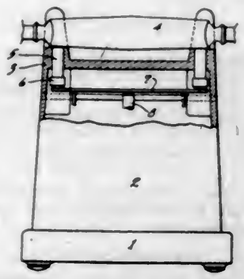


1,687,116. REVERSIBLE WINDOW. ANDREW A. WARD, Oakland, Calif. Filed Apr. 21, 1928. Serial No. 271,823. 5 Claims. (Cl. 20—43.)



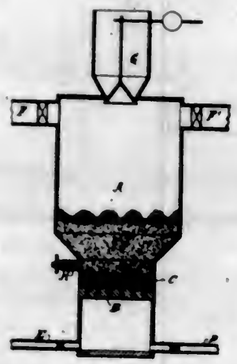
1. In a reversible sash window, enclosed passages down the side members of the window frame, slots of restricted width leading from said passages to the adjacent side edges of the frame and terminating short of the top and bottom thereof, sash cords passable through the slots, and enlarged heads on the adjacent ends of the cords movable along the passages but incapable of passing through the slots.

1,687,117. TELEPHONE DESK SET. OTTO WEEBER, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Sept. 11, 1925, Serial No. 55,650, and in Germany Dec. 5, 1924. 10 Claims. (Cl. 179—100.)



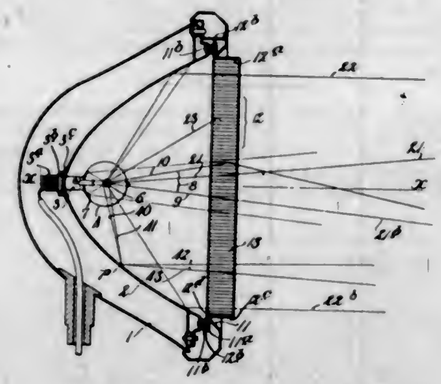
1. In a telephone desk set comprising a hand telephone and a base, a support for said hand telephone rigidly connected to said base, and a plurality of switching members projecting from said support and operable directly by said hand telephone as it rests on said support.

1,687,118. MANUFACTURING FUEL GAS. FRITZ WINKLER, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Sept. 27, 1923, Serial No. 665,221, and in Germany Sept. 27, 1922. 2 Claims. (Cl. 48—206.)



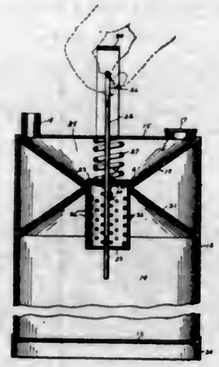
1. The process of manufacturing fuel gas in a generator having a bed of small-sized, incandescent solid carbonaceous material supported by a grate, consisting in blowing a gas adapted to produce fuel gas through said material with sufficient speed to establish a boiling action in the material, thereby causing gasification thereof by reaction between the incandescent material and the gas.

1,687,119. LIGHT-DISTRIBUTING DEVICE. ELOF BENSON, Newton Highlands, and FREDERICK M. DURKEE, Brookline, Mass. Filed Mar. 13, 1923. Serial No. 624,787. 4 Claims. (Cl. 240—48.4.)



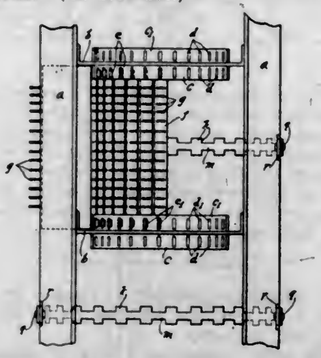
1. A light-distributing device having in combination with a narrow source of light and means for reflection of a vertically narrowly-divergent nearly-parallel beam, a lens disposed across said beam comprised of transparent horizontally disposed laminæ having their principal thickness in the axial direction of the beam, said laminæ each having an upper plane surface adapted to reflect internally impinging light, and bearing an integral absorbing layer adapted to diminish reflection of downwardly-emergent light, said layer having substantially the same index of refraction as the transparent portion integrally united therewith.

1,687,120. SAFETY CAN. FORREST S. BLANCHARD, Stoneham, Mass., assignor to Ideal Can Company, Everett, Mass., a Corporation of Massachusetts. Filed July 13, 1927. Serial No. 205,495. 5 Claims. (Cl. 221—16.)



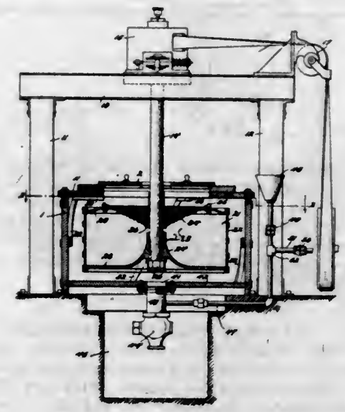
1. A safety can comprising a body, a bottom, an outer head having a filling inlet and a dispensing outlet, a funnel-shaped inner head joined at its larger end to the body, extending inwardly and downwardly from the outer head, and having a central opening communicating with the storage space of the can, and bounded by an upwardly facing valve seat, a valve formed to bear on the valve seat, a stem fixed to the valve, movable in a guide in the outer head, and provided above the outer head with a pull handle, and a spring interposed between the outer head and the valve, and normally closing the valve on the seat, the outer and inner heads forming a space communicating with the filling inlet, the dispensing outlet and the storage space, the arrangement being such that when the valve is opened, the storage space may be charged through the filling inlet and the inner head, and the can may dispense liquid through the inner head and the dispensing outlet, the valve being adapted to yield and relieve gas pressure within the storage space.

1,687,121. BANK CONTACT FOR TELEPHONE SWITCHES. KURT BÖHME, Berlin-Siemensstadt, Germany, and KARL GIESE, Nowawes, Germany, assignors to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Nov. 25, 1922, Serial No. 603,170, and in Germany Mar. 12, 1921. 13 Claims. (Cl. 175—306.)



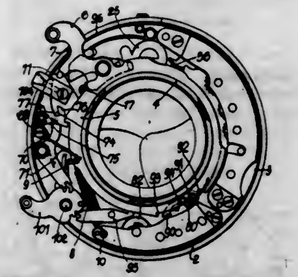
6. A bank contact assembly comprising a plurality of perforated individual contacts arranged in a row one above the other and embedded in insulating material, and a metallic stiffening member passing through the perforations in the contacts.

1,687,122. PROCESS FOR TREATING FABRICS. TANDY A. BRYSON and JOHN J. MCKEON, Troy, N. Y., assignors, by mesne assignments, to General Laundry Machinery Corporation, Philadelphia, Pa., a Corporation of Delaware. Original application filed Jan. 18, 1924, Serial No. 686,986. Divided and this application filed Dec. 12, 1924. Serial No. 755,398. 11 Claims. (Cl. 8—5.)



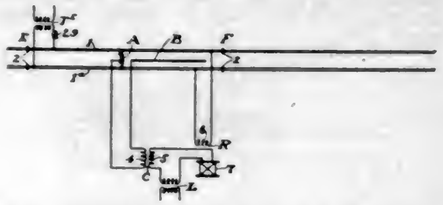
1. The process of dyeing fabric which comprises rotating the fabric in a centrifugal basket in water, to wet down the fabric, introducing the dyeing liquid and rotating the basket to effect distribution and uniform impregnation of the dye through the fabric, gradually raising the temperature of the dye liquor during said dyeing operation, subsequently continuing the heating for a desired period, removing the dye liquor, rotating the basket at a higher speed to remove the excess liquor from the fabric, surrounding the basket with wash water and rotating the basket to effect thorough penetration and distribution of the wash water, drawing off the wash water, and rotating the basket relatively rapidly to dry the fabric.

1,687,123. CAMERA SHUTTER. FRIEDRICH DECKEL and MARTIN GEIGER, Munich, Germany, assignors to the Firm: Friedrich Deckel Präzisionsmechanik und Maschinenbau, Munich, Bavaria, Germany. Filed Oct. 23, 1926, Serial No. 143,551, and in Germany Dec. 2, 1925. 25 Claims. (Cl. 95—63.)



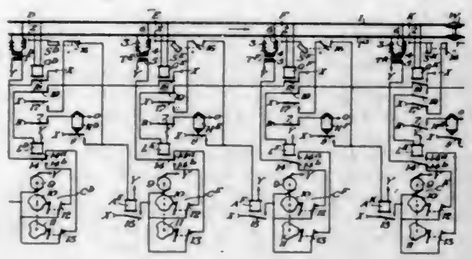
1. In a photographic shutter the combination with a blade mechanism including a blade actuating ring and a master member for operating said ring, of a retarding device operated by said master member and a second retarding device also operated by said master member, the first of said retarding devices controlling the duration of exposure and the second controlling the master member before the beginning of the exposure.

1,687,124. RAILWAY SIGNALING APPARATUS. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 4, 1926. Serial No. 127,007. 7 Claims. (Cl. 246—34.)



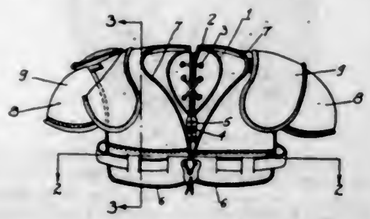
5. In combination with a section of railway track provided with a source of track circuit voltage and a track relay, an auxiliary conductor in contact with the track ballast, and a transformer having its primary included in circuit with a winding of said relay and its secondary terminals connected with said conductor and the track rails.

1,687,125. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 21, 1927. Serial No. 207,422. 9 Claims. (Cl. 246—41.)



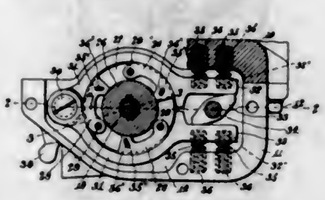
1. In combination, a section of railway track, means for supplying train governing current to said section when and only when the section is occupied by a train and for normally starting the supply of such current as soon as a train enters the section, and means for delaying the supply of said current to the section when a train enters the section of traffic conditions in advance of the section are unsafe.

1,687,126. FOOTBALL PROTECTIVE HARNESS. HUGO GOLDSMITH, Cincinnati, Ohio, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 14, 1925. Serial No. 75,324. 3 Claims. (Cl. 2—2.)



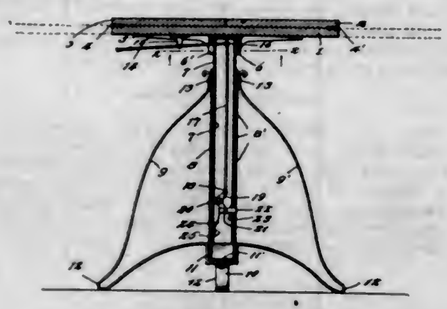
1. An athlete's protective vest, having pieces which extend from the front lower side of the vest up over the shoulders to the back side of the shoulder portions of the vest, said pieces of stiff material contoured to a greater curvature than will occur on the vest when it is adjusted on the body, said pieces supported on the vest only at their ends so that portions of the pieces intermediate the ends will be spaced from the vest, and the clavicles and neck bones of a wearer thereby protected.

1,687,127. BRAKE MECHANISM FOR LIFTING JACKS. FRANK L. GORMLEY, Brookline, Mass., assignor to The Buda Company, Harvey, Ill., a Corporation. Filed Dec. 21, 1926. Serial No. 156,110. 6 Claims. (Cl. 188—184.)



1. The combination of a rotatable worm; a worm gear meshing therewith and rotatable in one direction only; a disk carried by the worm shaft having a peripheral groove; brake shoes pivotally mounted in the groove of said disk and adapted to be moved outwardly about their pivots by centrifugal force during the rotation of said shaft; and adjustable brake arms with the inner faces of which the free ends of said shoes coact.

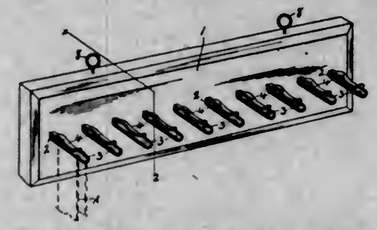
1,687,128. COMBINATION STOOL, CHAIR, AND TABLE. FRANCIS CADWALADER HALL, New York, N. Y. Filed Nov. 11, 1924. Serial No. 749,182. 1 Claim. (Cl. 45—111.)



An article of furniture comprising a supporting top, inner and outer telescopic tubes of square cross-section, the inner tube being secured to said supporting top, the outer telescopic member having resilient supporting legs comprising straps secured at their extremities to opposite walls of said outer tube and the central portion of each strap being formed with a socket portion within which the lower end of the outer tube is clasped.

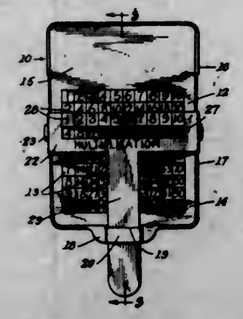
1,687,129. NECKTIE HOLDER. NICHOLAS HENNINGER, Syracuse, N. Y. Filed Mar. 14, 1928. Serial No. 261,672. 1 Claim. (Cl. 211—89.)

A necktie holder comprising a laterally elongated bar having a multiplicity of openings therethrough in parallel spaced relation and a corresponding number of dowel pins and relatively thin flat springs resting on the upper faces thereof, said dowel pins and springs having corresponding ends inserted into said sockets and their opposite ends projecting outwardly beyond the front face of the bar, the portions of the dowel pins and springs within the sockets being provided respectively



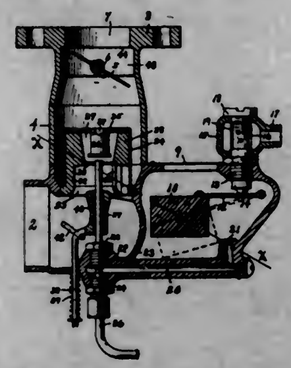
with notches and shoulders, said shoulders entering their respective notches to hold the springs against endwise displacement relatively to the dowel pins.

1,687,130. CALCULATOR. ADOLPH HUNAU and PAUL HAMMALIAN, New York, N. Y., assignors to H. & H. Calculating Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 3, 1923. Serial No. 610,474. 2 Claims. (Cl. 235—1.)



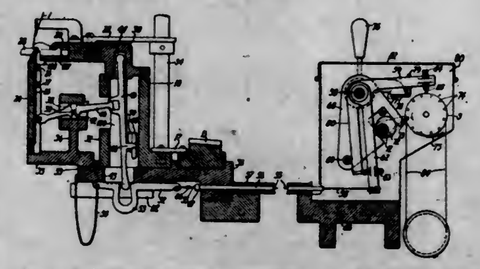
1. In a calculator of the class described, a plate, a T shaped slide movable longitudinally of said plate, flanges formed on the ends of the upper member of said slide engaging the edges of said plate, said member having an elongated horizontal sight opening, and a loop integral with said plate through which the lower member of said slide extends.

1,687,131. CARBURETOR. CHESTER F. JOHNSON, Detroit, Mich. Filed May 5, 1921. Serial No. 466,957. 3 Claims. (Cl. 261—63.)



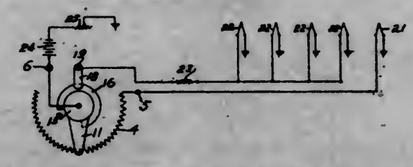
3. In combination, a carburetor body having an air inlet and a plurality of air passages connecting thereto and to the outlet for the fuel, one of said passages being central and axial with the body of the carburetor and other passages extending radially therefrom; a fuel nozzle extending axially of said central passage, a valve slidable on the nozzle and adapted to vary the effective area of said central passage, and means controlled by the flow of air through the central passage to regulate the flow of air through said radial passages.

1,687,132. KNITTING MACHINE. VINCENT LOMBARDI, Brooklyn, N. Y. Filed Sept. 17, 1925. Serial No. 56,895. 13 Claims. (Cl. 66—16.)



9. A knitting machine comprising a circular row of needles, a grooved stationary element carrying said needles, a control member individual to each needle for causing at times the advancement of its associated needle, a plurality of yarn carriers, rotating cam means for causing said members to produce a full advancement of the associated needles, a second rotating cam means for producing a partial advancement of said needles, means for retracting said needles, and automatic pattern mechanism for simultaneously selecting a group of said needles and responsive to the passage of one yarn carrier to cause said first cam means to be effective on all of a group of said needles and responsive to the passage of a second yarn carrier to cause said second cam means to be effective to advance only a fractional portion of the needles of said group, the remainder of the needles of said group being unaffected by said first and said second cam means, said pattern mechanism when moved to a different position by the operation of the machine, being responsive to the passage of said first yarn carrier to cause said second cam means to be effective to advance only said remaining needles of the group while said fractional portion of said group remain unaffected by said first and said second cam means and being responsive to the passage of said second yarn carrier to cause said first cam means to be effective to advance all the needles of said group, said pattern mechanism also causing the number of needles in said group to vary from time to time in a predetermined manner.

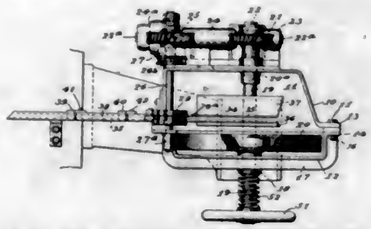
1,687,133. VOLUME CONTROL AND SWITCH FOR RADIOCIRCUITS. DIMMITT ROSS LOVEJOY, New York, N. Y., assignor, by mesne assignments, to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed July 15, 1926. Serial No. 122,560. 2 Claims. (Cl. 201—55.)



1. A unitary volume control and switch for radio circuits, comprising a resistor, a rotatable shaft, a contact arm rotatable with the shaft into and out of engagement with the resistor, and two conducting members one of which is rotatable with the shaft into and out of

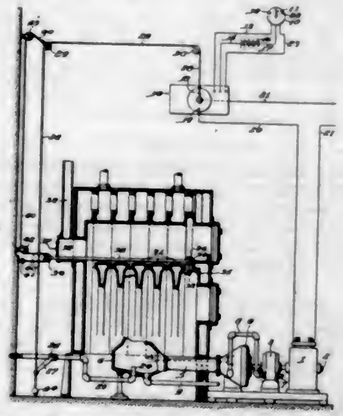
engagement with the other and electrically connected to the contact arm, the parts being so constructed and arranged that there is one position of the shaft in which the rotatable conducting member and the contact member are disengaged from the other conducting member and the resistor respectively.

1,687,134. MACHINE FOR FEEDING HEADED BLANKS. JOHN M. LYNCH, Oakville, and WILLIAM S. GILMOUR, Waterbury, Conn., assignors to Blake & Johnson Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 6, 1923. Serial No. 661,209. 4 Claims. (Cl. 10—165.)



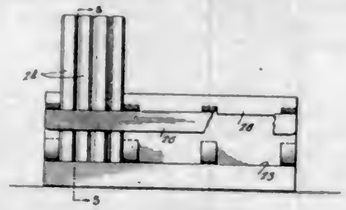
3. In a blank feeding machine, a hopper adapted to contain a quantity of headed blanks, a feed wheel mounted to rotate vertically within the hopper and located adjacent one side thereof, said feed wheel having side buckets open only on the inner side of said wheel and facing into the hopper away from the side with which the wheel is adjacent and adapted to collect blanks from the body of said hopper, and an inclined chute projecting into the hopper and arranged contiguous to said feed wheel, for receiving the blanks fed from said feed wheel, each bucket provided at its forward end wall with a laterally inclined end wall adapted to deflect blanks toward the front of the feed wheel and toward the inclined chute, and means for preventing blanks from escaping upwardly from said chute.

1,687,135. DEVICE FOR AUTOMATICALLY CONTROLLING PILOT LIGHTS OF HEAVY-OIL BURNERS FOR FURNACES, BOILERS, AND THE LIKE. STEPHEN L. MERSHON, Llanerch, Pa. Filed Jan. 17, 1923. Serial No. 613,119. 1 Claim. (Cl. 158—28.)



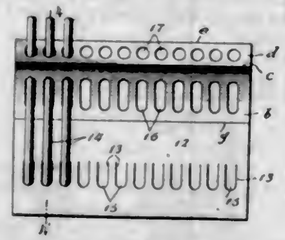
In a heater the combination of a pot or burner, means to project atomized fuel into said burner comprising an atomizer and a motor to drive the same, a thermostat, a controller actuated by said thermostat to stop and start said motor, a pilot gas light, means to supply gas to said pilot light comprising a pipe and valve therein normally set to cause a small flame at said pilot light, a connection between said controller and said valve whereby whenever said controller is actuated to start said motor, said controller also opens said valve through said connection to enlarge the flame of said pilot light prior to the projection of fuel into the said pot and to maintain said enlarged flame until said fuel ignites, and a thermostatic element in said heater operative when expanded by the heat produced by the combustion of said atomized fuel to in effect substantially lengthen said connection and permit said valve to close and reduce said flame to a normal pilot light flame.

1,687,136. DISPLAY STAND FOR MERCHANDISE. HAROLD L. MYERS, Morristown, N. J. Filed May 22, 1926. Serial No. 110,892. 2 Claims. (Cl. 211—69.)



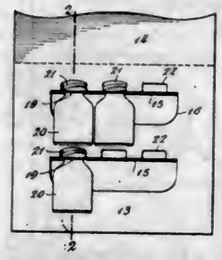
1. A display device for articles of merchandise, comprising a support provided with a plurality of apertures through which ends sections of said articles are adapted to extend so as to lie upon the outside surface of said support to one side of said apertures and upon the inside thereof at the other side of said apertures, said support at said apertures being flexed out of its plane by said articles of merchandise whereby said support is caused to exert a clamping action from the inside and outside respectively upon said articles of merchandise, flexible tongues connected at one end with said support in registry with said apertures and adapted to lie upon the inside of said articles and to exert a clamping action thereon from the inside, and a continuous flap extending across said support and having spaced openings through which other portions of said articles of merchandise project, said flap being connected at one point with said support and being otherwise free therefrom and being adapted to exert a clamping action on said articles of merchandise toward said support.

1,687,137. DISPLAY DEVICE FOR MERCHANDISE. HAROLD L. MYERS, Morristown, N. J. Filed Mar. 25, 1927. Serial No. 178,199. 9 Claims. (Cl. 211—69.)



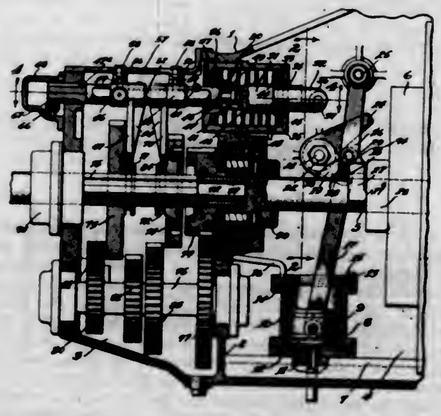
1. A display device comprising foldably connected end members arranged to diverge from the point of connection, and provided with openings for the accommodation of articles of merchandise, side members foldably connected with said end members and arranged to converge from the points of connection, said side members being provided with openings in registry with the openings of said end members, and additional members located below said first side members and arranged to occupy divergent positions, said additional members being provided with openings in registry with the previously mentioned openings.

1,687,138. DISPLAY STAND FOR MERCHANDISE. HAROLD L. MYERS, Morristown, N. J. Filed May 22, 1926. Serial No. 110,893. 4 Claims. (Cl. 211—157.)



1. A display stand for merchandise comprising a support and a tongue formed by cutting said support, adapted to be flexed out of the plane of said support so as to project outwardly therefrom, said tongue being provided with recesses of predetermined form to receive individual articles of merchandise and suspend the same in surface engagement with said support, the latter being provided with apertures communicating with said recesses dimensioned to permit portions of said articles of merchandise which are larger than said recesses to be adjusted to positions above and in suspending engagement with said tongues.

1,687,139. TRANSMISSION-OPERATING DEVICE. PAUL W. NEFF, Cincinnati, Ohio. Filed May 8, 1926. Serial No. 107,801. 11 Claims. (Cl. 74—58.)



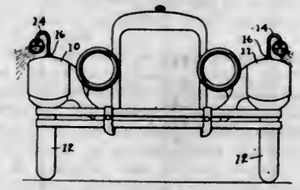
1. A slide gear speed-change transmission, including, a clutch controlled power shaft, a clutch therefor, a clutch throw-out lever, a gear shifting rod, a power operated device adapted to move said clutch throw-out lever and translate said gear shifting rod in the named sequence, said gear shifting rod set up by translation for a selective gear shift, a control lever for rotating said rod to connect said rod to the desired gear to be shifted, and means for retracting said rod and shifting said gear.

1,687,140. WATERMARKED PAPER. ANTON PLEYER, Spechthausen, near Eberswalde, Germany, assignor to Gebr. Ebart, Berlin, Germany, a Corporation of Germany. Filed Nov. 2, 1922, Serial No. 598,471, and in Germany Nov. 19, 1921. 1 Claim. (Cl. 92—38.)

Paper comprising a body consisting of long fibers and a short fiber layer deposited as loose pulp upon only a predetermined section of said body while the latter is still in a pulpous state, the fibers of said body and layer being intimately interlocked and said short fiber layer merging into said body along an irregular line visible upon a surface thereof

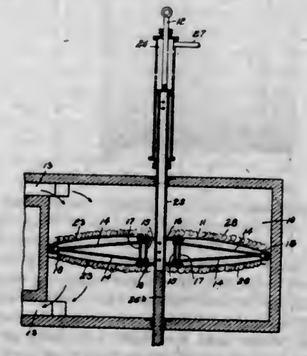


1,687,141. LAMP. ALFRED D. PRICE, East Cleveland, Ohio. Filed Sept. 9, 1926. Serial No. 134,363. 1 Claim. (Cl. 240—48.4.)



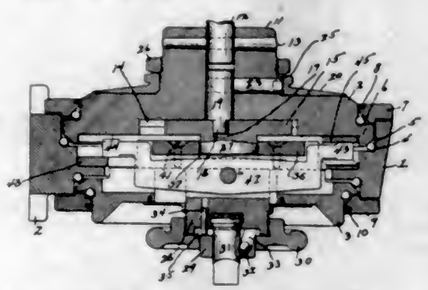
In a lamp for an automobile, a substantially cylindrical shell adapted to be arranged with its axis extending longitudinally of the automobile, a tubular supporting bracket secured to the top of said shell having a portion arranged in lateral spaced relation thereto whereby when said bracket is secured to the fender of an automobile the outer side of the shell will lie substantially vertically above the outer edge of the fender, said shell having a window along one side through which light may be projected along the side of the road and a window at its front end, a reflector on the interior of the rear wall of the shell adapted to project light through the last mentioned window, an opaque shield in the upper portion of the front end of said shell for directing the light rays downwardly, a colored lens mounted in the shield above the plane of the downwardly directed light rays, and a lamp receiving socket arranged in said bracket adjacent to its point of connection to the shell.

1,687,142. HEATING METHOD AND APPARATUS. FRANZ PUENING, Pittsburgh, Pa. Filed July 24, 1925. Serial No. 45,815. 13 Claims. (Cl. 263—1.)



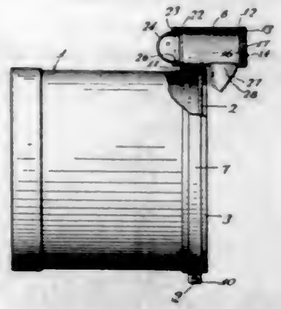
1. The method of cooling a chambered member employed in actuating heated gases, which comprises conducting relatively cool fluid to the interior and exterior walls of said chambered member simultaneously

1,687,143. WORK-HOLDING HEAD FOR LATHES. CLARENCE A. RICHARD, Detroit, Mich., assignor, by direct and mesne assignments, of one-third to Otis K. Richard and two-thirds to Clement C. Richard, Detroit, Mich. Filed Mar. 3, 1924. Serial No. 696,411. 9 Claims. (Cl. 82—40.)



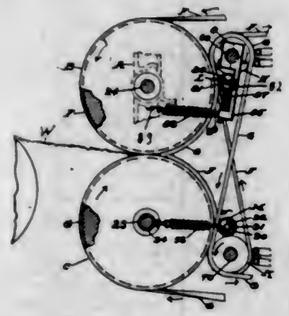
1. In a work holding head, a stationary body, a driving member and a driven member rotatably supported therein in axial alignment, a work holder carried by the driven member and rotatable therewith, the work holder being provided with an elongated way, an eccentric on the driving member adjustable as to its distance from the axis of rotation thereof and engaging in the way whereby, during rotation of the driving member, the work holder is intermittently caused to move on a diametrical line of the driven member, a rock lever pivotally mounted relative to the driven member having the opposite ends extending into an annular recess provided between the inner face of the driving member and the stationary body, a cam ring on the driving member, a complemental ring on the stationary member, the rings being so arranged that the lever is intermittently rocked, first locking the driving and driven members together and then holding the driven member stationary, and an index plate for determining the eccentricity of the said eccentric.

1,687,144. HEADLIGHT ATTACHMENT. DIRK RINGERS, Long Beach, Calif. Filed Dec. 15, 1927. Serial No. 240,153. 5 Claims. (Cl. 240—41.)



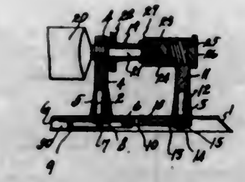
4. An attachment for a headlight, comprising a tubular casing, a band secured to the side of said casing and adapted to encircle the headlight to position the casing thereupon with its forward end projecting beyond the front of the headlight, means for clamping said band in place, a mirror secured within the forward end of said casing and facing rearwards, an apron depending from said casing before said headlight and adapted to reflect some of the rays of light emanating from said headlight through an aperture in said casing and onto said mirror and a colored, translucent jewel secured within the after end of said casing and adapted to be illuminated by light reflected from said mirror.

1,687,145. TAPE-CONDENSER CLEARER ROLL. HENRY J. ROGERS and FRANK H. BOYLE, Lowell, Mass., assignors of one-third to Gardner W. Pearson, Lowell, Mass. Filed Apr. 28, 1926. Serial No. 105,321. 6 Claims. (Cl. 19—151.)



1. In a tape condenser for a carding machine having divider rolls, tape rolls and tapes which pass partly around the divider rolls and tape rolls; the combination of a clearer roll which engages the part of a tape roll which is free from tape; with means to revolve it in the same direction with the tape roll.

1,687,146. DISPENSING DEVICE. SAMUEL E. ROSS and PHILIP H. BOWLSBY, Walkerville, Ontario, Canada. Filed Mar. 21, 1927. Serial No. 177,002. 4 Claims. (Cl. 221—60.)

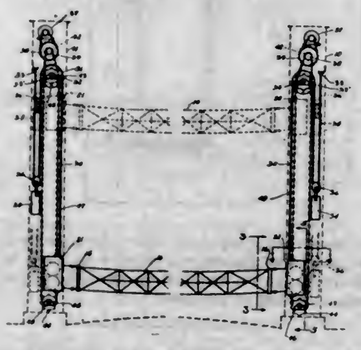


1. In a dispensing device, a base, a pair of members rotatably mounted in the base, a nozzle supported in one of the members, the nozzle being adapted for threaded relation with the discharge end of a paste tube, a spring pressed nozzle closure member supported in the other rotatable member and normally closing the nozzle, a disc secured to the rotatable member in which the nozzle is supported, a slotted member secured to the other rotatable member, a pin extending from the disc and adapted to engage in the slotted member to turn the slotted member to a limited extent as the disc is turned, the disc being provided with a notch and a flat spring having an end engaging in the said notch when the nozzle is in the closed position.

1,687,147. BARRIER DEVICE FOR STOPPING VEHICLES. EMERSON D. SAWYER, Chicago, Ill. Filed Dec. 27, 1921. Serial No. 525,236. 28 Claims. (Cl. 39—1.)

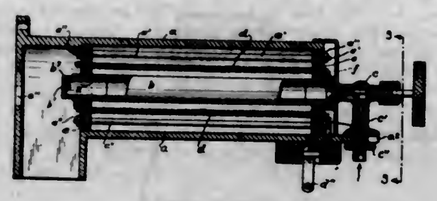
1. A device of the class described comprising oppositely arranged columns; a barrier between said columns adapted to resist the impact of a vehicle; carriages mounted on said columns for slidable movement; flexible reserve members within said carriages and secured to said barrier to permit said barrier to move in the direction of the travel of a vehicle striking the same; and means actuated by the movement of said barrier for increasing the resistance thereof.

8. A device for stopping vehicles comprising columns arranged on opposite sides of a roadway; a barrier extending across said roadway between said columns; carriages slidably mounted longitudinally on said columns; reserve members within said carriages and fixedly secured to said barrier to permit said barrier to move in the direction of the travel of a vehicle striking said barrier; and means including a friction brake a cone shaped pulley and a member engaging said pulley and actuated by the paying out of said reserve members, for increasing the resistance of said barrier upon being struck by a vehicle.



16. A device for stopping vehicles, the combination with oppositely arranged supports having vertically extending passages, of a barrier between said supports; carriages slidably mounted in said passages; reserve cables within said carriages and fixedly secured to said barrier to permit said barrier to move in the direction of the travel of a vehicle striking said barrier; shock absorbing means carried by said carriages for resisting the shock communicated to said carriages when said barrier is struck by a vehicle; and means actuated by said barrier for increasing the resistance thereof.

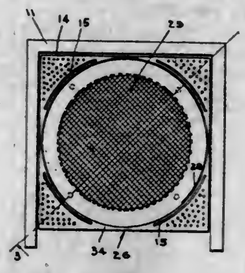
1,687,148. GAS-GENERATING APPLIANCE. HOMER L. SCHNEIDER, Cleveland, Ohio. Filed Oct. 21, 1921. Serial No. 509,305. 2 Claims. (Cl. 158—53.)



1. In apparatus of the class described, the combination with a supporting casing, of a removable electrical heating element, and an associated removable vaporizing chamber, both adapted to be inserted within said casing in operative relation, and a controllable fuel supply connection for the vaporizing chamber, substantially as set forth.

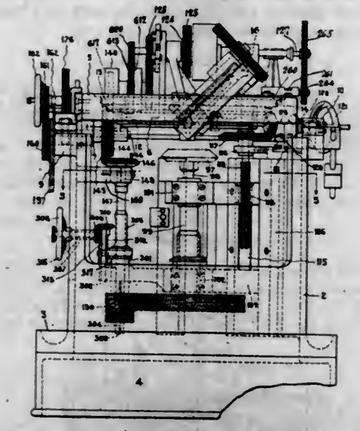
1,687,149. REFRIGERATOR REVOLVING RECEPTACLE. LOUIS S. SHAUER and ROSE SHAUER, Los Angeles, Calif. Filed Aug. 10, 1927. Serial No. 211,951. 2 Claims. (Cl. 211—152.)

1. A receptacle comprising in combination a bracket structure, rectangular in plan and adapted to be secured to three sides of a rectangular container, said bracket having a large circular opening in the center with a horizontal structure adjacent said opening, vertical segmental rims spaced outwardly from the opening and separated one from the other, and a circular tray with means to support the tray on the said horizontal portion of the bracket adjacent the opening for a rotary movement, the tray having a peripheral rim cut away at one section to



allow ready inserting and removing of articles, the rim on the tray and the segmental rims on the bracket being adjacent each other.

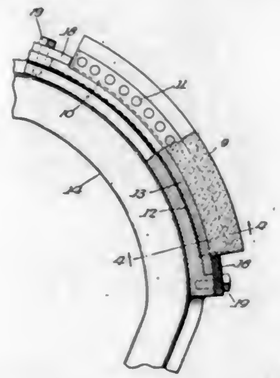
1,687,150. BEVEL-GEAR-CUTTING MACHINE. CHARLES H. TAYLOR, Toronto, Ontario, Canada. Filed Nov. 13, 1920. Serial No. 423,928. 68 Claims. (Cl. 90—1.)



1. In a spiral gear cutting machine the combination of a blank carrier; means for continuously rotating the same; a train of cutters disposed in the direction of a generatrix of the pitch-cone of the gear blank; means for driving the cutter-train; means for swinging the latter on a center coincident with the axis of the gear blank to cause the cutters to traverse the gear blank tangentially; and means compensating for the difference in speeds of the gear blank-carrier, traversing motion and the cutter-train.

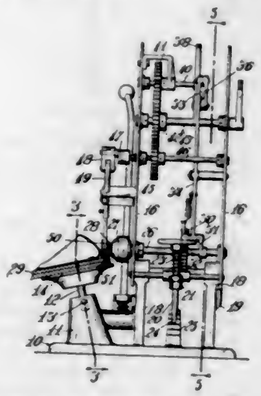
40. In a spiral gear cutting machine the combination with the machine frame, having a slideway thereon, a train of cutters disposed in the direction of a generatrix of the pitch cone of the blank, and means for driving said train, of a carrier slidably mounted in said slideway, a blank carrying spindle journaled in said carrier, means for continuously rotating said spindle, means for adjusting the blank relatively to the cutting train, said means consisting of a feed-screw connected to the carrier and adapted to move the same along the slideway operatively, and means for rotating said feed-screw, means for swinging the cutting train to cause the cutters to traverse the gear blank tangentially, and means compensating for the difference in relative speeds of the gear blank and the traversing motion cutters.

1,687,151. FRICTION BRAKE. JAMES S. THOMPSON, New York, N. Y., assignor to American Brake Materials Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1926. Serial No. 137,415. 10 Claims. (Cl. 188—250.)



5. As a new article of manufacture, a friction brake shoe comprising a composition body, a metal back in the form of a shell on the body, and a bar interposed between the back of the shell and the body and projecting beyond the ends of the shell and body.

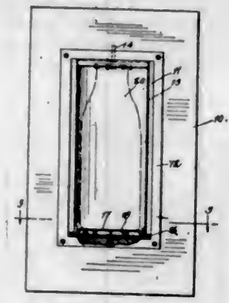
1,687,152. SHOE-REPAIR MACHINE. GIUSEPPE VITALE, Chicago, Ill. Filed Apr. 30, 1927. Serial No. 187,878. 7 Claims. (Cl. 12—17.)



1. A machine of the class described comprising a revolving table, a knurled feed wheel adapted to engage and feed the edge of a shoe sole, and a reciprocating knife for severing stitches in said shoe sole edge.

1,687,153. MILK-BOTTLE PROTECTOR. STANLEY BARDAXOGLOU, New York, N. Y. Filed Apr. 9, 1927. Serial No. 182,491. 2 Claims. (Cl. 232—1.)

2. Milk bottle protector comprising a half-cylindrical hollow body open towards one side, pins entering said body from opposite ends for allowing a rotation of said body within an opening in a door frame, a guide for the lower end of said body, a platform within said body adapted to receive the milk bottle, a plurality of means for yieldingly supporting said platform, a depending member on the bottom of said platform adapted to enter a bore in the door frame upon the depression of the platform under the weight of a full bottle placed thereon to constitute a locking means, said locking means being located at predetermined points, and said yielding platform supporting means of a tension to ensure the proper operation of said



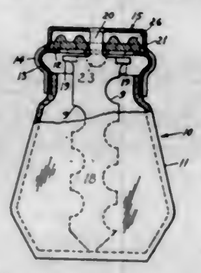
locking means for holding the closed bottle protecting side of said body towards the outside of a building to prevent a theft of the bottle and tampering with the bottle contents after delivery of the bottle.

1,687,154. FOOD PRODUCT AND PROCESS OF MAKING THE SAME. MYRLE S. BOLTON, Rosemeade, Calif. Filed Aug 31, 1926. Serial No. 132,898. 4 Claims. (Cl. 99—11.)

1. A process of producing a food product which consists in mixing a nut butter with water, adding thereto cut up cucumber pickles, sealing the mixture in containers, and cooking the same until the mass becomes a solid or a semi-solid.

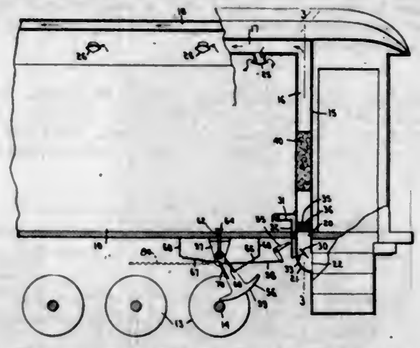
4. A new food product of the consistency of soft cheese, made by cooking under pressure peanut butter and small sweet cucumber pickles whereby the peanut butter is jellified and free of the oily taste of ordinary peanut butter.

1,687,155. SELF-CLEANING SALT SHAKER AND THE LIKE. JOSEF CAYOT, Oakland, Calif. Filed Mar. 25, 1926. Serial No. 97,209. 8 Claims. (Cl. 65—57.)



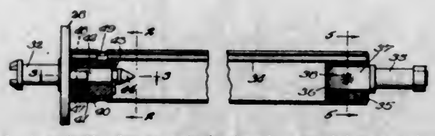
1. A shaker of the class described, comprising a container adapted to hold the material to be dispensed and provided with an open support at its upper end; a perforated top rotatably secured on the support; an agitator secured to the top and adapted to extend into the container and having flanges thereon; a cleaning block losely mounted on the agitator and adapted to rest on the support and being provided with cams, the block having projections thereon adapted to register with and to extend into the perforations in the top for the cleaning thereof, and the block having openings therein for the passage therethrough of the material in the container, the cams being adapted to engage the edges of the opening in the support for holding the block in a non-rotative position, and the flanges being adapted to engage the cams for raisin the block to the registering and cleaning position by a rotative movement of the top on said support.

1,687,156. VENTILATING APPARATUS. FREDERICK C. DUERK, Defiance, Ohio. Filed July 30, 1925. Serial No. 46,970. 8 Claims. (Cl. 98—9.)



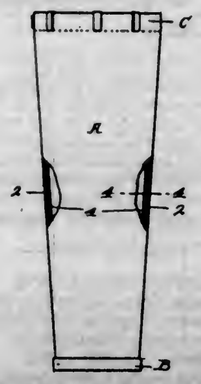
1. The combination with a railroad car having air passages in the end walls and communicating horizontal passages in the roof thereof, of air screening and purifying apparatus mounted in said vertical passages, air inlet ports at the lower end of said vertical passages, discharge ports at the upper end of said vertical passages, shut off valves for said discharge ports, and means operable by the running mechanism of the car for opening the discharge port at the rear end and for closing the discharge port at the front end thereof.

1,687,157. DUPLICATING MACHINE. JOHN J. FLANIGAN, Chicago, Ill. Original application filed Apr. 6, 1925, Serial No. 20,890. Divided and this application filed Nov. 30, 1925. Serial No. 72,088. 14 Claims. (Cl. 242—68.)



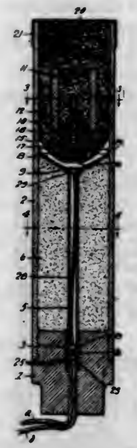
1. A spindle for a gelatin band comprising a tubular member, a hub permanently secured in one end thereof, a pawl pivoted on the inner end of said hub and spring pressed towards the center thereof, said hub having a bore therethrough, a journal having a stem inserted in said bore, said stem provided with a groove to receive said pawl.

1,687,158. CREASE RETAINER. FRANK FOSTER, Kansas City, Mo. Filed July 19, 1926. Serial No. 123,567. 1 Claim. (Cl. 2—231.)



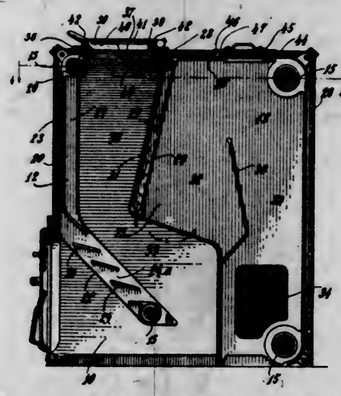
In combination with a pair of trousers, crease retaining cords extending longitudinally of the trouser legs and folded at their ends, said folded ends being sewed to the trousers and strips of suitable material for holding said cords in place and provided at their ends with enlargements for covering the folded ends of said cords.

1,687,159. PYROTECHNIC ALARM AND SYSTEM INVOLVING THE SAME. HARRY C. GAMMETER, Cleveland Heights, Ohio. Filed Apr. 8, 1926. Serial No. 100,751. 6 Claims. (Cl. 102—24.)



1. A pyrotechnic alarm comprising a base, a barrel surmounting the base, a quantity of flare material within said barrel, an aerial projectile and its impelling charge within the barrel in advance of said flare material, an electric igniter in the base, and means for communicating fire therefrom to the impelling charge of the aerial projectile and to the adjacent end of the quantity of flare material.

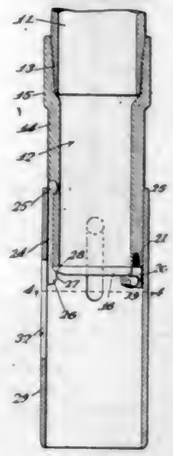
1,687,160. BOILER. FRANK B. HOWELL, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 31, 1920. Serial No. 434,262. 1 Claim. (Cl. 122—212.)



A boiler comprising end sections and a plurality of intermediate sections, each of said intermediate sections comprising a front member and a back member arranged in spaced relation relative to each other; said back members each having an intermediate forwardly-projecting angular portion and forming jointly with said front members a vertical tapering fuel magazine extending transversely of the boiler, said front members each having an inwardly and downwardly inclined grate portion extending below the projecting angular portion of its respective back

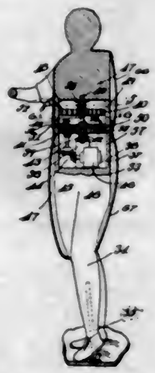
member and forming therew'th a downwardly flaring fuel receptacle and combustion chamber; a series of narrow vertical flues formed intermediate said back members to the rear of said fuel receptacle and extending longitudinally from said fuel receptacle towards the back of the boiler, and the upper portions of each of said back members having a pair of spaced ribs arranged along its front edge upon opposite sides thereof registering with corresponding ribs of the contiguous back members to form a series of relatively narrow flues for the introduction of secondary air between said fuel magazine and the flues disposed to the rear of and extending from said combustion chamber to the smoke outlet of the boiler, substantially as specified.

1,687,161. OIL-WELL CEMENT-DUMP BAILER. ARTHUR E. JOHNSON, Taft, Calif. Filed May 11, 1927. Serial No. 190,462. 8 Claims. Cl. 166—19.)



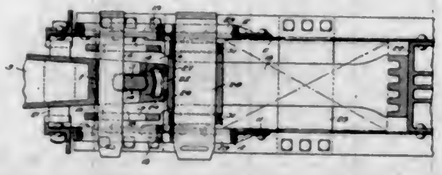
1. A well cementing device comprising in combination a bucket structure, a dumping trap pivotally mounted within said bucket, a latch shiftably mounted on the bucket structure to engage the trap, a sleeve slidably mounted on the bucket structure adapted in its lower position to hold the latch in locking relation to the trap, said sleeve releasing the latch in its upper position.

1,687,162. BASEBALL GAME. CHARLES JONES, Long Beach, Calif. Filed May 11, 1927. Serial No. 190,496. 4 Claims. (Cl. 273—89.)



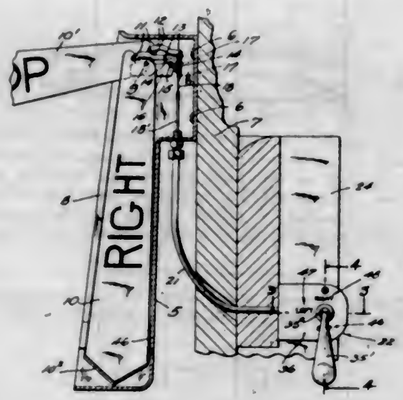
1. In a baseball game a figure representing a batter, having a fixed lower body part and a rotatable upper body part mounted thereon, the upper part holding a bat, an electric motor mounted in the lower part, a gear driven by said motor, a trigger means interconnecting the gear and the upper part to rotate said upper part in one direction, means to release the trigger after a predetermined movement, and a spring means to return the upper body part to its initial position.

1,687,163. DRAFT RIGGING. BYERS W. KADEL, Baltimore, Md., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed Feb. 24, 1925. Serial No. 11,239. 19 Claims. (Cl. 213—69.)



1. In a railway draft rigging, the combination with a coupler, of a yoke, means pivotally connecting said coupler and yoke and serving to transmit draft forces therebetween, means extending at an angle to, intersecting and supporting said connecting means to aline said coupler and yoke, cushioning mechanism, a slotted follower between the rear of said coupler and said cushioning mechanism, and means supporting said follower.

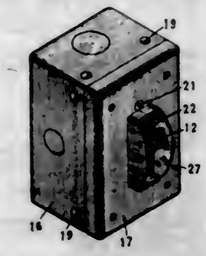
1,687,164. AUTOMOBILE DIRECTION SIGNAL. CARL O. LARSON, Seattle, Wash. Filed May 10, 1927. Serial No. 190,206. 5 Claims. (Cl. 116—53.)



1. In an automobile signal, the combination of stop and direction signs arranged to swing about a horizontal axis, controlling means connected with the respective signs, an actuating device, and two members movable in planes at right angles to each other and engageable indirectly by said actuating device whereby said controlling means are rendered operable to effect the swinging of either of the signs selectively from its inactive position into its display position.

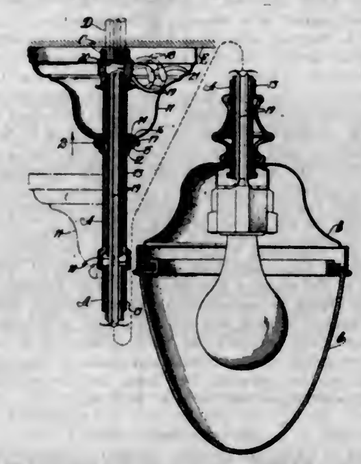
1,687,165. ELECTRIC-SWITCH BOX. HENRY E. LEPPERT, New Britain, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed July 11, 1925. Serial No. 42,935. 4 Claims. (Cl. 200—168.)

1. A snap switch having a sheet metal face plate, an operating lever extending through said face plate and a projecting channel-like sheet metal guard for said lever having lugs near each end of each side extending through said face plate and riveted thereto, said guard projecting from said



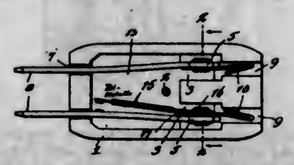
face plate around said lever and forming a finger guide channel only slightly wider than said lever and substantially housing said lever in all its operating positions.

1,687,166. CANOPY FOR CEILING FIXTURES. ROBERT L. LITTLE, Chicago, Ill., assignor to Lindsay Light Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 29, 1927. Serial No. 222,769. 4 Claims. (Cl. 240—85.)



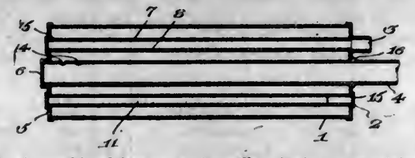
1. In a ceiling fixture, a tube, a sleeve slidable on the tube, a rim on the inside of said sleeve to prevent the withdrawal of said canopy, an enlargement on the tube below the sleeve, and a canopy having an opening adapted to fit over said sleeve and to pass over said enlargement.

1,687,167. CONNECTING PLUG. RANDOLPH M. MANN, Nyack, N. Y. Filed Mar. 18, 1926. Serial No. 95,538. 10 Claims. (Cl. 200—15.5.)



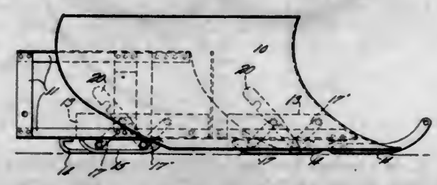
1. A connecting plug comprising co-operating chambered body portions recessed to form pairs of end slots, securing means, a contact blade member inserted in each of said slots and projecting in parallel relation at one end to fit plug slots, and having spring cotacts at the other end within the slots to receive plug blades, one of said blade members including a thermostatic switch within the chamber.

1,687,168. COMBINED HEATER AND MUFFLER DEVICE. WILVER F. MARK, Butler, Ind. Filed Aug. 22, 1927. Serial No. 214,573. 2 Claims. (Cl. 257—16.)



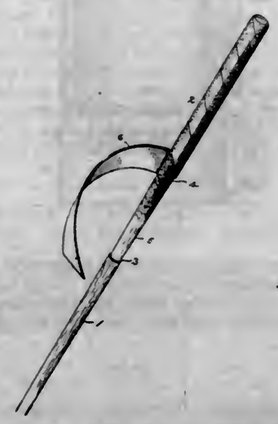
1. A combined heater and muffler device, comprising an outer muffler chamber, a fresh air chamber concentrically arranged within said outer muffler chamber, said fresh air chamber being subdivided by walls into four longitudinal inter-connecting passage-way compartments, inlet and outlet ports in said fresh air chamber, a second muffler chamber concentrically arranged within said fresh air chamber, thereby serving to heat said fresh air chamber internally, said muffler chambers in communication with each other for the reception of exhaust gas by means of a tubular passage-way housed in said fresh air chamber, one of said muffler chambers having an exhaust port, for the purposes set forth.

1,687,169. SNOWPLOW. VINCENT P. MARRAN, Holyoke, Mass. Filed Jan. 6, 1927. Serial No. 159,375. 5 Claims. (Cl. 37—44.)



1. An elevating device for a snowplow, comprising, in combination with the snowplow frame, a ground engaging shoe, spaced parallel links connecting the shoe to the frame and pivotally connected to each, and latching means for holding the links in elevated position comprising a bar pivoted to the shoe near one end for swinging movement independently of the frame and adapted to be swung into a position in which it extends upwardly and rearwardly and is detachably held by a latching engagement to the snowplow frame.

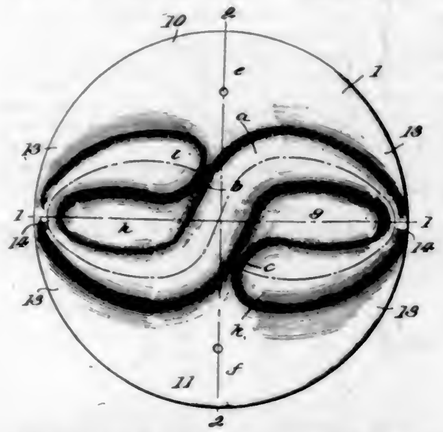
1,687,170. HANDLE GRIP. GEORGE W. MATTERN, Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 24, 1925. Serial No. 71,099. 6 Claims. (Cl. 273—81.)



5. The combination with a handle shaft for a golf club, or the like having therein a peripheral indentation, of a

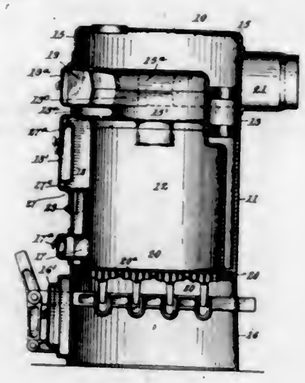
sheath overlapping and extending beyond the peripheral indentation, the material of which is of substantially uniform thickness enclosing a portion of the handle shaft of maximum diameter with the terminal portion of the sheath seated in said peripheral indentation, the surface of such enclosing sheath and the surface of the shaft beyond the indented portion merging uniformly one into the other.

1,687,171. VEGETABLE-PEELING MACHINE. CLAUDE B. MCCATHRON, Rochester, N. Y., assignor to Josiah Anstice & Co. Inc., Rochester, N. Y. Filed Dec. 15, 1927. Serial No. 240,203. 8 Claims. (Cl. 146—49.)



1. In a peeling machine, a rotary peeling and supporting member having an abradant surface, a portion of said surface raised, and said raised portion in the shape of a figure 8.

1,687,172. BOILER. ANDRÉ MANUEL MERTZANOFF, New York, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed May 15, 1925. Serial No. 30,410. 18 Claims. (Cl. 122—218.)

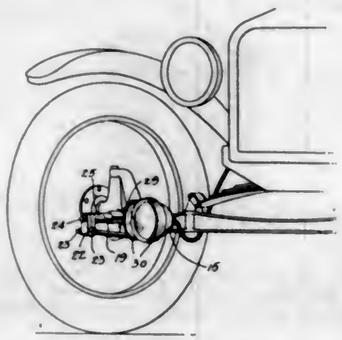


1. A boiler of the type described comprising a plurality of horizontal sections, certain of which jointly form the firepot and combustion chamber whose aggregate inner or heat absorbing surface in relation to grate area is in the proportion of about—

$$1+\frac{4}{r},$$

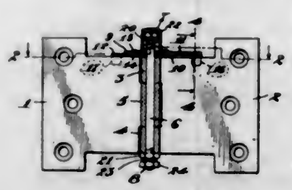
in which r represents the radius of the grate expressed in inches, substantially as specified.

1,687,173. DIRIGIBLE SPOTLIGHT. BOYD F. MILLER, Patton, Calif. Filed Apr. 14, 1925. Serial No. 23,079. 1 Claim. (Cl. 240—62.)



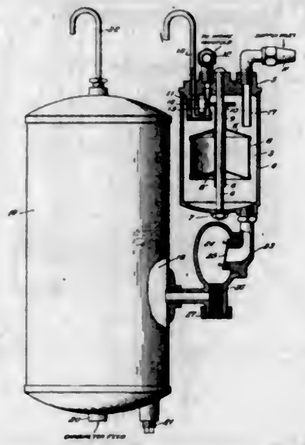
A dirigible spotlight for motor vehicles comprising an elongated supporting member having its opposite ends formed with threaded sockets into one of which the threaded shank of a steering arm extending through an ear of a steering knuckle is adapted to be threaded so as to rigidly secure the member to the steering knuckle in a horizontal forwardly extending position, an L-shaped arm having relatively long and short respectively horizontal and vertical portions exteriorly threaded at their ends, a clamping member comprising a pair of jaws constructed to receive the threaded end of the horizontal portion of the arm therebetween, nuts threaded on the horizontal portion at opposite sides of the clamp to rigidly secure the arm in a longitudinally adjusted position with respect to the clamp, a bolt extending through the jaws of the clamp and threaded into the other of said sockets of the supporting member so as to secure the clamp to the member and clamp the arm against rotation on the clamp in substantially right angular relation to the member, a lamp box provided with a horizontal ear through which extends the vertical portion of the arm, nuts threaded on the vertical portion at opposite sides of the ear for securing the lamp box in vertically adjusted position on the vertical portion.

1,687,174. HINGE. STANLEY F. MOUNTFORD and HOWARD S. MOUNTFORD, Los Angeles, Calif., assignors of one-half to James F. Hood, Los Angeles, Calif. Filed Mar. 16, 1926. Serial No. 95,065. 2 Claims. (Cl. 16—140.)



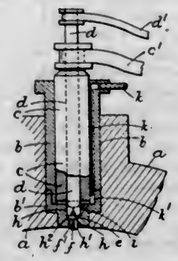
1. A control attachment for hinges comprising superimposed disks having a pair of peripherally disposed arms which normally extend in opposite directions; said arms having pairs of opposed flanges adapted to straddle the hinge leaves, beads formed on one of said disks, sockets provided on the other of said disks and adapted for the reception of said beads, and resilient means to press said disks toward each other to cause said beads and sockets to yieldingly resist relative rotation of said disks.

1,687,175. VACUUM FEED SYSTEM. GUSTAVE C. NELSON, Moline, Ill., assignor to The Borg & Beck Company, Moline, Ill., a Corporation of Illinois. Filed May 13, 1921. Serial No. 469,359. 6 Claims. (Cl. 103—236.)



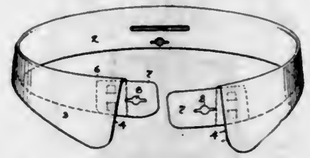
1. In a vacuum feed system, two separate and independent tanks, one having a receiving chamber and the other a feed chamber, a vacuum producing connection to the receiving chamber and an air vent for said chamber, an air vent for the feed chamber, a slidably mounted float operating in said receiving tank, a cut-off disk vertically movable by said float and operating between the vacuum producing connection and the air vent of said receiving chamber to close the same alternately, a pipe connecting the receiving chamber with the feed chamber, a valve chamber in said pipe and intermediate said tanks, a valve in said valve chamber, and a removable screen between the valve chamber and the feed chamber.

1,687,176. MEANS FOR INJECTING LIQUID FUEL INTO INTERNAL-COMBUSTION ENGINES. SIMON DOKK OLSEN, London, England, assignor to The Olsen Engine Syndicate Limited, London, England, a British Company. Filed Mar. 18, 1925, Serial No. 16,457, and in Great Britain Apr. 30, 1924. 4 Claims. (Cl. 123—33.)



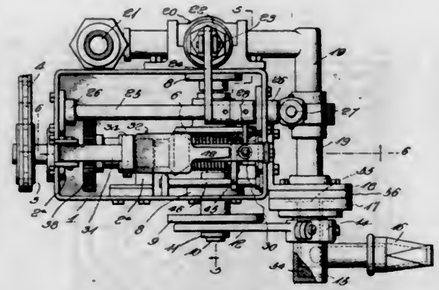
1. In a liquid fuel injector, the combination of an injector cylinder, a plunger working therein, means for supplying fuel to the space in front of said plunger, a by-pass through which air is admitted from the engine cylinder at a point near the fuel inlet for preliminary atomization of the fuel, and means carried by said plunger for restricting, during the actual injection, the passage leading into the engine cylinder, substantially as described.

1,687,177. NECKWEAR. ERNEST P. PARSONS, Cleveland, Ohio; W. M. Baldwin administrator of said Ernest P. Parsons, deceased, assignor to The Parsons & Parsons Company, Cleveland, Ohio. Filed Apr. 12, 1926. Serial No. 101,275. 6 Claims. (Cl. 2—135.)



1. A collar of celluloid or similar material having a slotted neck band, button-hole tabs having slots adapted to register into the slots in the band, said tabs being cemented to said band and extending beyond the end edges thereof, and supplemental means uniting said band and tabs together at and by means of said slots, said means being cemented to said tabs.

1,687,178. SUGAR-SPRAYING APPARATUS. JOHN R. PETERSON, Sugar City, Idaho, assignor to Utah-Idaho Sugar Company, Salt Lake City, Utah, a Corporation of Utah. Filed Apr. 24, 1926. Serial No. 104,490. 14 Claims. (Cl. 210—67.)

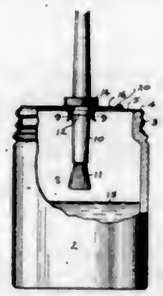


1. A spraying apparatus for sugar machinery comprising a casing, a driving shaft journaled in said casing, an oscillating sprayer nozzle operated from said drive shaft, a pipe line for supplying liquid to said sprayer nozzle, a valve interposed in said pipe line, a timing screw journaled in said casing and driven from said shaft, an auxiliary shaft journaled in said casing and having a pair of oppositely extending crank members, one of said crank members controlling the operation of said valve and the other of said crank members, having means for engaging said timing screw for actuating said valve for controlling the flow of liquid through said pipe line to said oscillating nozzle.

1,687,179. BOTTLE OR JAR COVER. OLE PETERSON, Cleveland, Ohio. Filed Feb. 20, 1926. Serial No. 89,526. 1 Claim. (Cl. 91—67.1.)

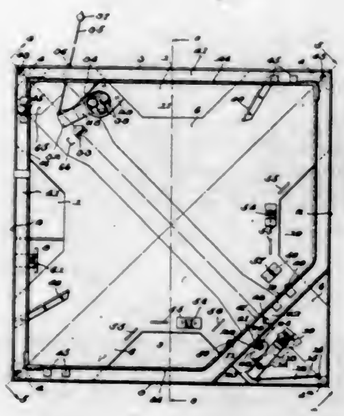
A bottle or jar, having a screw-threaded neck, and a screw-threaded cover detachably connected with said neck, comprising a relatively large round opening having a small recess extending laterally from the edge thereof, a flange of crescent-shape at one side of said large opening, tongues bent downwardly at the edge of said recess, said tongues having flaring extremities adapted to lead the handle of a brush from said large opening into said recess, and a cover plate pivotally secured to said cover having an edge portion corresponding to the edge of said cover and

a lid portion of irregular curvature which provides a semi-circular recess adapted to register with said small recess in the cover, said cover plate being adapted to



engage the handle of a brush inserted within said small recess, and said lid portion being adapted to fit under said flange on the cover when the cover plate is closed.

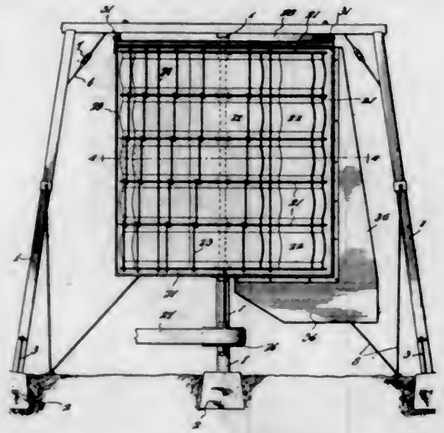
1,687,180. BASEBALL GAME BOARD. HERBERT E. PICKETT, Baltimore, Md. Filed Apr. 14, 1927. Serial No. 183,698. 12 Claims. (Cl. 273—88.)



1. A game apparatus of the character described comprising a box-like structure having a bottom, sides and ends, a platform defining a baseball field arranged intermediate said bottom and the top edges of said sides and ends, said platform being provided with an opening at the catcher's box, and an opening intermediate adjacent bases, a pitching device in one corner of said structure and a batting device in the diagonally opposite corner, and means disposed below said platform for returning to the pitcher's corner the balls passing through said openings.

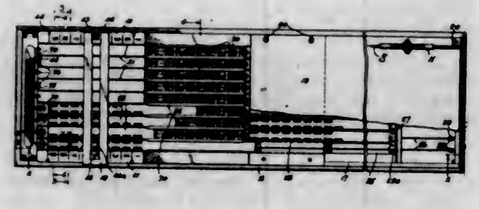
1,687,181. WIND MOTOR. THOMAS B. PREASE, Superior, Ariz. Filed Feb. 24, 1927. Serial No. 170,603. 3 Claims. (Cl. 170—15.)

1. In a wind motor, the combination of a supporting frame, a shaft mounted vertically in the frame, a wind wheel carried by the shaft, a shield of arcuate form disposed adjacent the wheel and movably supported on the frame, an arcuate rigid frame extending from one vertical side edge of the shield and having openings therethrough, the shield and the frame being concentric with and partly housing the wheel, and a steering vane fixed



to and extending vertically the full height of said frame in the same diametrical plane of the wheel as the opposite edge of the shield.

1,687,182. MULTIPLICATION DEVICE. KURT SEIFERT, Los Angeles, Calif. Filed Mar. 27, 1924. Serial No. 702,378. 3 Claims. (Cl. 235—69.)

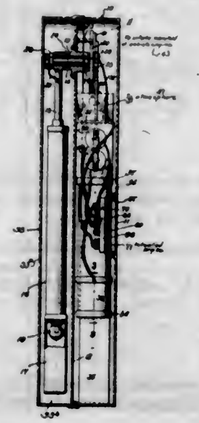


1. A multiplication device comprising a plurality of elements movable to occupy either of two extreme positions, each element bearing multiplicand numerals and other numerals which are multiples of the multiplicand numerals, the digits of each multiple numeral being distinguished from each other to permit combining certain of the digits with the digits of adjacent multiple numerals of adjacent elements, and stationary elements bearing multiplier numerals whereby when those elements are moved from one extreme position to the other and bearing the multiplicand numerals composing the multiplicand of an example, the transversally alined multiple numerals of the elements as determined by the desired multiplier numeral will give the correct product when one multiple digit of each element is considered as constituting one denomination of the product, while the remaining multiple digits of adjacent elements are added to constitute the remaining digits of the product.

1,687,183. TRAFFIC SIGNAL. BERT C. SMITH and THOMAS H. CHANDLER, Long Beach, Calif. Filed June 17, 1925. Serial No. 37,735. 6 Claims. (Cl. 177—329.)

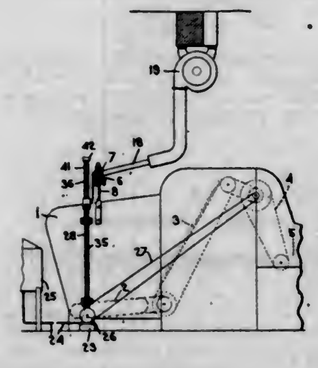
1. A traffic signal comprising a casing open at one side, a closure for the open side of said casing, a bearing secured to said closure adjacent its upper end and extending through the closure with a portion disposed within the casing and a portion projecting from the outer face of the

closure, a hood fitted upon the side portion of the casing closed by said closure and projecting therefrom and formed with a side opening, a shaft rotatable in said bearing and projecting from the inner and outer ends thereof, a signal arm carried by the outer end portion of said shaft and extending radially therefrom and swung into and out of the hood through the side opening formed therein when the



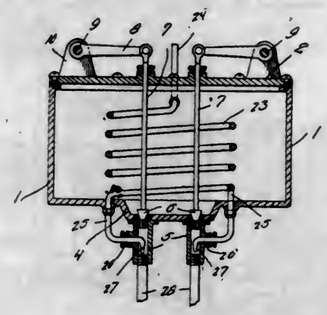
shaft is rotated, the weight of the signal arm normally retaining it within the hood, operating means in said casing connected with the inner end portion of said shaft to rotate the shaft and swing said signal arm out of the hood to a set position, and latch means in said casing to engage a portion of said operating means and releasably retain the arm in a set position.

1,687,184. PROCESS AND APPARATUS FOR CONDITIONING TEXTILE MATERIALS. ALBERT W. THOMPSON, Lowell, Mass., assignor to Parks-Cramer Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 5, 1925. Serial No. 60,371. 18 Claims. (Cl. 19—66.)



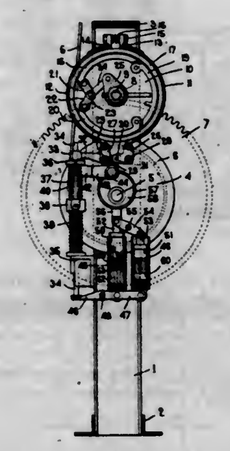
1. The process of delivering liquid to a liquid-distributing means at a predetermined uniform rate which comprises circulating a confined body of the liquid at a rate of flow greater than the desired rate of delivery thereof, maintaining thereby a column of said liquor of a uniform height and delivering the liquid from said column under a predetermined hydrostatic head and uniformly distributing the liquid thus delivered in the form of a spray.

1,687,185. TRACK AND FLANGE LUBRICATOR. MONROE L. TIPTON, Hyndman, Pa. Filed Apr. 8, 1927. Serial No. 182,126. 5 Claims. (Cl. 184—3.)



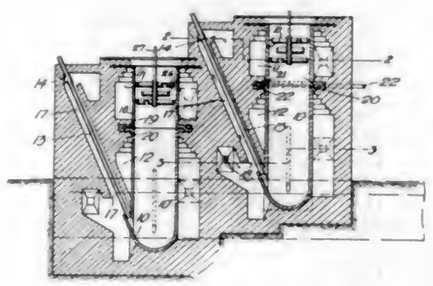
1. In combination, a track and wheel flange lubricator having a lubricant container, valve controlled feed pipes for supplying the lubricant in said container to the track and wheel flanges, means operated by the motion of a locomotive carrying the lubricator for opening and closing said valves in a predetermined manner, remotely controlled means for the last-named means operable to normally limit the opening movement of the valve and to retain the valves in closed position when operated in a predetermined manner and a combined lubricant heating element and feed pipe cleaner carried by the container.

1,687,186. GOVERNING MECHANISM FOR LOAD-HOISTING MACHINES. NATHANIEL WARSHAW, Boston, Mass., assignor to Lewis-Shepard Company, Watertown, Mass., a Corporation of Massachusetts. Filed June 21, 1926. Serial No. 117,588. 9 Claims. (Cl. 188—82.)



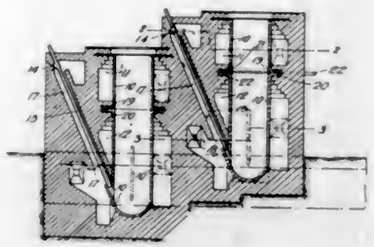
5. Governing mechanism for winches comprising a fluid-containing cylinder, a piston movably mounted therein, means operable by the rotation of the winding drum to actuate said piston, means normally operable to transmit fluid from one side of the piston to the other without substantially increasing the fluid pressure in the cylinder, but operable upon increase in speed of reciprocation in excess of a predetermined speed to increase the fluid pressure in said cylinder, and means operable by such increased pressure to arrest the rotation of the winding drum.

1,687,187. APPARATUS FOR USE IN REFINING OF LEAD BULLION AND SIMILAR OPERATIONS. GEORGE KENNETH WILLIAMS, Port Pirie, South Australia, Australia. Filed Feb. 9, 1927, Serial No. 166,987, and in Australia Mar. 6, 1926. 9 Claims. (Cl. 266—34.)



1. An apparatus for use in the refining of lead bullion and similar operations comprising a vessel within which a deep narrow column of molten material may be maintained having means whereby different temperatures may be applied at different portions thereof and means for independently withdrawing products from at or about the top and at or about the bottom thereof.

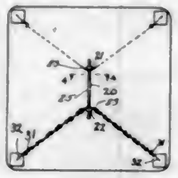
1,687,188. REFINING OF LEAD BULLION CONTAINING OTHER METALS. GEORGE KENNETH WILLIAMS, Port Pirie, South Australia, Australia. Filed Feb. 9, 1927, Serial No. 166,988, and in Australia Mar. 6, 1926. 9 Claims. (Cl. 75—59.)



1. A process for the refining of lead bullion containing alloying metals consisting of incorporating zinc with the said bullion in such quantity and subjecting the same to such differential temperatures that molten layers of conjugate solutions are formed the upper layer comprising an alloy rich in a certain alloying metal or metals and separating such alloy in liquid system.

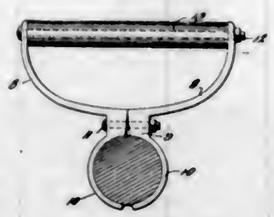
1,687,189. FURNITURE BRACE AND TENSIONING DEVICE. THEODORE H. WITTLIFF, Cleveland, Ohio. Filed Dec. 2, 1925. Serial No. 72,730. 6 Claims. (Cl. 155—197.)

6. A furniture bracing device comprising tension elements, an adjustable coupler member therefor comprising a coupler shank having its opposite end portions reversely threaded and having an intermediate portion for manipulating the same, nuts threaded to the shank end portions, connector members fitted to the shank inwardly of the nuts, said connector members being formed of stamped metal having a perforated central portion and end portions angularly disposed with relation thereto and said end portions having slots at their opposite sides to form key shoulders for engagement with the tension elements and



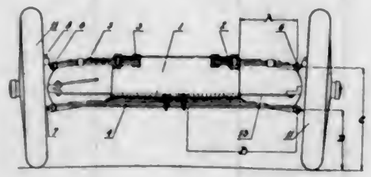
said tension elements consisting of flexible members having open terminal portions interlocked in assembled engagement with said key shoulders.

1,687,190. HANDLE. FRED WULFF, Vega, S. Dak. Filed Dec. 23, 1926. Serial No. 156,664. 1 Claim. (Cl. 294—58.)



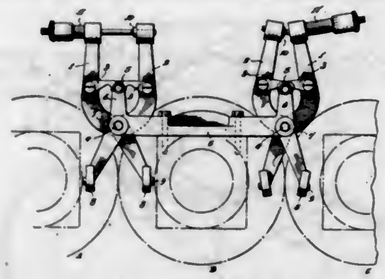
A detachable handle device comprising companion sections of curved formation, rockable companion blocks arranged at the opposite ends of the sections and a continuation thereof and having divergently arranged companion side walls defining a V-shaped opening between the blocks, a bolt arranged within said blocks, a handle clamped between the sections, and clamping jaws, a continuation of said blocks and projecting laterally therefrom.

1,687,191. SUSPENSION WITHOUT AXLES FOR MOTOR VEHICLES. ERNEST MAURICE BALLIOT, Paris, France. Filed Jan. 5, 1925, Serial No. 646, and in France Jan. 14, 1924. 2 Claims. (Cl. 280—106.5.)



1. A suspension without axles for vehicles comprising a chassis, a pair of wheels, a single spring having its ends pivoted to said wheels with its center secured to the center of said chassis, said spring being normally under tension, and a pair of springs each having one end pivoted to a wheel in vertical alignment with the pivot of said first spring and having its remaining end fixedly secured to the chassis adjacent the side thereof.

1,687,192. MICROMETER GAUGE FOR ROLLER MILLS. JAMES T. BARBER, Brooklyn, N. Y. Filed Aug. 31, 1927. Serial No. 216,735. 6 Claims. (Cl. 33—166.)



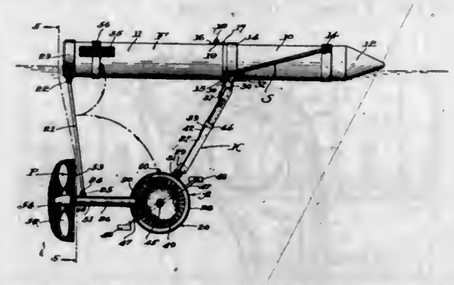
1. In a roller mill, the combination with coacting grinding rolls, of a gauge, means for mounting said gauge upon the mill adjacent said coacting rolls, said gauge comprising gauge members pivoted intermediate their ends, corresponding ends of the gauge members being disposed to come between coacting rolls and an indicating gauge in cooperative relation with the opposite ends of the said gauge members to designate the distance between the centers of the coacting rolls.

1,687,193. CINEMATOGRAPHIC PROJECTION APPARATUS WITH OPTICAL COMPENSATION. LUDWIG BERTELE, Dresden, Germany. Filed Nov. 19, 1927, Serial No. 234,529, and in Germany Oct. 16, 1926. 3 Claims. (Cl. 88—16.8.)

1. A cinematographic apparatus for optical compensation of the movement of a film picture comprising a rotatable disk having a plurality of reflecting surfaces disposed annularly thereof, and curved, prismatic refractors each having varying effective optical distances carried by the disk to render the effective path of rays of light passing through the film of constant length.

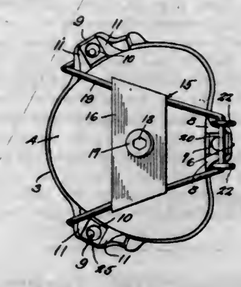
1,687,194. AQUATIC VEHICLE. JAMES F. CALDWELL, Watts, Calif. Filed Oct. 31, 1927. Serial No. 230,012. 14 Claims. (Cl. 9—18.)

1. An aquatic vehicle comprising a pair of floats, means for rigidly connecting the floats in side by side spaced relation and constituting a support on which an operator is adapted to rest, a foldable frame depending from and connected to the floats, propelling means carried by the



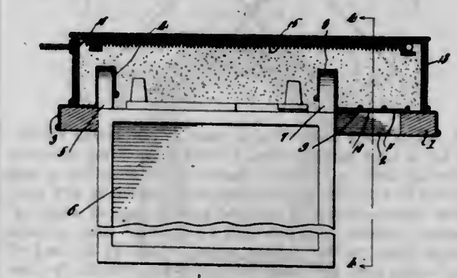
frame, and means carried by the frame for actuating the propelling means and adapted for operation by the feet of the operator when resting on said support.

1,687,195. FLASK CLAMP. HOUSTON M. CARROLL, Sr., San Antonio, Tex. Filed Nov. 29, 1927. Serial No. 236,499. 3 Claims. (Cl. 18—33.)



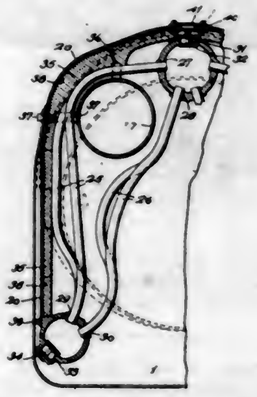
1. A clamp for molding flasks, comprising a main member provided at one end with angularly disposed fingers that are spaced apart transversely and provided with means for engaging the lugs on a flask, a lug-engaging latch pivoted to the opposite end of the main member, and a pressure device operating in the intermediate portion of the main member.

1,687,196. BATTERY HEATER. CARL R. DAELLENBACH, Ellwood City, Pa., assignor to Raymond E. Daellenbach, Ellwood City, Pa. Filed Apr. 1, 1927. Serial No. 180,302. 8 Claims. (Cl. 219—35.)



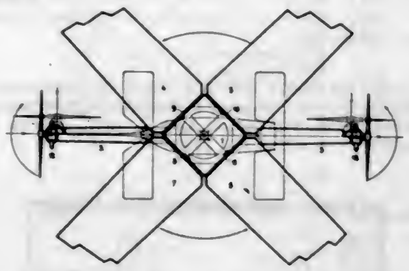
1. A battery heater comprising a base having an opening therein to accommodate a portion of the battery, means for clamping the base to the battery, a cover movably connected to the base to extend over the battery, and an electric heating unit supported by the cover in close proximity to the battery.

1,687,197. WATER-TUBE FIRE BOX FOR LOCOMOTIVE BOILERS. GEORGE H. EMERSON and OLIVER C. CROMWELL, Baltimore, Md. Filed Dec. 1, 1925. Serial No. 72,567. 9 Claims. (Cl. 122—94.)



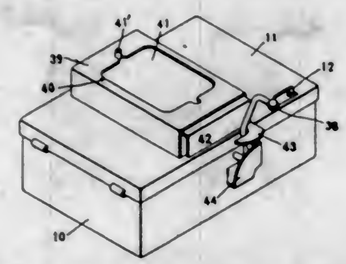
1. In a boiler, a pair of drums arranged one above the other, inner and outer rows of water tubes extending vertically between said drums, the tubes of said inner and outer rows respectively having their upper ends fitted in holes in a side and in the bottom of the upper drum, and the tubes of both rows having their lower ends fitted in holes in the top of the lower drum at the inner side of its vertical center line, said upper drum being provided in its top with an opening lying in its central vertical plane and said lower drum being provided in its bottom with an opening on the outer side of its vertical center, said openings permitting access to the tube ends fitted in the drums, and a detachable closure for the opening in each drum.

1,687,198. AEROHELICOPTER. FRANTIŠEK FORMÁNEK, LADISLAV ZEMAN, and EDMUND ZEMAN, Bratislava, Czechoslovakia. Filed Apr. 18, 1927. Serial No. 184,448, and in Czechoslovakia Dec. 26, 1925. 4 Claims. (Cl. 44—19.)



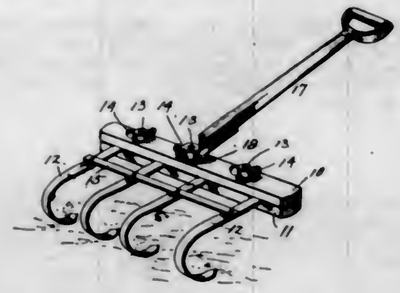
1. An aircraft comprising a fuselage containing a cockpit for a pilot and carrying a rudder, elevating fins and alighting gear, a central framework constituting a hub secured to said fuselage so as to be rotatable at will relatively thereto about an upright axis, a pair of arms extending radially from the hub at opposite sides of said upright axis, the air screws mounted, one at the end of each radial arm, and adapted to be rotated coaxially with said pair of arms or alternatively substantially in a vertical plane parallel with the axis of said arms, means for driving said air screws, and four supporting planes extending radially from the central framework or hub and so attached thereto as to be adjustable angularly at will, simultaneously in the same sense, each about its longitudinal axis, to the desired angle of incidence.

1,687,199. ELECTRIC SWITCH. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Apr. 13, 1926. Serial No. 101,688. 13 Claims. (Cl. 200—5.)



1. An electric switch comprising an insulating switch base, posts carried thereby, blades hinged to said posts, a folding link connecting said blades, an insulating fuse carrying member supported from said posts and having fuse terminals electrically connected to said blades at all times, and means for operating said blades simultaneously.

1,687,200. CULTIVATOR. ROBERT HARRISON GOODMAN, Romance, Ark. Filed June 15, 1925. Serial No. 37,327. Renewed Aug. 24, 1928. 1 Claim. (Cl. 97—64.)



An agricultural implement comprising a beam composed wholly of two bars substantially alike, one above the other, bolts passing vertically through said bars at different points along the length thereof, one being at midlength, and separably clamping the two bars together, ground-working members having shanks that extend between said bars and having holes in the portions lying between the bars, projections on one of said bars extending into said holes, and a rotatably adjustable handle mounted upon the bolt at midlength of the beam.

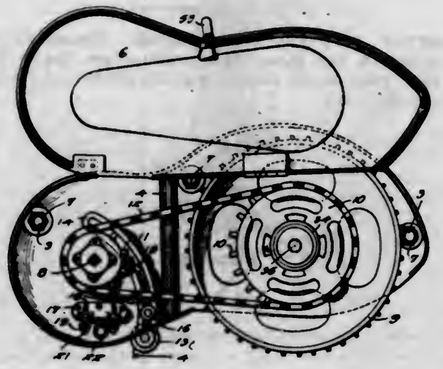
1,687,201. BRUSHING MACHINE. JOHN HAGEN, Bend, Oreg. Filed Feb. 10, 1927. Serial No. 167,311. Renewed Mar. 5, 1928. 6 Claims. (Cl. 15—77.)



1. A brushing machine comprising a frame, longitudinally moving conveyor means thereon, brushing means operatively supported in vertically spaced relation on the

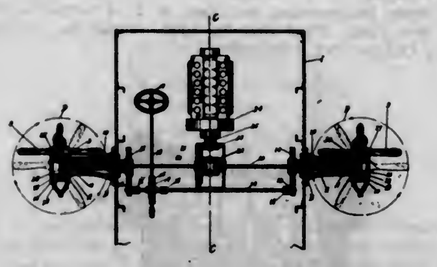
frame, longitudinally disposed guide strips on said frame, a plurality of vertically disposed supporting means on the frame, transversely arranged pressure bars slidably engaged with the supporting means, and guide aprons carried by said bars and overlying said guide strips.

1,687,202. LAWN MOWER. WILLIAM H. HAINES, Thompsontown, Pa. Filed Nov. 17, 1926. Serial No. 148,875. 8 Claims. (Cl. 56—252.)



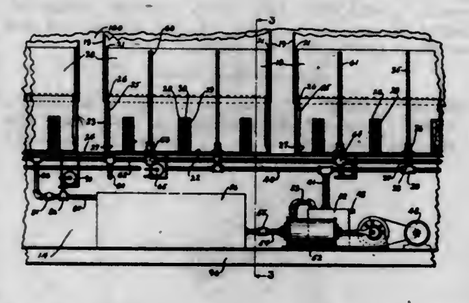
4. A lawn mower comprising a frame, a pair of ground wheels mounted on said frame for independent longitudinal adjustment with respect to said frame, a cutter reel carried by said frame in advance of said ground wheels, power transmitting means for driving said cutter reel from said ground wheels, said power transmitting means including a pair of removable ratchet blocks reversible in position to secure either a forward or reverse rotation of said cutter reel.

1,687,203. AIRCRAFT. CHARLES S. HALL, Los Angeles, Calif. Filed May 24, 1922. Serial No. 563,297. 2 Claims. (Cl. 244—25.)



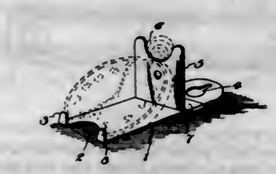
1. In an aircraft, the combination of an aliformous body disposed parallel to the normal line of flight, wings outwardly arranged upon said body, revolvable frames arranged to project outwardly from said body and manually revolvable propellers operatively mounted upon said frames, drive-shafts extending in line across said body and having geared connections at their outer ends with said propellers, differential gearing at the inner ends of said shafts, operatively connected with a motor-shaft, a steering wheel, and geared connections between said wheel and said frames for revolving the latter.

1,687,204. GAS-STORAGE SYSTEM FOR AIRCRAFT. CHARLES S. HALL, Oakland, Calif. Filed Feb. 2, 1926. Serial No. 85,430. 10 Claims. (Cl. 244—3.)



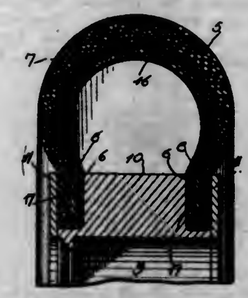
1. An aircraft having a rigid gas holding compartment therein, said compartment including a movable wall, a relief tank, a pipe connecting said compartment and said relief tank, a high pressure gas storage tank and means to withdraw gas from said relief tank and force it into high pressure tank when the pressure in said relief tank reaches a certain amount.

1,687,205. DISPLAY STAND. CHARLES R. HAMLIN, Chicago, Ill. Filed Dec. 5, 1927. Serial No. 237,890. 2 Claims. (Cl. 211—25.)



1. A display stand comprising a base having ears upon one end, an L-shaped supporting plate having guide grooves on one arm thereof slidably engaging the side edges of the base plate, and a recess in the other arm, and means carried by the said plate for frictionally engaging the base plate to hold the supporting plate in adjusted positions thereon.

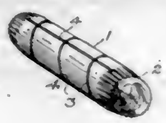
1,687,206. SPRING TIRE. GABRIEL HATVANI, Medina, Ohio. Filed Sept. 17, 1927. Serial No. 220,150. 2 Claims. (Cl. 152—8.)



1. A spring tire comprising a flexible resilient shoe divided circumferentially at its inner side to provide straight-side beads, radially disposed flat metal rings em-

bedded in and extending circumferentially of the beads, and circumferetially spaced radially and transversely disposed substantially U-shaped leaf springs embedded in the side and tread portions of the shoe and having their ends secured to said rings, and smaller U-shaped springs embedded in the shoe between the first springs and also secured at their ends to the rings.

1,687,207. DOWEL PIN AND METHOD OF MANUFACTURE. WILSON S. HAWKER, Dayton, Ohio. Filed Jan. 26, 1926. Serial No. 83,842. 7 Claims. (Cl. 144—12.)



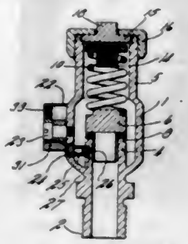
1. The herein described method of pointing dowel pins by simultaneously rolling the opposite ends of the pin under pressure in contact with a corrugated former to compress the ends to tapered corrugated form.

1,687,208. PAPER FINGER FOR TYPEWRITING MACHINES. FREDERIC W. HILLARD, Tottenville, N. Y. Filed Nov. 2, 1922. Serial No. 598,653. 8 Claims. (Cl. 197—139.)



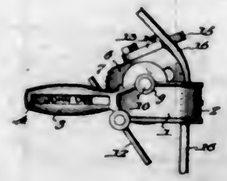
1. In a typewriting machine, the combination with the platen, of a two part paper finger device, one part comprising the paper finger and its carrying arm and the other part being the support therefor, the carrying arm being hinged to the support in such manner that the paper finger may be swung on the support into and out of the work field, means for latching the two parts together in work holding position, such means comprising a spring latch and a banking stop on the support, the latch engaging that side only of the carrying arm whereon it can exert its spring pressure to latch the paper finger in its work holding position on the support and the banking stop engaging the opposite side of the said arm to arrest the arm when it has been brought into its work holding position.

1,687,209. TEMPERATURE AND PRESSURE RELIEF VALVE. FREDERICK M. HOLMES, Springfield, Mass., assignor to Tryco Products, Inc., Westfield, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1927. Serial No. 182,507. 8 Claims. (Cl. 137—53.)



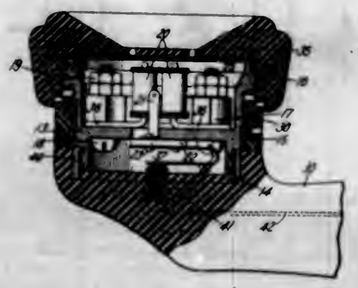
1. A safety valve comprising a valve casing provided with aligned openings and a drain opening, a valve seat between the latter and one of the former openings, a cap threaded on the casing to cover the other opening, a valve closure for said seat, a spring to press the closure to its seat and means to adjust the pressure of the spring comprising a stem, a disc threaded to the stem and having means cooperating with interior shoulders on the valve casing to prevent its turning, a second disc fast to the upper end of the stem and adapted to rest on a ledge of the valve casing in position to be bound to the casing against turning by the said cap, all of said parts being located within the valve casing below said cap, said cap having an opening through which an operating head of said stem is presented for turning to adjust said spring.

1,687,210. PIPE AND TUBE BENDER. WALTER ESTES HOLSCLAW and HARRY ELSTON HOLSCLAW, Evansville, Ind. Filed Dec. 6, 1927. Serial No. 238,157. 1 Claim. (Cl. 153—45.)



The hereindescribed portable pipe and tube bender, comprising a body having a pipe-engaging hook at one end and a handle at its other end to enable said bender to be held by the operator, a sheave having a grooved edge and journalled to the body, said sheave being provided with gear teeth, said sheave and hook lying in substantially the same plane, an elongated bending plate attached to the sheave and lying in the plane thereof, said plate having a hooked end projecting over the grooved edge of the sheave and adapted to grip the pipe or tube to be bent, the first-named hook serving as an abutment for the pipe or tube, a shaft mounted on the body and provided with a pinion which meshes with the gear teeth of the sheave, and a handle whereby said shaft may be turned.

1,687,211. TELEPHONE RECEIVER. WARREN C. JONES, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1926. Serial No. 158,186. 6 Claims. (Cl. 179—119.)



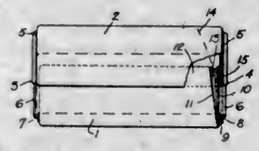
1. A telephone receiver comprising a permanent magnet of cobalt steel and pole pieces for said magnet composed of an alloy consisting chiefly of nickel and iron.

1,687,212. POWER-DRIVEN SCISSORS FOR BARBERS. CHARLES E. KELLIHER, New York, N. Y. Filed Aug. 12, 1927. Serial No. 212,454. 3 Claims. (Cl. 30—13.)



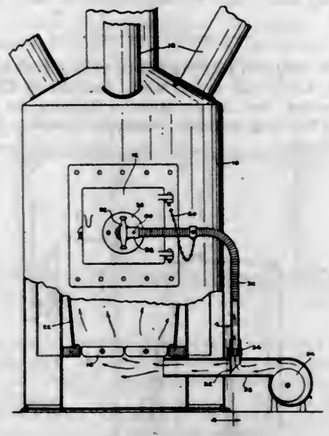
1. In a power driven scissors of the class described, adapted for use by barbers, a bevel pinion attached to a shaft, said bevel pinion meshing with a gear rotatively mounted on a pin, a lever attached to the said bevel gear, a link member pivotally attached to the free extremity of the said lever, said link member pivotally attached to a second lever pivotally attached to a pin, a movable scissor blade member pivotally attached to the said pin, said movable scissor blade member provided with a cutting edge, and provided with an extended element having formed therein a notch adapted to receive the extended member of the said second lever, so as to close the said movable scissor blade member in shearing contact with a fixed scissor blade member, as a means of cutting hair.

1,687,213. COLLAPSIBLE TRUNK, SUITCASE, AND THE LIKE. ERNEST NORBERT KENNEDY, London, England. Filed Apr. 17, 1925. Serial No. 23,767. 5 Claims. (Cl. 190—47.)



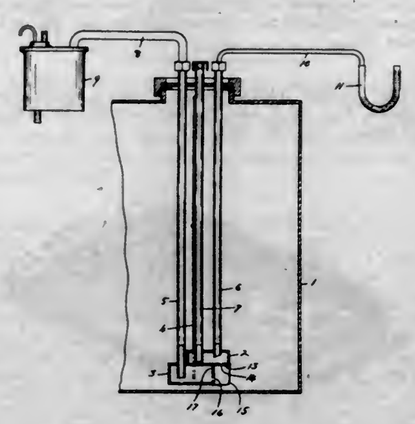
1. An expansible trunk, suitcase, or the like, comprising two telescopically arranged parts, respectively comprising a top wall and a bottom wall, and side and end walls connected thereto, extensible hinge devices connected at opposite ends thereof to the rear walls of said parts and non-extensible in the closed position of said parts, one of said parts having the front wall thereof movable to a limited extent sufficient to permit the upper or lid part to be swung about said hinge devices in any telescoped position of said parts, means between said movable front wall and the adjacent walls of the same part for closing the space between said walls in all positions of said front wall, and extensible fastening devices on the front wall of one of said parts adapted to coact with latching means on the front wall of the other part.

1,687,214. FURNACE ATTACHMENT. FREDERICK D. KENYON, Minneapolis, Minn., assignor of one-half to Harriet R. Root, Hennepin County, Minn. Filed Dec. 20, 1926. Serial No. 155,907. 1 Claim. (Cl. 110—75.)



A furnace attachment comprising a blower, a guide sleeve secured to the inner side of the charging door of the furnace, an air distributor tube slidably mounted in said sleeve, a flexible conduit leading from said blower, a detachable connection for attaching said conduit to the outer end of said tube, a ring detachably secured around the outer end of said tube, and a handle member connected with said ring.

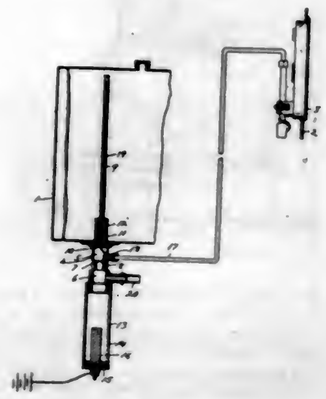
1,687,215. LIQUID-DEPTH-INDICATING DEVICE. HORACE W. KING and WILLIAM E. BANDEMER, Ann Arbor, Mich., assignors to King-Seeley Corporation, Ann Arbor, Mich., a Corporation of Michigan. Filed Nov. 5, 1923. Serial No. 673,002. 5 Claims. (Cl. 73—54.)



1. In a liquid depth indicating device, the combination of a pair of superposed chambers with an imperforate wall between the chambers for preventing direct communication therebetween, the chambers communicating with the liquid to be measured, the upper chamber having a portion laterally offset relative to the lower chamber, said offset portion

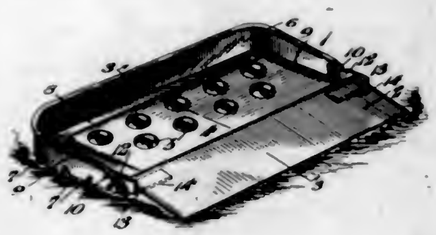
being provided with an opening for the passage of air and the lower chamber being provided with a passageway for air therefrom located with respect to the opening in the upper chamber so that some of the air may pass from the lower chamber through the opening, means for introducing air into the lower chamber, a pressure gauge and means for placing said gauge in communication with the upper chamber.

1,687,216. LIQUID-DEPTH-INDICATING DEVICE. HORACE W. KING, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a Corporation of Michigan. Filed Aug. 4, 1924. Serial No. 730,097. 6 Claims. (Cl. 73—54.)



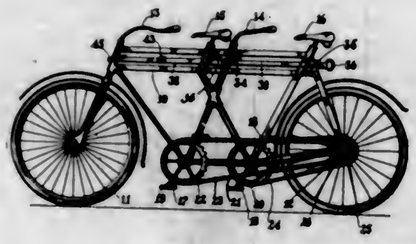
3. The combination with a pressure gage and a tank containing a liquid, of a fitting secured to the lower side of said tank and provided with an opening registering with an opening in the tank, an air chamber mounted upon said fitting and extending within said tank, said air chamber communicating with the liquid at the full depth to be measured and also communicating with said gage, and an electrolytic cell secured to and depending from said fitting and communicating with said air chamber through the opening in said fitting.

1,687,217. GOLF GAME BOARD. PHILIP KURTZ, Philadelphia, Pa. Filed Jan. 13, 1928. Serial No. 246,427. 5 Claims. (Cl. 273—36.)



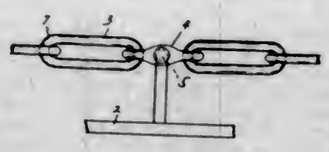
1. In a foldable golf game board, a putting green area having holes therein, a rear gutter therefor merging into side gutters, a guard rail surrounding said gutters, and a front inclined member hinged at its rear ends to the front ends of said guard rail.

1,687,218. TANDEM BICYCLE. JAKOB KUTARNA, Regina, Saskatchewan, Canada. Filed July 27, 1927. Serial No. 208,704. 3 Claims. (Cl. 208—108.)



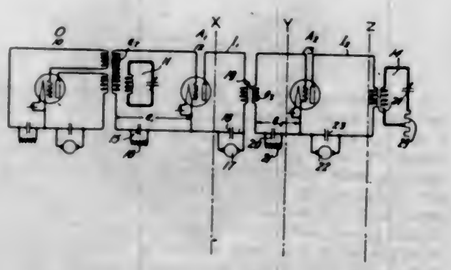
1. In a tandem bicycle, a slidable member provided with tapered portions adapted to engage the rear seat post and the rear handle bars of a tandem bicycle, as a means of raising and lowering the said rear handle bars and a rear seat attached to the said rear seat post.

1,687,219. BALING PRESS. GEORGE W. LANGFORD, Ann Arbor, Mich., assignor to Economy Baler Company, Ann Arbor, Mich., a Corporation of Michigan. Filed Apr. 5, 1923. Serial No. 630,079. 2 Claims. (Cl. 100—12.)



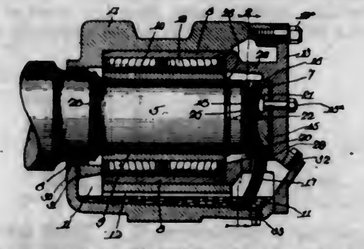
1. In a baling press, the combination with a baling chamber having an open end, of a plunger movable longitudinally within said chamber and transversely of its open end and adapted to remain in a substantially horizontal position at all times, and means for moving said plunger to its different positions.

1,687,220. ELECTRIC-WAVE PRODUCER. SAMUEL S. MACKEOWN, Ithaca, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1923. Serial No. 668,797. 11 Claims. (Cl. 179—171.)



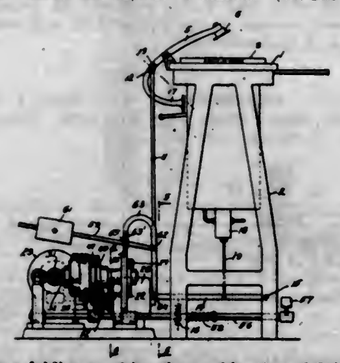
1. The method of amplifying a wave which comprises amplifying the peaks of one polarity only of the wave to be amplified and amplifying the peaks of one polarity only of the resulting wave.

1,687,221. CAR-AXLE BEARING. LEE W. MELCHER, West De Pere, Wis. Filed Dec. 4, 1926. Serial No. 152,547. 16 Claims. (Cl. 308—41.)



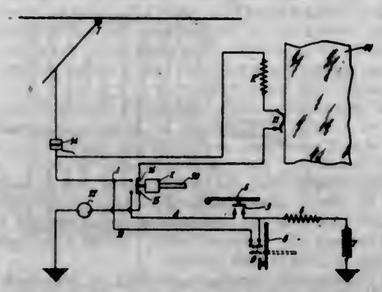
11. In a car axle bearing, the combination of a box having an oil well in its lower portion, an axle extending into the box, rollers around the axle and above the well, a wall in the box forming a completely cylindrical outer bearing for the rollers, means for feeding oil from the well to the outer end of the bearing so it will be applied to the rollers and confine the oil so it will pass to the inner end of the bearing, and means at the inner end of the bearing for returning the oil to the well.

1,687,222. FOLDING MACHINE. LOUIS H. MORIN, New York, N. Y., assignor to Phillips-Jones Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 2, 1925. Serial No. 54,035. 6 Claims. (Cl. 223—55.)



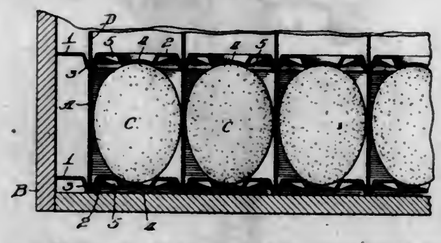
1. In a folding machine the combination of fluid-operated means for applying pressure to a folded fabric, means under the control of the operator for initiating the action of said fluid operated pressing means, and means for automatically releasing the pressure after a predetermined time interval.

1,687,223. CAR-DOOR CONTROL. GEORGE E. OAKLEY, Albany, N. Y., assignor, by mesne assignments, to Consolidated Car-Heating Company Inc., Albany, N. Y., a Corporation of New York. Filed June 17, 1925. Serial No. 37,792. 9 Claims. (Cl. 105—341.)



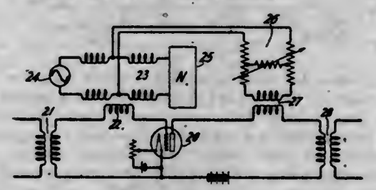
8. The combination with a car door motor of a control circuit for said motor, a switch controlling said circuit, the operation of said switch being controlled by the agency which actuates the motor, a circuit maintaining switch, a movably mounted floor treadle controlling said last mentioned switch, a motorman's signal, and means controlled by said treadle for automatically setting said signal.

1,687,224. FLAT FOR CELLULAR FILLERS. LEOPOLD OXHANDLER, Chicago, Ill., assignor, by mesne assignments to Meyer Dry, Chicago, Ill. Filed May 28, 1926. Serial No. 112,193. 4 Claims. (Cl. 17—26.)



4. A flat of the character described, comprising a sheet of approximately uniform thickness having parts displaced out of the plane thereof and dividing it into raised squares separated from each other by troughs open on one face of the sheet, the sides of the troughs constituting the supporting walls for the raised squares, the material of the squares being displaced to produce trough-shaped cushioning ribs lying below the plane of said squares to reinforce the supporting side walls for said squares and form liquid retaining wells.

1,687,225. FREQUENCY-TRANSLATING CIRCUITS. EUGENE PETERSON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, a Corporation of New York. Filed Jan. 29, 1927. Serial No. 164,413. 15 Claims. (Cl. 179—171.)

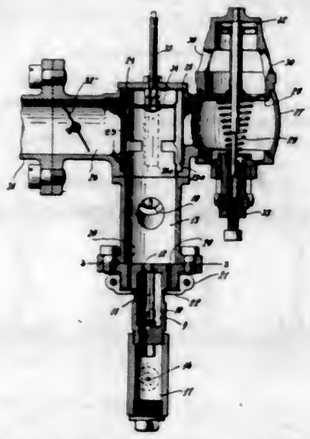


1. A frequency translating circuit comprising an electric discharge device, input and output circuits therefor tending to produce frequency tansiation due to current flow through said device in both of said cicuits, and means for effectively preventing frequency translation in one of said circuits.

1,687,226. APPARATUS FOR PRODUCING OIL VAPOR. ALEXANDER THOMAS PORTER, Elizabeth, N. J. Filed Sept. 23, 1920. Serial No. 412,301. 1 Claim. (Cl. 48—107.)

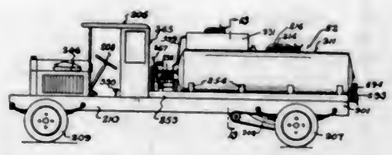
An apparatus for vaporizing oil comprising an oil vaporizing chamber having a vapor exit opening, means for supplying oil to said chamber, means for supplying a combustion supporting medium circumferentially to said atomized oil, means for igniting that portion of said oil to which the combustion supporting medium has been supplied by said last-named means to produce a tubular form flame adapted to transform the unignited portion of the atomized oil into vapor adapted to escape from said chamber through the exit opening thereof, means for controlling the supply of combustion supporting medium, means for extinguishing said flame at the exit opening of said chamber, means for supplying a combustion supporting medium to said vapor after the same has passed from said chamber, means for regulating the sup-

ply of combustion supporting medium admitted to said vapor, the last-named means being in the form of a valve having spring tension means coacting therewith for re-



tarding the operation thereof, and also a dash pot adapted to cooperate with the valve for further retarding its operation.

1,687,227. METHOD FOR CONCRETE MIXTURES. JOHN D. POWELL, Cincinnati, Ohio. Filed Oct. 25, 1926. Serial No. 144,044. 7 Claims. (Cl. 83—73.)



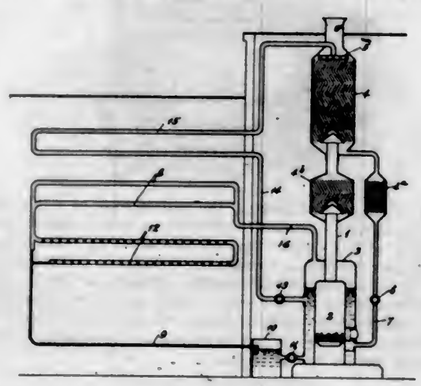
1. A method for concrete mixtures which comprise mixing the mixture with heated ingredients into a heated web mixture at a locality prior to transportation, then transporting said heated wet mixture in batches and agitating said batches of said heated wet mixture during such transportation while substantially excluding outside air from said batches of said heated wet mixture during such transportation and agitation, and heat insulating said heated wet mixture during such transportation.

1,687,228. PROCESS OF MAUFACTURING ACETALDEHYDE. HUGH S. REID and WALDO C. HOVEY, Shawinigan Falls, Quebec, Canada, assignors to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Filed Dec. 21, 1922. Serial No. 608,335. 6 Claims. (Cl. 260—139.)

1. In a process of manufacturing acetaldehyde by interaction of acetylene and water, the feature of supplying the acetylene at a rate more than four times the rate of its absorption.

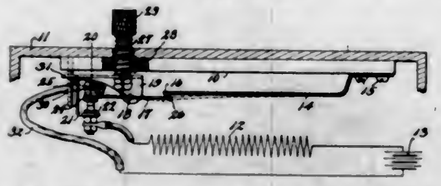
1,687,229. APPARATUS FOR UTILIZING IMPURE GASES OR EXHAUST GASES CONTAINING CARBON DIOXIDE. FRIEDRICH RIEDEL, Essen, Germany, assignor to Riedel Fertilizing Process Co., Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 8, 1922, Serial No. 542,149, and in Germany May 14, 1916. 8 Claims. (Cl. 47—17.)

1. An apparatus of the character described, comprising a heating plant heated by ignited carbonaceous fuel, a vessel adapted to be uniformly heated by said plant to cause a continuous evolution of gas and vapor from the liquid contents of said vessel, the vessel being further adapted to contain an alkaline solution, means for introducing products of combustion of the said fuel to the alkaline solution and a conduit leading from said vessel at a point above the level of said solution to the vicinity of growing



plants and there provided with a plurality of orifices, said conduit being unobstructed so as to discharge near such plants and solely under the relatively gentle expansive force of the gases and vapors produced by evaporation in said vessel, carbon dioxide produced in said vessel by the heating of said solution.

1,687,230. THERMOSTAT. WELLINGTON J. SMITH, Cleveland, Ohio. Filed Aug. 24, 1926. Serial No. 131,241. 2 Claims. (Cl. 200—139.)



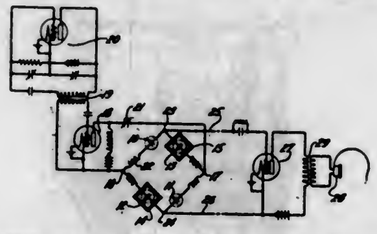
1. In thermostatic controlled apparatus, the combination with a support, of a frame movably carried thereby, an arm outstanding from the frame and having a return portion substantially parallel to the frame, a lever pivoted to the frame and having a portion extending between the frame and return portion of the arm, a contact carried by the return portion of the arm, a contact carried by the lever in position to engage the first mentioned contact, and thermally controlled means for swinging the lever for breaking such contact.

1,687,231. TRANSLATING DEVICE. JAMES BUCKNER SPEED, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1924. Serial No. 750,738. 7 Claims. (Cl. 179—171.)

1. A translating circuit comprising an air condenser, means to impress a difference of potential between the plates of said condenser and an output cuircuit connected to said condenser, the spaces between the plates being sufficiently small that the air pressure therein may be varied by sound waves impressed upon the air between the plates whereby the capacity of the condenser is varied to convert the impressed sound waves into electrical vibrations in said output circuit.

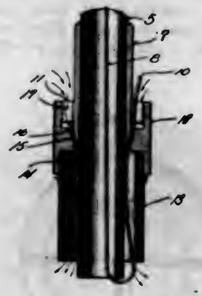
2. A translating circuit comprising an air condenser, means to impress high frequency electrical vibrations between the plates of said condenser and an output circuit

connected to said condenser, the spaces between the plates being sufficiently small that the air pressure therein may be varied by sound waves impressed upon the



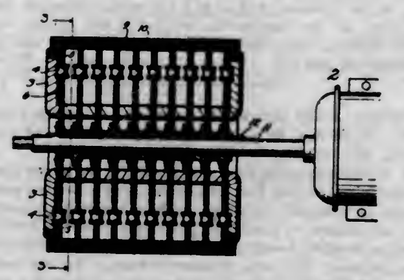
air between the plates whereby the capacity of the condenser is varied to modulate the electric vibrations in accordance with the impressed sound waves.

1,687,232. FUSE. ALWIN G. STEINMAYER, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 19, 1927. Serial No. 214,122. 5 Claims. (Cl. 200—127.)



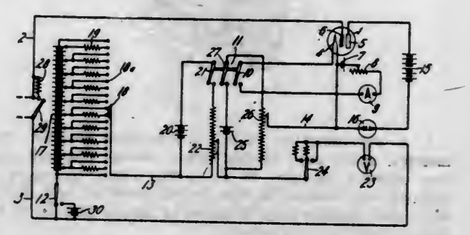
1. A fuse, comprising a tube, contact members, a fuse element connected with the contact members and having a part lying without the tube, a second tube surrounding the first tube whereby the portion of the fuse element without the first tube is substantially enclosed by the second tube, rupture of the fuse element expelling the gases generated within the first tube to create a suction adjacent the end of the second tube, and means whereby the gases generated within the second tube are drawn off by the suction created within the first tube.

1,687,233. DYNAMO-ELECTRIC MACHINE. HUGH M. STOLLER, Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 8, 1923. Serial No. 644,071. 10 Claims. (Cl. 171—252.)



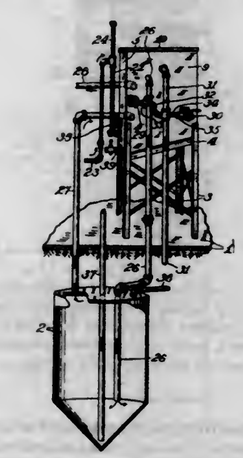
3. An inductor generator comprising two relatively movable elements each having a plurality of uniformly spaced teeth, the ratio of the tooth pitch for one element to the tooth pitch for the other element being as 3 to 2, and the slot widths of the element having the smaller tooth pitch being twice the corresponding tooth widths, and an armature coil on each tooth of the element having the larger tooth pitch.

1,687,234. THERMIONIC PEAK VOLTMETER. DONALD MERCER TERRY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 10, 1926. Serial No. 114,971. 3 Claims. (Cl. 175—183.)



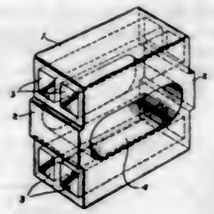
1. A peak voltmeter comprising an election discharge device having input and output circuits, a current indicating device in said output circuit, terminals for impressing upon said input circuit a voltage to be measured, a source of potential in said input circuit for maintaining the normal current in said output circuit at a definite operating value, a second source of potental in said input circuit for reducing the current in said output circuit to said operating value when the voltage to be measured is connected to said terminals, and means for directly indicating the value of the potential of said second source to give the value of the voltage to be measured.

1,687,235. WASHING-LIQUID CLARIFIER AND PURIFIER. FRANK E. BOWERS, Indianapolis, Ind. Filed June 24, 1926. Serial No. 118,343. 8 Claims. (Cl. 210—44.)



1. A washing-liquid clarifier and purifier having a water-wash chamber, a storage tank arranged lower than the water-wash chamber, a drying-chamber provided with drying means, a conduit connected with the water-wash chamber and the tank, and a conduit connected with the tank and the drying-chamber.

1,687,236. HEAT REGENERATOR. JOHN R. BUFFINGTON, New York, N. Y., assignor to Decarie Incinerator Corporation, New York, N. Y., a Corporation of New York. Filed July 28, 1926. Serial No. 125,563. 7 Claims. (Cl. 72—155.)



1. A substantially cubical regenerator element symmetrical about each central plane, tenons disposed upon two opposite surfaces in a central plane, passage-ways through said element in the central plane of said tenons, and other passage-ways disposed in planes parallel to the central plane of said tenons.

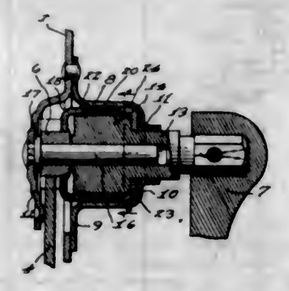
1,687,237. RESILIENT TRANSMISSION FOR VEHICLE WHEELS. ELBERT A. CORBIN, Jr., Swarthmore, Pa., assignor of one-third to William C. Biddle, Lansdowne, Pa., and one-third to William A. Brown, Philadelphia, Pa. Filed Sept. 10, 1927. Serial No. 218,604. 6 Claims (Cl. 152—45.)



1. The herein described power transmitting member in the form of a ring having projecting from opposite faces spaced driving elements distributed over substantially the entire areas of such faces to form rows of driving elements in spaced relationship longitudinally of the rows.

1,687,238. WINDOW-REGULATOR MECHANISM. WILLIAM F. COSTELLO, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Mar. 24, 1927. Serial No. 178,062. 9 Claims. (Cl. 192—8.)

3. In a window regulator mechanism, the combination with a support including a cup, of a driving member journaled in said cup and having a portion within said cup provided with a recess, a pin upon said support and forming a bearing within said cup for said driving member, a driven member journaled upon said pin and having a projection extending into the recess of said driving member, and a coil spring within said cup and arranged to be



expanded thereagainst, said coil spring having inturned ends engaging in the recess in said driving member upon opposite sides of said projection.

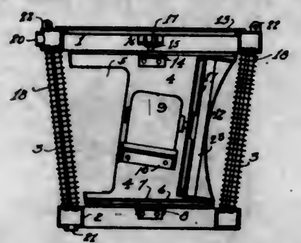
1,687,239. EDUCATIONAL TOP. CHARLES S. CROSS, Brooklyn, N. Y.; Alexander B. Boyer administrator of said Charles S. Cross, deceased. Filed July 2, 1927. Serial No. 203,014. 5 Claims. (Cl. 46—32.)



1. A toy top comprising a hollow spherical body, a map depicted on the outer surface of said body, a spindle diametrically positioned through the body and having bearing at opposite ends through the diametrically opposed portions of the body, the bearing portion at one end of the spindle adapted to serve as a tip for supporting the body in one position when used as a top, a base member mounted on the other bearing portion of the spindle exteriorly of the body for supporting the latter in upright position upon a flat surface, said base member having a drum portion thereon adapted to receive a spinning cord for initiating the rotation of the spindle, and a balance wheel mounted within the body on the spindle for balancing the spindle in upright position when raised on the base member and when spinning on said tip.

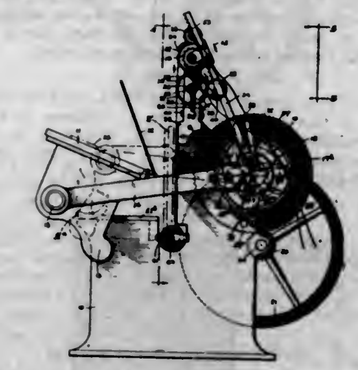
1,687,240. UNIT HEATER. CLAUDE M. GARLAND, Chicago, Ill. Filed Jan. 26, 1926. Serial No. 83,942. 14 Claims. (Cl. 257—154.)

4. In apparatus of the type described, an upper annular header, a connection for the admission of a heating medium to the said header, a lower annular header, a connection for the exhaust of the heating medium from the said lower annular header, heating elements establishing communication between the said headers whereby an inclosure is formed by the said heating elements, a cover for closing the opening in the upper header, means for closing the opening in the lower header, and means for causing a current of air to pass from without between a portion of said heating elements to the interior of the inclosure and out between a different portion of the said heating elements, and means for causing the said current of air to rotate about the



center of the said inclosure whereby the said current of air is caused to continuously pass between different portions of the said heating elements.

1,687,241. VARIABLE FEEDING MECHANISM. WILLIAM F. GRUPE, Lyndhurst, N. J., assignor to Peerless Roll Leaf Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 9, 1925. Serial No. 8,038. 14 Claims. (Cl. 41—7.)



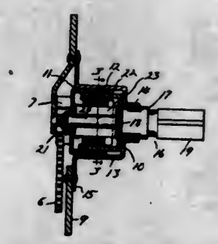
1. The combination with suitable die-holding means, suitable means for feeding an article to be impressed by the die and suitable means for actuating said feeding means, of a plurality of feeding rolls, means for supporting a plurality of strips of impression media to be fed by said feeding rolls respectively, a plurality of devices for individually actuating said feeding rolls by a movement including an initial stage of substantial period at a relatively low speed, and means for adjustably connecting said devices respectively with said actuating means in synchronism therewith and to regulate the extents of feeding of the respective strips of impression media fed by said feeding rolls relative to the die.

1,687,242. FOLDABLE MILKING-PAIL HOLDER. ESTHER OVERBO GULSETH, Yoman, Wash. Filed Mar. 1, 1927. Serial No. 171,871. 10 Claims. (Cl. 31—54.)



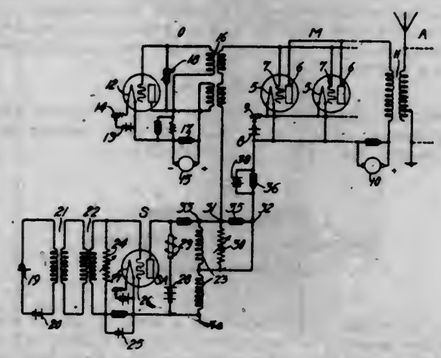
1. In a foldable milking pail holder, a ring strap, knee hooks attached to and diametrically positioned on said ring strap, and means to adjust the angle of inclination of said knee hooks.

1,687,243. LOCK FOR WINDOW REGULATORS. HOWARD B. HASKINS, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 1, 1926. Serial No. 145,504. 10 Claims. (Cl. 192—8.)



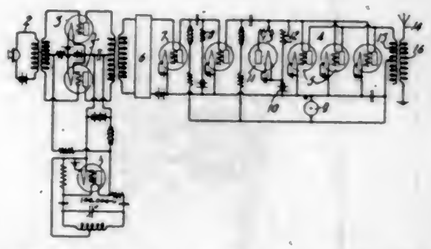
1. In a window regulator, the combination of a stationary sleeve, laterally adjacent driving and driven members journaled in said sleeve, said driven member being operatively connected to a window, pairs of diametrically opposite fingers extending transversely from said driving and driven members, said fingers inter-engaging, and a helical spring within and normally frictionally engaging said sleeve, said spring surrounding said fingers and having inturned ends located between a finger of said driven member and the fingers of said driving member, whereby rotation of said driving member in either direction contracts said spring and releases the same from frictional engagement with said sleeve and through said spring rotates said driven member but rotation of said driven member expands said spring into firmer frictional engagement with said sleeve and locks the driven member from rotation.

1,687,244. SIGNALING SYSTEM. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1920, Serial No. 432,444. Renewed Nov. 20, 1924. 21 Claims. (Cl. 179—171.)



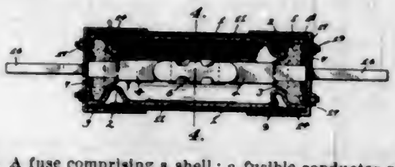
1. A thermionic vacuum tube, an impedance controlling element and a cathode for said tube, an input circuit comprising said impedance controlling element and said cathode, a source of signaling current adapted to impress a voltage on said input circuit which causes the impedance controlling element to become positive with respect to the cathode during operation, and an impedance connected across said input circuit of value substantially the same as that of the input impedance of said tube when said impedance controlling element is positive.

1,687,245. AMPLIFYING. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1922. Serial No. 609,932. 9 Claims. (Cl. 179—171.)



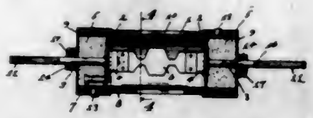
1. The method of repeating at high efficiency, as regards power consumption, a modulated wave by means of a space discharge repeater having a control element, which comprises supplying to the control element a negative voltage of such a value as to just allow the repetition of waves of small amplitude and automatically increasing this negative voltage in a ratio proportional to the magnitude of the waves when waves of large amplitude are to be repeated.

1,687,246. RENEWABLE FUSE. JOHN H. HICKEY, San Francisco. Calif. Filed Aug. 5, 1926. Serial No. 127,336. 8 Claims. (Cl. 200—131.)



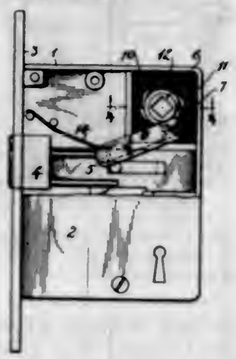
1. A fuse comprising a shell; a fusible conductor mounted within the shell and extending longitudinally therethrough; contact plates mounted within the ends of the shell in connection with the ends of the conductor; means for sealing the ends of the shell around the conductor and plates to permit the shell to be evacuated; a detachable cover enclosing the shell; and means for detachably retaining the cover upon the shell, said means being adapted to form electrical connection between the contact plates and a fuse block.

1,687,247. REFILLABLE FUSE. JOHN H. HICKEY, San Francisco, Calif. Filed Sept. 29, 1926. Serial No. 138,433. 12 Claims. (Cl. 200—128.)



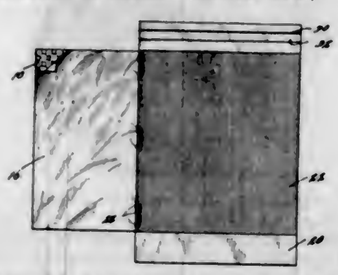
1. A refillable fuse comprising a shell; a pair of conductors mounted in longitudinally spaced relation within the shell, said conductors comprsing discs fitted into the shell in spaced relation to the ends thereof, stems extending outwardly from the ends of the shell, and lugs extending inwardly from the discs; a fusible conductor of predetermined current carrying capacity connected between the lugs; cement fillings set within the space between the discs and the adjacent ends of the shell to seal the same; conductive caps mounted upon the ends of the shell and arranged to engage the contacts of a fuse block; said caps being recessed to receive the outwardly extending ends of the stems; and means for detachably securing the caps in connection with the shell and in electrical contact with the stems.

1,687,248. HOSPITAL LATCH. NORMAN B. HURD, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Sept. 28, 1927. Serial No. 222,587. 3 Claims. (Cl. 292—139.)



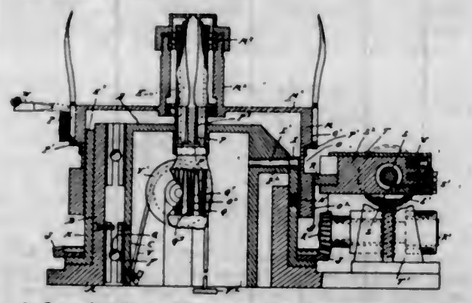
1. In a latch of the character described, a case, a bolt, a roll back, means of connection between the roll back and the bolt for reciprocating the latter as the roll back is turned, a shoulder on the roll back and a stop within the lock case to check the stop on the roll back, one of said parts being formed of sound deadening material.

1,687,249. PAD FOR PERMANENT WAVING OF HAIR. BENNO F. JANCKE, Brooklyn, N. Y., assignor to Townsend Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 4, 1928. Serial No. 244,428. 12 Claims. (Cl. 132—36.2.)



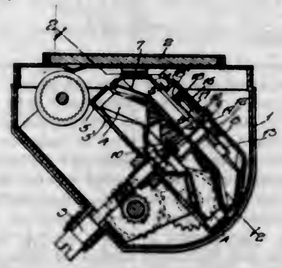
1. In a pad for permanent waving of hair, an absorbent body comprisng a sheet having portions of unequal absorbent properties whereby heat will initiate steaming in the portions of lesser absorptiveness.

1,687,250. WORK HOLDER FOR BRUSH MACHINES. CONRAD JOBST, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Co., Toledo, Ohio, a Corporation of Ohio. Filed Apr. 1, 1924. Serial No. 703,375. 21 Claims. (Cl. 300—11.)



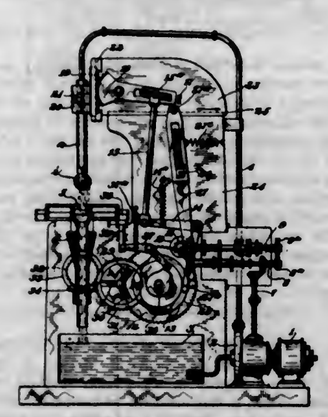
1. In a brush machine, a vertically adjustable journal bearing, a drum carrier mounted on said bearing for rotation about a fixed axis, a cam revolnble about the same axis provided with a series of parallel steps of exactly predetermined spacing comprising alternate series respectively ascending and descending, means for non-positively rotating said carrier, a cam follower connected to said bearing and engaging said cam, a series of parallel work holders on said drum carrier, a stop mounted independently of said carrier and guide means on said carrier cooperating with said stop for exactly predetermining the path of movement of the same during the ascending and descehding series of steps.

1,687,251. SPEEDOMETER CONSTRUCTION. ARTHUR H. JOSEPH, Detroit, Mich., assignor to The Mileometer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 3, 1923. Serial No. 666,356. 3 Claims. (Cl. 264—13.)



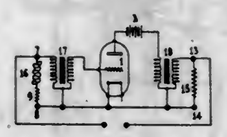
1. In combination, a movable indicator carrying a cam, means for driving said indicator, and means to prevent vibration of said indicator and retrieve it to its zero position, said last-mentioned means comprising a pair of springs, and anti-friction means carried at the end of one of said springs and engageable with said cam, the second spring engageable with said anti-friction means, at the side of said cam opposite to that upon which the first-mentioned spring is arranged, after an initial movement of the cam, to equalize the pressure on the anti-friction means.

1,687,252. MACHINE FOR FORMING INTERNAL GROOVES IN GEARS, ETC. JEAN LAESSKER, Arbon, Switzerland, assignor to Societe Anonyme Adolphe Saurer, Arbon, Switzerland, a Corporation of Switzerland. Filed Aug. 1, 1927. Serial No. 209,657. 1 Claim. (Cl. 51—50.)



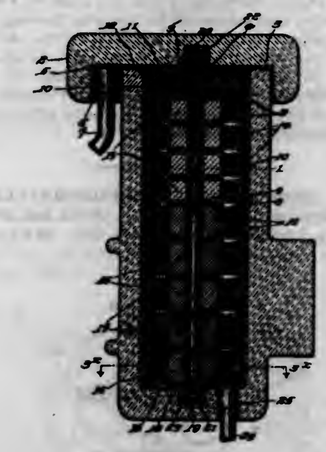
In a machine for cutting grooves the combination of a work table, a rotary cutting tool above the table, a turbine for driving the cutting tool so arranged that impelling liquid discharged therefrom will contact with the cutting tool to cool it and will fall onto the table, a tank for the impelling liquid, means for withdrawing the impelling liquid from the tank and delivering it to the turbine, and means for conducting the impelling liquid discharged onto the table to the tank.

1,687,253. NEGATIVE IMPEDANCE DEVICE. MARIUS LATOUR, Paris, France, assignor to Latour Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Nov. 20, 1923, Serial No. 675,833, and in France Dec. 5, 1922. 2 Claims. (Cl. 179—171.)



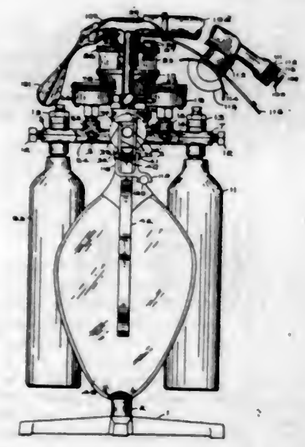
1. In apparatus for producing a negative impedance, a vacuum tube amplifier comprising an anode, a cathode and a control electrode, an impedance connected in circuit between said cathode and said control electrode, a transformer having its windings inserted in the control circuit of said amplifier, and a second transformer inserted in the output circuit of said amplifier.

1,687,254. MULTIGAP LIGHTNING ARRESTER. JOHN ROBERT MCFARLIN, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 11, 1922. Serial No. 528,491. 1 Claim. (Cl. 175—30.)



A lightning arrester comprising a plurality of pairs of contacting gap electrodes having oppositely projecting peripheral ridges, hollow spools within said ridges and each spacing an electrode of one pair from an electrode of an adjacent pair, said spools being of different resistivities, and an insulating rod passing through said spools and spaced from the inner surfaces, thereof, said rod having thereon means for clamping said spools and electrodes together.

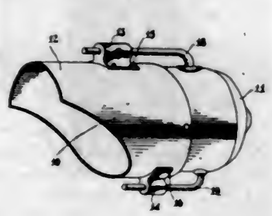
1,687,255. GAS-ADMINISTERING APPARATUS. ELMER I. MCKESSON, Toledo, Ohio. Filed Sept. 12, 1921. Serial No. 500,051. 8 Claims. (Cl. 128—203.)



2. A gas administering machine embodying a main support unit comprising a pair of yokes, a pair of valve mounting means, ducts from the yokes to the valve mounting means, an automatic valve for each mounting means, a chamber for each valve, and an additional duct exterior of said support unit and directly from a valve chamber at one mounting means to the valve chamber at the other mounting means for gas direct flow in one direction from one of said chambers to the other.

5. A gas administering machine embodying a main support, a pair of valves carried by the support, a housing for each valve, bags connected to the valve housings, valve controlling means between the bags and valves, and means carried by and extending between the valve housings and adjustable to modify the controlling means for simultaneously varying the control for both bags whereby there is pneumatic bag response for more closely approximating pressure equilibrium therebetween.

1,687,256. SHADE FOR AUTOMOBILE HEADLIGHTS. EMERY MOLNAR, Flemington, N. J. Filed Jan. 20, 1928. Serial No. 248,081. 4 Claims. (Cl. 240—48.4.)



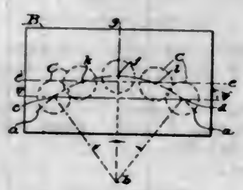
1. In a headlight comprising forwardly extended prongs, an extensible shade slidably mounted on said headlight, brackets on said shade having apertures therein through which said prongs extend, and a wedge shaped key in the aperture of each of said brackets between the inner side thereof and said prongs extending substantially the length of said brackets adapted to be driven rearwardly for frictionally holding said extensible shade on said headlight.

1,687,257. WIRE CABLE. ARTHUR MORTON, Seattle, Wash. Filed Jan. 27, 1927. Serial No. 164,037. 1 Claim. (Cl. 117—59.)



A cable composed of a central core of hemp strands and a plurality of adjacent subcables arranged around the hemp core, all in contact with each other and with the hemp core, each subcable comprising a central round core and intermediate round strands smaller in diameter than the diameter of the central round core and surrounding the central round core and outer strands greater in diameter than the diameter of the intermediate strands and surrounding the intermediate round strands, each of the outer strands being semi-circular in cross section upon their nether surfaces and the outer surface of each said outer strand being formed to represent an arc of a complete circle surrounding the central hemp core.

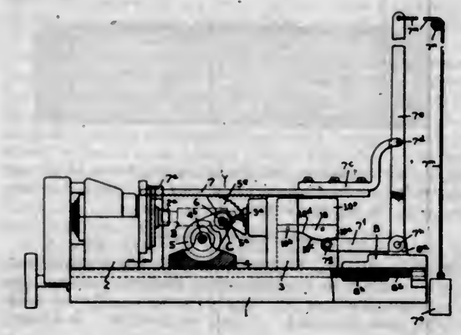
1,687,258. PROCESS OF MAKING STEERING-GEAR-ACTUATING MEMBERS HAVING VARYING SPIRAL GROOVES. DAVID E. ROSS, La Fayette, Ind., assignor to Ross Gear & Tool Company, La Fayette, Ind., a Corporation of Indiana. Filed Dec. 31, 1923. Serial No. 683,679. 12 Claims. (Cl. 90—15.)



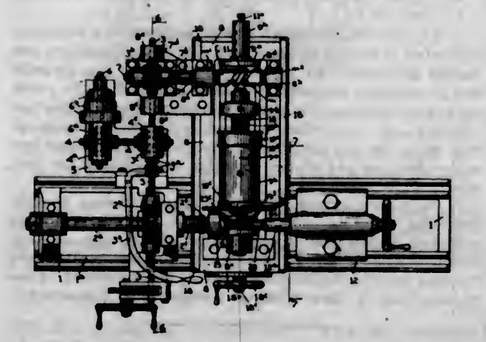
1. The herein described method of producing an actuating member having a varying spiral groove; consisting in (1) mounting a cylindrical blank for rotation on its longitudinal axis opposite a cutter whose axis is perpendicular to a plane containing the axis of the blank; (2) rotating the cutter to cut the blank; and (3) producing during this cutting operation such a variable ratio of relative movement between the cutter and the blank that the cutter operates on the blank on an arc which arc lies in a plane parallel to the plane containing the axis of the blank and traverses such arc with varying speed of lateral movement thereby producing a varying spiral groove in the blank.

1,687,259. MACHINE FOR MAKING ACTUATING MEMBERS FOR STEERING GEARS. DAVID E. ROSS, La Fayette, Ind., assignor to Ross Gear & Tool Company, La Fayette, Ind., a Corporation of Indiana. Filed Mar. 26, 1924. Serial No. 702,067. 34 Claims. (Cl. 90—15.)

1. In a machine for cutting helical grooves; means for holding a blank; a rotatable cutter; and means for so relatively moving the cutter and blank that the cutter traverses with varying speed an arc extending longitudinally of the blank, whereby a groove is cut in the blank, said groove being of the greatest depth at points intermediate its central point and each end thereof and gradually lessening in depth from said points toward each end of the groove.



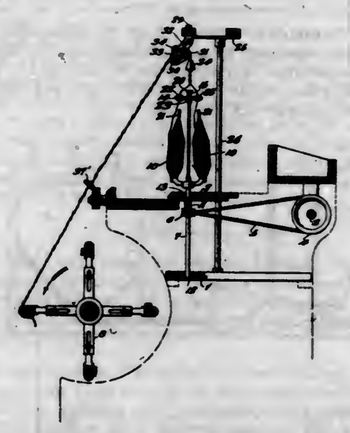
1,687,260. MACHINE FOR MAKING HELICALLY-GROOVED ACTUATING MEMBERS FOR STEERING GEARS. DAVID E. ROSS, La Fayette, Ind., assignor to Ross Gear & Tool Company, La Fayette, Ind., a Corporation of Indiana. Filed Mar. 26, 1924. Serial No. 702,068. 16 Claims. (Cl. 90—15.)



1. In a machine of the character specified, the combination of means for holding and rotating an actuating member blank, a rotatable cutter; means for relatively moving the cutter and blank to cause the cutter to enter or withdraw from the blank; and means including a master cam whereby the cutter is moved at variable speed laterally on an arc extending longitudinally of the blank, during the cutting operation, whereby a spiral groove is cut in the blank.

1,687,261. YARN-TWISTING DEVICE. WILLIAM SPINK, Manayunk, Pa. Filed May 2, 1927. Serial No. 188,098. 7 Claims. (Cl. 117—26.)

7. In a device of the character stated, means for supporting and rotating a plurality of cops, a tension device above said cops comprising a bracket, a support therefor, a pair of lower rollers carried by said bracket, a spring pressed arm pivotally mounted on said bracket, an upper roller carried by said arm and positioned between said lower rollers and a vertically slotted cone shaped guide intermediate said cops and bracket and supported from the latter.

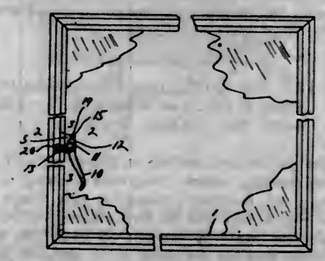


1,687,262. BATTERY-TERMINAL ADAPTER. VERSAL V. VAUGHN, Los Angeles, Calif. Filed June 8, 1927. Serial No. 197,355. 5 Claims. (Cl. 173—259.1.)



1. A battery terminal bushing formed of soft metal and having an elongated tapered skirt provided with a longitudinal slit open at one end and a flange formed around the outer periphery of the skirt at its other end, and closing said slit.

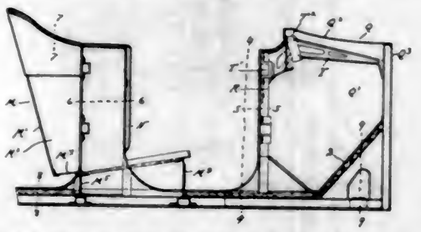
1,687,263. FASTENER FOR VENTILATORS. GUSTAF IVAR BARCLAY, Detroit, Mich., assignor to Detroit Steel Products Co., Detroit, Mich., a Corporation of Michigan. Filed May 26, 1924. Serial No. 716,040. 10 Claims. (Cl. 292—202.)



1. The combination of a support, a handle at one side of said support, a pivot for said handle extending through said handle and support and provided with a head at one

end and a threaded portion at the other end, and a resilient yoke embracing said handle and support and having a portion threadedly engaging said pivot threaded portion and another portion abutting said pivot head.

1,687,264. VEHICLE BODY. PAUL E. BRENNEMAN, Detroit, Mich., assignor, by mesne assignments, to Murray Body Corporation, a Corporation of Michigan. Filed Sept. 28, 1920, Serial No. 413,054. Renewed Aug. 7, 1926. 21 Claims. (Cl. 296—28.)



1. In a metallic body for vehicles, a base section, comprising side sills fashioned to lie in contact with the sills of the chassis and having their rear portions in a higher plane than the forward portions with inclined portions connecting the same, a cross member arranged above the forward lower plane portions of the sills adjacent to the inclined portions thereof and forming a part of the floor, a tonneau seat pan resting directly on the rear portions of said sills and having a depending heel board portion and a floor board arranged between said sills and between said heel board and cross member to lie flush with the latter.

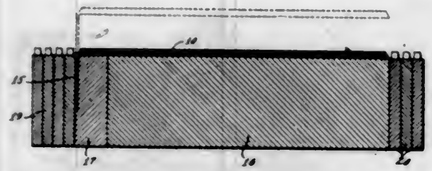
1,687,265. PISTON. HAROLD CAMINEZ, Farmingdale, N. Y. Filed Apr. 2, 1927. Serial No. 180,497. 12 Claims. (Cl. 74—108.)



1. A piston construction of the class described comprising a piston body, a sleeve in said piston body, a piston pin oscillatably mounted in said sleeve, a roller bearing mounted in said piston on said sleeve, said piston having an integral bearing portion through which said sleeve may be inserted endwise and which locates the roller bearing in the center of the piston, and means at the ends of said piston pin for connection to adjacent pistons.

1,687,266. ART OF MOUNTING PHOTO-ENGRAVING PLATES. HARRY J. COLEMAN, Pelham, N. Y. Filed Aug. 20, 1926. Serial No. 130,440. 2 Claims. (Cl. 101—384.)

1. The herein-described method of preparing and mounting photo-engravings, which comprises etching a metal plate to form a cut, forming a relatively thin flange on the plate at the top of the cut in removing all other waste metal beyond the edges of the cut to leave the finished photo-engraving, bending the flange back, where it joins the cut, at right angles to the back of the cut, providing a base-block and a longitudinally rabbet-grooved strip-like piece of furniture of some height and length as the width of the base-block, fitting the ungrooved high side of the piece of furniture to the top edge of the base-block, setting up in the form the type and furniture which is to adjoin the base-block and said strip-like piece of furniture, thereby providing a groove between the set up matter and the strip-like piece of furniture, and inserting the flange of the cut into the groove by moving the cut directly toward and parallel with the set up matter.



1,687,267. SHOE. PERCY COX and FRANK MCPARTLAND, Johnson City, N. Y., assignors to Endicott Johnson Corporation, Endicott, N. Y., a Corporation of New York. Filed Aug. 26, 1927. Serial No. 215,738. 9 Claims. (Cl. 36—19.)



1. In a McKay shoe, a continuous calk welt stapled to the inner sole through the upper and extending around the sole and heel portions between the outer sole and upper.

1,687,268. EGG PRODUCT AND PROCESS FOR PRODUCING THE SAME. ALBERT K. EPSTEIN, Chicago, Ill. Filed Dec. 24, 1926. Serial No. 156,995. 8 Claims. (Cl. 99—14.)

1. The method of manufacturing a frozen egg substance consisting of adding to egg content an edible substance producing hydrogen ions when in contact with egg material and in sufficient proportion to materially modify the physical characteristic of the ultimate product after freezing and thawing and to substantially reduce bacterial decomposition when the egg content is at normal room temperature before freezing and during thawing, and freezing the final mixture.

5. As a new article of manufacture, a frozen product including egg yolk combined with an edible acid and in sufficient proportion to materially modify the physical characteristic of the ultimate product after freezing and thawing and to substantially reduce decomposition when the egg yolk is thawed out at normal room temperature.

1,687,269. EGG PRODUCT AND PROCESS FOR PRODUCING THE SAME. ALBERT K. EPSTEIN, Chicago, Ill. Filed Dec. 24, 1926. Serial No. 156,997. 10 Claims. (Cl. 99—14.)

1. The method of producing an egg product consisting of adding to egg yolk an edible acid capable of and in sufficient quantity to reduce bacterial decomposition of the yolk substance at ordinary room temperatures; incorporating a sufficient proportion of a substantially neutral edible water soluble salt system to substantially modify to a desirable degree the viscosity and mobility of the acid treated yolk after freezing and thawing, and freezing the mixture.

2. As a new article of manufacture, a frozen product consisting of egg yolk combined with an edible acid capable of and in a proportion sufficient to reduce bacterial decomposition of yolk, and a sufficient proportion of a suitable substantially neutral edible salt system to substantially modify the product and to produce a viscosity and mobility thereof of a desirable degree after freezing and thawing.

1,687,270. EGG PRODUCT AND PROCESS FOR PRODUCING THE SAME. ALBERT K. EPSTEIN, Chicago, Ill. Filed Dec. 24, 1926. Serial No. 156,998. 14 Claims. (Cl. 99—14.)

1. As a new article of manufacture, a frozen product including, essentially egg yolk combined with a substantial quantity of a suitable substantially neutral edible water soluble organic material containing at least one hydroxyl group and capable of lowering the freezing point of water, and a substantial quantity of a suitable edible substantially neutral salt system, the combined proportion of the latter two substances being in sufficient quantity to produce a viscosity of the ultimate mixture when thawed after being frozen which is substantially greater than that of an ultimate product when thawed after being frozen consisting of yolk combined with such soluble organic material if used alone in a proportion equal to the said sum of the soluble organic material and the salt system.

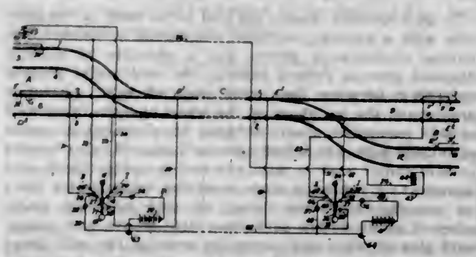
6. As a new article of manufacture, a frozen product including essentially egg yolk material treated with a suitable edible acid capable of and in sufficient proportion to reduce bacterial decomposition of the yolk substance, combined with sucrose and sodium chloride in sufficient quantity to substantially modify the physical consistency and produce an ultimate product when thawed after being frozen which has a viscosity substantially less than the acid treated yolk thawed after being frozen.

1,687,271. INVISIBLE HINGE. JOSEPH SOSS, Brooklyn, N. Y. Filed July 20, 1926. Serial No. 123,767. 2 Claims. (Cl. 16—164.)



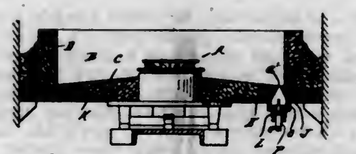
1. A hinge butt for mounting in a cylindrical socket in a support, comprising a substantially U-shaped sheet metal body, the crosshead of said body constituting the inner end of the butt, the side members of said butt forming the bearings of the butt, the outer ends of said side members having laterally extending flanges, the edges of said flanges being arc-shaped in form to fit within said cylindrical socket, and the side edges of said bearing members engaging the walls of the socket in mounting the butt therein.

1,687,272. CONTROL OF RAILWAY TRAINS. WALTER JOHN UNDERWOOD, Chelsea, London, England. Filed June 5, 1926, Serial No. 113,947, and in Great Britain Mar. 30, 1926. 5 Claims. (Cl. 246—26.)



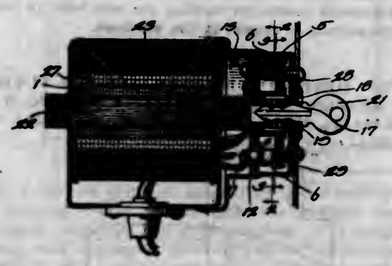
1. For electrically controlling the traffic on a single track railway section, the combination with electrically continuous track rails of the section and a station at each end of the same, of a line conductor extending between the two stations, a traffic-controlling device and a source of current at each station, two alternative operating circuits, one including the traffic-controlling device and the source of current at one station, the other including the traffic-controlling device and the source of current at the other station, but each circuit including the line conductor, a controlling switch at each station having a normally neutral position, contacts on the switches and connections thereto enabling the switches to close one only of the operating circuits at a time to move a train from one station on to the section, an additional circuit auxiliary to the operating circuit, and an additional contact on each controlling switch for closing the said auxiliary circuit by the simultaneous movement of both switches from their neutral positions.

1,687,278. IGNITER FOR OIL BURNERS. CHARLES F. WARRICK, Detroit, Mich., assignor to Penberthy Injector Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 18, 1926. Serial No. 142,485. 6 Claims. (Cl. 158—4.)



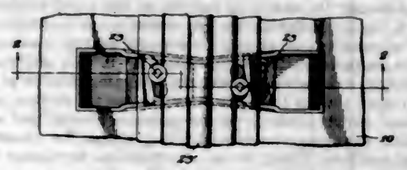
1. The combination with an oil burner and a fire-pot in which said burner is placed, of an igniter comprising a casing embedded in the bottom wall of the said fire-pot, said casing being provided with a narrow slotted nozzle opening upward into the pot and having a bottom closure removable from beneath said pot.

1,687,274. AUTOMOBILE VEHICLE IGNITION SYSTEM. FELIX J. WATTS, Bronson, Mich., assignor to Harry A. Douglas, Bronson, Mich. Filed Mar. 7, 1927. Serial No. 173,583. 20 Claims. (Cl. 175—361.)



1. The combination with an inducing circuit containing a primary winding; of a second circuit containing a gas igniting element and a winding that is in secondary relation to said primary winding; a third circuit adapted for induced relation to the primary circuit and to impair the inducing relation of this circuit to the second circuit and thereby render said gas igniting element inoperative; and means for putting the third circuit into and out of such effective induced relation to the primary circuit.

1,687,275. RAIL SUPPORT. GEORGE WIEBLER, Fort Madison, Iowa; Harry B. Wiebler, Chicago, Ill.; and Walter T. Wiebler, Davenport, Iowa, assignors of fifty-five per cent to Byron M. Cheney, Chicago, Ill. Filed Sept. 10, 1927. Serial No. 218,613. 5 Claims. (Cl. 238—265.)



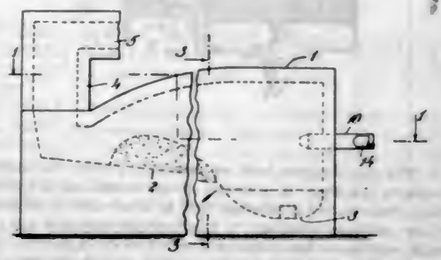
1. A support for a railway rail comprising a metal box having the side walls thereof tapered inwardly toward the transverse center line of said box, and a pair of wedge members arranged to enter the tapered portions of said box from opposite ends thereof.

1,687,276. INDICATOR. MOSES H. WINKLER, Meridian, Miss. Filed June 28, 1927. Serial No. 202,089. 5 Claims. (Cl. 40—96.)



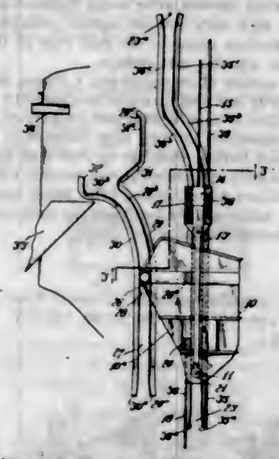
1. A portable indicator for foot-ball games comprising a casing having windows, a pair of endless belts within the casing having indicating numerals adapted to be exposed through the windows, said belts being so arranged that they overlap and press against each other at adjacent ends, and independent means for moving the said belts to cause selected numerals to appear in the windows.

1,687,277. METHOD AND APPARATUS FOR PURIFYING METALS. HARRY H. ALEXANDER, Westfield, N. J. Filed Oct. 28, 1925. Serial No. 65,309. 2 Claims. (Cl. 75—62.)



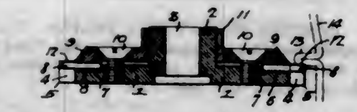
1. The method of melting and refining copper which comprises impinging hot combustion gases against the surface of a charge of copper and thereby progressively melting the copper while subjected to a purifying asmosphere, and controlling said purifying atmosphere by regulating the amount of air and fuel used in the formation of said combustion gases in accordance with the nature and composition of the impurities present in the charge, said regulation being effected in accordance with periodic determinations of the character and amount of impurities present in the molten copper.

1,687,278. OVERTURNING SKIP APPARATUS. ANDREWS ALLEN, Glencoe, Ill., assignor to Allen & Garcia Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 21, 1926. Serial No. 156,163. 15 Claims. (Cl. 214—120.)



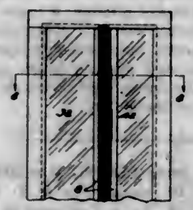
1. In combination, a hoisting skip, a cross-head, pivotal connections between said cross-head and said skip, shaft guides adapted to be engaged by said cross-head and said skip during the travel of said skip in the shaft, tipple guides adapted to be engaged by said cross-head during the dumping operation of said skip, a plurality of tipp'e guides for said skip and means on said skip adapted to engage the said skip tipple guides to guide the skip after said skip is freed from engagement with said first mentioned guides, all of said tipple guides for said skip being curved outwardly from the shaft.

1,687,279. PATTERN WHEEL FOR KNITTING MACHINES. WILLIAM C. AUSTIN, Philadelphia, Pa., assignor to David P. Austin, Philadelphia, Pa. Filed May 22, 1926. Serial No. 111,005. 2 Claims. (Cl. 66—50.)



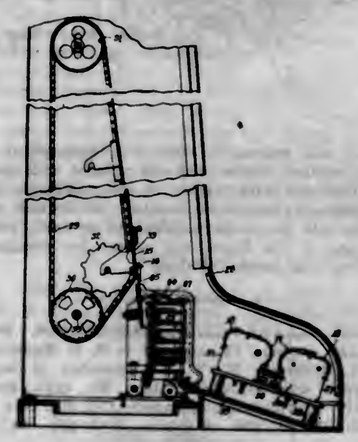
2. In a pattern wheel, adapted to be used in conjunction with a knitting machine, comprising a circular disc having a concentric groove and a plurality of radially disposed grooves formed therein, the said radial grooves extending between the outer wall of said concentric groove and the periphery of the wheel and the inner wall of said concentric groove forming an abutment in radial alignment with said radially disposed grooves; pins located in said radial grooves with one end in contact with said abutment; a retaining plate overlying said circular disc; an annular depending flange on said retaining plate, adapted to fit within said concentric groove and engage said pins therein; and means for pressing the said flange against said pins and thereby press the pins against the base of said concentric groove, for rigidly maintaining said pins in position.

1,687,280. SPEAKING PANEL FOR JAILS OR THE LIKE. BLUFORD W. BROCKETT, Cleveland Heights, Ohio, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 17, 1927. Serial No. 161,599. 10 Claims. (Cl. 189—5.)



1. A speaking panel for jails or the like, comprising a plate provided with an opening, said opening being closed by foraminous material in sheet form with the sheets extending generally transversely to the plane of the plate and the edges of the sheets being presented to the opposed surfaces of the plate.

1,687,281. APPARATUS FOR MEASURING PRODUCTION. PETER A. COONEY, Chicago, Ill., assignor, by mesne assignments, to Electrecorder Corporation, Dover, Del., a Corporation of Delaware. Filed Mar. 17, 1926. Serial No. 95,248. 42 Claims. (Cl. 235—92.)

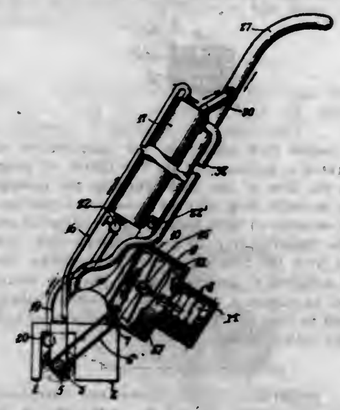


1. In apparatus of the character described, the combination of a movable member, means for driving said member at substantially constant speed, and control means including an electric circuit and switch adapted for control by a shop machine and operative thereunder to disconnect said member from its driving means when and only when the rate of production of the shop machine falls below a predetermined minimum.

1,687,282. DETACHING HOLLOW FLEXIBLE BODIES FROM THEIR MOLDS. EMIL CZAPEK and RICHARD WEINGAND, Bomlitz, near Walsrode, Germany. Filed Apr. 5, 1927, Serial No. 181,257, and in Germany May 30, 1925. 5 Claims. (Cl. 18—57.)

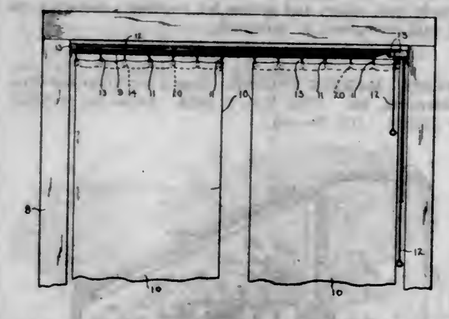
1. The method of detaching molded flexible, substantially cap shaped hollow bodies from their molds and removing them therefrom without manual operation of the bodies, which method consists in angularly directing a jet of liquid onto and against the mold carrying such hollow bodies, thereby filling said bodies with liquid and causing them to slip off the molds.

1,687,283. FLOOR CLEANER. WILLIAM DEUTSCHER, New York, N. Y. Filed June 18, 1926. Serial No. 116,873. 5 Claims. (Cl. 15—50.)



1. In a cleaning device, the combination of a movable casing having a vertical passage therein through which liquid can be drawn, a suction pipe having an inlet end communicating with the said passage, means adapted to lower the air pressure in the said suction pipe, said casing underneath the inlet end of the said suction pipe being provided with a trap for liquid, whereby when the operation of the said means is stopped, any liquid draining back from the said suction pipe is collected in the said trap, and a second suction pipe connected to the lower portion of said trap whereby it is adapted to drain the liquid collected therein, the first mentioned suction pipe and the second suction pipe being connected to the same suction means.

1,687,284. CURTAIN FASTENER. HULDA DUBOLD, Milwaukee, Wis. Filed Mar. 20, 1926. Serial No. 96,216. 4 Claims. (Cl. 156—20.)



1. A curtain fastener, comprising two elongated strips of material, complementary fastening members easily detachably connecting the strips together at a plurality of points, and suspension members rigidly and directly connected to and forming part of the fastening members on one of the strips.

1,687,285. INSULATING MATERIAL. WARREN M. EMERSON, Chicago, Ill., assignor, by mesne assignments, to Certain-teed Products Corporation, a Corporation of Maryland. Filed Feb. 9, 1925. Serial No. 8,059. 14 Claims. (Cl. 106—20.)

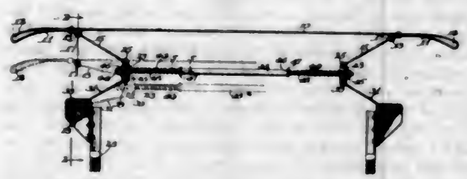
1. A dry mixture, comprising calcined gypsum as the major ingredient, a carbonate, aluminum sulphate, a colloid, and an acid retarder.

1,687,286. LIQUID-FLOW REGULATOR. PHELPS M. FEESE, Detroit, Mich. Filed Nov. 15, 1926. Serial No. 148,536. 4 Claims. (Cl. 251—127.)



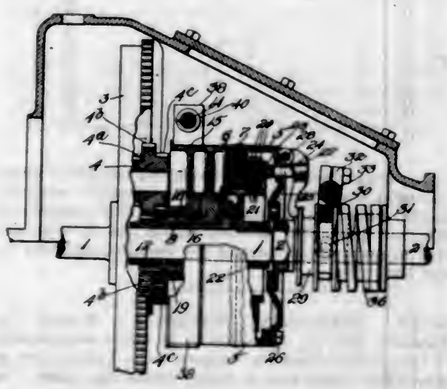
1. In a liquid flow regulator, the combination with a member having a passageway for the liquid, of means for controlling the flow of the liquid through the passageway, including a movable disk adapted to occupy a position relative to the member to form therewith a restricted passageway for the liquid partly on a face of the disk and communicating with the first mentioned passageway, the disk also being adapted to occupy another position relative to the member to expose a side of the restricted passageway to the liquid to free the restricted passageway of sediment which might collect therein.

1,687,287. BUMPER. CARL GOSSMAN, Glenwood, Ill. Filed Feb. 20, 1928. Serial No. 255,643. 9 Claims. (Cl. 293—55.)



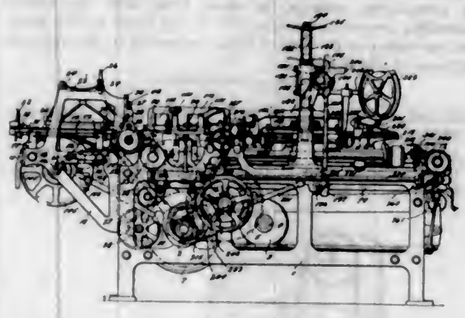
1. A bumper for vehicles including an impact bar extending in a direction across the vehicle, a pair of pads, links individual to the pads and pivotally connected by one end to the respective pads, means pivotally connecting one end of one of the links of each pad to the impact bar, means pivotally connecting the other link of the respective pads to the vehicle frame whereby when the impact bar is moved towards the vehicle the said pads will be moved towards each other, and means for yieldingly resisting the last said movement of said pads.

1,687,288. MARINE ENGINE. EARLE LINWOOD GRINDLE, Ellsworth, Me. Filed Nov. 2, 1926. Serial No. 145,780. 2 Claims. (Cl. 74—34.)



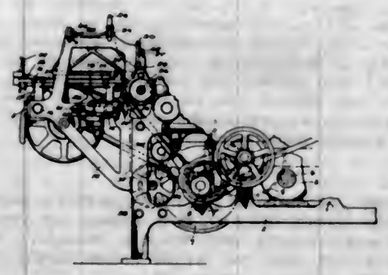
1. In a marine engine, the combination with a crank shaft, a fly wheel thereon and a propeller shaft, of a set of compound planetary pinions rotatably mounted on said fly wheel; a clutch including a driving member fast on said crank shaft and a driven member connected with said propeller shaft, said driven member being provided with a gear meshing with one member of each of said planetary pinions; a reverse drive drum loosely supported by said crank shaft and provided with a gear meshing with other members of said planetary pinions; a brake mechanism for said drum; an operating shaft for said clutch, a lever connected with said brake, mechanism to operate it, a cam arranged to be operated by said lever, and connections between said cam and clutch shaft whereby said lever controls the operation of the clutch.

1,687,289. PAPER-BOX-MAKING MACHINE. FRANK G. FEELEY, Chicago, Ill., assignor to M. D. Knowlton Company, Rochester, N. Y., a Corporation of New York. Filed June 30, 1925. Serial No. 40,571. 38 Claims. (Cl. 93—41.)



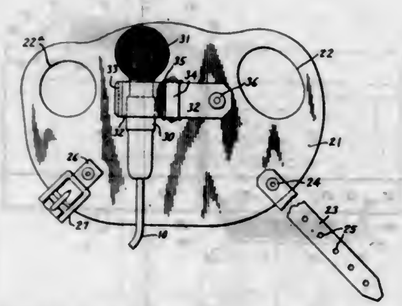
31. A box staying machine comprising blank feeding means, breaker devices disposed parallel with and laterally adjustable with respect to the longitudinal axis of the machine to receive the blanks from the feed rolls and fold the side flanges of the blank to an acute angle with the plane of the blank, and means for simultaneously operating said breaker devices.

1,687,290. BLANK-FEEDING MECHANISM. FRANK G. FEELEY, Chicago, Ill., assignor to M. D. Knowlton Company, Rochester, N. Y., a Corporation of New York. Original application filed June 30, 1925, Serial No. 40,571. Divided and this application filed Nov. 2, 1926. Serial No. 145,804. 9 Claims. (Cl. 271—44.)



1. A blank feeding mechanism comprising a main drive shaft, a reciprocatory feed table, rocker arms supporting said table, feed rolls adjacent the discharge end of said table, drive mechanism connecting the main shaft and the table for retracting the latter, and spring means for effecting the working stroke of said table.

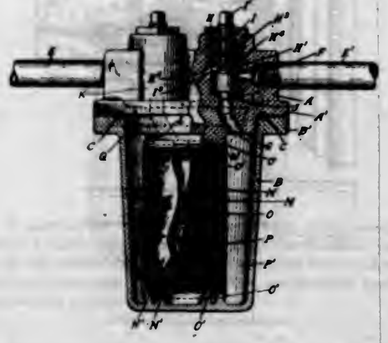
1,687,291. AUTOMOBILE SIGNAL. FRANK M. GRAHAM, Bellmore, N. Y. Filed Mar. 8, 1928. Serial No. 259,999. 3 Claims. (Cl. 177—329.)



1. An automobile signal comprising the combination of a signal light, means for attaching the said light to the driver's hand, an electrical cord in circuit with said light and with a source of current on the automobile, spring means for reeling up said cord, automatic circuit opening and closing means controlled by the reeling and unreeling operation for causing said light to be extinguished when the hand is on the wheel and to be lighted when the hand is used for signaling, and automatic means for restraining said reeling means so as to take strain off the driver's hand on the steering-wheel.

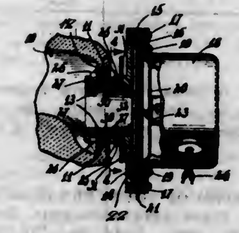
2. An automobile signal comprising a part of flexible sheet material adapted to be worn on the driver's hand, an electric light socket lying against the back of said part, an electrical cord connected with said socket, take-up means for said cord, a flexible strap connected to said part and looped tightly over said socket, and an electric light bulb in said socket, said bulb being larger than the socket so that it can not be pulled rearwardly through the strap by the tension of the cord.

1,687,292. OIL STRAINER. ALBERT E. GRANT, New York, N. Y. Filed June 10, 1927. Serial No. 197,835. 7 Claims. (Cl. 210—164.)



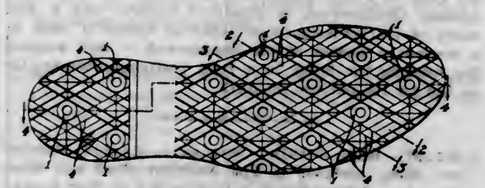
1. A strainer comprising an upper valve casing portion and a lower bowl portion, said upper portion having a depending part which extends into the upper end of the bowl to reduce the fluid capacity of the bowl; said upper portion having a valve controlled inlet passage and a valve controlled outlet passage, and a strainer in said bowl in the line of flow of a fluid passing therethru, and means for connecting the bowl to the upper portion in separable relation therewith.

1,687,293. RADIO LOUD SPEAKER. JOHN W. H. HANLEY, New York, N. Y. Filed Mar. 22, 1927. Serial No. 177,432. 6 Claims. (Cl. 181—27.)



1. A radio loud speaking unit attachment for conch shells having a side aperture with a gasket forced on the edges thereof, comprising a loud speaking unit, a cylindrical member projecting therefrom, and engageable in the gasket, recesses formed in the outer side of the cylindrical member, a pair of latches hingedly mounted in each recess, and engageable with the sides of the gasket when in extended position, the latches being formed with elongated apertures, pins passing through the apertures, a disc supporting the pins, the said disc being rotatably mounted on the cylindrical member, the said cylindrical member being formed with cavities communicating with the recesses, and tension springs housed in the cavities, and engaged with the pins.

1,687,294. NONSLIP SOLE. WILLIAM B. HOPWOOD, College Point, N. Y., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn., a Corporation of Massachusetts. Filed July 31, 1926. Serial No. 126,107. 6 Claims. (Cl. 36—59.)

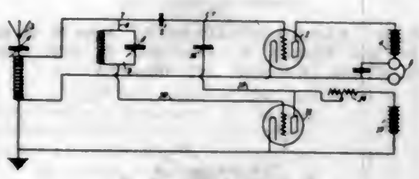


1. A sole provided with spaced rows of suction cups and ribs extending between the rows of cups, each rib having one substantially vertical wall, the vertical walls of different ribs facing in oposite directions.

1,687,295. INTERFERENCE ELIMINATION. ALFRED HÜBNER, Berlin-Friedenau, Germany, assignor to Siemens & Halske, Berlin, Germany, a Corporation of Germany. Filed Dec. 8, 1926. Serial No. 153,227, and in Germany Oct. 31, 1925. 4 Claims. (Cl. 250—20.)

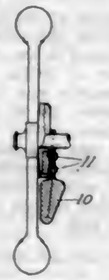
1. In combination, an antenna circuit, two electron emission tubes having control electrodes, one of said con-

trol electrodes being connected to said antenna through a condenser, the other of said control electrodes being connected to the antenna through a parallel resonant



circuit adapted to block the desired frequency, and capacitive means for directly coupling the anode circuit of the second tube to the control circuit of the first tube.

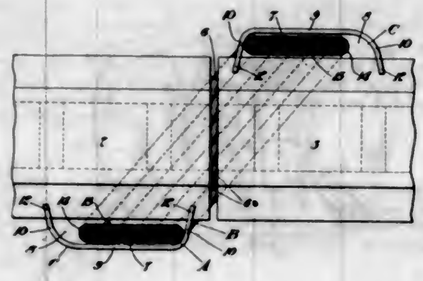
1,687,296. SYSTEM OF COUNTERBALANCES FOR MOTOR CARS. EINAR ARTHUR JOHNSON, Brooklyn, N. Y. Filed Aug. 27, 1927. Serial No. 215,770. 1 Claim. (Cl. 280—150.)



In a safety-device for automobiles, having for its purpose to lower the center of gravitation as described, a plurality of counterbalancing members suspended below the axles of a car, bands for supporting said weights, a member therebetween to eliminate friction, and a plurality of bracket-members attached by means of bolts to a stationary section of the chassis and to said weights for securing the latter in a rigid position, substantially as and for the purpose set forth.

1,687,297. RAIL BOND. CHARLES L. LARSON, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Jan. 12, 1927. Serial No. 160,652. 3 Claims. (Cl. 173—278.)

1. A rail bond, comprising a flexible conductor portion composed of a plurality of individual lengths of flexible cable laid side by side forming a relatively wide flat conductor, rigid terminals mechanically secured on each end of said conductor, said terminals each comprising a body portion composed of a bottom wall and back wall extending at substantially right angles to each other, and end walls, all of said walls being formed integral, said bottom wall being apertured to receive the ends of the terminals, and said end walls being each provided with a supporting lug projecting beyond the forward edge of said bottom wall and adapted to overlie the top of the base flange of the rail being bonded so as to support the bond in bonding position, said bottom wall of said terminal being adapted to have its forward edge abut the side edge of the base flange of the rail so that said rail base flange and said bottom, back and end walls of said

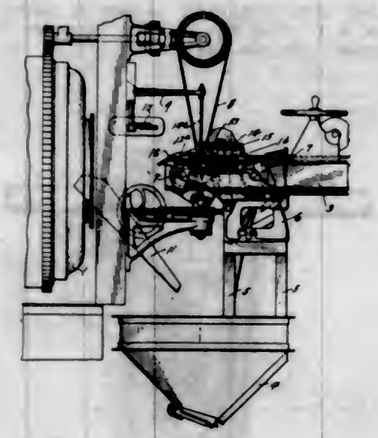


terminal will cooperate to form a pocket to receive the attaching metal deposited in welding the bond to the rail.

1,687,298. ELECTRIC COIL CONSTRUCTION. MARIUS LATOUR, Paris, France, assignor to Latour Corporation, Jersey City, N. J., a Corporation of Delaware. Filed May 17, 1923, Serial No. 639,708, and in France June 14, 1922. 1 Claim. (Cl. 175—21.)

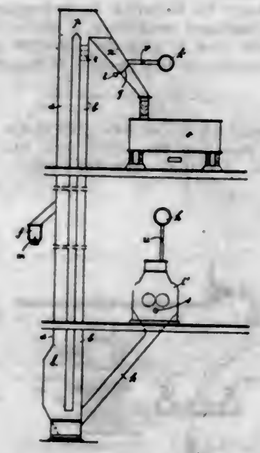
A composition of matter forming the magnetic circuit of an electrical device, comprising substantially 33.9 per cent nickel, 1.15 per cent manganese, and iron, whereby electrical losses are reduced to a minimum.

1,687,299. BACK-MOVEMENT LOCK FOR PAVER BUCKETS. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed June 7, 1926. Serial No. 114,313. 12 Claims. (Cl. 104—92.)



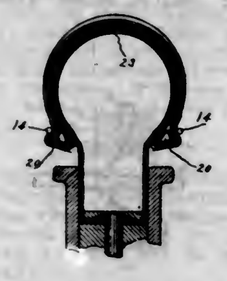
1. In a machine of the class described, a boom and bucket concrete distributing attachment comprising a boom, a bucket, a carriage to travel on the boom and supporting the bucket, clutch knock-out mechanism carried by said carriage, and locking means cooperative with said clutch knock-out mechanism to hold the carriage and its bucket in a predetermined position on the boom.

1,687,300. APPLICATION OF COLD TO THE MANUFACTURE OF FLOUR. JEAN JOSEPH BERNARD LOIZILLON, La Caubie, France. Filed Feb. 4, 1927, Serial No. 165,988, and in France Feb. 25, 1926. 8 Claims. (Cl. 83—42.)



1. An apparatus for the manufacture of flours which comprises an elevator having a large carrying surface, passages between the lower part of said elevator and the grinding apparatus, passages from the upper part of the elevator to the bolting apparatus and means to ensure the cooling of the products ascending in the elevator by a current of cold air ascending in the first part of the run and a cold air current descending in the second part.

1,687,301. METHOD OF MAKING CLINCHER TIRES. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Feb. 19, 1926. Serial No. 89,477. 3 Claims. (Cl. 154—14.)



1. A method of making clincher tires which comprises forming a flat carcass band, locating inextensible anchorages in the clinch of the beads, expanding the band to tire form, and removing the inextensible anchorages from the clinch of the beads.

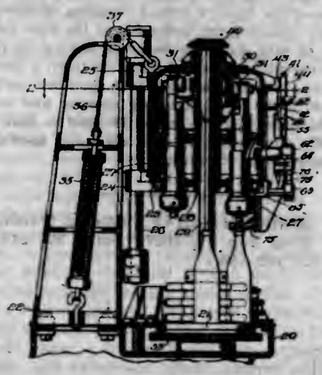
1,687,302. METHOD OF MAKING MULTIPLE-BEAD TIRE CASINGS. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1926. Serial No. 99,161. 3 Claims. (Cl. 154—14.)

1. A method of building tire carcasses comprising forming a band of carcass material with its edges enclosing bead anchorages, forming a second band of narrower material enclosing anchorges of slightly greater diameter than those in the first band, superposing the two bands with



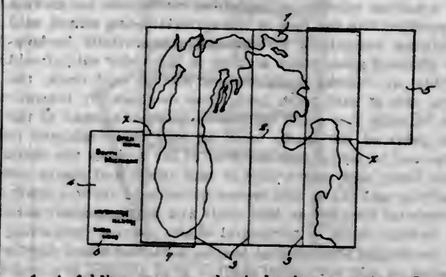
the second band outside, stretching the central portion of the bands, inverting the assembly, and forming the assembly into tire shape while inverted.

1,687,303. BOTTLE-CROWNING MACHINE. VALENTINE J. MOHLER, Wheaton, Ill., assignor, by mesne assignments, to the Liquid Carbonic Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 15, 1924. Serial No. 692,960. 14 Claims. (Cl. 226—84.)



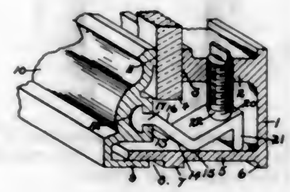
1. In a machine of the class described, a bottle carrier, a die carrier movable therewith, a series of vertically movable dies on the carrier, means for reciprocating each die as it arrives at a definite position, a vertically movable crown applying device, means for causing said device to descend to apply a crown to a bottle in advance of the descent of the die above said bottle, a plunger associated with each of said dies and adapted to engage a crown in said crown applying device.

1,687,304. FOLDING MAP OR CHART. AMOS R. MORRIS, Ann Arbor, Mich. Filed June 16, 1927. Serial No. 199,297. 6 Claims. (Cl. 281—5.)



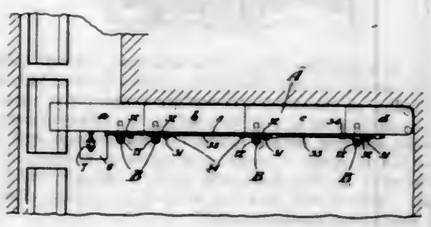
1. A folding map or chart, having a rectangular body portion adapted to be folded transversely and longitudinally, and stiffening extensions secured to diagonally opposite corners constructed and arranged to form the external pages when the whole is folded.

1,687,305. SASH CONSTRUCTION. CHARLES G. NELSON, Chicago Heights, Ill., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill., a Corporation of Illinois. Filed Aug. 15, 1927. Serial No. 212,936. 9 Claims. (Cl. 20—56.4.)



1. In a sash construction, a glass clamping member having a base flange extending in a plane perpendicular to the plane of the glass, a second clamping member having a base flange engaging the underside of the first mentioned flange, one of said clamping members having on its inner face a channel with an overhanging shoulder, a draw plate having a head engageable with said shoulder, and means connected with the other clamping member and co-operating with the draw plate to cause its head to bear against said shoulder and draw the two clamping members into clamping relation to the glass.

1,687,306. MINING MACHINE. EDWARD O'TOOLE, Gary, W. Va. Filed Aug. 11, 1927. Serial No. 212,285. 1 Claim. (Cl. 262—28.)

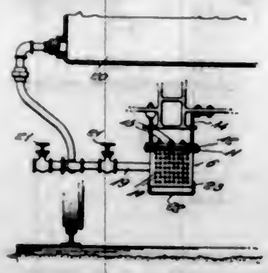


In a mining machine, a propelling mechanism for moving the machine into the face of the material being mined, said mechanism comprising a U-shaped substantially horizontally disposed guide track secured to the under side of said machine, an endless chain trained around said track, the return side of said track being bent downwardly intermediate its ends to a plane materially below the plane of the other parts of the track, teeth on said chain adapted to engage and be forced into the floor of the mine as the chain passes along said return side of said track, and means for propelling said chain, said means including a vertical shaft, a horizontal sprocket on said shaft and in engagement with said endless chain, a horizontal shaft, gearing connecting said horizontal and vertical shafts, a ratchet-wheel fixedly mounted on said horizontal shaft, a pawl adapted to engage and rotate said ratchet-wheel, a horizontal power shaft, a crank on said power shaft, a lever on which said pawl is pivotally mounted, and a connecting-rod connecting said lever and said crank on said power shaft.

1,687,307. BATTERY, ELECTRIC ACCUMULATOR, AND ELECTROLYZING APPARATUS. RENÉ OPPENHEIM, Levallois-Perret, France, assignor to Société Anonyme le Carbone, Levallois-Perret, France. Filed Sept. 30, 1925, Serial No. 59,729, and in France Dec. 10, 1924. 8 Claims. (Cl. 136—26.)

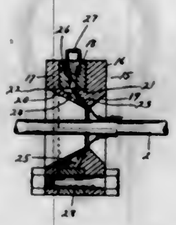
1. An electrode for batteries, electric accumulators and electrolytic apparatus comprising a mixture of granular active material and a granular material permeable to gases and substantially impermeable to liquids.

1,687,308. BOILER BLOW-OFF MUFFLER. THOMAS E. PARADISE, Hannibal, Mo. Filed Jan. 24, 1927. Serial No. 163,088. 4 Claims. (Cl. 137—160.)



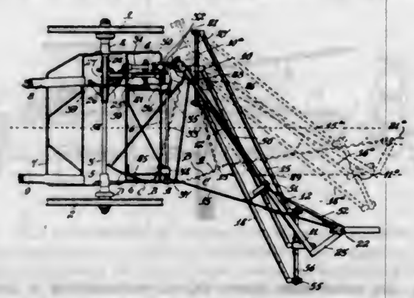
1. A boiler blow-off muffler comprising a casing apertured for the discharge of water, a series of woven wide sheets disposed side to side and forming a muffling means reticulate in all directions and filling said casing, and a water blow-off pipe entering the casing, passing through a plurality of the sheets of said series and terminating between the ends of said series.

1,687,309. AIR DIE. WILLIAM S. PRITCHARD, Detroit, Mich., assignor, by mesne assignments, to Motor Products Corporation, a Corporation of New York. Filed Mar. 25, 1922. Serial No. 546,658. 4 Claims. (Cl. 91—59.4.)



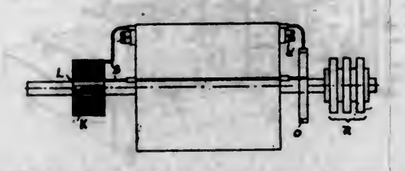
1. In an air die, the combination with laterally adjacent sections having substantially aligned openings for the passage of a tube and adjacent walls spaced from each other to form an annular chamber for fluid under pressure communicating with the openings for directing the fluid under pressure against and around the periphery of the tube, said adjacent wall being inclined to the axes of the openings, of a ring between said sections for spacing the same and closing the outer portion of the annular chamber, and means for clamping said sections and ring in fixed relation to each other.

1,687,310. SIDE-DELIVERY RAKE AND SWATH TURNER. PARKE RANDALL, Lille, France, assignor to International Harvester Company, a Corporation of New Jersey. Filed Sept. 28, 1927, Serial No. 222,478, and in Germany Aug. 5, 1926. 4 Claims. (Cl. 56—366.)



2. In a combined side delivery rake and tedder, the combination of a laterally folding rake frame, an upright shaft about which this folding movement takes place, and a transverse shaft on which said frame may be tilted up or down, the axes of the upright and transverse shafts intersecting.

1,687,311. COMPENSATED ALTERNATE-CURRENT MACHINE. RUDOLF RICHTER, Durlach, and WILLY SARFERT, Dresden, Germany, assignors to the Firm of Sachsenwerk, Licht- und Kraft-Aktiengesellschaft, Niedersedlitz, near Dresden, Germany. Filed Apr. 1, 1925, Serial No. 20,007, and in Germany Apr. 4, 1924. 9 Claims. (Cl. 172—280.)



1. In an alternating current machine, a primary member including a commutator, and an auxiliary compensating winding connecter to the commutator and arranged as an open coil winding.

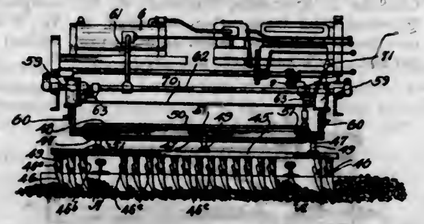
2. In an alternating current machine, a primary member including a commutator, a plurality of brushes bearing on the commutator, and an auxiliary compensating winding connected to the commutator and arranged as an open coil winding, the number of the said brushes being a multiple of the number of the phases of the main windings of the machine.

1,687,312. PROCESS FOR MANUFACTURING UREA-FORMALDEHYDE CONDENSATION PRODUCTS. KURT RIPPER, Vienna, Austria, assignor to Fritz Pollak, Vienna, Austria. Filed Mar. 20, 1924, Serial No. 700,736, and in Austria Mar. 31, 1923. 13 Claims. (Cl. 260—3.)

1. A process for the manufacture of clear, crystal-like condensation products from a urea and formaldehyde which process comprises forming water-soluble initial products in two stages by adjusting the C_H in the first stage, which is completed after applying heat for a short period of time, to a value not exceeding about 10^{-7} and in the second stage to a value upwards of 10^{-7} but not reaching 10^{-3} and then continuing the reaction by heating.

7. The process for manufacturing condensation products which consists in reacting on a urea with a solution of formaldehyde, the free formic acid content of which solution had been neutralized before starting the reaction, initiating the reaction by heating the mixture for a short period of time up to boiling, acidifying the reaction mixture, forming a hydrophile emulsion colloid by further heating and then continuing the reaction by heating to cause conversion of the first formed hydrophile emulsion colloid into a hydrophobe colloid.

1,687,313. RAILROAD-BALLAST-REMOVING MACHINE. JOHN F. ROBB, Cleveland Heights, Ohio. Original application filed Mar. 9, 1923, Serial No. 623,965. Divided and this application filed Nov. 11, 1925. Serial No. 68,387. 28 Claims. (Cl. 37—104.)

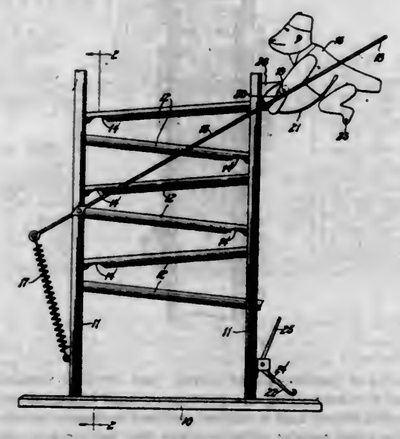


16. Apparatus for removing ballast from the road bed of a railway track comprising a car and means supported thereon for digging up the material between adjacent ties and removing the same from the space between said ties.

1,687,314. PROCESS FOR RESOLVING EMULSIONS OF TAR OR OIL. HERBERT WILLIAM ROBINSON, Birmingham, and DERIC WILLIAM PARKES, West Bromwich, England. Filed Feb. 23, 1927, Serial No. 170,413, and in Great Britain Mar. 30, 1926. 9 Claims. (Cl. 196—4.)

1. The method of resolving an emulsion containing an aqueous phase and an oleaginous phase which consists in adding to the emulsion a quantity of solid matter consisting of extremely finely divided sharp particles of air separated rock dust having a large surface area in proportion to their weight and being more easily wetted by water than by oil, said quantity being sufficient to form with said aqueous phase a relatively stiff mass capable of sinking through said oleaginous phase, and in settling out said stiff mass from said oleaginous phase.

1,687,315. AUTOMATIC TOY. WILLIAM JANSON ROCHE, Cochranton, Pa. Filed Feb. 21, 1927. Serial No. 169,969. 4 Claims. (Cl. 46—37.)



1. A gravity toy comprising, in combination, a frame presenting an inclined track adapted to receive and guide a rolling toy from the entrance to the exit thereof, toy car-

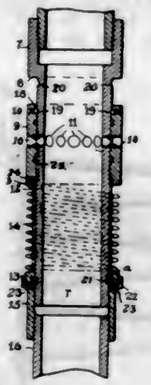
rying means releasably held in position at the exit end of said track to receive the rolling toy, trigger mechanism arranged to be tripped by said rolling toy to release said toy carrying means, pivotal arms on said means in which said rolling toy is lodged, a spring arm connected to raise said toy carrying means to the entrance end of said track, means normally holding said arms in toy carrying position, and means automatically to spill said rolling toy in the trackway.

1,687,316. POURING SPOUT FOR CONTAINERS. CHARLES H. ROLLASON, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed July 20, 1927. Serial No. 207,242. 2 Claims. (Cl. 221—27.)



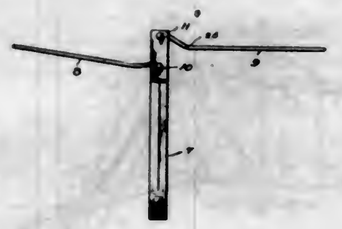
1. The combination with a container having a head provided with an opening which has permanently mounted therein a threaded neck, and a closure adapted to be removably mounted on said neck, of a pouring spout located interiorly of the container, and a yieldable one-piece support of approximately U-form upon which said spout is carried, said support being fixed to the underside of the container head at a point remote from said opening and being adapted, upon removal of said closure, to project said spout through said neck to pouring position and to permit depression of said spout within said container effected by the application of said closure.

1,687,317. GAS-LIFT PUMPING APPARATUS. MERTON T. ARCHER, Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed June 13, 1927. Serial No. 198,448. Renewed Dec. 23, 1927. 14 Claims. (Cl. 103—232.)



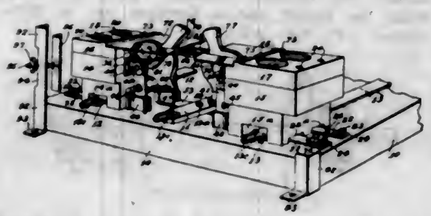
1. In a gas-lift liquid pump, two vertical conduits, a valve for controlling the passage of fluid from one conduit into the other, and a hollow resilient pressure member exerting force on the valve to close the valve when external pressure on the spring reaches a predetermined minimum and to open the valve when external pressure on the spring reaches a predetermined maximum.

1,687,318. AUTOMOBILE CHAIN TIGHTENER. HENRY E. BAHNSEN, Hammond, Ind. Filed Mar. 16, 1927. Serial No. 175,825. 3 Claims. (Cl. 254—78.)



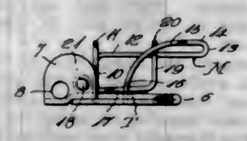
1. An automobile chain tightener comprising a hollow handle having indented inner socketed portions and spaced pivots, a pair of lever arms for engaging the chain adapted to collapse in superimposed position within said handle and to engage the inner socketed portions, and elongated loops on the lever arms to engage said pivots.

1,687,319. ELECTRICAL PANEL BOARD. FREDERICK L. BENZON, Plainville, Conn. Filed Jan. 20, 1923. Serial No. 614,049. 6 Claims. (Cl. 247—10.)



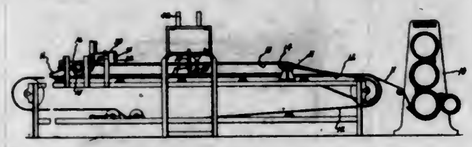
1. In a protective panelboard, a base, a pair of fuse holder and switch supports, a slotted frame extending between said supports, a knife switch pivoted to each of said switch supports, and a switch operating member pivoted to said frame and having a handle extending through the slot in said frame.

1,687,320. THREAD-TENSIONING MEANS FOR SHUTTLES. LOUIS ALEXANDRE CADORET, Pawtucket, R. I. Filed Aug. 11, 1927. Serial No. 212,254. 9 Claims. (Cl. 139—217.)



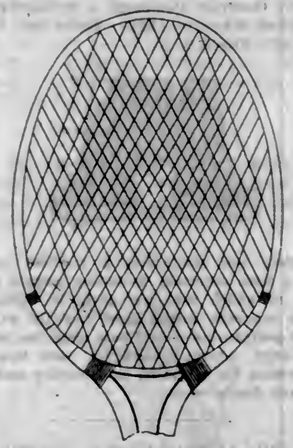
1. In combination with a shuttle threader having a base and a substantially horizontal portion above said base; a thread-tensioning arm disposed over the base, means pivotally mounting said arm for vertical swinging, and means carried by said arm and loosely engaged with said portion of said threader for guiding the vertical movement of the arm.

1,687,321. MARKER FOR CONTINUOUS-WEIGHING DEVICES. MARTIN CASTRICUM, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 30, 1925. Serial No. 5,699. 3 Claims. (Cl. 265—9.)



1. The combination of means for forming material in continuous length, means for determining the weight of the material per unit of length, and means automatically controlled by the weighing means for marking directly on the material to indicate such portions thereof as are outside a predetermined tolerance.

1,687,322. GAMES RACKET. CLAUDE ALBERT CLAREMONT, Rosslyn Hill, Hampstead, England. Filed Dec. 9, 1927, Serial No. 238,920, and in Great Britain Sept. 25, 1926. 4 Claims. (Cl. 273—73.)



1. A games racket characterized in that the rim is resiliently pliable in the plane of the racket, to afford the required resiliency when the blade is struck by a ball, and the stringing is arranged not to oppose the yielding of the rim to attain such resiliency, the required resiliency being afforded wholly by the resilient pliability of the rim, the strings being of comparatively non-stretchable material.

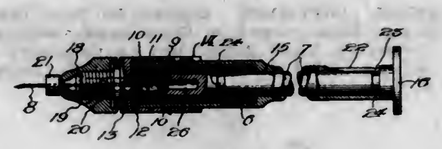
1,687,323. MEDICAMENT CARTRIDGE AND HYPODERMIC SYRINGE EMBODYING THE SAME. HARVEY S. COOK, Valparaiso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 1, 1921. Serial No. 481,997. 17 Claims. (Cl. 128—218.)

1. A hypodermic syringe embodying a sealed medicament container, comprising a tube with a fore sealing stopper consisting of an axially recessed plug of resilient material arranged with its recess facing inwardly and adapted to be pierced by and seal around a hollow needle, and having a rear piston plug to be forced into or through the tube to eject the fluid contents through the needle; in combination with said needle, means for holding the needle to pierce the said axially recessed plug at its axial portion,



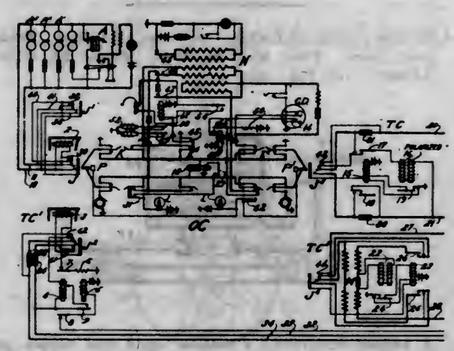
and an ejector to enter said tube to drive in the piston plug; the recess of the fore plug adapting it to be readily pierced.

1,687,324. HYPODERMIC SYRINGE. HARVEY S. COOK, Valparaiso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 26, 1925. Serial No. 11,707. 8 Claims. (Cl. 128—218.)



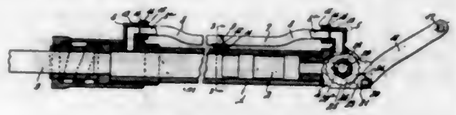
4. A hypodermic syringe comprising, in combination, a medicament package constructed and arranged to have its interior volume reduced for expelling of its contents; a barrel constructed and arranged to receive said package; needle securing means at one end of the barrel; a needle having an enlargement thereon; said medicament package having an opening; a resilient plug closing said opening and of reduced thickness axially to provide a cup-like recess facilitating axial piercing thereof by the needle; the needle enlargement positioning the inner point of the needle relative to the discharge end of the package.

1,687,325. TELEPHONE SYSTEM. THOMAS F. CROCKER, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 16, 1925. Serial No. 2,744. 22 Claims. (Cl. 179—27.)



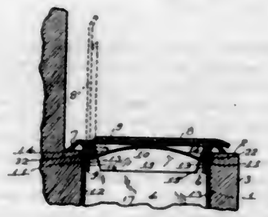
1. In a telephone system, a trunk extending from a manual jack to an automatic switchboard, said trunk comprising two inductively connected sections, a cord circuit for connecting with said jack, a calling device and means for bridging the same across the talkng strands of said cord circuit, and means responsive each time said calling device is operated for conductively connecting the two sections of said trunk line together to enable said calling device to control the switches at the said automatic switchboard over said trunk.

1,687,326. RIVET-CUTTING GUN. JOHN M. CROWE, Covington, Ky. Filed May 3, 1923. Serial No. 636,490. 4 Claims. (Cl. 121—21.)



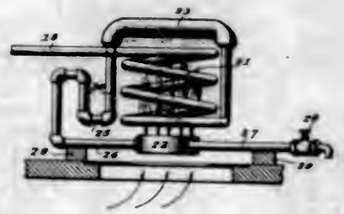
1. In a rivet cutting gun structure, the combination of a piston barrel and piston, a valve chamber and a valve for controlling the operation of said piston, a closure for said valve chamber, a handle for supporting said barrel, means for locking said closure in position, and a single means for securing said handle and said locking means to the gun structure.

1,687,327. CONTAINER. RUDOLPH DE BOER, Grand Rapids, Mich., assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich., a Corporation of Michigan. Filed Nov. 21, 1927. Serial No. 234,695. 6 Claims. (Cl. 206—19.5.)



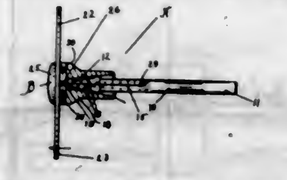
1. In a device of the character described: an open-top container having opposite lateral walls; a cover mounted on the container swingably to open and closed positions and having a downwardly extending arm; a spring mounted at its ends on said walls respectively, bowed upwardly between the same and engaging the arm to yieldingly hold the cover in swung position.

1,687,328. OIL BURNER. JOSEPH A. D'ELIA, Bridgeport, Conn. Filed Mar. 18, 1926. Serial No. 95,641. 1 Claim. (Cl. 158—54.)



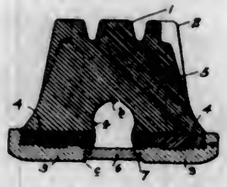
A burner comprising a coil, a liquid fuel supply pipe connected with its upper portion, valves in said pipe line to control the supply of liquid fuel, means for providing a forced feed of the fuel through the feed pipe, a relatively large heat retort disposed across the top of the coil in the path of the flame from the jet orifices of a burner, the inlet end portion of said retort being connected with the lowermost part of the coil, a trap connected with the discharge end portion of said retort, a burner positioned below and central of the coil, a pipe connecting said trap and burner to supply fuel thereto, and a blow-out pipe directly connected with the burner.

1,687,329. MANDREL. FOREST F. FILLOON, Minneapolis, Minn., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn., a Corporation of Minnesota. Filed June 10, 1925. Serial No. 36,168. 2 Claims. (Cl. 32—13.)



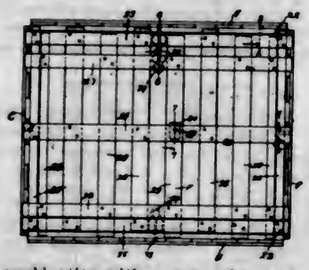
1. A dental mandrel consisting of a hollow rod, split jaws to form grippers, a tapered outer surface on said jaws converging toward the end of the rod upon which the jaws are placed, an annular shoulder on said rod, a collar having a hollow tapered core adapted to cooperate with the tapered surface of said jaws to compress the same, shoulders formed on said collar adapted to engage the annular shoulder on the rod for limiting the movement of said collar with relation to the jaws and a disk supporting tapered pin and head adapted to be locked or released by said collar operating to engage said jaws.

1,687,330. RESILIENT VEHICLE TIRE. EDWARD H. FITCH, Hudson, Ohio; Bessie McFarlin Fitch, executrix of said Edward H. Fitch, deceased, assignor to The B. F. Goodrich Company, a Corporation of New York. Filed May 10, 1922. Serial No. 559,771. 8 Claims. (Cl. 512—1.)



6. A vehicle tire comprising a resilient cushion tire body, and a base assembly including a pair of metallic base rings to which said tire body is vulcanized, and structurally separate means inset radially with relation to the inner peripheries of said base rings for locking them against relative lateral separation, said base assembly having provision for retaining said locking means against radial inward displacement.

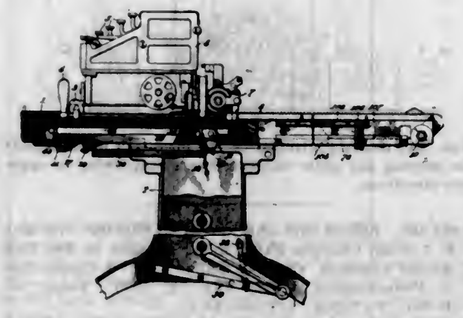
1,687,331. COLLAPSIBLE CRATE. CORNELL FLAGSTAD, Minneapolis, Minn., assignor of ninety-five per cent to The Folding Crate and Box Co., a Corporation of Minnesota, and two and one-half per cent to Oscar A. Flagstad, Minneapolis, Minn. Filed Nov. 26, 1923. Serial No. 677,175. 4 Claims. (Cl. 217—56.)



1. The combination with a crate, of an extensible cover therefor, locking devices slidably and rotatably secured upon the cover for locking engagement with the crate.

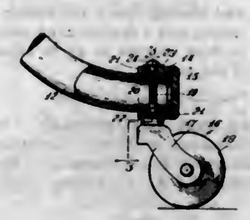
and means operated by extending the cover for preventing rotation of said devices when the cover is in secured position.

1,687,332. CONTINUOUS-FEED PLATEN. HARRY A. FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y., a Corporation of Delaware. Filed May 29, 1925. Serial No. 33,797. 29 Claims. (Cl. 197—126.)



1. The combination with a frame and platen, said platen being depressible at its rear end, a fixed clamp coacting with the rear end of the platen, movable clamps coacting with the front end of the platen and with the frame respectively, and means for depressing the platen and for operating the movable clamps.

1,687,333. CHAIR CONSTRUCTION. FREDERICK HAGGER HEADLEY, Northfield, near Birmingham, England. Filed Aug. 7, 1924, Serial No. 730,576, and in Great Britain Jan. 12, 1924. 4 Claims. (Cl. 45—137.)



1. In a chair or the like having tubular metallic legs, in combination with one of the legs thereof, means providing a finishing member at and for closing the end of said leg, and a caster frame including a pintle, passing transversely through said chair leg end and a part of said finishing member which are secured together thereby and provide a bearing in which said pintle is journalled.

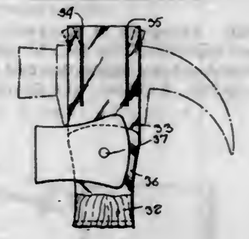
1,687,334. PEDAL-PROPELLED VEHICLE. FREDERICK HAGGER HEADLEY, Birmingham, England. Filed July 9, 1927, Serial No. 204,441, and in Great Britain Jan. 25, 1927. 8 Claims. (Cl. 208—88.)

1. A vehicle of the kind described embodying therein a rotative member, a one way clutch member thereon, a swingable pedal member pivoted at one end, a link pivoted at one end and having its other end operatively engaged with a part of said pedal member to be actuated thereby, means connecting said link and clutch member for actuating the same in one direction, and a spring arranged to move said clutch member and connecting means in the other direction, the pivoted ends of said pedal member and link being capable of a relative adjustment toward or



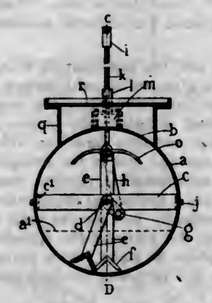
away from each other to vary the effective throw of said link without reducing the swingable movement of the pedal member.

1,687,335. TOOL HANDLE. MORLEY PYSON JACKLINE, Atchison, Kans. Filed May 26, 1925. Serial No. 33,003. 1 Claim. (Cl. 306—25.)



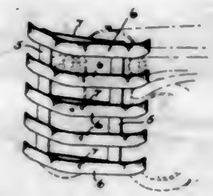
In a tool handle, a handle having a plate attached to it, a cam on the side of the said plate for engaging a head, means for pivoting the cam on the plate, the said plate having slots at its ends, those portions of the plate outside of the slots being distortable for retaining the plate of the handle on the head.

1,687,336. TREATMENT OF SEWAGE IN SANITARY CLOSETS. EPHRAIM LOUIS JACKSON, London, England. Filed Dec. 7, 1927, Serial No. 238,310, and in Great Britain Dec. 20, 1926. 5 Claims. (Cl. 4—115.)



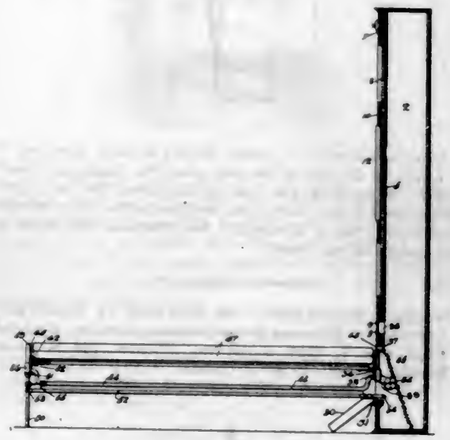
1. An improved apparatus for treatment of sewage in sanitary closets having in combination a tank to contain disinfectant and provided with an aperture in the upper part thereof, a shield normally located beneath said aperture, an arm by which the shield is carried, a device for breaking up the sewage, an arm by which the said device is carried, a spindle by which the two arms are carried, and means for oscillating and rotating the said spindle to cause the shield and device for breaking up the sewage to enter the disinfectant.

1,687,337. BUMPER FOR MOTOR VEHICLES. FRANK J. JAEGER, Toledo, Ohio. Filed Mar. 16, 1928. Serial No. 262,147. 4 Claims. (Cl. 293—55.)



1. A bumper for vehicles, comprising a plurality of uprights, curved front bars connecting said uprights, rectilinear struts connecting said uprights in rear of said front bars, and supporting brackets which are approximately V-shaped with their apexes secured to the vehicle and the ends of their arms secured to the uprights near the upper and lower ends thereof respectively.

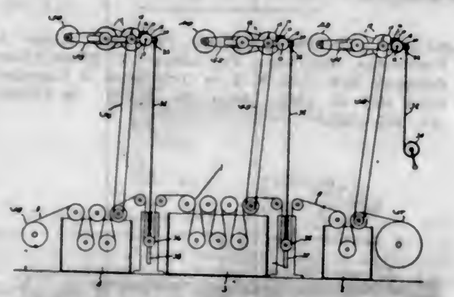
1,687,338. BED. FREDERICK B. KAUFMAN, Philadelphia, Pa. Original application filed Dec. 30, 1925, Serial No. 78,451. Divided and this application filed July 29, 1927. Serial No. 209,260. 5 Claims. (Cl. 5—156.)



1. In a folding bed, the combination with head and foot frames, of springs attached to said frames, side bars having offset ends pivotally secured in the respective frames, said side bars being movable into planes paralleling the plane of the springs and into planes at right angles to the said plane of the springs, means for swinging the bed into an elevated or substantially vertical position and for lowering the bed into a horizontal or operative position, and means for automatically moving the said side bars from a plane paralleling the plane of the springs when the bed is elevated to a plane at right angles to the plane of the springs when the bed is swung to the horizontal position.

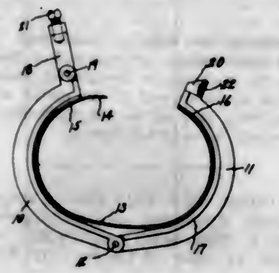
1,687,339. AUTOMATIC SPEED-CONTROLLING DEVICE. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed Feb. 6, 1922. Serial No. 534,631. 41 Claims. (Cl. 271—2.3.)

1. The combination with an adjusting shaft of a variable speed transmission mechanism and an electrically driven motor for operating said shaft, of a pair of slidably mounted co-operating blocks, a pair of contact plates on one of said blocks, a contact mounted on the other block and having fingers for engagement with said plates, automatic means for moving the contact carrying block end-



wise, and means controlled by the operation of said shaft for moving the plate carrying block lengthwise in opposite directions.

1,687,340. BEVELING AND SEALING CLAMP. THOMAS P. LITTLE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 12, 1925. Serial No. 49,691. 7 Claims. (Cl. 18—43.)



1. A beveling and sealing clamp for rubber tubes comprising an outer casing and a flexible band mounted in the casing but free to float thereon so as to adjust itself to the inequalities of the tube.

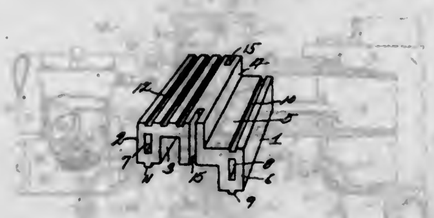
1,687,341. FUSE FOR PROJECTILES. WILLIAM L. LUKENS and RAYMOND R. CAREY, Bethlehem, Pa., assignors to Bethlehem Steel Company. Filed Feb. 3, 1926. Serial No. 85,638. 11 Claims. (Cl. 102—39.)



1. In a fuse for projectiles the combination with a fuse body, of a firing mechanism slidably mounted in said body,

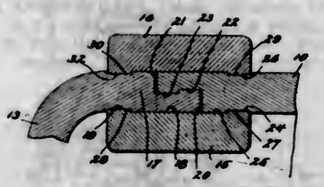
means to move said mechanism relatively to said body during the flight of the projectile, and means to positively prevent the return movement of a portion of said mechanism.

1,687,342. BUILDING TILE. JOHN GERALD MACVEIGH and PAUL B. COLLINS, Omaha, Nebr. Filed May 12, 1926. Serial No. 108,524. 1 Claim. (Cl. 72—39.)



A building block comprising a body member having a plurality of chambers extending longitudinally therethrough and a plurality of grooves in the upper side thereof, a longitudinally disposed rib carried by the under side of the body member, an outwardly extending horizontally disposed flange carried by one side of the body member adjacent its lower side and having a longitudinally disposed channel therein, a chambered downwardly extending longitudinally disposed flange carried by the outer end of the horizontally disposed flange and disposed below the block, a longitudinally disposed rib carried by the lower side of the downwardly extending flange, the ends of the body member adjacent their inner sides being provided with vertically disposed chambers.

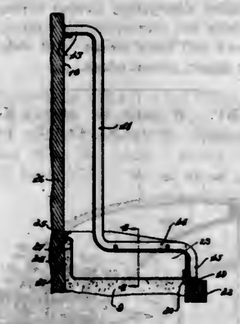
1,687,343. METAL-TANK-JOINT CONSTRUCTION. JAMES PATRICK MADDEN, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Nov. 6, 1922. Serial No. 599,411. 7 Claims. (Cl. 220—75.)



1. A metal tank comprising in combination adjacent tank sections continuous around the tank having a liquid-tight joint of great strength connecting them including contact surfaces formed from the metal of said sections closely fitting each other radially and longitudinally interlocked and continuous rings on the inner and outer sides lapping the joined ends if said sections having surfaces of contact so formed as to closely fit corresponding surfaces on said ends and longitudinally interlock therewith, the surfaces of contact being pressed together radially by the tension of the metal comprising said ends and the outer ring.

1,687,344. PLASTIC MATERIAL FORMING AND SMOOTHING DEVICE. WILLIAM G. MANSUY, Detroit, Mich. Filed Feb. 26, 1927. Serial No. 171,097. 5 Claims. (Cl. 72—131.)

1. A device of the class described comprising: a frame having side rails; a block mounted on each of said side rails; an L shaped trowel forming member mounted on each of said blocks; a guide member carried by said



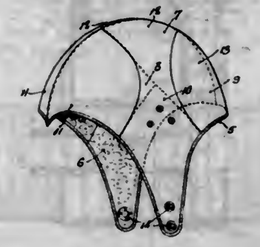
frame; and a nose on the rearward side of said block projecting outwardly from a vertically extending portion of said trowel forming member.

1,687,345. COFFEE-MAKING APPARATUS. ALBERT W. MEYER, New York, N. Y. Filed Nov. 28, 1927. Serial No. 236,291. 6 Claims. (Cl. 53—3.)



1. In a coffee making device, a container, a supporting member having a screw threaded liquid tight removable engagement therewith, and a percolator member supported upon said supporting member and removably held by the container.

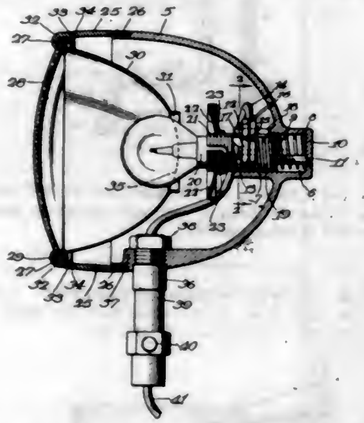
1,687,346. AVIATION CAP. ADOLPH MARTIN MONDL, Oshkosh, Wis. Filed Feb. 7, 1925. Serial No. 7,547. 2 Claims. (Cl. 2—6.)



1. A covering for the head having a closely-fitting portion formed of two front pieces, two side pieces and two rear pieces, the respective pairs being joined on a median

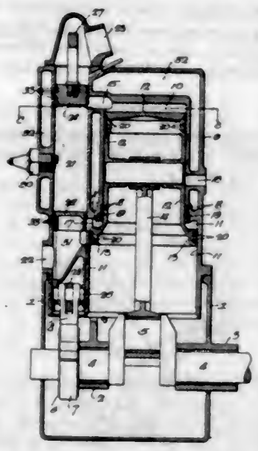
line running fore-and-aft of the helmet, said side pieces extending downwardly to cover the ears and having integrally-formed projections for overlapping and fastening under the chin, said side pieces having concave side-edges for engagement with the corresponding convex side-edges of the adjacent front and back pieces, said side pieces being widened at their upper, joined edges.

1,687,347. LAMP. WALTER W. MORU, Kenosha, Wis. Filed Aug. 12, 1925. Serial No. 49,693. 4 Claims. (Cl. 240—44.)



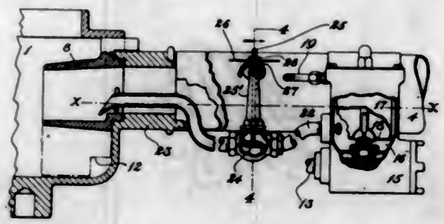
1. A lamp comprising a housing, a receptacle in said housing, an electric bulb socket slidably mounted in said receptacle, means for adjusting said socket to any desired position, a reflector mounted on said socket and movable to or from a source of light carried by said socket, a door mounted on said housing, a lens seated in said door and a reflector also mounted in said door and removable therewith without disturbing any of the aforesad elements of the lamp.

1,687,348. INTERNAL-COMBUSTION ENGINE. HAVILAND H. PLATT, Wallingford, Pa. Filed Feb. 20, 1925. Serial No. 10,547. 11 Claims. (Cl. 123—53.)



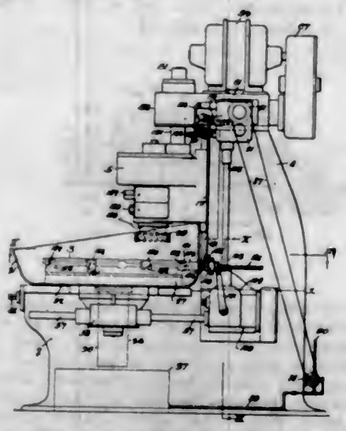
9. The combination, in an internal combustion engine, of a power cylinder having two portions of different diameters, a piston in said cylinder enclosing therein two chambers, a valve cylinder adjacent said power cylinder, a port connecting said valve cylinder with one of said chambers, a second port connecting said valve cylinder with the other chamber, two valves in said valve cylinder controlling said ports, and means external to the valve cylinder for rigidly connecting said valves.

1,687,349. OIL-BURNING APPARATUS. THURE A. QUART, Hartford, Conn. Filed Aug. 26, 1927. Serial No. 215,694. 7 Claims. (Cl. 158—42.2.)



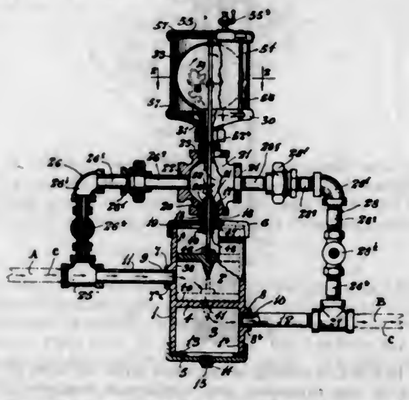
1. Apparatus of the class described including in combination with a gravity feed pipe line leading to a burner from a device for maintaining a constant level of fuel supply, a valve chamber in the pipe line below the predetermined fuel level, a valve seat in said chamber, a sleeve extending from the valve chamber to a point well above the predetermined fuel level, a valve having a stem freely movable in the sleeve and extended thereabove, means including a cam for lifting the valve, and a disk secured to the valve stem for engagement by the cam, the form of said disk being symmetrical so that the valve may rotate about its vertical axis without changing its balance.

1,687,350. CONTINUOUS MILLING MACHINE. ERNEST J. ROLLINGS, Philadelphia, Pa., assignor to Consolidated Machine Tool Corporation of America, Newton Machine Tool Works, Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 29, 1923. Serial No. 671,418. 1 Claim. (Cl. 90—20.)



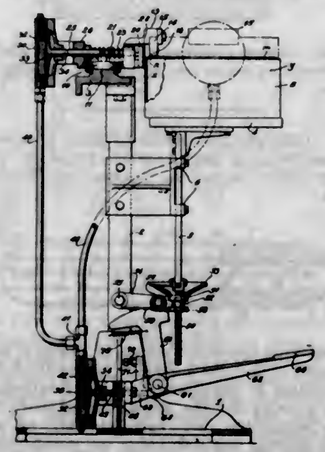
A machine comprising, in combination, a pair of cutters, a revolubly mounted table for carrying work to be machined, a driving shaft having an operative connection therewith for effecting the rotation thereof, a pair of gear-wheel mechanisms operatively associated with the said shaft, each of said mechanisms having an element loosely mounted on said shaft, said elements being spaced apart, a member mounted on said shaft intermediate said elements for axial motion, said member having opposite sides adapted to successively engage complementary arranged sides of said elements whereby a rigid connection may be effected between the element and the slidable member in engagement therewith, lever mechanism actuated at predetermined positions of said table to move said member into engagement with one of said elements, and compressible resilient means for forcing the said member into engagement with the said elements.

1,687,351. GAS SAFETY VALVE. FREDERICK E. SCHOOLFIELD, Covington, Ky. Filed June 17, 1927. Serial No. 199,539. 2 Claims. (Cl. 67—115.)



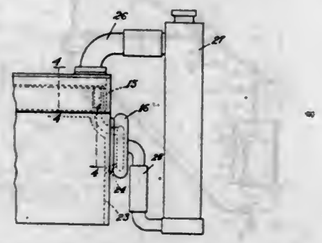
1. In an automatic gas shut-off valve, the combination of a cylinder divided into two chambers, an inlet supply pipe connected to one of said chambers, an outlet supply pipe connected to the other of said chambers, a partition between said chambers having an opening therein, a four-way fitting mounted upon said cylinder, a by-pass leading from said inlet supply pipe to said four-way fitting, a second by-pass leading from said outlet supply pipe to said four-way fitting, an expansible member located above said four-way fitting, a valve stem attached to said expansible member, and a valve on said stem whereby said valve is held in open position providing the gas flow or pressure is normal, substantially as set forth and for the purposes specified.

1,687,352. BOX-COVER-MARGIN TURN-IN MECHANISM AND METHOD. HARRY BRIDGMAN SMITH, New York, N. Y., assignor to Bridgman & Rubin, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 26, 1925. Serial No. 65,028. 4 Claims. (Cl. 93—54.)



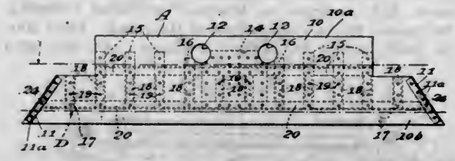
1. A method of turning and affixing cover margins employed in connection with box parts having cover margins projecting beyond the free edges of the side walls, comprising moving the box part in the plane of its bottom and during such movement turning the margin horizontally, then moving the box part substantially in the plane of a side wall and during such movement turning said margin inward against an adjacent inner face of a side wall, and then pressing the margin upon said wall.

1,687,353. CYLINDER HEAD AND COOLING SYSTEM. VERNER J. SWANSON, Quapaw, Okla., assignor to The A. L. Powell Power Company Incorporated, Miles City, Mont. Filed Mar. 30, 1925. Serial No. 19,269. 6 Claims. (Cl. 123—173.)



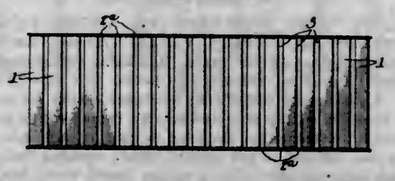
1. A cylinder head comprising a distributor and a water chamber, a spark plug boss extending thru said water chamber, a wall separating said distributor and chamber and provided with a port extending therethru adjacent said boss.

1,687,354. FREIGHT-CAR-DOOR PLATE. ERNEST W. SYSTROM, Detroit, Mich., assignor to Robert T. Romine, Mount Clemens, Mich. Filed Feb. 5, 1927. Serial No. 166,098. 3 Claims. (Cl. 14—72.)



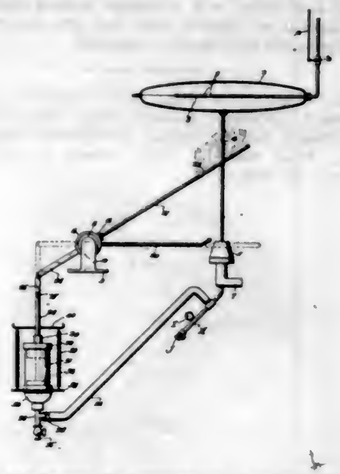
1. A door plate for freight cars adapted to span the space between a car and a loading dock, said plate having an aperture adjacent one side adapted to register with a stud on the car floor adjacent the door opening when the plate is in operative position, guide means at opposite ends of the plate, and reinforcing means on the under side of the plate adapted to strengthen said plate at its point of bending moment.

1,687,355. ENAMELED SHEET-METAL TILE. WINGATE THOMAS, Chicago, Ill., assignor, by mesne assignments, to Porcelain Tile Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 6, 1926. Serial No. 130,806. 2 Claims. (Cl. 189—85.)
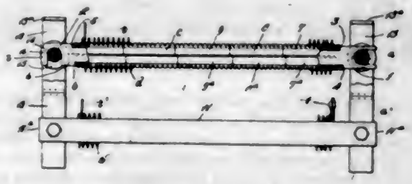


1. A connected set of fractional-length flanged enameled sheet-metal tiles, said set comprising a plurality of fractional-length tiles, and webs connecting the flanges of said tiles, said webs being narrower than the flanges.

1,687,356. GAS BURNER. SIDNEY C. VINCENT, Baltimore, Md. Filed Aug. 19, 1925. Serial No. 51,139. 8 Claims. (Cl. 236—26.)



1. In a gas burner, in combination, a stationary chambered key having a port therein, a sleeve surrounding said key and movable circumferentially of said key, said sleeve being also provided with a port adapted to register with the port in the key, means for supplying gas to said key, a burner carried by the sleeve and communicating with the port therein, means for automatically rocking the sleeve to open or close the ports to permit gas to be supplied to the burner or shut off therefrom.

1,687,357. RHEOSTAT. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 23, 1925. Serial No. 17,628. 5 Claims. (Cl. 201—63.)



1. In a rheostat, a metal bar having a threaded insulating covering thereon adapted to receive a helix of resistance metal, said covering comprising opposed sections having threads on their outer edges, and said bar having stops offset from one another longitudinally of the bar for positioning said sections so that the threads on one section will be a definite distance in advance of the threads on an opposing section.

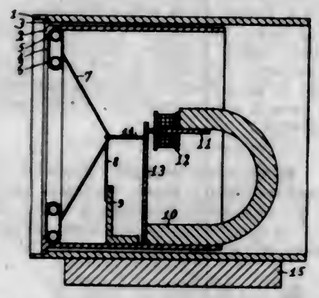
1,687,358. GAS BURNER WITH AUTOMATICALLY-CONTROLLED SAFETY VALVE. HENRIK BACH, Disiosanmartin, Transylvania, Rumania. Filed Apr. 29, 1927. Serial No. 187,610. 2 Claims. (Cl. 67—117.)

1. A gas burner comprising a tubular casing for connection to a gas supply pipe and having flame orifices and an air inlet, a combustion chamber formed in said casing behind the orifices, a gas supply nozzle opening into said casing adjacent the inlet, a spring urged valve having a stem and controlling the admission of gas to the nozzle, means to manually operate the valve, a thermostatic member fixed at one end in the casing and extending through the combustion chamber, a bell-crank lever pivoted in the casing having a short arm pivoted to the movable end of the thermostatic member and a long arm extending longitudinally of the casing adapted to be moved automatically



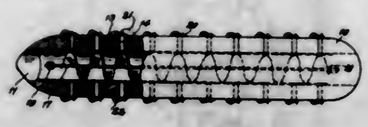
into and out of locking engagement with the stem of the valve by the expansion and contraction respectively of the thermostatic member.

1,687,359. LOUD SPEAKER. NATHANIEL BALDWIN, East Mill Creek, Utah. Filed Oct. 9, 1926. Serial No. 140,621. 7 Claims. (Cl. 181—31.)



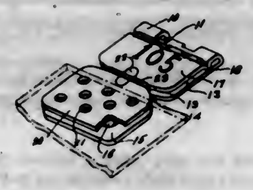
1. A loud speaker comprising a diaphragm and an annulus of stretched fabric contacting with the edge of said diaphragm.

1,687,360. PROPELLING MEANS. JOHN BOLGIANO, New York, and WILLIAM REILLY, White Plains, N. Y. Filed June 13, 1927. Serial No. 198,601. 2 Claims. (Cl. 115—16.)



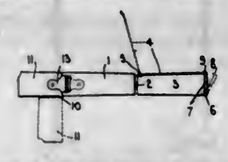
1. A propelling means for vessels by means of an Archimedean screw comprising a channel within the hull of the vessel extending in the direction of the longitudinal axis thereof, a housing for the screw, and a shaft therefor, means for supporting said shaft rotatably, an auxiliary engine for starting and continuing the revolutions of the screw and allowing an uncoupling and coupling of its shaft from and with said engine, and a means for allowing the waste water to be exhausted through openings in said hull.

1,687,361. LAUNDRY-MARKING TAG. EMIL J. CARROLL, Norwood, and GEORGE W. JOHNSON, Bond Hill, Ohio, assignors to The American Laundry Machinery Company, Norwood Station, Ohio, a Corporation of Ohio. Filed Apr. 29, 1927. Serial No. 187,560. 6 Claims. (Cl. 40—23.)



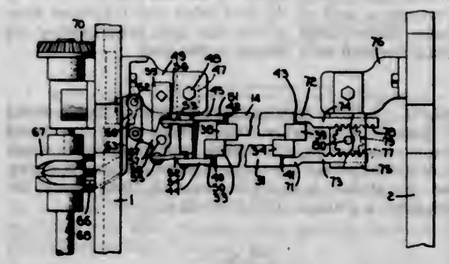
1. A laundry marker comprising a re-usable main portion having self-opening jaws, a destructible and removable clamping means embracing said jaws, and means for preventing jaw releasing movement of said clamping means.

1,687,362. RECEPTACLE FOR USE BY SMOKERS FOR TOBACCO ASH AND THE LIKE. JOHN JAMES BURKE COLE and AILLEEN CHARLOTTE COLE, Hungerford, England. Filed Jan. 7, 1927, Serial No. 159,664, and in Great Britain Jan. 25, 1926. 4 Claims. (Cl. 206—38.)



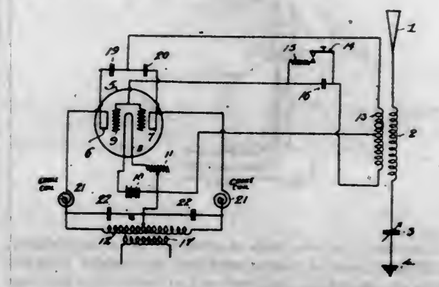
1. A receptacle for use by smokers, comprising an open-topped container for ash provided with a discharge opening, a match box provided with a lid and hinged to the ash container, said match box being foldable into the ash container, and a storage pocket for the ash hinged to the ash container and provided with an opening which communicates with the said discharge opening.

1,687,363. LENO MOTION FOR LOOMS. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 2, 1927. Serial No. 196,113. 8 Claims. (Cl. 139—53.)



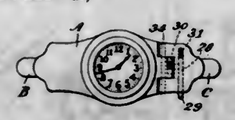
1. In a leno loom comprising a pair of heddle frames having suitable means for controlling the warps, and provided with guideways extending longitudinally of the vertical ends of said frames, means for imparting vertical relative movements to said heddle frames, actuating means engaging the respective guideways at one end of said frames reciprocable in the planes of the respective frames and operable to impart relative transverse movements to said frames alternately in one direction and also to prevent said frames from displacement from their respective vertical planes, complementary guiding members movable horizontally in said vertical planes engaging the guideways at the opposite ends of said frames and means for transmitting the actuated movement of one of said complementary members to the other, but in the opposite direction.

1,687,364. RADIO TRANSMITTING SYSTEM. LEE DE FOREST, New York, N. Y., assignor to De Forest Radio Telephone & Telegraph Company, Jersey City, N. J., a Corporation of Delaware. Filed Feb. 18, 1919. Serial No. 277,826. 4 Claims. (Cl. 250—17.)



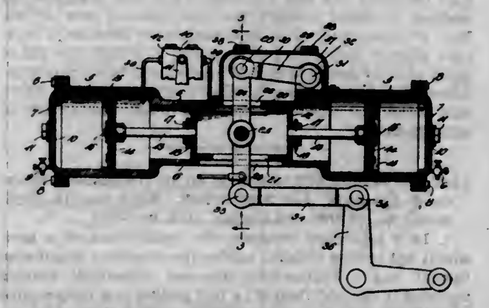
1. In a transmitting system, the combination with a vessel having a hot electrode, a pair of separated plate electrodes and a grid electrode interposed between each of said plate electrodes and said hot electrode, an oscillating circuit connecting said plate and grid electrodes, a source of alternating currents, means for associating said plate electrodes with said source, and a signaling device included in said oscillating circuit.

1,687,365. WRIST WATCH. GEORGE P. DIKE, Brookline, Mass. Filed Oct. 18, 1926. Serial No. 142,298. 11 Claims. (Cl. 224—4.)



1. A device of the class described, comprising a body portion, a pair of open arms one of which is hinged to the body portion, and unyielding means at the hinge to hold the arms in substantially fixed clasping position.

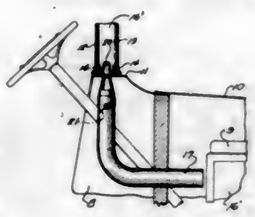
1,687,366. REVERSE-GEAR ACTUATOR. ROBERT L. DOOLITTLE and WILLIAM C. HUNTER, Montgomery, Ala. Filed July 1, 1926. Serial No. 119,915. 5 Claims. (Cl. 121—40.)



4. In a fluid-controlled mechanism, two opposed cylinders having openings in their outer ends and screw plugs normally closing said openings, rigidly connected pistons in

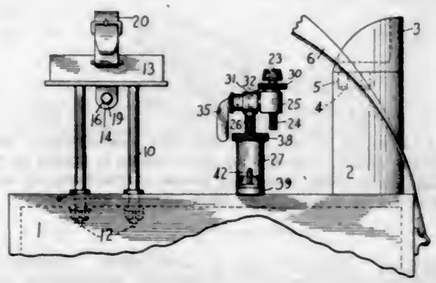
said cylinders, and two screws insertible through said openings into contact with both pistons, upon removal of said plugs, to lock said pistons against movement in either direction in case of emergency.

1,687,367. WINDSHIELD FOR VEHICLES. ERNEST E. HILLS, Oshkosh, Wis. Filed Nov. 29, 1926. Serial No. 151,561. 2 Claims. (Cl. 20—40.5.)



1. The combination with a vehicle, of a windshield, comprising a pair of glazed members interposed between portions of the vehicle and enclosed at their edge portions to form a compartment, one of said glazed members being fixed and the other being removable, an elongated hollow heat discharging member extending longitudinally along the bottom portion of the compartment, one wall of said member being provided with a plurality of discharge apertures, and means for conducting heated air to said heat discharging member.

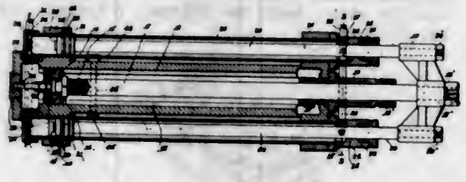
1,687,368. APPARATUS FOR TREATING THE FEET. LESTER J. KARPF, Dayton, Ohio. Filed Apr. 7, 1922. Serial No. 550,528. 4 Claims. (Cl. 128—69.)



1. In a device of the character described, means to support the front and rear portions of the foot, a supporting member arranged beneath the intermediate part of the foot, a bracket carried by said supporting member, a pressure member comprising a head and a shank, the shank being slidably mounted in said bracket and held against rotation therein, and a nut threaded onto said shank above said bracket to adjust said pressure member relatively to said bracket.

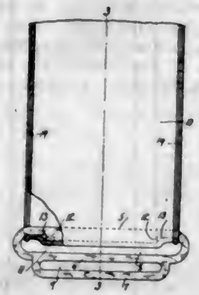
1,687,369. HYDRAULIC BROACHING MACHINE. FRANCIS J. LAPOINTE, Ann Arbor, Mich. Filed Dec. 18, 1925. Serial No. 76,309. 39 Claims. (Cl. 60—52.)

1. In a broaching machine, the combination of a horizontal bed having integral guideways extending lengthwise thereof and a horizontally disposed cylindrical bearing mounted in one end thereof; a tool pulling ram reciprocable in said bearing; a tool supporting member detachably secured to one end of said ram and slidable on and between said guides; a member secured to and projecting laterally from the other end of said ram; hydraulic means for actuating said ram, said means including a piston enclosed in a cylinder parallel to and alongside said ram, said piston being connected to said projecting member; and means for



delivering liquid into said cylinder against the entire surface of one end of said piston during the pulling operation of said ram.

1,687,370. SUSPENDER-END LOOP. JEROME R. LA VIGNE, Waterbury, Conn., assignor to Waterbury Buckle Co., Waterbury, Conn., a Corporation. Filed June 29, 1927. Serial No. 202,180. 1 Claim. (Cl. 24—265.)



A sheet-metal suspender-end loop having parallel upper and lower bars located in the same plane, a long narrow parallel slot between the said bars for the passage of the webbing, and a restraining-offset formed upon the lower edge of the upper bar, integral therewith, located in the plane of the said bars, having a straight lower edge projecting into the said slot and shorter than the same, the said offset being shaped at its ends to form angular retaining-shoulders projecting into the said slot, whereby the edges of the piece of webbing, passed through the said slot and looped over the said upper bar and the said restraining offset, are engaged by the angular shoulders at the respective ends of the said offset and prevented from sidewise displacement in the said slot, thus keeping the webbing centered with respect to the loop.

1,687,371. RADIO RECEPTION INSTRUMENT. JESSE C. LEEPER, Des Moines, Iowa, assignor, by direct and mesne assignments, of forty-five one-hundredths to Grant E. Brayton and ten one-hundredths to Clarence R. Townsan, Des Moines, Iowa. Filed June 13, 1927. Serial No. 198,433. 2 Claims. (Cl. 250—14.)



1. An instrument of the class described, comprising a metallic casing adapted to be in contact with the user of the instrument, a telephone receiver mounted in said casing,

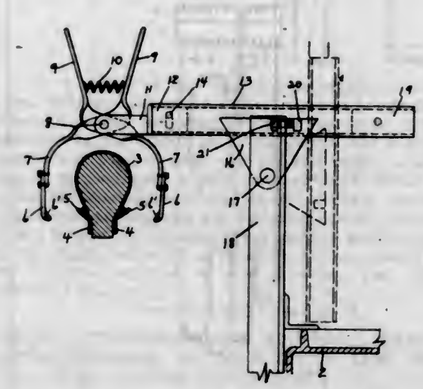
a pair of terminal posts for said receiver, a detector crystal supported on one of said posts and a cat-whisker supported on the other of said posts to coact with the crystal, both of said posts being included in a radiant energy receiving circuit, one of which is connected to the metallic casing.

1,687,372. SHOE FASTENING. ROBERT C. LEGAT, New Britain, Conn., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed May 10, 1928. Serial No. 276,650. 7 Claims. (Cl. 24—163.)



1. A fastening of the class described comprising a buckle member adapted to be attached to a strap, and a hook member adapted to be attached to another strap, the hook member having a hook portion hooking edgewise over the first strap and having a slot behind the hook portion thereof adapted to receive the second strap, so that the two straps are connected by engaging the hook portion behind and beneath the buckle.

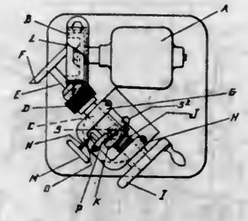
1,687,373. TIRE-BUILDING MACHINE. PAUL W. LEHMAN, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 4, 1926. Serial No. 113,705. 3 Claims. (Cl. 154—9.)



1. A device of the character described comprising a rotatable core adapted to support a tire carcass, a folding member in the form of a hook having a bead engaging edge, means to position said member adjacent the core with the point of the hook spaced radially inwardly from the edge of the carcass plies and means to move said member to insert the point of the hook between the core and the carcass plies and bring said bead engaging edge against the outer face of the bead portion of the carcass.

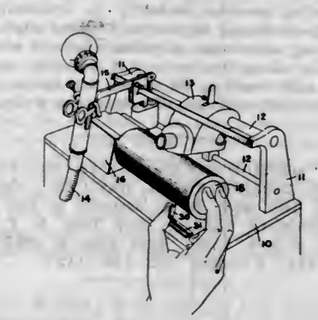
1,687,374. VALVE-RESURFACING MACHINE. FRANK E. LONGLEY, Lynn, Mass. Filed June 8, 1927. Serial No. 197,482. 2 Claims. (Cl. 51—131.)

1. The combination in a valve grinding mechanism, a grinding element, an adjustable support for the valve to be ground, means for holding said support in adjusted position at an angle with respect to the grinding element and to one side thereof, a shaft on the support and having a chuck thereon for gripping the valve stem, a collar on the shaft, a yoke on the support and engaging the shaft, a positively adjustable element acting upon the yoke to move the shaft and valve toward the grinding element, and a spring surrounding the shaft and engaging the collar and exerting



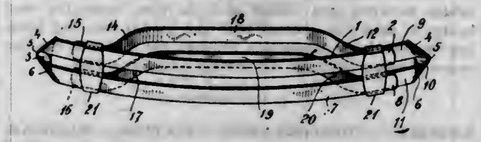
its pressure axially thereof to urge the valve against the adjustable means to normally cushion and resist the movement of the valve toward the grinding element.

1,687,375. EJECTOR. JOSEPH M. LUCARELLE, Bridgeport, Conn., assignor to Dictaphone Corporation, Bridgeport, Conn., a Corporation of New York. Filed Oct. 27, 1923. Serial No. 671,192. 11 Claims. (Cl. 274—17.)



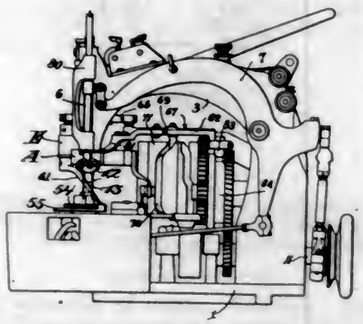
1. In combination, a frame, a record-support mounted thereon, an ejector-head for engaging a record held on the support and adapted to move the record longitudinally of the support, and means mounted on the frame for operating the ejector-head including a finger-piece movable in a horizontal plane parallel to the horizontal plane in which the record moves when ejected, located adjacent the discharge end of the record-support and in a plane cutting the record between its ends so that an operator's finger may receive the record from the record-support while part of the same hand operates the finger-piece.

1,687,376. DUPLEX BUFFER CONSTRUCTION. GEORGE ALBERT LYON, Allenhurst, N. J., assignor, by mesne assignments, to American Chain Company, Inc., a Corporation of New York. Filed May 19, 1923, Serial No. 640,089. Renewed Aug. 20, 1926. 15 Claims. (Cl. 293—55.)



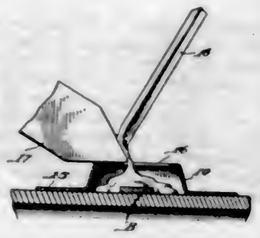
14. A horizontally resilient and vertically rigid automobile bumper comprising an impact receiving portion formed with duplex integral bars one above the other and extending approximately from end to end of the bumper.

1,687,377. SEWING AND EDGING MACHINE. KARL MAIER, Stuttgart, Germany, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Filed Aug. 3, 1926, Serial No. 126,844, and in Germany Aug. 24, 1925. 8 Claims. (Cl. 112—64.)



1. A sewing machine including in combination, oscillating thread laying fingers for forming edging loops, stitch forming mechanism including a pair of needles for securing the edging lops to a body material, means for oscillating said thread laying fingers, and means for shifting the center of oscillation of said thread laying fingers.

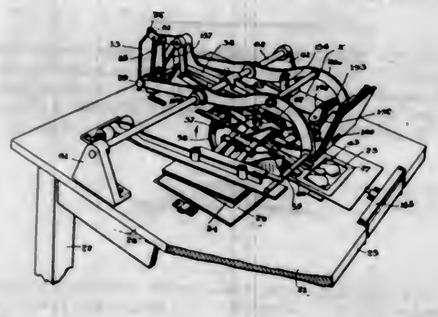
1,687,378. METHOD OF AND APPARATUS FOR SOLDERING CABLE-BONDING DEVICES. ADOLPH Z. MAMPLE, Glen Rock, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed June 8, 1927. Serial No. 197,434. 6 Claims. (Cl. 113—112.)



1. The method of soldering metals together without injury to the metals, which consists in positioning a heated soldering iron in spaced relation to the contacting metal articles, melting solder by the heat of the iron and directing the liquefied solder upon the metals at their point of contact, confining the melted solder until it forms a bridge between said metals and the iron, remelting said bridge of solder by contact with the heated iron and heating the metals by conduction through the solder to thereby cause a union between the metals and the solder.

1,687,379. PHOTOGRAPHIC-PRINTING MACHINE. MAURICE METZGER, Montreal, Quebec, Canada. Filed July 11, 1925. Serial No. 42,912. 13 Claims. (Cl. 95—73.)

1. In a photographic printing machine, a plurality of photographic printing paper holding means, a plurality of printing frames equipped with complementary negatives, mechanical means for operating the paper holding means to pass the printing paper over each frame and means for



automatically guiding each holding means so that the printing paper will be subject to successive exposures from said frames in its passage through the machine.

1,687,380. GLOVE. WALLACE E. MEYERS, New York, N. Y. Filed Aug. 19, 1927. Serial No. 214,173. 1 Claim. (Cl. 2—162.)

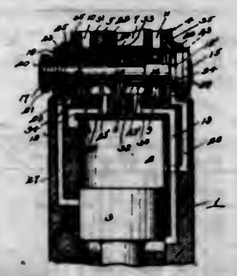


As a new article of manufacture, a glove and a cuff thereon, said cuff secured to the edge of the glove by a line of stitching located intermediate the edges of the cuff whereby the cuff may be reversed and folded to vary the appearance of the same.

1,687,381. VALVE FOR ROCK DRILLS. GUSTAVE M. NELL, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Filed Sept. 24, 1923. Serial No. 664,438. 2 Claims. (Cl. 121—28.)

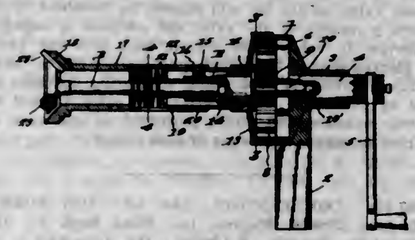
1. The combination with a cylinder, of a piston mounted therein, a valve chest for the cylinder, a rod fixed axially in the chest, said chest being connected with the cylinder through distributing and exhaust ports, a valve in the chest for slidably engaging the rod and controlling the distribution of fluid to and from the cylinder, said valve including a collar and end sleeves, said sleeves being each provided with a plurality of diverging webs defining annular end grooves and a central groove for controlling the distribution of fluid to and from the cylinder through

the distributing and exhaust ports, said valve also having end flanges, said chest having pressure chambers at each end, and means controlled by the piston for admitting



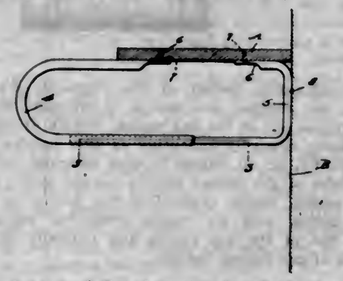
fluid under pressure alternately to the pressure chambers and against the flanges, and means for exhausting fluid from said chambers.

1,687,382. VALVE GRINDER. JOSEPH M. NORTH, Arnold, Kans. Filed Apr. 7, 1926. Serial No. 100,429. 2 Claims. (Cl. 82—1.)



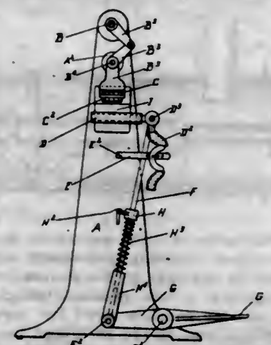
1. In a device of the character described, a casing, a cap threaded on one end of the casing and including a tubular extension projecting centrally therefrom, a shaft journaled in the other end of the casing and having a longitudinal bore, a crank arm on said shaft, a pinion carried by said arm, a ring gear arranged within the casing and meshing with said pinion, a chuck journaled in said tubular extension and including a shaft journaled in said bore of the aforementioned shaft, a pinion carried by the chuck and meshing with the first mentioned pinion, a sleeve mounted on said extension, and cutters carried by said sleeve.

1,687,383. CLOTHES-HANGER SUPPORT. MINNIE B. O'NEIL, Pittsburgh, Pa. Filed July 17, 1926. Serial No. 123,152. 1 Claim. (Cl. 211—87.)



In a hanger of the character described adapted to be mounted upon the underside of a shelf projecting forwardly from the wall of a closet or the like, a pair of substantially U-shaped members secured beneath the shelf, one member having a relatively straight bight portion adapted to abut against the wall, said members each having its lower leg relatively long as compared with the upper, the lower legs being telescopically engaged and the upper legs being directed toward each other and terminating in spaced relation and secured to the under side of the shelf, said telescopic engagement permitting adjustment to fit the device beneath shelves of different sizes.

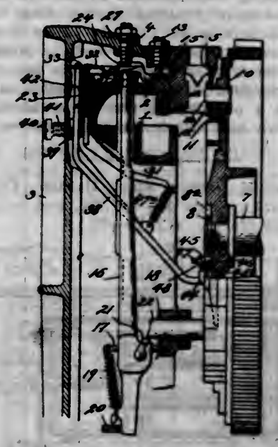
1,687,384. SHOE MACHINERY. GEORGE G. PERKINS, Lynn, Mass. Filed July 11, 1927. Serial No. 204,702. 10 Claims. (Cl. 12—78.)



2. In a machine of the kind described, an edge iron formed of separate units adjustable with respect to each other, and each unit having a curved face adapted to provide in assembly a corrugated surface, means for oscillating said iron against material on which a finish is to be applied, and adjustable means for pressing said material against said iron, said means mounted for limited movement in two directions during the pressing operation.

3. In a machine of the kind described, an edge iron, means for oscillating said iron against material on which a finish is to be applied, and adjustable travelling means for pressing said material against said iron, said travelling means comprising a W shaped pressure arm.

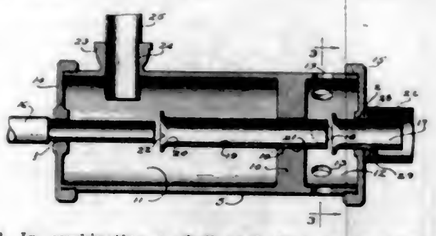
1,687,385. SAFETY STOP MEANS FOR TYPOGRAPHICAL MACHINES. WILLIAM PETERSON, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 23, 1927. Serial No. 242,187. 10 Claims. (Cl. 199—52.)



1. In a machine of the class described comprising an elevator for conducting lines of matrices to different casting levels and means capable of being set manually to stop the elevator at the different casting levels a mold adapted to cooperate with the elevator at one of said levels only, and means positioned by the bringing

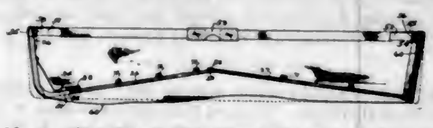
of said mold into casting position, to stop the elevator in the event the elevator stopping means is set to stop the elevator at a level other than that at which said mold is adapted to cooperate with it.

1,687,386. LIQUID-FUEL BURNER. JOHN H. REEVE, Portland, Oreg. Filed Jan. 4, 1928. Serial No. 244,450. 2 Claims. (Cl. 158—99.)



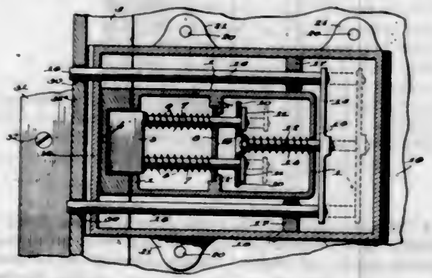
1. In combination a shell perforated for part of its length, a partition extending transversely within the shell and disposed to one side of the perforation and having a central opening, a tube passing through the opening and having one end flared, a liquid fuel supply pipe passing through one end of the shell and having its inner and disposed to one side of the perforations and having tube, an outlet pipe passing through the opposite end of the shell and having its inner end flared and disposed in close proximity to the adjacent end of the tube, and means for discharging steam in the shell in the vicinity of the liquid fuel supply pipe.

1,687,387. COLLAPSIBLE BOAT. NELSON M. RIEGER, Dayton, Ohio. Filed Jan. 17, 1927. Serial No. 161,573. 13 Claims. (Cl. 9—2.)



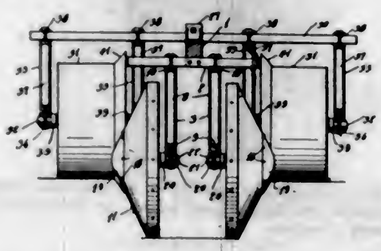
13. A collapsible boat having a frame and a skin in which the frame is enveloped; said frame comprising an articulated keel, a stem attached to one end of the keel and a transom-board attached to the other end of the keel, said keel serving as a toggle as its members are forced to a rectilineal position, whereby to press the stem one way and the transom-board the other way, to stretch the skin longitudinally; gunwales to which said skin is attached, and a plurality of ribs connected to the keel and having their ends attached to said gunwales.

1,687,388. LOCK. JORGE RIGO, Habana, Cuba. Filed July 23, 1927. Serial No. 207,990, and in Cuba July 30, 1926. 13 Claims. (Cl. 70—29.)



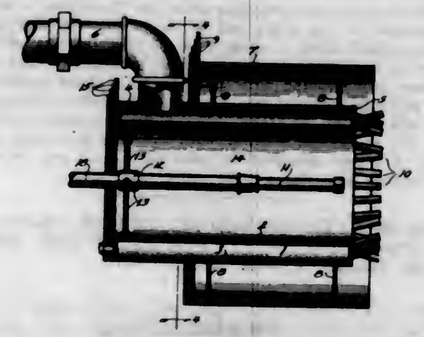
1. In a lock, two separate latch bolts, and means of connection between said bolts key-operable from the exterior of the door coincidently to retract both latch bolts and manually operable similarly and coincidently to retract from the inside of the door.

1,687,389. LAND ROLLER. EDWIN RINGEL, Alma, Kans. Filed Nov. 3, 1927. Serial No. 230,837. 1 Claim. (Cl. 55—6.)



A land roller, comprising a draft tongue, a frame secured thereto, supporting members carried by said frame, axles carried by said supporting members, conical rollers journaled on the axles and adapted to engage in a furrow to break clods therein and pack the ground on planted seed, a beam loosely connected to the tongue, a frame carried by said beam, supporting members carried by the frame, axles carried by pairs of said supporting members, and rollers journaled on said axles and adapted to engage the ridges of said furrow.

1,687,390. COMBINATION GAS AND OIL BURNER. EUGENE RITTER, Monroe, La. Filed Sept. 27, 1927. Serial No. 222,342. 2 Claims. (Cl. 158—11.)

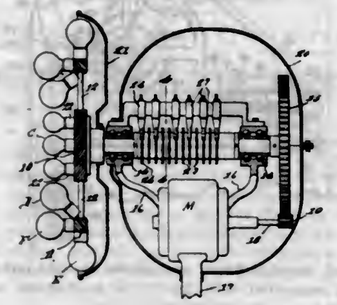


2. A combination burner of the character described, including an annular gas casing, a circular series of nozzles at one end of the gas casing, certain of said nozzles inclining inwardly and other of said nozzles inclining outwardly, an oil burner located centrally relatively to the series of gas burner nozzles, an air casing around the gas casing, means controlling the admission of air to said casing, said air casing projecting beyond the forward end of the gas casing and partially enclosing the series of gas burner nozzles.

1,687,391. DISPLAY APPARATUS. ORESTE SAMMINIATELLI, East Toledo, Ohio. Filed Dec. 6, 1926. Serial No. 152,950. 1 Claim. (Cl. 240—9.)

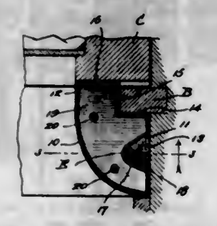
In an electrically operated display device, a standard, an electric motor mounted thereon, a housing enclosing the motor, bearing arms extending from the motor and

located within the housing, a shaft mounted in the bearing arms and extending through the housing, a display device mounted upon the outer end of the shaft, means located within the housing and operatively connecting the shaft of the motor and the bearing arm shaft to operate the latter and rotate the display device, electric



elements included in the display device, collector rings carried by the bearing arm shaft and electrically connected with the electric elements, a supporting arm carried by the bearing arms, and brushes secured to the supporting arm and engaging the collector rings for connection with a source of current.

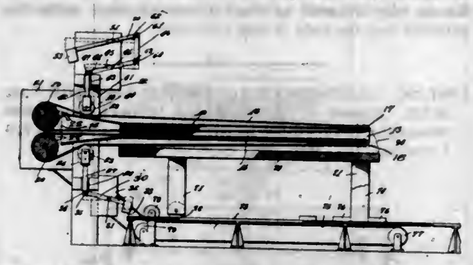
1,687,392. WEATHER SHIELD FOR WINDOWS. EVELYN OSTBERG SCHAFFERT, New York, N. Y. Filed Jan. 6, 1927. Serial No. 159,851. 1 Claim. (Cl. 20—52.4.)



A weather shield for windows, comprising a strip of material secured to the upper face of the end of the lower sash having yieldable edges engaging respectively with the surface of the window frame, the iner surface of the parting strip and the inner surface of the side rail of the upper sash, said shield having an aperture accommodating the sash cord of the lower sash and having a slit extending inwardly from the edge of the shield, communicating with the sash cord aperture to facilitate the mounting of the device the aperture inset from the edge and completely surrounding the cord, the said shield having a reinforcing piece of non-yieldable material overlying and of lesser area than the same, said reinforcing piece having a V-shaped notch coinciding with the apertured and slitted portion of the shield to allow for the flexing of the shield adjacent the aperture and slit when applying the same over the sash cord, and means extending through the reinforcing piece and the shield and anchored in the lower sash for retaining the device in place.

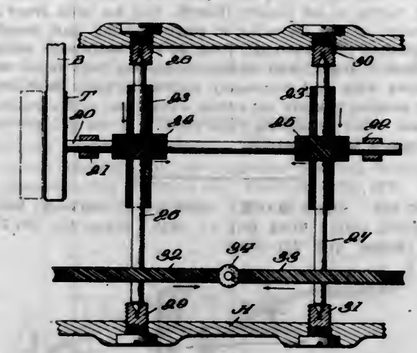
1,687,393. UPHOLSTERY MACHINE. HARRY MURPHY SCOTT, Chickasha, Okla., assignor to Oliver M. Burton, Chicago, Ill. Filed Jan. 16, 1928. Serial No. 247,192. 7 Claims. (Cl. 226—45.)

1. A device of the character described comprising a frame, a filler tube mounted on the frame and adapted to support a piping, endless belts trained through and around the tube, means for driving the belts, means for



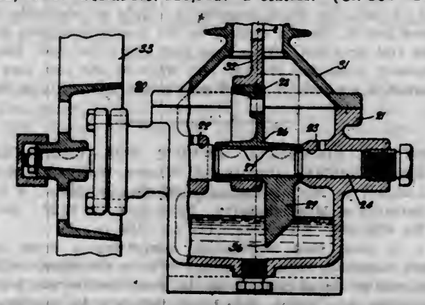
feeding a filler to a portion of the belts moving into the tube, said belts carrying the filler to the opposite end of the tube and forcing the same into a piping.

1,687,394. CENTRIFUGAL SEPARATOR. DAVID T. SHARPLES, West Chester, Pa., assignor to The Sharples Separator Company, West Chester, Pa., a Corporation of Pennsylvania. Filed Apr. 23, 1925. Serial No. 25,335. 13 Claims. (Cl. 233—23.)



1. In a centrifugal separator, a vertical stationary jacket, a centrifugal bowl disposed therein, a driving head having a bowl connection and mounted for pivotal movement with regard to said jacket, means to positively aline said bowl connection with said bowl, means to lock said head and said bowl in alinement and means to disengage said alining means following release of said locking means and to permit movement of said driving head to a position in which it allows the upward withdrawal of said bowl from said jacket.

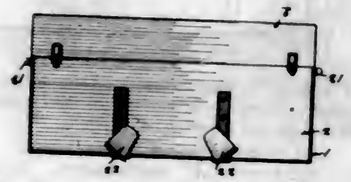
1,687,395. REFRIGERATING APPARATUS. WALTER E. SHEW, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed July 21, 1926. Serial No. 123,921. 2 Claims. (Cl. 184—13.)



1. In a compressor for refrigerators, a crankcase adapted to contain a quantity of lubricant, and a crankshaft car-

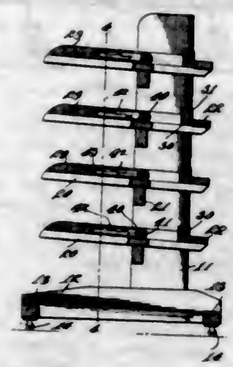
rying a counterbalance adapted to be immersed within the lubricant, the outer periphery of said counterbalance having an edge adapted to effect a non-splashing wedge-like entrance into the body of said lubricant.

1,687,396. AUTOMOBILE TRUNK AND LUGGAGE CARRIER. ALBERT L. SHIDLER and HERMAN H. MOOTZ, Sioux City, Iowa. Filed Jan. 7, 1927. Serial No. 159,710. 7 Claims. (Cl. 224—29.)



4. A combined automobile trunk and luggage carrier comprising a stationary section adapted to be mounted on an automobile and having side walls, a bottom wall, a rear wall having a lid hinged thereto, and an open front; a movable section including a vertical front wall member adapted to close the open front of said stationary section to form a trunk, and means connecting said front wall member with said stationary section to allow said front wall member to move outwardly away from said stationary section while remaining constantly in a vertical position to form a luggage carrier.

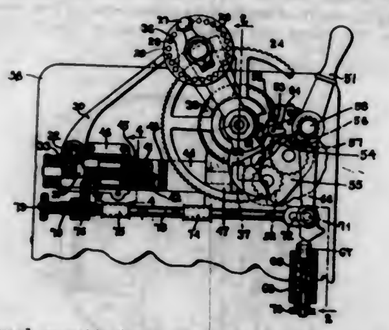
1,687,397. SHOE RACK. CHARLES E. SHIVELY, Portsmouth, Ohio. Filed July 11, 1928. Serial No. 291,754. 4 Claims. (Cl. 211—34.)



1. A rack for shoes comprising a pair of vertically disposed panels, shelves secured to the panels in spaced relation and provided with a heel rest and a toe rest, means pivotally mounting the toe rest whereby the rest may be located in a plurality of different positions on the shelves.

1,687,398. SIGNALING DEVICE FOR CROSS-FEED MECHANISMS. HERBERT A. SILVEN, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1923. Serial No. 633,183. 8 Claims. (Cl. 51—165.)

1. A cross feed mechanism comprising a cross feed screw, manually operative means to move the same, a screw operated in timed relation to the cross feed screw, a non-rotatable nut thereon moved longitudinally by rotation of the screw, a positive stop for checking the rotation of said screw, which is engaged by said nut and shifted from an inoperative to an operative position, a power driven shaft, a load and fire operated clutch mechanism to connect the power shaft with the cross feed screw, and an adjustably



positioned, movable finger engageable by said nut and operatively connected with the clutch mechanism to throw the clutch.

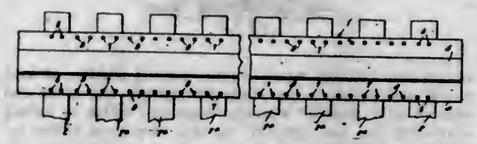
1,687,399. WELL-PUMPING APPARATUS. RICHARD P. SIMMONS, New York, N. Y. Filed Aug. 16, 1927. Serial No. 213,381. 3 Claims. (Cl. 103—5.)



1. In a well pumping apparatus, a plurality of pump units adapted to be arranged in spaced relation within a well, each of said pump units including a casing, driven rotatable screws within said casing, inlets in said casing at the outer ends of said screws, an outlet in said casing intermediate the ends of said screws, discharge piping connecting the outlet of one pump unit with the inlet of the next higher pump unit and with the outlet of the uppermost unit with the surface of a well, transmission means between the driven screws of the respective pumps for simultaneously operating all of said pumps in unison, and a compressed air line tapped into said discharge piping at suitable points therealong for assisting said screws in lifting the pumped fluid through said piping.

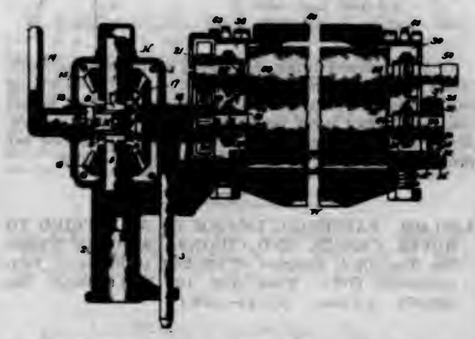
1,687,400. RAILWAY RAIL. CHARLEY H. SLOAN, Manning, Kans. Filed July 1, 1926. Serial No. 119,879. 1 Claim. (Cl. 238—125.)

A rail having a web of uniform thickness throughout its entire height and length and having a comparatively wide base provided with a comparatively thick central portion, the base being of uniform width throughout its entire length and provided with pairs of end openings, pairs of intermediate main openings and pairs of intermediate auxiliary openings all spaced a similar distance inwardly from the edges of the base, the intermediate auxiliary openings being arranged between the auxiliary main openings and between the end openings and the auxiliary main openings, the respective pairs of intermediate main and intermediate auxiliary openings being similarly



spaced and the units of the respective pairs of these openings being arranged three inches apart, the respective pairs of end openings being spaced from the adjacent intermediate auxiliary openings a greater distance than the space between the intermediate auxiliary and intermediate main openings, and the units of the respective pairs of end openings being spaced two inches apart.

1,687,401. WRINGER. HOWARD F. SNYDER, Newton, Iowa, assignor, by mesne assignments, to The Maytag Company, Newton, Iowa, a Corporation of Delaware. Filed Nov. 11, 1920. Serial No. 423,225. 12 Claims. (Cl. 68—32.)

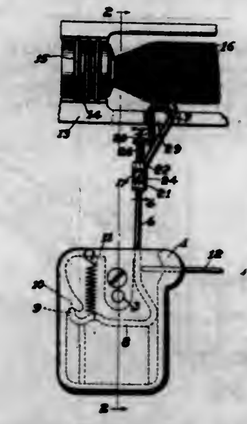


1. In a wringer, a gear casing having a bearing in one wall thereof, a shaft operable in said bearing, a gear on one end of said shaft within the casing and adapted to mesh with a driving gear, a gear at the other end of said shaft and adapted to drive a wringer roll, a wringer roll having a shaft, and a readily separable connection between said shafts.

3. In a wringer, a wringer roll having a shaft, a shiftable drain board below said roll, drain board actuating means frictionally engaging said wringer roll shaft, means for adjusting the frictional contact pressure, and connections between said drain board actuating means and said drain board so that the latter will be caused to shift upon reversal of direction of rotation of the wringer roll so as to draw the escaping water in the desired direction.

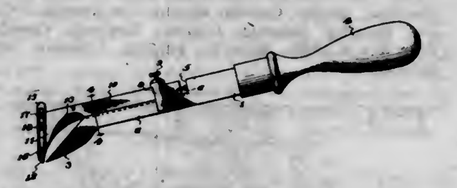
1,687,402. FEELER MECHANISM FOR LOOMS. ALFRED E. STAFFORD, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 7, 1928. Serial No. 252,472. 5 Claims. (Cl. 139—278.)

1. A feeler mechanism for looms having a side slipping feeler with a toothed engaging tip, in combination with a vertical standard extending from the feeler near its tip end and having an unthreaded aperture, a shuttle feeling finger having a threaded shank of less diameter than the diameter of the unthreaded aperture and provided with a rounded shuttle engaging head frontward of the toothed engaging tip adapted to be encountered by the slip laterally upon the front wall of the shuttle when the feeling tip does not make restraining contact with the filling, and adjusting nuts threaded upon the shank of the shuttle



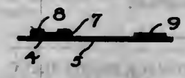
feeling finger and having centering projections extending into the unthreaded aperture to maintain the feeling finger centered in the aperture.

1,687,403. GAINING TOOL. MARTIN A. STAFFORD, deceased, Harvard, Ill., by Catherine Stafford McFarlin, administratrix, Harvard, Ill. Filed June 23, 1927. Serial No. 200,970. 1 Claim. (Cl. 145—1.)



A hand tool comprising a stem having an upstanding shoulder near its rear end and a downwardly and forwardly inclined routing bit as its front end, a second stem resting upon and slidable longitudinally on the first stem and having tongue and groove engagement therewith, a head at the front end of the second stem having parallel scoring points at its lower end to run in advance of the routing bit, the sides of said second stem being beveled downwardly immediately at the rear of the head, a yoke secured upon the first stem and spanning the second stem, a set screw in said yoke bearing against the second stem, and an abutment screw threaded in the rear end of the second stem and bearing against the upstanding shoulder on the first stem.

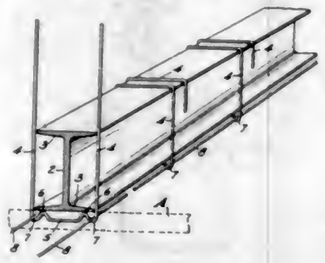
1,687,404. PAPER-HOLDING DEVICE. SAMUEL STOWELL, Vancouver, British Columbia, Canada. Filed Jan. 24, 1927. Serial No. 163,239. 1 Claim. (Cl. 101—408.)



The combination with a printing press having a type supporting bed and a paper sheet carrying platen adapted to approach and recede from each other, and a pair of grippers adapted for movement to and from the platen, of a finger comprising a strip of sheet material having a pair

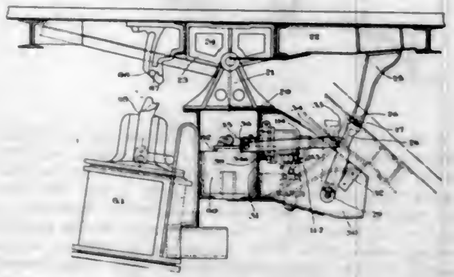
of opposed tongues adapted to embrace one of the grippers and a resilient non-metallic pad upon the finger which is adapted to be engaged by the bed or its type for exerting pressure therethrough to the paper sheet.

1,687,405. CONCRETE REENFORCEMENT. JAMES M. STRAUB, Pittsburgh, Pa., assignor to Electric Welding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 21, 1926. Serial No. 156,098. 2 Claims. (Cl. 72—109.)



1. A reenforcing clip for concrete construction consisting of a continuous single member rod bent to provide parallel side arms and acute angle inwardly open corner loop portions providing bearing abutments for contact against a structural member and open recesses for reenforcing members laid longitudinally of the structural member.

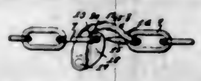
1,687,406. DIRECTION VALVE FOR OPERATING DUMP CARS. ERNEST R. VIDEAU and ALFONZ L. LINDENBLAD, Montreal, Quebec, Canada, assignors to Canadian Car and Foundry Company Limited, Montreal, Canada. Filed Nov. 6, 1926. Serial No. 146,703. 7 Claims. (Cl. 303—48.)



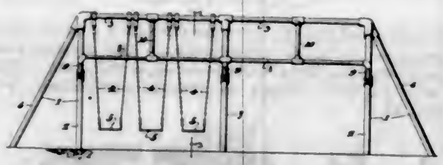
3. In a dump car, a direction valve comprising, a valve casing, a chamber formed in the side of the casing, an inlet port to said chamber, an exhaust port, a valve for closing said exhaust port, fluid operated means for simultaneously closing said exhaust port and opening said inlet port, both of which are in vertical alignment with one another, cushioning means between the exhaust valve and the fluid operated means, a spring for closing the inlet port valve, a sleeve valve mounted in the chamber and a disc valve also mounted in the chamber, said disc valve having an arm contacting with the end of the sleeve valve substantially as described.

1,687,407. AUTOMOBILE SKID CHAIN. ELI E. WAGNER, Lewistown, Pa. Filed Nov. 22, 1927. Serial No. 235,000. 2 Claims. (Cl. 24—68.)

1. A coupling device for the ends of a side chain of an anti-skidding attachment comprising a hook element formed of a shank terminating at one end in a laterally disposed bill to engage one the end links of the side chain, said shank including an angularly disposed curved portion for extension through the other end link of the chain, and a shiftable curved member pivoted at its outer end to the outer end of said curved portion and further adapted to have its inner end pivotally connected to the last mentioned end link of the chain, the curved portion of said shank positioned against and shiftable on the inner end edge of said member whereby when the latter is swung outwardly the end links of the side chain are pulled together and secured in position with respect to the tire when the bill is in engagement with one of said end links.



1,687,408. PLAYGROUND SWING. WILLIAM O. T. WATKINS, Little Rock, Ark. Filed June 14, 1927. Serial No. 198,834. 4 Claims. (Cl. 155—64.)



1. A playground swing, comprising an overhead support, cables suspended from said support, a safety-restraining bar positioned in the path of swing of the cables to one side thereof and lower than the overhead support and adjacent a medial line passing through the cables, said bar functioning to limit the forward swing of the cables.

1,687,409. FASTENING DEVICE TO BE APPLIED TO ROPES, CABLES, AND CHAINS. REINHOLD WEBER, San Toy, Ohio, assignor of one-half to Frank A. Ray, Columbus, Ohio. Filed Aug. 16, 1926. Serial No. 129,357. 1 Claim. (Cl. 24—129.)

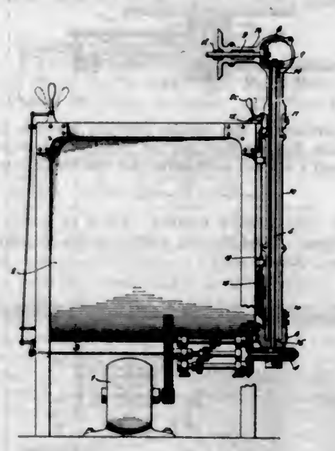


A fastening device for ropes, cables, or chains comprising an eye construction with a straight shank leading therefrom and forming an integral part thereof, a lateral curved portion forming an integral part of said shank, said curved portion being bent in the form of a spiral continuing more than one complete revolution, the free end portion of the spiral being suitably spaced from the first part of the spiral so as to receive the rope.

1,687,410. RUBBER-BONDED ABRASIVE ARTICLE AND METHOD OF MAKING THE SAME. DUANE E. WEBSTER, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 30, 1925. Serial No. 65,899. 5 Claims. (Cl. 51—280.)

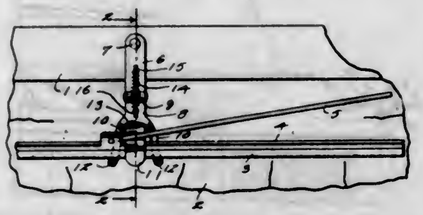
1. The improvement in the manufacture of rubber bonded abrasive articles comprising mixing rubber latex, a vulcanizing agent and an accelerator, and abrasive grains, coagulating the mixture thus obtained, and thereafter vulcanizing the coagulated mixture.

1,687,411. SWINGING WRINGER SUPPORT AND GEAR HOUSING. DAVID M. WENGER, Leola, Pa. Filed July 2, 1927. Serial No. 203,191. 1 Claim. (Cl. 68—32.)



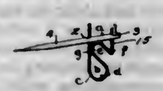
In a device of the character described, a main body portion, a wringer support mounted thereon consisting of one piece, right angular portions fastened together into a continuous member, one right angular portion having an attaching means for connection with a wringer, another right angular portion having means for allowing the wringer support to be locked against rotation, and means mounted on the main body portion and continuous member for locking the continuous member in fixed position.

1,687,412. HOLDER FOR WINDSHIELD WIPERS. HENRY WHITE, Jr., Buffalo, N. Y. Filed July 21, 1927. Serial No. 207,497. 3 Claims. (Cl. 15—255.)



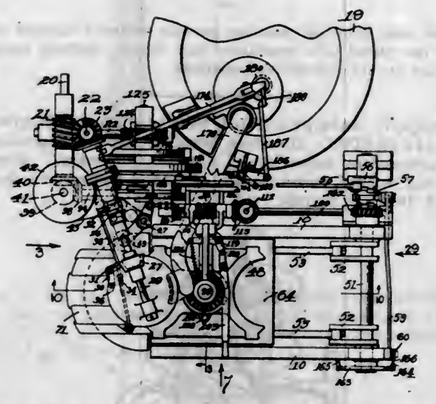
1. In combination, an oscillating wiper for a windshield, a holder for the wiper when the latter is not in use, means supporting the holder for movement into and out of the path of the wiper, and means adapted to normally retain the holder out of the path of the wiper.

1,687,413. WALL HOOK. CARL J. WITT, Sao Paulo, Brazil. Filed Oct. 1, 1926. Serial No. 138,993. 5 Claims. (Cl. 40—145.)



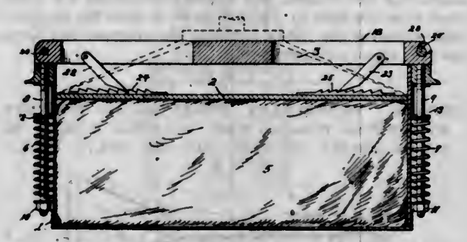
1. In a wall hook, a wall engaging member, an S-shaped member attached thereto and arranged in advance thereof and terminating in a vertical extension, the extension and wall engaging member having coinciding openings therein, and a pin passing through the openings and engageable with the wall and resting on one of the curves of the S-shaped member whereby to sustain the load placed on the pin.

1,687,414. AUTOMATIC MULTIPLE PLATE-CASTING MACHINE. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Nov. 9, 1922, Serial No. 599,745. Renewed Feb. 18, 1928. 39 Claims. (Cl. 22—3.)



3. In a stereotype printing plate mold, the combination with a core, of a back co-operating therewith and having a length sufficient to receive two stereotype printing plate matrices therein in alignment, said back consisting of two parts in axial alignment, each rotatable independently of the other, means for rotating one part of the back independently of the other, and means for connecting the two rotating means to cause the two parts to rotate in unison.

1,687,415. MEAT COOKER. OSCAR MEYER WOLFF, Chicago, Ill. Filed July 25, 1927. Serial No. 208,358. 5 Claims. (Cl. 100—57.)

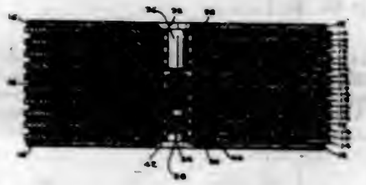


5. A cooker having a cover with brackets at either end of the cooker, bolts extending through the brackets, and spring means abutting the brackets for pressing the bolts downwardly, a bar connecting the upper end of the bolts, and pawls between the bar and cover and co-acting with the cover to hold it down.

1,687,416. STORAGE BATTERY. ALFRED P. WOOD, Minneapolis, Minn., assignor of forty-nine one-hundredths to Francis L. Murray, Minneapolis, Minn. Filed Apr. 30, 1927. Serial No. 187,843. 1 Claim. (Cl. 136—81.)

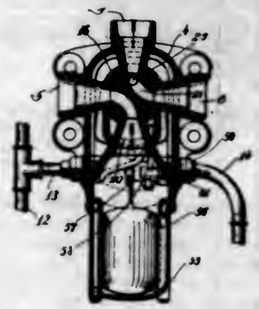
In a storage battery cell, the combination of positive and negative plates, separators for said plates, lead rings cast in place at the centers of the two outside plates, said rings

having outwardly inclined openings therein, and two cooperating bolt members of non-conducting material having screw-threaded engagement with each other at their adja-



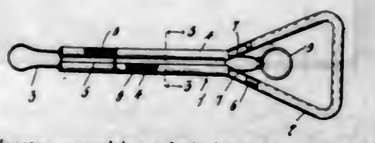
cent ends, said bolt members passing centrally through all of the plates and separators and having inclined heads which fit into said inclined openings.

1,687,417. SAFETY DEVICE FOR LIQUID-MEASURING APPARATUS. HERMANN WYDLER, Bern, Switzerland, assignor to Sauser S. A., Soleure, Switzerland. Filed Aug. 4, 1925, Serial No. 48,147, and in Switzerland Aug. 6, 1924. 2 Claims. (Cl. 221—100.)



2. In a liquid measuring apparatus with two alternately filled and discharged gauged vessels and in combination, a safety device comprising a chamber intercalated into the discharge conduit, a float depending on the level of the liquid within said chamber, a liquid supply pump, a conduit for venting the suction pipe of the pump, an air relief cock controlling this conduit and means transferring the movement from the float to the cock so as to open the air relief cock whenever the rising liquid in the chamber has lifted the float above a certain level.

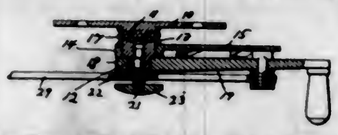
1,687,418. VETERINARY OBSTETRICAL FORCEPS. HUBERT ZINS, Wabasso, Minn. Filed Nov. 3, 1927. Serial No. 230,813. 3 Claims. (Cl. 128—324.)



1. A forceps comprising a body having an upwardly and forwardly inclined front end portion and provided with parallel passages, a handle secured to the rear end of the body, and a gripping loop having extended side members passing through the passages and connected at their rear ends.

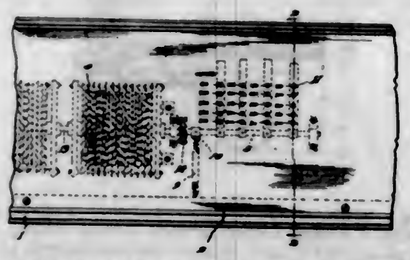
1,687,419. DIRECTION INDICATOR. JOSEPH Y. AINSA, Morenci, Ariz. Filed Mar. 22, 1926. Serial No. 96,590. 2 Claims. (Cl. 74—39.)

1. A device of the character described comprising an attaching plate, a tubular portion carried thereby provided with cutout portions, a locking plate provided with spring fingers, a compression spring interposed therebetween, a collar carried by the locking plate mounted upon the tubular portion having cut-out portions registering with the



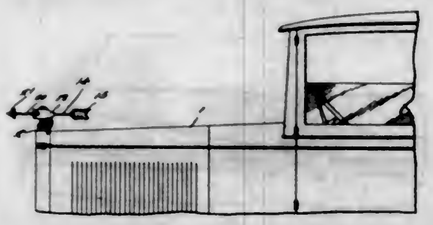
cut-out portions in the tubular portion, a crank arm journaled upon the tubular portion adapted to engage said fingers, and a release mechanism for the crank arm.

1,687,420. DIALLESS RADIO. DALE D. BAST, Braddyville, Iowa. Filed Feb. 11, 1927. Serial No. 167,519. 4 Claims. (Cl. 74—7.)



1. A radio mechanism including a controlling device having a shaft, a plurality of arms projecting from the shaft at different relative angles, a panel provided with rows of openings opposite the respective arms, and a pin adapted to be passed through a selected opening to engage an arm and move the control a predetermined distance.

1,687,421. DIRECTION INDICATOR. GUY LESTER BAUGHMAN, Burbank, Okla. Filed Apr. 10, 1928. Serial No. 268,838. 2 Claims. (Cl. 116—46.)



1. The combination of an automobile, of a direction signal arranged on the cap of the filler spout for the radiator thereof, and including a base having an upstanding ring flange, a headed pivot post removably secured to the base, and extending upwardly therefrom, a lamp house mounted on the pivot post, a drum on the under face of the lamp house received in the ring flange, a semaphore including a tail portion which is secured to the rear of the lamp house, and a front portion having an angle plate on the inner end thereof arranged vertically against the lens of the lamp house and secured thereto, a lamp in the lamp house for directing light through the lens along the opposite sides of the plate, an actuating cable having a coiled portion wound around the drum, flexible guides for the leads of the cable, directed into the automobile, a casing fixed in the instrument board of the automobile to which the ends of the guides are secured, said casing having its face plate formed with a longitudinal slot and having depending central and end passages communicating with said slot, a slide in the casing to which the ends of the flexible element are secured,

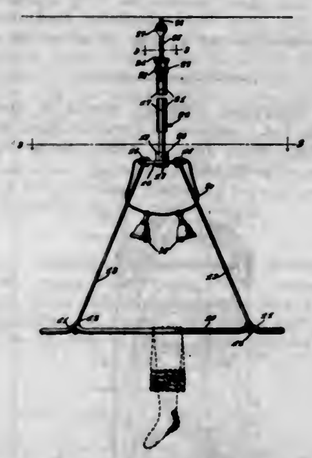
a shank on the slide movable through the slot and into any of the passages which communicate with the slot, a handle on the shank, in combination with means for latching the drum in the ring flange or holding the signal from movement when the same is turned to any of its signaling positions.

1,687,422. CULTIVATOR. WILHELM BENSIEN, Sibatin, Germany. Filed Apr. 8, 1927, Serial No. 182,037, and in Germany Aug. 30, 1926. 1 Claim. (Cl. 97—184.)



A cultivator comprising a wheeled horizontal frame, bell-cranks mounted pivotally in said frame, a tine secured to one arm of each bell-crank, and a spring supported at one end in the frame and acting on the other arm of the bell-crank so as to hold the tine against the ground, the connection between said spring and its bell-crank arm being adjustable for varying the leverage, said latter arm being curved about the supporting point of the spring in the frame to render the spring tension equal in different positions of adjustment.

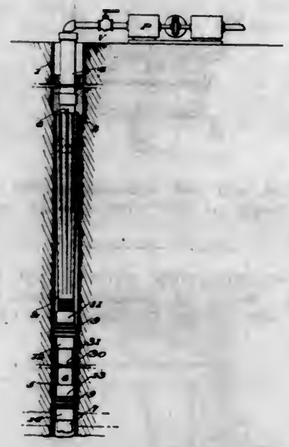
1,687,423. DISPLAY HANGER. JIM ALEX BOATWRIGHT, Thomson, Ga. Filed Nov. 29, 1927. Serial No. 236,515. 1 Claim. (Cl. 211—115.)



A display hanger comprising a hoop having a multiplicity of crimped portions thereon, a plurality of guys having the lowermost ends thereof looped within the crimped portions of the hoop, a disk, the uppermost end of the guys terminating to provide hooked ends adapted for connection with the disk, a rod upstanding from the disk, a sleeve member adjustably mounted thereon to raise and lower said hoop, a thimble carried upon the uppermost end of the rod, a shaft extended within the thimble and having an enlarged head thereon adapted to provide a swivel connection therebetween to permit rotation of said hoop, a spring yoke carried by the disk, and bells suspended from the yoke.

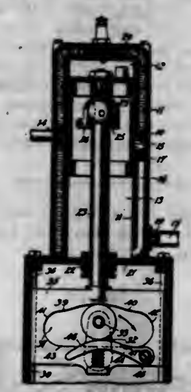
1,687,424. METHOD OF AND APPARATUS FOR CEMENTING OIL, GAS, AND WATER WELLS. ALEXANDER BOYNTON, San Antonio, Tex. Filed Sept. 25, 1925. Serial No. 58,584. 8 Claims. (Cl. 166—10.)

1. An apparatus for use in cementing oil, gas and water wells comprising in combination with the usual well casing, a perforated cement discharge nipple incorporated in the well casing, and a plurality of spaced packers also incorporated in the well casing, the upper packer being designed to shear off some of the material making up the



wall of the well hole, the packers confining the sheared off material between them and causing the sheared off material to be compacted into a dense mass, and a liner carried by the well casing.

1,687,425. INTERNAL-COMBUSTION MOTOR. HENRY BRIGGS, Hasbrouck Heights, N. J. Filed Aug. 12, 1927. Serial No. 212,554. 7 Claims. (Cl. 74—14.)

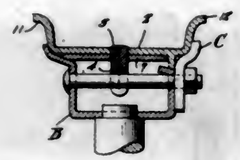


1. In an internal combustion motor, a cylinder, a piston movable therein, a crank shaft, and a connection between the piston and the crank shaft including a cam slotted block attached to the piston, a cam roller carried by the crank shaft, and a tensioned means carried by the cam block for maintaining the cam roller in engagement with the walls of the cam slot.

1,687,426. TIRE RIM. IVA M. CALDWELL, Maryville, Mo. Filed Aug. 17, 1927. Serial No. 213,647. 1 Claim. (Cl. 301—31.)

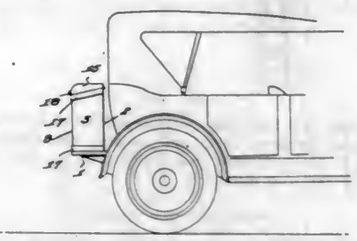
A rim of the character described comprising a plurality of sections arranged in end to end relation in rim formation, tongues formed on each of said sections and received in recesses also formed therein, tire bead flanges formed with the side edges of each section, a recessed

tongue extending centrally and inwardly from one of said sections, an annular band formed with a slot receiving said recessed tongue and securing said sections in rim



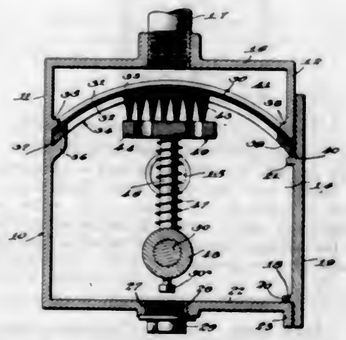
formation, and said last mentioned section and band respectively being provided with openings arranged in registration.

1,687,427. COMBINATION TRUNK AND LUGGAGE CARRIER. ROBERT M. CORMICAN, Casey, Ill. Filed Sept. 23, 1927. Serial No. 221,561. 1 Claim. (Cl. 224—29.)



An attachment for motor vehicles, comprising a trunk including a rear wall, front wall, side walls and a bottom, a luggage carrier including side walls, a bottom and a front wall said front wall being recessed, a door for closing said recess, said luggage carrier being hingedly secured for movement in a vertical plane, and telescopically receiving said trunk when arranged in closed position, said luggage carrier being disposed in a horizontal position when open, and a cover for said trunk and capable of retaining said luggage carrier in its folded position.

1,687,428. SCREEN CLEANER. LEVIN OTIS CORKRAN, Rhodesdale, Md. Filed Jan. 12, 1927. Serial No. 160,745. 1 Claim. (Cl. 210—152.)



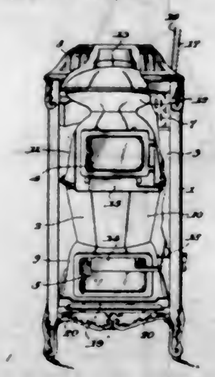
1. A device of the character described comprising a casing having an inlet opening and a discharge opening, said casing adapted to be normally filled with a liquid, a screen separating the casing into an upper and a lower chamber disposed between the inlet and discharge openings, and adjacent the discharge opening, a brush in contact with that side of the screen which is adjacent the inlet opening and adapted to be oscillated across the screen and through the liquid in the casing to cause the liquid to be surged in opposite directions in the lower chamber, oscillating rods in the casing, means for oscillating the rods, said brush being slidably mounted on said rods, means for resiliently maintainining the brush in contact with the screen, said screen being curved outwardly towards the discharge opening.

1,687,429. STENOGAUGE. ROY G. DATSON, Chichagoff, Territory of Alaska. Filed Apr. 28, 1925. Serial No. 25,428. 1 Claim. (Cl. 33—111.)



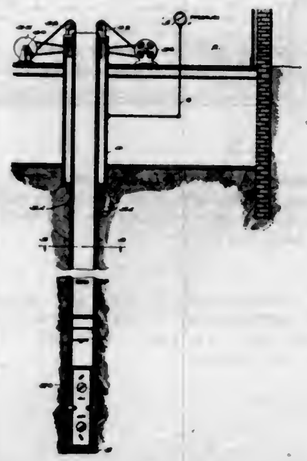
A typewriter gauge for determining the position of the typewriter carriage for centering a caption or the like upon a sheet of paper comprising a strip with a scale along one edge thereof comprising alternate blanks of distinguishable colors, each blank corresponding to the space the carriage of a typewriter moves when the spacer bar or character bar is operated, and two rows of numerals upon the scale, one row being placed under the other, the rows extending parallel to said scale, and one row comprising consecutive numbers arranged adjacent alternate blanks and representing divisions, each of which constitutes two space movements of a typewriter carriage, and the lower row comprising graduations constituting numbers having a value of ten or the multiple thereof.

1,687,430. HEATING STOVE. EDWIN F. DIEKMANN, Evansville, Ind., assignor to Crescent Stove Works, a Corporation. Filed Jan. 24, 1925. Serial No. 4,462. 2 Claims. (Cl. 126—67.)



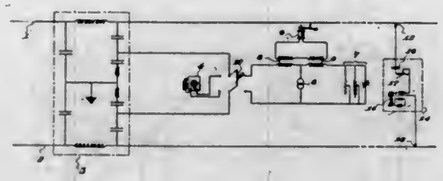
1. A stove or heater comprising a rectangular horizontally arranged base frame provided with internal, inwardly projecting pieces or brackets at its corners, an outer shell or cabinet of rectangular cross sectional shape supported by said base frame, an inner stove or heater whose base has feet at its corners, said feet being supported on the aforesaid brackets, said stove or heater being solely sustained within the shell by said brackets and being wholly contained within and completely surrounded by said shell and separated from it on all of its sides by an air space, detachable connections being provided between the brackets and the feet on the bottom of the stove or heater, and said shell having openings in the lower parts of its sides and in its upper part to permit the passage of air upwardly between the walls of the shell and the heater.

1,687,431. SAFETY DEPOSIT VAULT. CHARLES N. DILATUSH, Lebanon, Ohio, assignor of one-half to William H. Dilatush, Memphis, Tenn., and Frank A. Dilatush, Lebanon, Ohio. Filed Sept. 11, 1926. Serial No. 134,875. 3 Claims. (Cl. 109—1.)



1. An apparatus of the character described comprising an elongated casing located for the major portion of its extent below the ground, locking mechanism having means cooperable with the lower portion of the casing for releasably securing it to the casing, means for raising the locking mechanism when it is disengaged from the casing and a number of containers positioned within the casing and above the locking mechanism, each container having an elastic washer projecting beyond its lower portion to retard its descent in the casing.

1,687,432. COMPOSITE SIGNALING SYSTEM. HERBERT W. DRAKE, East Orange, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1926. Serial No. 137,305. 5 Claims. (Cl. 179—4.)

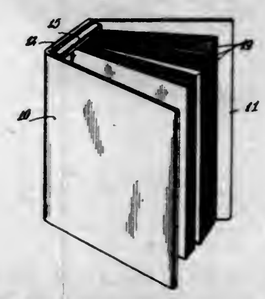


1. In a composite signaling system, a transmission line, a telephone apparatus, a local circuit comprising two sections, means to connect at will either said telephone apparatus or one of said sections to said transmission line, means included in said other section to compensate for the connection of said first section to line whereby neutral points are established between said sections, means to apply an alternating signaling current at said neutral points for transmission over said line, a transformer in said local circuit having primary coils disposed upon opposite sides of one of said neutral points, and an electro-responsive device responding to signaling frequency currents connected to the corresponding secondary coils of said transformer.

1,687,433. PURIFYING BRINE TO BE USED IN ELECTROLYTIC PROCESSES. JULIUS DRUCKER, Cologne, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Aug. 17, 1927, Serial No. 213,693, and in Germany Sept. 29, 1926. 2 Claims. (Cl. 23—45.)

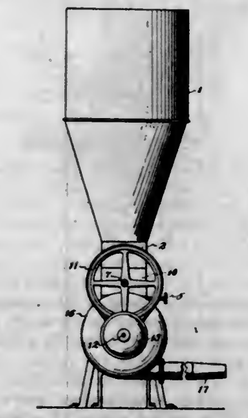
1. The process of purifying brine to be used in electrolytic processes from magnesium and calcium salts which consists in saturating the brine with an alkali metal fluoride and separating the precipitated magnesium and calcium fluorides.

1,687,434. MAGAZINE BINDER. MAX W. FEDERBUSH, JACOB D. FEDERBUSH, DOMINIC J. BAXTER, THOMAS R. BAXTER, and CHARLES FEDERBUSH, New York, N. Y. Filed Apr. 21, 1927. Serial No. 185,567. 2 Claims. (Cl. 129—38.)



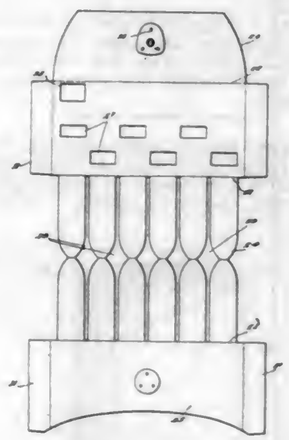
1. In a binder, the combination with spaced apart strip bars having a plurality of apertures for supporting rods engaged with groups of pages, of U-shaped members attached to the binder, and having inner arms, flanges integral with the ends of the said inner arms, other flanges integral with the said strip bars and positioned adjacent the flanges of the inner arms, and screws engaged in the flanges of the inner arms, and engaging the flanges of the strip bars, removably holding the strip bars.

1,687,435. FUEL FEEDER. CLAUDE AROUD FLEETWOOD and WILLIAM H. LYSINGER, Fort Dodge, Iowa, assignors to McLaughlin Coal Reduction Company, Decatur, Ill., a Corporation of South Dakota. Filed June 4, 1927. Serial No. 196,525. 5 Claims. (Cl. 302—37.)



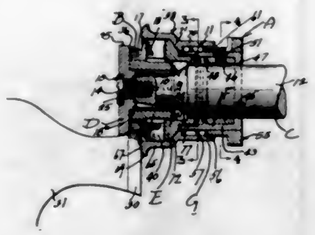
1. In a fuel feeder, a mixing chamber having a helically arranged opening in a side for the introduction of atomized coal into the mixing chamber, and means for circulating air through the mixing chamber to combine with the atomized coal to produce a fuel mixture.

1,687,436. ENVELOPE. PIERRE FORT, Kernan, Ill. Filed Mar. 29, 1924, Serial No. 702,917. Renewed Mar. 5, 1928. 1 Claim. (Cl. 229—73.)



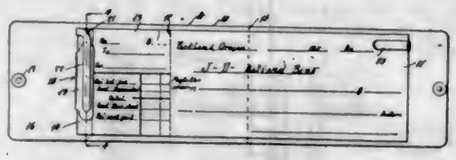
An envelope constructed from a single piece of material and including spaced sections constituting the front and rear walls, and an intermediate section comprising elongated strips projecting from the end sections and having their adjacent ends connected together, the strips of one intermediate section being adapted to be folded upon the strips of the other intermediate section, when said sections are arranged to form the envelope, side flaps projecting from one of the end sections, said end section constituting the front wall having a plurality of spaced openings, adapted to receive the adjacent strip when it is desired to present said strip to view, and a closure flap for said envelope.

1,687,437. SOLE AND HEEL TRIMMING MACHINE. JAMES H. GEORGELIS, Allston, Mass. Filed Feb. 1, 1926. Serial No. 85,353. 8 Claims. (Cl. 12—92.)



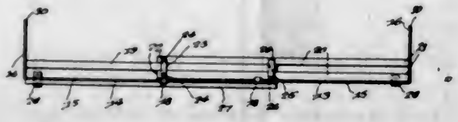
1. In a shoe trimming machine the combination of a shaft, a rotary trimming cutter on the shaft, a sleeve-like guard movable along the shaft including a sleeve-like portion forwardly open to receive the rotary cutter therein and providing a forward guide surface lying peripherally outwardly of the rotary cutter against which a shoe may rest during an edge cutting operation, spring means to urge the guide sleeve towards the rotary cutter to a predetermined guide position, and means for fixing the guide sleeve in a particular guiding and guarding relation with respect to the rotary cutter to prevent longitudinal movement of the sleeve with respect to the cutter.

1,687,438. CHECK-FOLD SPREADER. PHARES A. GETZ, Portland, Oreg. Filed Aug. 9, 1927. Serial No. 211,785. 9 Claims. (Cl. 281—42.)



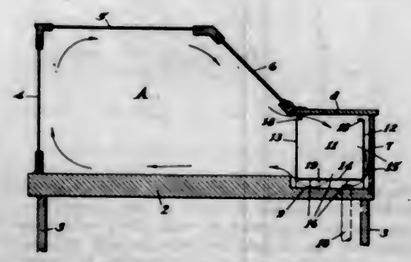
1. A device to hold a normally folded book back and leaves in unfolded position, comprising a body engaging said book back, and means extending from said body to engage said book back and leaves.

1,687,439. COMBINATION WINDOW GUARD AND DRAFT DEFLECTOR. STEVE M. GIRLICH, Chicago, Ill. Filed Mar. 22, 1927. Serial No. 177,391. 2 Claims. (Cl. 98—99.)



1. In a device of the class described, two substantially L-shaped members, means for connecting the stem portion of said members together in slidable relation, spaced apart bars extending parallel to the stem portions of one of said members and suitably secured to the base portion thereof, a bar extending parallel to the stem portion of the other of said members and disposed between said spaced apart bars, and means for connecting said members in slidable relation.

1,687,440. ICE CONTAINER FOR CABINET REFRIGERATORS. JOHN EDWARD GLOEKLER, Pittsburgh, Pa. Filed Aug. 17, 1926. Serial No. 129,747. 3 Claims. (Cl. 62—37.)



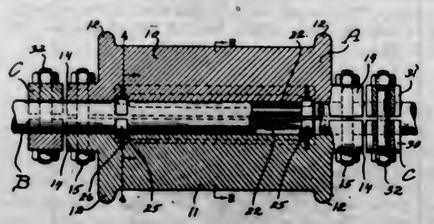
1. In a cabinet refrigerator of the kind disclosed, the combination with an upper casing enclosing a main receiving chamber and a laterally arranged ice-containing chamber in open communication therewith, of a main floor portion having an offset depressed circulation and collecting space at the bottom of the ice-containing chamber and a rear wall and an opening top in the rear of and over said space forming a portion of the casing, and an ice-holding box within the ice-containing chamber having an imperforate wall confronting the main chamber, a perforated bottom spaced inwardly above the depressed off-set bottom portion, a perforated rear wall confronting and spaced inwardly from the rear casing wall, and an open top spaced below the opening top of the ice-containing chamber.

1,687,441. TREAD MATERIAL AND METHOD OF MAKING THE SAME. JAMES E. GROSJEAN, Lima, Ohio. Filed June 26, 1924. Serial No. 722,552. 3 Claims. (Cl. 18—55.)



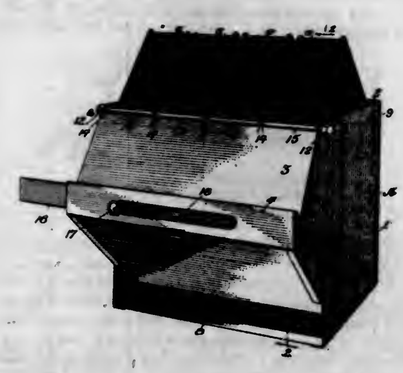
1. The method of making a tread surface which comprises subjecting a mass of uncured waste cord or fabric tire stock consisting wholly of uncured friction coated and impregnated cords extending promiscuously therein to a drawing action to rearrange the cords so that most of them are caused to extend in the same direction and to distribute the cords loosely and uniformly while maintaining the cords of substantial length, rolling the resulting product to form it into a smooth sided sheet having most of the cords extending longitudinally thereof, cutting such sheet transversely to form strips, assembling said strips side by side so that most of the cords therein extend in the same direction in all the strips and to form a tread wherein most of the cords are presented endwise to the tread surface, and vulcanizing the assembled strips to bond together elastically the friction coated and impregnated cords composing them and to unite the strips.

1,687,442. PULLEY. FRANK J. HARDLEY, Los Angeles, Calif. Filed Oct. 25, 1926. Serial No. 144,103. 5 Claims. (Cl. 192—45.)



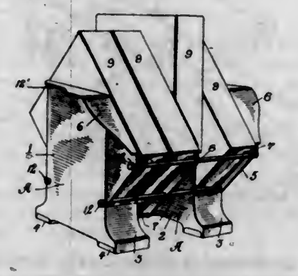
1. A pulley comprising longitudinally divided sections, having bearing forming extensions provided at each end thereof, bolts passing through the extensions of the companion sections for securing the sections in assembled relation about a shaft, gripping rollers arranged longitudinally of each pulley section for binding engagement with the shaft when the pulley is acted upon in one direction, said gripping rollers having their ends terminating inwardly of the extensions of the pulley sections, and means carried by each pulley section for retaining the respective rollers thereof against displacement when the sections are in non-assembled relation.

1,687,443. BOOKSTAND. WALTER EASTER HASKIN, New York, N. Y., assignor to Pressed and Welded Steel Products Company, Long Island City, N. Y., a Corporation of New York. Filed July 21, 1926. Serial No. 124,011. 7 Claims. (Cl. 312—34.)



1. A device of the character described, including a casing, a rod secured to the casing, a plurality of binders, brackets fixed to the binders intermediate the ends of the backs of the binders and pivotally connected to the rod, an inclined front wall on the casing, and a laterally offset portion of said wall forming a ledge against which the binders are supported when swung out of the casing.

1,687,444. BOOKSTAND. WALTER EASTER HASKIN, New York, N. Y., assignor to Pressed & Welded Steel Products Company, Long Island City, N. Y., a Corporation of New York. Filed Jan. 12, 1927. Serial No. 160,681. 4 Claims. (Cl. 312—43.)

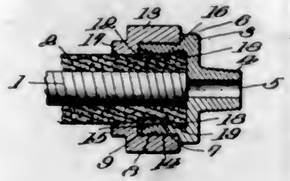


1. A bookstand, including a pair of hollow supporting members spaced apart, rods connecting said supporting members, a book holder normally having its back portion exposed and pivotally connected between its ends to one of said rods whereby a book supported by said holder when in normal position rests upon other of said rods, and a pivotal movement of said book holder moves the book supported thereby from a position between the supporting members and permits the book to be opened and supported upon its pivot and other parts of said bookstand.

1,687,445. HOSE COUPLING. GEORGE EDGAR HAZARD, Rochester, N. Y., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Filed June 18, 1925. Serial No. 37,939. 1 Claim. (Cl. 285—87.)

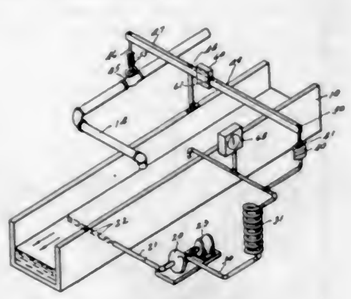
A hose coupling comprising a body member having an opening, a rubber hose passing through and fitting the said opening, the body member having an enlarged internally

screw-threaded portion forming a space between it and the outer surface of the hose, the hose passing through the body member a distance greater than the length of the internally screw-threaded flange, a clamping member having an externally threaded portion fitting within the internally threaded flange portion, the externally threaded flange member having an opening substantially equal to the diameter of the hose portion, a metallic core for the hose, the



externally screw-threaded member having its outer end reduced and abutting against the hose, the outer end of the inner surface of the externally screw-threaded flange portion enlarged outwardly, a clamping ring engaging the said hose, whereby when the clamping member is forced inwardly the extremity of the hose is forced outwardly into the said inner enlarged portion of the externally threaded flange, substantially as described.

1,687,446. FLOW REGULATION. JAMES A. HEDGCOCK, Dayton, Ohio, assignor to The Management Engineering and Development Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 29, 1927. Serial No. 164,448. 15 Claims. (Cl. 92—46.)

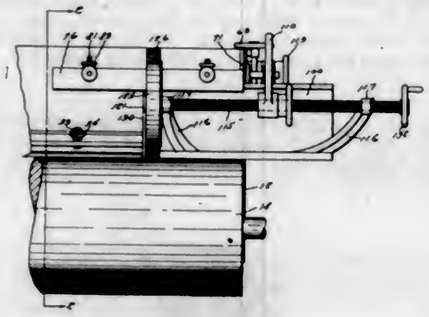


11. In the preparation of fibrous stock of controlled consistency, the method which comprises impressing a predetermined head upon fibrous stock within a flow passage, and controlling the supply of dilution liquid to the fibrous stock in accordance with the residual head effective at a predetermined point in the flow passage.

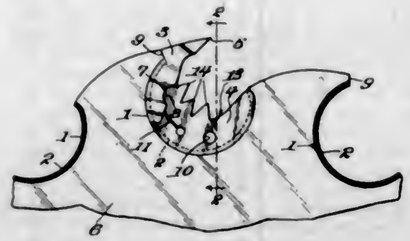
13. In apparatus of the character described for controlling the consistency of fibrous stock, a flow passage to which fibrous stock is supplied, means for impressing a predetermined head upon the stock within said passage, a dilution liquid supply means for the fibrous stock, and means responsive to the residual head effective at a predetermined point in said flow passage for controlling said dilution liquid supply means.

1,687,447. PAPER-MAKING MACHINERY. RALPH E. HEISEL, Chillicothe, Ohio, assignor to The Mead Pulp & Paper Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 12, 1925. Serial No. 15,018. 17 Claims. (Cl. 92—44.)

1. In apparatus of the character described comprising a paper forming part and a source of supply of paper making stock; inlet means for flowing a stream of the paper making stock of controlled thickness upon the paper forming part, and means for varying the effective width of the stream of flowing stock without movement of the parts of said inlet means which effect such thickness control.

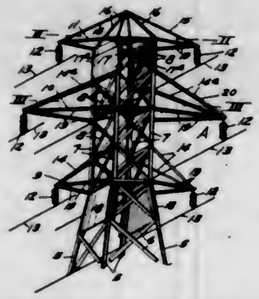


1,687,448. CIRCULAR SAW. OSSION H. HILDRETH, Wilton, Me. Filed Apr. 30, 1927. Serial No. 187,880. 3 Claims. (Cl. 143—141.)



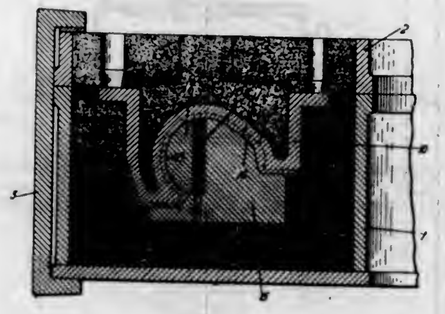
2. In an inserted tooth saw a replaceable tooth having an inner recessed locking section carrying a plurality of sharp teeth.

1,687,449. TOWER CONSTRUCTION. HAROLD O. HILL, Aspinwall, Pa., assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 28, 1926. Serial No. 125,420. 3 Claims. (Cl. 189—33.)



1. In a structural tower, the combination with a suspended insulator string carrying a transmission wire, of an upper body portion formed of angular members, a cross-arm formed of angular members, a metallic protector plate on the body adjacent the cross-arm, and metallic protector elements for the cross-arm members having curved surfaces.

1,687,450. APPARATUS FOR CASTING MOLDS OR THE LIKE. ROBERT M. HINMAN, Akron, Ohio, assignor to The State Foundry and Pattern Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 21, 1926. Serial No. 103,521. 4 Claims. (Cl. 22—174.)



1. A chill for forming annular cavities in annular articles, comprising two annular portions, one of said portions being a solid chill and the other portion a sectional chill, and a layer of cushioning material between the two portions of the chill.

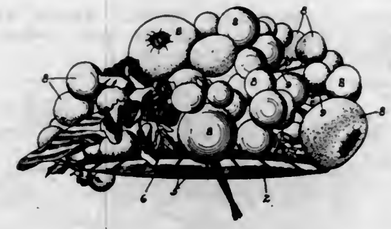
1,687,451. COMBINATION VANITY CASE AND POWDER PUFF. JOSEPH HOELLRIGL, Manchester, N. H. Filed Oct. 28, 1927. Serial No. 229,879. 3 Claims. (Cl. 132—78.5.)



1. A combined vanity case and powder puff comprising a cylindrical casing, a closure lid therefor, a handle member carried by the closure lid, a mirror positioned within the closure lid, a bottom for the casing being convexed and apertured, a false bottom slidably mounted upon the bottom and having openings therein registering with the apertures in the bottom, a puff carried by the false bottom, a partition member carried within the casing adapted to provide a compartment immediately above the bottom for loose powder which may be discharged when the puff is called into use, and containers for different toilet articles being supported upon the partition.

1,687,452. TRANSLUCENT DECORATION. ELSIE H. HORTON, Minneapolis, Minn. Filed Nov. 27, 1922. Serial No. 603,581. 1 Claim. (Cl. 240—10.)

The combination of a dome-shaped form to provide a recessed portion to receive a lamp, a translucent fabric covering for said form said covering being coated with a gelatinous substance which hardens on exposure to give the covering a glazed surface, a series of translucent form retaining structures made up each of an interior tinted fabric cover with a translucent coating shaped and colored to imitate fruit and vegetables said structures grouped upon said



dome-shaped structure whereby when said lamp is lighted, a combination of the colors upon the translucent fabric covering and the hollow structures will be brought out.

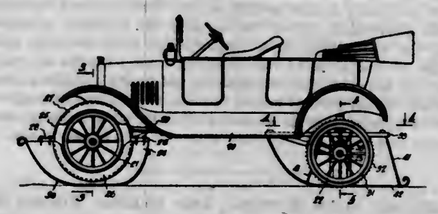
1,687,453. MANUFACTURE OF GLASS, SAND, OR FLINTPAPER, EMERY CLOTH, AND LIKE ABRASIVES. CARL ADOLPHE KLEIN, Brimsdown, and ROBERT SKIRVING BROWN, London, England. Filed Oct. 28, 1925, Serial No. 65,486, and in Great Britain Aug. 26, 1925. 4 Claims. (Cl. 51—278.)

1. A process for the manufacture of waterproof sheet abrasive material consisting in waterproofing the base by passing it through a bath of linseed oil containing a small proportion of a suitable wax and kept at a temperature of at least 100° C.; removing any surplus by means of pressure rollers also kept heated to 100° C. or over; applying the adhesive consisting of a mixture of a drying oil with a synthetic resin also at a temperature of over 100° C.; applying the abrasive material to the base thus prepared and baking at a temperature of over 100° C.; and applying a second coating of adhesive and rebaking also at a temperature of over 100° C.

1,687,454. GLASS, SAND, OR FLINT PAPER, EMERY CLOTH, OR LIKE ABRASIVE. CARL ADOLPHE KLEIN, Brimsdown, and ROBERT SKIRVING BROWN, London, England. Filed Oct. 28, 1925, Serial No. 65,487, and in Great Britain Aug. 26, 1925. 7 Claims. (Cl. 51—279.)

1. A waterproof sheet abrasive material comprising a base, a waterproofing composition applied to such base as a preliminary treatment and consisting of linseed oil with a small proportion of paraffin wax, an adhesive composition subsequently applied and consisting of a drying oil with a gum, and an abrasive material.

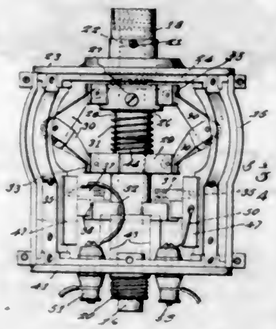
1,687,455. AUTOSLEIGH. FRANCIS ALBERT KLEIN, Xenia, Ohio. Filed Dec. 26, 1922. Serial No. 608,982. 3 Claims. (Cl. 180—6.)



1. The combination with the axle of a vehicle, of grooved blocks on the axle, a frame, runners carried by the frame and each having portions working in the grooves of the blocks, housings on the blocks, plates movable in the

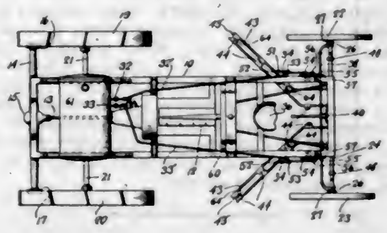
housings, springs in the housings and engaging the plates, said plates and spring serving to yieldingly support the runners, and screws mounted in the frame and engaging the said plates.

1,687,456. AUTOMOBILE SIGNAL. SAMUEL KLOOS, Alliance, Ohio. Filed Sept. 22, 1926. Serial No. 137,128. 3 Claims. (Cl. 200—80.)



1. In a speed responsive circuit closer, a plurality of fixed contacts, a rotatable shaft, a governor associated with said shaft and including a collar mounted for sliding movement thereon, said collar including a sleeve-like portion, horizontally disposed extensions projecting from the lower end of the sleeve, and a spring pressed laterally movable contact mounted on each extension, and adapted to singly engage the fixed contacts at relatively different speeds of rotation of the shaft.

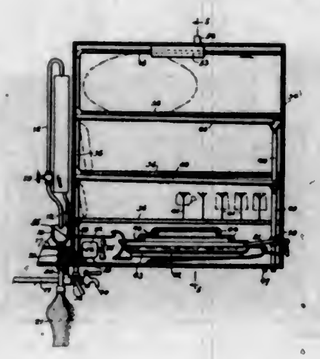
1,687,457. TRACTOR CULTIVATOR. IRVIN K. KREIDER, Lancaster, Pa. Filed Oct. 28, 1925. Serial No. 65,419. 1 Claim. (Cl. 97—47.)



In a device of the class described, a main frame, ground wheels, means for driving some of said wheels, an arched front axle and a rear axle for mounting the ground wheels, and cultivator gangs including bars having their forward ends converging, clamp-like hangers for pivotally connecting the converging ends, respectively, with the base portions of the arch of the front axle, and means for separately changing the elevation of the gangs at points rearwardly of the pivotal points thereof, these means including levers pivoted on the frame and links controlled by the levers and having connection with the bars of the gangs.

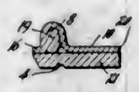
1,687,458. DISH WASHER AND DRIER. WILLIAM H. LANCELOT and JAMES A. STARRAK, Ames, Iowa. Filed June 15, 1927. Serial No. 199,008. 5 Claims. (Cl. 141—9.)

1. In an apparatus of the class described, a casing, a pan at the bottom of the casing interiorly thereof, a heater beneath the pan, means for conducting water to the pan, said heater serving for heating the water in the pan, said pan having a cover consisting of sections overlapping each



other in spaced relationship to allow steam to rise from the pan, and supporting means in the casing above the pan for supporting divers articles to be steamed.

1,687,459. WELT AND METHOD OF MAKING THE SAME. HARRY LYON, Brockton, Mass., assignor to John A. Barbour, Brookline, Mass., and Perley E. Barbour, Quincy, Mass., doing business as Barbour Welting Company, Brockton, Mass. Filed Feb. 25, 1924, Serial No. 694,814. Renewed Feb. 29, 1928. 5 Claims. (Cl. 36—78.)



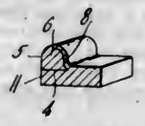
1. The method of making a welt which comprises severing a layer from the grain side of a leather strip, and fixing to the upper face of the body of the strip blank the said layer partly wrapped about a leather core strip of greater thickness than said layer, thereby to form a bead between its edges on one face of said body.

1,687,460. BEADED WELTING AND METHOD OF MAKING. HARRY LYON, Brockton, Mass., assignor to Barbour Welting Company, Brockton, Mass., a Copartnership of John A. Barbour, Brookline, Mass., and of Perley E. Barbour, Quincy, Mass. Filed June 26, 1924. Serial No. 722,553. 15 Claims. (Cl. 36—78.)



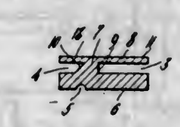
1. A welt comprising a body portion having an integral bead formed thereon on one face and showing the same surface as the unbeaded portion of said face at the outer side thereof, the exposed surface at the inner side of said bead being different from the surface at said outer side, the welt on opposite sides of the bead being of substantially the same thickness.

1,687,461. WELTING. HARRY LYON, Holbrook, Mass., assignor to Perley E. Barbour, Quincy, Mass. Filed Aug. 20, 1925. Serial No. 51,375. 8 Claims. (Cl. 36—78.)



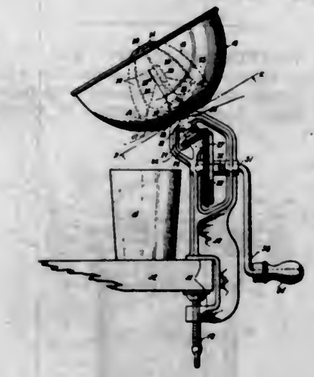
1. A welt comprising a base strip having a bead projecting from one face of and flush with one edge of said base strip.

1,687,462. BEADED WELTING. HARRY LYON, Holbrook, Mass., assignor to Perley E. Barbour, Quincy, Mass. Filed Oct. 7, 1925. Serial No. 61,063. 10 Claims. (Cl. 36—78.)



1. The method of forming a welt which comprises removing portions inwardly from the edges from a blank strip between its side faces to leave a core strip portion between said edges and faces and fixing together the material on opposite sides of said removed portions to form a strip having thinned edge portions and an intermediate thickened rib.

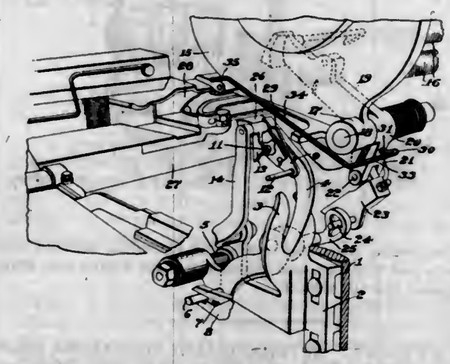
1,687,463. JUICE EXTRACTOR. JOHN MOSCRIP, Tampa, Fla., assignor to Florida Citrus Exchange, Tampa, Fla., a Corporation of Florida. Filed Apr. 23, 1926. Serial No. 104,039. 2 Claims. (Cl. 146—3.)



2. An extractor head of the class described comprising an extracting section and a closure therefor, the closure being formed into an integral attaching means at its apex for engagement with operating mechanism, and the closure being substantially conical to form a guide for effecting engagement of said attaching means with operating mechanism.

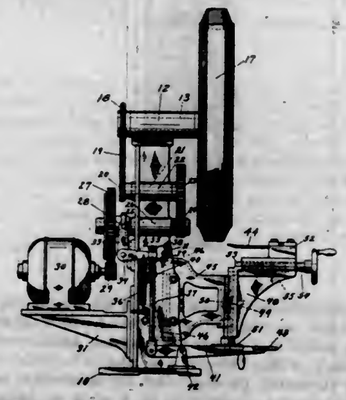
1,687,464. SHUTTLE-FEELER THREAD-PARTER-OPERATING MECHANISM. JAMES R. REECE, Salisbury, N. C., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 5, 1927. Serial No. 237,640. 4 Claims. (Cl. 139—207.)

1. In a filling replenishing loom, the combination of a hopper, a pivotally mounted transferrer having a downwardly projecting arm provided with an opening from front to rear thereof, a dog pivotally connected to said arm for operating the transferrer, a shuttle feeler having a thread parter, a parter closing member constituted as an arm having a backwardly extending securing end engaged



in said opening of the downwardly projecting arm and provided with a lateral bend terminating in a backward extension with its terminal end portion above the parter when in parting position to close the parter when filling replenishment is effected.

1,687,465. METHOD AND APPARATUS FOR RESURFACING SOLID TIRES. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 14, 1924. Serial No. 743,581. 3 Claims. (Cl. 164—48.)

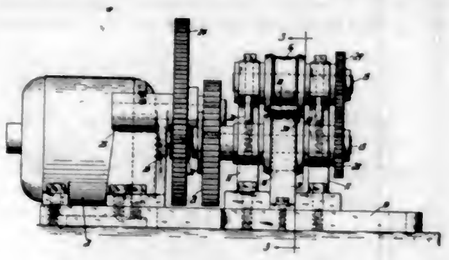


1. Apparatus for resurfacing solid rubber tires comprising means for supporting and rotating a tire, a movable knife, means for moving the knife from a remote position to a position adjacent the periphery of the tire, the blade of the knife being directed substantially transversely of the peripheral surface of a tire mounted on said supporting means, means for moving the knife radially of the tire in the last position and means for moving the knife transversely of the tire to cut a layer of stock from its outer surface.

1,687,466. DEVICE FOR TRIMMING RUBBER STRIPS. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 28, 1925. Serial No. 46,599. 3 Claims. (Cl. 164—60.)

1. Apparatus of the class described, comprising a pair of spaced brackets each formed with an inherently slightly

yieldable overhanging arm, a pair of rotatable knives journaled on said brackets, one knife being journaled on said



overhanging arms, and cap-screws extending through said arms and threaded into said brackets for urging said knife against the other knife.

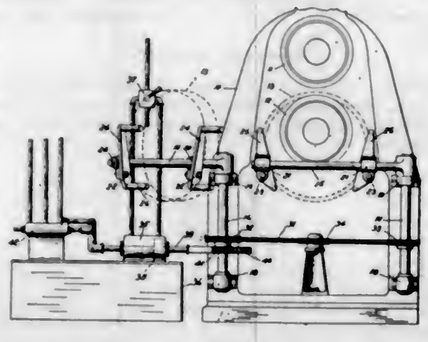
1,687,467. AUTOMATICALLY-THREADING LOOM SHUTTLE. WALLACE I. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 29, 1927. Serial No. 236,434. 1 Claim. (Cl. 139—213.)



An automatically threading loom shuttle having a bobbin chamber, the end and side walls of which adjacent the delivery end of the shuttle are provided with a continuous countersink, a side delivery eye, and a longitudinally extending threading passage, and an unwinding yarn engaging controller constituted as a strip of animal skin seated and secured in the continuous countersink of the end and side walls of the bobbin chamber and having loose individual fibres which extend from the countersunk skin inwardly of the bobbin chamber and bear upon the under portion of the conical winds of thread and the end of the bobbin and form an individual yielding fibrous seat in which the end of the bobbin rests during weaving.

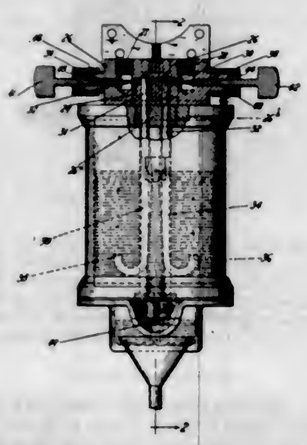
1,687,468. RIM-FEEDING DEVICE. WINFIELD SCOTT BRINK, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 6, 1926. Serial No. 146,597. 4 Claims. (Cl. 80—43.)

1. In combination with a machine having relatively movable rolls, a supporting arm attached to a vertical shaft mounted on said machine, said shaft being journaled to swing said arm into and out of alignment with said rolls to deliver a blank rim therebetween, a second supporting arm attached to a vertical shaft, said shaft being journaled to swing said second arm out of and into alignment with said rolls, successively and alternately with said first arm, to remove a rolled rim from said rolls, a large sprocket keyed to said first-mentioned shaft, a smaller sprocket keyed to said last-mentioned shaft, a chain connecting said sprockets, whereby said arms may be swung in definite angular relation to each other and the delivering



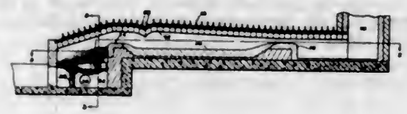
arm swung through a lesser angle than said removing arm, means for swinging said arms, comprising a double-acting air cylinder having attached to the piston rod thereof a gear rack meshing with a pinion keyed to said first-named shaft, a valve shiftable by said piston rod for controlling the relative movement of said rolls in timed relation to the rim-delivering operation, a manually operable valve for controlling said air cylinder, and a standard for ejecting a rolled rim from the second supporting arm as the latter is swung away from said rolls.

1,687,469. INSTRUMENT PUMP. ROY W. BROWN, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 20, 1925. Serial No. 10,526. 11 Claims. (Cl. 230—92.)



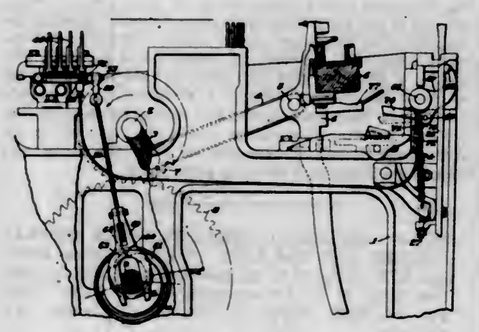
1. A constant flow pump comprising a vessel having a fluid inlet therein and means for evacuating the vessel, said evacuating means being adapted to maintain a constant head of a liquid in the vessel above said inlet.

1,687,470. METALLURGICAL FURNACE. HOWARD BUTT, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 25, 1925. Serial No. 18,157. 1 Claim. (Cl. 263—40.)



A metallurgical furnace comprising walls defining a heating chamber, and a combustion chamber connected by a narrow restricted passage over a bridge wall, an underfeed retort in the combustion chamber substantially parallel with and adjacent to the bridge wall, a fuel support laterally of the retort and arranged to receive fuel therefrom, means to feed fuel progressively to the retort and on to the support, means to feed air through the fuel bed on the support to cause combustion, and means to supply a limited amount of air to the fuel in the retort, whereby combustible gas is produced in large quantity, the roof of the furnace being located close to the fuel bed to restrict combustion thereover, and sloping to reflect heat from the burning fuel on the support to the fuel in the retort, and having a deflecting portion so arranged that the air and combustible material are projected towards the bottom of the heating chamber as they enter the latter and they are caused to mix thoroughly and burn as a long flame.

1,687,471. LOOM-STOPPING MECHANISM. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 26, 1927. Serial No. 208,495. 10 Claims. (Cl. 139—366.)



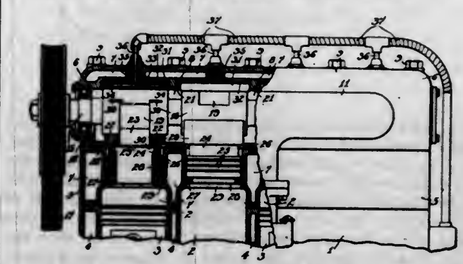
1. In a loom, the combination of the lay and shuttle boxes, a warp stop mechanism having a transversely movable toothed detector bar constructed so that its movement in either direction will effect loom stoppage upon detecting a displaced drop wire, means for imparting a transverse detecting movement to the bar only on alternate beat-up movements of the lay, a series of drop wires normally supported by the warp threads during weaving, a shipper knock-off dog at the front of the loom under control of the warp stop mechanism, a bunter carried by the lay to engage the dog on the occurrence of a warp fault upon an alternate frontward movement of the lay that the loom may be brought to rest with the shuttle always in the same box.

1,687,472. EMERGENCY APPLICATOR AND METHOD OF PRODUCING IT. WILLIAM ROWLAND DORMAN, WILLIARD V. SUYDAM, and DUANE RICE STONELEIGH, New Brunswick, N. J., assignors to Johnson & Johnson, New Brunswick, N. J., a Corporation of New Jersey. Filed July 22, 1927. Serial No. 207,713. 7 Claims. (Cl. 128—269.)



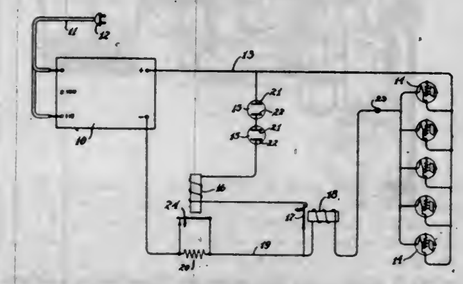
1. A surgical applicator embodying a swab formed of a cotton roll whereof the handle portion is impregnated with a stiffening and fluid repellant substance and whereof the tip is wetted with antiseptic, and a cylindrical shell telescoping and hermetically sealing the tip and from which the handle portion protrudes.

1,687,473. ROTARY VALVE FOR EXPLOSIVE ENGINES. OSCAR L. DUGGER and CHARLES M. DUGGER, Evansville, Ind., assignors to Rotary Valve Company, Evansville, Ind., a Corporation of Indiana. Filed July 31, 1926. Serial No. 126,165. 6 Claims. (Cl. 123—190.)



1. In an internal combustion engine the combination with a rotary valve, of a movably mounted ported packing seated against the face of said valve and having a ported neck connecting the packing with the engine cylinder, means for rigidly connecting one end of said packing to the engine cylinder, said neck having a flexible portion to permit relative movement between said packing and the cylinder and a hollow gland telescoping inside of said neck to prevent said neck from receiving the pressure of the exploded charge.

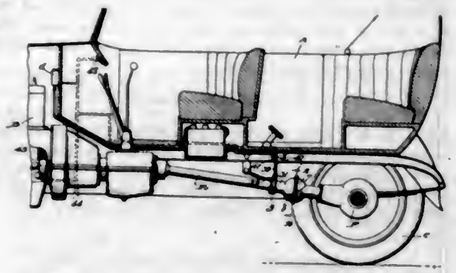
1,687,474. FILAMENT-VOLTAGE REGULATOR. EDGAR W. ENGLE, Lake Forest, and HAROLD L. OLESEN, Highland Park, Ill., assignors to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Sept. 17, 1926. Serial No. 136,170. 9 Claims. (Cl. 250—27.)



3. In an "A" current supply system for radio receivers a source of direct current supply, filaments of thermionic

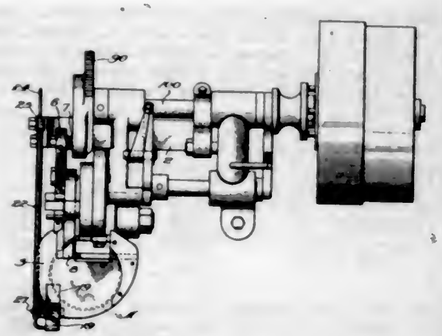
tubes, connections between said filaments and said source, a series of electrolytic valve cells in parallel with said filaments and means including an electromagnet for inserting a resistance in said filament circuit when the current flowing through said cells exceeds a predetermined maximum.

1,687,475. AUTOMOBILE LOCK. FRANK M. GILLENWATERS, Leavenworth, Kans., assignor of forty one-hundredths to William R. Sweet, Independence, Kans., and twenty per cent to Arthur W. Stanley, Leavenworth, Kans. Filed Jan. 29, 1924, Serial No. 689,383. Renewed May 31, 1928. 3 Claims. (Cl. 70—127.)



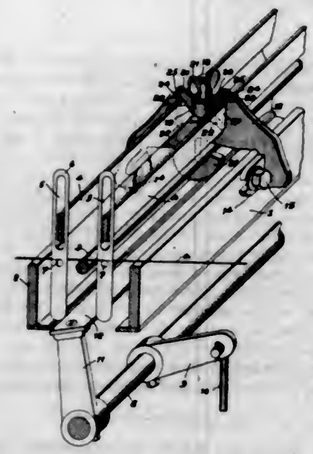
1. In a device of the character described in combination with a propelling shaft, of a pair of casings about said shaft, lugs carried by said casings at their abutting portions extending inwardly therefrom and having recesses therein at their abutting portions to form one large recess, a pair of pins carried by each lug which extend inwardly and into said recess, the pins upon one lug being aligned with the pins upon the opposite lug, a pair of locking arms adapted to be received in said recess and pivoted upon said aligned pins, and means upon said arms for engaging said propelling shaft for preventing rotation thereof.

1,687,476. MACHINE FOR TYING KNOTS IN SPIRAL SPRINGS. DARWIN HANAUER, La Grange, Ill., assignor to Kinney Rome Company, a Corporation of Illinois. Filed Sept. 18, 1926. Serial No. 136,282. 7 Claims. (Cl. 140—101.)



1. In a machine of the character described, a movable work-supporting table, an anvil mounted on the table for movements between a position in which it projects above the table and a position in which it is retracted below the table, and means controlled by movements of the table to shift the anvil from one of its positions to the other.

1,687,477. WARP-STOP MECHANISM FOR LOOMS. RUFUS C. HUNTER, Graham, N. C., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 16, 1928. Serial No. 254,840. 8 Claims. (Cl. 139—369.)



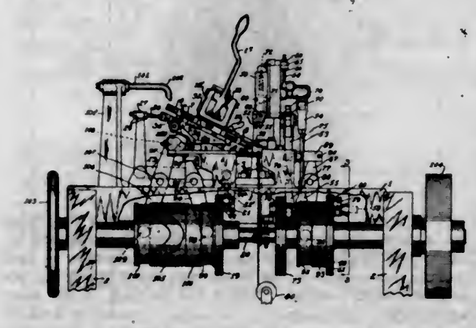
1. In a warp stop motion for looms, the combination of longitudinally extending warp rests, longitudinally extending drop wire guides intermediate the warp rests, a bridge secured to the warp rests and having a central opening, the side walls of which are spaced apart a distance substantially equal to the transverse separation of the drop wire guides, a threaded stud extending upwardly between the walls of the central opening, a clamping device loosely mounted on the threaded stud and having portions extending over the drop wire guides, and a nut threaded to the stud above the clamping device to force the latter into clamping relation with the drop wire guides.

1,687,478. ARTIFICIAL EYES FOR DOLLS, DISPLAY FIGURES, AND THE LIKE. SAMUEL MARCUS, Brooklyn, N. Y., assignor to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 26, 1923. Serial No. 634,724. 2 Claims. (Cl. 46—40.)



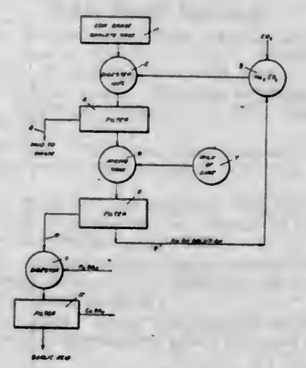
1. An eye-set for dolls and the like comprising eyes having segmental caps fixed upon their upper convex portions, said caps having front convex lower edges, and eyelashes held between the caps and the eyes and said lashes being secured by adhesive directly against the caps, at points removed from the lower edges of the caps, and projected forwardly along the lower convex edges of the caps and at an angle thereto, the lower front edges of the lashes extending on convex lines approximating the convexity of the edges of the caps.

1,687,479. BUCKLE-STRAP SEVERING AND ASSEMBLING MACHINE. EUGENE E. CLEMENTS, New Haven, Conn., assignor to L. Candee & Company, New Haven, Conn., a Corporation of Connecticut. Filed May 7, 1926. Serial No. 107,335. 19 Claims. (Cl. 12—1.)



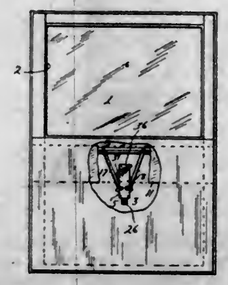
1. An assembling machine comprising presser means, reciprocable means for holding an article adjacent the presser means, means for inserting a strip of material into association with the article, and means for withdrawing the article through the presser means whereby the strap ends are folded.

1,687,480. METHOD OF RECOVERING OXALATES. GUY H. BUCHANAN, Westfield, N. J., and GEORGE BARSKY, New York, N. Y., assignors to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Sept. 4, 1924. Serial No. 735,757. 6 Claims. (Cl. 260—118.)



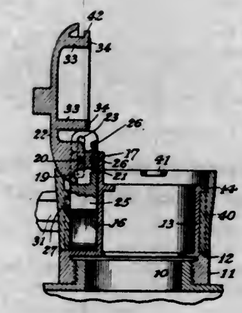
1. The method of converting calcium oxalate into an alkali metal oxalate which comprises reacting on calcium oxalate with an alkali metal carbonate in the presence of water above 40° C., said alkali metal carbonate being present in an excess of about 15% to 35% over the theoretical required, and recovering a solution of alkali metal oxalate.

1,687,481. WINDOW REGULATOR. BURTON S. FLORADAY and HOWARD B. HASKINS, Toledo, Ohio, assignors to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Mar. 25, 1927. Serial No. 178,203. 12 Claims. (Cl. 268—126.)



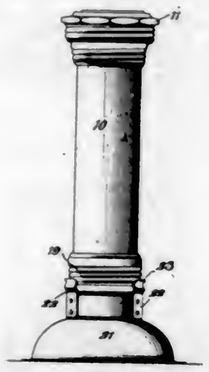
1. In a window regulator, the combination with a pair of angularly movable lifter arms, a gear segment connected to each lifter arm, said gear segments being laterally offset from each other, and a toothed member having laterally offset toothed portions meshing with said gear segments for actuating the same.

1,687,482. RACK-ACTION RADIATOR CAP. HARRY STIMPSON GILLETTE, New York, N. Y., assignor to Gillette Motor Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 7, 1926. Serial No. 134,000. 9 Claims. (Cl. 220—24.)



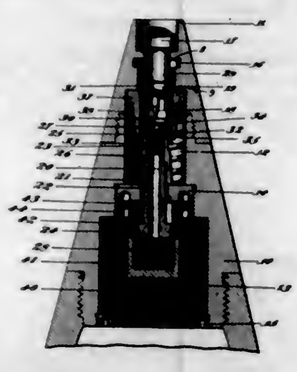
1. A radiator cap comprising a fixed base member, a member movable thereon, a cover carried in hinged relation by the fixed member said cover having a segmental gear, a gear block adapted to engage the segmental gear and having a projecting pin, and means engaging said pin when the movable part is turned for raising the gear block to swing the cover to the open position, and means for locking the parts in such position.

1,687,483. ELECTRIC LAMP AND SUPPORT THEREFOR.. HARRY M. KORETZKY, Hoboken, N. J. Filed Aug. 20, 1926. Serial No. 130,506. 2 Claims. (Cl. 240—10.5.)



1. A self-contained electric lamp having an external casing and a terminal threaded cap having means to control the lamp circuit by relative rotatory movements of said casing and cap; in combination with an empty bowl-shaped base having springs adapted to receive said cap between them with a firm gripping pressure, said springs being adapted to afford a stable support for the base when the latter is inverted.

1,687,484. SAFETY HIGH-EXPLOSIVE IMPACT FUSE. PIETER DANIEL VAN ESSEN, the Hague, Netherlands, assignor to Bethlehem Steel Company, a Corporation of Pennsylvania. Filed May 15, 1924. Serial No. 713,514. 47 Claims. (Cl. 102—39.)



1. In a fuse for a projectile, the combination of a firing pin, a detonator member, a spacing member interposed between the firing pin and the detonator member so that forward movement of the latter will move the firing pin to its forward position through the medium of the spacing member, and means for normally preventing forward movement of the spacing member and rendered ineffective upon discharge of the projectile from a gun.

Patents Nos. 1,687,485 to 1,688,317.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 375—No. 3. TUESDAY, OCTOBER 16, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.
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Prints	9—No.	11,263 to No.	11,271, inclusive.
Reissues	3—No.	17,103 to No.	17,105, inclusive.
Designs	64—No.	76,594 to No.	76,657, inclusive.
Patents	833—No.	1,687,485 to No.	1,688,317, inclusive.
Total	1,372		

Trade-Marks Canceled.

151,032. Certain named toilet preparations. Heinrich Chemical Company, Minneapolis, Minn. Registered January 10, 1922. Canceled September 28, 1928.

158,948. Work shirts. Feldman & Weinman, Baltimore, Md. Registered September 19, 1922. Canceled September 19, 1928.

160,128. Coal. The Apex Coal Company, Fort Smith, Ark. Registered October 17, 1922. Canceled September 19, 1928.

206,373. Sirup for food purposes. New Orleans Coffee Company Ltd., New Orleans, La. Registered December 1, 1925. Canceled September 28, 1928.

210,175. Steam-distilled pine-oil disinfectant. The Selig Company, Atlanta, Ga. Registered March 9, 1926. Canceled September 28, 1928.

220,439. Candy. United Confectionery Co., St. Louis, Mo. Registered November 9, 1926. Canceled September 28, 1928.

239,275. Certain named radio and phonograph apparatus. Newcombe-Hawley, Inc., St. Charles, Ill. Registered February 28, 1928. Canceled September 28, 1928.

243,148. Precious stones and jewelry. Powers & Mayer, Inc., New York, N. Y. Registered June 12, 1928. Canceled September 28, 1928.

Changes in Classification.

Order No. 3,082, September 28, 1928, directs:

In *class 206, Special Receptacles and Packages* (Division 40), establish the following subclass and definition, the patents contained in this subclass having been taken for the most part from class 312, Supports, Cabinet Structures, subclass 78, Article-dispensing magazine type, Cylindrical article, Slender article, With ejector, Reciprocable ejector:

Receptacles
Pocket and personal use
Cigars and tobacco
41.4 With igniter.

41.4. RECEPTACLES, POCKET AND PERSONAL USE, CIGARS AND TOBACCO, WITH IGNITER. Devices coming under the definition of subclass 41 which include as a part of the organization an igniting element.

Note.—For receptacles of a similar kind not for pocket use see class 131, TOBACCO. For delivering devices generally see class 312, SUPPORTS, CABINET STRUCTURES, and for match boxes with igniters see this class (206), subclasses 33.5 and 34, if of pocket use, and class 312, SUPPORTS, CABINET STRUCTURES, subclasses 81, Article-dispensing magazine type, Cylindrical article, Slender article, With ejector, Reciprocable ejector, With automatic friction igniter; 82, Article-dispensing magazine type, Cylindrical article, Slender article, With ejector, With automatic friction igniter; 85, Article-dispensing magazine type, Cylindrical article, Slender article, With releaser; Peripheral pocket, With automatic friction igniter; and 86, Article-dispensing magazine type, Cylindrical article, Slender article, With igniter, if not of personal or pocket kind.

Patent Appeals in the Court of Appeals of the District of Columbia—No Call for November.

DEPARTMENT OF COMMERCE, U. S. PATENT OFFICE,
Washington, October 5, 1928.

The following letter received from the Clerk of the Court of Appeals of the District of Columbia is published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

OFFICE OF THE CLERK,
COURT OF APPEALS OF THE DISTRICT OF COLUMBIA,
Washington, October 4, 1928.

Commissioner of Patents, Patent Office, Washington, D. C.

Dear Sir: I am instructed by the court to advise you that there will be no call of cases on the patent appeals docket in November next.

Yours very truly,

HENRY W. HODGES,
Clerk.

Condition of Applications Under Examination at Close of Business October 5, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 112,980; Trade-Mark Division, 1,936. Oldest new case, Dec. 9, 1927; oldest amended, Dec. 6, 1927. The dates given are 1928 except where † indicates 1927.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Feb. 7	Feb. 13	1,546
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Jan. 25	Feb. 10	1,673
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Jan. 30	Feb. 4	1,468
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	†Dec. 17	†Dec. 17	1,613
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	†Dec. 28	†Dec. 28	1,561
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Jan. 6	Jan. 20	2,603
106	7. JARBOE, C. G., Optics; Photography	†Dec. 22	†Dec. 21	1,979
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Feb. 9	Mar. 16	1,671
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 15	Mar. 13	1,784
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Feb. 1	Feb. 1	1,846
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Mar. 2	Mar. 2	952
380	12. PIERCE, P. P., Machine Elements	Feb. 9	Jan. 28	2,012
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Jan. 27	Jan. 24	1,515
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Jan. 9	Jan. 7	1,237
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 6	Jan. 13	2,558
242*	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 23	Feb. 9	1,190
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Jan. 4	Feb. 10	1,506
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Jan. 3	Jan. 3	1,684
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Jan. 12	Jan. 24	1,918
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Apr. 6	Apr. 9	1,464
212	21. THURBUR, W. L., Textiles; Cloth Finishing	Jan. 3	Feb. 7	1,062
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	†Dec. 17	†Dec. 20	1,664
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	†Dec. 12	†Dec. 13	1,135
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Dec. 30	†Dec. 30	1,570
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 8	Mar. 29	1,721
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Jan. 25	Jan. 21	1,183
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning Laundry; Washing Apparatus.	Mar. 12	Mar. 14	1,490
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 20	Jan. 20	1,933
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Feb. 11	Feb. 1	1,178
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Jan. 11	Mar. 27	1,485
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Jan. 18	Jan. 21	2,163
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Jan. 7	Jan. 4	2,167
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Apr. 21	Apr. 24	2,005
304	34. SIMPSON, O. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	†Dec. 15	Jan. 7	1,422
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Apr. 2	Apr. 9	1,653
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Feb. 29	Feb. 20	2,078
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Dec. 14	Jan. 24	2,277
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Walls.	Mar. 3	Mar. 2	1,905
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Dec. 19	†Dec. 6	1,934
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Jan. 11	Feb. 24	2,751
126	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Feb. 3	Feb. 18	1,475
223*	42. CUTTING, H. O., Electric Signaling	†Dec. 22	Feb. 11	1,632
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Jan. 21	Mar. 7	2,227
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Jan. 13	Feb. 3	2,115
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	†Dec. 23	Jan. 3	2,483
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Jan. 11	Jan. 11	1,910
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Jan. 21	Feb. 13	2,103
212*	48. ROEPKE, O. B., Electricity, General Applications	Jan. 19	Jan. 28	1,586
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	†Dec. 15	Jan. 23	1,562
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Feb. 3	Feb. 3	2,634
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Jan. 17	Jan. 12	2,286
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Feb. 8	Feb. 8	2,177
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Feb. 23	Feb. 18	1,802
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Jan. 21	Jan. 21	2,424
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery {Designs	Jan. 10 Sept. 1	Jan. 11 Sept. 20	865 596
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	†Dec. 9	†Dec. 7	2,546
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Jan. 4	Jan. 23	1,202
270*	58. DOWELL, E. F., Abrading; Typewriting	†Dec. 16	†Dec. 17	1,455
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	†Dec. 19	†Dec. 19	2,572
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	†Dec. 16	†Dec. 28	1,663
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	†Dec. 17	†Dec. 24	2,236
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	†Dec. 22	Jan. 12	2,833
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade Marks {Labels and Prints	Sept. 8 Sept. 12	Sept. 26 Sept. 29	1,777 150

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

WAERN *v.* CARTER.

No. 2,036. Decided May 7, 1928.

INTERFERENCE—PRIORITY—ORIGINALITY.

Testimony *Held* to establish that the invention in issue originated with C. and that his disclosure to certain parties was in turn disclosed to W., who made the working drawings, and that any details which were supplied by W. were ancillary to C.'s main plan and originally belonged to him.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Geo. H. Mitchell and *Mr. Martin T. Fisher* for Waern.

Mr. D. L. Morris for Carter.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.:*

Carter is the senior party, his application having been filed on July 8, 1922. Waern's application was filed on March 23, 1923. While the applications were copending a patent was issued to Carter. It is conceded that the burden of proof rests upon Waern to sustain his case by a preponderance of the evidence.

The invention relates to pasting machines, designed to paste sheets of paper, particularly lithographs, on the opposite sides of sheets of cardboard, such two-sided pasting having the effect of preventing a warping of the cardboard when drying. Suitable pieces of cardboard are fed through pasting rolls which cover both sides with a coating of paste; they are then carried forward by rolls having their axes diagonal to the direction of travel, whereby the boards are kept moving against a lateral guide. The boards next come to a timing finger which automatically opens at the proper instant to admit them to large sheet-applying rolls which press the pasted sheets upon them in proper longitudinal registry or alignment. The timing finger is operated by gears moving in corelation with the sheet-feeding rolls. As the finger releases the card, the rolls grip it for the pressing operation.

The issue is in 19 counts, of which counts 9, 10 and 16 to 19 relate to the mechanism for effecting the lateral registry of the boards when brought to the timing finger; while counts 1 to 8 and 11 to 15 relate to the mechanism for effecting front and rear registry of the boards with the sheets carried by the applying rolls. The Examiner of Interferences awarded priority of invention as to the first class, to wit, counts 9, 10 and 16 to 19, to Carter, and no appeal was taken from that decision. Priority as to the other counts was awarded by the Examiner to Waern. The latter part of the Examiner's decision was appealed, and was reversed by the Examiners in Chief; and their decision was affirmed by the Commissioner of Patents. This appeal accordingly relates to counts 1 to 8, and 11 to 15.

It appears that the W. F. Powers Co. was engaged in the lithographic business, but their finishing or mounting was done in outside shops. In the year 1919 they established a company called the Litho Finishing Service, Inc., to take over the latter line of work, and Carter, who was an experienced man in the business, was employed to take entire charge of the new factory. A mounting machine was secured but it proved unsatisfactory, and the machine here involved was invented to take its place. It is claimed on the one hand that Carter conceived the invention, and that Waern was employed as only a draftsman to produce the working drawings of Carter's invention. On the other hand it is claimed that the invention was first conceived by Waern. Both parties rely upon the same reduction to practice, and the question accordingly is one of originality.

The opinions written by the tribunals of the Patent Office fully present the evidence according to the opposing standpoints, and we do not think it necessary here to enter into a detailed discussion of the testimony. The Examiners in Chief conclude their opinion with the following statement, to wit:

> To sum up the case it is our opinion that Carter conceived the invention in issue in the counts under consideration, disclosed it to Powers, Ingham, and Bostwick and possibly others; that Ingham disclosed the main plan with sufficient clearness to Sawtelle and Waern to enable Waern, a skilled machine designer, to make the working drawings and that such details as were supplied by Waern were ancillary to Carter's main plan and rightfully belonged to him. Waern was clearly an employee of the W. F. Powers Co., assignees of Carter, and was paid for his work in designing the machine and making the working drawings.

This statement is quoted and adopted by the Commissioner of Patents in his opinion. Upon a consideration of the entire record we are convinced that the conclusion thus stated is correct.

The decision of the Commissioner of Patents is therefore affirmed.

Court of Appeals of the District of Columbia.

IN RE DELI.

No. 2,059. Decided June 4, 1928.

PATENTABILITY—PENCIL.

Claims for a pencil construction *Held* patentable since neither of the references discloses a plunger having a flanged head and provided with lateral displaced projections corresponding to threads.

APPEAL from Patent Office. Reversed in part.

Mr. J. H. Milans and *Mr. C. T. Milans* for Deli.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of the Patent Office rejecting the claims in appellant's application for a patent.

The invention relates to a mechanical pencil having a peculiar plunger construction. There is a needless multiplicity of claims in the application, as, out of the seven, claims 1, 5 and 7, here reproduced, sufficiently define the invention:

1. In a pencil the combination of a body, and lead-advancing mechanism including a plunger, said plunger having side projections that act as threads, said projections being formed of metal that has been displaced laterally from the body of the plunger.

5. A plunger for use in mechanical pencils, said plunger consisting of a length of wire having a plurality of lateral projections corresponding to threads, the metal in the lateral projections being composed of a portion of the metal of the body of the plunger that has been displaced laterally.

7. A lead propelling plunger composed of a length of wire, one end of which is flattened and the opposite end of which is provided with a plurality of separate, non-continuous lateral projections composed of metal displaced from the body of the wire by locally reducing the cross sectional area thereof.

In his specification appellant directs attention to the importance, in the commercial manufacture of mechanical pencils of the type in which a threaded plunger is utilized, of having the coacting threads on the tube and plunger sufficiently firm and rugged in construction as to withstand the hard usage to which such pencils usually are subjected. The applicant then says that in his invention the lead tube with which the plunger cooperates is provided with helical grooves corresponding to threads, and that—

the plunger for co-operation therewith consists of a wire having its head flattened, the threads for cooperation with the helical groove in the tube being formed by one stroke of a die in which the metal is flattened at diametrically opposite points and caused to flow outside of the normal contour of the wire. This results in the formation of lateral projections from the wire.

Appellant contends that he has thus produced a simpler and more efficient construction than is to be found in the prior art; that his pencil is easily disassembled and new lead installed.

The principal references cited by the Patent Office tribunals are the patents to Bergen and Most (No. 1,319,039, October 21, 1919; No. 1,325,570, December 23, 1919). In the Bergen patent there is no flattened head or end of the plunger, nor is it provided with laterally-displaced projections. The plunger of the Most patent has no flattened head, nor has it laterally-displaced projections, unless the two bends therein can be so considered; and, in our view, it would be a strained construction to rule that such bends constitute—

lateral projections corresponding to threads, the metal in the lateral projections being composed of a portion of the metal of the body of the plunger that has been displaced laterally.

It thus appears that the claims of the issue avoid the cited references. In other words, appellant has produced a pencil with novel elements and characteristics. The claims are carefully limited in scope so as to cover no more than what has been accomplished by him. The device is practical, marks an advance in the art, and we think its production involved the exercise of inventive faculties.

Decision reversed as to claims 1, 5 and 7. Affirmed as to other claims.

Reversed as to claims 1, 5 and 7.

Affirmed as to other claims.

Court of Appeals of the District of Columbia.

GROSSMAN AND LOWE *v.* GAMBLE.

No. 2,061. Decided June 4, 1928.

INTERFERENCE—PRIORITY.

Evidence reviewed and *Held* that priority was properly awarded to the party Gamble.

APPEAL from Patent Office. Affirmed.

Mr. Wm. G. Henderson for Grossman et al.

Mr. H. J. Lucke for Gamble.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.*:

Appeal from a decision of the Patent Office in an interference proceeding awarding priority of invention to the party, Gamble.

The first two of the three counts of interference relate to a collapsible bag, used principally in carrying ladies' hats. The third count relates to a bag "of the character described," with—

a handle comprising a strip secured at one end in the seam at one side of the bag and a tab secured to the free edge of the closure flap, and means on the free ends of said strip and tab for detachably securing them together.

The party, Gamble, was the first in the field, and all three tribunals, after a careful review of the evidence, awarded her priority as to counts 1 and 2. The Examiner of Interferences, being of the view that Mrs. Gamble was without sufficient corroboration as to the time when a bag embodying the elements in the third count was made, awarded that count to appellants. The Examiners in Chief and the Commissioner held that there was such corroboration, and awarded the count accordingly.

A review of the evidence convinces us of the correctness of the conclusion finally reached, and we therefore, for the reasons more fully stated in the opinions of the Board and the Commissioner, affirm the decision.

Affirmed.

Court of Appeals of the District of Columbia.

THE SHERWIN-WILLIAMS COMPANY *v.* THE STOCKTON PAINT COMPANY.

No. 2,064. Decided June 4, 1928.

TRADE-MARKS—SIMILARITY.

A mark consisting of colored horizontal bands with the words "Old Mission" on one and associated with a representation of an old mission *Held* not deceptively similar to a mark consisting of a plurality of horizontal bands, the representation of a globe over which paint is being poured, the initials "SWP," and the words "Cover The Earth," since the dominant features of one are the words "Old Mission" and the dominant features of the other the representation of the globe and its accessories.

APPEAL from Patent Office. Affirmed.

Mr. T. H. Fay for The Sherwin-Williams Company.

Mr. C. E. Riordon and *Mr. C. Russell Riordon* for The Stockton Paint Company.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.*:

This is an appeal from a Patent Office decision dismissing appellant's opposition to the registration

by appellee, as a trade-mark for paints, of colored, horizontal bands, with the words "Old Mission" prominently shown in the upper band, and an equally-prominent pictorial representation of an old mission in approximately the center of the mark.

Appellant's mark comprises a plurality of varicolored, horizontal bands, and a pictorial representation of a globe, and a paint container from which paint is being poured upon the globe, the paint container bearing the initials "SWP" (Sherwin-Williams Paint), and on the globe are the words "Cover The Earth."

We agree with the Patent Office that the dominant characteristics of appellant's mark are the representation of the globe and its accessories, while the dominant characteristics of appellee's mark are the words "Old Mission" and the pictorial representation of an old mission, and, hence, that there is no likelihood of confusion in the concurrent use of the two marks.

The decision is affirmed.

Affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,046,736, B. A. Clayton, Operating chair or table, D. C., S. D. Iowa (Davenport), Doc. E 4100, *B. J. Palmer* v. *Champion Table Co. et al.*

1,088,476, W. E. Stiles, Operating table, D. C., S. D. Iowa (Davenport), Doc. E 4099, *M. H. Palmer* v. *Champion Table Co. et al.* Dismissed Aug. 9, 1928.

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Aug. 9, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–21–J, *Electrical Products Corp.* v. *Neon Light Corp. of America.*

1,263,707, G. Rudorf, Process of making exchange bodies; 1,804,206, same, Process of making base-exchanging bodies; 1,343,927, C. Massatsch, Manufacture of purifying material; 1,348,977, G. L. Borrowman, Water-softening compound and method of producing same; 1,455,363, A. C. Spencer, Process of purifying water, filed June 22, 1928, D. C., N. D. Ill., E. Div., Doc. 8409, *The Permutit Co.* v. *International Filter Co.*

1,299,232, H. Rosenberg, Art of fastening sheets together; 1,411,184, same, Sheet-metal structure and fastening therefor; 1,465,148, same, Screw, filed June 11, 1928, D. C., N. D. Ill., E. Div., Doc. 8355, *H. Rosenberg et al.* v. *Reed & Prince Mfg. Co. et al.*

1,304,206. (See 1,263,707.)

1,307,733 (*a*), A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed Aug. 11, 1928, D. C., S. D. N. Y., Doc. E 46/139, *The Bassick Mfg. Co.* v. *J. Blumenkopf.*

1,307,733 (*b*), A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, filed July 27, 1928, D. C., E. D. N. Y., Doc. 3775, *The Bassick Mfg. Co.* v. *Farrell Auto Supply Co., Inc.*

1,307,734. (See 1,307,733 (*a*) and (*b*).)

1,331,272, 1,433,901, S. Marcus, Artificial eyes for dolls, etc., filed July 11, 1928, D. C., E. D. N. Y., Doc. 3759, *Markon Mfg. Co., Inc.*, v. *Grubman Engineering & Mfg. Co., Inc.*

1,343,927. (See 1,263,707.)

1,348,977. (See 1,263,707.)

1,411,184. (See 1,299,232.)

1,426,143, E. J. Bliss, Device for measuring feet, appeal filed Aug. 14, 1928, C. C. A., 1st Cir., Doc. 2274, *Clarke-Emerson Mfg. Co.* v. *Regal Shoe Co.*

1,433,901. (See 1,331,272.)

1,455,363. (See 1,263,707.)

1,465,148. (See 1,299,232.)

1,475,980. (See 1,307,733 (*b*).)

1,496,537, B. Hirschhorn, Tea cartridge; 1,497,276, same, Method of manufacturing tea cartridges; Re. 16,897, T. Allatt, Bag-closing machine, filed Aug. 9, 1928, D. C., S. D. N. Y., Doc. E 46/135, *Millie Patent Holding Co., Inc.*, v. *J. Tetley & Co. et al.*

1,497,276. (See 1,496,537.)

1,504,216, 1,504,217, 1,565,142, C. N. Coryell, Lip-stick container, filed Aug. 9, 1928, D. C. Conn. (New Haven), Doc. 1970, *Scovill Mfg. Co.* v. *Bridgeport Metal Goods Mfg. Co.*

1,504,217. (See 1,504,216.)

1,523,964, H. Horig, Signaling instrument; 1,602,114, Kazenmaier & Haehnle, Signaling instrument for power vehicle, filed July 19, 1928, D. C., E. D. N. Y., Doc. 3770, *General Motors Corp. et al.* v. *E. A. Laboratories, Inc.*

1,565,142. (See 1,504,216.)

1,602,114. (See 1,523,964.)

1,659,496, Oishei & Hucber, Windshield wiper, filed Aug. 13, 1928, D. C. R. I. (Providence), Doc. 308 and 304, *Trico Products Corp.* v. *Rico Mfg. Co.*

1,660,801, 1,660,802, W. L. Martin, Drier, filed July 11, 1928, D. C., N. D. Ohio, E. Div., Doc. 2618, *The Martin Bros. Electric Co.* v. *Wonder Ironer Mfg. Corp. et al.*

1,660,802. (See 1,660,801.)

Des. 75,107, Des. 75,110, Des. 75,111, Des. 75,114, Des. 75,115, Des. 75,116, J. Grien, Lamp base, filed June 29, 1928, D. C., N. D. Ill., E. Div., Doc. 8416, *Hamilton-Ross Factories, Inc.*, v. *Ideal Art Metal Co.* Doc. 8417 *Hamilton-Ross Factories, Inc.*, v. *Liberty Lamp Mfg. Co.* Doc. 8418, *Hamilton-Ross Factories, Inc.*, v. *Wellington Stores Co.* Doc. 8419, *Hamilton-Ross Factories, Inc.*, v. *Vogue Lamp & Shade Co.* Doc. 8420, *Hamilton-Ross Factories, Inc.*, v. *I. Teger et al.* Doc. 8421, *Hamilton-Ross Factories, Inc.*, v. *I. Melamed et al.*

Des. 75,110. (See Des. 75,107.)

Des. 75,111. (See Des. 75,107.)

Des. 75,114. (See Des. 75,107.)

Des. 75,115. (See Des. 75,107.)

Des. 75,116. (See Des. 75,107.)

Des. 75,565, Des. 75,566, Des. 75,567, A. B. Kanne, Lamp base, filed Aug. 8, 1928, D. C., S. D. N. Y., Doc. E 46/132, *Kanne & Bessant, Inc.*, v. *E. Laudell et al* (*Art Metal Spinning Co.*)

Des. 75,566. (See Des. 75,565.)

Des. 75,567. (See Des. 75,565.)

Re. 15,582, R. C. Russell, Index, filed Aug. 6, 1928, D. C. Mass., Doc. E 3005, *R. C. Russell* v. *The Massachusetts Bonding & Insurance Co., Inc.*

Re. 15,606, A. Bowser, Liquid-dispensing apparatus, D. C., N. D. Ind. (Fort Wayne), Doc. E 51, *E. M. Dean et al.* v. *Tokheim Oil Tank & Pump Co. et al.* Dismissed without prejudice June 7, 1928. Doc. E 63, *E. M. Dean et al.* v. *Tokheim Oil Tank & Pump Co. et al.*

Re. 16,050, M. F. Bernson, Jack, filed Aug. 8, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2362, *Walker Mfg. Co.* v. *Ajax Auto Parts Co.*

Re. 16,897. (See 1,496,537.)

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Design Pat. 65,187, C. J. Howel, Chicago, Ill., Design for a bottle. Decided July 31, 1928.

Pat. 1,512,294, E. H. Marcy, Hypodermic syringe. decided September 25, 1928, claims 1 and 2.

Pat. 1,516,757, H. M. Weber, Fuel mixture containing oxidized petroleum products, decided August 10, 1928, claims 1, 2, 3, 7, and 8.

Pat. 1,572,283, R. G. Griswold, Gas calorimeter, decided September 28, 1928, claims 1, 5, and 9.

Pat. 1,584,230, J. C. Knight, Perforating machine, decided September 6, 1928, claims 3, 4, 5, 6, 7, and 11.

Pat. 1,597,567, Baker and O'Neill, Boiler, decided August 3, 1928, claims 1, 2, and 3.

Pat. 1,605,299, Sweatt and Denison, Electrically-operated burner-controlling apparatus, decided September 25, 1928, claim 6.

Pat. 1,620,005, V. T. Brigham, Control for subvacuous condition of periodically-fired boilers, decided August 28, 1928, claims 1, 4, 5, 7, and 11.

Pat. 1,623,051, F. Fraser, Multiple-sheet-flowing apparatus, decided August 10, 1928, claims 4 and 17.

Pat. 1,625,212, L. L. Karas, Coil and support for same, decided September 4, 1928, claims 1 and 2.

Pat. 1,643,379, W. A. Hutchinson, Wheel structure, decided August 27, 1928, claim 1.

Final decision in interference has been rendered against the following trade-mark:

T. M. 224,482, Tubes containing artists' water colors and artists' paints and oils. Theodore Daniels, New York, N. Y. Registered March 1, 1927. Decided September 25, 1928.

Disclaimer.

1,562,119.—*Lewis C. Myers* and *George F. Handley*, of Freeport and Glendale, N. Y. TYPEWRITING MACHINE. Patent dated November 17, 1925. Disclaimer filed September 6, 1928, by the assignee, *Royal Typewriter Company, Inc.*

Hereby disclaim the following claims, to wit:

"1. In a typewriting machine embodying a main frame, a carriage, and pivoted type bars, the combination of a shift frame supporting said carriage for case shift movement, and means for mounting said shift frame for bodily adjustment as a unit relative to the main frame independent of the case shift movement to obtain proper relation between the carriage and the type bars.

"2. In a typewriting machine embodying a main frame, a carriage, and pivoted type bars, the combination of a shift frame supporting said carriage for case shift movement, and means for adjusting said shift frame bodily as a unit relative to the main frame independent of the case shift movement to obtain proper relation between the carriage and the type bars.

"3. In a typewriting machine embodying a main frame, a carriage, and type-bars having a limited movement to printing position, the combination of a shift frame supporting said carriage, and means for mounting said shift frame for bodily adjustment as a unit relative to the main frame and at right angles to the type bar at the end of its movement to printing position.

"4. In a typewriting machine embodying a main frame, a carriage, and type bars having a limited movement to printing position, the combination of a shift frame supporting said carriage, and means for adjusting said shift frame bodily as a unit relative to the main frame and at right angles to the type bar at the end of its movement to printing position.

"5. In a typewriting machine embodying a main frame and a carriage, the combination of a shift frame supporting said carriage for case shift movement, means for mounting said shift frame for adjustment as a unit relative to the main frame independent of the case shift movement, and means for retaining the shift frame in adjusted position.

"6. In a typewriting machine embodying a main frame and a carriage, the combination of a shift frame supporting said carriage for case shift movement, means for adjusting said shaft frame as a unit relative to the main frame independent of the case shift movement, and means for retaining the shift frame in adjusted position.

"7. In a typewriting machine embodying a main frame, a carriage, and type bars having a limited movement to printing position, the combination of a shift frame supporting said carriage, means for mounting said shift frame for adjustment as a unit relative to the main frame and at right angles to the type bar at the end of its movement to printing position, and means for retaining the shift frame in adjusted position.

"8. In a typewriting machine embodying a main frame, a carriage, and type bars having a limited movement to printing position, the combination of a shift frame supporting said carriage, means for adjusting said shift frame as a unit relative to the main frame and at right angles to the type bar at the end of its movement to printing position, and means for retaining the shift frame in adjusted position.

"9. In a typewriting machine embodying a main frame and a carriage, the combination of a pair of plates adjustably carried by the main frame, and a shift frame entirely carried by said plates and movable independently thereof.

"10. In a typewriting machine embodying a main frame and a carriage, the combination of a pair of plates slidably carried by the main frame, a shift frame entirely carried by said plates and movable independently thereof, and means for giving said plates a sliding movement relative to the main frame for adjusting the shift frame.

"11. In a typewriting machine embodying a main frame and a carriage, the combination of a pair of plates slidably carried by the main frame, a shift frame entirely carried by said plates and movable independently thereof, means for giving said plates a sliding movement relative to the main frame, and means for retaining the parts in adjusted position.

"12. In a typewriting machine embodying a main frame and a carriage, the combination of a pair of plates adjustably carried by the main frame, a shift frame comprising a rock shaft and parallel link motion, and means for supporting said shift frame as a unit on the plates.

"13. In a typewriting machine embodying a main frame and a carriage, the combination of a pair of plates adjustably carried by the main frame, a shift frame comprising a rock shaft and parallel link motion, means for supporting said shift frame as a unit on the plates, and means for moving said plates to adjust the position of the shift frame.

"14. In a typewriting machine embodying a main frame, a carriage, and type bars having a limited movement to printing position, the combination of a shift frame, a pair of members entirely supporting the shift frame, and means for mounting said members for slidable movement relative to the main frame and at right angles to the type bar at the end of its movement to printing position.

"15. In a typewriting machine embodying a main frame, a carriage, and type bars having a limited movement to printing position, the combination of a shift frame, a pair of members entirely supporting the shift frame, and means for sliding said members relative to the main frame and at right angles to the type bar at the end of its movement to printing position.

"16. In a typewriting machine embodying a main frame, a carriage, and type bars having a limited movement to printing position, the combination of a shift frame, a pair of members entirely supporting the shift frame, means for sliding said members relative to the main frame and at right angles to the type bar at the end of its movement to printing position, and means for retaining the parts in adjusted position."

"21. In a typewriting machine embodying type bars and an abutment for limiting the movement of the type bars to printing position, the combination of a carriage having case shift movement, supports therefor, a platen supported by said carriage and means for mounting said supports for adjustment as a unit in a direct line independent of the case shift movement to afford full impressions of the type bars on the platen.

"22. In a typewriting machine embodying type bars and an abutment for limiting the movement of the type bars to printing position, the combination of a carriage having case shift movement, supports therefor, a platen supported by said carriage, and means for adjusting said supports as a unit in a direct line independent of the case shift movement to afford full impressions of the type bars on the platen.

"25. In a typewriting machine, the combination of swinging type bars, a platen mounted for case shift movement, supports therefor, and means for mounting said supports on the main frame of the machine for adjustment as a unit in a direct line independent of the case shift movement to afford full impressions of the type bars.

"26. In a typewriting machine, the combination of swinging type bars, a platen mounted for case shift movement, supports therefor, and means for adjusting said supports on the main frame of the machine as a unit in a direct line independent of the case shift movement to afford full impressions of the type bars.

"27. In a typewriting machine, the combination of swinging type bars, a platen mounted for case shift movement, supports therefor, means for adjusting said supports on the main frame of the machine as a unit in a direct line independent of the case shift movement to afford full impressions of the type bars, and means for holding the supports in adjusted position."

Adjudicated Patents.

(D. C. and C. C. A. Ohio.) The Kerner patent, No. 1,108,164, for garbage and refuse incinerator, claims 1, 2, 3, 5, and 6 *Held* valid and infringed. *Kerner Incinerator Co. v. Townsend Estates*, 27 F. (2d) 599 and 606.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 16, 1928.

[VOL. 375. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 266,770. VELDOWN COMPANY, INC., New York. N. Y. Filed May 21, 1928.

VEL-VO-PAK

For Wadding, Stuffing or Packing Materials Composed of Paper and Card Board and Prepared Wood Pulp for Packing Containers.

Claims use since October, 1927.

Ser. No. 268,483. CLOVER MFG. CO., Norwalk, Conn. Filed June 22, 1928.

SIL-CARB

For Silicon Carbide.

Claims use since January, 1927.

Ser. No. 269,517. CLARENCE SHERMAN DODGE, also doing business as Dodge Plant Farms, Raymondville, Tex. Filed July 13, 1928.

FAMOUS

For Growing Plants, for Propagation Purposes—Namely, Onion Plants and Cabbage Plants.

Claims use since December, 1917.

Ser. No. 269,721. EASTERN COAL COMPANY, Chicago, Ill. Filed July 17, 1928.



For Coal.

Claims use since February, 1916.

Ser. No. 270,118. EASTERN COAL COMPANY, Chicago, Ill. Filed July 25, 1928.



For Coal.

Claims use since January, 1922.

Ser. No. 270,447. SOUTHERN COAL COMPANY, INCORPORATED, Memphis, Tenn. Filed Aug. 1, 1928.



The use of the words "Muhlenberg County's, Best," and "Coal" is disclaimed except in connection with the mark as shown.

For Coal.

Claims use since Sept. 15, 1927.

Ser. No. 270,803. RUDY-PATRICK SEED COMPANY, Kansas City, Mo. Filed Aug. 9, 1928.

DELTA 18



The drawing is lined to indicate shading.
For Alfalfa Seed.
Claims use since 1926.

Ser. No. 270,990. CLARKSVILLE COAL COMPANY, Clarksville, Ark. Filed Aug. 14, 1928.

SPAD-AR-K

For Coal.
Claims use since June, 1927.

Ser. No. 271,071. WM. H. MCMAHEN COMPANY, Philadelphia, Pa. Filed Aug. 15, 1928.



For Feathers in Bulk.
Claims use since August, 1889.

Ser. No. 271,077. JOHN HILDING OSTBERG, doing business as Consolidated Seed Co. (Not Inc.), Chicago, Ill. Filed Aug. 15, 1928.

AMERICAN PARK

For Lawn-Grass Seed.
Claims use since about May 1, 1924.

CLASS 2.

Receptacles.

Ser. No. 249,146. AMERICAN STEEL PIPE & TANK COMPANY, Los Angeles, Calif. Filed May 18, 1927.



No claim is made to the lining, which indicates blue and black on the drawing.
For Metal Underground Storage Tanks Made of Black Metal Plate.
Claims use since May 5, 1925.

Ser. No. 267,514. SCHULER-O'CONNELL GRAIN CO., Stockton, Calif. Filed June 5, 1928.

DELTA



For Grain Bags.
Claims use since May 26, 1928.

Ser. No. 270,945. TAYLOR BROTHERS' MANUFACTURING CORPORATION, Elkhart, Ind. Filed Aug. 13, 1928.

CHAMPION

For Tool Boxes.
Claims use since June 1, 1928.

CLASS 4.

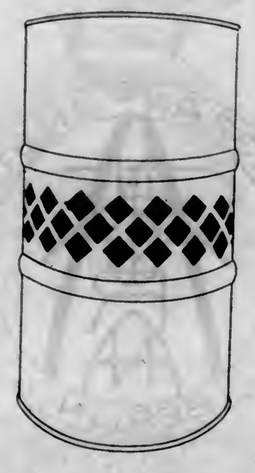
Abrasive, Detergent, and Polishing Materials.

Ser. No. 255,154. AMERICAN SHOE POLISH CO., Chicago, Ill. Filed Sept. 24, 1927.



No claim is made to the word "Brand" apart from the mark shown in the accompanying drawing.
For Paste for Cleaning Automobiles and the Like.
Claims use since May, 1927.

Ser. No. 262,084. HILLYARD CHEMICAL COMPANY, St. Joseph, Mo. Filed Feb. 23, 1928.



No claim is made to the form of container shown in the drawing.
For Furniture-Cleaning Compound With Incidental Polishing Properties.
Claims use since Oct. 5, 1927.

Ser. No. 262,680. L. M. SHEETZ, doing business as Washum Products Co., Billings, Mont. Filed Mar. 6, 1928.

Washum

For Hand Cleaner, Being a Compound for the Removal of Dirt, Paint, Stains, Grease, Etc., from the Hands.
Claims use since May 1, 1926.

Ser. No. 269,688. THE PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed July 16, 1928.



No exclusive claim is made to the wording appearing on the drawing with the exception of the words "Crystal Blanco" and "Peets" apart from the mark as shown.
For Soap.
Claims use since Apr. 6, 1921.

Ser. No. 271,479. PAUL EDWARDS, doing business as Fan Tan Laboratories, Chicago, Ill. Filed Aug. 24, 1928.

FAN TAN

For Soap.
Claims use since May 1, 1928.

Ser. No. 271,854. JERMAN-GIESSNER CO., Chicago, Ill. Filed Sept. 1, 1928.

WATERSOL

For Powdered Preparation Soluble in Water to Impart Softening and Cleansing Properties to the Water for Washing Dishes, Clothes, Painted Walls, Woodwork, Bottles, Pots, Pans, Kitchen Ware, and Other Household Articles.
Claims use since Aug. 27, 1928.

Ser. No. 271,951. GEORGE E. TYLER, doing business as The Cleaning Products Company, Denver, Colo. Filed Sept. 5, 1928.

CAN-O-CLEAN

For Hand Soap.
Claims use since Apr. 25, 1928.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 257,873. THOMAS SAMUEL INGHAM, Carnarvon, North Wales. Filed Nov. 21, 1927.

VINCULIN

For Medicinal Preparation for Diabetes.
Claims use since on or about September, 1924.

Ser. No. 259,826. SUPERIOR CHEMICAL COMPANY, INC., Chicago, Ill. Filed Jan. 7, 1928.

Elanco

For Solutions, Compounds, and Elements Thereof for the Treatment of Milk and Milk Products to Purify and Sterilize the Same, to Remove Off Flavors and Odors Therefrom, and Reduce Acidity Thereof.
Claims use since Dec. 29, 1927.

Ser. No. 262,300. FIRM DEUTSCHE MILCHWERKE A.-G., Zwingenberg, Germany. Filed Feb. 27, 1928.

Fissan

For Medicated Plasters, Medicated Surgical Bandages; Medicated Dressings for Burns, Cuts, and Wounds; Preparations for Exterminating Animal and Plant Life, Insecticides, Preparations for Preserving Foods, Skin Lotions, Toilet Cream, Toilet Powder, Salve Base, Deodorizers, and Ethereal Oils and Perfumes.
Claims use since Nov. 10, 1925.

Ser. No. 264,584. HARRIE D. HUSSEY, doing business as Dayton Liniment Company, Dayton, Ohio. Filed Apr. 9, 1928.

UNCLE BEN'S

For Liniment to be Used for Affectations of the Skin and Muscles or the Like and as an Antiseptic.
Claims use since Sept. 1, 1924.

Ser. No. 265,121. ST. LOUIS SULPHUR & CHEMICAL CO., St. Louis, Mo. Filed Apr. 19, 1928.

PIONEER

For Sulphur.
Claims use since Oct. 15, 1927.

Ser. No. 265,279. DR. WALDEMAR LIMMER, Berlin, Germany. Filed Apr. 23, 1928.

ANTAGRAN-INSTITUT BERLIN

No claim is made to the word "Berlin" apart from the mark shown.
For Medicines and Pharmaceutical Chemicals for External Application in the Treatment of Gout, Rheumatism, Lumbago, Ischiagra, and Neuralgia.
Claims use since 1915.

Ser. No. 265,494. PARK & TILFORD, New York, N. Y. Filed Apr. 27, 1928.



No claim of exclusive right to the use of the words "Before" and "After" being made apart from the mark as shown in the accompanying drawing.
For preparation for Taking the Color Out of All Dyed Materials.
Claims use since February, 1928.

Ser. No. 266,461. GLOBE LABORATORIES, Fort Worth, Tex. Filed May 16, 1928.

BLUE RIBBON



The cross lining appearing on the drawing indicates shading only.
For Fly Spray.
Claims use since Apr. 10, 1928.

Ser. No. 266,547. THE GEORGE W. LUFT COMPANY, INC., Long Island City, N. Y. Filed May 17, 1928.

TANGEE

For Lip Stick, Creme Rouge, Compact Rouge, Cleansing Cream, Day Cream, Night Cream, Massage Cream, Face Lotion, Astringent, Face Powder, Powder Compacts; Cosmetics for Lashes, Brows, and Hair; Hair Pencils, Nail Polish, Perfumes, and Toilet Waters.
Claims use since about December, 1920.

Ser. No. 266,758. SÄCHSISCHES SERUMWERK A. G., Dresden, Germany. Filed May 21, 1928.

Moloid

For Drug for Sick Headaches, Exsudative Diathesis, and Cardiac Asthma.
Claims use since January, 1926.

Ser. No. 267,656. HEALTH PRODUCTS CORPORATION, Newark, N. J. Filed June 7, 1928.

Feen-a-mint

For Laxative Chewing Tablets.
Claims use since December, 1922.

Ser. No. 268,641. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed June 25, 1928.



No claim is made to the representation of a carton per se, and no claim is made to the printed matter other than the words "Mistol" and "Stanco Incorporated." Applicant is the owner of registered Trade-Mark No. 153,389.
For Nose and Throat Spray.
Claims use since May 11, 1928.

Ser. No. 268,642. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed June 25, 1928.

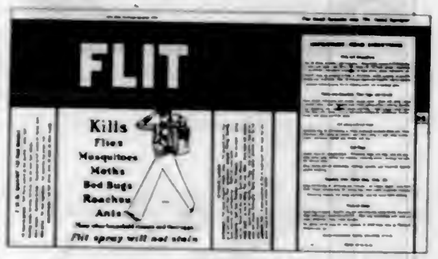


No claim is made to the printed matter other than the words "Mistol" and "Stanco Incorporated."

For Nose and Throat Spray.

Claims use since May 11, 1928.

Ser. No. 268,643. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed June 25, 1928.



No claim is made to the printed matter appearing on the drawing with the exception of the words "Flit" and "Stanco Incorporated."

For Insecticides, Deodorants, and Disinfectants.

Claims use since May 25, 1928.

Ser. No. 269,261. SCHERING-KAHLBAUM A. G., Berlin, Germany. Filed July 7, 1928.

MERITOL

For Chemical Product for the Destruction of Parasites.

Claims use since about January, 1927.

Ser. No. 269,262. SCHERING-KAHLBAUM A. G., Berlin, Germany. Filed July 7, 1928.

Vasano

For Medicine for the Treatment of Seasickness.

Claims use since about May, 1927.

Ser. No. 269,264. SCHERING-KAHLBAUM A. G., Berlin, Germany. Filed July 7, 1928.

Solganal

For Medicine for the Treatment of Tuberculosis, Leprosy, and Streptococcal Infections.

Claims use since about May, 1926.

Ser. No. 269,574. BUR-MOODA REMEDY COMPANY, Kansas City, Kans. Filed July 14, 1928.

Bur-Mooda



The words "Trade-Mark" are disclaimed apart from the mark shown in the drawing.

For Tonic in Tablet Form Intended As an Aid to Weakened and Irritable Conditions of the Nervous System of Both Men and Women.

Claims use since early in December, 1927.

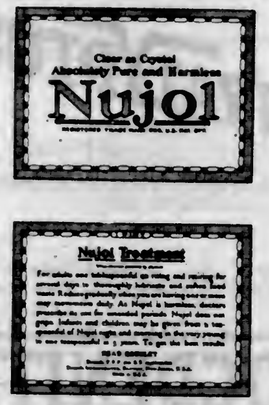
Ser. No. 269,680. THOMAS J. B. MCREDMOND, doing business as Nallay Products Company, Los Angeles, Calif. Filed July 16, 1928.

Rid-All

For Preparation for Exterminating Moths and Insects.

Claims use since Aug. 11, 1915.

Ser. No. 269,921. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed July 20, 1928.

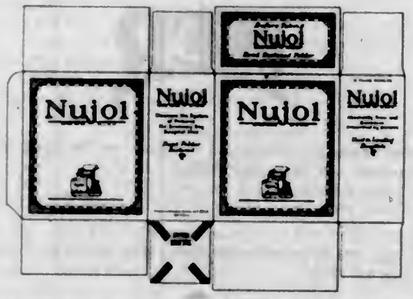


The drawing is lined to show shading only. The mark shown on the drawing constitutes the obverse and reverse sides of the label. No claim is made to the printed matter appearing upon the label other than the words "Nujol" and "Stanco Incorporated."

For Mineral Oil for Chemical, Medicinal, and Pharmaceutical Purposes.

Claims use since May 11, 1928.

Ser. No. 269,922. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed July 20, 1928.



The representation of the containers shown on the carton are disclaimed in connection with the mark as a whole. The drawing is lined for the purpose of shading only. No claim is made to a carton per se or to the printed matter other than the words "Nujol" and "Stanco Incorporated."

For Mineral Oil for Chemical, Medicinal, and Pharmaceutical Purposes.

Claims use since May 11, 1928.

Ser. No. 270,297. PAT V. JAMES, Memphis, Tenn. Filed July 28, 1928.

Vicine

For Medicinal Preparation for Human Consumption for the Elimination of Worms, for the Treatment of Diarrhœa Colic, Indigestion, Blood Tonic and General Tonic, Ivy and Oak Poisoning; a Medicinal Preparation for Treating Minor Cuts, Burns, Scalds, Abrasions, and Bruises in General.

Claims use since June 28, 1926.

Ser. No. 270,394. MORRIS POTASHNIKOFF, doing business as Potash Pharmaproducts Company, Brooklyn, N. Y. Filed July 31, 1928.

TOOTHACHE—GON

The word "Toothache" is disclaimed apart from the mark as shown in the drawing.

For Pharmaceutical Preparation Compounded as a Liquid and Used in the Treatment of Toothache.

Claims use since 1916.

Ser. No. 270,395. MORRIS POTASHNIKOFF, doing business as Potash Pharmaproducts Company, Brooklyn, N. Y. Filed July 31, 1928.

BURN—GON

The word "Burn" is disclaimed apart from the mark as shown in the drawing.

For Pharmaceutical Preparation Compounded as a Salve and Used in the Treatment of Burns.

Claims use since 1916.

Ser. No. 270,538. DAMRELL CHEMICAL COMPANY, Modesto, Calif. Filed Aug. 3, 1928.



For Poisons for Rats, Mice, and Cockroaches.

Claims use since July 1, 1928.

Ser. No. 270,587. THE GLAZO COMPANY, Cincinnati, Ohio. Filed Aug. 4, 1928.

GALO

For Nail Enamel, Nail-Polish Remover—to wit, a Solvent for Collodian; Cuticle Oil, and Cuticle Cream.

Claims use since early in December, 1927.

Ser. No. 270,588. THE GLAZO COMPANY, Cincinnati, Ohio. Filed Aug. 4, 1928.



The color lining shown on the drawing is used for shading purposes only.

For Nail Enamel, Cuticle Cream, Cuticle Oil, and Liquid Polish Remover.

Claims use since January, 1928.

Ser. No. 270,778. OIL-O-RUST-O COMPANY, Albany, N. Y. Filed Aug. 8, 1928.

OIL-O-RUST

The representation of the goods is disclaimed apart from the other features of the mark shown on the drawings. The words "Rust Releaser, Squeak Eliminator, Lubricator" are disclaimed apart from the mark as shown.

For Rust Remover and Preventative in Liquid Form.

Claims use since July 1, 1928.

Ser. No. 270,875. HURRELL-DUGGER COMPANY, Indianapolis, Ind. Filed Aug. 11, 1928.

T.S.F.

The drawing is not lined to indicate the color blue, but for shading.

For Insecticide or Preparation to Kill Lice.

Claims use since February, 1924.

Ser. No. 270,968. JACK LENOX, doing business as Hargrove's Magic Hair Restorer Co., De Kalb, Tex. Filed Aug. 13, 1928.

Hargrove'S
MAGIC
HAIR
RESTORER

The words "Hair Restorer" are disclaimed apart from the other features of the mark appearing on the drawing.

For Hair Tonic for Gray and Faded Hair.

Claims use since Aug. 1, 1927.

Ser. No. 271,005. NYAL COMPANY, Detroit, Mich. Filed Aug. 14, 1928.

NYALYPTUS

For Compound for the Treatment of Coughs.

Claims use since June 24, 1927.

Ser. No. 271,026. HUGO FRIEDMAN, doing business as The Hu-Friedy Mfg. Co., Chicago, Ill. Filed Aug. 15, 1928.

"OGDENITE"

For Medical Preparation Used for Elimination of Pain after Extraction of Teeth.

Claims use since about Sept. 1, 1926.

Ser. No. 271,223. JOHN WILHELM, doing busines as Mer Cough Syrup Co, Chicago, Ill. Filed Aug. 17, 1928.

MER

For Medicinal Compound Designed to be Used in the Treatment of Coughs and Colds.

Claims use since about January, 1927.

Ser. No. 271,277. SPOONER, INC., New York, N. Y. Filed Aug. 18, 1928.

CHEKITA

For Face Powders, Talcum Powders, Perfumes, Toilet Water, Rouge, Lip Stick, Sachet Powders, Facial Creams, and Skin and Hair Lotions.

Claims use since about Jan. 15, 1928.

Ser. No. 271,440. OTTO KAESBACH, Berlin, Germany. Filed Aug. 23, 1928.

Okasa

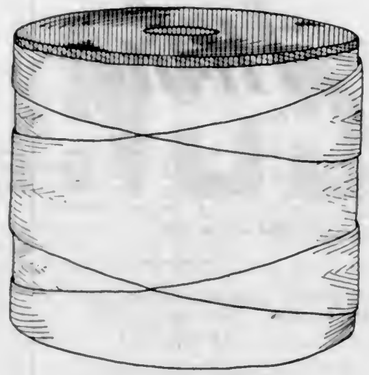
For Medicinal Preparation for Strengthening Nerves.

Claims use since 1922.

CLASS 7.

Cordage.

Ser. No. 260,240. PLYMOUTH CORDAGE COMPANY, Plymouth, Mass. Filed Jan. 17, 1928.



The trade-mark being the representation of a disk seen at the top of the ball. The lines in the disk at the top of the figure indicate red. The trade-mark is applied or affixed to the goods by applying impregnating material to one end and a trifle of the adjacent cylindrical side of the ball or package, the shaded area in the drawing indicating the impregnated portion, no exclusive claim being made to the representation of the ball per se.

For Bidder Twine.

Claims use since Oct. 18, 1927.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 262,978. DR. HEINR. TRAUN & SÖHNE, VORMALS HARBURGER GUMMI-KAMM-COMPAGNIE, Hamburg, Germany. Filed Mar. 10, 1928.



For Smoker's Supplies as follows, None of the Goods Being Made of Precious Metals; Pipes and Pipe Bits, Cigar Holders, Cigarette Holders, and Parts Thereof.

Claims use since about 1887.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 264,530. WILLIAM PAUL, Beecher, Ill. Filed Apr. 7, 1928.



For Air Shotguns and Shells Therefor.

Claims use since Nov. 27, 1927.

CLASS 10.

Fertilizers.

Ser. No. 265,391. JAMES F. MCGHEE, doing business as American Soda Products Company, Moorestown, N. J. Filed Apr. 25, 1928.

Grogreen
A WONDERFUL
FERN FOOD
AND INDOOR PLANT STIMULATOR

All wording on the drawing with the exception of the words "Grogreen" and "Wonderful" is disclaimed apart from the mark shown in the drawing.

For Fertilizers.

Claims use since Dec. 13, 1924.

Ser. No. 269,093. COWETA FERTILIZER COMPANY, Newman, Ga. Filed July 5, 1928.

COWETA

For Fertilizers.

Claims use since 1885.

Ser. No. 269,125. NAVASSA GUANO COMPANY OF WILMINGTON, Wilmington, N. C. Filed July 5, 1928.

NAVASSA

For Fertilizers.

Claims use since 1875.

Ser. No. 270,318. LYMAN CARRIER, Granger, Ind. Filed July 30, 1928.

LECCO

For Fertilizers and Ingredients in Fertilizers.
Claims use since July 1, 1926.

CLASS 12.

Construction Materials.

Ser. No. 262,569. LA PORTE SASH & DOOR CO., INC., La Porte, Ind. Filed Mar. 3, 1928.

LASADO WOOD WORK

The word "Woodwork" is disclaimed as a part of the trade-mark.
For Articles of Building Woodwork—Namely, Sash, Doors, Windows, Window Frames, Interior Trim, Exterior Trim, Door Frames, Mouldings, Flooring, Stairs and Stair Parts, Store Fronts, Screens, and Colonnades.
Claims use since Jan. 1, 1921.

Ser. No. 269,801. SILICA PRODUCTS CO., Los Angeles, Calif. Filed July 18, 1928.

PLASTIC KING

For Portland Cement.
Claims use since February, 1927.

Ser. No. 270,916. DANIEL B. DANIELSON, doing business as "Tie-To" Insert Co., Milwaukee, Wis. Filed Aug. 13, 1928.

"TIE-TO"

For Metal-Lath Hangers.
Claims use since July 26, 1928.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 261,259. H. L. JUDD COMPANY, INC., New York, N. Y. Filed Feb. 6, 1928.

"Hi-lite"

For Curtain Poles, Curtain-Pole Ends, Curtain-Pole Brackets, Curtain-Pole Sockets, Curtain Holdbacks, Curtain Cranes, and Metal Curtain Tassels, All Comprising Curtain-Pole Fixtures and Drapery Hardware.
Claims use since Dec. 16, 1927.

Ser. No. 270,577. THE ENTERPRISE ALUMINUM COMPANY, Massillon, Ohio. Filed Aug. 4, 1928.

DRIP O LATOR

For Coffeepots.
Claims use since July 17, 1928.

Ser. No. 270,732. VAUGHAN NOVELTY MANUFACTURING CO., Chicago, Ill. Filed Aug. 7, 1928.

Perfo-Siphon

The word "Siphon" is disclaimed apart from the mark shown.
For Siphon for Use on Bottles of Carbonated Beverages.
Claims use since on or about November, 1927.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 263,236. UDDEHOLMS AKTIEBOLAG, Uddeholm, Sweden. Filed Mar. 15, 1928.

UB

For Iron and Steel in the Shape of Rolled or Hammered Bars or Tubes, Wire, Rods, or Drawn Wire.
Claims use since 1894.

Ser. No. 264,757. THE INTERNATIONAL NICKEL COMPANY, New York, N. Y. Filed Apr. 13, 1928.

INCO

For Nickel, Nickel Ingots, Electrolytic Nickel, Alloys Containing Nickel, and Nickel Shot.
Claims use since March, 1923.

CLASS 15.

Oils and Greases.

Ser. No. 267,807. TRAVIS O. SMITH, Denver, Colo. Filed June 9, 1928.

TOP-CY OIL

The word "Oil" is disclaimed apart from the mark as shown.
For Lubricating Oils and Greases.
Claims use since on or about May 1, 1928.

Ser. No. 270,622. W. H. BARBER COMPANY, Minneapolis, Minn. Filed Aug. 6, 1928.

Univerzoil

For Lubricating Oils and Greases.
Claims use since Mar. 1, 1927.

Ser. No. 271,278. SWAN-FINCH OIL CORPORATION, New York, N. Y. Filed Aug. 18, 1928.



For Lubricating Oils and Greases.
Claims use since Aug. 5, 1910.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 266,555. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed May 17, 1928.

GLOSFAST

For Dry and Ready-Mixed Paints, Varnishes, Paint Enamels, Stains, and Lacquers.
Claims use since Apr. 30, 1928.

Ser. No. 267,788. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed June 9, 1928.

DOVAL

For Dry and Ready-Mixed Paints, Varnishes, and Paint Enamels.
Claims use since Apr. 18, 1928.

Ser. No. 270,959. DEVOE & RAYNOLDS CO., INC., New York, N. Y. Filed Aug. 13, 1928.

PAINLESS PAINTING

For Lacquers, Varnishes, Paint Enamels, and Mixed Paints.
Claims use since June 10, 1928.

Ser. No. 271,813. THE LOWE BROTHERS COMPANY, Dayton, Ohio. Filed Aug. 31, 1928.

THOROBRED

For Linseed-Oil House Paint.
Claims use since Aug. 21, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 266,827. PENN CIGAR COMPANY OF PITTSBURGH, Pittsburgh, Pa. Filed May 22, 1928.

PEN POINT

For Cigars and Stogies.
Claims use since May 15, 1923.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 270,174. DUAL DUTY CO., Alma, Mich. Filed July 26, 1928.

DUAL DUTY

For Vehicle Extension Units.
Claims use since Jan. 3, 1928.

Ser. No. 270,229. THE BIRD WING COMMERCIAL AIRCRAFT COMPANY, St. Joseph, Mo. Filed July 27, 1928.

BIRD WING

For Airplanes.
Claims use since June 4, 1927.

Ser. No. 270,289. H. H. FRANKLIN MANUFACTURING COMPANY, Syracuse, N. Y. Filed July 28, 1928.

Franklin

For Automobiles and Structural Parts Thereof.
Claims use since May 27, 1927.

Ser. No. 270,329. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed July 30, 1928.

OAKLAND

The drawing is lined for red and blue, with solid black portions representing gold color. The applicant herein is the present owner of trade-mark registrations Nos. 124,571, Feb. 25, 1919, and 124,572, of the same date, and of trade-mark registrations Nos. 201,703 and 201,704, both registered on Aug. 4, 1925, and 214,952, registered July 6, 1926.

For Automobiles and Structural Parts.
Claims use since June 22, 1928.

Ser. No. 270,465. CURTISS AEROPLANE AND MOTOR COMPANY, INC., Buffalo and Garden City, N. Y. Filed Aug. 2, 1928.

SEA HAWK

For Aeroplanes.
Claims use since May 1, 1927.

Ser. No. 270,466. CURTISS AEROPLANE AND MOTOR COMPANY, INC., Buffalo and Garden City, N. Y. Filed Aug. 2, 1928.

SUPER HAWK

For Aeroplanes.
Claims use since Mar. 1, 1928.

Ser. No. 270,467. THE DAVIS WELDING & MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Aug. 2, 1928.

DAVISTAKE

For Truck Bodies.
Claims use since Dec. 27, 1926.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 253,136. ALBERT E. CALDWELL, doing business as The Ardola Co., Galesburg, Ill. Filed Aug. 6, 1927.

ARDOLA

For Radio Receiving Sets.
Claims use since October, 1926.

Ser. No. 262,980. DR. HEINR. TRAUN & SÖHNE, VORMALS HARBURGER GUMMI-KAMM-COMPAGNIE, Hamburg, Germany. Filed Mar. 10, 1928.

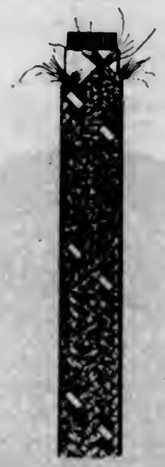
SEMPER SURSUM.

The English equivalent of the Latin words "Semper Sursum" shown in the drawing is "Ever Upwards."

For Electrical Commodities or Parts Thereof Made Wholly or in Part of India Rubber or of Synthetic or Other Artificial Resins, as Follows: Battery Casings, Panels, Rods, and Sheets, Dials for and Other Parts of Radio Sets, Wing Nuts and Thumb Nuts, Knobs, Handles, Plugs, Bolts, Binding Posts, and Binding-Post Heads, Telephone Ear and Head Phones and Telephone Mouthpieces, Radio Horns (Loud Speakers), Insulators and Insulating-Wire Supports, Conduits, Vibrating Diaphragms, Sound Mufflers, Insulating Lining or Covering Made of Rubber for Flexible Metal Pipes, Conduits, or Couplings, Impregnated Paper for Electrical Insulation, and Other Insulating Material and Articles Made Therefrom.

Claims use since about 1887.

Ser. No. 265,252. HELDEN MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 23, 1928.



No claim is made to the representation of the goods. The mark consists in the color orange applied to the covering or braiding woven in such covering by means of three parallel and adjacent strands or threads and forming a broken red, white, and blue spiral stripe.

For Electrical Conductors Comprising Specifically Electric Cables and Wires for Use on Self-Propelled Vehicles Including Motor Cars, Aircraft, and Watercraft.

Claims use since Mar. 16, 1928.

Ser. No. 265,946. WILLIAM A. BROWN, Philadelphia, Pa. Filed May 5, 1928.

HOUSE BEAUTIFUL

For Electric Heating Devices—Namely, Air and Space Heaters and Parts Thereof; Electric Lighting Devices—Namely, Floor and Table Lamps and General Lighting Fixtures for Residential Lighting and Parts Thereof; Electric Cooling Devices—Namely, Fans, Wire and Wiring Accessories, Bases, Outlet Boxes, and Accessories.

Claims use since June 13, 1922.

Ser. No. 271,314. RADIALL COMPANY, New York, N. Y. Filed Aug. 20, 1928.

Lin-A-trol

For Automatic Regulators for Electric Current Used in Radio and Electrical Work.
Claims use since Jan. 9, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 269,444. GEO. BORGFELDT & CO., New York, N. Y. Filed July 12, 1928.

Fly-Lo

For Dolls.
Claims use since June 29, 1928.

Ser. No. 271,247. GO-PONY COMPANY, Milwaukee, Wis. Filed Aug. 18, 1928.

GO-PONY

For Toy Horse.
Claims use since Feb. 1, 1928.

Ser. No. 271,604. THE HORTON MANUFACTURING COMPANY, Bristol, Conn. Filed Aug. 27, 1928.

"KAYO"

For Fishing Rods.
Claims use since July 17, 1928.

Ser. No. 271,673. ADVERTISING GOLF BALL CORPORATION, New York, N. Y. Filed Aug. 29, 1928.

INSURO

For Golf Balls.
Claims use since May 1, 1928.

Ser. No. 271,805. EDWIN HETHERINGTON, Cedar Rapids, Iowa. Filed Aug. 31, 1928.

Jolly-Jinks

For Teeter Boards.
Claims use since on or about May 15, 1928.

Ser. No. 271,897. CHIHIRO KATAGIRI, New York, N. Y. Filed Sept. 4, 1928.

BRANKO

For Mechanical Acrobatic Toys.
Claims use since Aug. 29, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 243,942. HAMMOND TYPEWRITER CORPORATION, New York, N. Y. Filed Feb. 7, 1927.

Varityper

For Typewriter Machines.
Claims use since about Dec. 7, 1926.

Ser. No. 262,371. MODERN UTENSILS CORPORATION, New York, N. Y. Filed Feb. 28, 1928.

PRESTO

For Dish Washing and Rinsing Machines.
Claims use since Dec. 1, 1927.

Ser. No. 262,433. VINCI CARBURATOR AKTIEBOLAG, Stockholm, Sweden. Filed Feb. 29, 1928.

VINCI

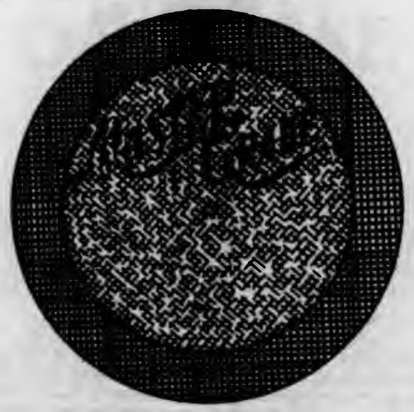
For Carburetors.
Claims use since Dec. 14, 1927.

Ser. No. 264,235. THE HUGHES-KEENAN COMPANY, Mansfield, Ohio. Filed Apr. 3, 1928.

HOGGER

For Direct-Mounted Tractor Attachments for Loading Vehicles with Earth and the Like.
Claims use since Jan. 4, 1926.

Ser. No. 264,400. THE WHOLESALE TYPEWRITER COMPANY, New York, N. Y. Filed Apr. 5, 1928.



No claim is made to the words "Master Grade" apart from the mark as shown in the drawing. The drawing is lined for black and orange.

For Remanufactured and Rebuilt Typewriters and Accessories Pertaining Thereto.
Claims use since 1920.

Ser. No. 264,822. THE HUGHES-KEENAN COMPANY, Mansfield, Ohio. Filed Apr. 14, 1928.

BOOSTER

For Attachments for Vehicle Chassis Which Permit Elevation and Lowering of the Vehicle Bodies Under Control of an Operator.
Claims use since Mar. 15, 1925.

Ser. No. 266,229. THE UNION FORK & HOE COMPANY, Columbus, Ohio. Filed May 10, 1928.



All words shown in the drawing excepting "Union" and "Circle" are disclaimed. The lining of the drawing is for the purpose of shading only.

For Fish Forks, Hayforks, Clover Forks, Header Forks, Grain Forks, Barley Forks, Manure Forks, Baling-Press Forks, Stone-Picker Forks, Digging Forks, Spading Forks, Garbage Forks, Shaving Forks, Ensilage Forks, Pulp Forks, Barn Forks, Beet Forks, Vegetable Scoop Forks, Cottonseed Forks, Asphalt Forks, Coke Forks, Coal Forks, Stone Forks, Ballast Forks, Railroad Tamping Forks, Phosphate Forks, Tanners' Forks, Potato Hooks, Shrubbery Hooks, Nurserymen's Hooks, Clam Hooks, Manure Hooks, Garbage Hooks, Refuse Hooks, Stone Hooks, Phosphate Hooks, Phosphate Drags, Garden Rakes, Gravel Rakes, Broom Rakes, Lawn Rakes, Dandelion Rakes, Road Rakes, Asphalt Rakes, Tar Rakes, Pine-Needle Rakes, Two-Men Rakes, Field Hoe, Garden Hoe, Warren Hoe, Nursery Hoes, Beet-Thinning Hoes, Tobacco Hoes, Meadow Hoes, Corn Hoes, Onion Hoes, Cotton Hoes, Chopper Hoes, Weeding Hoes, Cultivator Hoes, Scupple Hoes, Mortar-Mixer Hoes, Chicken-House or Barn-Floor Scrapers, Mattock Hoes, Eye Hoes, Handled Grubs, Grading Hoes, Grape Hoes, Sidewalk Cleaners, Floor Scrapers, Ice Chisels, Ship and Deck Scrapers, Concrete Spades, Turf Edgers, Sod Lifters, Thistle and Dock Cutters, Dandelion Weeders, Cultivators, Lettuce Cutters, Hand Weeders, Hand Garden Spades, Midget Warren Hoes, Triangular Hoes, Nurserymen's Trowels, Garden Trowels, Transplanting Trowels, Fire Shovels, Pokers, Implement-Repair Handles, Implement Ferrules and Caps.
Claims use since Mar. 21, 1907.

Ser. No. 270,246. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio. Filed July 27, 1928.



The lining shown in applicant's drawing is for the purpose of shading only. No claim is made to the representation of the goods.

For Excavating, Elevating, and Conveying Machinery.
Claims use since Mar. 8, 1928.

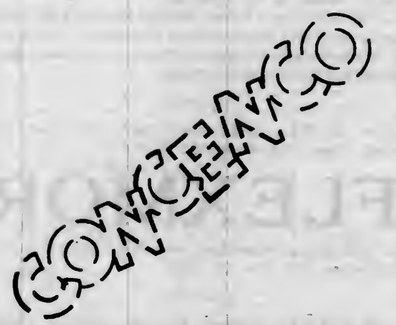
Ser. No. 271,109. AMERICAN HANDLE COMPANY, Jonesboro, Ark. Filed Aug. 16, 1928.



The representation of tool handles is disclaimed.

For Handles for Hand Tools, Including Axes, Hatchets, Adzes, Picks, Sledges, and Hammers.
Claims use since 1907.

Ser. No. 271,233. THE DEISTER CONCENTRATOR COMPANY, Fort Wayne, Ind. Filed Aug. 18, 1928.



For Vibrating Screens and Concentrating Tables Used for Separating and Sizing Various Materials, Such as Sand, Gravel, Crushed Stone, Coal, Coke, Clay, Sawdust, Meal, Salt, Sugar, Cement, Gypsum, Etc.
Claims use since July 2, 1928.

Ser. No. 271,770. JOHANNES TH. PEDERSEN, New York, N. Y. Filed Aug. 30, 1928.

SPOON-RITE

For Fork-Tine Straighteners.
Claims use since Mar. 1, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 263,816. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany. Filed Mar. 27, 1928.

Meroxam

For Sensitized Photographic Papers.
Claims use since Nov. 29, 1927.

Ser. No. 266,922. FIRST NATIONAL PICTURES, INC., New York, N. Y. Filed May 24, 1928.



The word "Production" forms a part of the registration sought only in combination with the other features of the mark shown in the drawing.

For Motion-Picture Films, Motion-Picture Films for Use in Connection with Synchronized Apparatus for Simultaneously Reproducing Coordinated Light and Sound Effect.
Claims use since May 15, 1928.

Ser. No. 271,371. AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Aug. 22, 1928.

FLEXMOR

For Ophthalmic Mountings and Parts Therefor.
Claims use since Dec. 28, 1927.

Ser. No. 271,845. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Sept. 1, 1928.

Orthogon

For Ophthalmic Lenses.
Claims use since Aug. 2, 1928.

CLASS 27.

Horological Instruments.

Ser. No. 270,780. PARK WATCH IMPORT CO., INC., Buffalo, N. Y. Filed Aug. 8, 1928.

RIO

For Watches.
Claims use since July 1, 1928.

Ser. No. 270,836. FABRIQUES MOVADO, La Chaux-de-Fonds, Switzerland. Filed Aug. 10, 1928.

ERMETO

For Watches and Parts of Watches.
Claims use since 1927.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 266,478. PHI BETA, Evanston, Ill. Filed May 16, 1928.



For Fraternity Pins and Rings All Made of or Plated with Precious Metal.
Claims use since Sept. 26, 1914.

Ser. No. 271,216. THE WADSWORTH WATCH CASE COMPANY, Dayton, Ky. Filed Aug. 17, 1928.

ATHENA

For Bracelets and Watch Bands.
Claims use since Aug. 19, 1927.

Ser. No. 271,373. BLANCARD & COMPANY, INC., New York, N. Y. Filed Aug. 23, 1928.



For Finger Rings.
Claims use since Aug. 10, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 270,736. BARONET MILLS, INC., New York and College Point, N. Y. Filed Aug. 8, 1928.

Ramona

For Powder Puffs.
Claims use since July 19, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 226,730. MILWAUKEE WOVEN WIRE WORKS, Milwaukee, Wis. Filed Feb. 1, 1926.



The crosshatching is for the purpose of shading only. The words "The Better Spring, Guaranteed" and applicant's name are all disclaimed apart from the mark as shown.

For Bed Springs.
Claims use since Jan. 11, 1926.

Ser. No. 270,684. YAWMAN AND ERBE MFG. CO., Rochester, N. Y. Filed Aug. 6, 1928.

RED TOP

The drawing is lined for red.

For Filing Equipment, Particularly File Guides for Filing Cabinets.
Claims use since Apr. 20, 1928.

Ser. No. 271,028. SIMON GELFAND, Los Angeles, Calif. Filed Aug. 15, 1928.

SALAD BOWL

For Display Stands for Food Products.
Claims use since May 19, 1928.

CLASS 33.

Glassware.

Ser. No. 247,605. SAMUEL B. DAUCKER, doing business as Visa Company, New York, N. Y. Filed Apr. 18, 1927.

VISA

For Empty Glass Jars for Mayonnaise Products—Namely, Mayonnaise.
Claims use since about October, 1926.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 261,806. FIRE-KING STOKER COMPANY, Indianapolis, Ind. Filed Feb. 17, 1928.



For Combined Stoker and Burner for Coal.
Claims use since Oct. 31, 1927.

Ser. No. 262,499. YORK HEATING & VENTILATING CORPORATION, Bridgeport and Philadelphia, Pa. Filed Mar. 1, 1928.



For Radiators for Direct and Indirect Heating, Heat-Diffusing Units for Indirect Heating Comprising Coils and Casings Arranged for Circulation of Air About the Coils, Fans, Blowers for Blowing Air Over Heating Surfaces, and Air-Cooling Apparatus Wherein Air is Mechanically Blown Over Cooling Surfaces.
Claims use since Jan. 4, 1928.

Ser. No. 262,500. YORK HEATING & VENTILATING CORPORATION, Bridgeport and Philadelphia, Pa. Filed Mar. 1, 1928.

SUPER-FIN

The word "Fin" is hereby disclaimed apart from the mark shown.

For Radiators for Direct and Indirect Heating, Heat-Diffusing Units for Indirect Heating Comprising Coils and Casings Arranged for Circulation of Air About the Coils, Fans, Blowers for Blowing Air Over Heating Surfaces, and Air-Cooling Apparatus Wherein Air is Mechanically Blown Over Cooling Surfaces.
Claims use since Jan. 4, 1928.

Ser. No. 265,533. FRANKART, INC., New York, N. Y. Filed Apr. 28, 1928.



For Incense Burners and Candle Holders.
Claims use since about January, 1924.

Ser. No. 268,920. FEDERAL MERCHANDISE COMPANY, Chicago, Ill. Filed June 30, 1928.

AIRMASTER

For Motor-Driven Window Ventilators.
Claims use since May 28, 1928.

Ser. No. 270,611. GEO. D. ROPER CORPORATION, Rockford, Ill. Filed Aug. 4, 1928.

Flying Chef

For Gas Stoves and Ranges.
Claims use since July 21, 1928.

Ser. No. 270,813. VESTA GAS RANGE AND MANUFACTURING CO., Chattanooga, Tenn. Filed Aug. 9, 1928.

VESTA

For Ranges and Stoves in Which Coal, Wood, or Gas is Used as Fuel.
Claims use since 1911.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 261,608. COLUMBIA PHONOGRAPH COMPANY, INC., Bridgeport, Conn. Filed Feb. 13, 1928.

Grafonola

For Phonographs or Talking Machines, Parts and Accessories Therefor—Namely, Spring Motors, Tone Arms, Sound Boxes, Needle Cups, Stop Mechanisms, Diaphragms, and Horns.
Claims use since on or about Nov. 4, 1909.

Ser. No. 262,036. LINK PIANO COMPANY, Binghamton, N. Y. Filed Feb. 21, 1928.



For Musical Instruments—Namely, Phonographs.
Claims use since Jan. 1, 1928.

Ser. No. 268,904. ARTOPHONE CORPORATION, doing business as Uniphonic Manufacturing Company, St. Louis, Mo. Filed June 30, 1928.



No claim is made herein to the words "The Original Tone" or "St. Louis, Missouri" apart from the mark shown in the drawing.
For Phonograph.
Claims use since Mar. 1, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 269,939. EDWIN BROUN, New York, N. Y. Filed July 21, 1928.

Lo-Ly

For Blotters.
Claims use since June 27, 1928.

Ser. No. 270,017. CORONA PEN COMPANY, Antioch and Chicago, Ill. Filed July 23, 1928.



The mark consists of an annulus bordered both inside and outside with the body color of the pen.
For Fountain Pens.
Claims use since July 12, 1928.

Ser. No. 270,279. EDWARD J. CARTER, doing business as E-Z-Way Products Company, Los Angeles, Calif. Filed July 28, 1928.



No claim is made to the use of the word "Way" separate and apart from the mark as shown.
For Masking and Stencil Papers Used in Painting.
Claims use since December, 1927.

Ser. No. 270,301. OLD COLONY ENVELOPE CO., Westfield, Mass. Filed July 28, 1928.

ART INLAID

For Mailing Envelopes and Greeting and Announcement Cards.
Claims use since July 1, 1927.

Ser. No. 271,235. THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Aug. 18, 1928.

HIPPO KRAFT



No claim is made herein to the word "Kraft" apart from the mark shown in the drawing.
For Wrapping Paper and Tissue Paper.
Claims use since Jan. 1, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 235,317. LEWIS C. PRITCHARD, doing business as The Community Thrift Saving Company, Parkersburg, W. Va. Filed July 29, 1926.



For Charts.
Claims use since June 2, 1925.

Ser. No. 259,350. THE BOYS' MAGAZINE PUBLISHING CO., Cincinnati, Ohio. Filed Dec. 27, 1927.

HY-OL-TIMER

For Monthly Periodical.
Claims use since August, 1927.

Ser. No. 260,390. INTERNATIONAL FEATURE SERVICE, INC., New York, N. Y. Filed Jan. 20, 1928.

Abie

For Newspaper Cartoons.
Claims use since Sept. 11, 1921.

Ser. No. 266,123. CARL A. BUNDY, doing business as Carl A. Bundy Quill & Press, Los Angeles, Calif. Filed May 9, 1928.

Airine News

For Monthly Publication.
Claims use since May 1, 1928.

Ser. No. 268,827. UNITED PROFIT-SHARING CORPORATION, New York, N. Y. Filed June 28, 1928.

INDIVIDUALIZED PREMIUM SERVICE

No claim is made to the words "Premium Service" apart from the mark as shown.
For Premium Coupons.
Claims use since Oct. 1, 1927.

Ser. No. 270,173. DISTRIBUTION & WAREHOUSING PUBLICATIONS, INC., New York, N. Y. Filed July 26, 1928.

The Business Paper of the Warehouse Industry

The words "The Business Paper of the Warehouse Industry" so far as they are of descriptive significance are disclaimed apart from the mark shown.
For Monthly Magazine.
Claims use since on or about September, 1925.

Ser. No. 270,863. SIMMONS-BOARDMAN PUBLISHING CO., New York, N. Y. Filed Aug. 10, 1928.

Airway Age

For Monthly Magazine.
Claims use since July 17, 1928.

Ser. No. 271,137. THE MERCANTILE ADJUSTER PUBLISHING CO., INC., Chicago, Ill. Filed Aug. 16, 1928.

THE MERCANTILE ADJUSTER

For Bimonthly Publication.
Claims use since 1886.

Ser. No. 271,185. ILES-AYARS PUBLISHING CO., INC., Los Angeles, Calif. Filed Aug. 17, 1928.

Southwest Builder and Contractor

For News-Magazine Heading Published Friday of Each Week.
Claims use since July 6, 1917.

Ser. No. 271,704. THE MERCANTILE ADJUSTER PUBLISHING CO., INC., Chicago, Ill. Filed Aug. 29, 1928.

For Bimonthly Publication.
Claims use since 1886.

CLASS 39.

Clothing.

Ser. No. 220,792. D. M. OBERMAN MFG. CO., New York, N. Y. Filed Sept. 25, 1925.

Dixie-Tex

For Men's Trousers.
Claims use since July 20, 1925.

Ser. No. 241,973. WEIL CLOTHING CO., St. Louis, Mo. Filed Dec. 24, 1926.

Worth Weil

For Men's Outer Wearing Apparel—Namely, Coats, Vests, Trousers, Suits, Overcoats, and Topcoats.
Claims use since Dec. 1, 1926.

Ser. No. 247,339. NEUSTADTER BROTHERS, San Francisco, Calif. Filed Apr. 12, 1927.



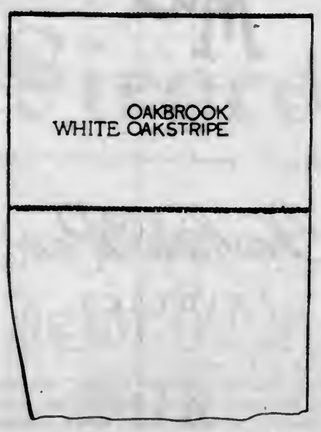
The drawing shows the center panel lined for blue and the border or outline lined for red.
For Overalls.
Claims use since Jan. 15, 1927.

Ser. No. 253,759. MAX KURZROK & ISIDORE HELITZER, INC., New York, N. Y. Filed Aug. 20, 1927.

Varsity

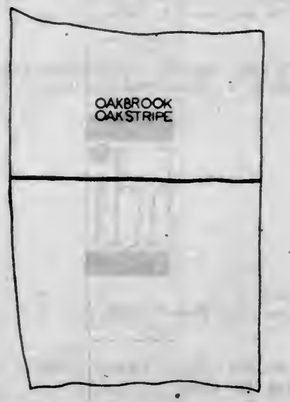
For Ladies' and Misses' Silk and Wool Jersey Dresses.
Claims use since June 25, 1927.

Ser. No. 265,116. OAKBROOK HOSIERY MILLS, INC., Reading, Pa. Filed Apr. 19, 1928.



The design consists of two stripes, one colored white and the other oak. The representation of the top of the stocking appearing on the drawing does not form a part of the registration sought.
For Hosiery.
Claims use since Jan. 7, 1928.

Ser. No. 265,117. OAKBROOK HOSIERY MILLS, INC., Reading, Pa. Filed Apr. 19, 1928.



The trade-mark consists of the words "Oakbrook Oak Stripe" associated with two oak-colored stripes. The representation of the top of the stocking appearing on the drawing does not form a part of the registration sought.
For Hosiery.
Claims use since Jan. 7, 1928.

Ser. No. 265,743. WALL-STREETER SHOE CO., North Adams, Mass. Filed May 1, 1928.

Foot Pals

For Men's, Women's, Misses', and Children's Shoes of Leather, Leather and Fabric, Rubber, Rubber and Fabric and Combinations of Any of These.
Claims use since Feb. 20, 1928.

Ser. No. 266,213. FORD NAYLOR, New York, N. Y. Filed May 10, 1928.

TATTERSALL

For Men's and Boys' and Ladies' Suits, Coats, Pants, Vests, and Overcoats.
Claims use since Dec. 15, 1924.

Ser. No. 266,425. HOPE KNITTING CO., Cohoes, N. Y. Filed May 15, 1928.

Hope BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
For Knit Underwear for Men, Women, and Children; Bathing Suits, Underwear Made from Woven Cloth and Children's Sleeping Garments in the Nature of Pajamas or Nightgowns Having Feet and Sleeves.
Claims use since June, 1926.

Ser. No. 267,969. HANS KRETZSCHMAR, doing business as Sterling Knitting Mills, Los Angeles, Calif. Filed June 13, 1928.

THE VOICE OF HOLLYWOOD
STERLING
BRAND
TRADE MARK

The words "Sterling Brand" and "Trade-Mark" are disclaimed apart from the mark as shown in the drawing.
For Knitted Cravats, Knitted Necktles; Knitted Underwear, for Men, Women, and Children; Knitted Sweaters for Men, Women, and Children; Knitted Bathing Suits, and Knitted Dresses for Women and Children.
Claims use since May 11, 1928.

Ser. No. 268,949. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1928.



For Men's and Boys' Negligee and Work Shirts.
Claims use since about Sept. 30, 1927.

Ser. No. 270,061. TOURAINE GLOVE COMPANY, INC., Boston, Mass. Filed July 23, 1928.

Wonder-Weave

The word "Weave" is disclaimed apart from the mark shown in the drawing.
For Hosiery.
Claims use since Jan. 1, 1924.

Ser. No. 270,095. PORTER CLOTHING CO., INC., New Orleans, La. Filed July 24, 1928.



No claim is made to the word "Aberdeen" apart from the mark as shown.
For Suits for Men, Overcoats, Tuxedos, Trousers, Vests, Conts, Negligee and Dress Shirts, Pajamas, Hats, Leather Shoes, and Undershirts, Drawers, and Union Suits of Wool, Cotton, Silk, or Rayon or Any Mixtures or Combinations of Same.
Claims use since July 6, 1928.

Ser. No. 270,494. VAN. B. MOLER CO., INC., New York, N. Y. Filed Aug. 2, 1928.

"Socklings"

For Short Socks.
Claims use since July 27, 1928.

Ser. No. 270,759. J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed Aug. 8, 1928.

CARAVAN

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats for Men, Youths, and Boys.
Claims use since Jan. 31, 1928.

Ser. No. 270,979. SMILEY-HEIDE, INC., New York, N. Y. Filed Aug. 13, 1928.

Little Master

For Rompers, Creepers, and Baby Boy Dresses and Suits.
Claims use since June 1, 1928.

Ser. No. 271,117. THE FAIR, Chicago, Ill. Filed Aug. 16, 1928.

Fashion Row
CLOTHES

No claim is made to the word "Clothes" apart from the mark shown on the drawing.
For Men's, Youths' and Boys' Suits, Coats, Pants, Vests, Overcoats, Raincoats, Topcoats, and Waterproof Coats, and Ladies', Misses', and Girls' Suits, Coats, Dresses, Waists, Raincoats, and Waterproof Coats.
Claims use since Aug. 3, 1928.

Ser. No. 271,203. STRAHAN & CO., Philadelphia, Pa. Filed Aug. 17, 1928.

REPETO

For Hosiery.
Claims use since July 1, 1928.

Ser. No. 271,256. HOSIERY DISTRIBUTORS INSTITUTE, INC., New York, N. Y. Filed Aug. 18, 1928.



For Hosiery.
Claims use since June 1, 1928.

Ser. No. 271,259. LOUIS LEWIN COMPANY, Chicago, Ill. Filed Aug. 18, 1928.

RANCHERO

For Overalls.
Claims use since January, 1928.

Ser. No. 271,301. GOODWEAR KNITTING MILLS, Philadelphia, Pa. Filed Aug. 20, 1928.

JAZZ-SEA

For Swimming Suits.
Claims use since May, 1927.

CLASS 41.

Canes, Parasols, and Umbrellas.

Ser. No. 269,040. SIEGEL, ROTHSCHILD-GANS BROS. INC., Baltimore, Md. Filed July 3, 1928.

Siroco

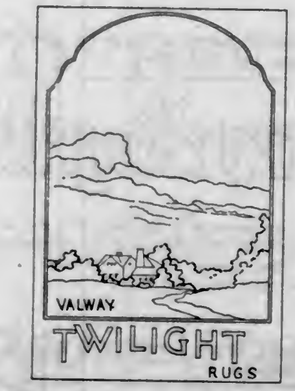
The Jeweler's Silk

No claim is made to the words "The Jeweler's Silk" apart from the mark shown in the drawing.
For Umbrellas.
Claims use since Apr. 1, 1927.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 258,468. HILLSIDE COTTON MILLS, doing business as VALLEY MILLS, Lagrange, Ga. Filed Dec. 5, 1927.



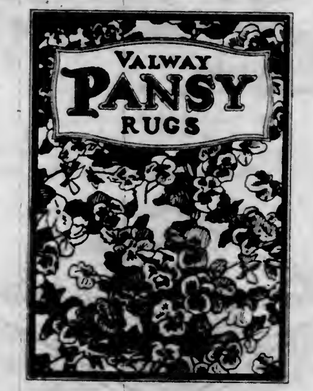
The word "Rugs" is disclaimed apart from the mark shown. "Valway Twilight Rugs" in white letters on a reddish-gray rectangular background beneath a panel insert having an arched upper border, the panel in the foreground having a landscape of bluish gray surrounding a cottage, the horizon being yellow, gradually merging into a very light red beneath a bank of clouds. Above the clouds the color of the sky gradually passes from a very light to a deep blue. Within the panel at its lower left-hand corner the word "Valway" is placed. Beneath the last two letters of "Twilight" the word "Rugs" appears. A white border surrounds the panel; and a curved pathway leads from the foreground toward the right of the cottage.
For Rugs of Textile Fabric.
Claims use since Nov. 3, 1927.

Ser. No. 258,895. COLONIAL BRAIDED RUG CO., Worcester, Mass. Filed Dec. 14, 1927.

COLBOR

For Braided Rugs Made of Textile Materials.
Claims use since Mar. 1, 1926.

Ser. No. 259,361. HILLSIDE COTTON MILLS, doing business as Valway Mills, Lagrange, Ga. Filed Dec. 27, 1927.



The word "Rugs" is disclaimed apart from the mark shown. "Valway Pansy Rugs" appearing on a horizontal panel of light blue background, the panel having an outwardly-curving border. The word "Pansy" is in brown letters bordered with yellow. "Valway" appears above the word "Pansy" and "Rugs" below it, both in brown. The panel is in the upper part of a rectangle which is bordered with a purple and a light-blue heavy line. The whole background of the rectangle is light blue, displaying groups of pansies of various colors.
For Rugs of Textile Fabric.
Claims use since Oct. 21, 1927.

Ser. No. 263,269. FREDERICK W. HILLIG, doing business as F. W. HILLIG COMPANY, New York, N. Y. Filed Mar. 16, 1928.

Cinderella

For Rayon and Cotton Bedspreads.
Claims use since December, 1924.

Ser. No. 263,399. FREDERICK W. HILLIG, doing business as F. W. HILLIG COMPANY, New York, N. Y. Filed Mar. 19, 1928.

Floradora

For Rayon Bedspreads.
Claims use since January, 1925.

Ser. No. 263,400. FREDERICK W. HILLIG, doing business as F. W. HILLIG COMPANY, New York, N. Y. Filed Mar. 19, 1928.

Rio Rita

For Rayon Bedspreads.
Claims use since January, 1925.

Ser. No. 265,483. LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Apr. 27, 1928.



No claim is made to the exclusive use of the word "Mohairs" apart from the mark shown in the drawing.
For Piece Goods, Being a Fabric With a Warp of Cotton, or of Cotton and Mohair Mixed, or of Cotton and Silk Mixed, or of Cotton and Artificial Silk Mixed, and a Filling of Wool or Cotton or Mohair or Alpaca or Silk or Artificial Silk, Singly or Combined.
Claims use since January, 1928.

Ser. No. 269,145. PI BETA PHI SETTLEMENT SCHOOL OF THE PI BETA PHI FRATERNITY, Gatlinburg, Tenn. Filed July 5, 1928.

ARROWCRAFT

For Textile Goods—Namely, Rugs, Towels, Pillow Covers, Runners and Scarfs for Use on Tables and Bureaus and the Like, Tablecloths, Doilies, Napkins, Blankets, Robes in the Nature of Lap Robes, Bath Mats, Bedspreads, Removable Chair-Seat Covers, Curtains and Drapes and Portières, Couch Covers, Dress Material in the Piece and in Cut Length, and Piece Goods, the Dress Material and Piece Goods Being of Cotton or Wool or Linen or of a Combination Thereof.
Claims use since on or about July 11, 1927.

Ser. No. 269,827. CARTER DRY GOODS CO., Louisville, Ky. Filed July 19, 1928.

Staywarm

For Textile Blankets.
Claims use since Sept. 1, 1925.

Ser. No. 270,286. THE ESMOND MILLS, Esmond, Smithfield, R. I. Filed July 28, 1928.

Cozette

For Textile Blankets.
Claims use since July 20, 1928.

Ser. No. 270,324. F. A. FOSTER & COMPANY, INCORPORATED, New York, N. Y. Filed July 30, 1928.

FENWAY

For Piece Goods Made of Cotton, Artificial Silk, Linen, and Jute and Mixtures of Said Materials; Drapery Fabrics Made of Cotton, Artificial Silk, Linen and Jute and Mixtures of Said Materials; Cotton, Jute, and Burlap Upholstery and Furniture Fabrics.
Claims use since July 2, 1925.

Ser. No. 270,543. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Aug. 3, 1928.

Duva

For Woolen Piece Goods.
Claims use since June 20, 1928.

Ser. No. 271,086. ROTH, GOLDMAN CO., INC., New York, N. Y. Filed Aug. 15, 1928.

CrepeRogette

No rights are asserted to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
For Silk Piece Goods.
Claims use since Apr. 15, 1928.

Ser. No. 271,311. PECK & PECK, New York, N. Y. Filed Aug. 20, 1928.

DROMEDARY

For Artificial-Camel-Hair Cloth in the Piece.
Claims use since Aug. 1, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 265,042. ABRAHAM GORTZ, Brooklyn, N. Y., assignor to Medico Health Products, Inc., Flushing, N. Y., a Corporation of New York. Filed Apr. 18, 1928.



No claim is made for the separate and exclusive use of the words "Filtered" and "Direct Flow Douche."
For Syringes.
Claims use since Apr. 16, 1928.

Ser. No. 267,495. S. H. KRESS & Co., New York, N. Y. Filed June 5, 1928.



DAINTINAPS

For Sanitary Napkins.
Claims use since Dec. 1, 1927.

Ser. No. 268,273. DERECT APPLIANCE COMPANY, Tenafly, N. J. Filed June 19, 1928.

DERECT

For Appliances for Irrigating the Colon of the Human Body.
Claims use since Sept. 20, 1927.

Ser. No. 269,632. THE BURDICK CORPORATION, Milton, Wis. Filed July 16, 1928.

Radio-Vitant

For Therapeutic Lamps.
Claims use since July 1, 1914.

Ser. No. 271,307. ORSON E. MERRILL, doing business as The Merrill Hospital Specialty Co., Edgerton, Wis. Filed Aug. 20, 1928.



No exclusive right is claimed in the representation of applicators apart from the mark shown in the drawing.
For Medicinal Applicators Used for Applying Medicaments in Surgery, Therapeutics, Etc.
Claims use since Jan. 15, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 260,715. CHAMPAGNE BEVERAGE CORP., New York, N. Y. Filed Jan. 27, 1928.

Fête Champagne

No claim is made to the exclusive use of the word "Champagne" apart from the mark shown on the drawing.
For Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since about Jan. 23, 1928.

Ser. No. 263,789. RAWLEY BROS., doing business as Pepsi Cola Bottling Co. Inc., Washington, D. C. Filed Mar. 26, 1928.



The lining on the drawing is for shading purposes only.
For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since May 19, 1927.

Ser. No. 265,345. SETHNESS COMPANY, Chicago, Ill. Filed Apr. 24, 1928.

HI LI PUNCH

No claim is made to the word "Punch" apart from the mark as shown.
For Nonalcoholic, Noncereal, Maltless Beverages and Syrups for Making the Same.
Claims use since Sept. 27, 1927.

Ser. No. 270,080. FABIAN HEDGES, INC., New York, N. Y. Filed July 24, 1928.

Forget-Me-Not

For Chocolate Syrup, Fruit Syrups, and Flavoring Extracts for Use in the Preparation of Soft-Drink Beverages. Claims use since 1923.

Ser. No. 272,029. THE HILLS BROTHERS COMPANY, New York, N. Y. Filed Sept. 7, 1928.

DROMEDARY

For Grapefruit Juice.
Claims use since Aug. 20, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 236,110. BIG DIAMOND MILLS COMPANY, Minneapolis, Minn. Filed Aug. 18, 1926.

BIG DIAMOND

For Wheat Offals.
Claims use since about June 1, 1926.

Ser. No. 253,172. MOREHOUSE MUSTARD & SUPPLY CO., Oakland, Calif. Filed Aug. 8, 1927.

MUSCO
BRAND

Applicant disclaims the word "Brand" except in the exact relation and association in which it appears.
For Mustard and Peanut Butter.
Claims use since Apr. 30, 1927.

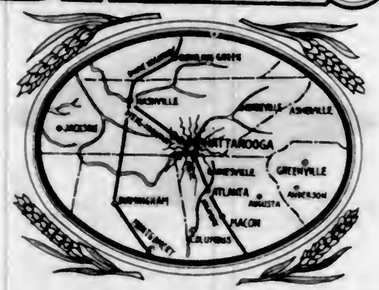
Ser. No. 253,974. JOSEPH AUGUST, doing business as August Bakery, Central Falls, R. I. Filed Aug. 26, 1927.

AUGUST

For Bread, Cake, and Pastry.
Claims use since July 23, 1927.

Ser. No. 254,086. MOUNTAIN CITY MILL CO., INC., Chattanooga, Tenn. Filed Aug. 29, 1927.

DYNAMO



All words except the words "Dynamo" and "Dixie Highway" are disclaimed apart from the mark shown in the drawing.
For Self-Rising Wheat Flour.
Claims use since July 6, 1927.

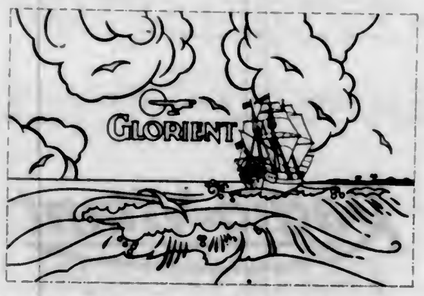
Ser. No. 254,087. MOUNTAIN CITY MILL CO., INC., Chattanooga, Tenn. Filed Aug. 29, 1927.

SILVER WONDER



For Self-Rising Wheat Flour.
Claims use since July 27, 1927.

Ser. No. 255,917. S. H. KRESS & Co., New York, N. Y. Filed Oct. 11, 1927.



For Fudge, Patties, Lollipops, Mints, Peanut Clusters, Raisin Clusters, Butterscotch, Peanut Bars, Cocoanut Bars, Chocolate Bars, Bonbons, and Chocolates.
Claims use since about August, 1926.

Ser. No. 258,995. THE CARR MILLING COMPANY, Hamilton, Ohio. Filed Dec. 16, 1927.

Silvertown

The drawing is lined for shading.
For Wheat Flour.
Claims use since Nov. 10, 1927.

Ser. No. 260,205. ZENITH PRODUCE CO., Duluth, Minn. Filed Jan. 16, 1928.

HONEY BLOSSOM

For Butter and Eggs.
Claims use since Mar. 1, 1924.

Ser. No. 264 498. MUTUAL STORES, INC., Oakland, Calif. Filed Apr. 7, 1928.

KLAMATH

For Pure Sage Honey, Relish Spread Consisting of Chopped Pickles and Mayonnaise, Canned Fish, Evaporated Milk, Dried Peaches, Jelly, Loganberry Preserves, Pure Apple-Cider Vinegar, Pop Corn in Its Natural State, Table Syrup, Chicken Tamale, Plain Pickles, Mayonnaise, Pepper, Lemon Extract for Flavoring Foods, Vegetable Shortening; Oats, a Breakfast Cereal; and Mushroom Sauce.
Claims use since Jan. 5, 1928.

Ser. No. 264,650. NESTLÉ'S FOOD COMPANY, INC., New York, N. Y. Filed Apr. 10, 1928.



For Milk Food for Infants, Children, and Invalids; Evaporated Milk, and Malted Milk.
Claims use since 1886 as applied to milk food for infants, children, and invalids; since January, 1923, as to evaporated milk; and since January, 1920, as to malted milk.

Ser. No. 265,320. DAIRY MADE ICE CREAM COMPANY, Paterson, N. J., assignor to Dairy Made Ice Cream Company, Inc., Paterson, N. J., a Corporation of Delaware. Filed Apr. 24, 1928.



All wording appearing on the drawing apart from the pictorial features of the mark is disclaimed.
For Ice Cream.
Claims use since Mar. 1, 1924.

Ser. No. 265,672. MAURY-COLE COMPANY, Memphis, Tenn. Filed Apr. 30, 1928.

BLUESTRIP

For Coffee.
Claims use since Feb. 16, 1926.

Ser. No. 265,777. CHATTERTON & SON, Lansing, Mich., and Toledo, Ohio. Filed May 2, 1928.



For Beans, Split Peas, and Lentils in Dried Natural State.
Claims use since May, 1925.

Ser. No. 265,844. THE JANSZEN COMPANY, Cincinnati, Ohio. Filed May 3, 1928.

DOT

For Coffee, Canned Fruits—Namely, Apples, Peaches, Pineapple, Pears, Fruit Salad, Apricots, Cherries, and Plums; Canned Vegetables—Namely, Asparagus, Cut String Beans, Corn, Sauerkraut, Pumpkin, Peas, Tomatoes, Lima Beans, Mixed Vegetables, Okra, Succotash, Carrots, Beets, Kidney Beans, Baked Beans, Spinach, Rhubarb, and Sweet Potatoes; Food-Flavoring Extracts, Tomato Purée; Canned Berries—Namely, Raspberries, Strawberries, and Loganberries; Canned Fish—Namely, Sardines, Salmon, and Oysters; Dried Fruits—Namely, Prunes, Currants, and Raisins; Evaporated Fruits—Namely, Peaches, Prunes, Apricots; Canned Soup, Table Syrup, Olives, Tea, Rice, Rolled Oats, Mince Meat, Russian Dressing, Jelly, Fruit Preserves, Catsup, Chili Sauce, Sandwich Spread, Peanut Butter, Apple Butter, Pickles, Spices, Mustard, Canned Blackberries, and Hominy.

Claims use since Jan. 16, 1928.

Ser. No. 266,389. FREDERICK ELWOOD MOJONNIER, doing business as Walla Walla Hothouse Vegetable Co., Walla Walla, Wash. Filed May 14, 1928.

BLUE MOUNTAIN

For Fresh Vegetables—Namely, Spinach, Green Onions, Asparagus, Rhubarb, Lettuce, Dry Onions, Beans, Beets, Carrots, Turnips, Peas, Radishes, Cabbage, Celery, Sweet Corn, Potatoes, Cucumbers, Peppers; Fresh Fruits—Namely, Cherries, Peaches, Apricots, Pears, Apples, Cantaloupes, and Grapes; Fresh Berries—Namely, Strawberries and Raspberries.

Claims use since May, 1921.

Ser. No. 266,416. CLARK BROTHERS CHEWING GUM CO., Pittsburgh, Pa. Filed May 15, 1928.



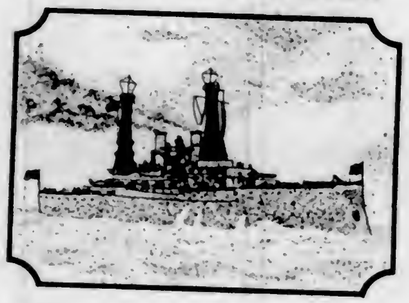
The words "Gum" and "World's Longest Chew" are disclaimed.

For Chewing Gum.

Claims use since Apr. 10, 1928.

Ser. No. 266,520. EAST TOLEDO MALT STORE, Toledo, Ohio. Filed May 17, 1928.

LAKE ERIE



For Malt Syrup.

Claims use since April, 1927.

Ser. No. 266,766. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed May 21, 1928.

ACTO

For Edible Oils.

Claims use since Oct. 19, 1918.

Ser. No. 267,639. DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928.

COLLENDER

For Canned Salmon.

Claims use since July, 1908.

Ser. No. 267,759. DELCROFT DELICACIES INC., Syracuse, N. Y. Filed June 9, 1928.

DELCROFT

For Sandwich Spread, Mayonnaise, Russian Dressing, Tomato Mayonnaise, Nonfattening Mayonnaise and Diabetic Mayonnaise.

Claims use since on or about Feb. 11, 1928.

Ser. No. 267,760. DELCROFT DELICACIES INC., Syracuse N. Y. Filed June 9, 1928.

MAYTO

For Tomato Mayonnaise.

Claims use since on or about Feb. 11, 1928.

Ser. No. 267,941. J. DOUMAKES, doing business as Doumaks' Marshmallow Company, Los Angeles, Calif. Filed June 13, 1928.

Crème Rose

For Marshmallows.

Claims use since May 4, 1928.

Ser. No. 268,629. D. L. PAGE COMPANY, Lowell, Mass. Filed June 25, 1928.

SALAD DRESSING
D. L. Page Co

No claim is made to the words "Salad Dressing" apart from the mark shown in the drawing.

For Salad Dressing.

Claims use since 1913.

Ser. No. 269,906. JOSEPH W. MOORE, doing business as Grossvater Malt Co., Youngstown, Ohio. Filed July 20, 1928.

GROSSVATER

For Malt Syrup.

Claims use since June 25, 1928.

Ser. No. 269,952. R. S. GEHLERT & Co., Detroit, Mich. Filed July 21, 1928.

SEVEN O'CLOCK



For Coffee.

Claims use since August, 1927.

Ser. No. 269,983. RICHMOND-CHASE COMPANY, San Jose, Calif. Filed July 21, 1928.



For Canned and Dried Fruits, Vegetables, and Fish.
Claims use since July, 1919.

Ser. No. 270,149. SUTTER PACKING COMPANY, Mayfield, Calif. Filed July 25, 1928.

BLUE LINE

The drawing is lined for the color blue.
For Canned Fruits.
Claims use since July 17, 1928.

Ser. No. 270,150. SUTTER PACKING COMPANY, Mayfield, Calif. Filed July 25, 1928.

YELLOW LINE

The drawing is lined for yellow.
For Canned Fruits.
Claims use since July 17, 1928.

Ser. No. 270,184. FABIAN HEDGES, INC., New York, N. Y. Filed July 26, 1928.

Forget-Me-Not

For Candy, Chocolate Syrup for Food Purposes, Flavoring Extracts for Food Purposes, Chocolate Fudge, Butterscotch Dressing, Caramel Dressing for Food Purposes, Crushed Fruit, and Marshmallow Products—Namely, Marshmallow Topping.
Claims use since Apr. 30, 1907.

Ser. No. 270,495. MOORMAN MFG. CO., Chicago, Ill. Filed Aug. 2, 1928.



The vertical shading lines on the drawing indicate the color red and the horizontal lines the color blue.
For Mineral Feeds for Hogs, Poultry, Cattle, Sheep, and Horses.
Claims use since April, 1926.

Ser. No. 270,507. RANSOM COAL & GRAIN COMPANY, Kansas City, Mo. Filed Aug. 2, 1928.



For Rabbit Food.
Claims use since June 15, 1928.

Ser. No. 270,798. MCDONALD BAKING CO., INC., Newark, N. J. Filed Aug. 9, 1928.



No claim is made to the descriptive terms "Toast Table Sandwich Bread" and "Today's Bread Today" apart from the mark as shown.
For Bread.
Claims use since Oct. 3, 1927.

Ser. No. 270,951. CHARLES W. BAUER, St. Louis, Mo. Filed Aug. 13, 1928.

Home Comfort

For Malt Syrup.
Claims use since July 15, 1928.

Ser. No. 271,065. CHALLENGE CREAM AND BUTTER ASSOCIATION, Los Angeles, Calif. Filed Aug. 15, 1928.

BANNER

For Unsweetened Evaporated Milk.
Claims use since May, 1928.

Ser. No. 271,093. TOWN TALK SANDWICH SHOPS, INC., Wilmington, Del. Filed Aug. 15, 1928.



The descriptive term "Just Better Foods" is disclaimed apart from the mark as shown on the drawing.
For Sandwiches.
Claims use since June 1, 1928.

Ser. No. 271,173. EAST COAST DISTRIBUTING CO., Miami, Fla. Filed Aug. 17, 1928.

SouthernRose



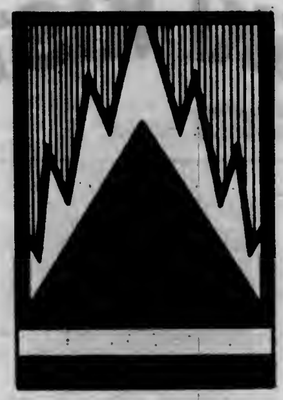
For Malt Extracts.
Claims use since May 1, 1927.

Ser. No. 271,227. ARNOLD BROS. PICKLE & PRESERVE CO., Green Bay, Wis. Filed Aug. 18, 1928.



The lines on the drawing are intended for shading purposes only. The picture appearing on the drawing is fanciful.
For Pickles.
Claims use since June 1, 1928.

Ser. No. 271,429. BUTLER CANDIES, INC., Elgin, Ill. Filed Aug. 23, 1928.



The drawing is lined for red.
For Candy.
Claims use since July 27, 1928.

Ser. No. 271,432. DAVENPORT-BROOKS CORPORATION, Fernandina, Fla. Filed Aug. 23, 1928.

TRI-SOM

For Canned Shrimp.
Claims use since about January, 1928.

Ser. No. 271,454. PILSEN PRODUCTS CO., Chicago, Ill. Filed Aug. 23, 1928.

OLYMPIA



For Malt Syrups.
Claims use since about July 16, 1928.

Ser. No. 271,706. NATIONAL TEA CO., Chicago, Ill. Filed Aug. 29, 1928.

National Maid

For Bakery Products, Particularly Bread, Toast, and Doughnuts.
Claims use since July 20, 1928, as to bread; since May 10, 1928, as to toast; and since July 24, 1928, as to doughnuts.

Ser. No. 271,922. THE CONEJOS COUNTY VEGETABLE GROWERS COOPERATIVE ASSOCIATION, La Jara, Colo. Filed Sept. 5, 1928.

SKI-KIST

For Fresh Vegetables.
Claims use since July 27, 1928.

Ser. No. 271,934. IRVINE VALENCIA GROWERS, Irvine, Calif. Filed Sept. 5, 1928.

SATIN

For Fresh Citrus Fruits.
Claims use since July 7, 1928.

Ser. No. 271,939. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Sept. 5, 1928.

Telavision

For Candy.
Claims use since Aug. 18, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 265,153. GREENE-GRIGNON GRANITE COMPANY, Duluth, Minn. Filed Apr. 20, 1928.

SENTINEL

For Memorials, Monuments, Grave Markers, Headstones, and Ledgers.
Claims use since about Apr. 5, 1928.

Ser. No. 270,576. WILLIAM S. EMLEY, Germantown, Philadelphia, Pa. Filed Aug. 4, 1928.

"CHALLENGE"

For Insect Traps.
Claims use since Mar. 8, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 16, 1928.

248,009. EMMENAGOGUE. HAROLD C. JENKINS, doing business as Jenkins Pharmical Co., Los Angeles, Calif. Filed May 8, 1928. Serial No. 266,086. PUBLISHED JULY 31, 1928. Class 6.

248,010. LAXATIVE COMPOUND. STERLING PRODUCTS (INCORPORATED), Wheeling, W. Va. Filed May 14, 1928. Serial No. 266,407. PUBLISHED AUGUST 7, 1928. Class 6.

248,011. TONIC IN LIQUID FORM FOR STIMULATING ENFEEBLED DIGESTION AND FAULTY NUTRITION, TREATING ANÆMIA, CHLOROSIS, AND FOR USE IN CONVALESCENCE FROM WASTING DISEASES OR THOSE OF LONG DURATION AND DURING RECOVERY FROM MAJOR SURGICAL OPERATIONS. SHARP & DOHME, INCORPORATED, Baltimore, Md. Filed May 14, 1928. Serial No. 266,405. PUBLISHED JULY 24, 1928. Class 6.

248,012. BUILDING CEMENT. MISSOURI PORTLAND CEMENT COMPANY, St. Louis, Mo. Filed May 14, 1928. Serial No. 266,388. PUBLISHED JULY 31, 1928. Class 12.

248,013. BUILDING CEMENT. MISSOURI PORTLAND CEMENT COMPANY, St. Louis, Mo. Filed May 14, 1928. Serial No. 266,387. PUBLISHED JULY 24, 1928. Class 12.

248,014. LIQUID FOR MAKING CEMENT WATERPROOF. MICHAEL C. PIERCE, New York, N. Y. Filed May 12, 1928. Serial No. 266,330. PUBLISHED JULY 24, 1928. Class 12.

248,015. HOSIERY. PECK & PECK, New York, N. Y. Filed May 12, 1928. Serial No. 266,328. PUBLISHED JULY 17, 1928. Class 39.

248,016. COAL. WEST VIRGINIA SOUTHERN COAL COMPANY, Huntington, W. Va. Filed May 11, 1928. Serial No. 266,289. PUBLISHED JULY 17, 1928. Class 1.

248,017. COAL, EXCEPT SMITHING COAL. PITTSBURGH COAL COMPANY, Pittsburgh, Pa. Filed May 11, 1928. Serial No. 266,266. PUBLISHED JULY 24, 1928. Class 1.

248,018. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS A SOFT DRINK AND SYRUP FOR MAKING THE SAME. PALE MOON COMPANY OF AMERICA, Philadelphia, Pa. Filed May 11, 1928. Serial No. 266,265. PUBLISHED AUGUST 7, 1928. Class 45.

248,019. EYEGLASSES AND SPECTACLES AND THE CONSTITUENT PARTS OF EYEGLASSES AND SPECTACLES. JAMES A. SWEENEY, Providence, R. I. Filed May 10, 1928. Serial No. 266,226. PUBLISHED AUGUST 7, 1928. Class 26.

248,020. PHARMACEUTICAL PREPARATION IN CAPSULE FORM FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, ARTHRITIS, NEURALGIA, AND MIGRAINE. ROBERT W. MIRGELER, doing business as The R. W. Mirgeler Co., Rockford, Ill. Filed May 10, 1928. Serial No. 266,211. PUBLISHED JULY 24, 1928. Class 6.

248,021. WRITING AND DRAWING INKS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany. Filed May 10, 1928. Serial No. 266,197. PUBLISHED AUGUST 7, 1928. Class 11.

248,022. WRITING AND DRAWING INKS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany. Filed May 10, 1928. Serial No. 266,196. PUBLISHED AUGUST 7, 1928. Class 11.

248,023. INKS FOR USE IN WRITING, STAMPING, DRAWING, PRINTING, LITHOGRAPHING, AND STENCILING. JAMES SCOTT ST. BARBE BAKER, London, England. Filed May 10, 1928. Serial No. 266,185. PUBLISHED AUGUST 7, 1928. Class 11.

248,024. PREPARATION FOR BLEACHING AND REMOVING STAINS—NAMELY, AN UNBLEACHED-COTTON BLEACH, STAINED-LINEN BLEACH, INK-STAIN REMOVER, BLOODSTAIN REMOVER, IODINE-STAIN REMOVER, TEA-STAIN REMOVER, FRUIT-STAIN REMOVER, OR COFFEE-STAIN REMOVER. THREE SISTERS, Philadelphia, Pa. Filed May 8, 1928. Serial No. 266,111. PUBLISHED JULY 31, 1928. Class 6.

248,025. HOSIERY. MCCALLUM HOSIERY COMPANY, Northampton, Mass. Filed May 8, 1928. Serial No. 266,089. PUBLISHED JULY 17, 1928. Class 39.

248,026. OIL FOR USE AS A TONIC AND MILD LAXATIVE. ERSKINE C. MASON, doing business as Mason's Pharmacy, Phoenix, Ariz. Filed May 8, 1928. Serial No. 266,088. PUBLISHED JULY 24, 1928. Class 6.

248,027. TANNED SHEEP AND GOAT SKINS. ANGUS, JORDAN & EXNER LIMITED, London, England. Filed May 8, 1928. Serial No. 266,073. PUBLISHED JULY 10, 1928. Class 1.

248,028. CERTAIN NAMED CONSTRUCTION MATERIALS. WICKWIRE SPENCER STEEL COMPANY, New York, N. Y. Filed May 7, 1928. Serial No. 266,068. PUBLISHED JULY 17, 1928. Class 12.

248,029. LAWN GRASS AND FIELD SEEDS. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed May 7, 1928. Serial No. 266,067. PUBLISHED JULY 17, 1928. Class 1.

248,030. LIST FILING CABINETS, CABINET SECTIONS, AND STANDS. SPEEDAUMAT ADDRESSING MACHINERY, INCORPORATED, Chicago, Ill. Filed May 7, 1928. Serial No. 266,053. PUBLISHED AUGUST 7, 1928. Class 32.

248,031. COAL. THE KALBAUGH COAL COMPANY, INC., Cumberland, Md. Filed May 7, 1928. Serial No. 266,032. PUBLISHED JULY 10, 1928. Class 1.

248,032. SHOE-TREES. MONTAGUE D. COHEN, New York, N. Y., assignor to Adolph Schadow, New York, N. Y. Filed May 7, 1928. Serial No. 266,022. PUBLISHED JULY 24, 1928. Class 50.

248,033. KNITTED AND TEXTILE UNDERWEAR AND HOSIERY FOR MEN, WOMEN, AND CHILDREN. AMERICAN TEXTILE, INC., Bay City, Mich. Filed May 7, 1928. Serial No. 266,011. PUBLISHED JULY 10, 1928. Class 39.

248,034. FRESH POTATOES. ALBERT MILLER & COMPANY, Chicago, Ill. Filed May 7, 1928. Serial No. 266,010. PUBLISHED AUGUST 7, 1928. Class 46.

248,035 SHEET MATERIAL MADE OF FIBRE AND RUBBER. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed May 5, 1928. Serial No. 265,997. PUBLISHED JULY 24, 1928. Class 50.

248,036. WOMEN'S AND MISSES' DRESSES. THE STYLE DRESS CO., INC., New York, N. Y.
Filed May 5, 1928. Serial No. 265,993 PUBLISHED JULY 10, 1928. Class 39.

248,037. WOMEN'S AND CHILDREN'S DRESSES AND FROCKS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed May 5, 1928. Serial No. 265,940. PUBLISHED JULY 10, 1928. Class 39.

248,038. BREAD, CAKE, AND PASTRY. JUSTIN E. AUBRY, doing business as Aubry's Bakery, Pittsfield, Mass.
Filed May 5, 1928. Serial No. 265,939. PUBLISHED AUGUST 7, 1928. Class 46.

248,039. PORTABLE HAND FIRE EXTINGUISHERS AND AUTOMATIC FIRE EXTINGUISHERS. BURNOYL HEATING CORPORATION, also doing business as Automatic Equipment Co., Providence, R. I.
Filed May 4, 1928. Serial No. 265,884. PUBLISHED AUGUST 7, 1928. Class 23.

248,040. CERTAIN NAMED CONSTRUCTION MATERIALS. MASONITE CORPORATION, Laurel, Miss.
Filed May 4, 1928. Serial No. 265,873. PUBLISHED JULY 17, 1928. Class 12.

248,041. MEN'S AND YOUNG MEN'S COATS, VESTS, TROUSERS, TOPCOATS, AND OVERCOATS. SHIREK & HIRSCH, New York, N. Y.
Filed May 3, 1928. Serial No. 265,861. PUBLISHED JULY 10, 1928. Class 39.

248,042. TILE. THE C. PARDEE WORKS, Perth Amboy, N. J., and Philadelphia, Pa.
Filed May 3, 1928. Serial No. 265,854. PUBLISHED JULY 10, 1928. Class 12.

248,043. WOMEN'S KNITTED UNDERWEAR. ISIDORE BEILEY, doing business as I. Beiley & Co., New York, N. Y.
Filed May 3, 1928. Serial No. 265,826. PUBLISHED JULY 10, 1928. Class 39.

248,044. TOOTH POWDER. SALTINE COMPANY, Kansas City, Mo.
Filed May 2, 1928. Serial No. 265,810. PUBLISHED JULY 24, 1928. Class 6.

248,045. MEN'S COLLARS AND DRESS AND NEGLIGEE SHIRTS. PHILLIPS JONES CORPORATION, New York, N. Y.
Filed May 1, 1928. Serial No. 265,738. PUBLISHED JULY 10, 1928. Class 39.

248,046. NECKTIES. WILMUR NECKWEAR CO., INC., New York, N. Y.
Filed April 30, 1928. Serial No. 265,710. PUBLISHED JULY 10, 1928. Class 39.

248,047. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS AND PAJAMAS. W. M. STEPPACHER & BRO., INC., Philadelphia, Pa.
Filed April 30, 1928. Serial No. 265,703. PUBLISHED JULY 10, 1928. Class 39.

248,048. ANTISEPTIC MEDICINAL PREPARATION APPLIED ON POULTRY TO PREVENT TOE PICKING AND RUMP PICKING, FEATHER PULLING, AND CONTAINING ELEMENTS BENEFICIAL TO THE SKIN OF POULTRY. CHAS. T. TRENGOVE, also doing business as Trengove's Poultry Farm, Portland, Oreg.
Filed May 14, 1928. Serial No. 266,408. PUBLISHED JULY 31, 1928. Class 6.

248,049. CANDY MINT LAXATIVE. ABRAHAM M. KARLINSKY, doing business as The Karlo Products Company, Cleveland, Ohio.
Filed February 2, 1928. Serial No. 261,063. PUBLISHED JULY 31, 1928. Class 6.

248,050. PORTABLE AUTOMOBILE TIRE AND TUBE REPAIR KITS. MOHAWK-MERRILL TIRE COMPANY, INC., St. Louis, Mo.
Filed February 4, 1928. Serial No. 261,202. PUBLISHED AUGUST 7, 1928. Class 35.

248,051. RAZORS. JEAN JORDEAU, INC., South Orange, N. J. and New York, N. Y.
Filed February 4, 1928. Serial No. 261,229. PUBLISHED AUGUST 7, 1928. Class 23.

248,052. CERTAIN NAMED BUILDING MATERIALS. SOCIETE ANONYME ETERNIT EMAILLE, Cappelle-au-Bois, Belgium.
Filed February 7, 1928. Serial No. 261,331. PUBLISHED JULY 17, 1928. Class 12.

248,053. PAPER GARMENT PROTECTOR AND CONTAINER. MILES BLUNT, doing business as Dresvelope Company of America, San Francisco, Calif., assignor to Dresvelope Corporation, San Francisco, Calif., a Corporation of California.
Filed February 10, 1928. Serial No. 261,482. PUBLISHED AUGUST 7, 1928. Class 2.

248,054. CIGARETTES. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C.
Filed February 27, 1928. Serial No. 262,287. PUBLISHED AUGUST 7, 1928. Class 17.

248,055. HEAVY SPAR IN POWDER AND PASTE FORM. GEWERKSCHAFT AUGUSTE, Leutnitz, near Rottenbach, Germany.
Filed March 2, 1928. Serial No. 262,515. PUBLISHED JULY 10, 1928. Class 1.

248,056. TREATED TEXTILE FABRICS. ARCHER RUBBER COMPANY, Milford, Mass.
Filed March 3, 1928. Serial No. 262,546. PUBLISHED JULY 24, 1928. Class 50.

248,057. METAL SHANKS FOR SHOES. FRANK G. DELSON, Brooklyn, N. Y.
Filed March 7, 1928. Serial No. 262,703. PUBLISHED AUGUST 7, 1928. Class 13.

248,058. MEN'S AND BOYS' WORK PANTS, DRESS PANTS, OVERALLS, OVERALL JACKETS, WORK SHIRTS, RIDING PANTS AND COATS. SEMINOLE MANUFACTURING CO., McAlester, Okla.
Filed March 7, 1928. Serial No. 262,773. PUBLISHED JULY 10, 1928. Class 39.

248,059. LOTION FOR THE SKIN AND COMPLEXION. A. S. HINDS CO., Bloomfield, N. J.
Filed March 9, 1928. Serial No. 262,849. PUBLISHED AUGUST 7, 1928. Class 6.

248,060. NONALCOHOLIC BEVERAGES MADE FROM CITRUS-FRUIT JUICES AND SOLD AS SOFT DRINKS. REGINALD JAMES STRANGE, doing business as Strangers Ltd., Southampton, England.
Filed March 10, 1928. Serial No. 262,975. PUBLISHED AUGUST 7, 1928. Class 45.

248,061. BLOOD PURIFIER. ANTHONY J. CALAJOE, doing business as Walcal Laboratories, Inc., New York, N. Y.
Filed March 13, 1928. Serial No. 263,070. PUBLISHED AUGUST 7, 1928. Class 6.

248,062. EGGS. ODUVALD L. D. UGHETTA, Somerville, N. J.
Filed March 14, 1928. Serial No. 263,186. PUBLISHED JULY 31, 1928. Class 46.

248,063. SELF-RISING WHEAT FLOUR. THE FARWELL & RHINES CO., INC., Watertown, N. Y.
Filed March 15, 1928. Serial No. 263,207. PUBLISHED AUGUST 7, 1928. Class 46.

248,064. ARTIFICIAL LEATHER, WATERPROOF COATED FABRIC, AND WATERPROOF CLOTH. BERNARD BRAND, doing business as J. Brand & Son, New York, N. Y.
Filed March 16, 1928. Serial No. 263,257. PUBLISHED JULY 10, 1928. Class 50.

248,065. PREPARED ROLL ROOFING. THE LOGAN-LONG COMPANY, Chicago, Ill.
Filed March 16, 1928. Serial No. 263,275. PUBLISHED JULY 24, 1928. Class 12.

248,066. TOILET LOTION AND CLEANSER FOR THE SKIN. PETROLEUM DERIVATIVES COMPANY, Montclair, N. J.
Filed March 17, 1928. Serial No. 263,345. PUBLISHED JULY 24, 1928. Class 6.

248,067. LEATHER. RICHARD YOUNG COMPANY, New York, N. Y.
Filed March 17, 1928. Serial No. 263,348. PUBLISHED JULY 3, 1928. Class 1.

248,068. LUMBER. HARRISON LUMBER COMPANY, Portland, Ore.
Filed March 19, 1928. Serial No. 263,392. PUBLISHED JULY 3, 1928. Class 12.

248,069. ANTISEPTIC DOUCHE. EDWARD J. MOORE SONS, INC., doing business as Sanger & Co., Long Island City, N. Y.
Filed May 23, 1928. Serial No. 266,872. PUBLISHED AUGUST 7, 1928. Class 6.

248,070. RADIOPAQUE DIAGNOSTIC PREPARATION. DAVIES, ROSE & CO., LTD., Boston, Mass.
Filed May 23, 1928. Serial No. 266,853. PUBLISHED JULY 24, 1928. Class 6.

248,071. ARTIFICIAL LEATHER. ATHOL MANUFACTURING COMPANY, Athol, Mass.
Filed May 23, 1928. Serial No. 266,847. PUBLISHED JULY 24, 1928. Class 50.

248,072. PEAT. ORIC O. WHITED, doing business as International Fibre Company, Minneapolis, Minn.
Filed May 22, 1928. Serial No. 266,845. PUBLISHED JULY 24, 1928. Class 1.

248,073. ARTIFICIAL FURS. HARRY BERGER, doing business as H. Berger & Co., New York, N. Y.
Filed May 22, 1928. Serial No. 266,782. PUBLISHED JULY 10, 1928. Class 1.

248,074. SULPHUR USED FOR BATHING PURPOSES. EDWIN HILL ANDERSON, New York, N. Y.
Filed May 22, 1928. Serial No. 266,779. PUBLISHED JULY 24, 1928. Class 6.

248,075. FERTILIZERS. EDWIN HILL ANDERSON, New York, N. Y.
Filed May 22, 1928. Serial No. 266,778. PUBLISHED AUGUST 7, 1928. Class 10.

248,076. SULPHUR USED FOR BATHING PURPOSES. EDWIN HILL ANDERSON, New York, N. Y.
Filed May 22, 1928. Serial No. 266,777. PUBLISHED JULY 24, 1928. Class 6.

248,077. DEMOUNTABLE BODIES FOR HAND TRUCKS. THE RE-BO COMPANY, INC., Syracuse, N. Y.
Filed May 21, 1928. Serial No. 266,752. PUBLISHED AUGUST 7, 1928. Class 19.

247,078. TABLETS FOR THE CORRECTION OF WEAKNESS, LOSS OF APPETITE AND RESULTING MALNUTRITION, CERTAIN FORMS OF ANEMIA, AND GENERAL RUN-DOWN CONDITION. LIVEROGEN COMPANY, Cincinnati, Ohio.
Filed May 21, 1928. Serial No. 266,737. PUBLISHED JULY 24, 1928. Class 6.

248,079. LEATHER. FRIED-LANG LEATHER CO., INC., New York, N. Y.
Filed May 21, 1928. Serial No. 266,726. PUBLISHED JULY 10, 1928. Class 1.

248,080. PREPARATION FOR THE TREATMENT OF PYORRHEA. CURTIS S. PHILLIPS, San Antonio, Tex.
Filed May 19, 1928. Serial No. 266,684. PUBLISHED JULY 24, 1928. Class 6.

248,081. PAJAMAS AND UNDERWEAR OF KNITTED AND TEXTILE FABRICS FOR USE BY MEN, WOMEN, AND CHILDREN. ROTHSCHILD & SONS, INCORPORATED, Kansas City, Mo.
Filed April 25, 1928. Serial No. 265,410. PUBLISHED JULY 10, 1928. Class 39.

248,082. KNITTED SWIMMING SUITS, BATHING SUITS, AND SWEATERS. MORRIS I. RIVKIN, doing business as West Point Knitwear Mills, Philadelphia, Pa.
Filed April 25, 1928. Serial No. 265,406. PUBLISHED JULY 10, 1928. Class 39.

248,083. CHLORINATED LIME. PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa.
Filed April 25, 1928. Serial No. 265,400. PUBLISHED JULY 17, 1928. Class 6.

248,084. MEN'S, BOYS', AND CHILDREN'S KNITTED UNDERWEAR, HOSIERY, AND CUT AND SEWED UNDERWEAR. J. JACOBY CO., Los Angeles, Calif.
Filed April 25, 1928. Serial No. 265,384. PUBLISHED JULY 10, 1928. Class 39.

248,085. MAYONNAISE, SALAD DRESSING; SANDWICH OR RELISH SPREAD, BEING A SWEET PICKLE AND PIMENTO RELISH HAVING MAYONNAISE DRESSING AS A BASE; AND THOUSAND ISLAND DRESSING. EL-FOOD CORPORATION, Dallas, Tex.
Filed April 25, 1928. Serial No. 265,369. PUBLISHED JULY 31, 1928. Class 46.

248,086. MEN'S, BOYS', AND CHILDREN'S OUTER GARMENTS CONSISTING OF COATS, VESTS, PANTS, OVERCOATS, RAINCOATS, DUSTERS, MACKINAWS, ULSTERS, SMOKING JACKETS, AUTOMOBILE COATS, BATH WRAPS, AND WOMEN'S AND CHILDREN'S OUTER GARMENTS CONSISTING OF COATS, BATH WRAPS, MACKINAWS, AND KNICKERS. COHEN, GOLDMAN & CO. INC., New York, N. Y.
Filed April 25, 1928. Serial No. 265,365. PUBLISHED JULY 10, 1928. Class 39.

248,087. ALTERATIVE TONIC. ANDERSON DRUG COMPANY, Fort Valley, Ga.
Filed April 25, 1928. Serial No. 265,355. PUBLISHED AUGUST 7, 1928. Class 6.

248,088. DRESSES FOR WOMEN AND CHILDREN. TRIPPE, BARKER & CO., New York, N. Y.
Filed April 24, 1928. Serial No. 265,349. PUBLISHED JULY 10, 1928. Class 39.

248,089. HOG-CONDITIONER GERMICIDE. CHARLES SPINHARNEY, Scotia, Wash.
Filed April 24, 1928. Serial No. 265,346. PUBLISHED AUGUST 7, 1928. Class 6.

248,090. HOSIERY. CARTER DRY GOODS CO., Louisville, Ky.
Filed April 24, 1928. Serial No. 265,319. PUBLISHED JULY 10, 1928. Class 39.

248,091. HOSIERY. WILBUR M. ALLING, doing business as W. M. Alling, New York, N. Y.
Filed April 24, 1928. Serial No. 265,310. PUBLISHED JULY 17, 1928. Class 39.

248,092. LINIMENT, MEDICAL PREPARATIONS FOR ANIMALS AND POULTRY, ETC. A. AARONS CO., INC., New Orleans, La.
Filed April 24, 1928. Serial No. 265,309. PUBLISHED AUGUST 7, 1928. Class 6.

248,093. FIELD SEEDS. RUDOLPH H. POINTS, doing business as Points' Seed Farms, Crosby, N. Dak.
Filed April 23, 1928. Serial No. 265,294. PUBLISHED JULY 10, 1928. Class 1.

248,094. ELECTROTYPE CUTS. EDGAR W. POHLIG, San Francisco, Calif.
Filed April 23, 1928. Serial No. 265,293. PUBLISHED JULY 10, 1928. Class 50.

248,095. PROPRIETARY MEDICINE AND A SALINE CATHARTIC HYDROGOGUE IN CHARACTER. OCCY-CRYSTINE CORPORATION, New York, N. Y.
Filed April 23, 1928. Serial No. 265,287. PUBLISHED AUGUST 7, 1928. Class 6.

248,096. READY-MIXED CONCRETE. GENERAL MATERIAL COMPANY, St. Louis, Mo.
Filed April 23, 1928. Serial No. 265,269. PUBLISHED JULY 10, 1928. Class 12.

248,097. INSECTICIDES. AUGUSTUS H. GARLAND, doing business as Bon Soir Bug Company, Opelousas, La.
Filed April 23, 1928. Serial No. 265,268. PUBLISHED AUGUST 7, 1928. Class 6.

248,098. MUFFLERS AND MEN'S NECKTIES. THE WALL-KELLER-MCKEE COMPANY, North Adams, Mass.
Filed April 21, 1928. Serial No. 265,245. PUBLISHED JULY 10, 1928. Class 39.

248,099. MEN'S AND BOYS' ROBES, DRESSING GOWNS, LOUNGE SUITS, SMOKING JACKETS, AND BEACH COATS. LEWIS-WISE CO. INC., New York, N. Y.
Filed April 21, 1928. Serial No. 265,221. PUBLISHED JULY 10, 1928. Class 39.

248,100. MEN'S AND BOYS' ROBES, DRESSING GOWNS, LOUNGE SUITS, SMOKING JACKETS, AND BEACH COATS. LEWIS-WISE CO. INC., New York, N. Y.
Filed April 21, 1928. Serial No. 265,220. PUBLISHED JULY 10, 1928. Class 39.

248,101. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 6, 1928. Serial No. 267,564. PUBLISHED JULY 24, 1928. Class 12.

248,102. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 6, 1928. Serial No. 267,563. PUBLISHED JULY 24, 1928. Class 12.

248,103. FABRIC BAGS FOR SHOES AND THE LIKE. FRANK C. FLINT, doing business as Knit Goods Specialty Company, Chicopee Falls, Mass.
Filed June 6, 1928. Serial No. 267,562. PUBLISHED AUGUST 7, 1928. Class 2.

248,104. TOPPING FOR ICE CREAM, CAKES, PASTRY, CONFECTIONS, AND OTHER FOODS. HERSHEY CHOCOLATE CORPORATION, Hershey, Pa.
Filed June 5, 1928. Serial No. 267,490. PUBLISHED JULY 31, 1928. Class 46.

248,105. FROSTED, SLICED, AND CRUSHED AND COATED FRUITS. NATHAN BUXBAUM, Brooklyn, N. Y.
Filed June 5, 1928. Serial No. 267,483. PUBLISHED AUGUST 7, 1928. Class 46.

248,106. ANTISEPTIC, ANALGESIC, ANTIPHLOGISTIC PREPARATION FOR THE TREATMENT OF INFECTIONS OF THE NASAL AND ACCESSORY SINUSES OF THE NOSE AND THROAT. EDWARD MORRISH, St. Louis, Mo.
Filed June 4, 1928. Serial No. 267,438. PUBLISHED JULY 24, 1928. Class 6.

248,107. RIVETS. DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa.
Filed June 4, 1928. Serial No. 267,432. PUBLISHED AUGUST 7, 1928. Class 13.

248,108. RIVETS. DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa.
Filed June 4, 1928. Serial No. 267,433. PUBLISHED AUGUST 7, 1928. Class 13.

248,109. TOOTH PASTE. THE LACTONA COMPANY, Chicago, Ill.
Filed June 4, 1928. Serial No. 267,429. PUBLISHED JULY 24, 1928. Class 6.

248,110. ASPHALT AND ASBESTOS FIBRE ROOFING COMPOUND. LOUIS MICHAEL, doing business as The Keystone Asphalt Products Company, Philadelphia, Pa.
Filed January 11, 1928. Serial No. 259,903. PUBLISHED JULY 17, 1928. Class 12.

248,111. METAL-SURFACE FINISH OR PLATING. MILWAUKEE FLUSH VALVE COMPANY, Milwaukee, Wis.
Filed January 5, 1928. Serial No. 259,744. PUBLISHED FEBRUARY 28, 1928. Class 6.

248,112. LEATHER, CHAMOIS LEATHER, AND SKINS. LA MAROQUINERIE NATIONALE, SOC. AME., Brussels, Belgium.
Filed December 30, 1927. Serial No. 259,498. PUBLISHED JULY 24, 1928. Class 1.

248,113. SURGICAL LUBRICANT. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed May 19, 1928. Serial No. 266,682. PUBLISHED JULY 24, 1928. Class 6.

248,114. ASTRINGENT TO THE ACCESSIBLE RESPIRATORY MUCOUS MEMBRANES. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed May 19, 1928. Serial No. 266,681. PUBLISHED JULY 24, 1928. Class 6.

248,115. LEATHERS. HARTMANN BROS. LEATHER CO., Boston, Mass.
Filed May 19, 1928. Serial No. 266,660. PUBLISHED JULY 10, 1928. Class 1.

248,116. CANNED GRAPEFRUIT. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla.
Filed May 19, 1928. Serial No. 266,654. PUBLISHED AUGUST 7, 1928. Class 46.

248,117. MEDICINES—NAMELY, MEDICINES FOR THE DISORDERS OF THE STOMACH, KIDNEYS, BOWELS, AND BLOOD. ACME PRODUCTS LIMITED, Winnipeg, Canada, and Detroit, Mich.
Filed May 19, 1928. Serial No. 266,637. PUBLISHED JULY 24, 1928. Class 6.

248,118. CHROME ORE. E. J. LAVINO AND COMPANY, Philadelphia, Pa.
Filed May 18, 1928. Serial No. 266,635. PUBLISHED JULY 24, 1928. Class 1.

248,119. SHAMPOO OIL. RELIABLE PRODUCTS CO., Chicago, Ill.
Filed April 28, 1928. Serial No. 265,564. PUBLISHED AUGUST 7, 1928. Class 6.

248,120. DOG MEDICINES—NAMELY, PREPARATION FOR DRESSING DOG'S SKIN AND COAT OF HAIR; AND A PREPARATION FOR THE HUMAN SCALP. ERNEST W. SHARLAND, doing business as Dromore Kennels Reg., Baltimore, Md.
Filed May 17, 1928. Serial No. 266,560. PUBLISHED AUGUST 7, 1928. Class 6.

248,121. RUNNING PANTS OR SHORTS. ROBERT REIS & CO., New York, N. Y.
Filed May 17, 1928. Serial No. 266,558. PUBLISHED JULY 17, 1928. Class 39.

248,122. BATHING SUITS. THE OCEAN BATHING SUIT CO., New York, N. Y.
Filed May 17, 1928. Serial No. 266,552. PUBLISHED JULY 17, 1928. Class 39.

248,123. PREPARATION FOR TREATING PAINS. JAMES P. HORGAN, doing business as H. and S. Products Co., Manchester, N. H.; William P. Sanborn administrator of said James P. Horgan, deceased.
Filed May 17, 1928. Serial No. 266,539. PUBLISHED JULY 24, 1928. Class 6.

248,124. MASON'S LIME. THE GIBSONBURG LIME PRODUCTS COMPANY, Gibsonburg, Ohio.
Filed May 17, 1928. Serial No. 266,527. PUBLISHED JULY 24, 1928. Class 12.

248,125. STRAWBERRY PLANTS. F. C. STAHELIN & SON, Bridgman, Mich.
Filed April 30, 1928. Serial No. 265,702. PUBLISHED JULY 10, 1928. Class 1.

248,126. CORN SUGAR. ARTHUR SHAW, St. Paul, Minn.
Filed April 30, 1928. Serial No. 265,697. PUBLISHED JULY 24, 1928. Class 46.

248,127. LADIES' AND MISSES' DRESSES. CHARLES HOFFMAN, New York, N. Y.
Filed April 30, 1928. Serial No. 265,645. PUBLISHED JULY 10, 1928. Class 39.

248,128. PLANTS AND FLOWERS. SOPHIE J. HILSCHER, doing business as A. J. Hilscher, Baltimore, Md.
Filed April 30, 1928. Serial No. 265,644. PUBLISHED JULY 17, 1928. Class 1.

248,129. CHEWING, SMOKING, SNUFFING TOBACCOS, CIGARS, AND CIGARETTES. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria.
Filed April 30, 1928. Serial No. 265,638. PUBLISHED AUGUST 7, 1928. Class 17.

248,130. CHEWING, SMOKING, SNUFFING TOBACCOS, CIGARS, AND CIGARETTES. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria.
Filed April 30, 1928. Serial No. 265,632. PUBLISHED AUGUST 7, 1928. Class 17.

248,131. CLOTHES FOR AIRMEN—NAMELY, OVERCOATS, WAISTCOATS, COATS, PANTS. AUGUSTE DELUBAC, Vals-Les-Bains, France.
Filed April 30, 1928. Serial No. 265,625. PUBLISHED JULY 10, 1928. Class 39.

248,132. EXPANDED-METAL LATH. THE BERGER MANUFACTURING COMPANY, Canton, Ohio.
Filed April 30, 1928. Serial No. 265,612. PUBLISHED JULY 24, 1928. Class 12.

248,133. BUTTER AND EGGS. JACOB J. SHEKTER, doing business as Beaver Produce Company, Portland, Oreg.
Filed April 28, 1928. Serial No. 265,578. PUBLISHED AUGUST 7, 1928. Class 46.

248,134. MEN'S, CHILDREN'S, AND LADIES' HOSIERY. THE HOSIERY MILLS CO., Chicago, Ill.
Filed April 28, 1928. Serial No. 265,546. PUBLISHED JULY 10, 1928. Class 39.

248,135. BLEACHED AND UNBLEACHED CHEMICAL PULP. CORNSTALK PRODUCTS COMPANY, INC., New York, N. Y.
Filed April 28, 1928. Serial No. 265,524. PUBLISHED JULY 31, 1928. Class 1.

248,136. CEMENT COMPOUND. THE WATER LOCK COMPANY, Cincinnati, Ohio.
Filed April 27, 1928. Serial No. 265,509. PUBLISHED JULY 17, 1928. Class 12.

248,137. CEMENT COMPOUND. THE WATER LOCK COMPANY, Cincinnati, Ohio.
Filed April 27, 1928. Serial No. 265,508. PUBLISHED JULY 17, 1928. Class 12.

248,138. LADIES', MISSES', AND CHILDREN'S HOSIERY. LARGMAN, GRAY COMPANY, Croydon, Pa., and New York, N. Y.
Filed April 27, 1928. Serial No. 265,482. PUBLISHED JULY 10, 1928. Class 39.

248,139. COATS, VESTS, TROUSERS, KNICKERBOCKERS, TOPCOATS AND OVERCOATS FOR MEN, YOUTHS, AND BOYS. J. SCHOENEMAN, INCORPORATED, Baltimore, Md.
Filed April 26, 1928. Serial No. 265,454. PUBLISHED JULY 10, 1928. Class 39.

248,140. MEN'S, BOYS', AND YOUNG MEN'S TOPCOATS, OVERCOATS, SPORT COATS, AND SUITS CONSISTING OF COATS, VESTS, PANTS, AND KNICKERBOCKERS. ROSE BROS., New York, N. Y.
Filed April 26, 1928. Serial No. 265,451. PUBLISHED JULY 10, 1928. Class 39.

248,141. COLD PATCH AND BITUMINOUS MATERIAL. GOOD ROADS COMPANY, INC., Upper Darby, Pa.
Filed April 26, 1928. Serial No. 265,432. PUBLISHED JULY 24, 1928. Class 12.

248,142. WASH FROCKS FOR WOMEN, MISSES, AND CHILDREN. MAX DUNN, doing business as M. Dunn & Co., Philadelphia, Pa.
Filed April 26, 1928. Serial No. 265,426. PUBLISHED JULY 10, 1928. Class 39.

248,143. TARPAULINS. GEORGE R. BURROWS, INC., New York, N. Y.
Filed April 26, 1928. Serial No. 265,423. PUBLISHED JULY 31, 1928. Class 50.

248,144. SHINGLES, LUMBER, SIDING, MOULDING, FLOORING, BAND STICKS, AND LATHS. CAPILANO TIMBER CO., LTD., North Vancouver, British Columbia, Canada.
Filed March 31, 1928. Serial No. 264,079. PUBLISHED JULY 24, 1928. Class 12.

248,145. MOTOR VEHICLES—NAMELY, TRUCKS, BUSSES, AUTOMOBILES, AND STRUCTURAL PARTS THEREOF. AMERICAN CAR AND FOUNDRY MOTORS COMPANY, New York, N. Y.
Filed March 30, 1928. Serial No. 264,003. PUBLISHED JULY 10, 1928. Class 19.

248,146. RUBBER SPONGES. WALDEMAR VERNET, New York, N. Y.
Filed March 29, 1928. Serial No. 263,996. PUBLISHED JULY 24, 1928. Class 1.

248,147. GRAPE JUICE. UNITED GRAPE PRODUCTS, INC., Buffalo, N. Y.
Filed March 29, 1928. Serial No. 263,995. PUBLISHED AUGUST 7, 1928. Class 45.

248,148. HAIR TONIC AND PREPARATION FOR TREATING THE HAIR AND SCALP. FRANZ SIGMUND, Stuttgart, Germany.
Filed March 29, 1928. Serial No. 263,972. PUBLISHED AUGUST 7, 1928. Class 6.

248,149. FRESH VEGETABLES—NAMELY, ASPARAGUS, DRY BEANS, GREEN BEANS, BEETS, CABBAGE, CARROTS, CAULIFLOWER, CELERY, CORN, CUCUMBERS, EGGPLANTS, GARLIC, LETTUCE, ONIONS, PEAS, IRISH POTATOES, SWEET POTATOES, HORSE-RADISH, PEPPERS, SPINACH, TOMATOES, RADISHES, PARSLEY, PARSNIPS, TURNIPS, PUMPKIN, RUTABAGA, SQUASH, OKRA, KALE AND SPROUTS. KENTUCKY VEGETABLE GROWERS ASSOCIATION, INC., Louisville, Ky.
Filed March 26, 1928. Serial No. 263,767. PUBLISHED AUGUST 7, 1928. Class 46.

248,150. MEN'S AND BOYS' SUITS, COATS, TROUSERS, VESTS, AND KNICKERBOCKERS. HAHNE & COMPANY, Newark, N. J.
Filed March 26, 1928. Serial No. 263,761. PUBLISHED JULY 10, 1928. Class 39.

248,151. ETHYL ALCOHOLIC LIQUORS—NAMELY, ETHYL ALCOHOL, PURE COMMERCIAL ALCOHOL, AND ANHYDROUS ALCOHOL. AMERICAN SOLVENTS & CHEMICAL CORPORATION, New York, N. Y.
Filed March 26, 1928. Serial No. 263,739. PUBLISHED AUGUST 7, 1928. Class 49.

248,152. MEN'S AND BOYS' READY-TO-WEAR COATS, VESTS, TROUSERS, AND OVERCOATS. THE HUB HENRY C. LYTTON & SONS, Chicago, Ill.
Filed March 23, 1928. Serial No. 263,660. PUBLISHED JULY 10, 1928. Class 39.

248,153. RAW SILK. GUNMAKEN RAW SILK CORPORATION OF AMERICA, New York, N. Y.
Filed March 22, 1928. Serial No. 263,603. PUBLISHED JULY 3, 1928. Class 1.

248,154. CANDY. MASON AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed June 1, 1928. Serial No. 267,308. PUBLISHED AUGUST 7, 1928. Class 46.

248,155. REFRIGERANTS OR LIQUID REFRIGERATING MEDIUMS USED IN EFFECTING REFRIGERATION. CARRIER ENGINEERING CORPORATION, Newark, N. J.
Filed June 1, 1928. Serial No. 267,296. PUBLISHED JULY 31, 1928. Class 6.

248,156. OINTMENTS FOR THE RELIEF OF EXTERNAL CANCER, PILES, BOILS, PIMPLES, ALSO FOR ASTHMA, BRONCHIAL DISEASES, SPINAL PAIN, STIFFNESS OF MUSCLES, AND PAIN OF JOINTS. BENEDICT KOVACH, doing business as Benedict Company, Los Angeles, Calif.
Filed May 31, 1928. Serial No. 267,262. PUBLISHED AUGUST 7, 1928. Class 6.

248,157. CANNED FISH—NAMELY, CANNED SALMON. KELLEY-CLARKE CO., Seattle, Wash.
Filed June 28, 1928. Serial No. 268,701. PUBLISHED AUGUST 7, 1928. Class 46.

248,158. MEDICINAL COMPOUND USED IN THE TREATMENT OF TUBERCULOSIS. DR. N. GRAHAM & CO., Indian Head, Saskatchewan, and Chatham, Ontario, Canada.
Filed March 20, 1928. Serial No. 263,464. PUBLISHED AUGUST 7, 1928. Class 6.

248,159. SUGAR. THE GREAT WESTERN SUGAR COMPANY, Denver, Colo.
Filed June 4, 1928. Serial No. 267,415. PUBLISHED JULY 31, 1928. Class 46.

248,160. FIXED DIRECTION MARKERS. AEROVANE UTILITIES CORPORATION, Wilmington, Del., and New York, N. Y.
Filed June 4, 1928. Serial No. 267,400. PUBLISHED JULY 24, 1928. Class 50.

248,161. MALT EXTRACT FOR MEDICINAL USE. M. A. KEENAN & SONS, New London, Conn.
Filed June 2, 1928. Serial No. 267,362. PUBLISHED AUGUST 7, 1928. Class 6.

248,162. ICE CREAM. THE MOXIE COMPANY, Boston, Mass.
Filed June 2, 1928. Serial No. 267,380. PUBLISHED JULY 31, 1928. Class 46.

248,163. PREPARATION USED IN THE TREATMENT OF RHEUMATISM, ARTHRITIS, NEURITIS, NEURALGIA, LUMBAGO, SCIATICA, AND GOUT. GAMADIN LABORATORIES, INC., Philadelphia, Pa.
Filed June 2, 1928. Serial No. 267,358. PUBLISHED JULY 24, 1928. Class 6.

248,164. PREPARATION USED IN THE TREATMENT OF RHEUMATISM, ARTHRITIS, NEURITIS, NEURALGIA, LUMBAGO, SCIATICA, GOUT, INFLUENZA, KIDNEY AND BLADDER DISORDERS, AND COLDS. THE FARASTAN COMPANY, Ardmore, Pa.
Filed June 2, 1928. Serial No. 267,355. PUBLISHED JULY 24, 1928. Class 6.

248,165. FLUME GATES. ANDERSEN FLUME GATE COMPANY, Redlands, Calif.
Filed June 2, 1928. Serial No. 267,332. PUBLISHED AUGUST 7, 1928. Class 13.

248,166. SAND, CLAY, AND STONE. NATIONAL STONE COMPANY, Kansas City, Mo.
Filed April 7, 1928. Serial No. 264,529. PUBLISHED JULY 10, 1928. Class 1.

248,167. MANTELPIECES. WM. H. JACKSON COMPANY, New York, N. Y.
Filed April 4, 1928. Serial No. 264,308. PUBLISHED JULY 24, 1928. Class 12.

248,168. COAL. GALLOWAY COAL COMPANY, Memphis, Tenn.
Filed April 3, 1928. Serial No. 264,226. PUBLISHED JULY 10, 1928. Class 1.

248,169. PHARMACEUTICAL PREPARATION FOR DISEASES OF THE RESPIRATORY ORGANS. FÉLIX ALFARO DIAZ, doing business as Laboratoires Filarysine, Santurce, P. R.
Filed April 3, 1928. Serial No. 264,223. PUBLISHED JULY 24, 1928. Class 6.

248,170. FACE POWDERS AND ROUGES. CHARLES A. BUCHER, Pittsburgh, Pa.
Filed April 3, 1928. Serial No. 264,221. PUBLISHED JULY 17, 1928. Class 6.

248,171. HAIR TONIC. PINAUD INCORPORATED, New York, N. Y.
Filed April 2, 1928. Serial No. 264,195. PUBLISHED JULY 17, 1928. Class 6.

248,172. HAIR TONIC. PINAUD INCORPORATED, New York, N. Y.
Filed April 2, 1928. Serial No. 264,193. PUBLISHED JULY 17, 1928. Class 6.

248,173. HAIR TONIC. PINAUD INCORPORATED, New York, N. Y.
Filed April 2, 1928. Serial No. 264,194. PUBLISHED JULY 17, 1928. Class 6.

248,174. METAL SHANKS FOR SHOES. FRANK G. DELBON, Brooklyn, N. Y.
Filed March 31, 1928. Serial No. 264,084. PUBLISHED AUGUST 7, 1928. Class 13.

248,175. BEDS, COUCHES, AND DAVENPORTS. MARSHALL & STEARNS CO., San Francisco, Calif.
Filed June 27, 1928. Serial No. 268,740. PUBLISHED AUGUST 7, 1928. Class 32.

248,176. CANDY. VONEIFF-DRAYER CO., Baltimore, Md.
Filed June 25, 1928. Serial No. 268,656. PUBLISHED AUGUST 7, 1928. Class 46.

248,177. CANNED FISH—NAMELY, CANNED SALMON. KELLEY-CLARKE CO., Seattle, Wash.
Filed June 25, 1928. Serial No. 268,615. PUBLISHED AUGUST 7, 1928. Class 46.

248,178. COFFEE. JEWEL TEA CO., INC., Chicago, Ill.
Filed June 25, 1928. Serial No. 268,614. PUBLISHED AUGUST 7, 1928. Class 46.

248,179. NONTOXIC ANTISEPTIC SOLUTION FOR EXTERNAL AND INTERNAL USE AS MOUTH WASH, GARGLE, LOTION, AND FOR CERTAIN STOMACHIC DISTURBANCES. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa.
Filed June 20, 1928. Serial No. 268,404. PUBLISHED AUGUST 7, 1928. Class 6.

248,180. PREPARATION FOR THE TREATMENT OF ANEMIA, LACK OF APPETITE, AND FOR INCREASING ELIMINATION AND ASSIMILATION FOLLOWING ACUTE DISEASES. COLE CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo.
Filed June 25, 1928. Serial No. 268,587. PUBLISHED AUGUST 7, 1928. Class 6.

248,181. CIGARS. JOSE FERNANDEZ, doing business as Jose Fernandez Cigar Co., Tampa, Fla.
Filed June 12, 1928. Serial No. 267,889. PUBLISHED AUGUST 7, 1928. Class 17.

248,182. A TOILET CREAM FOR HUMAN USE. WILLIAM ROSS CHAMBERLIN ASHBY, Woldingham, England.
Filed June 12, 1928. Serial No. 267,885. PUBLISHED JULY 31, 1928. Class 6.

248,183. FACE LOTION. HELEN SOBEL, doing business as Hart-So Mfg. Co., Oklahoma City, Okla.
Filed June 11, 1928. Serial No. 267,869. PUBLISHED JULY 31, 1928. Class 6.

248,184. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 16, 1928. Serial No. 268,180. PUBLISHED JULY 31, 1928. Class 46.

248,185. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 16, 1928. Serial No. 268,181. PUBLISHED JULY 31, 1928. Class 46.

248,186. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 16, 1928. Serial No. 268,182. PUBLISHED JULY 31, 1928. Class 46.

248,187. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 16, 1928. Serial No. 268,183. PUBLISHED JULY 31, 1928. Class 46.

248,188. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 16, 1928. Serial No. 268,184. PUBLISHED JULY 31, 1928. Class 46.

248,189. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 16, 1928. Serial No. 268,186. PUBLISHED JULY 31, 1928. Class 46.

248,190. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 16, 1928. Serial No. 268,187. PUBLISHED JULY 31, 1928. Class 46.

248,191. BARLEY-MALT SYRUP. PATRICK CAIRNS, doing business as Wyoming Malt and Hops Supply Co., Philadelphia, Pa.
Filed June 18, 1928. Serial No. 268,209. PUBLISHED JULY 31, 1928. Class 46.

248,192. ARTICLES MADE OF BASE METAL PLATED WITH CHROMIUM—TO WIT, KNIFE HANDLES, FORKS, AND SPOONS. MANNING, BOWMAN & CO., Meriden, Conn.
Filed June 18, 1928. Serial No. 268,231. PUBLISHED AUGUST 7, 1928. Class 28.

248,193. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 18, 1928. Serial No. 268,252. PUBLISHED JULY 31, 1928. Class 46.

248,194. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 18, 1928. Serial No. 268,253. PUBLISHED JULY 31, 1928. Class 46.

248,195. CHEMICAL REAGENTS IN GRANULAR FORM TO BE USED IN PRECIPITATING SILVER SALTS FROM HYPO AND FIXING BATHS EMPLOYED IN PHOTOGRAPHIC PROCESSES. COLORADO REFINING & RESEARCH CORP., Denver, Colo.
Filed June 19, 1928. Serial No. 268,271. PUBLISHED AUGUST 7, 1928. Class 6.

248,196. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 18, 1928. Serial No. 268,254. PUBLISHED JULY 31, 1928. Class 46.

248,197. OINTMENT FOR THE TREATMENT OF VARIOUS SKIN AFFECTIONS. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed June 18, 1928. Serial No. 268,258. PUBLISHED AUGUST 7, 1928. Class 6.

248,198. ASTRINGENTS, BLEACH CREAMS, COLD CREAMS, ETC. M. M. FLERON & SON, INC., doing business as Bercy's Laboratories, Trenton, N. J.
Filed June 19, 1928. Serial No. 268,278. PUBLISHED AUGUST 7, 1928. Class 6.

248,199. HAIR TONIC. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y.
Filed June 19, 1928. Serial No. 268,309. PUBLISHED AUGUST 7, 1928. Class 6.

248,200. ELECTRIC AUTOMOBILES. AUTOMOTIVE STANDARDS, INC., Newark, N. J.
Filed June 20, 1928. Serial No. 268,338. PUBLISHED AUGUST 7, 1928. Class 19.

248,201. CLEANING AND POLISHING PREPARATIONS FOR LEATHER AND METALS AND LEATHER-PRESERVING PREPARATIONS. GEBRÜDER KRONER, Berlin, Germany.
Filed June 22, 1927. Serial No. 250,924. PUBLISHED JUNE 12, 1928. Class 4.

248,202. CERTAIN NAMED CONSTRUCTION MATERIALS. NATIONAL VARNISH COMPANY'S CHEMICAL DIVISION, INC., Long Island City, N. Y.
Filed July 19, 1927. Serial No. 252,271. PUBLISHED JULY 10, 1928. Class 12.

248,203. BUTTER, OLEOMARGARINE, EGGS, PASTRY FLOUR, AND BREAD. THE GREENE-BABCOCK CO., Cleveland, Ohio, assignor to The Grocers-Producers Company, Cleveland, Ohio, a Corporation of Delaware.
Filed July 15, 1927. Serial No. 252,100. PUBLISHED JULY 24, 1928. Class 46.

248,204. CANDY. FANNY FARMER CANDY SHOPS, INC., Rochester, N. Y.
Filed June 28, 1927. Serial No. 251,223. PUBLISHED AUGUST 7, 1928. Class 46.

248,205. COAL. MITCHELL & DILLON COAL COMPANY, Chicago, Ill.
Filed May 10, 1927. Serial No. 248,782. PUBLISHED JULY 10, 1928. Class 1.

248,206. STORAGE TANKS, METAL DRUMS, AND WATER TOWERS. UNION TANK & PIPE CO., Los Angeles, Calif.
Filed April 15, 1927. Serial No. 247,504. PUBLISHED AUGUST 7, 1928. Class 2.

248,207. CANDY. EXCELLENT-GOODY SHOP, doing business as The Goody Shop, New York, N. Y.
Filed April 9, 1927. Serial No. 247,176. PUBLISHED AUGUST 7, 1928. Class 46.

248,208. COAL. CLOVER COAL COMPANY, INC., Philadelphia, Pa.
Filed March 17, 1927. Serial No. 245,894. PUBLISHED JULY 24, 1928. Class 1.

248,209. CARPET FELT. GRAHAM PAPER COMPANY, St. Louis, Mo.
Filed August 2, 1926. Serial No. 235,469. PUBLISHED JULY 10, 1928. Class 50.

248,210. PIES. PIE BAKERIES OF AMERICA, INC., Newark, N. J.
Filed April 10, 1926. Serial No. 229,982. PUBLISHED AUGUST 7, 1928. Class 46.

248,211. PLASTIC CEMENT IN WHICH ASBESTOS FIBER IS INCORPORATED. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed April 5, 1926. Serial No. 229,699. PUBLISHED JULY 10, 1928. Class 12.

248,212. BEAUTY PREPARATIONS—NAMELY, FACE POWDERS, TOILET WATER, FACE CREAMS, MASSAGE CREAMS, ROUGE, LIP STICK, EYEBROW PENCILS, SKIN LOTIONS, SACHETS, BATH SALTS, LAVENDER WATER, AND VERVEINE WATER; AND HAIR PREPARATIONS—NAMELY, HAIR TONICS, SHAMPOOS, POMADES, AND BRILLIANTINES, LIQUID AND CRYSTALLIZED. GODET INC., New York, N. Y.
Filed September 5, 1925. Serial No. 219,892. PUBLISHED NOVEMBER 3, 1925. Class 6.

248,213. METAL SHANKS FOR SHOES. FRANK G. DELBON, Brooklyn, N. Y.
Filed September 17, 1927. Serial No. 254,836. PUBLISHED AUGUST 7, 1928. Class 13.

248,214. CHARRED STICKS FOR PURIFICATION OF WATER AND OTHER LIQUIDS. JAMES L. WRIGHT, doing business as Charred Sticks Company, Atlanta, Ga.
Filed August 26, 1927. Serial No. 254,021. PUBLISHED JULY 17, 1928. Class 50.

248,215. DIES, JIGS, TAPS, SPOOL AND COIL WINDING MACHINES, WIRE-BUNDLING MACHINES, METAL-MOULDING-ROLLING MACHINES, CABLE AND ROPE MANUFACTURING MACHINES, AND PRESS STANDS FOR FEEDING STOCK TO PUNCH PRESSES. THE VIKING TOOL AND MACHINE CO., INC., Brooklyn, N. Y.
Filed August 25, 1927. Serial No. 253,968. PUBLISHED AUGUST 7, 1928. Class 23.

248,216. TABLETS FOR KIDNEY, BLADDER, AND PROSTATE TROUBLE AND FOR BACKACHE, LAME BACK, RHEUMATISM, AND CONGESTION OF THE KIDNEYS. HERBERT L. HAAG, doing business as Argray Drug Co., Indianapolis, Ind.
Filed February 1, 1928. Serial No. 260,999. PUBLISHED JULY 24, 1928. Class 6.

248,217. MANNEQUINS, STATUETTES, MODELS, FIGURES, AND PARTS THEREOF. CURTIS-LEGER FIXTURE COMPANY, Chicago, Ill.
Filed January 30, 1928. Serial No. 260,879. PUBLISHED JULY 10, 1928. Class 50.

248,218. LADIES' HOSIERY. SMITH, KIRKPATRICK & CO., INC., New York, N. Y.
Filed January 28, 1928. Serial No. 260,855. PUBLISHED JULY 10, 1928. Class 39.

248,219. COAL. THE DELAWARE, LACKAWANNA & WESTERN COAL COMPANY, New York, N. Y.
Filed January 28, 1928. Serial No. 260,812. PUBLISHED JUNE 5, 1928. Class 1.

248,220. FOLDING CHAIRS. TUCKER DUCK AND RUBBER COMPANY, Fort Smith, Ark.
Filed January 24, 1928. Serial No. 260,600. PUBLISHED AUGUST 7, 1928. Class 32.

248,221. FIBER BOARDS AND IRREGULAR SHAPES PRESSED FROM MIXTURES OF VARIOUS FIBERS AND BONDING MATERIALS. FIBREFRAKS INCORPORATED, Lockport and New York, N. Y.
Filed January 24, 1928. Serial No. 260,561. PUBLISHED MAY 22, 1928. Class 12.

248,222. MEDICATED OILS AND OINTMENTS FOR USE INTERNALLY TO SUPPLY AN AUGMENTED AMOUNT OF OXYGEN TO THE BODY TISSUES AND FOR USE EXTERNALLY AS AN ANTISEPTIC. JAMES MCKEE, doing business as The O-Three Laboratory, Media, Pa.
Filed January 21, 1928. Serial No. 260,455. PUBLISHED JULY 24, 1928. Class 6.

248,223. ADVERTISING DISPLAYS. BEN H. HAZEN Co., Portland, Oreg.
Filed January 19, 1928. Serial No. 260,331. PUBLISHED JULY 17, 1928. Class 50.

248,224. MEN'S DRESS AND NEGLIGEE SHIRTS. JACOB MILLER'S SONS Co., Philadelphia, Pa.
Filed January 18, 1928. Serial No. 260,285. PUBLISHED JULY 10, 1928. Class 39.

248,225. BOOTS AND SHOES. ANDRÉ PERUGIA, Paris, France.
Filed January 14, 1928. Serial No. 260,138. PUBLISHED JULY 17, 1928. Class 39.

248,226. PORTABLE VACUUM-CUP BRACKETS FOR HANGERS, MIRRORS, AND SHELVES. SUPER NOVELTY COMPANY, New York, N. Y., assignor to Super Novelty Company, Inc., New York, N. Y., a Corporation of New York.
Filed January 13, 1928. Serial No. 260,054. PUBLISHED AUGUST 7, 1928. Class 13.

248,227. ANIMAL TRAPS. ANIMAL TRAP COMPANY OF AMERICA, Lititz, Pa.
Filed January 13, 1928. Serial No. 260,041. PUBLISHED JULY 10, 1928. Class 50.

248,228. FINISHING LIME. THE GIBSONBURG LIME PRODUCTS COMPANY, Gibsonburg, Ohio.
Filed May 17, 1928. Serial No. 266,526. PUBLISHED JULY 24, 1928. Class 12.

248,229. AQUARIUMS MADE OF SLUSH METAL COMBINED WITH GLASS AND FLOWER HOLDERS MADE OF LIKE MATERIAL WITH OR WITHOUT REMOVABLE FLOWER VASES OF GLASS OR POTTERY. FRANKART INC., New York, N. Y.
Filed May 17, 1928. Serial No. 266,522. PUBLISHED AUGUST 7, 1928. Class 2.

248,230. HAIR-COMBING LIQUID. EDWARD WESLEY & COMPANY, Cincinnati, Ohio.
Filed May 16, 1928. Serial No. 266,500. PUBLISHED JULY 24, 1928. Class 6.

248,231. COMBUSTIBLE PACKAGE CONTAINING A CHEMICAL FOR COLORING THE FLAMES IN A FIREPLACE. CARL V. POHLSON, Pawtucket, R. I.
Filed May 16, 1928. Serial No. 266,479. PUBLISHED JULY 24, 1928. Class 6.

248,232. SHAMPOO. VINCENT MONACO, doing business as Foam-Olio Company, Jersey City, N. J.
Filed May 15, 1928. Serial No. 266,434. PUBLISHED JULY 24, 1928. Class 6.

248,233. NONALCOHOLIC, NONCEREAL, MALTLESS CARBONATED BEVERAGE SOLD AS A SOFT DRINK. KENTUCKY NIP CORPORATION, New York, N. Y.
Filed May 15, 1928. Serial No. 266,431. PUBLISHED AUGUST 7, 1928. Class 45.

248,234. NONALCOHOLIC, NONCEREAL, MALTLESS CARBONATED BEVERAGE SOLD AS A SOFT DRINK. KENTUCKY NIP CORPORATION, New York, N. Y.
Filed May 15, 1928. Serial No. 266,430. PUBLISHED AUGUST 7, 1928. Class 45.

248,235. GLARE SHIELDS FOR AUTOMOBILE WINDSHIELDS. FACE-A-LITE MANUFACTURING COMPANY, INCORPORATED, Mitchell, S. Dak.
Filed May 15, 1928. Serial No. 26,420. PUBLISHED AUGUST 7, 1928. Class 19.

248,236. MEN'S AND BOYS' ROBES, DRESSING GOWNS, LOUNGE SUITS, SMOKING JACKETS, AND BEACH COATS. LEWIS-WISE CO. INC., New York, N. Y.
Filed April 21, 1928. Serial No. 265,219. PUBLISHED JULY 10, 1928. Class 39.

248,237. DRY STUCCO. MAYFLOWER STUCCO COMPANY, Plymouth Meeting, Pa.
Filed April 20, 1928. Serial No. 265,161. PUBLISHED JULY 10, 1928. Class 12.

248,238. ROAST BEEF, CANNED SEA FOODS, TAPIOCA, ETC. GRIGGS, COOPER & COMPANY, St. Paul, Minn.
Filed April 20, 1928. Serial No. 265,155. PUBLISHED JULY 17, 1928. Class 46.

248,239. INCENSE. KENNETH B. H. ADOLPHUS, Chicago, Ill.
Filed April 20, 1928. Serial No. 265,132. PUBLISHED JULY 24, 1928. Class 6.

248,240. GENERAL TONIC FOR THE TREATMENT OF DISEASES OF HOGS AND POULTRY AND PARTICULARLY WORMS AND FLU. SIMON R. ZIMMERMAN, doing business as Simon R. Zimmerman Co., Savannah, Mo.
Filed April 18, 1928. Serial No. 265,079. PUBLISHED JULY 24, 1928. Class 6.

248,241. CERTAIN NAMED CONSTRUCTION MATERIALS. SCHUMACHER WALL BOARD CORPORATION, Los Angeles, Calif.
Filed April 18, 1928. Serial No. 265,070. PUBLISHED JULY 24, 1928. Class 12.

248,242. WOMEN'S AND MISSES' DRESSES MADE OF SILK, SILK AND COTTON MIXTURE, AND COTTON. PILLER BROS. & HERSCHEL, INC., New York, N. Y.
Filed April 18, 1928. Serial No. 265,066. PUBLISHED JULY 10, 1928. Class 39.

248,243. KENNEL BEDDING AND SAWDUST. GEORGE C. BROWN & COMPANY, Memphis, Tenn.
Filed April 18, 1928. Serial No. 265,032. PUBLISHED JULY 10, 1928. Class 1.

248,244. BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS, BLOUSES, PLAY SUITS, TROUSERS, COATS, SPORT COATS, JACKETS, BATH ROBES, AND BEACH COATS MADE OF KNITTED OR WOVEN TEXTILE FABRICS. ELY & WALKER DRY GOODS CO., St. Louis, Mo.
Filed April 17, 1928. Serial No. 264,972. PUBLISHED JULY 10, 1928. Class 39.

248,245. RUBBER SHEETING (BED AND CRIB SHEETING). J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 16, 1928. Serial No. 264,910. PUBLISHED JULY 10, 1928. Class 50.

248,246. SEED POTATOES. LARAMIE COUNTY CERTIFIED SEED POTATO GROWERS ASSOCIATION, Egbert, Wyo.
Filed April 16, 1928. Serial No. 264,893. PUBLISHED JULY 17, 1928. Class 1.

248,247. FACE CREAMS, LOTIONS, ASTRINGENTS, ETC. PRIMROSE HOUSE, INC., Dover Del., and New York, N. Y.
Filed April 14, 1928. Serial No. 264,845. PUBLISHED AUGUST 7, 1928. Class 6.

248,248. PIES. GOODRICH BAKERIES, INCORPORATED, Mount Vernon, N. Y.
Filed April 16, 1928. Serial No. 264,880. PUBLISHED AUGUST 7, 1928. Class 46.

248,249. FLOWERS. J. FREDERICK LEARY, Philadelphia, Pa.
Filed April 13, 1928. Serial No. 264,761. PUBLISHED JULY 24, 1928. Class 1.

248,250. PREPARATION FOR NEUTRALIZING THE ODOR OF NICOTINE AND OVERCOMING TOBACCO BREATH ODORS AND AFTERTASTE OF SMOKING. BIO-LABRO PRODUCTS, INC., New York, N. Y.
Filed April 13, 1928. Serial No. 264,750. PUBLISHED AUGUST 7, 1928. Class 6.

248,251. PREPARATION TO ALLAY IRRITATION OF THE THROAT DUE TO COMMON COUGHS. BIO-LABRO PRODUCTS, INC., New York, N. Y.
Filed April 13, 1928. Serial No. 264,749. PUBLISHED AUGUST 7, 1928. Class 6.

248,252. WALNUT BORDERS, STRIPS, AND FLOORING OF WOOD. ROBERT E. CROTTY, Newark, N. J.
Filed April 12, 1928. Serial No. 264,716. PUBLISHED JULY 31, 1928. Class 12.

248,253. MEDICINAL RELIEF FOR RHEUMATISM, LUMBAGO, SCIATICA, AND NEURITIS. MITEX PRODUCTS CO., Portland, Oreg.
Filed April 11, 1928. Serial No. 264,694. PUBLISHED JULY 24, 1928. Class 6.

248,254. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. MAGNET KNITTING MILLS, Clinton, Tenn.
Filed April 11, 1928. Serial No. 264,692. PUBLISHED JULY 17, 1928. Class 39.

248,255. COTTON. AUERBACH COMPANY, Salt Lake City, Utah.
Filed April 9, 1928. Serial No. 264,550. PUBLISHED JULY 17, 1928. Class 1.

248,256. CANNED FISH—NAMELY, CANNED SALMON. KELLEY-CLARKE CO., Seattle, Wash.
Filed June 28, 1928. Serial No. 268,790. PUBLISHED AUGUST 7, 1928. Class 46.

248,257. CANNED FISH—NAMELY, CANNED SALMON. KELLEY-CLARKE CO., Seattle, Wash.
Filed June 28, 1928. Serial No. 268,789. PUBLISHED AUGUST 7, 1928. Class 46.

248,258. TOOTH PASTES. CAVENDISH CHEMICAL CORP., New York, N. Y.
Filed June 28, 1928. Serial No. 268,771. PUBLISHED AUGUST 7, 1928. Class 6.

248,259. SOLUTION OF SALTS OF IRIDIUM FOR THE TREATMENT OF RHEUMATISM AND OTHER BLOOD DISEASES. P. H. POTTER & SONS, INC., New York, N. Y.
Filed June 11, 1928. Serial No. 267,855. PUBLISHED JULY 24, 1928. Class 6.

248,260. CANNED VEGETABLES. OTOE FOOD PRODUCTS Co., also doing business as Hamburg Canning Company, Nebraska City, Nebr.
Filed June 9, 1928. Serial No. 267,787. PUBLISHED AUGUST 7, 1928. Class 46.

248,261. ALTERATIVES, ANALGESICS, ANAPHRODISIACS, ETC. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.
Filed June 9, 1928. Serial No. 267,785. PUBLISHED JULY 24, 1928. Class 6.

248,262. TENTS, TARPAULINS, AND WATERPROOFED FABRICS. FULTON BAG & COTTON MILLS, Atlanta, Ga.
Filed June 9, 1928. Serial No. 267,763. PUBLISHED JULY 31, 1928. Class 50.

248,263. MEDICINAL TONIC USED AS A TREATMENT DESIGNED TO BUILD UP DEFICIENT METABOLISM. RESTORE THE HEMOGLOBIN OF THE BLOOD TO NORMAL, STIMULATE THE ACTION OF THE LIVER AND GALL BLADDER, AND THEREBY IMPROVE NUTRITION. THE COOPER LABORATORIES, INC., Dayton, Ohio.
Filed June 9, 1928. Serial No. 267,757. PUBLISHED JULY 24, 1928. Class 6.

248,264. HAND LOTION. LAILAFLEUR, INC., New York, N. Y.
Filed June 8, 1928. Serial No. 267,711. PUBLISHED AUGUST 7, 1928. Class 6.

248,265. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 8, 1928. Serial No. 267,703. PUBLISHED JULY 24, 1928. Class 12.

248,266. EMBALMING FLUID. STERIL MANUFACTURING COMPANY, Omaha, Nebr.
Filed June 7, 1928. Serial No. 267,673. PUBLISHED AUGUST 7, 1928. Class 6.

248,267. PREPARATION FOR THE TREATMENT OF SKIN DISEASES. ANGELINA SACCO, New Orleans, La.
Filed June 7, 1928. Serial No. 267,670. PUBLISHED JULY 24, 1928. Class 6.

248,268. SALT. THE OHIO SALT COMPANY, Wadsworth, Ohio.
Filed June 7, 1928. Serial No. 267,663. PUBLISHED JULY 17, 1928. Class 6.

248,269. CARD CLOTHING AND HAND CARDS FOR CARDING FOR USE IN THE TEXTILE INDUSTRY. THE STANDARD CARD CLOTHING COMPANY, Stafford Springs, Conn.
Filed June 6, 1928. Serial No. 267,614. PUBLISHED AUGUST 7, 1928. Class 23.

248,270. MALT SYRUP. LEROY G. REINSHAGEN, doing business as Roy's Distributing Company, Cincinnati, Ohio.
Filed June 6, 1928. Serial No. 267,604. PUBLISHED JULY 31, 1928. Class 46.

248,271. LAXATIVE. HENRY M. LANDAU, Boston, Mass.
Filed June 6, 1928. Serial No. 267,591. PUBLISHED JULY 24, 1928. Class 6.

248,272. PREPARATION USED IN THE TREATMENT OF NEURALGIA AND AS A FEBRIFUGE. GEORGES LOUIS GUILLEVIC, Paris, France.
Filed June 6, 1928. Serial No. 267,575. PUBLISHED JULY 24, 1928. Class 6.

248,273. HAIR TONIC. ISRAEL O. GOLDSTEIN, doing business as Goldstein Laboratories, Philadelphia, Pa.
Filed June 6, 1928. Serial No. 267,574. PUBLISHED JULY 24, 1928. Class 6.

248,274. WEATHER STRIPS OF FLEXIBLE MATERIAL. FREYDBERG BROTHERS, INCORPORATED, New York, N. Y.
Filed June 6, 1928. Serial No. 267,572. PUBLISHED JULY 24, 1928. Class 12.

248,275. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 6, 1928. Serial No. 267,571. PUBLISHED JULY 31, 1928. Class 12.

248,276. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 6, 1928. Serial No. 267,569. PUBLISHED JULY 24, 1928. Class 12.

248,277. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 6, 1928. Serial No. 267,568. PUBLISHED JULY 31, 1928. Class 12.

248,278. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 6, 1928. Serial No. 267,566. PUBLISHED JULY 31, 1928. Class 12.

248,279. CANNED BEEF, PORK, AND CHICKEN. NICHIRO GYOGYO KABUSHIKI KAISHA, Tokyo, Japan.
Filed December 21, 1927. Serial No. 259,209. PUBLISHED JULY 31, 1928. Class 46.

248,280. THERAPEUTIC BATH COMPOUNDS FOR THE ALLEVIATION OF RHEUMATISM, PARALYSIS, KIDNEY AND SPINE DISORDERS, NEURITIS, AND SIMILAR GENERAL BODY DISEASES. CHEMICAL SURGERY CO., Oakland, Calif.
Filed December 12, 1927. Serial No. 258,796. PUBLISHED JULY 31, 1928. Class 6.

248,281. LIQUID FUEL IN WHICH ALCOHOL AND THE LIKE IS THE BASE. GAS GRAIN TREATER CO., Portland, Oreg.
Filed December 6, 1927. Serial No. 258,523. PUBLISHED JULY 24, 1928. Class 6.

248,282. TOOLS—NAMELY, LATHES, PLANING MACHINES, GRINDERS, DRILLERS, BRACES, PINCERS, SCREW DRIVERS, CHISELS, AND SIMILAR TOOLS. MARCEL SCHERRER, Courbevoie, France.
Filed November 28, 1927. Serial No. 258,138. PUBLISHED AUGUST 7, 1928. Class 23.

248,283. JOINT PASTE. WALTER R. THURSTON, doing business as Norm Manufacturing Co., Los Angeles, Calif.
Filed November 16, 1927. Serial No. 257,645. PUBLISHED JULY 3, 1928. Class 12.

248,284. LAXATIVE. ASSOCIATED LABORATORIES, INC., doing business as Seedol Pharmaceutical Laboratories, New York, N. Y.
Filed November 12, 1927. Serial No. 257,503. PUBLISHED JANUARY 10, 1928. Class 6.

248,285. STOMACH POWDER. BOSTON WILSON, doing business as Wilson's Stomach Powder Manufacturing Co., Oklahoma City, Okla.
Filed November 12, 1927. Serial No. 257,496. PUBLISHED AUGUST 7, 1928. Class 6.

248,286. TEXTILE FABRICS OF COTTON COATED WITH AN ADHESIVE. HORACE M. EATON, Lynn, Mass.
Filed November 11, 1927. Serial No. 257,405. PUBLISHED MARCH 20, 1928. Class 50.

248,287. LIME PLASTER. THE NATIONAL LIME & STONE COMPANY, Findlay, Ohio.
Filed November 5, 1927. Serial No. 257,112. PUBLISHED JULY 10, 1928. Class 12.

248,288. COMPOSITION ROOFING. HARRY H. HONIGBAUM, doing business as The Rubber Roofing Co., New York, N. Y.
Filed November 4, 1927. Serial No. 257,066. PUBLISHED JULY 17, 1928. Class 12.

248,289. CANDY-COVERED CHEWING GUM. FRANK H. FLEER CORPORATION, Philadelphia, Pa.
Filed October 26, 1927. Serial No. 256,619. PUBLISHED AUGUST 7, 1928. Class 46.

248,290. TOOTH POWDER. JAMES A. PETTIFER, Seattle, Wash.
Filed October 19, 1927. Serial No. 256,301. PUBLISHED AUGUST 7, 1928. Class 6.

248,291. GREEN COFFEE. BALFOUR, WILLIAMSON & CO., New York, N. Y.
Filed October 19, 1927. Serial No. 256,277. PUBLISHED AUGUST 7, 1928. Class 46.

248,292. METAL GUTTER AND MANGER DRAINS, METAL GATES, HARNESS AND SADDLE HOOKS, STANDARD AND SPECIAL METAL COW STALLS, METAL STALL FRAMES; METAL CALF, COW, BULL, AND HOG PENS; METAL CATTLE STANCHIONS, FEEDING HAYRACKS, METAL HORSE STALLS, PRESSURE AND GRAVITY ANIMAL DRINKING CUPS, AND POULTRY-ROOST SUPPORTS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed October 17, 1927. Serial No. 256,193. PUBLISHED AUGUST 7, 1928. Class 13.

248,293. OATS USED AS FEED FOR STOCK. NORRIS GRAIN COMPANY, Chicago, Ill.
Filed October 10, 1927. Serial No. 255,860. PUBLISHED AUGUST 7, 1928. Class 46.

248,294. FRESH CITRUS FRUITS. MOUNTAIN VIEW FRUIT ASSOCIATION, Upland, Calif.
Filed October 5, 1927. Serial No. 255,665. PUBLISHED AUGUST 7, 1928. Class 46.

248,295. FIELD, FARM, AND GARDEN SEEDS. FARMER SEED & NURSERY CO., Faribault, Minn.
Filed September 24, 1927. Serial No. 255,168. PUBLISHED NOVEMBER 29, 1927. Class 1.

248,296. THERAPEUTIC, NONTOXIC, NONIRRITANT, NONPOISONOUS LIQUID CONTAINING NO ALCOHOL, NO NARCOTICS, AND NO CATHARTICS FOR THE TREATMENT OF THE GASTROINTESTINAL TRACT. GENERAL RESEARCH LABORATORIES, INC., Sebring, Fla.
Filed May 31, 1928. Serial No. 267,250. PUBLISHED JULY 31, 1928. Class 6.

248,297. COUGH DROPS. ANTHONY J. BOCKHOLD, doing business as M. O. Chemical Co., Oregon City, Oreg.
Filed May 31, 1928. Serial No. 267,231. PUBLISHED JULY 24, 1928. Class 6.

248,298. TIRE-VULCANIZING MACHINE. THE AKRON TYRWELDER COMPANY, Akron, Ohio.
Filed May 31, 1928. Serial No. 267,221. PUBLISHED AUGUST 7, 1928. Class 23.

248,299. ARTIFICIAL AND SYNTHETICAL PERFUMES, ESSENTIAL OILS. STE AME M. NAEF & CIE., Geneva, Switzerland.
Filed May 29, 1928. Serial No. 267,216. PUBLISHED JULY 31, 1928. Class 6.

248,300. ARTIFICIAL AND SYNTHETICAL PERFUMES, ESSENTIAL OILS. STE AME M. NAEF & CIE., Geneva, Switzerland.
Filed May 29, 1928. Serial No. 267,215. PUBLISHED JULY 31, 1928. Class 6.

248,301. COAL. W. N. JENNINGS, doing business as Central Coal and Supply Company, Moberly, Mo.
Filed May 29, 1928. Serial No. 267,198. PUBLISHED JULY 24, 1928. Class 1.

248,302. CELLULOSE-ACETATE YARNS, THREADS, AND FILAMENTS. DU PONT RAYON COMPANY, Buffalo, N. Y.
Filed May 29, 1928. Serial No. 267,187. PUBLISHED JULY 17, 1928. Class 43.

248,303. KNITTED AND WOVEN PIECE GOODS OF CELLULOSE ACETATE YARNS, THREADS AND FILAMENTS. DU PONT RAYON COMPANY, Buffalo, N. Y.
Filed May 29, 1928. Serial No. 267,186. PUBLISHED JULY 17, 1928. Class 42.

248,304. MEDALS, ART BRONZES AND METAL PLATES. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,161. PUBLISHED JULY 24, 1928. Class 50.

248,305. SPRAYERS AND SPRAYING ATTACHMENTS FOR HOUSEHOLD, INDUSTRIAL, AND AGRICULTURAL USES. HUDSON MANUFACTURING CO., Minneapolis, Minn.
Filed May 28, 1928. Serial No. 267,123. PUBLISHED AUGUST 7, 1928. Class 23.

248,306. SPRAYERS AND SPRAYING ATTACHMENTS FOR HOUSEHOLD AND INDUSTRIAL USES. HUDSON MANUFACTURING CO., Minneapolis, Minn.
Filed May 28, 1928. Serial No. 267,122. PUBLISHED AUGUST 7, 1928. Class 23.

248,307. WATERPROOFING COMPOUND IN LIQUID FORM FOR PROTECTING SURFACES OF STRAW, TEXTILES, LEATHER, AND THE LIKE. RAINIZED PROCESS LTD., New York, N. Y.
Filed May 26, 1928. Serial No. 267,079. PUBLISHED JULY 24, 1928. Class 6.

248,308. CHLORHYDRATE OF METAAMINO-STOVAINE. LES ETABLISSEMENTS POULENC FRERES, Paris, France.
Filed May 26, 1928. Serial No. 267,066. PUBLISHED JULY 24, 1928. Class 6.

248,309. CHEMICAL PRODUCT FOR DENATURING ALCOHOL. KAY LABORATORIES, INC., West Nyack, N. Y.
Filed May 26, 1928. Serial No. 267,061. PUBLISHED AUGUST 7, 1928. Class 6.

248,310. CHEMICAL PRODUCT FOR DENATURING ALCOHOL. KAY LABORATORIES, INC., West Nyack, N. Y.
Filed May 26, 1928. Serial No. 267,060. PUBLISHED AUGUST 7, 1928. Class 6.

248,311. CHAMOIS. THE GULF & WEST INDIES CO., INC., New York, N. Y.
Filed May 26, 1928. Serial No. 267,045. PUBLISHED JULY 31, 1928. Class 3.

248,312. FLUID FOR CIGARETTE LIGHTERS. WALGREEN CO., also doing business as Valentine Laboratories, Incorporated, Chicago, Ill.
Filed May 25, 1928. Serial No. 267,019. PUBLISHED AUGUST 7, 1928. Class 6.

248,313. WOMEN'S, MISSES', AND CHILDREN'S DRESSES. FREDERICK LOESER AND CO., Brooklyn, N. Y.
Filed May 25, 1928. Serial No. 267,002. PUBLISHED JULY 17, 1928. Class 39.

248,314. LADDERS. HILOW MANUFACTURING COMPANY INC., Wichita Falls, Tex.
Filed May 25, 1928. Serial No. 266,994. PUBLISHED JULY 24, 1928. Class 50.

248,315. COUGH MIXTURE. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa.
Filed May 25, 1928. Serial No. 267,021. PUBLISHED AUGUST 7, 1928. Class 6.

248,316. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed June 16, 1928. Serial No. 268,179. PUBLISHED JULY 31, 1928. Class 46.

248,317. DEODORANT. GEO. C. V. FESLER COMPANY, St. Louis, Mo.
Filed June 16, 1928. Serial No. 268,152. PUBLISHED JULY 31, 1928. Class 6.

248,318. LIQUID PREPARATION FOR HAIR RESTORING. WEBSTER J. DALY, Los Angeles, Calif.
Filed June 16, 1928. Serial No. 268,144. PUBLISHED AUGUST 7, 1928. Class 6.

248,319. THREAD-CUTTING TOOLS, MACHINES, AND DEVICES; DIESTOCKS, DIES, PIPE-CUTTING MACHINES, PIPE VISES, PIPE-THREADING MACHINES, BOTH HAND AND POWER OPERATED, AND PARTS THEREOF. THE OSTER MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 15, 1928. Serial No. 268,111. PUBLISHED AUGUST 7, 1928. Class 23.

248,320. HEAVY CHEMICALS WHICH ARE USED FOR INDUSTRIAL PURPOSES IN THE TEXTILE, TANNING, DYEING, AND BLEACHING INDUSTRIES—NAMELY, SULPHURIC ACID, MURIATIC ACID, ACETIC ACID, AND GLAUBER'S SALTS. CONSOLIDATED RENDERING COMPANY, also doing business as Atlantic Packing Company, Boston, Mass.
Filed June 15, 1928. Serial No. 268,082. PUBLISHED AUGUST 7, 1928. Class 6.

248,321. HAND DISHWASHING APPLIANCE COMPRISING A NOZZLE, SOAP MIXER, AND HOSE WITH FAUCET CONNECTION SOLD AS A UNIT. UTILITIES CORPORATION OF MARYLAND, Washington, D. C.
Filed June 14, 1928. Serial No. 268,068. PUBLISHED AUGUST 7, 1928. Class 23.

248,322. STAPLING MACHINES AND ATTACHMENTS, PARTICULARLY OF THE DESK TYPE. NEVA-CLOG PRODUCTS, INC., Bridgeport, Conn.
Filed June 14, 1928. Serial No. 268,054. PUBLISHED AUGUST 7, 1928. Class 23.

248,323. POULTRY TONIC. VIRGINIA LEE FORD, doing business as The Cochran Company, Hays, Kans.
Filed June 14, 1928. Serial No. 268,033. PUBLISHED JULY 31, 1928. Class 6.

248,324. MALT EXTRACT. CENTRAL WEST PRODUCTS COMPANY, Grand Rapids, Mich.
Filed June 14, 1928. Serial No. 268,029. PUBLISHED JULY 31, 1928. Class 46.

248,325. PREPARATION FOR DESTROYING MOTH AND MOTH LARVÆ. CENOL COMPANY, Chicago, Ill.
Filed June 14, 1928. Serial No. 268,028. PUBLISHED AUGUST 7, 1928. Class 6.

248,326. SALVE FOR CUTS, ABRASIONS, ERUPTION, POISON, INFLAMMATION, CONGESTION, OR SWELLING AND FEVER. A. C. CLARK COMPANY, INC., Brattleboro, Vt., and Keene, N. H.
Filed June 13, 1928. Serial No. 267,934. PUBLISHED AUGUST 7, 1928. Class 6.

248,327. WRITING INKS. L. E. WATERMAN COMPANY, New York, N. Y.
Filed June 12, 1928. Serial No. 267,913. PUBLISHED AUGUST 7, 1928. Class 11.

248,328. WRITING INKS. L. E. WATERMAN COMPANY, New York, N. Y.
Filed June 12, 1928. Serial No. 267,912. PUBLISHED AUGUST 7, 1928. Class 11.

248,329. WRITING INKS. L. E. WATERMAN COMPANY, New York, N. Y.
Filed June 12, 1928. Serial No. 267,911. PUBLISHED AUGUST 7, 1928. Class 11.

248,330. WRITING INKS. L. E. WATERMAN COMPANY, New York, N. Y.
Filed June 12, 1928. Serial No. 267,910. PUBLISHED AUGUST 7, 1928. Class 11.

248,331. WRITING INKS. L. E. WATERMAN COMPANY, New York, N. Y.
Filed June 12, 1928. Serial No. 267,909. PUBLISHED AUGUST 7, 1928. Class 11.

248,332. FOOT POWDER AND A REMEDY FOR THE TREATMENT OF CORNS, BUNIONS, AND CALLOUSES. GEORGE J. KATZ, doing business as Kay Laboratories, Chicago, Ill.
Filed June 12, 1928. Serial No. 267,894. PUBLISHED JULY 31, 1928. Class 6.

248,333. MEDICINAL PREPARATION FOR COUGHS, COLDS, SORE THROAT, ASTHMA, AND LUNG FEVER. JAMES A. COLBERT, Fort Wayne, Ind.
Filed June 20, 1928. Serial No. 268,354. PUBLISHED AUGUST 7, 1928. Class 6.

248,334. INSECTICIDES. COMMERCIAL PETROLEUM COMPANY, St. Joseph, Mo.
Filed June 20, 1928. Serial No. 268,355. PUBLISHED AUGUST 7, 1928. Class 6.

248,335. METAL SHANKS FOR SHOES. FRANK G. DELBON, Brooklyn, N. Y.
Filed June 20, 1928. Serial No. 268,357. PUBLISHED AUGUST 7, 1928. Class 13.

248,336. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 6, 1928. Serial No. 267,565. PUBLISHED JULY 31, 1928. Class 12.

248,337. DEPILATORY POWDER, DEODORANT CREAM, CIGARETTE-LIGHTER FLUID, AND ANTISEPTIC SOLUTION. A. C. CHOFF, Philadelphia, Pa.
Filed May 25, 1928. Serial No. 266,977. PUBLISHED AUGUST 7, 1928. Class 6.

248,338. MEDICATED MALT PRODUCT FOR HUMAN USE. THE BRITISH DRUG HOUSES, LIMITED, London, England.
Filed May 25, 1928. Serial No. 266,971. PUBLISHED JULY 24, 1928. Class 6.

248,339. HENNA. J. L. HOPKINS & CO., New York, N. Y.
Filed May 24, 1928. Serial No. 266,936. PUBLISHED AUGUST 7, 1928. Class 6.

248,340. BUILDING BRICK. ALABAMA BRICK & TILE CO., Decatur, Ala.
Filed May 24, 1928. Serial No. 266,905. PUBLISHED JULY 31, 1928. Class 12.

248,341. HYDRATED LIME. UNITED STATES LIME PRODUCTS CORPORATION, San Francisco, Calif.
Filed May 23, 1928. Serial No. 266,900. PUBLISHED JULY 24, 1928. Class 12.

248,342. ALKALIZING MEDICAL PREPARATIONS FOR THE TREATMENT OF ABNORMAL CONDITIONS DUE TO OR ACCOMPANIED BY HYPOALKALINITY OF THE BLOOD OR AN EXCESSIVE ACIDITY OF THE SECRETIONS. WILLARD L. THOMPSON, doing business as Alkura Dispensary, (Unincorporated), Madison, Wis.
Filed May 23, 1928. Serial No. 266,898. PUBLISHED JULY 24, 1928. Class 6.

248,343. CENTRIFUGES, EXTRACTORS, STIRRERS, ASPIRATORS, PUMPS, DRYING APPARATUS, AND FANS FOR EXHAUSTING ACID VAPORS, ALL MADE OF OR PROVIDED WITH COATINGS AND LININGS WHICH ARE CHEMICALLY RESISTANT AND COMPOSED OF PLASTIC COMPOSITIONS, ALL USED IN THE CHEMICAL INDUSTRY. SÄURESCHUTZ-GESELLSCHAFT M. B. H., Berlin-Alt-Glienicke, Germany.
Filed May 23, 1928. Serial No. 266,889. PUBLISHED AUGUST 7, 1928. Class 23.

248,344. POWDER FOR USE AS A PROPHYLACTIC, ANTISEPTIC, AND DEODORANT. WILLIAM J. POULIN, doing business as Fuge Laboratories, Union City, N. J.
Filed May 23, 1928. Serial No. 266,880. PUBLISHED AUGUST 7, 1928. Class 6.

248,345. NECKTIES. NEW PROCESS COMPANY, Warren, Pa.
Filed Apr. 27, 1928. Serial No. 265,492. PUBLISHED JULY 17, 1928. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

248,346. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MACFADDEN TRUE STORY PICTURES INC., New York, N. Y. Filed July 31, 1928. Serial No. 270,381.

TRUE STORY PICTURES

Applicant claims ownership of registered Certificate No. 207,589, issued Jan. 5, 1926.
For Motion Pictures.
Claims use since Sept. 12, 1925.

248,347. (CLASS 48. MALT BEVERAGES AND LIQUORS.) THE F. & M. SCHAEFER BREWING CO., Brooklyn, N. Y. Filed June 28, 1928. Serial No. 268,819.

Schaefer

Applicant claims ownership of Certificate No. 21,004, issued Apr. 19, 1892, and Certificate No. 45,690, issued Aug. 29, 1905.
For Nonintoxicating Cereal Malt Beverage Containing Less Than One-Half of One Per Cent of Alcohol by Volume.
Claims use since February, 1912.

248,348. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEORGE P. THOMAS, doing business as The Thomas Company, Pittsburgh, Pa. Filed June 25, 1928. Serial No. 268,650.

DUPLIKATOR

For Metal-Punching Machines.
Claims use since Feb. 25, 1925.

248,349. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WATERVLIET TOOL CO., INC., Albany, N. Y. Filed June 16, 1928. Serial No. 268,197.

DIAGONAL

For Machine and Hand Reamers of All Kinds and Types.
Claims use since Nov. 1, 1926.

248,350. (CLASS 38. PRINTS AND PUBLICATIONS.) JEAN BERTÉ, INC., New York, N. Y. Filed Dec. 21, 1927. Serial No. 259,194.

JEAN BERTÉ

For Multicolor Prints and Printed Matter.
Claims use since Oct. 15, 1925.

248,351. (CLASS 38. PRINTS AND PUBLICATIONS.) THE "BUYER'S TABLET" PUBLICATION, New York, N. Y. Filed Oct. 5, 1927. Serial No. 255,636.

THE BUYERS TABLET

For Annual Publication in Loose-Leaf Form in Which Substitute Pages are Supplied upon Demand.
Claims use since June 25, 1927.

248,352. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWARD AARON, INC., Kansas City, Mo. Filed Sept. 8, 1927. Serial No. 254,482.

HIGRADE

For Dressed Poultry.
Claims use since Aug. 1, 1927.

248,353. (CLASS 38. PRINTS AND PUBLICATIONS.) FAIRCHILD COMPANY, Chicago, Ill. Filed Aug. 15, 1927. Serial No. 253,494.

George Albemarle

For Nom de Plume, for Magazine Articles.
Claims use since Aug. 10, 1927.

248,354. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KNICKERBOCKER ICE COMPANY, New York, N. Y. Filed Aug. 4, 1927. Serial No. 253,028.

CRYSTAL CUBES

For Ice Products—Namely, Ice Cubes.
Claims use since June 15, 1927.

248,355. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PITTSBURGH MACHINE TOOL COMPANY, Braddock, Pa. Filed Aug. 21, 1928. Serial No. 271,357.

CURTIS

For Rotary Pumps.
Claims use since 1909.

248,356. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OTTO BIEFELD CO., Watertown, Wis. Filed Aug. 28, 1928. Serial No. 271,642.

WISCONSIN-SPECIAL

For Snowplow.
Claims use since Jan. 19, 1927.

248,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. D. KENNY CO., Baltimore, Md. Filed May 28, 1927. Serial No. 249,729.

NORWOOD

For Coffee.
Claims use since May 10, 1927.

248,358. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM J. RAINEY, Philadelphia, Pa. Filed Aug. 21, 1928. Serial No. 271,358.

Rainey's

For Potato Chips.
Claims use since May 15, 1922.

248,359. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DEISTER CONCENTRATOR COMPANY, Fort Wayne, Ind. Filed Aug. 18, 1928. Serial No. 271,234.

THE Deister

NO-BLIND

For Vibrating Screens Used for Separating and Sizing Various Materials Such as Sand, Gravel, Crushed Stone, Coal, Coke, Clay, Sawdust, Meal, Salt, Sugar, Cement, Gypsum, etc.
Claims use since Jan. 3, 1927.

248,360. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) O. MUSTAD & SØN, Olso, Norway. Filed Aug. 9, 1928. Serial No. 270,799.

Mustad

For Fishhooks.
Claims use since October, 1924.

248,361. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) OLD BEN COAL CORPORATION, Chicago, Ill. Filed Aug. 1, 1928. Serial No. 270,440.

PURITY

For Coal.
Claims use since Mar. 6, 1909.

248,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELTON D. KOHR, York, Pa., and Atlantic City, N. J. Filed July 14, 1928. Serial No. 269,590.

WINS ITS FAVOR By ITS FLAVOR
SO DIFFERENT
Kohr's
THE ORIGINAL
CUSTARD

For Frozen Custard.
Claims use since 1924.

248,363. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAPMAN'S, Los Angeles, Calif. Filed July 11, 1928. Serial No. 269,391.

Chapman's

For Ice Creams and Ice-Cream Cakes.
Claims use since 1924.

248,364. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE STANDARD DRUG COMPANY, Cleveland, Ohio. Filed June 15, 1928. Serial No. 268,119.

STANDARD'S
QUALITY
CLEANING
FLUID

For Dry Cleaner.
Claims use since March, 1913.

248,365. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AMERICAN SAFETY DEVICE CO., New York, N. Y. Filed June 5, 1928. Serial No. 267,478.

SCAFFOLTUBE

For Scaffolding and Parts Thereof.
Claims use since January, 1924.

248,366. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PAGE MILLING CO., Luray, Va. Filed May 28, 1928. Serial No. 267,141.

QUICK
BISCUIT

For Self-Rising Wheat Flour.
Claims use since Mar. 14, 1923.

248,367. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. E. LAWRENCE, doing business as Larré Laboratories, Denver, Colo. Filed May 28, 1928. Serial No. 267,132.

ASEPTICONES
LARRÉ Laboratories

For Female Suppositories.
Claims use since August, 1927.

248,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT DERNEHL, doing business as Dernehl Foods Products Co., Milwaukee, Wis. Filed May 19, 1928. Serial No. 266,650.

CALIFORNIA
PUDDING

For a Food Product to be Used as a Pudding or as a Pie and Cake Filling.
Claims use since about May 1, 1927.

248,369. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM FINKEL, doing business as The Lloyd Company, Philadelphia, Pa. Filed Apr. 13, 1928. Serial No. 264,755.

LLOYD'S

For Skin Soap.
Claims use since Sept. 1, 1927.

248,370. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANLEY GATKOWSKI, doing business as Golden Herb Remedy Company, Chicago, Ill. Filed Mar. 10, 1928. Serial No. 262,907.

GOLDEN HERBS



For Medicinal Teas Composed Largely of Crude Drugs, Used for All Stomach Disorders, Constipation, Indigestion, Catarrh of the Stomach, Intestinal Catarrh, Liver Troubles, Gall Stones, Tired Feeling, Pimples, and Other Ailments Caused by Disordered Condition of the Stomach.
Claims use since March, 1925.

248,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARENCE M. LATTIMORE, doing business as Service Laboratories, St. Louis, Mo. Filed Feb. 16, 1928. Serial No. 261,759.

CHEX-A-RUN
CHEX-A-RUN

For a Liquid Compound for Checking Runners, Flats, and Snags in Hosiery and Silk Knit Fabrics.
Claims use since Aug. 8, 1927.

248,372. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EVERETT F. GAINOR, doing business as Gainor Manufacturing Co., Oakland, Calif. Filed Feb. 9, 1928. Serial No. 261,432.

A-1

For Auto Polish, Prepared Gasket Shellac, Duco Polish, Auto Paint, and Black Gear Paint.
Claims use since September, 1923.

248,373. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHROMEPLATE, INC., Union City, N. J. Filed Dec. 1, 1927. Serial No. 258,251.

CHROMOWEAR

For a Preparation for Use as a Metal Surface Finish or Plating.
Claims use since July 30, 1927.

248,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHROMEPLATE, INC., Union City, N. J. Filed Dec. 1, 1927. Serial No. 258,250.

CHROMOPLATE

For a Preparation for Use as a Metal Surface Finish or Plating.
Claims use since July 30, 1927.

248,375. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HEPPENSTALL FORGE & KNIFE COMPANY, Pittsburgh, Pa. Filed Oct. 31, 1927. Serial No. 256,824.

KLEENKUT

For Steel Forgings.
Claims use since Sept. 1, 1927.

248,376. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) RICHMOND AIR BRAKE CO., Richmond, Ind. Filed Sept. 26, 1927. Serial No. 255,267.

RICHMOND
AIR BRAKE
RICHMOND INDIANA

For Air Brakes.
Claims use since Aug. 10, 1927.

248,377. (CLASS 33. GLASSWARE.) THE LIBBEY-OWENS SHEET GLASS COMPANY, Toledo, Ohio. Filed Sept. 8, 1927. Serial No. 254,496.

HEALTH GLASS

For Sheet Glass.
Claims use since Aug. 24, 1927.

248,378. (CLASS 33. GLASSWARE.) THE LIBBEY-OWENS SHEET GLASS COMPANY, Toledo, Ohio. Filed Sept. 8, 1927. Serial No. 254,494.

SAFE GLASS

For Sheet Glass.
Claims use since Aug. 24, 1927.

248,379. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRIPPE, BARKER & CO., New York, N. Y. Filed Apr. 30, 1927. Serial No. 248,266.

TRANSPARENCY PRINTS

For Cotton Piece Goods.
Claims use since Apr. 6, 1927.

248,380. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BIG STONE CANNING CO., Ortonville, Minn. Filed Mar. 16, 1927. Serial No. 245,828.

GOLDEN PRIZE

For Canned Vegetables.
Claims use since Dec. 17, 1926.

248,381. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ERNEST EARL EMONS, Akron, Ohio. Filed Mar. 15, 1927. Serial No. 245,788.

FUL-VUE

For Spectacles, Spectacle Frames, and Parts Thereof.
Claims use since Nov. 10, 1926.

248,382. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LINK-BELT COMPANY, Chicago, Ill. Filed June 21, 1926. Serial No. 233,563.

>KEY-LOCK<

For Chains and Chain Links.
Claims use since about March, 1926.

TRADE-MARK REGISTRATIONS RENEWED

31,590. MEDICINES, MEDICINAL SPECIALTIES, AND ARTICLES FOR THE TOILET. Registered May 24, 1898, to OBERHAUSSER & LANDAUER. Renewed May 24, 1928, to Oberhausser & Landauer, Kneipp-Haus-Centrain, Wurzburg, Germany, by change of name.

31,818. CARBON BLACKS. Registered July 19, 1898. PEERLESS CARBON BLACK COMPANY, LIMITED. Renewed July 19, 1928, to The Peerless Carbon Black Co., Pittsburg, Pa., a Corporation of West Virginia, successor.

31,928. CERTAIN NAMED ARTICLES OF STATIONERY. Registered August 30, 1898. THE FIRM OF J. S. STAEDTLER. Renewed August 30, 1928, to J. S. Staedtler, Kommandit-Gesellschaft, Nuremberg, Germany, a Corporation of Germany, successor.

67,804. WIRE PICTURE CORD. Registered February 18, 1908. WRIGHT WIRE COMPANY, Worcester, Mass. Renewed February 18, 1928, to Edward C. Bowers and Charles L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

70,030. A POISON FOR RATS, MICE, VERMIN, AND INSECTS. Registered July 21, 1908. EPHRAIM S. WELLS. Renewed July 21, 1928, to William Henry Wells and George Titus Wells, executors of the estate of Ephraim S. Wells, deceased, Jersey City, N. J., assignee.

70,260. CHOCOLATE CANDIES. Registered August 18, 1908. NEW ENGLAND CONFECTIONERY CO., Portland, Me., and Boston, Mass. Renewed August 18, 1928, to New England Confectionery Company, Cambridge, Mass., a Corporation of Massachusetts, assignee.

70,261. CHOCOLATE CANDIES. Registered August 18, 1908. NEW ENGLAND CONFECTIONERY CO., Portland, Me., and Boston, Mass. Renewed August 18, 1928, to New England Confectionery Company, Cambridge, Mass., a Corporation of Massachusetts, assignee.

70,262. CHOCOLATE CANDIES. Registered August 18, 1908. NEW ENGLAND CONFECTIONERY CO., Portland, Me., and Boston, Mass. Renewed August 18, 1928, to New England Confectionery Company, Cambridge, Mass., a Corporation of Massachusetts, assignee.

70,263. CHOCOLATE CANDIES. Registered August 18, 1908. NEW ENGLAND CONFECTIONERY CO., Portland, Me., and Boston, Mass. Renewed August 18, 1928, to New England Confectionery Company, Cambridge, Mass., a Corporation of Massachusetts, assignee.

70,483. LIME FRUIT JUICE. Registered September 8, 1908. EVANS SONS LESCHER & WEBB LIMITED, Liverpool and London, England, a Corporation of Great Britain. Renewed September 8, 1928.

70,855. RAZORS. Registered October 13, 1908. DURHAM SAFETY RAZOR CO. Renewed October 13, 1928, to Durham-Duplex Razor Company, New York, N. Y., a Corporation of New York, assignee.

70,960. CANNED FRUITS, CANNED VEGETABLES, APPLE BUTTER, BOTTLED TOMATO CATSUP, AND MINCEMEAT. Registered October 20, 1908. NAVE-MCCORD MERCANTILE COMPANY, St. Joseph, Mo., a Corporation of Missouri. Renewed October 20, 1928.

71,156. CERTAIN OPTICAL GOODS. Registered November 3, 1908. RATHENOWER OPTISCHE INDUSTRIE ANSTALT VORM. EMIL BUSCH, A. G., Rathenow, Germany. Renewed November 3, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

71,288. CERTAIN MEASURES AND OPTICAL GOODS. Registered November 17, 1908. DAIMLER-MOTOREN-GESELLSCHAFT, Unterturkheim, near Stuttgart, Germany. Renewed November 17, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

71,424. AXLE GREASE. Registered November 24, 1908. BELKNAP HARDWARE AND MANUFACTURING COMPANY, Louisville, Ky., a Corporation of Kentucky. Renewed November 24, 1928.

71,512. COAL. Registered December 1, 1908. NEW YORK COAL COMPANY, Augusta, Me., and Columbus, Ohio. Renewed December 1, 1928, to New York Coal Company, Columbus, Ohio, a Corporation of Maine.

71,573. CERTAIN SYRUPS. Registered December 1, 1908. BLISS SYRUP REFINING CO. Renewed December 1, 1928, to Bliss Syrup & Preserving Company, Kansas City, Mo., a Corporation of Missouri, successor.

71,585. WIRE ROPE AND CABLES. Registered December 1, 1908. THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, Worcester, Mass. Renewed December 1, 1928, to The American Steel and Wire Company of New Jersey, Cleveland, Ohio, a Corporation of New Jersey.

71,593. SHOES MANUFACTURED OF LEATHER. Registered December 1, 1908. CHARLES W. JOHNSON, Natick and Boston, Mass. Renewed December 1, 1928, to Salamander Schuhgesellschaft, m. b. H., Berlin, Germany, a Corporation of Germany, assignee.

71,616. LIQUID FOR DESTROYING GERMS AND INSECTS. Registered December 8, 1908. UNITED CHEMICAL CO. Renewed December 8, 1928, to Charles A. Nye, doing business as United Chemical Co., Minneapolis, Minn., successor.

71,785. BISCUIT AND CRACKERS. Registered December 15, 1908. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed December 15, 1928, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

71,786. BISCUIT AND CRACKERS. Registered December 15, 1908. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed December 15, 1928, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

71,787. BISCUIT AND CRACKERS. Registered December 15, 1908. NATIONAL BISCUIT COMPANY, Jersey City N. J., and New York, N. Y. Renewed December 15, 1928, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

71,806. STOUT AND ALE. Registered December 15, 1908. EDWARD & JOHN BURKE, LIMITED, Dublin, Ireland, and New York, N. Y. Renewed December 15, 1928, to Edward & John Burke, Limited, Dublin, Ireland, a Corporation of Great Britain and Ireland, now of the Irish Free State.

71,839. MOLDERS' SHOES. Registered December 15, 1908. FRANK M. STRAHL, Erie, Pa. Renewed December 15, 1928.

71,903. WHEAT FLOUR. Registered December 22, 1908. WELLINGTON & SON. Renewed December 22, 1928, to Wellington Milling Company, Anderson, Ind., a Corporation of Indiana, successor.

72,021. CHAIRS AND DAVENPORTS. Registered December 29, 1908. THE C. F. STREIT MFG. CO., Cincinnati, Ohio, a Corporation of Ohio. Renewed December 29, 1928.

72,080. WHISKY, GIN, AND COGNAC. Registered December 29, 1908. EDWARD & JOHN BURKE, LIMITED, Dublin, Ireland, and New York, N. Y. Renewed December 29, 1928, to Edward & John Burke, Limited, Dublin, Ireland, a Corporation of Great Britain and Ireland, now of the Irish Free State.

72,096. CERTAIN FISHING TACKLE. Registered January 5, 1909. HORACE A. WHITTEMORE, doing business as H. A. Whittemore & Co., Boston, Mass. Renewed January 5, 1929.

72,128. STOUT AND ALE. Registered January 5, 1909. EDWARD & JOHN BURKE, LIMITED, Dublin, Ireland, and New York, N. Y. Renewed January 5, 1929, to Edward & John Burke, Limited, Dublin, Ireland, a Corporation of Great Britain and Ireland, now of the Irish Free State.

72,150. BLENDED IRISH WHISKIES, DRY GIN, AND JAMAICA RUM. Registered January 5, 1909. EDWARD & JOHN BURKE, LIMITED, Dublin, Ireland, and New York, N. Y. Renewed January 5, 1929, to Edward & John Burke, Limited, Dublin, Ireland, a Corporation of Great Britain and Ireland, now of the Irish Free State.

72,203. PREPARATIONS FOR REMOVING CARBON FROM CYLINDERS, PISTON RINGS, VALVES, &c., OF AUTOMOBILES AND MARINE ENGINES. Registered January 5, 1909. THE PREST-O-LITE COMPANY, Indianapolis, Ind. Renewed January 5, 1929, to The Prest-O-Lite Company, Inc., New York, N. Y., a Corporation of New York, assignee.

72,236. LAMPBLACK. Registered January 12, 1909. WILCKES MARTIN WILCKES COMPANY. Renewed January 12, 1929, to Wilckes, Martin, Wilckes, Co., Camden, N. J., and New York, N. Y., a Corporation of New Jersey, successor.

72,403. RUBBERIZED SWIMMING COLLARS. Registered January 26, 1909. ARCHER RUBBER COMPANY, Milford, Mass., a Corporation of Massachusetts. Renewed January 26, 1929.

72,504. NIGHT LIGHTS. Registered January 26, 1909. STROHMEYER & ARPE CO., New York, N. Y., a Corporation of New York. Renewed January 26, 1929.

72,537. PAPER. Registered February 2, 1909. J. C. BLAIR COMPANY, Huntingdon, Pa., a Corporation of Pennsylvania. Renewed February 2, 1929.

72,574. NIGHT ROBES, PAJAMAS, OVERSHIRTS, UNDERSHIRTS, AND DRAWERS. Registered February 2, 1909. E. ROSENFELD & Co. Renewed February 2, 1929, to The Faultless Manufacturing Company, Baltimore, Md., a Corporation of Maryland, assignee by mesne assignments.

72,594. CERTAIN FOOD PREPARATIONS. Registered February 2, 1909. STROHMEYER & ARPE CO., New York, N. Y., a Corporation of New York. Renewed February 2, 1929.

72,595. CERTAIN FOOD PREPARATIONS. Registered February 2, 1909. STROHMEYER & ARPE CO., New York, N. Y., a Corporation of New York. Renewed February 2, 1929.

72,615. CIGARS. Registered February 9, 1909. H. FENDRICH. Renewed February 9, 1929, to H. Fendrich Incorporated, Evansville, Ind., a Corporation of Indiana, assignee.

72,681. PAPER-TESTING MACHINES. Registered February 9, 1909. B. F. PERKINS & SON, INCORPORATED, Holyoke, Mass. Renewed February 9, 1929, to B. F. Perkins & Son, Inc., Willimansett, Chicopee, Mass., a Corporation of Massachusetts.

72,682. STERILIZED EVAPORATED MILK. Registered February 9, 1909. THE FEDERAL PACKING CO., Enosburg Falls, Vt., and New York, N. Y. Renewed February 9, 1929, to Nestle's Food Company, Inc., New York, N. Y., a Corporation of New York, assignee.

LABELS

REGISTERED OCTOBER 16, 1928.

34,760.—*Title:* FOURSOME. For Candy. ALBERTA CANDY Co., doing business as Alberta, San Francisco, San Francisco, Calif. Published May 15, 1928.

34,761.—*Title:* STIMULON. For a Pure Food Drink. GEORGE ANSTON, Chicago, Ill. Published July 6, 1928.

34,762.—*Title:* NOCOSOAP. For Liquid Toilet Soap. ANTISEPTOL LIQUID SOAP COMPANY, Chicago, Ill. Published May 1, 1928.

34,763.—*Title:* CHILES JALAPEÑOS. For Canned Chiles. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published May 30, 1924.

34,764.—*Title:* CHILES JALAPEÑOS. For Canned Stuffed Chiles. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published May 30, 1924.

34,765.—*Title:* CHILES JALAPEÑOS. For Canned Chiles. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published September 20, 1923.

34,766.—*Title:* CHILITOS SERRANOS. For Canned Chiles. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published May 30, 1924.

34,767.—*Title:* CHILITOS SERRANOS. For Canned Chiles. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published September 20, 1913.

34,768.—*Title:* SALSA TABASCO. For Chili Sauce. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published May 12, 1926.

34,769.—*Title:* MOLE DE GUAJOLOTE. For Canned Turkey. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published May 30, 1924.

34,770.—*Title:* TLAMOLE. For Sauce. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published January 31, 1911.

34,771.—*Title:* PATO TRIGUERO EN PIPIAN. For Canned Duck. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published May 30, 1924.

34,772.—*Title:* SANOLA. For Candy Laxative. O. DAL CORTIVO, doing business as Sanola Co., New York, N. Y. Published July 2, 1928.

34,773.—*Title:* WIDOW'S CRACKER. For Crackers. A. DAVIS, Miami, Fla. Published July 5, 1928.

34,774.—*Title:* D. For Epsom Salt. THE DRACKETT CHEMICAL COMPANY, Cincinnati, Ohio. Published August 3, 1928.

34,775.—*Title:* EMERSON'S GINGER-MINT GUM. For Chewing Gum. THE GINGER-MINT JULEP COMPANY, Baltimore, Md. Published July 16, 1928.

34,776.—*Title:* GLADNESS. For Chocolate Layer Cake. GLADNESS BAKERIES INCORPORATED, St. Paul, Minn. Published August 1, 1928.

34,777.—*Title:* MRS. GODDARD'S CREAMY CUSTARD POWDER. For Custard Powders. MARGARET GODDARD, Portland, Oreg. Published October 25, 1926.

34,778.—*Title:* WEARWELL. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 19, 1928.

34,779.—*Title:* WEARWELL SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 10, 1928.

34,780.—*Title:* STRAWBRIDGE & CLOTHIER. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 10, 1928.

34,781.—*Title:* THE M. O'NEIL CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 2, 1928.

34,782.—*Title:* FOX FOOTWEAR. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 3, 1928.

34,783.—*Title:* DR. FOX'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 3, 1928.

34,784.—*Title:* DR. HUNN'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 3, 1928.

34,785.—*Title:* HORNUNG'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 17, 1928.

34,786.—*Title:* MILBY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 27, 1928.

34,787.—*Title:* L. S. AYRES & COMPANY. For Boxes. HOAGUE SPRAGUE CORPORATION, Lynn, Mass. Published April 7, 1928.

34,788.—*Title:* MIMNAUGH'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 24, 1928.

34,789.—*Title:* PEDIFORME. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 15, 1928.

34,790.—*Title:* FRENCH BOOTERIE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 27, 1928.

34,791.—*Title:* BLOOM'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 23, 1928.

34,792.—*Title:* COLUMBIA. For Boxes. HOAGUE-SPRAGUE-CORPORATION, Lynn, Mass. Published April 24, 1928.

34,793.—*Title:* RUSSELL WILLIAMS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 10, 1928.

34,794.—*Title:* NAY'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 18, 1928.

34,795.—*Title:* SAKS'. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 26, 1928.

34,796.—*Title:* MILBY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published April 27, 1928.

34,797.—*Title:* LITTLE MISS TWELVE. For Ladies' and Misses' Dresses. CHARLES HOFFMAN, New York, N. Y. Published March 23, 1928.

34,798.—*Title:* ELECTRO. For Liniment. FRANK HOGSHEAD, Norfolk, Va. Published May 9, 1928.

34,799.—*Title:* SMILE. For Fresh Grapes. J. S. KRASNOW, Fresno, Calif. Published July 16, 1928.

34,800.—*Title:* MOORES & ROSS. For Ice Cream. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published July 15, 1928.

34,801.—*Title:* PARTRIDGE CREAMERY BUTTER. For Creamery Butter. THE H. H. MEYER PACKING COMPANY, Cincinnati, Ohio. Published July 1, 1928.

34,802.—*Title:* NOBSCOT. For Ginger Ale. NOBSCOT SPRING WATER CO., Boston, Mass. Published July 10, 1928.

34,803.—*Title:* STAR OF THE EAST. For Flour. THE PAGE MILLING CO., Luray, Va. Published June 28, 1928.

34,804.—*Title:* ZOFF. For Hand Soap Powder. CHARLES A. RAHAYEL, doing business as Rahayel Chemical Company, Brooklyn, N. Y. Published July 25, 1928.

34,805.—*Title:* SACKETT JUNIOR CIGARS DE-NICOTINED (BULK OF NICOTINE REMOVED). For Junior Cigars. HUBERT SACKETT, New York, N. Y. Published August 1, 1928.

34,806.—*Title:* C. O. S. AUTO POLISH. For Auto Polish Preparation. C. O. STROMBOM, Dos Palos, Calif. Published July 1, 1928.

PRINTS

REGISTERED OCTOBER 16, 1928.

11,263.—*Title:* BLUE BAND VELVET PENCILS—BUY YOUR SCHOOL SUPPLIES HERE NO. 146. For Pencils. AMERICAN LEAD PENCIL COMPANY, Hoboken, N. J. Published July 25, 1928.

11,264.—*Title:* MAKERS OF AMERICA'S FINEST FACE BRICK. For Brick. D. A. CANNON, doing business as Cannon & Co., Sacramento, Calif. Published December 1, 1926.

11,265.—*Title:* FREDERICS VITA-TONIC COMPOUND LIGHT AND MEDIUM SHADES. For a Compound for Waving Hair. E. FREDERICS, INC., New York, N. Y. Published May 14, 1928.

11,266.—*Title:* SOFT, SUMMER SUNSHINE. DEEP, COOL SHADOWS. For Peanut Butter, Baked Beans, Chili Sauce, Stuffed Olives, Mustard, and Sweet Mixed Pickles. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published August 1, 1928.

11,267.—*Title:* THE STAMP OF MILLIONS. For Toasted Peanuts. TOM HUSTON, doing business as Tom Huston Peanut Company, Columbus, Ga. Published August 18, 1928.

11,268.—*Title:* AUTUMN LEAF. For Bricks. MICHIGAN CLAY PRODUCTS CORPORATION, Williamston, Mich. Published May 3, 1928.

11,269.—*Title:* GRACE TANCILL TWO-PIECE CREPE DE CHINE CAPYI MODEL. For Dresses. GRACE TANCILL, St. Louis, Mo. Published August 1, 1928.

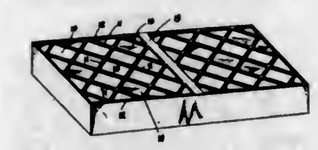
11,270.—*Title:* WILCOX FOOT BALM. For Foot Powder. CECIL W. WILCOX, Kalamazoo, Mich. Published May 24, 1928.

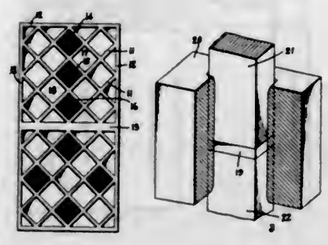
11,271.—*Title:* SUPER SERVICE STEEL-MORE CUTS PER GRIND. For Knives for Woodworking Machines. YATES-AMERICAN MACHINE COMPANY, Beloit, Mich. Published August 1, 1928.

REISSUES

OCTOBER 16, 1928.

17,103. DOMINO AND ART OF MAKING THE SAME. TOM C. GRAHAM, Albany, N. Y., assignor to The Embossing Company, Albany, N. Y., a Corporation of New York. Filed Aug. 28, 1928. Serial No. 302,021. Original No. 1,675,891, dated July 3, 1928, Serial No. 147,234, filed Nov. 9, 1926. 7 Claims. (Cl. 273—137.)



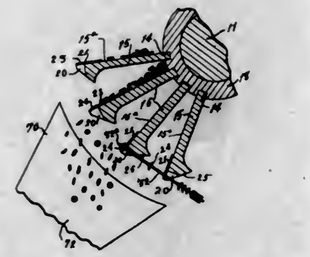


1. In the art of making dominoes, the improvement comprising shaping the dominoes and providing each with pip-areas in numbers suitable for dominoes of high denominations and separated from each other by intervening spaces of the same color as but different elevation from the pip-areas themselves, and coloring different numbers of pip-areas on the several dominoes contrastively to the other pip-areas to provide the desired denominations, dominoes of lower denominations being left with one or more pip-areas of the same color as the intervening spaces.

6. A set of dominoes each having on its face recessed pip-areas in numbers suitable for dominoes of high denomination, bounded and separated from each other by intervening spaces of the same color, the areas of different dominoes being distinctively colored in different numbers to form pips of different denominational numbers, each domino of lower denomination having one or more pip-areas of the same color as the intervening spaces.

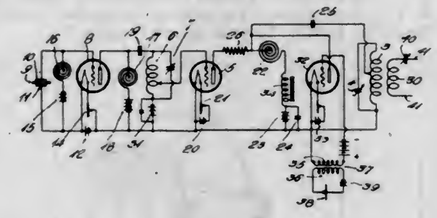
17,104. WASHER SORTING AND STRINGING MACHINE. ALOYS SCHONENBERGER, Springfield Township, Summit County, Ohio, assignor to himself and Floyd E. Shannon, Akron, Ohio. Filed July 7, 1928. Serial No. 291,094. Original No. 1,598,748, dated Sept. 7, 1926, Serial No. 752,075, filed Nov. 24, 1924. 26 Claims. (Cl. 209—72.)

13. A washer stringing machine comprising a member having a surface adapted to receive a quantity of washers thereon, said member having a washer engaging seat on said surface, means to turn said member to move said washer engaging seat in an endless path, said member provided with a groove disposed in said path and means to support a wire with the free end thereof positioned in



said groove whereby a continued movement of said member will repeatedly bring said seat to the free end of said wire.

17,105. AMPLIFYING SYSTEM. ALFRED CROSSLEY, Washington, D. C.; assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 242,261. Original No. 1,651,810, dated Dec. 6, 1927, Serial No. 68,121, filed Nov. 10, 1925. 4 Claims. (Cl. 250—17.)



1. In a high frequency transmission system the combination of a plurality of electron tubes each having grid, filament and plate electrodes, input and output circuits interconnecting said electrodes, a piezo-electric crystal connected in the input circuit of one of said electron tubes for controlling the generation of oscillations in the circuit of said electron tube, another of said electron tubes having its input circuit coupled with the output circuit of said first mentioned electron tube, the output circuit of said last mentioned tube including parallel branch circuits, and a resistance connected in series with said parallel branch circuits and directly connected to the plate electrode of said last mentioned electron tube whereby said electron tube operates to generate oscillations of a frequency determined by said piezo-electric crystal without interference from undesired self-oscillatory current in the circuits thereof.

DESIGNS

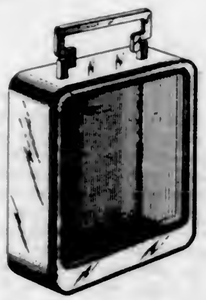
OCTOBER 16, 1928.

76,594. LAMP SHADE. CHARLES APELT, Comfort, Tex. Filed June 28, 1928. Serial No. 27,308. Term of patent 7 years.



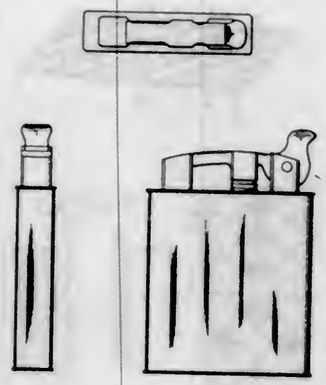
The ornamental design for a lamp shade, as shown.

76,595. CLOCK CASE. WERNER H. BALZER, New York, N. Y., assignor to The Ansonia Clock Company, New York, N. Y., a Corporation of Connecticut. Filed Dec. 17, 1927. Serial No. 24,515. Term of patent 14 years.



The ornamental design for a clock case, as shown.

76,596. CIGAR LIGHTER. ARTHUR BATES, Attleboro, Mass., assignor to Baer & Wilde Co., Attleboro, Mass. Filed June 18, 1928. Serial No. 27,175. Term of patent 14 years.



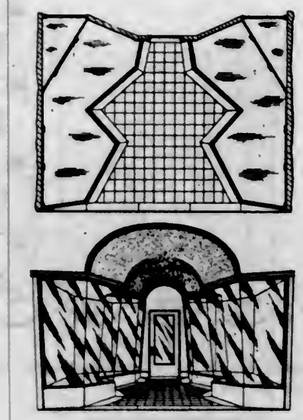
The ornamental design for a cigar lighter as shown.

76,597. PITCHER. OTTO BERGNER, Schonwald, Germany. Filed Apr. 27, 1928. Serial No. 26,483. Term of patent 3½ years.



The ornamental design for a pitcher, as shown.

76,598. STORE FRONT. JACOB B. BERLAND, St. Louis, Mo. Filed Aug. 9, 1928. Serial No. 27,760. Term of patent 14 years.



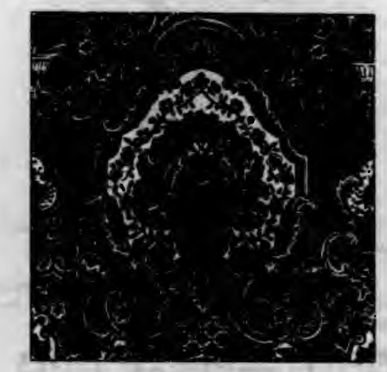
The ornamental design for a store-front substantially as shown.

76,599. TEXTILE FABRIC. LUCIEN BIVA, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J., a Corporation of New Jersey. Filed July 30, 1928. Serial No. 27,637. Term of patent 3½ years.



The ornamental design for a textile fabric substant'ally as shown.

76,600. TEXTILE FABRIC. LUCIEN BIVA, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J., a Corporation of New Jersey. Filed July 30, 1928. Serial No. 27,639. Term of patent 3½ years.



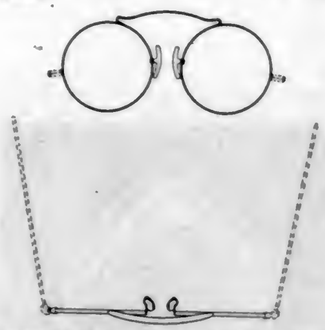
The ornamental design for a textile fabric substantially as shown.

76,601. SCORE CARD. KATHLEEN BOE, St. Louis, Mo. Filed Apr. 4, 1927. Serial No. 21,451. Term of patent 3½ years.



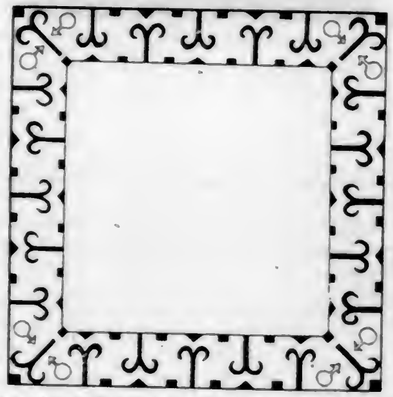
The ornamental design for a score card, as shown.

76,602. EYEGLASS FRAME. SAMUEL E. BOUCHARD, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed July 2, 1928. Serial No. 27,362. Term of patent 7 years.



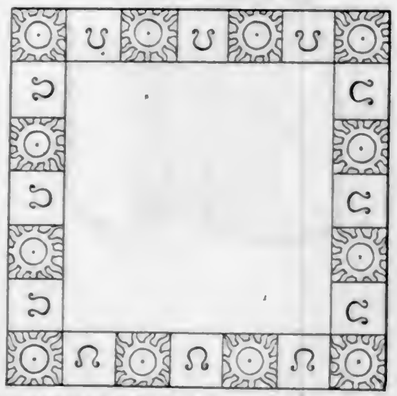
The ornamental design for an eyeglass frame substantially as shown.

76,603. HANDKERCHIEF OR THE LIKE. MARGARET BRIDGMAN, Canadensis, Pa. Filed May 3, 1927. Serial No. 21,828. Term of patent 7 years.



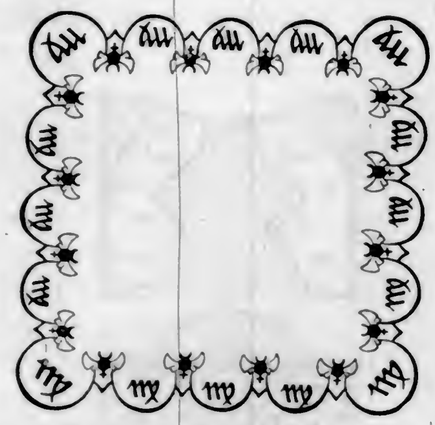
The ornamental design for a handkerchief or the like, substantially as shown and described.

76,604. HANDKERCHIEF OR THE LIKE. MARGARET BRIDGMAN, Canadensis, Pa. Filed May 3, 1927. Serial No. 21,832. Term of patent 7 years.



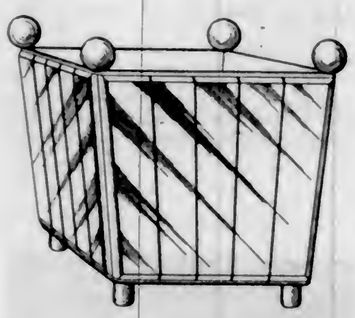
The ornamental design for a handkerchief or the like, substantially as shown and described.

76,605. HANDKERCHIEF OR THE LIKE. MARGARET BRIDGMAN, Canadensis, Pa. Filed May 3, 1927. Serial No. 21,833. Term of patent 7 years.



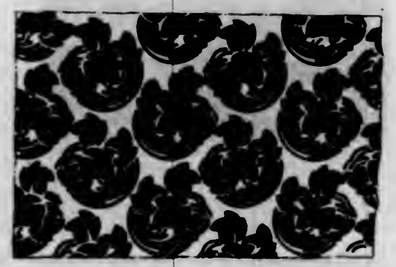
The ornamental design for a handkerchief or the like, substantially as shown and described.

76,606. FLOWERPOT OR SIMILAR ARTICLE. MARGUERITE A. BUCHWALTER, New York, N. Y. Filed June 14, 1928. Serial No. 27,123. Term of patent 7 years.



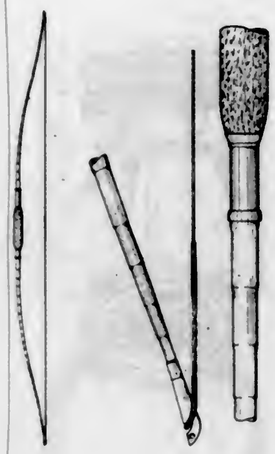
The ornamental design for a flowerpot or similar article substantially as shown.

76,607. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed Aug. 9, 1928. Serial No. 27,755. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

76,608. BOW FOR ARCHERY. ROBERT H. COWDERY, Geneva, Ohio. Filed July 5, 1927. Serial No. 22,664. Term of patent 14 years.



The ornamental design for a bow for archery, as shown.

76,609. WOVEN-WIRE FABRIC. MOISE H. DURAND, Attleboro, Mass., assignor to Charles D. Blaikie, doing business as Smith, Richardson Co., Attleboro, Mass. Filed June 20, 1928. Serial No. 27,208. Term of patent 14 years.



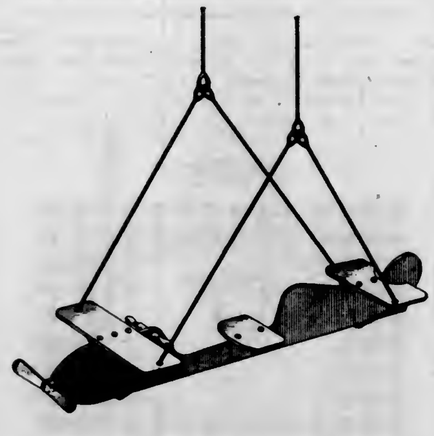
The ornamental design for a woven wire fabric substantially as shown and described.

76,610. TOY ANIMAL. RICHARD EVANS ELLETT, London, England. Filed Mar. 15, 1928, Serial No. 25,869, and in Great Britain Dec. 19, 1927. Term of patent 7 years.



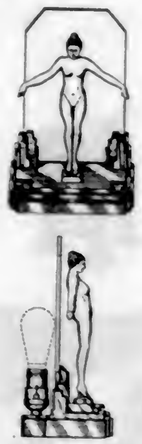
The ornamental design for a toy animal as shown.

76,611. AEROPLANE SWING. HOWARD J. FERRIS, Harvard, Ill. Filed Jan. 23, 1928. Serial No. 24,993. Term of patent 14 years.



The ornamental design for an aeroplane swing as shown.

76,612. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed June 30, 1928. Serial No. 27,340. Term of patent 7 years.



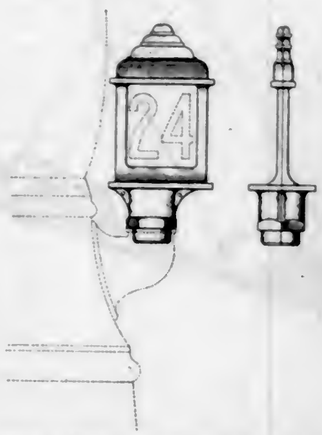
The ornamental design for a lamp as shown.

76,613. LIGHTING FIXTURE. HARRY J. GRUBER, New York, N. Y. Filed Aug. 17, 1928. Serial No. 27,855. Term of patent 7 years.



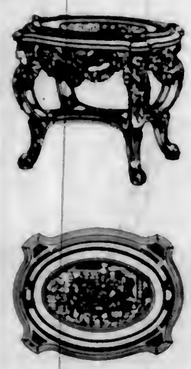
The ornamental design for a lighting fixture, as shown.

76,614. PRICE RACK. OKLA H. HERSHMAN, Indianapolis, Ind. Filed Apr. 9, 1928. Serial No. 26,197. Term of patent 7 years.



The ornamental design for a price rack, as shown.

76,615. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1928. Serial No. 26,353. Term of patent 3½ years.



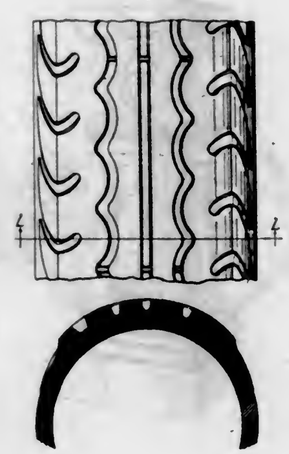
The ornamental design for a table or similar article as shown.

76,616. OUTDOOR SIGNBOARD. WATHEN M. JAMES, Denver, Colo. Filed Jan. 21, 1928. Serial No. 24,968. Term of patent 7 years.



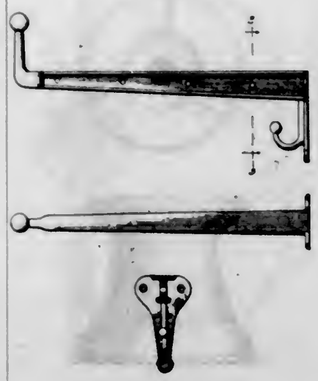
The ornamental design for an outdoor signboard as shown.

76,617. TIRE. JOHN H. KOHSIEK, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 30, 1927. Serial No. 22,615. Term of patent 14 years.



The ornamental design for a tire, as shown.

76,618. CLOTHES HANGER. MINNA BOBENE KRAFTHEFER, Chicago, Ill. Filed Oct. 24, 1927. Serial No. 23,867. Term of patent 14 years.



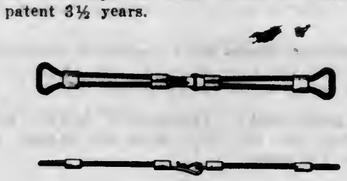
The ornamental design for a clothes hanger, as shown.

76,619. HAND MIRROR OR SIMILAR ARTICLE. FRANK H. LA PIERRE, East Orange, N. J., assignor to La Pierre Manufacturing Company, Newark, N. J., a Corporation. Filed June 29, 1928. Serial No. 27,322. Term of patent 7 years.



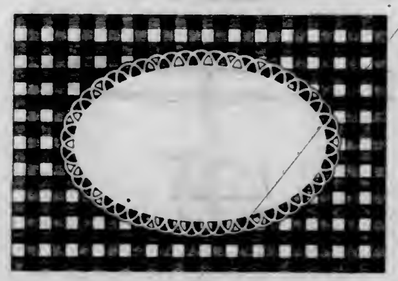
The ornamental design for a hand mirror or similar article as shown.

76,620. BRACELET. IRVING R. LEDERER, Providence, R. I. Filed Apr. 13, 1928. Serial No. 26,314. Term of patent 3½ years.



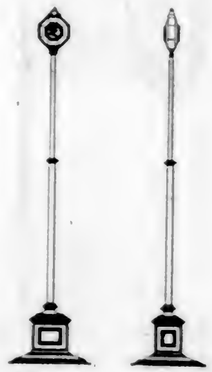
The ornamental design for a bracelet, substantially as shown.

76,621. LABEL BLANK. WILLIAM E. LONG, Chicago, Ill., assignor to The W. E. Long Co., Chicago, Ill., a Corporation of Illinois. Filed July 27, 1928. Serial No. 27,604. Term of patent 14 years.



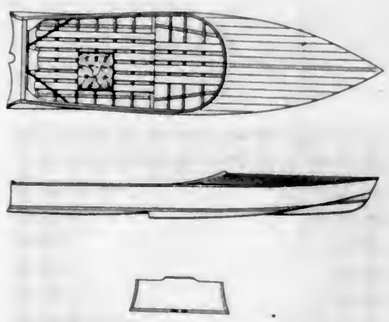
The ornamental design for a label blank, substantially as shown.

76,622. TRANSMITTER MOUNTING. GEORGE R. LUM, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 26, 1928. Serial No. 27,287. Term of patent 14 years.



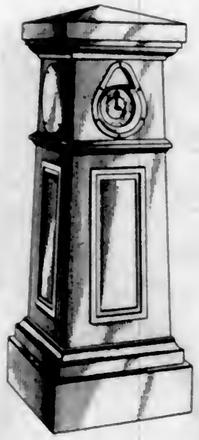
The ornamental design for a transmitter mounting as shown.

76,623. SPEED BOAT. FREDERICK C. MARTIN, Delphi, Ind. Filed Mar. 17, 1928. Serial No. 25,893. Term of patent 3½ years.



The ornamental design for a speed boat, as shown.

76,624. CABINET FOR FLUID-DISPENSING OUTFIT. WALTER E. MILESTONE, Lakewood, Ohio. Filed Dec. 23, 1927. Serial No. 24,609. Term of patent 3½ years.



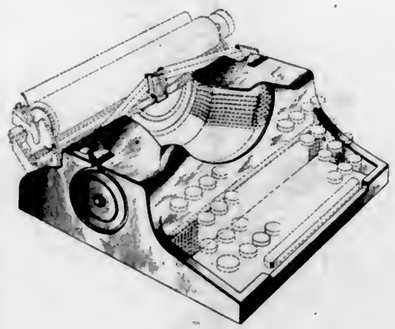
The ornamental design for a cabinet for fluid dispensing outfit as shown.

76,625. SMOKER'S ASH RECEPTACLE OR SIMILAR ARTICLE. ANGELO JOSEPH MORNAGHINI, Brooklyn, N. Y. Filed July 20, 1928. Serial No. 27,544. Term of patent 3½ years.



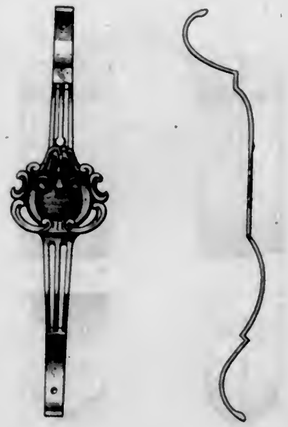
The ornamental design for a smoker's ash receptacle or similar article, as shown.

76,626. PORTABLE TYPEWRITING-MACHINE FRAME. LOUIS A. NEMCOVSKY, New York, N. Y., assignor, by mesne assignments, to Sun Typewriter Company, New York, N. Y., a Corporation of New Jersey. Filed July 10, 1926. Serial No. 18,297. Term of patent 14 years.



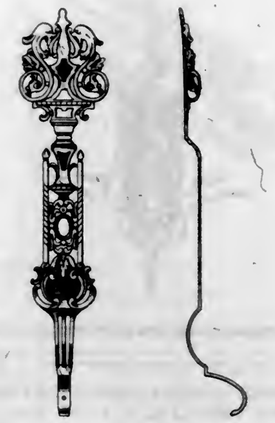
The ornamental design for a portable typewriting machine frame as shown and described.

76,627. BODY PLATE. BARNET NEWLAND, New York, N. Y. Filed Aug. 17, 1928. Serial No. 27,856. Term of patent 7 years.



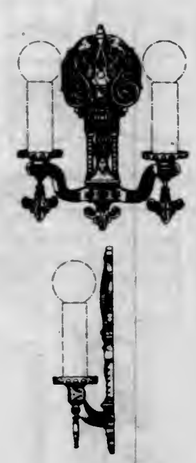
The ornamental design for a body plate as shown.

76,628. BODY PLATE. BARNET NEWLAND, New York, N. Y. Filed Aug. 17, 1928. Serial No. 27,857. Term of patent 7 years.



The ornamental design for a body plate as shown.

76,629. WALL BRACKET. BARNET NEWLAND, New York, N. Y. Filed Aug. 17, 1928. Serial No. 27,858. Term of patent 7 years.



The ornamental design for a wall bracket as shown.

76,630. CHANDELIER. BARNET NEWLAND, New York, N. Y. Filed Aug. 17, 1928. Serial No. 27,860. Term of patent 7 years.



The ornamental design for a chandelier as shown.

76,631. DOLL. LAULIE S. NEWELL and CORA E. BROWN, Miami, Fla. Filed Feb. 2, 1928. Serial No. 25,138. Term of patent 14 years.



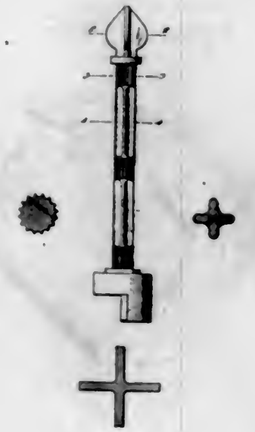
The ornamental design for a doll, as shown.

76,632. MANTEL CLAMP. JESSIE SMITH ORNES and LULU VERHOREN LAVELL, Minneapolis, Minn. Filed Mar. 16, 1928. Serial No. 25,884. Term of patent 14 years.



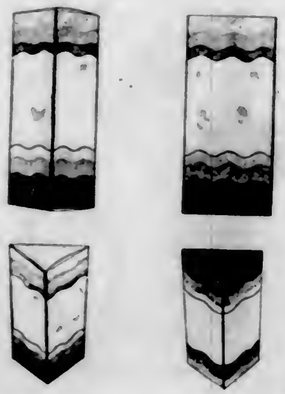
The ornamental design for a mantel clamp as shown.

76,633. SIGNAL STANDARD. HENRY C. PFAFF, Newark, N. J., assignor to Traffic and Street Sign Company, Newark, N. J., a Corporation of New Jersey. Filed June 27, 1928. Serial No. 27,294. Term of patent 14 years.



The ornamental design for a signal standard, as shown.

76,634. CARTON. GEORGE FREDERIC RIEGEL, New York, N. Y., assignor to Pinaud Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1928. Serial No. 26,606. Term of patent 14 years.



The ornamental design for a carton as shown.

76,635. ORNAMENT FOR AUTOMOBILE RADIATOR CAP OR SIMILAR ARTICLE. OLIVER C. RITZ WOLLER, Chicago, Ill. Filed Dec. 15, 1927. Serial No. 24,499. Term of patent 14 years.



The ornamental design for an ornament for automobile radiator cap or similar article, substantially as shown.

76,636. LENS FOR VEHICLE LAMPS. WALTER D'ARCY RYAN, Schenectady, N. Y. Filed Dec. 27, 1926. Serial No. 20,161. Term of patent 14 years.



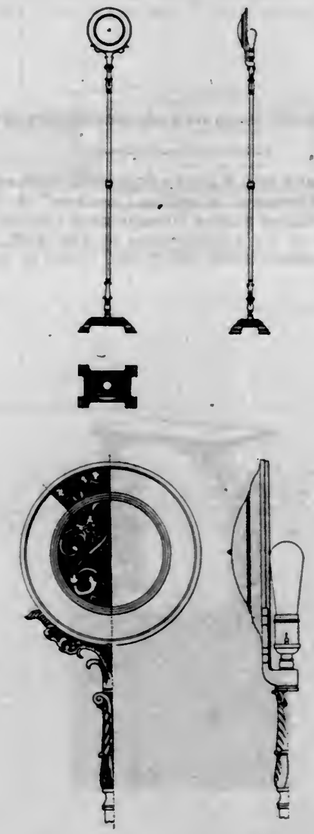
The ornamental design for a lens for vehicle lamps, as shown.

76,637. VANITY CASE. MAX E. SCHENKE, Jersey City, N. J. Filed June 19, 1928. Serial No. 27,200. Term of patent 3½ years.



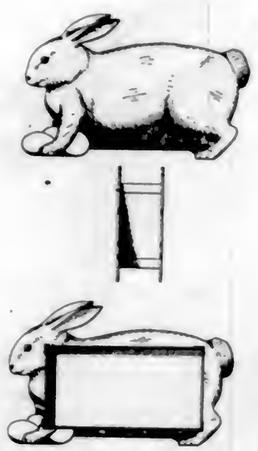
The ornamental design for a vanity case as shown.

76,638. FLOOR LAMP. HANS T. SCHEIDACKER, Brooklyn, N. Y., assignor to Hudson Brass Works, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 27, 1927. Serial No. 24,668. Term of patent 3½ years.



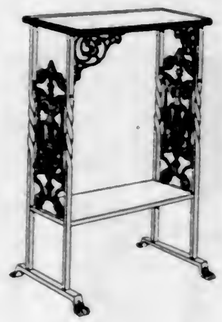
The ornamental design for a floor lamp, as shown.

76,639. BOX. FRANK J. SCHLEICHER, St. Louis, Mo. Filed Apr. 9, 1928. Serial No. 26,204. Term of patent 14 years.



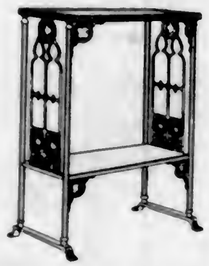
The ornamental design for a box, substantially as shown.

76,640. TABLE FOR RADIO RECEIVING SETS OR THE LIKE. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 29, 1928. Serial No. 27,328. Term of patent 7 years.



The ornamental design for a table for radio receiving sets or the like, as shown.

76,641. TABLE FOR RADIO RECEIVING SETS OR THE LIKE. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 29, 1928. Serial No. 27,329. Term of patent 7 years.



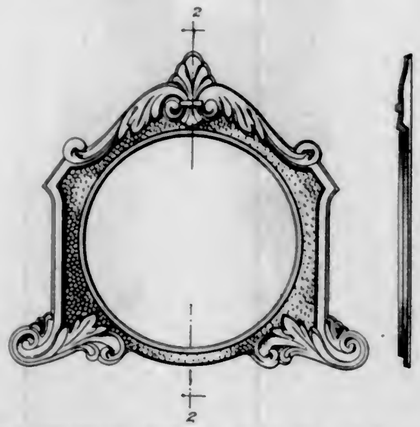
The ornamental design for a table for radio receiving sets or the like, as shown.

76,642. LAMP STAND. GEORGE SHROSBREE, Portland, Oreg. Filed Dec. 5, 1927. Serial No. 24,383. Term of patent 3½ years.



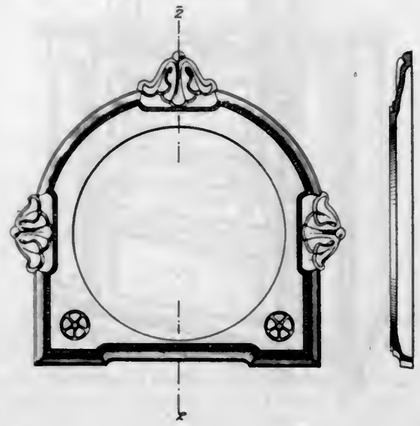
The ornamental design for a lamp stand, as shown.

76,643. ALARM-CLOCK FRAME. PAUL SIPTROTT, New York, N. Y. Filed May 3, 1928. Serial No. 26,556. Term of patent 3½ years.



The ornamental design for an alarm clock frame, as shown.

76,644. ALARM-CLOCK FRAME. PAUL SIPTROTT, New York, N. Y. Filed May 3, 1928. Serial No. 26,557. Term of patent 3½ years.



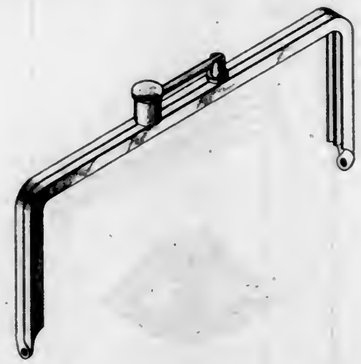
The ornamental design for an alarm clock frame, as shown.

76,645. TEXTILE FABRIC. WILLIAM HARVEY SPOWERS, Essex Fells, N. J. Filed May 3, 1928. Serial No. 26,547. Term of patent 3½ years.



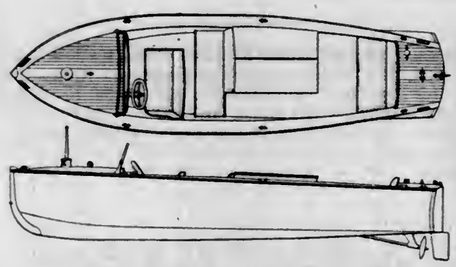
The ornamental design for textile fabric, as shown and described.

76,646. BAG FASTENER. BERNARD STEMBER, New York, N. Y. Filed Feb. 14, 1928. Serial No. 25,441. Term of patent 3½ years.



The ornamental design for a bag fastener as shown.

76,647. BOAT. LEON L. TRIPP, Albany, N. Y. Filed Apr. 2, 1928. Serial No. 26,099. Term of patent 14 years.



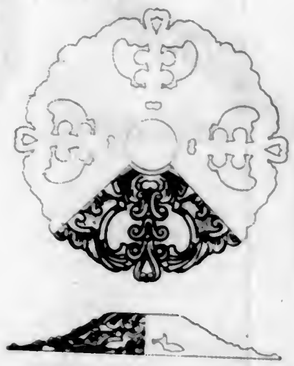
The ornamental design for a boat, as shown and described.

76,648. TEXTILE FABRIC. GABRIEL J. VIRGILE, Brooklyn, N. Y., assignor to Cheney Brothers, South Manchester, Conn., a Corporation of Connecticut. Filed May 29, 1928. Serial No. 26,906. Term of patent 14 years.



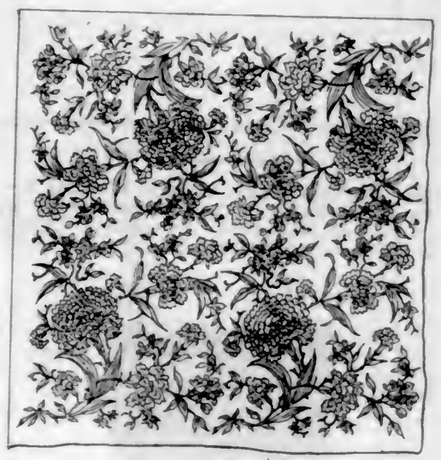
The ornamental design for a textile fabric as shown.

76,649. PLATE FOR LIGHTING FIXTURES. LESTER R. WELLMAN, Chicago, Ill. Filed May 24, 1928. Serial No. 26,835. Term of patent 3½ years.



The ornamental design for a plate for lighting fixtures, as shown and described.

76,650. EMBROIDERED FABRIC. JOHN WALDER, Union City, N. J., assignor to Monroe Embroidery Works, West New York, N. J. Filed Dec. 24, 1927. Serial No. 24,638. Term of patent 3½ years.



The ornamental design for an embroidered fabric as shown and described.

76,651. CABINET FOR SOUND-REPRODUCING MECHANISM. JOHN WHITSON, New York, N. Y. Filed July 14, 1928. Serial No. 27,489. Term of patent 14 years.



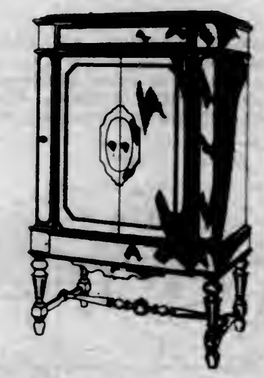
The ornamental design for a cabinet for sound reproducing mechanism as shown.

76,652. RADIOCABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc., a Corporation of New York. Filed Nov. 25, 1927. Serial No. 24,279. Term of patent 7 years.



The ornamental design for a radiocabinet, substantially as shown.

76,653. RADIOCABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc., a Corporation of New York. Filed Nov. 25, 1927. Serial No. 24,283. Term of patent 7 years.



The ornamental design for a radiocabinet, substantially as shown.

76,654. HEATING UNIT FOR ELECTRIC HEATERS. FRANK YOKEL, Cleveland, Ohio, assignor, by mesne assignments, to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Jan. 12, 1927. Serial No. 20,339. Term of patent 3½ years.



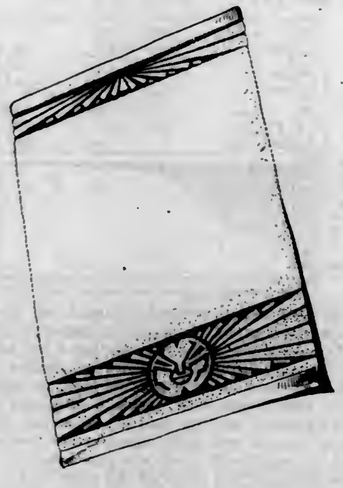
The ornamental design for a heating unit for electric heaters, as shown.

76,655. SIGNAL BOX. SOCRATES A. XIPPAS, Buffalo, N. Y. Filed Aug. 11, 1928. Serial No. 27,788. Term of patent 7 years.



The ornamental design for a signal box, as shown.

76,656. TOWEL. ROMAIN DE TIRTOFF, (ERTÉ), Paris, France, assignor to W. H. & A. E. Margerison & Co., Philadelphia, Pa., a Firm composed of William H. Margerison and Albert E. Margerison. Filed July 10, 1928. Serial No. 27,436. Term of patent 3½ years.



The ornamental design for a towel, as shown.

76,657. TOWEL. ROMAIN DE TIRTOFF, (ERTÉ), Paris, France, assignor to W. H. & A. E. Margerison & Co., Philadelphia, Pa., a Firm composed of William H. Margerison and Albert E. Margerison. Filed July 10, 1928. Serial No. 27,437. Term of patent 3½ years.

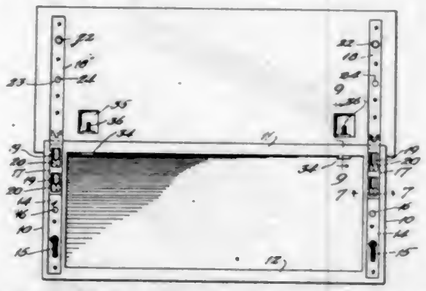


The ornamental design for a towel, as shown.

PATENTS

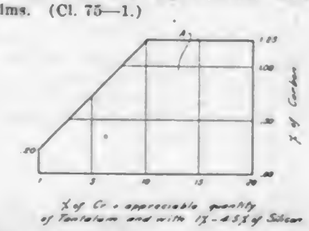
GRANTED OCTOBER 16, 1928.

1,687,485. CHEST LOCK. ANTHONY ARCADU, Peekskill, N. Y. Filed Dec. 6, 1927. Serial No. 238,185. 8 Claims. (Cl. 206—1.5.)



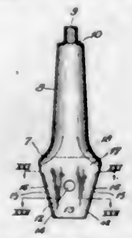
4. In combination, a chest having front, rear and end walls, a lid for said chest, a pair of plates mounted on the top of said end walls and each having a key hole slot adjacent its front end, a pair of hinges each having a short leaf slidably mounted on a respective plate at the rear end thereof, said hinges each having a long leaf secured to the underside of said lid, and a headed pin adjacent the free end of each long leaf and adapted to enter the wide end of the respective key hole slot and move into the narrow end by sliding of the hinge on the plate.

1,687,486. FERROUS ALLOY. PERCY A. E. ARMSTRONG, New York, N. Y. Filed Aug. 14, 1925. Serial No. 50,255. 8 Claims. (Cl. 75—1.)



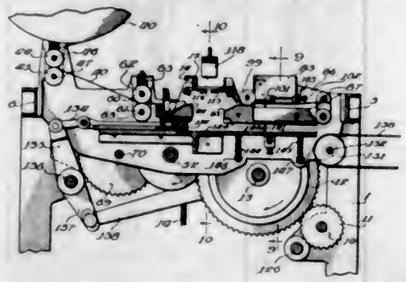
1. Ferrous alloy resistant to fluids at elevated temperatures containing approximately chromium 9%, carbon .50% silicon 3.5%, tantalum 3%, and the principal part of the remainder iron.

1,687,487. TUBULAR SPOKE AND METHOD OF MAKING IT. HERALD P. ARNT, Lakewood, and ERNEST JAMES ARNOLD, Cleveland, Ohio, assignors, by direct and mesne assignments, of one-fourth to Curt B. Muller, Cleveland, Ohio. Filed Apr. 15, 1924. Serial No. 706,679. 28 Claims. (Cl. 29—174.)



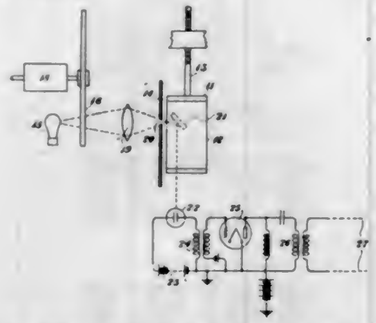
I. A tubular spoke composed of an integral piece of metal and having one end terminating as wings, some edge-bordering surfaces of wings being offset and in overlapped abutment with adjacent end surfaces of other of said wings.

1,687,488. PACKAGE WRAPPING AND BANDING MACHINE. HAZEN KIRKE BECKER and EMIL G. JURGENS, Chicago, Ill., assignors to Peters Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 30, 1927. Serial No. 179,568. 6 Claims. (Cl. 93—93.)



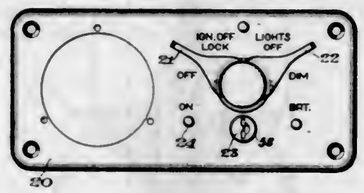
1. In a machine of the class described, a pair of stationary folding members spaced to receive a package therebetween and having upper surfaces for receiving a strip of tape, intermittently operated mechanism for feeding strips of tape across the upper surfaces of said folding members, means for applying glue to one end of said tape strips, a pair of hinged supports located above said folding members for receiving a package to be wrapped, yielding means for normally holding said supports in position to carry the package thereon, intermittently operated mechanism for supplying packages to said supports, a vertically movable depressor for shifting the packages downwardly into contact with the tape strips and thereafter moving the package and tape strip between said folding members for folding the tape against opposite sides of the package, a horizontally disposed stationary seat for receiving the package when depressed, a horizontally movable member for folding the unglued end of said tape strip against the top side of the package, a stationary folding and sealing member positioned adjacent the top edge of the package when resting on said stationary seat, and a horizontally movable pusher for shifting the package horizontally into engagement with said folding and sealing member for pressing the glued end of said tape strip against the unglued end thereof.

1,687,489. APPARATUS AND METHOD FOR ELECTRICAL TRANSMISSION OF PICTURES. DAVID E. BRANSON, Bloomfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 15, 1923. Serial No. 681,004. 2 Claims. (Cl. 178—6.)



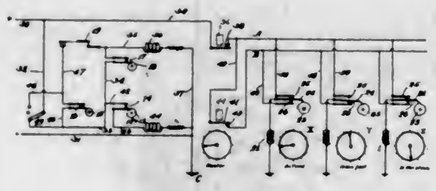
1. An electro-optical image producing system comprising a source of light for illuminating a picture or object an image of which is to be produced, means positioned intermediate said picture or object and said source of light for alternately transmitting and suppressing light from said source so as to interrupt the illumination of said picture or object, means for directing said light on to successive elemental areas in order of said picture or object, means for generating unidirectional current varying in amplitude in accordance with the intensity of the light received from the elemental areas of the picture or object, means for changing said unidirectional current into alternating current, and a transmission channel including an alternating current amplifying element for transmitting said alterating current to a distant station for controlling the production of an image of said picture or object.

1,687,490. LATCH SWITCH. STEPHEN F. BRIGGS and EDWARD N. JACOBI, Milwaukee, Wis., assignors, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 15, 1920. Serial No. 417,078. 18 Claims. (Cl. 200—44.)



1. In an electrical switch, a pair of switch members having operative positions and one of them having a locking position, and means for locking both switch members automatically when the said switch member is moved to the locking position.

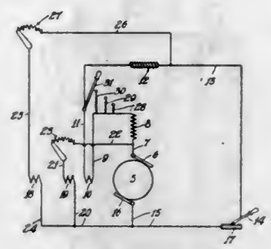
1,687,491. SYNCHRONIZING CLOCK. JAMES W. BRYCE, Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed June 26, 1924. Serial No. 722,439. 30 Claims. (Cl. 58—24.)



6. A secondary clock system including lines adapted to transmit normal impulses, fast impulses and for certain periods to omit the sending of impulses thereover, a secondary clock, an impulse magnet therein for driving the same, and means in said secondary clock controlled in its operation solely by the position of the said clock for selectively determining which form of impulses the said clock shall receive or whether said impulse magnet shall be placed in circuit with the line over which impulses are being omitted.

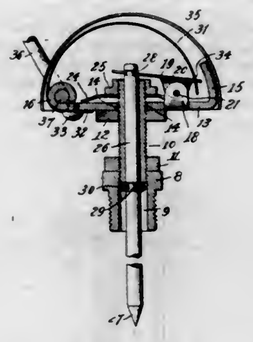
28. In combination, secondary clock driving mechanism, a plurality of conductors, each adapted to supply impulses for causing actuation of said driving mechanism, and switching means for alternately transferring the control of said driving mechanism from one to another of said conductors.

1,687,492. ELECTRIC WELDING APPARATUS. ALEXANDER CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed Aug. 8, 1924. Serial No. 730,816. 8 Claims. (Cl. 171—223.)



1. In a welding apparatus adapted to furnish current to a welding circuit, a self-excited generator having a series field winding constituting part of the welding circuit, electrodes located in said welding circuit, a shunt field, winding connected to the brushes of the generator, and a second shunt field winding connected to one brush of the generator and to the welding circuit between the series winding and one of said electrodes.

1,687,493. VALVE. CHARLES B. DRAKE, Norfolk, Va. Filed Jan. 28, 1926. Serial No. 84,517. 13 Claims. (Cl. 236—101.)

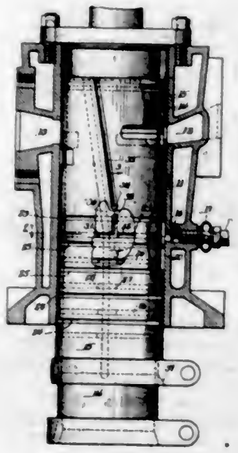


1. In combination with the intake manifold of an internal combustion engine, a valve for controlling the admission of the fuel mixture to the intake manifold, said valve including a body portion, a valve stem slidably mounted in the body portion, a lever pivotally connected to the body portion and engageable with the valve stem, a thermostatic member engageable directly with the lever, and means for conducting heat to the thermostatic member.

1,687,494. LUBRICATION OF SLEEVE-PRINCIPLE ENGINES. ROBERT B. FISHER, Detroit, Mich., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich., a Corporation of California. Filed Dec. 23, 1926. Serial No. 156,542. 21 Claims. (Cl. 123—196.)

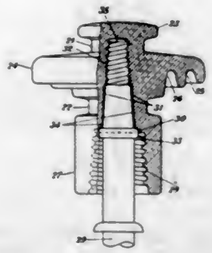
1. In an internal-combustion engine, an engine-cylinder having intake, exhaust and oil ports, means to apply suction at said oil-port, movable sleeves in said cylinder controlling said intake and exhaust ports, means to move said sleeves, means to contain a lubricant-supply, a conduit

connecting the sealing-head compartment of the engine with said lubricant-supply means opened and closed by the movement of at least one of said sleeves, and a con-



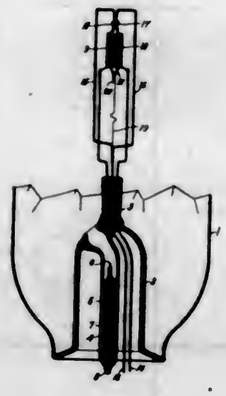
duit adapted to connect said sealing-head compartment with said oil-port opened and closed by the movement of at least one of said sleeves.

1,687,495. INSULATOR. CHESTER S. GORDON, Boonton, and JAMES T. LOWE, Newark, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 19, 1925. Serial No. 76,504. 3 Claims. (Cl. 173—28.)



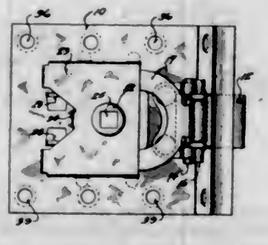
1. An insulator for transmission conductors comprising a unitary mass of dielectric material of a generally cylindrical form having a plurality of grooves in its outer surface for the accommodation of electrical conductors, and an interiorly screw-threaded opening for mounting the insulator upon a flanged pin, the diameter of said opening in the neighborhood of one of the external grooves being somewhat greater than the diameter of the supporting pin at that point, so as to provide an air-gap between the conductor mounted in the groove and the pin, the insulator being provided with a shoulder for co-operation with the corresponding flange upon the supporting pin, and the length of the interior opening above the shoulder being somewhat longer than the length of the pin above the flange, so that when the insulator is screwed upon the flange with the shoulder resting upon the flange, a small air-space will be provided between the upper part of the pin and the material of the insulator in the neighborhood of the upper groove.

1,687,496. INCANDESCENT LAMP. ERICH HENKEL, Treptow, Berlin, and HANS WOLFF, Berlin, Germany, assignors to General Electric Company, a Corporation of New York. Filed Nov. 8, 1927, Serial No. 231,987, and in Germany Dec. 7, 1926. 4 Claims. (Cl. 176—16.)



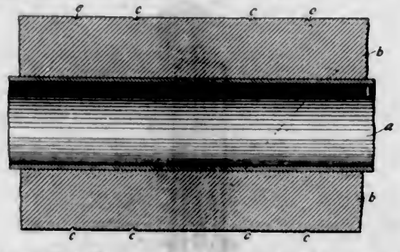
1. An electric lamp comprising a receptacle provided with a lighting body operable at incandescence, said receptacle containing a gaseous filling and in addition containing a halogen ammonium salt.

1,687,497. DOOR LATCH FOR AUTOMOBILES. EDWARD N. JACOBI, Milwaukee, Wis., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed June 2, 1924. Serial No. 717,333. 12 Claims. (Cl. 292—224.)



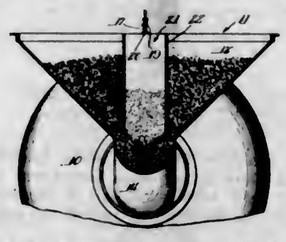
1. A door latch for automobiles and the like comprising a frame-plate bent to form an angular jamb-fitting flange having an opening therethrough, a bearing bracket separate from the frame-plate but attached to the back thereof, a bolt member pivotally mounted in the bracket near the angle between the flange and the frame plate and adapted to swing through the opening, a lug on the outer edge of the bolt to engage the edge of the opening, a pin through the bolt back of the flange, and a spring-pressed operating member pivotally mounted on said pin between the sides of the bolt.

1,687,498. PRINTING BLOCK OR CYLINDER. CARL JAEK, Bern, Switzerland, assignor of one-fourth to United Piece Dye Works, a Corporation of New Jersey. Filed May 7, 1924, Serial No. 711,542, and in Switzerland June 26, 1923. 7 Claims. (Cl. 101—395.)



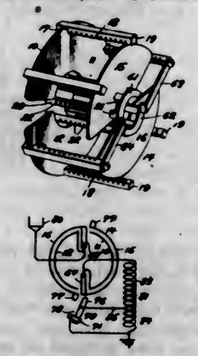
4. A printing block having a sand-blasted rubber face, and a metallic backing to which the rubber is vulcanized.

1,687,499. BATCH HOPPER. CHARLES S. JOHNSON, Champaign, Ill. Filed Mar. 12, 1926. Serial No. 94,157. 9 Claims. (Cl. 83—73.)



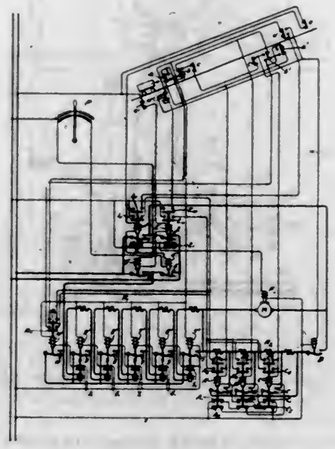
1. A batch hopper for concrete mixing machines comprising, in combination, a hopper for containing the aggregate having a tapering body portion and a discharge outlet, a gate arranged to control the flow of materials from said outlet, a cement hopper having a tapering body portion the lower end of which defines an opening narrower than said outlet, said cement hopper being mounted in said aggregate hopper and having its lower rear and lower side portions supported a substantial distance from the bottom and side portions of said aggregate hopper.

1,687,500. ELECTRICAL APPARATUS. RALPH H. LANGLEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 10, 1922. Serial No. 567,323. 5 Claims. (Cl. 250—40.)



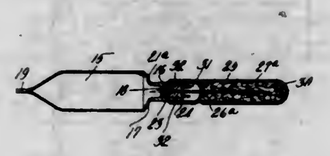
1. An electrical system comprising an adjustable condenser movable through successive ranges wherein its capacity changes from a minimum to a maximum, a reactance and means operably connected to said condenser for adjusting said reactance at the ends of said ranges.

1,687,501. CONTROL MECHANISM FOR HOISTS, LIFTS, AND THE LIKE. HUGH W. C. LIDDIARD, Rugby, England, assignor to General Electric Company, a Corporation of New York. Filed Mar. 31, 1926, Serial No. 98,875, and in Great Britain Apr. 6, 1925. 4 Claims. (Cl. 172—152.)



1. The method of controlling a motor driven device which consists in applying an acceleration effect to the device to effect acceleration thereof to substantially the normal running speed, continuing the running of the device at substantially said speed, and then before a limit of operation of the device is reached applying to the device a braking effect which is automatically varied in value in dependence on the extent of travel of the device during the accelerating period.

1,687,502. COLLAPSIBLE AMPUL SYRINGE. ERNEST H. MARCY, Belmont, Mass. Filed Apr. 17, 1924. Serial No. 707,295. 4 Claims. (Cl. 128—216.)

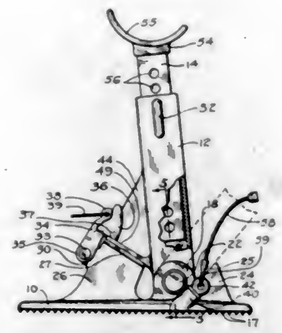


1. An ampul comprising an elongated collapsible shell having an integral penetrable closing wall at one end and being there adapted for connection with a hypodermic needle, and its walls at the other end being integrally joined together, said shell having between its ends a filling opening adapted to be integrally sealed after filling.

1,687,503. VEHICLE JACK. ROBERT G. MCKEE, Indianapolis, Ind. Filed Feb. 21, 1927. Serial No. 169,998. 5 Claims. (Cl. 254—94.)

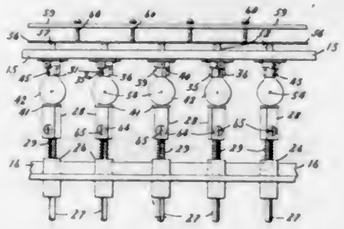
1. In a vehicle jack, comprising a lifting bar, journaled guide member for the bar, a base, a flexible tension member

adapted to attach to the base and to a wheel of the vehicle, said base provided with a pair of vertically disposed ribs,



the upper extremity of which terminate in transversely disposed surfaces for contact with the guide member.

1,687,504. PRECISION-BASING MACHINE FOR INCANDESCENT LAMPS AND SIMILAR ARTICLES. THOMAS O. MOFFIT, Chicago, Ill., and REGINALD K. BRAUNSDORFF, Newark, N. J., assignors to General Electric Company, a Corporation of New York. Filed Feb. 19, 1926. Serial No. 89,488. Renewed Oct. 18, 1927. 17 Claims. (Cl. 176—3.)



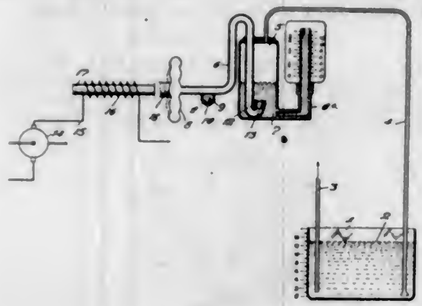
1. In a machine for basing electric incandescent lamps and other devices comprising a filament or other translating body, the combination of a holder for receiving an assembly comprising a base, and a bulb containing said translating body, means for uniting said base to said bulb, means for moving said holder to said base uniting means, and means for indicating the position of said translating body with reference to said base before said assembly reaches said uniting means.

1,687,505. ELECTRON-DISCHARGE DEVICE. HENRY J. NOLTE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 7, 1921. Serial No. 443,005. 12 Claims. (Cl. 250—27.5.)



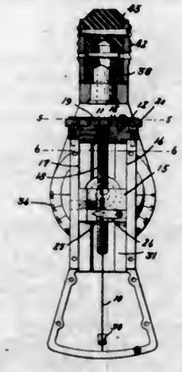
1. A grid structure for an electron discharge device comprising a plurality of wires interwoven to form a screen all of said wires extending in directions at an acute angle to the longitudinal axis of the grid.

1,687,506. LIQUID-LEVEL GAUGE. ABRAHAM NOVICK, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 8, 1926. Serial No. 86,736. 10 Claims. (Cl. 73—54.)



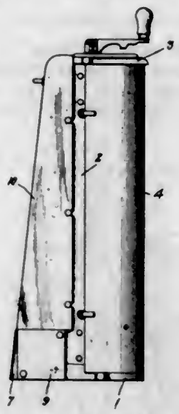
1. In a motor vehicle including an electric circuit and means producing casual variations of current flow therein, a device for indicating the depth of liquid in a tank, including a conduit extending into the tank and having a opening communicating with the liquid therein so as to be subject to the head of liquid on said opening and a gauge connected to be responsive to the pressure in the conduit, air pumping means for introducing air into the conduit to recalibrate the gauge, and means actuated by the casual variations of current flow in the electric circuit to operate said air pumping means.

1,687,507. VIBRATION METER. FRANK C. PERKINS, South Euclid, Ohio, assignor to General Electric Company, a Corporation of New York. Filed July 25, 1927. Serial No. 208,104. 6 Claims. (Cl. 73—51.)



1. A vibrometer comprising a base, a bracket swivelled to said base, a casing pivotally mounted on said bracket and a reed carried by said casing.

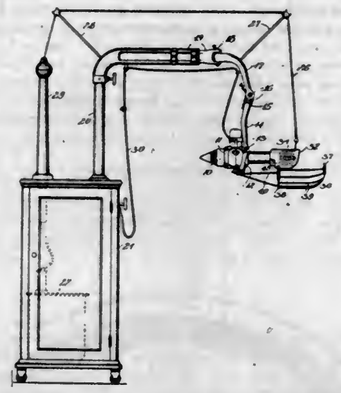
1,687,508. CONTROLLER. CHARLES L. PERRY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 18, 1926. Serial No. 89,248. 2 Claims. (Cl. 247—1.)



1. A controller comprising operable controller elements including terminals for the attachment of the ends of cables leading from outside of the controller, said terminals being located at the back of the controller, a frame in which said elements are mounted which comprises a base plate, a top plate and side bars, a separately installable member, located at the back and bottom of the controller adjacent the base and side bars thereof and having an opening for the passage of said cables, a cover cooperating with the top plate, base plate and side bars to form a casing for the front of the controller, a separately applicable back cooperating with the top plate, side bars and separately installable member to form a casing for the back of said controller over said terminals.

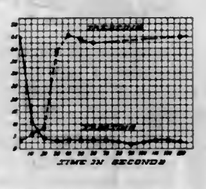
1,687,509. X-RAY APPLIANCE. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed Nov. 21, 1924. Serial No. 751,219. 3 Claims. (Cl. 250—34.)

1. In X-ray appliances the combination of an X-ray tube, a support for said tube comprising spaced collars and tie rods connecting the same, and a metal guard frame provided with means for adjustably and detachably se-



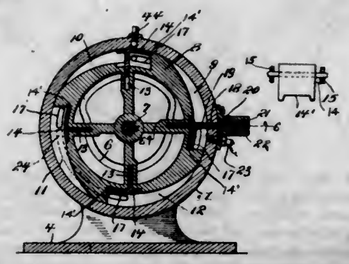
curing the same to said rods for maintaining an air gap about said tube.

1,687,510. ELECTRIC-LAMP BULB. MARVIN PIPKIN, Cleveland Heights, Ohio, assignor to General Electric Company, a Corporation of New York. Filed June 29, 1925. Serial No. 40,152. 2 Claims. (Cl. 176—34.)



1. A glass electric lamp bulb having its interior surface frosted by etching so that the maximum brightness of an ordinary incandescent lamp comprising such a bulb will be less than twenty-five per cent of that of said lamp with a clear bulb, said interior bulb surface being characterized by the presence of rounded as distinguished from sharp angular crevices to such an extent that the strength to resist breakage by impact is greater than twenty per cent of that of the clear bulb.

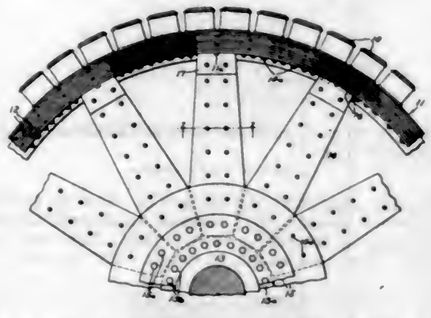
1,687,511. ROTARY INTERNAL-COMBUSTION ENGINE. ALVAH L. POWELL, Roundup, Mont., assignor, by mesne assignments, to The A. L. Powell Power Company, Incorporated, a Corporation of Montana. Filed Dec. 10, 1919. Serial No. 343,955. 3 Claims. (Cl. 123—14.)



3. A rotary explosive engine comprising a casing having an inlet and an outlet, a rotor arranged within the casing provided with a plurality of peripheral pockets,

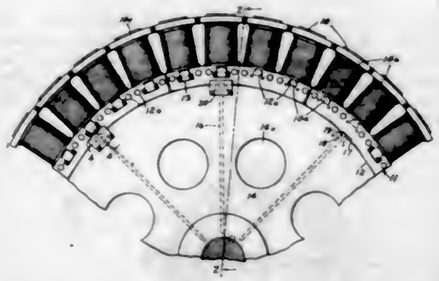
each of said pockets having a port leading thereinto adjacent the forward end thereof, a movable member arranged within each pocket and adapted to entrap therein the gaseous charge, said member provided with a ported area, means for moving said member at a predetermined point of travel of the rotor to force the charge to the opposite side of said member, an abutment arranged within the casing and adapted to coact with the movable member to hold the charge in the forward part of the pocket, and means to ignite the charge while entrapped within the pocket between the movable member and the abutment.

1,687,512. ROTOR. HENRY G. REIST, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 13, 1928. Serial No. 246,629. 5 Claims. (Cl. 171—252.)



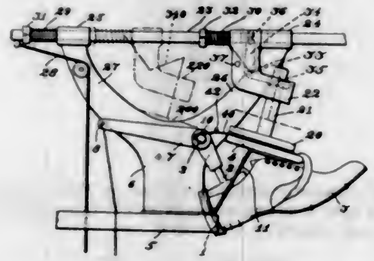
1. A rotor for dynamo-electric machines having a central supporting structure, a plurality of overlapping plates connected together to constitute a unitary annular body surrounding said central supporting structure, a plurality of pole pieces secured to said annular body and means for forming a driving connection between said central supporting structure and said annular body for guiding the latter in its movement away from and toward the former under the action of centrifugal force so that centrifugal force acting on said annular body will be resisted substantially altogether by tension stresses therein.

1,687,513. ROTOR. HENRY G. REIST, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 13, 1928. Serial No. 246,630. 2 Claims. (Cl. 171—252.)



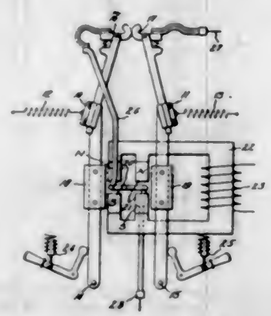
1. A rotor for dynamo-electric machines having a central supporting structure comprising a plurality of axially spaced annular plates and radially extending webs arranged between said plates, said webs being connected to said plates to form a rigid supporting structure, an annular body surrounding said central supporting structure, and means including keys carried by said webs for forming a driving connection between said central supporting structure and said annular body, said keys being arranged to provide for outward movement of said annular body relative to said central supporting structure independently thereof when they are subjected to centrifugal stresses, so that centrifugal forces acting on said annular body will be resisted substantially altogether by tension stresses therein.

1,687,514. MACHINE FOR INCORPORATING STIFFENERS IN BOOTS AND SHOES. FRED RICKS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 10, 1925, Serial No. 49 307, and in Great Britain Sept. 12, 1924. 14 Claims. (Cl. 12—52.)



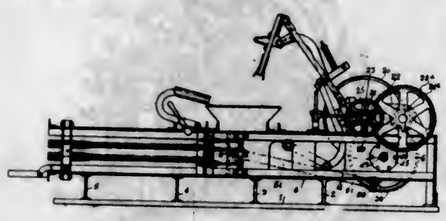
1. A machine for incorporating a stiffener in the upper of a shoe having, in combination, upper supporting means for facilitating the insertion of the stiffener by the operator, and means for pressing the stiffener into place.

1,687,515. CIRCUIT INTERRUPTER. FRANK ROBERSON, Gary, Ind., assignor to General Electric Company, a Corporation of New York. Filed Apr. 9, 1926. Serial No. 100,976. 7 Claims. (Cl. 200—94.)



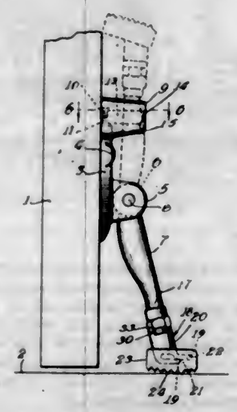
1. A high speed circuit interrupter for an electric circuit adapted to carry current in either direction comprising a pair of cooperating independently movable switch members operable together into circuit closing engagement and biased apart to interrupt the circuit jointly controlled thereby, electromagnetic means providing separate flux paths for holding each of said members in the circuit closing position, and means for providing additional flux paths for the holding flux of said electromagnetic means to release one of said switch members for operation to interrupt the circuit jointly controlled thereby in accordance with its bias upon a predetermined current flow in one direction in the circuit controlled by the interrupter and to release the other of said switch members for operation to interrupt the circuit jointly controlled thereby in accordance with its bias upon a predetermined current flow in the reverse direction in the circuit controlled by the interrupter.

1,687,516. PRESS. BRUCE ROLLMAN, Bellevue, Ohio, assignor to The Ohio Cultivator Company, Bellevue, Ohio, a Corporation of Ohio. Original application filed Nov. 16, 1925, Serial No. 69,392. Divided and this application filed May 3, 1926. Serial No. 106,337. 1 Claim. (Cl. 100—3.)



In a baler, a bed plate, side plates, upper and lower rails, said side plates extending above the upper rails, stud shafts carried in the lower portions of said side plates, and bearing members carried in the upper portions of said side plates for the driving and driven shafts which actuate gears carried on said stud shafts, gears, a thrust plate therebetween carried thereby and a pitman carried between said gears on said thrust plate at one end and on a reciprocating plunger at the other, adapted to reciprocate between said side plates.

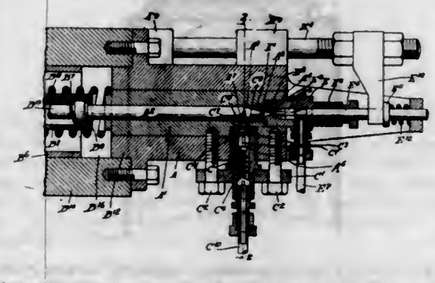
1,687,517. DOORSTOP. MICHAEL J. SASGEN, Chicago, Ill., assignor to Grand Specialties Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1926. Serial No. 89,977. 7 Claims. (Cl. 292—338.)



1. In a door stop, a strut member, a base, to which the strut member is pivotally mounted at one end to swing up and down, the strut member comprising a swinging lever and a shoe member mounted on the lever by means of a screw threaded connection, a nut for locking the shoe against rotation, a washer interposed between the nut and the shoe, means for preventing the rotation of the washer on the lever, the washer having a pair of oppositely extending projections at its circumference adapted to extend laterally from the lever to serve as lifting lugs.

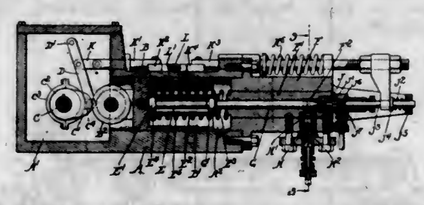
1,687,518. FUEL PUMP AND OIL-INJECTION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. PHILIP LANE SCOTT, Chicago, Ill., assignor to Super-Diesel Tractor Corporation, La Porte, Ind., a Corporation of New York. Filed Dec. 1, 1920. Serial No. 427,642. 14 Claims. (Cl. 123—140.)

1. A liquid atomizing system comprising a pump chamber, a liquid supply conduit, a suction valve therein, a spray nozzle, a conduit between it and the pump chamber, a discharge valve therein, a by-pass discharge passage leading from the pump chamber and a mechanically operated release valve controlling it, the conduit leading to the spray nozzle discharging from the pump chamber at a point appreciably below the highest point thereof, a pistop



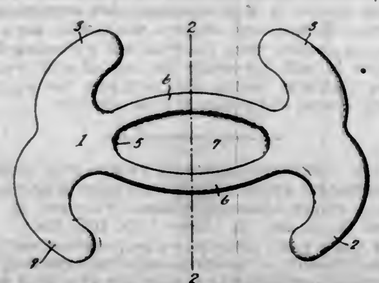
adapted to reciprocate in the pump chamber, having a pointed end, the pump chamber terminating in a conical portion substantially the same size and shape as the pointed end of the plunger, the by-pass discharge passage leading from the apex of such conical portion.

1,687,519. BY-PASS-VALVE CONSTRUCTION. PHILIP LANE SCOTT, Chicago, Ill., assignor to Super-Diesel Tractor Corporation, La Porte, Ind., a Corporation of New York. Filed Sept. 22, 1921. Serial No. 502,542. 7 Claims. (Cl. 123—140.)



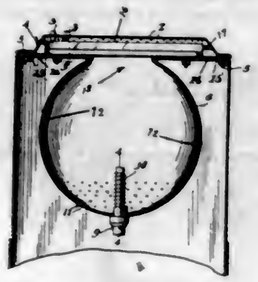
1. In combination with a pressure chamber and means for intermittently building up pressure therein, a discharge passage therefrom and a by-pass discharge therefrom, a closure for the by-pass normally held against opening, opening in response to pressure in the chamber, and means for intermittently releasing said closure to permit by-pass discharge away from supply, and separate means for seating said by-pass valve.

1,687,520. PICK-UP IRON. ERNEST J. SHAFFER, Tulsa, Okla. Filed Jan. 14, 1927. Serial No. 161,222. 4 Claims. (Cl. 24—230 5.)



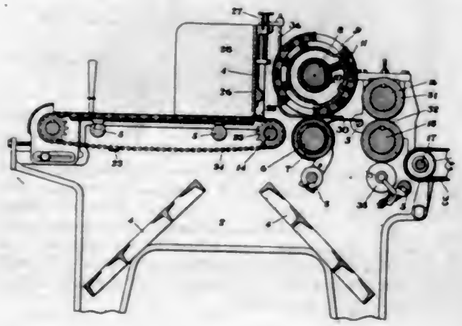
1. A pick-up iron comprising a body portion from each end of which hooks extend in opposite directions, the hooks occurring on one side of the longitudinal axis of the body portion being spaced further apart than those occurring on the other side of said axis.

1,687,521. ELECTRIC HEATER. ELBERT STALLWORTH, Americus, Ga. Filed Dec. 19, 1927. Serial No. 241,104. 1 Claim. (Cl. 219—38.)



In an electric heater, a casing, a spherical heating chamber suspended from the top of said casing, a heating unit extending vertically into said heating chamber through a hole in the lowest portion thereof, perforations in the bottom of said heating chamber about said heating unit, a circular air passage through the upper portion of said heating chamber, a perforated top for said casing and a water receptacle supported under said perforated top to moisten the hot air which passes through said perforated top.

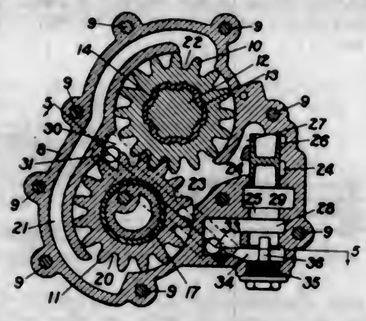
1,687,522. ATTACHMENT FOR PAPER-SLOTTING MACHINES. EDWIN G. STAUDE, Minneapolis, Minn. Filed Dec. 31, 1923. Serial No. 683,773. 17 Claims. (Cl. 164—68.)



1. A paper stock slotting machine comprising a revolving member having a peripheral slot provided with cutting edges, a second revolving member, a knife mounted thereon between which and the edges of said slot the paper stock is sheared to form a tongue, said knife having a transverse cutting edge, adapted to partially sever said tongue transversely from the stock and a cleaning device operating in said slot nearer the axis of said revolving member than said cutting edge to engage the tongue so partially severed and remove it from said slot.

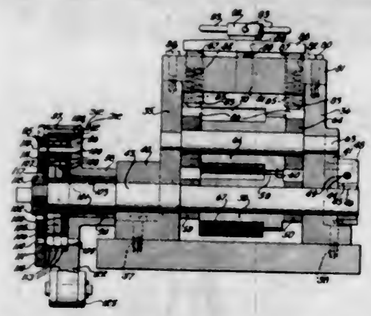
1,687,523. FLUID-PRESSURE PUMP FOR POWER-PROPELLED VEHICLE-CONTROLLING MEANS. EDWIN G. STAUDE, Minneapolis, Minn. Filed Feb. 15, 1926. Serial No. 88,422. 13 Claims. (Cl. 103—126.)

1. A rotary pump comprising a gear chamber and meshing gears therein, an intake passage communicating with the chamber and delivering to each gear at a point remote from the meshing zone of the gears, a bore having a valve reciprocable therein, an outlet passage communicating with the bore intermediately, passages communicating with the bore at opposite sides of said outlet passage and respectively with said gear chamber at opposite sides of and adjacent the meshing zone of the gears, the arrangement being such that fluid pressure set up adjacent one end of the bore will cause the valve to move toward the opposite



end, opening the pressure side of the pump to the outlet and closing the opposite side to said outlet, said intake passage, bore and one other passage being in the same plane with the gears.

1,687,524. MATERIAL-FEEDING DEVICE. ANDREW BENJAMIN SMITH, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1926. Serial No. 151,816. 9 Claims. (Cl. 271—2.4.)



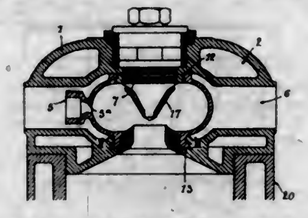
1. In a material feeding apparatus, a plurality of feed rolls, a shaft, means for operatively connecting the rolls to the shaft, a plurality of ratchet wheels rigidly mounted in staggered relation upon the shaft, a plurality of ratchet-engaging means adjacent the ratchet wheels, and means for intermittently actuating the ratchet-engaging means for imparting rotary movement to the ratchet wheel and thereby advancing the feed rolls.

1,687,525. FLAMEPROOF ELECTRIC INSULATION AND METHOD OF PRODUCING THE SAME. EARL GROVER STURDEVANT, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 9, 1924. Serial No. 754,735. 2 Claims. (Cl. 106—13.)

1. Electrical insulation comprising substantially twenty parts of rubber, twenty-five parts of chlorinated naphthalene, two parts of a vulcanizing agent, ten parts of a substance for accelerating vulcanization, and thirty-three parts of silica.

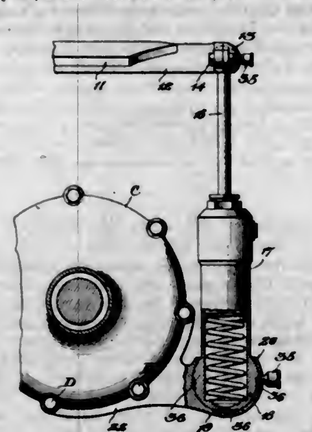
1,687,526. CYLINDER HEAD FOR INTERNAL-COMBUSTION ENGINES. EUGÈNE HENRI TARTRAIS, Montmorency, France. Filed Jan. 14, 1926, Serial No. 81,142, and in France Jan. 21, 1925. 4 Claims. (Cl. 23—32.)

1. A cylinder head for internal combustion engine working with liquid fuel comprising in combination: a cooled outer casing, an inner wall limiting a central combustion chamber and having flanged edges at the upper and lower



parts, imbedded in said casing when casting the latter, and a fuel atomizer opening into said combustion chamber.

1,687,527. SHOCK ABSORBER. CLARANCE W. THOMPSON, Wilmington, Del., assignor to Thompson Spring Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 25, 1924. Serial No. 728,197. 2 Claims. (Cl. 267—8.)



1. A movement-restraining device for motor-vehicles comprising a casing having an end portion of substantially spherical contour arranged to be disposed in a socket of a fitting, said casing containing a chamber of substantially uniform transverse dimension extending throughout the major portion of its length and into said substantially spherical end portion, and a member reciprocable in said chamber arranged to be connected with another fitting.

1,687,528. SHOE AND METHOD OF SHOEMAKING. PERCY W. VALENTINE, Cambridge, Mass. Filed June 13, 1925. Serial No. 36,838. 11 Claims. Cl. 36—17.)



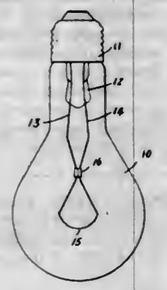
1. The method of making shoes which consists in separately securing an upper and a welt together, separately securing an inner sole and a second sole together, lasting said upper, securing said welt to said second sole, and securing an outer sole to said welt and second sole.

1,687,529. STITCHDOWN SHOE AND METHOD OF MAKING. PERCY W. VALENTINE, Cambridge, Mass. Filed Mar. 2, 1927. Serial No. 172,150. 6 Claims. Cl. 36—16.)



1. A stitchdown shoe comprising an innersole and a doubler independently united to one another with the edge part of the doubler projecting, an upper and its lining, the innersole having a channel in its edge in which the edge of the lining is confined, the upper being turned out at its lower edge and secured to the projecting edge part of the doubler, and an outer sole independently secured to the doubler and upper.

1,687,530. AUTOMATIC CUT-OUT FOR ELECTRIC INCANDESCENT LAMPS. IRVING H. VAN HORN and WILBUR A. PIPKIN, East Cleveland, Ohio, assignors to General Electric Company, a Corporation of New York. Filed Mar. 11, 1924. Serial No. 698,502. 3 Claims. (Cl. 176—24.)



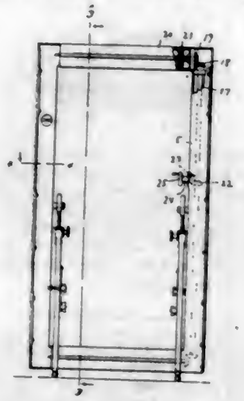
1. In an electric incandescent lamp, the combination of a bulb containing a non-oxidizing atmosphere, a filament mounted within said bulb, a stem sealed within said bulb, a pair of conductive supports for said filament sealed in the inner end of said stem, and a member consisting of a conductive support having thereon a coating of insulation adapted to be broken down under abnormal conditions mounted between said supports and within said bulb, said member serving to hold the said conductive supports in close proximity to each other.

1,687,531. KNOB AND KNOBLIKE DEVICE. FRITZ EGON VERSE, Iserlohn, Germany, assignor to the Firm: Westfälische Metallwarenfabrik G. m. b. H., Iserlohn, Germany. Filed June 15, 1927. Serial No. 198,875. 5 Claims. (Cl. 292—347.)



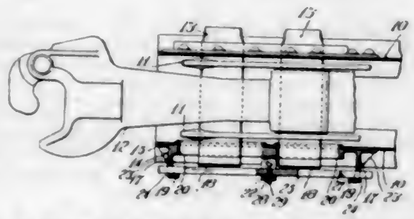
1. In a door knob the combination comprising a knob having a plurality of indents at its bottom, a cup holding the aforesaid knob by its inwardly bent rim, a plurality of resilient sleeves frictionally held in nested arrangement in the lower part of aforesaid cup, and a plurality of teeth on the outer sleeve engaging the aforesaid indents in the bottom of the knob.

1,687,532. DOORFRAMING DEVICE. HENRY GEORGE WALTKE, Jersey City, N. J. Filed Aug. 19, 1927. Serial No. 214,123. 4 Claims. (Cl. 33—197.)



1. In a device of the class described, a sectional frame, each section including a vertically disposed frame member having upper and lower horizontally disposed frame members at each end thereof, means provding for the telescopic engagement of the horizontal members of each of said sections, means for adjusting said horizontal members with respect to each other, indicating means carried by one of said members adapted to determine the uniform adjustment for the upper and lower horizontal members and a carriage pivotally supporting each of said sections.

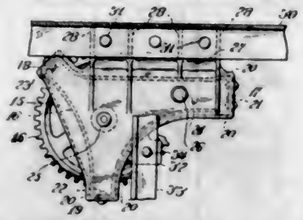
1,687,533. COMBINED CHEEK PLATE AND DRAFT-KEY ANCHOR. WILLIAM WRIGHT, Chicago, Ill., assignor to E. Payson Smith, Springfield, Ill. Filed Aug. 6, 1925. Serial No. 48,448. 5 Claims. (Cl. 213—54.)



1. A device of the character described, comprising a single piece metallic plate slotted longitudinally an adapted to be secured to the center sill of a railroad car, the ends of the plate being disposed laterally toward one side of the plate and having aligned openings therethrough, and a bar or rod insertible through said aligned openings lengthwise of the plate so as to be disposed across the slotted portion thereof.

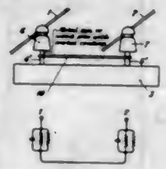
1,687,534. BRAKE-GEAR MOUNTING. WILLIAM WRIGHT, Chicago, Ill., assignor to E. Payson Smith, Springfield, Ill. Filed Apr. 10, 1926. Serial No. 101,157. 2 Claims. (Cl. 74—121.)

1. In a brake gear mounting, the combination of a center sill member, and a bottom door slide-rail, with a gear housing composed of a three-sided top plate having depending legs at the junctures of the marginal edges, an integral center sill engaging portion disposed laterally from a marginal edge of the top plate and arranged in a horizontal plane thereabove, an extension disposed laterally from another marginal edge of the top plate for attachment to said slide-rail, and a Y-shaped bottom plate for supporting the gear elements, the ends of the arms of the bottom plate extending upwardly and secured to the depending legs of the top plate, one arm of the bottom plate having the driving



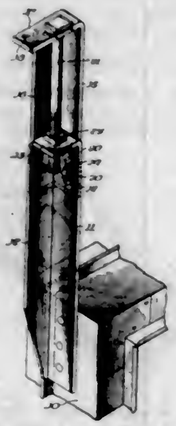
portion of the gearing journaled thereon while the driven portion of the gearing is journaled at the juncture of two arms of the bottom plate.

1,687,535. REDUCTION OF LOSSES IN INSULATORS, PINS, AND CROSS ARMS. HERMAN A. AFFEL, Maplewood, and ESTILL I. GREEN, East Orange, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed July 1, 1925. Serial No. 40,934. 3 Claims. (Cl. 173—251.)



1. A pole line construction comprising conductors strung along a pole line in pairs, the conductors being mounted upon insulators supported by pins carried by cross-arms upon the poles, one conductor of each pair acting as a return for the other, and means to reduce the transmission loss over the conductors, said means comprising insulators the ratio of whose external diameter to pin diameter is not much less than 4, in combination with a non-magnetic conductor for substantially short-circuiting the conductance of the cross-arms and supporting pins.

1,687,536. CLAMP FOR FRAMES. ISAAC A. BAUM, Chicago, Ill. Filed Oct. 6, 1927. Serial No. 224,367. 8 Claims. (Cl. 189—46.)



1. The combination with a frame for wall openings, of a member angular in cross-section, a second angular member loosely secured thereto and longitudinally slidable

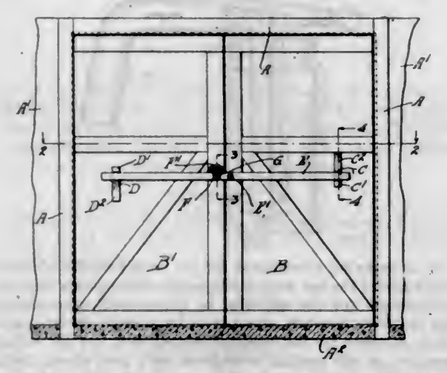
thereon, abutments provided on said two members, and a screw member bearing on and acting between said abutments and adapted to exert a thrust tending to slide the two members in a longitudinal direction.

1,687,537. METAL DOOR. WILLIAM R. BRACE, Newark, N. J. Filed June 16, 1926. Serial No. 116,293. 3 Claims. (Cl. 189—46.)



1. In structural hollow sheet metal construction, the combination of opposite side walls one having an inturned edge portion provided at spaced parts of its length with moldings, panels secured to the edges of said moldings, a flange strip secured to the inside of said side wall back of its inturned edge in the space between said moldings and having with respect to the side walls a transverse portion and a parallel portion with an outwardly bent marginal flange, a spacer secured to said flange strip in engagement with said transverse and parallel portions thereof and the opposite wall, and a bar having a marginal flange forming a lock seam with said marginal flange of the flange strip.

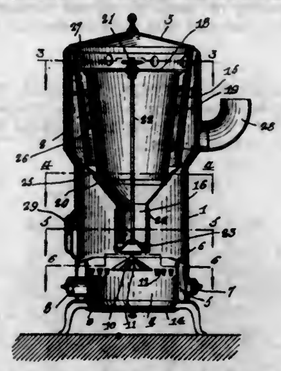
1,687,538. FASTENING. GEORGE E. BRADBURY, Chicago, Ill. Filed June 5, 1925. Serial No. 35,046. 3 Claims. (Cl. 292—259.)



1. As a means for fastening in closed position a pair of closures, a fastening bar movably mounted on one of said closures adapted to extend partially across it and the other, a bar engaging latch mounted on the second closure and adapted when the same is moved into the closed position to engage the bar, and a pair of wedge blocks mounted one on the inside of each of such closures, each adapted to engage one end of the fastening bar when the same is in the fastening position.

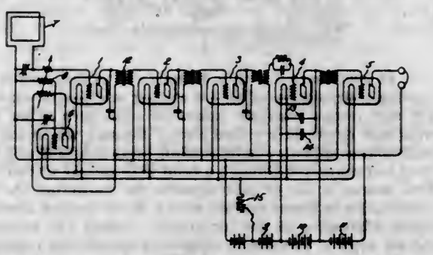
1,687,539. HEATER FOR SAWDUST OR COAL DUST. ARTHUR O. BRUNETTE, Kelowna, British Columbia, Canada. Filed May 11, 1925. Serial No. 29,533. 4 Claims. (Cl. 126—225.)

3. A heater comprising a casing, a grate supported within said casing, a shell supported from the top of the aforesaid casing within the same and having a convergent lower end, a tapered tubular member extending upwardly from the convergent lower portion of the shell forming a hopper spaced from the upper part of said shell, openings arranged in the convergent part of the shell at the outward side of the hopper, openings at the top of the shell communicating



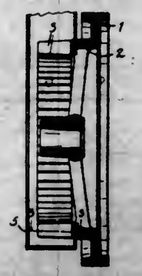
with the interior of the main casing, and a flue leading from the main casing above the convergent lower end of the hopper.

1,687,540. AMPLIFYING SYSTEM. WENDELL L. CARLSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 22, 1925. Serial No. 77,111. 2 Claims. (Cl. 179—171.)



1. The combination in a signal amplifying system of a plurality of electron discharge amplifiers connected in cascade for amplifying radio frequency currents, a detector connected to detect the amplified radio frequency currents, common batteries for supplying cathode heating currents and plate currents to all of said amplifiers and said detector in parallel, and a pair of capacities connected in shunt from the plate to opposite terminals of the cathode of said detector for preventing a feed-back to the input circuits of the amplifiers by reason of resistance coupling due to the use of common batteries.

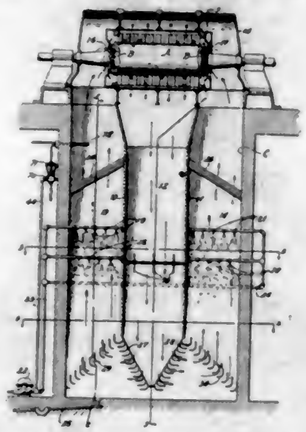
1,687,541. TURBINE-FAN STRUCTURE. WILLIAM F. CARMICHAEL, Lansing, Mich., assignor to New Way Motor Company, Lansing, Mich. Filed Oct. 22, 1925. Serial No. 64,160. 2 Claims. (Cl. 230—135.)



1. In a cooling fan structure for an internal combustion engine, the combination with the fly-wheel, of an auxiliary peripherally bladed fan rim cast thereon with integral

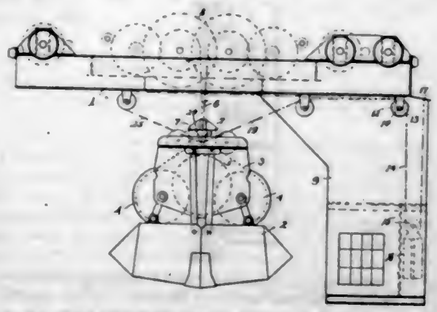
curved turbine peripheral fan blades free at their outer ends and tapered to permit of casting, and a volute open at both sides surrounding the same to provide intakes to deliver air to the fan blades at both sides of the fan, coacting as specified.

1,687,542. COOLING SYSTEM. WILLIS H. CARRIER, Essex Fells, N. J., assignor to Buffalo Forge Company, Buffalo, N. Y. Filed July 28, 1921. Serial No. 488,116. 10 Claims. (Cl. 261—115.)



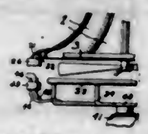
1. In combination with a device to be cooled, means for causing a circulation of air for cooling said device, air supply and return conduits connected with each other and with said device in a closed circuit through which the air recirculates, said air supply conduit being substantially vertical and connected through a bend with the air return conduit, means in one of said conduits for subjecting the circulating air to direct contact with a finely divided liquid, a liquid eliminator in the air supply conduit for receiving the air after it leaves said subjecting means and removing therefrom entrained unvaporized liquid, and partitions located in the connection between said conduits at the points of change of direction of travel of the air, for dividing the connection at those points into a plurality of sub-conduits for changing the direction of the air, as it passes from one conduit to the other, without the formation of eddies for an unequal distribution of the air throughout said other conduit, said eliminator being arranged at an inclination to the horizontal and obliquely to the direction of travel of the air along the air supply conduit.

1,687,543. CABLE SUSPENSION FOR HOISTING BUCKETS. ARTHUR F. CASE, Cleveland, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 15, 1925. Serial No. 30,491. 6 Claims. (Cl. 214—115.)



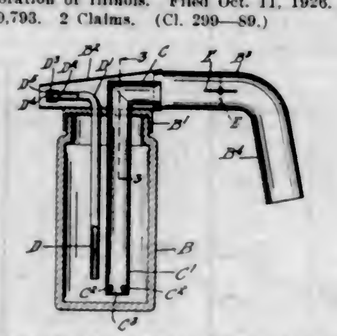
1. In a device of the character described, a supporting structure, a load carrying member, hoisting means mounted on said structure and including a hoist cable connected to said member, a series of downwardly converging steadying cables extending from said structure to said load carrying member, drums upon which said cables are wound, and means independent of the hoisting means for simultaneously operating the drums to maintain said cables under tension.

1,687,544. ELECTRIC FAN AND HEATER. JAMES E. CLARK and THOMAS E. CLARK, Detroit, Mich. Filed Nov. 16, 1925. Serial No. 69,550. 1 Claim. (Cl. 219—42.)



In an electric fan and heater, the combination of a bell shaped housing having apertures in its flaring portion, an electric motor mounted in the smaller portion of the bell, a fan mounted on the outer end of said motor, a bowl-shaped heater casing detachably connected to said bell at their edges, heating elements within said bowl, said bowl having a central discharge opening, conductor wires for said heating elements, and a separable two-part connector for said conductor wires, one part being attached to the bell and the other to the bowl to permit ready detachment and attachment of the bowl and heater.

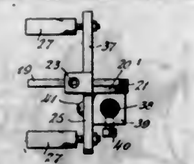
1,687,545. SPRAYING DEVICE. WILLIAM J. CLEMENTS, Chicago, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1926. Serial No. 140,793. 2 Claims. (Cl. 299—89.)



2. A spraying attachment for use with portable blowers, and adapted for use with liquids and solids, which includes a container for the material to be sprayed, a removable cap or cover member, adapted to be secured thereto, said cover member having associated therewith an air nozzle member, an air conduit associated with said nozzle member, said conduit terminating at its opposite end in a portion adapted to receive the end of a flexible tube, such end portion being downwardly turned in relation to said nozzle, such downwardly turned portion being adapted to serve as a handle, a valve in said air conduit, an air inlet passage member having its inlet opening positioned within said nozzle and opening toward said handle member, and extending downwardly into said container to a level closely adjacent the bottom of said container, an outlet member extending downwardly from said nozzle into said container and terminating, at its upper end, within said nozzle, the cross sectional area of the air inlet passage being substantially greater than that of the outlet member.

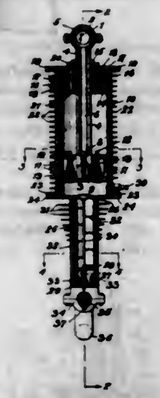
1,687,546. BRACKET FOR THREAD CLEANERS. PETER DAUGHET, Wilkes-Barre, HENRY FREY, Kingston, and JOHN J. DUNLEAVY, Plymouth, Pa. Filed June 30, 1927. Serial No. 202,505. 4 Claims. (Cl. 28—70.)

1. A bracket for thread cleaners including a cleaner plate-supporting portion having an opening therein for receiving cleaner plates, an extension projecting from said portion and having a surface in a plane with and forming a continuation of one wall of said opening and upon which said plates are supported when inserted through said opening, thread guide-supporting arms extending from



opposite sides of said portion and at the inner end of said extension, and a stop formed on said extension at the outer end thereof against which abut the adjacent ends of said cleaner plates.

1,687,547. INTERNAL-COMBUSTION ENGINE. JOHN E. DE BAUN, Saddle River, N. J. Filed June 21, 1927. Serial No. 200,410. 8 Claims. (Cl. 123—50.)



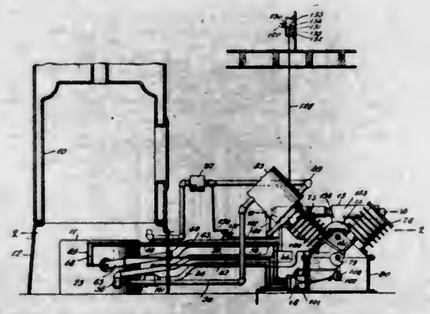
1. In an internal combustion engine, a fixed piston, a cylinder surrounding the same and adapted to reciprocate relative thereto, a crank shaft and an extension on said cylinder connected to said crank-shaft, said extension being tubular and constituting an exhaust passage.

1,687,548. VALVE. CHARLES BRITTAIN DRAKE, Norfolk, Va. Filed Oct. 11, 1926. Serial No. 140,929. 7 Claims. (Cl. 236—101.)



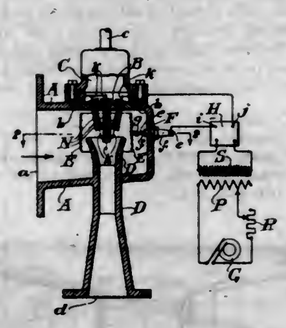
1. A valve of the character described including a sleeve having a flange formed thereon, a plate adapted to be received upon said flange, a valve stem slidable relative to the sleeve, and a thermostatic member connected to the plate and to the valve stem.

1,687,549. OIL-BURNING HEATING SYSTEM. WILLIAM BARTON EDDISON, Irvington, N. Y. Filed July 10, 1923. Serial No. 650,572. 10 Claims. (Cl. 158—1.)



1. The combination with a burner for supplying heat to heat-utilizing means, of a heat engine operable by a minor portion of the heat generated in full capacity operation of the burner, means for diverting from the heat-utilizing apparatus a portion of the heat generated in the burner sufficient to operate the engine, a positive pump operated by the engine for supplying liquid fuel to the burner, and a blower operated by the engine for forcing into the burner air sufficient to support the combustion of the fuel.

1,687,550. METHOD OF AND APPARATUS FOR COMPRESSING FLUID. CORNELIUS D. EHRET, Philadelphia, Pa. Filed Feb. 24, 1922, Serial No. 539,043. Renewed Feb. 15, 1926. 28 Claims. (Cl. 230—95.)

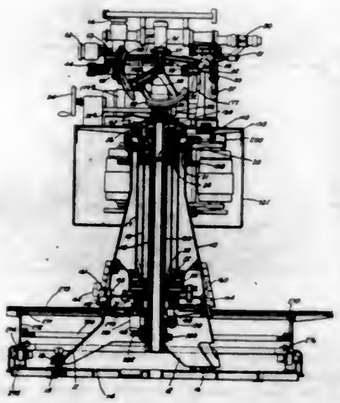


7. The method of raising the pressure of elastic fluid, which consists in expanding elastic motive fluid into a jet of high velocity, producing an electric field adjacent the jet, causing the fluid to be compressed to traverse said field to the jet, and converting the velocity of the fluid mixture into pressure.

1,687,551. CONTROL OF ORDNANCE. ALVARADO L. R. ELLIS, Swampscott, and CHESTER W. GREENE, Lynn, Mass., assignors to General Electric Company, a Corporation of New York. Filed June 4, 1925. Serial No. 34,950. 36 Claims. (Cl. 33—49.)

1. Gun directing apparatus comprising a sighting device adjustable about train and elevation axes, means for transmitting the movements of said sighting device about said axes to a remote receiving station, means for moving said sighting device about said axes independently of

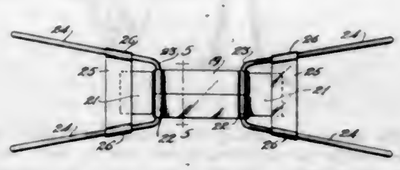
said transmitting means to introduce corrections for inclination of the trunnion axis of the gun, and means for readjusting said sighting device about said axes whereby said corrections are applied to said transmitting means.



8. Gun directing apparatus for ships comprising a sighting device mounted for movement about elevation and train axes, a gun pilot mounted for independent movement about elevation and train axes, a link forming a connection between said gun pilot and said sighting device, and means for maintaining said link in a predetermined angular position regardless of the rolling and pitching movements of the ship whereby corrections are introduced in train and elevation.

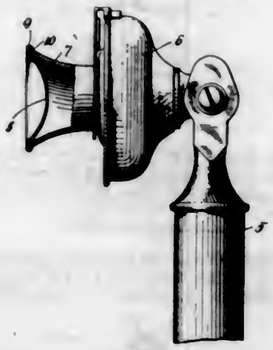
17. Gun directing apparatus comprising three members rotatable about a common axis, a sighting device mounted on one of said members, an operating connection betwen said member and a second of said members including means for introducing parallax corrections, and an operating connection between said second member and the third of said members including means for generating and introducing the train componets of the range and deflection corrections.

1,687,552. BOX LIFTER. HENRY FARSBENDER, Council, Idaho. Filed Apr. 29, 1927. Serial No. 187,640. 1 Claim. (Cl. 294—16.)



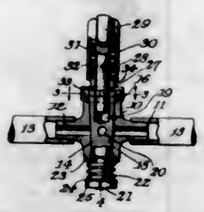
A lifter of the class described comprising a body having eyes at its upper end portions and having its ends projecting to form stops, tong members each consisting of a rod passing through a respective eye for pivotal connection to the body and each bent to provide a pair of legs having their extremities forming box gripping toes, and plates extending between the legs of a respective pair and cooperating with the extensions to engage the same and limit downward movement of the legs, said body consisting of a sheet metal tube and the extensions of the body consisting of continuations of the sheet metal of the bottom part of the tube doubled back upon each other for reenforcing the extensions.

1,687,553. SANITARY TELEPHONE MOUTHPIECE. SAMUEL FRIEDLANDER, Astoria, and THEODORE GEISMAR, Jamaica, N. Y. Filed Apr. 14, 1927. Serial No. 183,712. 1 Claim. (Cl. 179—184.)



A sanitary cap for telephone mouthpieces comprising a circular disc of waxed paper presenting an unbroken concave face and having a flanged periphery adapted to engage over the rim of the mouthpiece.

1,687,554. LEAKAGEPROOF SPRING-SECURED SAFETY VALVE. EUGENE GANSFRIED, New Brunswick, N. J. Filed May 17, 1926. Serial No. 109,630. 6 Claims. (Cl. 251—165.)

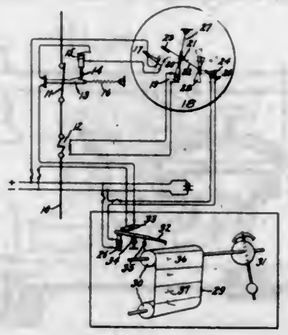


1. In a safety valve having a body with openings to a service line, a rotatable plug in the body with a transverse bore therein adapted to communicate with said openings in the body and means to permit the rotation of said plug but to keep the same in fixed relative position laterally to the service line; a slidable stem with a handle thereon said stem being secured in an axial bore in the plug, a cross pin through said stem slidable therewith in a slot in said plug and adapted to be rotated in a groove in the body when in registering relation therewith, said groove having two diametrically opposed slots in the body communicating therewith and adapted to receive the ends of said pin, their position being such that the transverse bore in the plug will be out of alignment with the openings in the body when the pin is in said slots in the body; a resilient element interposed between a shoulder on said stem and the body of the valve to normally move said pins into said slots in the body and prevent the rotation of the plug.

1,687,555. RECORDING APPARATUS FOR RELAYS. ERNST GAGIOROWSKI, Hermsdorf, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Oct. 28, 1926. Serial No. 144,883, and in Germany Feb. 2, 1926. 8 Claims. (Cl. 234—1.5.)

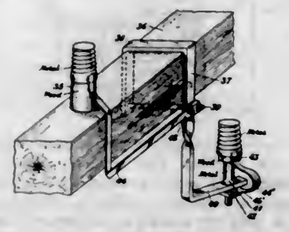
1. Recording apparatus comprising a continuously moving record sheet, a recording stylus cooperating therewith, means for normally holding said stylus out of recording position, means responsive to one condition to be recorded

for releasing said stylus and allowing it to move into recording position, and means responsive to a different



condition to be recorded for moving said stylus in an angular direction with respect to the movement of said record sheet.

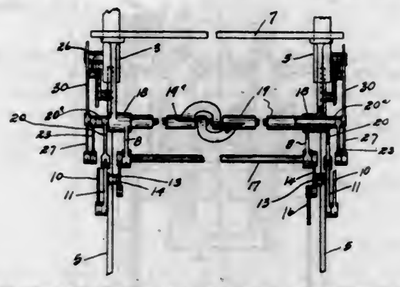
1,687,556. REDUCTION OF ATTENUATION DUE TO THE CONDUCTANCE LOSSES IN CROSS ARMS AND INSULATOR PINS. CHESTER S. GORDON, New York, N. Y., and JAMES T. LOWE, Newark, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed July 1, 1925. Serial No. 40,895. 6 Claims. (Cl. 173—251.)



1. In a pole line construction comprising a pair of conductors strung along on poles with cross-arms carrying insulators mounted upon pins, one of said conductors acting as a return for the other, means to short-circuit the conductance of the cross-arm and its insulator pins between the insulators of the two wires of the pair comprising conductive thimbles of non-magnetic material provided with screw threads to co-operate with the threads upon the pins, a conductive strip of non-magnetic material connected to each thimble for electrically connecting the thimble corresponding to one wire of the pair through a low resistance circuit to the thimble corresponding to the return wire of the pair, the insulators being screwed upon the screw threads of the thimbles.

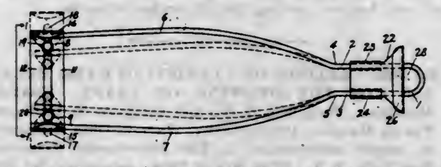
1,687,557. VALVE GEAR. ADELBERT E. HALL, Bay City, Mich. Filed Sept. 27, 1919. Serial No. 326,762. 8 Claims. (Cl. 121—116.)

1. In combination with a locomotive engine, a valve gear including transverse coaxially arranged shafts adapted to extend across the engine and each consisting of a reduced section and a tubular section, of substantially uniform length having their adjacent ends spaced apart at the center of each shaft, the tubular section of each shaft being sleeved on the reduced section of the other shaft and the said shafts being provided with oppositely bowed portions rigidly connecting the reduced and tubular sections of each shaft with each other, means located at opposite sides of the engine for connecting the said shafts with the crossheads of the engine, combination levers located at opposite sides of the locomotive and connected



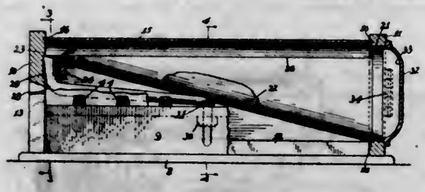
with the said shafts, and means for connecting the combination levers with the main rods of the locomotive and with the engine valves, said combination levers operating to supply lap and lead motion.

1,687,558. SHOE-TREE. FREDRICK HARROLD, Mansfield, Ohio. Filed June 30, 1927. Serial No. 202,644. 7 Claims. (Cl. 12—129.1.)



1. In a shoe straightener and shaper, a frame provided with resilient members, means secured to the frame to engage the tip of the sole of the shoe, clamping members secured to the resilient members of the frame and arranged to slide in overlapping relation to each other, means to hold the clamping members in position on and in close contact with the shank of the sole of the shoe during the stretching movement thereof.

1,687,559. CABINET. HENRY F. HERMAN, Chappaqua, N. Y., assignor to Straitline Radio Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 26, 1925. Serial No. 18,473. 12 Claims. (Cl. 274—2.)

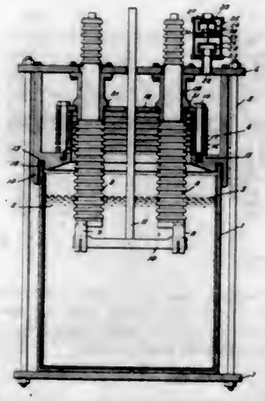


1. In a cabinet for radio receiving apparatus, a mounting base for the apparatus, and a removable top for the base comprising end members, rails to connect and maintain the end members in spaced relation, and a panel of concave form interposed between and connected at the marginal portions to the rails and ends to form a hood.

1,687,560. ELECTRIC SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 6, 1923. Serial No. 630,328. 4 Claims. (Cl. 200—150.)

1. A switch of the fluid break type comprising a tank, relatively movable switch contacts mounted in said tank beneath the level of said fluid, a cover for said tank form-

ing an expansion chamber, and means comprising a plurality of superposed spaced plates carried by said cover above the level of the fluid for permitting the free escape

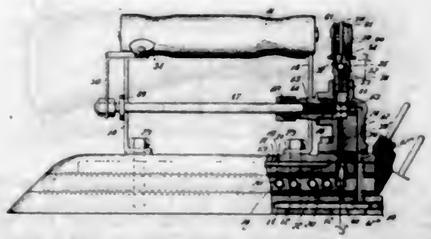


of the hot gases formed by the arc between said contacts and for cooling said gases below their ignition temperature before entering the expansion chamber.

1,687,561. METHOD OF CLARIFYING CANE MOLASSES FOR THE GROWING OF YEAST. CHARLES HOFFMAN, Tuckahoe, N. Y., and CHARLES N. FREY and FRANK MERRILL HILDEBRANDT, Warren, Ohio, assignors, by mesne assignments, to The Fleischmann Company, New York, N. Y. Filed May 8, 1923. Serial No. 637,586. 8 Claims. (Cl. 127—50.)

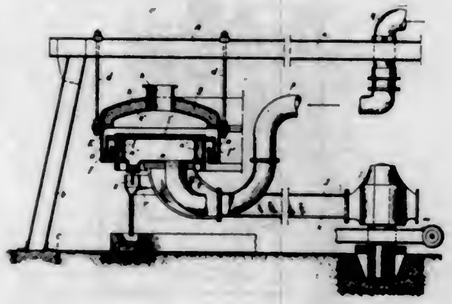
1. The process of clarifying cane molasses to render it suitable for yeast manufacture, which comprises in adding to a dilute solution of molasses a quantity of sodium silicate sufficient to render the resulting mixture alkaline with the limits represented by a pH value of from 7.7 to 12, then heating the mass and filtering while hot.

1,687,562. PRESSING IMPLEMENT. LOUIS HOFFMAN, St. Paul, Minn., assignor to Steam Pressing Iron Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 20, 1922, Serial No. 602,085. Renewed June 7, 1928. 15 Claims. (Cl. 68—26.)



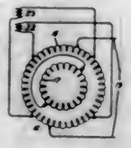
1. In combination with a body and perforated pressing face of a pressing implement of the moistening type, means providing a duct for vaporization of the water supplied to the implement, means constituting a superheating duct into which said vapor passes from the vaporizing duct before going to the perforated pressing face, means for heating the fluid in said ducts, a detachable valve casing formed with passages for connecting the vaporizing duct with the superheating duct, and the superheating duct with the perforated pressing face, and a valve for controlling the flow of steam through one of said passages.

1,687,563. REVOLVING-RING OVEN. LUDWIG HONIGMANN, Bad Tolz, and FRIEDRICH BARTLING, Munich, Germany. Filed June 2, 1926, Serial No. 113,289, and in Germany June 3, 1925. 5 Claims. (Cl. 263—7.)



2. In a rotary ring hearth oven, a supporting structure, a ring shaped muffle suspended therefrom and including a cover consisting of spaced metallic walls, a heat insulating medium between said walls, a rotating hearth supported for rotation below said muffle, and means for rotating said hearth.

1,687,564. AUTOMATIC CONTROL OF DYNAMO-ELECTRIC MACHINES. JOHN I. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 15, 1926. Serial No. 122,725. 5 Claims. (Cl. 172—279.)



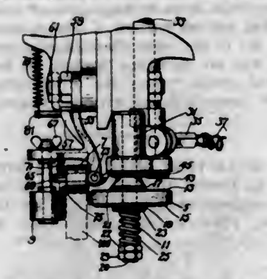
1. In combination with a single phase commutator motor, a source of supply therefor, an electric relay provided with a pair of energizing windings, one of said windings being electrically connected to said motor so that it is energized in proportion to the percentage of the synchronous operating speed of said motor, and the other winding being electrically connected to said motor so as to be energized in proportion to the slip plus the synchronous speed of said motor.

2. A single phase commutator motor of the repulsion type, adapted to have its primary winding energized along one axis and having its commutator short-circuited along a different axis, an electric relay provided with a pair of opposed solenoids, and connections for energizing said solenoids from the primary winding of said motor along axes which are substantially in quadrature relation to each other, one of said axes being that of the commutator short circuit.

1,687,565. MACHINE FOR APPLYING ADHESIVE STRIPS TO SOLES. CHESTER HUNT, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 18, 1922. Serial No. 544,952. 11 Claims. (Cl. 12—17.)

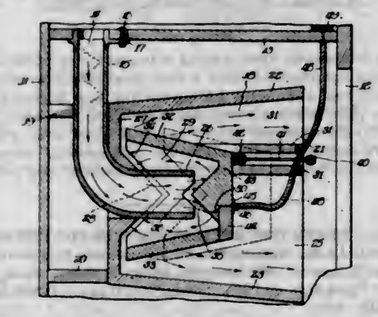
11. A machine for applying a strip of unvulcanized rubber over the corner at the junction of the edge and one face of a rubber sole having, in combination, a strip guide shaped to bend a strip passing through it in such manner that a portion of the strip will be applied to the edge of the sole and a second portion to the face of the sole, a roller arranged to press said second portion against the face of the sole, a driven, yieldingly mounted feed roller

arranged to engage the opposite face of the sole, an edge roller arranged to press the first-named portion of the



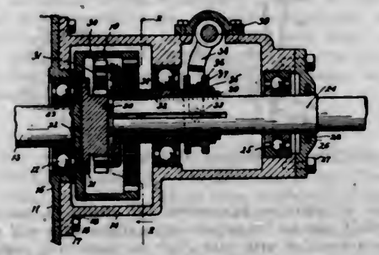
strip against the edge of the sole, a pivot about which the edge roller may swing, and a spring for urging the roller about the pivot.

1,687,566. SOUND-CONTROL CONSTRUCTION. LEIGH HUNT, Chicago, Ill., assignor to Oro-Tone Company, Chicago, Ill., a Corporation of Illinois. Filed July 2, 1926. Serial No. 120,006. 7 Claims. (Cl. 181—27.)



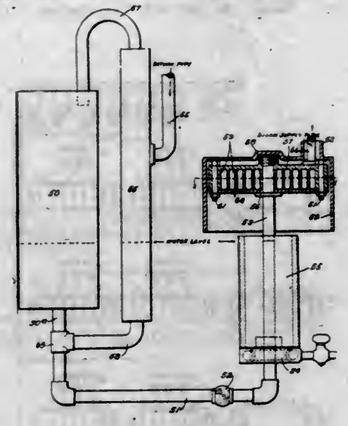
6. Sound control construction comprising an amplifying chamber having an open side, a throat passage entering the side opposite the open side, and a reflecting member positioned in the chamber opposite the throat, said reflecting member having a ridge extending across the face opposite the throat, said ridge serving to divide the sound, the throat member having notches in its edge whereby the ridge on the reflecting member may extend into the throat.

1,687,567. VARIABLE-SPEED GEARING. JAMES P. JOHNSON, Cleveland Heights, Ohio, assignor to The J. P. Johnson Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 25, 1927. Serial No. 170,785. 6 Claims. (Cl. 74—58.)



1. In gearing for the purpose specified, the combination of a housing, a pair of shafts, the axes of which are offset with respect to each other, an external and internal gear mounted upon one of said shafts, an internal and external gear slidably mounted upon the other of said shafts, and means for shifting said slidable gears into a position in which the internal slidable gear is in mesh with the external gear on the other shaft, or in which the external slidable gear is in mesh with the internal gear on the other shaft.

1,687,568. STEAM GENERATOR. RICHARD MARMADUKE JONES, Northampton, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 26, 1922, Serial No. 608,935, and in Great Britain Jan. 3, 1922. 2 Claims. (Cl. 122—460.)



1. A generator for superheated steam, having, in combination, a water reservoir open to atmospheric pressure, a source of heat, a steam generating portion in which only a limited quantity of water can be converted into steam at one time by heat supplied from said source, said conversion occurring at and slightly below the water level of the reservoir, a connection between the reservoir and the steam generating portion, a steam superheating portion containing a connected series of tortuous passages located above the steam generating portion, a connection between said portions, a cover common to all of said tortuous passages made of material of high heat conductivity and located on the underside of the superheating portion so as to be exposed to the source of heat, and an outlet for superheated steam at the end of the series of tortuous passages farthest removed from the connection to the steam generating portion.

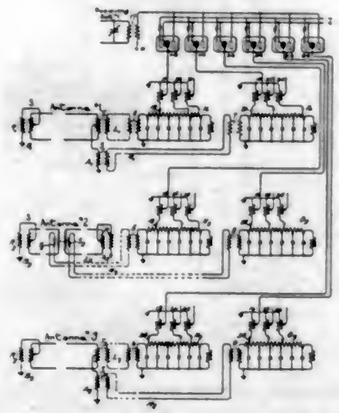
1,687,569. TWO-WAY-SOCKET UNIT. WILLIAM ILE, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a Corporation of Delaware. Filed Dec. 12, 1925. Serial No. 75,119. 11 Claims. (Cl. 173—336.)



1. A socket unit of the class described including a hollow body of insulating material open at the upper end and provided at the lower portion with sockets for the recep-

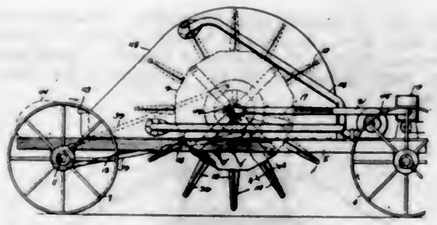
tion of electric light tubes, switch mechanism housed within the body for controlling the feed of current to the electric light tubes and provided with an operating shaft projecting beyond the top of the body, a fixed sleeve forming a bearing for the operating shaft and having exterior screw threads, and a clamping member having a threaded opening to receive the sleeve and engaging the threads thereof and of a size to cover the open top of the body.

1,687,570. RADIO RECEIVING SYSTEM. EDWARD W. KELLOGG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 21, 1922. Serial No. 602,453. 16 Claims. (Cl. 250—11.)



15. The combination in a radio receiving system of a plurality of directive receiving units, a receiving set, a pair of artificial lines associated with each receiving unit and means for impressing upon the receiving set currents derived from all of said artificial lines.

1,687,571. COTTON-PICKING MACHINE. ALLEN J. KIEFFER, Hot Springs, S. Dak. Filed Jan. 8, 1926. Serial No. 80,047. 4 Claims. (Cl. 56—13.)



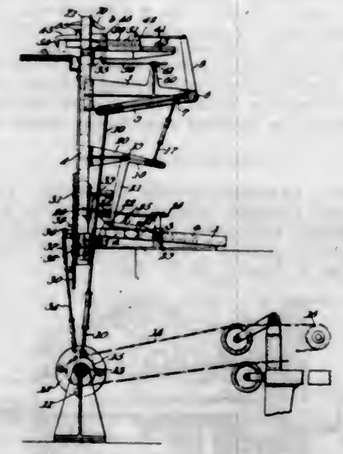
1. In a cotton picker, a carriage, a rotatable drum carried by the carriage, axially rotatable hollow picking fingers supported by and projecting radially from the drum, means for rotating the drum for causing the fingers to intrude into and withdraw from the plants as the carriage travels, means for causing suction through the fingers while they are at intruded position and for causing outward air discharge through them while they are at withdrawn position, and cotton boll engaging and detaching prongs carried by said fingers, and means to rotate the fingers upon rotation of the drums, said drum having a pair of chambers, means for producing suction in one of the chambers and compression of air in the other chamber, and means for causing suction and air discharge through the fingers embodying rotatable sleeve valves for alternately placing the chambers in communication with the fingers.

1,687,572. REAR-VIEW MIRROR FOR AUTOMOBILES. WILLIAM LA HODNY, Buffalo, N. Y., assignor to Standard Mirror Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Nov. 16, 1925. Serial No. 69,233. 2 Claims. (Cl. 45—97.)



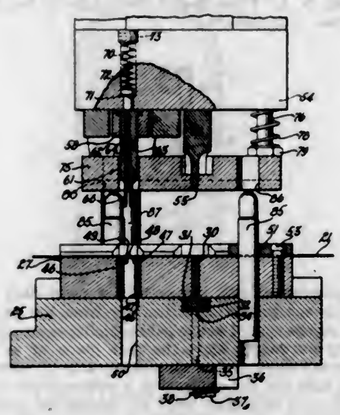
1. An automobile visor having a top and side walls provided with longitudinal slots, a rear view mirror arranged below said top, and means for supporting said mirror comprising a plate which carries said mirror and which has its ends arranged adjacent to the inner sides of said walls, and bolts connected with said plate and passing through said slots and bearing against the outer sides of said walls.

1,687,573. ELEVATOR MECHANISM FOR CONVEYERS. HARRY I. LAHR, Wadsworth, Ohio, assignor to The Ohio Match Company, Wadsworth, Ohio, a Corporation of Ohio. Filed Feb. 2, 1925. Serial No. 6,434. 13 Claims. (Cl. 198—20).



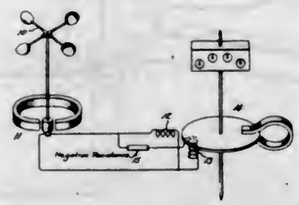
1. In an elevator mechanism for conveyers, an elevators shaft, means for introducing articles into said shaft, means associated with said shaft for imparting a step by step elevating movement to said articles, and means arranged in operative relation to said shaft for grasping said articles one by one as they are elevated and transferring them from said shaft to a position outside thereof and adjacent thereto and then releasing them.

1,687,574. ARTICLE-FORMING APPARATUS. AUGUST STANLEY LISS, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1926. Serial No. 151,643. 9 Claims. (Cl. 153—2.)



3. An article forming apparatus comprising a die, means for intermittently advancing material past the die, and a split punch designed to engage portions of the material to position the material and force it through the die.

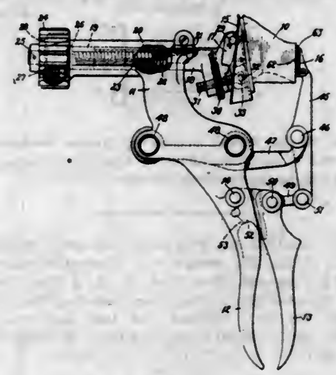
1,687,575. ELECTRIC MEASURING SYSTEM. KURT LUBOWSKY, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Dec. 2, 1926, Serial No. 152,271, and in Germany Jan. 15, 1926. 5 Claims. (Cl. 171—34.)



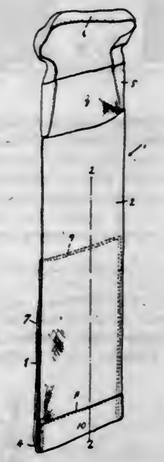
4. A measuring system comprising a source of variable voltage, a wattmeter having current and voltage coils, connections for supplying said coils from said source, and means included in said circuit connections for causing the wattmeter to give a measurement proportional to the third power of the variable voltage.

1,687,576. METHOD OF AND MEANS FOR TRIMMING UNATTACHED HEELS. LESTER S. MACDONALD, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 20, 1922. Serial No. 602,120. 16 Claims. (Cl. 12—42.)

1. That improvement in methods of shaping unattached heels which consists in securing such a heel temporarily in fixed relation to form-controlling means, shaping the periphery of the heel by trimming it along a predetermined course controlled by said means while turning and rocking the heel in tangential relation to a cutter rotating about a fixed axis, and shaping the breast of the heel by trimming it along a course constrained by said means to bear a predetermined standardized relation to said course of peripheral trimming.



1,687,577. COTTON-PICKER'S SACK. CHRISTIAN E. MANNER, Homestead, Fla. Filed May 18, 1927. Serial No. 192,297. 1 Claim. (Cl. 150—2.)

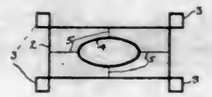


The combination with a cotton picker's sack; of a reinforcing flap of substantially the same width as the sack, the side edges of the flap being folded back upon the body portion of the flap and being stitched thereto, the upper edge of the flap being stitched to the intermediate portion of the bottom side of the sack, said flap extending downwardly beyond the closed lower end of the sack to completely cover the bottom side of the sack at the lower end portion thereof, the depending portion of the flap being folded back upon the front side of the sack and stitched at the free end portion thereof to the top side of the sack at a point adjacent the closed lower end thereof.

1,687,578. ORNAMENTAL INLAID WORK. OTTO S. MARCKWORTH, Columbus, Ohio. Filed July 30, 1926. Serial No. 126,082. 5 Claims. (Cl. 41—35.)

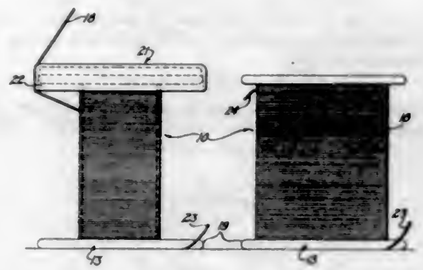
1. An article of the character described, consisting of a design-frame of wire-like formation, the thin bars thus formed constituting the tracery of the design, and a wood

veneer forming a body within which such design frame is embedded, the material of the veneer being removed at places over the tracery formed by such frame, and the



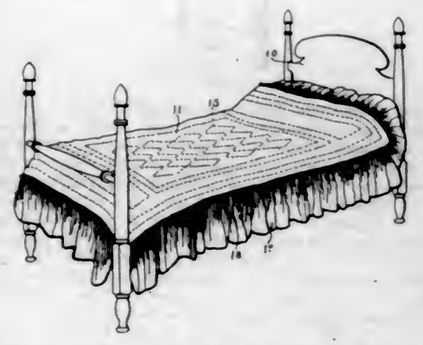
remainder of the veneer occupying spaces bordering the tracery, and a suitable adhesive applied between frame and veneer to maintain their union.

1,687,579. MATERIAL HOLDER. SAMUEL MCMULLAN, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Oct. 22, 1924, Serial No. 745,090. Divided and this application filed Jan. 28, 1927. Serial No. 164,185. 6 Claims. (Cl. 242—140.)



1. In a strand material holder, a body portion for receiving strand material, another portion of a character and size different from the body portion on which an auxiliary portion of the strand material is wound, and separating means for the strand supporting portion of the body having a slot to permit the strand material to pass therethrough from one portion to the other.

1,687,580. BED COMFORTABLE. RALPH H. MELCER, New London, Conn., assignor to The Palmer Brothers Company, New London, Conn. Filed July 2, 1926. Serial No. 120,199. 1 Claim. (Cl. 5—334.)



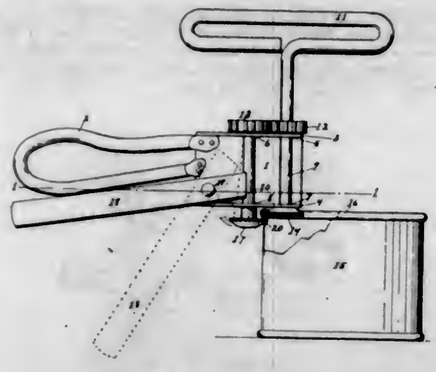
In a bed comfortable, a padded or quilted body portion, a gathered flounce attached to the edges thereof and designed to hang downwardly therefrom, and a gathered heading projecting upwardly from the flounce to a point at least as high as the upper face of the body portion, said flounce and heading extending entirely about the periphery of the body portion, said heading being of two-ply thickness of material and said flounce being of single thickness and said heading and flounce being formed integrally with each other.

1,687,581. SUSPENSION CLIP. JOSEPH H. MURPHY, Newark, N. J. Filed Nov. 4, 1927. Serial No. 230,081. 4 Claims. (Cl. 24—84.)



1. A suspension clip, comprising a main body having piercing means projecting outwardly from the face plane thereof, means spaced above said piercing means and also projecting outwardly from the face plane of said main body adapted to serve as a stop engageable by material inserted in said clip for suspension, a presser plate hingedly connected with said main body for disposition across said piercing means, said presser plate being cutaway to receive said piercing means, and a guard means on said presser plate outward'y off set and covering its cutaway portions.

1,687,582. CAN OPENER. ABRAHAM NOBLE, San Diego, Calif. Filed Aug. 2, 1923. Serial No. 655,271. 3 Claims. (Cl. 30—3.)

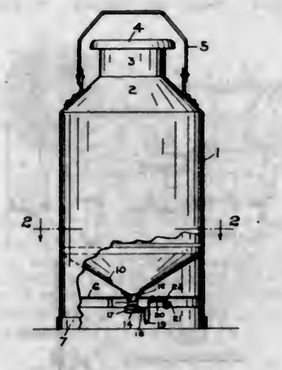


1. In can opener, a frame having manual holding means for one of the hands, manual torsional rotating means mounted on said frame for rotating cutting means with the other hand while the first named hand is manipulating said holding means, puncturing gear and self feeding toothed cutting means rotated and driven by said rotating means, and closing means for actuating and retaining said cutting means in closed relation pivotally mounted on said frame in close proximity to said said holding means.

1,687,583. SELF-DRAINING OIL CAN. SWAN E. NORD, Seattle, Wash. Filed Sept. 18, 1926. Serial No. 136,326. 4 Claims. (Cl. 220—1.)

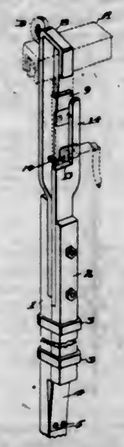
1. A self-draining oil can, comprising a container, a horizontal bottom member disposed above the base of the container, a central opening in said member, a second bottom member, disposed above the first-named member, in the form of a hollow, truncated and inverted cone, its smaller end

axially aligned with said opening, an auxiliary receptacle for oil extending through said opening and secured to said



end of the second-named member, and an oil-tight cap threadedly engaged with the free end of the receptacle.

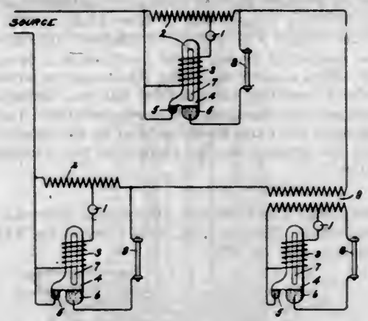
1,687,584. LINE-TAPPER-OPERATING DEVICE. EDWIN B. NORMINGTON, Sacramento, Calif. Filed Aug. 25, 1927. Serial No. 215,383. 2 Claims. (Cl. 81—3.)



1. In a device of the class described, the combination of a primary section, a plate fastened to one end of said primary section, said plate provided at its outer end with a hook adapted to hook over the top of a line tapper, said plate provided with a line-tapper-edge engaging lug, an auxiliary section slidably mounted upon said primary section, and said auxiliary section provided with a plate having a finger adapted to engage one side-edge of a line tapper opposite to the first mentioned edge engaged by said lug.

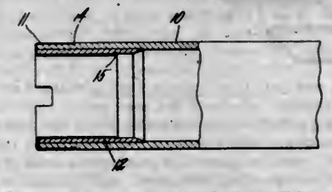
1,687,585. MEANS FOR SUPPRESSING HARMONICS. JAMES A. O'NEIL, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed May 16, 1924. Serial No. 713,867. 3 Claims. (Cl. 171—97.)

1. The combination of a series load circuit, a load device, a transformer comprising a primary circuit connected in series in said load circuit and a secondary circuit arranged to include said load device, and means for preventing the saturation of said transformer in case of the failure of the circuit of said load device whereby to avoid the production of harmonic currents including a resistance element having a negative temperature coefficient, and means operable to



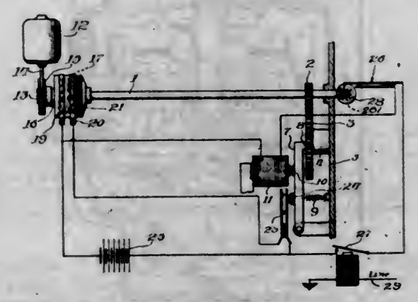
short circuit said primary circuit through said element in response to the failure of the circuit of said load device.

1,687,586. FIBER CORE. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Apr. 16, 1927. Serial No. 184,419. 2 Claims. (Cl. 242—68.)



1. A fiber core comprising a relatively thin-walled fiber tube, a short tubular filler having an internal diameter substantially equal to that of a standard paper core fitted within each end portion of said tube, and annular metal end pieces fitted on the ends of the composite structure thus formed.

1,687,587. AUTOMATIC CLUTCH. FRANK D. PEARNE and LAWRENCE E. GOTSCH, Chicago, Ill., assignors, by mesne assignments, to Wire Transmitting Corporation, Chicago, Ill., a Corporation of Delaware. Filed July 16, 1926. Serial No. 122,914. 2 Claims. (Cl. 178—35.)

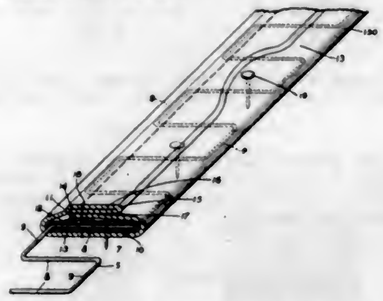


1. In combination, a rotary drive member, a rotatable shaft, a magnetic clutch for connecting the shaft to said member, a latch related with the shaft and yieldably moved into holding engagement therewith at the termination of predetermined rotational movements of the same, an electromagnet for retracting the latch, a switch for said clutch closed by the latch when the latch is in its retracted position, a normally closed switch opened by the driven shaft n rotating, and a line relay switch connected in series with the last mentioned switch for energizing the electromagnet.

1,687,588. METHOD OF DRYING CORRODIBLE MATERIALS. ALBERT PEARSON, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 28, 1926. Serial No. 138,345. 3 Claims. (Cl. 34—24.)

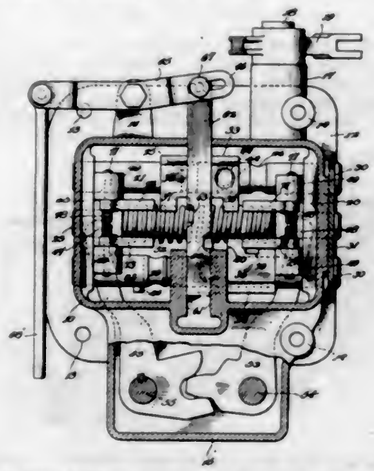
1. The method of drying moist particles of a corrodible material, which consists in adding a non-aqueous solvent to the particles, agitating the resulting mixture, withdrawing the liquid portion, repeating the above operations until the moisture upon the particles is replaced by the solvent, and removing the solvent on the surface of the particles by evaporation.

1,687,589. WEATHER STRIP. HOWARD D. RANDALL, Cincinnati, Ohio. Filed Oct. 23, 1926. Serial No. 143,612. 6 Claims. (Cl. 20—69.)



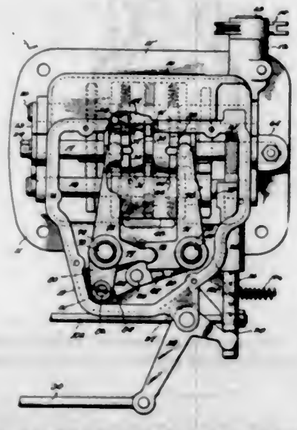
1. As a new article of manufacture a weather strip comprising a resilient relatively flat wire core, a paper covering for the core, a strip of felt extending about the paper covering and having a free end inturned and means extending through the felt and paper and overlapping ends of the felt and paper for securing the parts together and retaining them against relative displacement.

1,687,590. GEAR-SHIFTING MECHANISM. GLENN T. RANDOL, Muncie, Ind. Filed July 17, 1924. Serial No. 726,565. 21 Claims. (Cl. 74—58.)



1. A gear shifting mechanism including gear shifters, opposed elements spring pressed apart, coacting levers to engage the lower end portions of said elements for shifting said elements toward each other and returning said shifters to neutral position, means carried by the upper end portions of said elements for selectively coupling said shifters with said elements to travel therewith when moved away from each other, and selecting means to coact with said coupling means.

1,687,591. GEAR-SHIFTING MECHANISM. GLENN T. RANDOL, Marmaduke, Ark., and ROBERT S. PLEXICO, Muncie, Ind., said Plexico assignor to said Randol. Filed Oct. 30, 1924. Serial No. 746,822. 31 Claims. (Cl. 74—58.)



1. A gear shifting mechanism including gear shifting means, means including associated levers having a cycle of movement in opposite directions for operating said shifting means, actuating means, and toggle mechanism operable by said actuating means when moved in one direction for moving the levers through said cycle.

1,687,592. SHOULDER STRAP. ANNA ROTHSTEIN, Chicago, Ill. Filed Apr. 1, 1927. Serial No. 180,210. 1 Claim. (Cl. 241—12.)

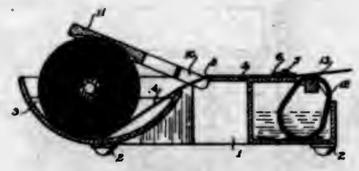


A detachable shoulder strap comprising a single band, one end of said band being folded to provide a double portion, and an elastic portion disposed within the double portion, said double portion being shirred to provide a covering for the elastic portion and to permit an elongation of the latter, one end of the folded portion being disposed between the elastic portion and the shoulder strap and secured to the shoulder strap, the other end of said folded portion comprising an attaching portion extending beyond the elastic portion and provided with a buttonhole.

1,687,593. METHOD OF PREPARING COLOR PLATES. FRED SASS, Detroit, Mich., assignor, by direct and mesne assignments, to Bo-Zar Engraving Studios, Inc., a Corporation of Michigan. Filed July 5, 1927. Serial No. 203,687. 10 Claims. Cl. 41—43.)

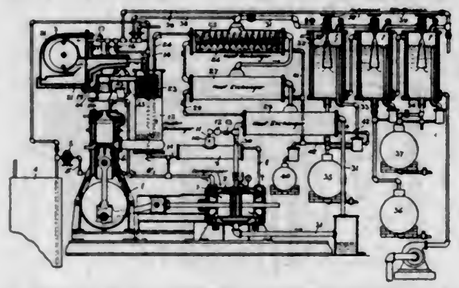
1. The method of preparing printing plates, which comprises tracing the outlines and transferring them to a separate surface, filling with a shading material, etching the surface after treating with the filling or shading material, then transferring each drawing for each color from such etched surface to a final printing surface and etching the same upon such final surface in relief.

1,687,594. TAPE-MOISTENING DEVICE. JOSEPH C. SCHNEBLE, Oakwood, Ohio. Filed Mar. 23, 1926. Serial No. 96,846. 2 Claims. (Cl. 91—14.5.)



2. In a device of the type described, the combination with an elongated channel member having a tape-roll receiving compartment in one end thereof, a knife at the other end of said channel member and under which the tape is adapted to be drawn, and a gravity plate pivotally secured to the top portion of the channel member between the knife and the tape-roll to rest upon the latter to tension it.

1,687,595. PROCESS FOR THE CONSTRUCTIVE CONVERSION OF HEAVY TO LIGHT HYDROCARBONS. WILLIAM E. SHORE, New York, N. Y. Filed Dec. 26, 1923. Serial No. 682,602. 12 Claims. (Cl. 196—62.)



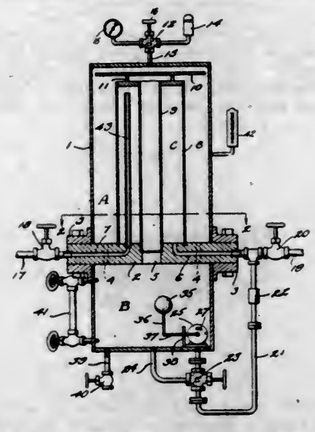
1. A process for converting heavy hydrocarbons to light hydrocarbons, comprising directing the oil through the jacket of a compressor, then introducing same in the presence of hydrogen bearing gases to a mechanically operating atomizer, then conducting the produced vapour to the compressor cylinder and raising its temperature under compression, then passing the highly heated vapour to expansion condensers.

1,687,596. MANUFACTURE OF AROMATIC AMINO SULPHOCYANO DERIVATIVES. OSKAR SPENGLER, Dessau in Anhalt, and WERNER MÜLLER, Leipzig, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Sept. 2, 1925, Serial No. 54,131, and in Germany Sept. 24, 1924. Divided and this application filed Apr. 28, 1926. Serial No. 105,260. 1 Claim. (Cl. 260—128.)

The herein described manufacture of sulphocyano derivatives by causing a solution containing a product of the reaction between a halide of sulphuric acid and a sulphocyanide to react with aromatic amino compounds.

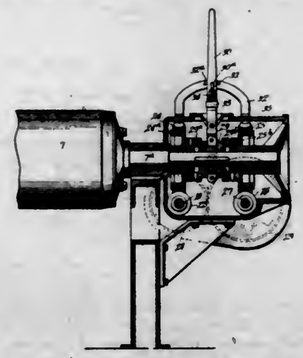
1,678,597. AIR AND FOUL-GAS EJECTOR FOR GAS SYSTEMS. DANIEL C. SPRINGER, Donora, Pa. Filed Apr. 26, 1926. Serial No. 104,860. 1 Claim. (Cl. 62—115.)

An air and gas ejector for a gas system of a refrigerating apparatus using ammonia or carbon dioxide comprising a casing, a partition therein dividing the same into upper and lower chambers, a cylinder supported on the partition and arranged in the upper chamber, means for introducing a cooling medium into the cylinder, means for connecting the interior of the cylinder with the compressor of the refrigerating apparatus, a poppet valve connected with the upper chamber, means for introducing a mixture of non-condensible gas and vaporized refrigerant into the



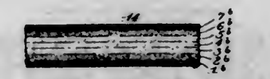
lower chamber, means permitting the mixture to pass into the upper chamber; a float controlled rotary valve in the lower chamber for controlling the discharge of the liquids of condensation and means for connecting the discharge of the valve with the interior of the cylinder.

1,687,598. ROTARY BIAS CUTTER. CHARLES W. STEELE, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 3, 1927. Serial No. 230,789. 2 Claims. (Cl. 164—34.)



1. In a machine of the class described, a platen roll, an endless chain having spaced apart cutters arranged to travel longitudinally of the platen roll, means for driving said chain at a uniform rate of speed, and means for selectively driving said roll at different rates of speed.

1,687,599. FIBER BOARD AND METHOD OF MAKING SAME. CHARLES A. UPSON, Lockport, N. Y., assignor of one-half to W. Harrison Upson, Lockport, N. Y. Filed Oct. 4, 1922. Serial No. 592,424. 3 Claims. (Cl. 92—42.)



1. A method of making a fire resisting fiber sheet which embodies simultaneously forming a saturated web of vegetable fiber pulp possessing a relatively high degree of tensile

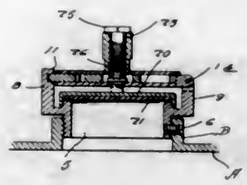
strength and a similar saturated web of mineral fiber pulp of low tensile strength, and then immediately bringing the surface of one web against that of the other to felt and interlace the fibers of both.

1,687,600. STAIR NOSING. HAROLD A. WELCOME, Lowell, Mass., assignor to American Mason Safety Tread Company, Lowell, Mass., a Corporation. Continuation of application Serial No. 697,357, filed Mar. 5, 1924. This application filed Nov. 20, 1924. Serial No. 751,013. 2 Claims. (Cl. 20—79.)



2. In a stair tread, the combination of a rigid base plate from which a plurality of integral ribs extend upwardly, there being proximate the front edge, a plurality of parallel diagonally disposed ribs, the ends of which are exposed; with a non-slipping artificial stone composition which extends between and flush with the top faces of the ribs and teeth.

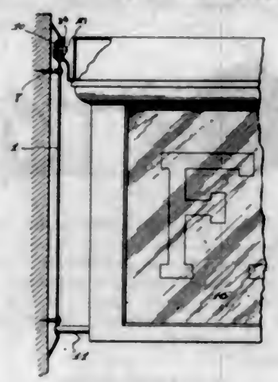
1,687,601. LOCKING CAP FOR FUEL TANKS. JAMES E. WHITLEY, Hemet, Calif. Filed June 13, 1927. Serial No. 198,586. 2 Claims. (Cl. 220—57.)



1. In a latch for tank closures wherein the closure is formed with an internal shoulder, a cap for said closure for disposition against said shoulder, an upstanding member on said cap, a hollow bar hingedly connected at one end to the closure, a bolt slidable within the bar, the outer end of the bolt being engageable within a socket formed in the closure, means within the hollow bar for effecting a tension against the upstanding member of the cap, said bolt being formed with an intermediate opening and having an offset notch, a rotatable member projecting within the hollow bar and having its inner end disposed within the opening of the bolt, said member being provided with a lug engageable with the notch whereby the rotary movement thereof will cause the inward movement of the bolt within the hollow bar.

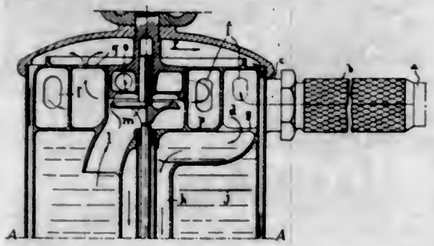
1,687,602. SIGN AND MEANS FOR MOUNTING THE SAME. CLAUDE S. WILLEY, Detroit, Mich. Filed Apr. 1, 1927. Serial No. 180,146. 4 Claims. (Cl. 40—125.)

1. In a sign, the combination of a sign structure having a moulding extending around all of its sides, of a sign support provided with means for securing the moulding thereto, means projecting from the support and equal to the width of the moulding and abutting against the sign



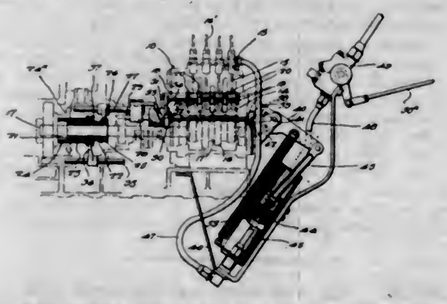
at a point other than at the moulding, whereby a sign may be secured to the support at any one of its sides.

1,687,603. SEPARATOR. PIERRE AMET, Paris, France. Filed July 16, 1926, Serial No. 122,996, and in France July 30, 1925. 8 Claims. (Cl. 210—51.)



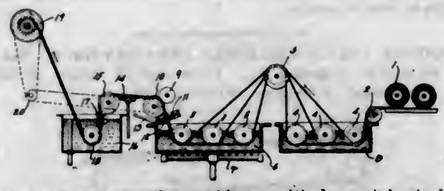
1. A gasoline separator, comprising a casing having an inlet and an outlet for the gasoline; and concentric outer and inner annular settling chambers within the casing in communication with each other, and also in communication, respectively, with said inlet and outlet, each chamber having a plurality of internal radial baffles formed with apertures.

1,687,604. PUMP CONTROL. ANDRÉ C. ATTENDU, Montreal, Quebec, Canada. Filed Jan. 17, 1925. Serial No. 3,135. 8 Claims. (Cl. 123—139.)



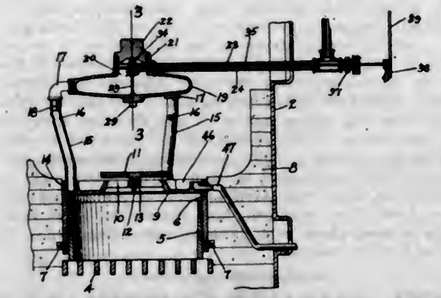
1. Fuel feeding apparatus comprising a pump including a plunger, a movable shaft, plunger stroke regulating means controlled by movement of said shaft, a pressure responsive device, a drive connection between the pressure responsive device and said shaft and means other than the plunger for applying operating pressure to said pressure responsive device.

1,687,605. APPARATUS FOR MAKING MULTIPLY STRIP STOCK. HARRY W. BUNDY, Detroit, Mich. Filed Nov. 11, 1927. Serial No. 232,576. 6 Claims. (Cl. 113—59.)



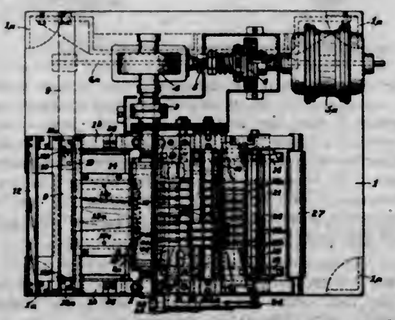
1. An apparatus for making multi-ply metal stock, comprising in combination means for drawing a plurality of plies of metal stock from supplies thereof, a bath of molten sealing metal, means for guiding the plies through the bath while the plies are held separated, and means for bringing the plies together to be secured by the said sealing metal to form multi-ply metal stock.

1,687,606. OIL BURNER. CLYDE M. CLEFTON, Austin, Minn., assignor to Florence K. Clefton, Austin, Minn. Filed Jan. 21, 1924. Serial No. 687,544. 5 Claims. (Cl. 158—63.)



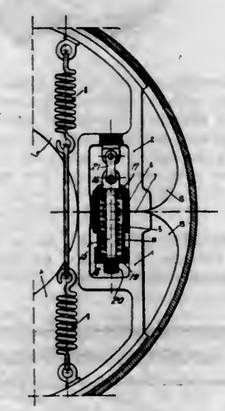
1. In a liquid fuel burner, a retort having discharge ports of different size in its bottom wall and corresponding valves for said ports, a rotating rod and a crank disk thereon whereto said valves are connected, the rotation of said rod opening and closing said valves alternately to increase or decrease the flow of fuel to the burner, a base having a priming pan and standards upon said base supporting said retort.

1,687,607. SLITTING MACHINE. ARTHUR E. COLLINS, Cuyahoga Falls, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 14, 1926. Serial No. 154,748. 9 Claims. (Cl. 164—61.)



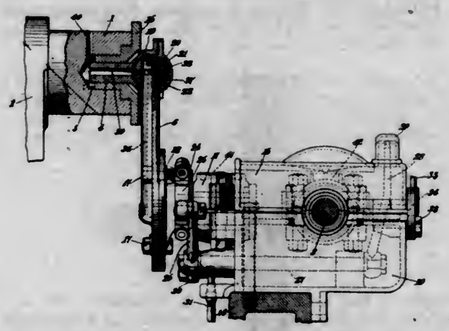
6. In a slitting machine, a main frame, a platen roll journaled therein, a cutter carrier insertible in and removable from said frame, cutter bars fulcrumed on said carrier and having cutters adjacent one end to cooperate with said platen roll and springs on the other end for detachably engaging a fixed bar on said frame, and means for raising and lowering the fulcrum of said cutter bars.

1,687,608. EXPANDING-SHOE BRAKE. GUIDO FORNACA, Turin, Italy. Filed Sept. 20, 1926, Serial No. 136,593, and in Italy Sept. 28, 1925. 3 Claims. (Cl. 188—78.)



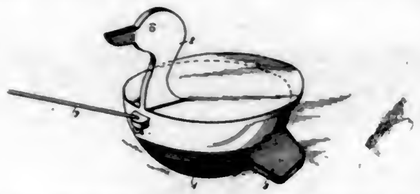
1. A vehicle brake having a brake drum, a pair of brake shoes for co-action therewith, and a fixed support for said shoes; in combination with co-acting cam surfaces on the mutual contacting faces of the shoes adjacent the support and forming a shifting pivot for the shoes as they move bodily from the support and means to draw the shoes together when released.

1,687,609. DRIVING MECHANISM FOR ENGINE ACCESSORIES. HEWITT A. GEHRES, Mount Vernon, Ohio. Filed Aug. 2, 1922. Serial No. 579,107. 3 Claims. (Cl. 64—89.)



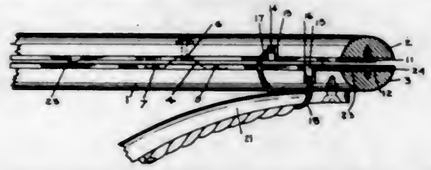
1. A driving mechanism for engine accessories, comprising a crank pin engaging member, a ball and socket joint associated with said member, a drag crank slidably connected to one element of said ball joint, and a cross shaft substantially concentric with the circle of rotation of the crank pin, said cross shaft being fixedly connected to said drag crank.

1,687,610. TOY. THOMAS E. GRIFFIN, West Haven, Conn. Filed Aug. 16, 1926. Serial No. 129,552. 10 Claims. (Cl. 46—40.)



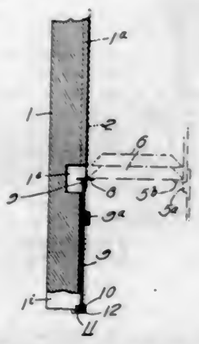
1. A toy comprising a body having a floor engaging surface rounded to permit substantially universal rocking movement and a plurality of laterally extending members secured to the lower portion of said body and adapted for engagement with the floor when said body is rocked laterally and means for advancing the toy over the floor.

1,687,611. ELECTRIC SWITCH. LOUIS HAMER, Montreal, Quebec, Canada. Filed Jan. 10, 1924. Serial No. 685,378. 2 Claims. (Cl. 200—59.)



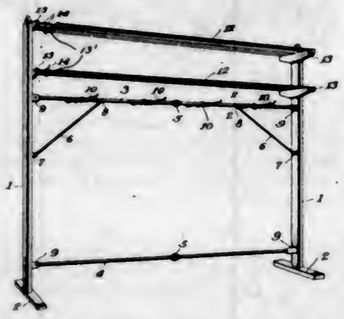
1. An electric switch, comprising a steering wheel rim forming two annular electric contacts, arcual flat springs separating said annular electric contacts and centrally secured apart from said contacts and spreading on either side of their fasteners and diametrically arranged in pairs and supplemental means straddling and holding said annular contacts apart following the initial pressure on said separating springs adapted to contribute to the spacing of the annular contacts under normal steering pressure, and to form a support for one annular contact prior to the act of sounding the horn.

1,687,612. CHECK-CONTROLLED ARTICLE-DELIVERY APPARATUS. EDWARD B. HERMAN, Watertown, Mass. Filed Mar. 30, 1927. Serial No. 179,517. 3 Claims. (Cl. 194—22.)



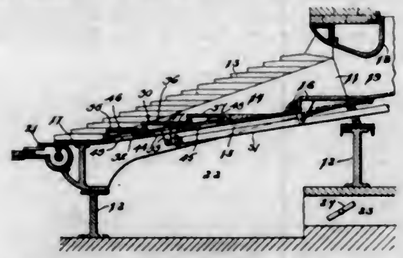
1. In a coin controlled article delivery apparatus a storage chamber of substantially triangular shape in cross section to receive wafers of corresponding shape, said chamber having a wafer supporting abutment in one corner, and means for releasably supporting the opposite edge of the wafer comprising a pair of spaced rotary members having wings adapted to successively project into the path of the wafers, yieldably supported U-shaped member having its arms adapted to engage the wings of said members, and means for causing a coin to actuate said U-shaped member.

1,687,613. COLLAPSIBLE HAT AND COAT RACK. JOHN HERNACKI, Chicago, Ill. Filed Sept. 7, 1926. Serial No 133,964 3 Claims. (Cl. 211—178.)



1. A collapsible garment rack comprising a pair of vertically disposed standards, each of said standards having a pair of braces hinged at one end thereto in spaced relation, one of said braces being attached adjacent the top of its standard and the other adjacent the bottom thereof, means for rigidly joining end to end the free ends of the top and bottom braces of one standard with the top and bottom braces respectively of the other of said standards to form a rigid rectangular frame-work, garment supporting means on said upper braces, and a flexible hat supporting shelf secured to the upper ends of said standards and held taut thereby, said hat shelf being located above said garment supporting means in spaced relation thereto.

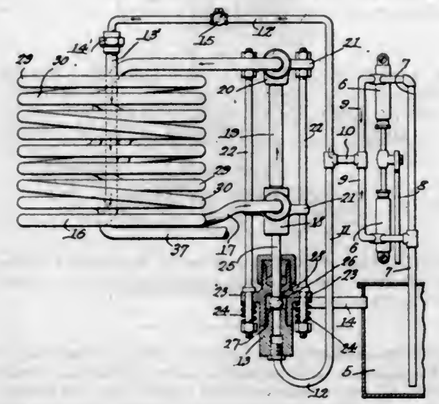
1,687,614. AUXILIARY RAM FOR STOKERS. DUNCAN C. HESS, Chester, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1922. Serial No. 572,903. 3 Claims. (Cl. 110—44.)



1. In combination in an underfed stoker, a fuel feeding retort, an auxiliary ram in the retort, said auxiliary ram comprising a plurality of hollow, step-like pusher members, each of said pusher members having a port disposed to deliver air into the fuel bed, said retort and said pusher members each being provided with a series of openings, the openings of said retort registering with the openings of said pusher member, the openings of at least one series being of graduated size.

1,687,615. STEAM GENERATOR. ADRA M. HUBBARD, Dallas, Tex. Filed Oct. 30, 1924. Serial No. 746,860. 3 Claims. (Cl. 122—41.)

1. A steam generator including generator coils and a feed water coil, a source of water supply, a pipe establishing communication between the source of water supply and feed water coil, a thermo-responsive tube establishing communication between the feed water coil and the generator coils whereby water may flow from the feed water coil



to the generator coils, and a valve operated by the thermo-responsive tube for controlling the passage of water from the source of water supply to the feed water coil.

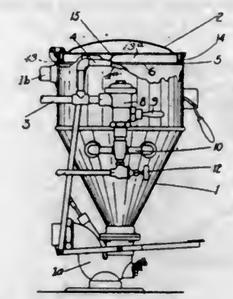
1,687,616. DISPLAY STAND. JOSEPH G. HUYE, New Orleans, La. Filed Aug. 24, 1925. Serial No. 52,060. 3 Claims. (Cl. 211—157.)



1. A collapsible set-up display device comprising a tubular member having a plurality of overlapping plates having their opposed side faces in sliding engagement with each other at all times, and elastic bands fitting about parts of the end portions of said plates to pull them edgewise toward each other into normal full overlapping relation to expand the tubular member to full set-up condition.

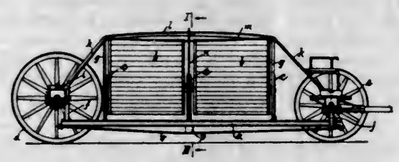
1,687,617. WATER SEAL FOR CLEANING DEVICES. RAYMOND L. JEWELL, Millcreek Township, Erie County, Pa., assignor to American Sterilizer Company, Erie, Pa., a Corporation of Pennsylvania. Filed Oct. 15, 1924. Serial No. 743,849. 2 Claims. (Cl. 141—1.)

1. In a cleaning device, the combination of an open-topped cleaning chamber; a valve controlled conduit for introducing cleaning fluid into said chamber; a trough arranged in said chamber about its upper edge; a cover for said chamber having a flange adapted to enter said



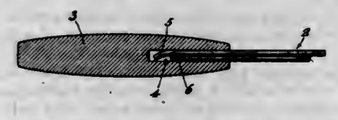
trough; and means for conducting fluid from said valve controlled conduit to said trough.

1,687,618. AGRICULTURAL CARRIAGE. GEORG JOHANN WILHELM LAUENSTEIN, Barnstedt, near Luneburg, Germany. Filed Aug. 8, 1927, Serial No. 211,492, and in Germany May 28, 1926. 3 Claims. (Cl. 298—8.)



1. A frame for dumping cars of the type having side dumping buckets arranged in tandem comprising a truss construction including lower longitudinal members, cradles mounted on said lower longitudinal members for carrying said buckets, upwardly diverging supports carried by said lower longitudinal members arranged beyond said buckets in an endwise direction at each end of said frame and extending upwardly to a horizontal plane above said buckets, and an upwardly arched longitudinal member connecting the upper ends of said supports on each side of said buckets.

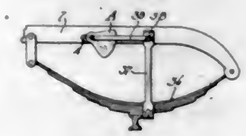
1,687,619. HANDLE CONSTRUCTION. JOHN G. LE PERE, Decatur, Ill., assignor to U. S. Manufacturing Corporation, Decatur, Ill., a Corporation of Illinois. Filed Jan. 6, 1925. Serial No. 823. 2 Claims. (Cl. 306—1.)



1. In combination, a handle member and a gripping member, the handle member being composed of two straight parallel parts of wire arranged in contact throughout the entire length of one of the parts to provide a solid shank within the gripping member, one part being longer than the other and extended at an angle across the end of the shorter part to prevent an inclined entering surface forming a wedge, said gripping member being formed with a socket less in diameter than the combined diameters of the two wire parts, said two parts being forced into and wedged within said socket, the extended end of the longer part ter-

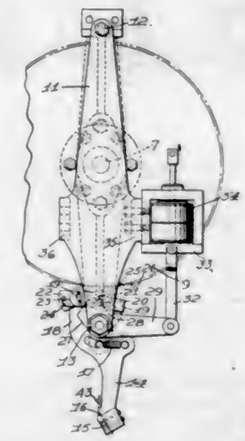
minating short of the opposite side of the shorter part and arranged out of contact with the wall engaged by the said shorter part so as not to interfere with the insertion of the handle member within the gripping member.

1,687,620. SHOCK ABSORBER. HENRY H. LOGAN, Chicago, Ill. Filed Sept. 10, 1926. Serial No. 134,742. 11 Claims. (Cl. 188—89.)



1. In a shock absorber, a casing, a pivot shaft, a vane carried by said pivot shaft, and having a central opening, a valve carried by the vane for controlling the central opening, said valve being movable by fluid pressure when the vane is moving in one direction, and an auxiliary valve carried by the vane and also controlling said central opening and adapted to be operated by an abnormal fluid pressure when the vane is moving in the opposite direction.

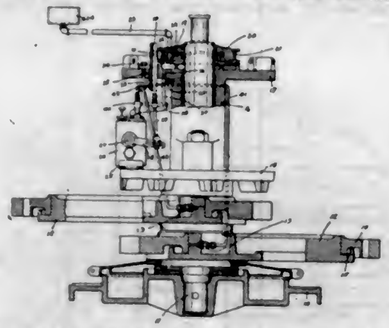
1,687,621. AUTOMATIC BRAKE OPERATOR FOR INCLINE HOISTS. HENRY H. LOGAN, Chicago, Ill. Filed Sept. 10, 1926. Serial No. 134,743. 8 Claims. (Cl. 192—116.5.)



3. The combination with a hoist having a cable drum, a brake mechanism for stopping the rotation of said drum, a lever for actuating said brake mechanism when released, a hoist control having a shaft, of a toothed disc removably secured to said shaft, a latch arm for holding said lever in set position, and means cooperating with said toothed disc for automatically releasing said brake lever.

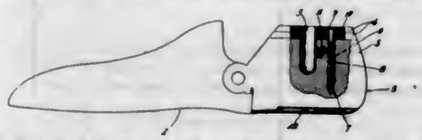
1,687,622. OILING MECHANISM FOR BAND-WHEEL POWER. ALBERT H. LOUCKS, Marion, Ind., assignor to Marion Machine, Foundry & Supply Co., Marion, Ind., a Corporation. Filed Jan. 18, 1927. Serial No. 161,783. 4 Claims. (Cl. 308—122.)

1. In a lubricating system for a power including an eccentric ring, an eccentric for reciprocating the same and a power hub for rotating the eccentric, the combination of a lubricator carried by one of the aforesaid rotating parts, and means continuously associated with said lubricator for



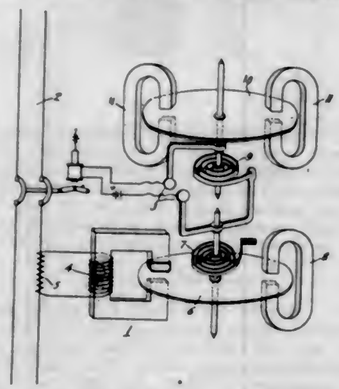
automatically actuating the same in the rotation thereof for supplying under pressure a measured quantity of lubricant to the rotating parts.

1,687,623. LAST. CHARLES E. LURCOTT, Philadelphia, Pa., assignor to Philadelphia Last & Pattern Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 27, 1926. Serial No. 111,930. 4 Claims. (Cl. 12—139.)



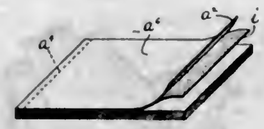
1. In combination, a shoe last having a heel part or portion provided with a comb or narrow portion, a jack pin thimble extending into said comb or narrow portion from the top thereof and means for reinforcing and drawing the material of the comb or narrow portion of the last together, said means being located in the rear of the jack pin thimble and extending into the material of the heel part or portion of the last for a considerable distance, said means including an elongated element screw threaded on a steep pitch and having an exposed head so that blows in operation result in a turning movement of the element in the material of the last so as to bind the grain of the material thereto.

1,687,624. RELAY. PAUL MACGAHAN, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 10, 1925. Serial No. 36,109. 3 Claims. (Cl. 200—97.)



1. In combination with an electric circuit, a relay comprising a rotatable armature having a contact secured thereto, inductive means for effecting the rotation thereof responsive to load conditions in said circuit, a second rotatable armature having a contact secured thereto in the path of movement of said first contact, a resilient driving connection between said armatures, and means whereby said contacts are maintained in spaced relation during normal variations in load on said circuit and are moved into contacting relation responsive to an abnormal increase in load.

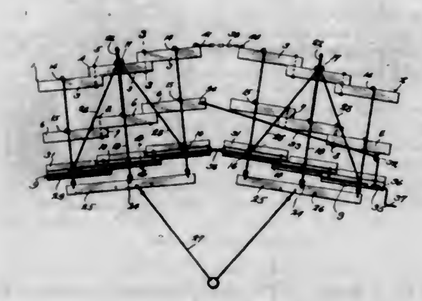
1,687,625. TOILET PREPARATION. KATHERINE M. MACKENZIE, New York, N. Y., assignor to Jacob S. Berliner, New York, N. Y. Filed Mar. 12, 1926. Serial No. 94,236. 5 Claims. (Cl. 167—9.)



1. The method of manufacturing a homogeneous article of paper and a cold cream which consists in evenly distributing the cold cream from a substantially solidified brick of predetermined characteristics maintained at a predetermined temperature over one surface of a sheet of fibrous material simultaneously with the application of pressure, and in a film of such thinness it may be held practically absorbed therein so that no substantial cream appears as such free on the surface of the paper, seasoning the sheet to effect substantially perfect assimilation of the cream by the sheet, and pressing it.

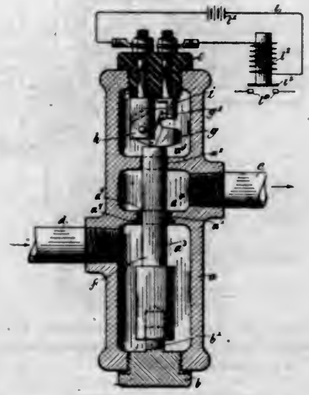
2. The method of manufacturing a homogeneous article of fibrous material and a plastic medium which consists in evenly distributing the medium from a substantially solidified brick of predetermined characteristics maintained at a predetermined temperature over one surface of a sheet of fibrous material simultaneously with the application of pressure, forming a stack of the sheets, enveloping the stack in an impervious wrapping, seasoning the stack to effect substantially perfect assimilation of the cream by the sheet, and pressing it.

1,687,626. ROAD GRADER. BENJAMIN H. MANSKER, Pinckneyville, Ill. Filed Apr. 23, 1927. Serial No. 186,079. 2 Claims. (Cl. 37—151.)



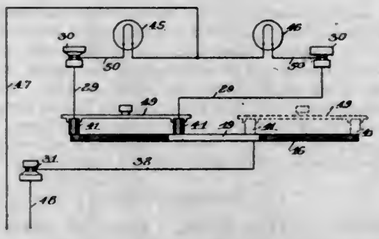
1. A grader of the class described, comprising oppositely disposed gangs, a draw member connected to one gang and extended transversely of the draft line to the other gang, means on said other gang for winding up the draw member thereby to pull the gangs toward each other and to dispose the gangs at different angles with respect to the draft line, flexible connections between the front and rear ends of the gangs and located at the inner ends of the gangs, and means for varying the length of one of the connections.

1,687,627. DEVICE FOR INDICATING VARIATION IN FLOW OF LIQUIDS. WILLIAM L. MARDEN, New York, N. Y., assignor to Neptune Meter Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 24, 1926. Serial No. 104,435. 6 Claims. (Cl. 200—82.)



1. A device for indicating variation in flow of moving liquids comprising a shell with an inlet chamber and an outlet chamber, a constant measured aperture connecting the two through which the liquid flows continuously, a connection from the source of liquid supply to the inlet chamber, a discharge connection from the outlet chamber, and a plunger movable in the shell under the influence of a differential of hydrostatic pressure between the two chambers.

1,687,628. RHEOSTAT. ALLAN F. MARTIN, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed May 10, 1924. Serial No. 712,245. 7 Claims. (Cl. 201—48.)

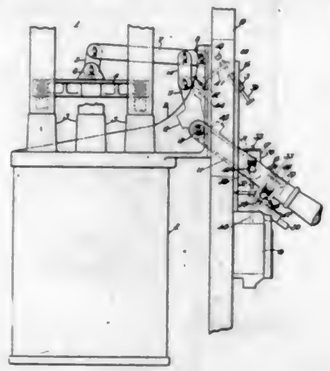


3. A rheostat comprising a resistance element wound progressively upon itself substantially in a plane, a conducting member adjacent the center of said windings and electrically connected with an end of said element, a pair of contacts movable over said plane in electrical contact, successively, with the windings of said element and with said member, and means for connecting said member and said contacts in an external circuit.

1,687,629. CIRCUIT INTERRUPTER. WALTER E. MCCOY, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 14, 1920. Serial No. 373,907. 7 Claims. (Cl. 200—109.)

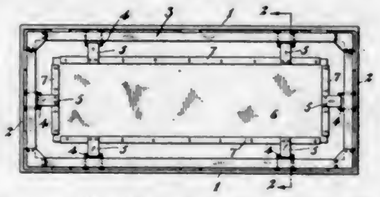
1. The combination with two members relatively movable in parallel planes, of a latching device comprising a cam member and a latching element carried by one of said members the latching element being adapted to be moved into the path of travel of the other of said members, and an

actuating member for the latching device adapted to operate the cam member to move the latching element into



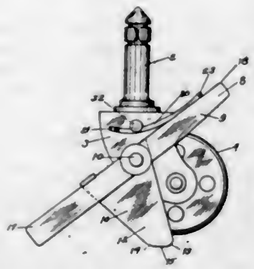
engagement with the second movable member, which second movable member may be rendered inoperative upon withdrawal of the actuating member.

1,687,630. TRANSPORTING CRATE FOR LUMINOUS TUBES OR OTHER FRAGILE ARTICLES. RANDOLPH J. MCRAE, New York, N. Y., assignor to Charles V. Bob, New York, N. Y. Filed July 11, 1927. Serial No. 204,793. 2 Claims. (Cl. 17—252.)



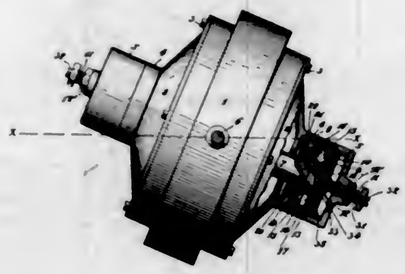
1. An improved crate for transporting luminous signs or similar articles composed of glass tubing fashioned into words or symbols, comprising an outer casing, a frame mounted therein and of substantially less width than the casing, a flat panel within the frame to which the luminous sign is secured, and a plurality of elastic straps connecting the panel to the frame so that the former will be elastically supported to thereby protect the sign carried by the panel from shocks applied to the outer casing.

1,687,631. CASTER LOCK. ALFRED R. OBERWEGNER, Toledo, Ohio. Filed May 28, 1927. Serial No. 194,882. 2 Claims. (Cl. 16—35.)



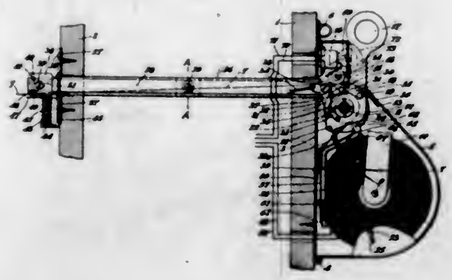
2. In a caster lock, a frame pivotally connected to the yoke of the caster, the pivotal axis of the frame being located substantially horizontally and in the plane of the vertical axis of the caster, the frame having two projecting parts for engaging the surface on which the caster is located, a spring for normally holding the said parts away from the said surface, and means for locating the points of contact of the said parts of the frame on opposite sides of the vertical axis of the caster and at a point below the horizontal level of the lower point of the wheel of the caster.

1,687,632. LUBRICATING SYSTEM FOR GYROSCOPES AND OTHER APPARATUS. CLIFFORD M. PAXTON, Brooklyn, N. Y., assignor to Paxton Gyroscope Corporation, a Corporation of New York. Filed Nov. 12, 1920, Serial No. 423,641. Renewed Nov. 5, 1925. 10 Claims. (Cl. 308—187.)



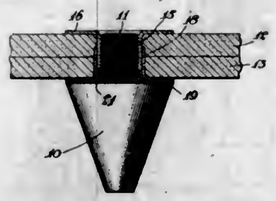
1. A gyro unit comprising gyro rotor, shaft and bearings, in combination with an enclosing support for the bearings affording, with said bearings, an interior circular lubricating cavity having an exterior opening of lesser diameter through which the shaft extends, and a pump rotor on said shaft, rotating in close proximity to peripheral as well as radial walls of said cavity to pump oil radially away from the shaft opening and laterally into the bearing when said shaft is running.

1,687,633. CALL REGISTER. ARTHUR PENTECOST, Upper Montclair, N. J. Filed Dec. 7, 1925. Serial No. 73,672. 4 Claims. (Cl. 234—1.)



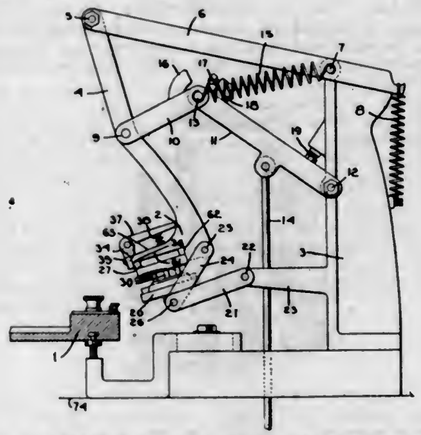
1. In a device of the class described, a member attached to the side of a wall and having a supply of record tape therein, said member having an opening to permit access to said tape for inscribing messages thereon, means for conveying the record tape from said member through the wall, recording means in operative relation to said record tape, a ratchet mechanism for feeding the tape through the conveying means in the wall, a lever for operating said ratchet mechanism, and means controlled by the lever for operating said recording means to make records on the tape spaced in correspondence with the amounts of manipulations of said lever.

1,687,634. CLEAT FOR SPORT SHOES. GEORGE L. PIERCE, Brooklyn, N. Y., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1926. Serial No. 147,898. 6 Claims. (Cl. 36—59.)



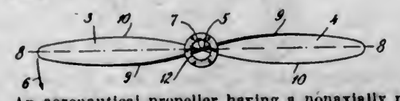
1. In a cleat for sport shoes, a sole member, an aperture formed in the sole member, a pair of bushings secured in the aperture, and a cleat member having a threaded stem engaging one of the bushings, the other bushing being formed to prevent accidental unscrewing of the cleat member.

1,687,635. MARKING MACHINE. FRED A. PUTNAM, Keene, N. H., assignor to Markem Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed July 3, 1924. Serial No. 723,974. 11 Claims. (Cl. 101—301.)



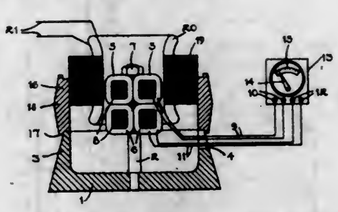
1. In a marking machine, the combination with a work support, of a printing head situated above the work support and movable toward and from the latter, said printing head having type-holding means constructed so that individual type may be inserted therein or removed therefrom from the side opposite that which faces the work support and while the printing head is in operative position in the machine, and means for locking the type in the printing head during the operative movement of the latter, said means forming a backing member for the type through which pressure is applied thereto for making the printed impression.

1,687,636. AERONAUTICAL PROPELLER. SYLVANUS A. REED, New York, N. Y., assignor to The Reed Propeller Co. Inc., New York, N. Y., a Corporation of New York. Filed May 12, 1924. Serial No. 712,646. 17 Claims. (Cl. 170—173.)



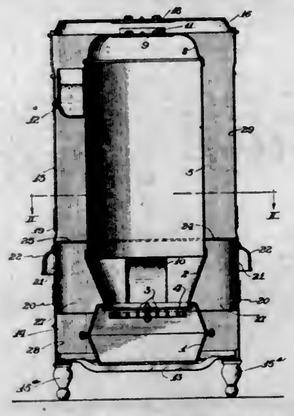
1. An aeronautical propeller having a nonaxially perforated central part and oppositely extending blades connected therewith and crossing the driving-axis so that said axis is parallel with the wide dimenison of said central part and said propeller twisted so that the trend of the twist is substantially continuous from end to end to equal resultant pitch-angles for each blade with the convex faces of both blades disposed on the same side of the propeller.

1,687,637. ELECTRICAL CENTERING DEVICE. ARTHUR B. REYNDERS, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 10, 1922. Serial No. 600,149. 4 Claims. (Cl. 175—183.)



1. In combination, in a device for relatively longitudinally centering two annular members to be telescopically related, indicating means and actuating means for said indicating means comprising a pair of elements, one of said members to be positioned with its radial center coinciding with a center between said elements, said elements being differentially related and to be inductively affected by the other member during the centering thereof to actuate said indicating means in accordance with the relative positions of said members.

1,687,638. DOWNDRAFT HEATER. HENRY J. RUPP, Quincy, Ill., assignor to Gem City Stove Manufacturing Co., a Corporation of Illinois. Filed Nov. 2, 1927. Serial No. 230,560. 11 Claims. (Cl. 126—67.)

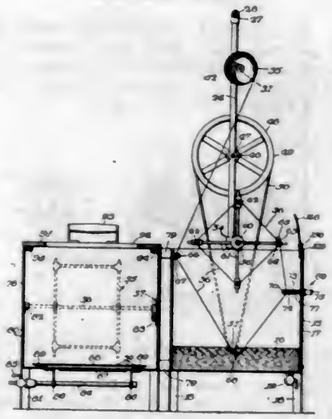


1. A heat circulating device comprising a casing having air-escape openings therein, a stove mounted in said casing, baffle means between said casing and stove, dividing the interior of said casing into upper and lower chambers, and aprons formed on said baffle means.

1,687,639. TAPE SPONGING AND SHRINKING MACHINE. JOSEPH SALTZMAN and FRITZ HERMAN LANGE, Chicago, Ill.; said Lange assignor to said Saltzman. Filed Apr. 16, 1927. Serial No. 184,205. 8 Claims. (Cl. 26—46.)

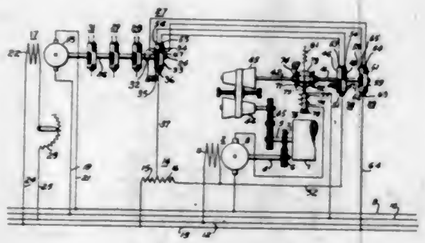
1. In a tape sponging and shrinking machine, a tank for containing water, a frame on the tank for rotatably

supporting a spool of tape above and over the tank, means for supporting a reel in a position over and partly extending into the tank, means for guiding the tape from the



spool into the tank for passing the same through the water therein and over the reel for winding the tape on the latter, and means for driving said parts.

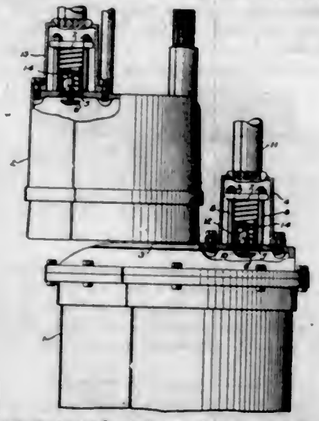
1,687,640. REGULATOR SYSTEM. STEPHEN A. STAEGE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 11, 1925. Serial No. 29,409. 10 Claims. (Cl. 172—293.)



1. In a regulator system, a dynamo-electric machine, means for varying the excitation of said dynamo-electric machine comprising rotary-contactor means actuated in accordance with the speed of said machine, and means for varying the phase relation between said machine and said rotary-contactor means in accordance with the load on said machine.

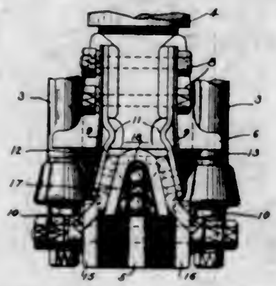
1,687,641. FLUID-PRESSURE TANK. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 26, 1921. Serial No. 448,239. 4 Claims. (Cl. 200—150.)

2. A fluid-filled electrical device provided with a two part venting device one part of which is provided with closure means for confining the fluid in the device during the time that the pressure of such fluid exceeds a predetermined limit, and the other part of which is provided



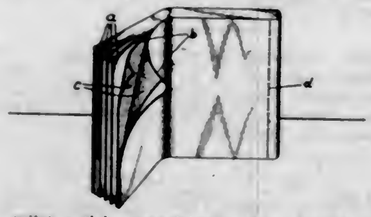
with closure means adapted to release the fluid from the device when the pressure of such fluid exceeds a predetermined further limit.

1,687,642. CIRCUIT INTERRUPTER. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 26, 1921. Serial No. 448,272. 2 Claims. (Cl. 200—144.)



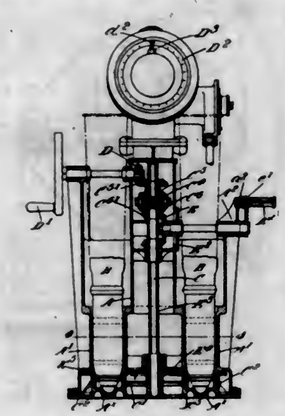
1. The combination with a contact member, of a relatively movable brush member comprising a plurality of laminæ arranged in edgewise relation to the face of the contact member and clamping means for the laminæ disposed at a distance from the ends of the laminæ, the portions of the laminæ beyond the clamping means being divided into oppositely flared groups whereby the lengths of the flexible portions of the individual laminæ are substantially equal.

1,687,643. TOILET PREPARATION. JACOB S. BERLINER, New York, N. Y. Filed Oct. 8, 1927. Serial No. 225,010. 5 Claims. (Cl. 132—78.5.)



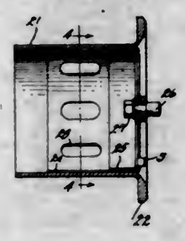
4. A toilet article comprising a sheet formed of two leaves having cold cream therebetween and whereof the external surfaces of the sheet are normally free from cold cream, but which cold cream is exposed for use by separating the sheet into the two leaves.

1,687,644. FUSE-SETTING DEVICE FOR PROJECTILES. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England, a British Company. Filed July 26, 1927, Serial No. 208,477, and in Great Britain June 17, 1926. 5 Claims. (Cl. 86—23.)



1. A fuse setting device for projectiles, comprising a container for the reception of a projectile, a member carried by said casing and adapted to engage with part of the fuse body, a member carried by said casing and adapted to engage with part of the adjustable portion of the fuse, an actuating device for each of said members, mechanism between each device and its particular member and a differential gear associated with said devices and said mechanisms.

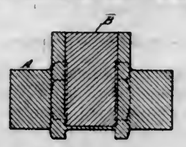
1,687,645. HOT-AIR REGISTER. PAUL E. DIEDERICH, Detroit, Mich., assignor to American Injector Company, Detroit, Mich., a Corporation of Michigan. Filed May 23, 1927. Serial No. 193,521. 2 Claims. (Cl. 98—2.)



1. A hot air register for heaters comprising a plate having segment shaped perforations therein occupying a circular area, the area of the perforations totaling more than 50 percent of the said circular area, and a perforated slidable shutter adapted in one position to close substantially one half of the area of said perforations and in another position to allow full opening of the perforations on a second perforated slidable shutter adapted in one position to close the other half of said area and in another position to allow full opening thereof.

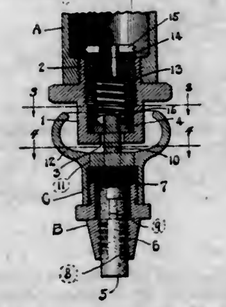
1,687,646. VALVE AND COCK. THOMAS SMITH DUNCAN, Westminster, London, England, assignor to Vickers Limited, Westminster, England, a British Company. Filed Feb. 16, 1927, Serial No. 168,581, and in Great Britain Feb. 18, 1926. 1 Claim. (Cl. 29—157.)

A method of making the bodies of cocks and valves mainly composed of light metal, comprising inserting in a body blank an element consisting of a different metal suitable for constituting a valve seat, forging the body



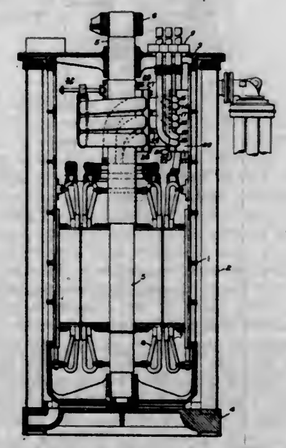
blank together with the inserted element into shape, and forming a valve seat in the material of said element by a suitable operation such as boring.

1,687,647. INSCRIBING INSTRUMENT. CHRISTOPHER A. GARVEY, Clayton, Mo.; Jennie Sinclair Garvey executrix of said C. A. Garvey, deceased. Filed Dec. 2, 1926. Serial No. 152,142. 7 Claims. (Cl. 15—133.)



1. An inscribing instrument comprising a reservoir for the inscribing fluid, a valve to control the discharge of fluid from said reservoir, a flexible inscribing tip, a rigid holder in which said tip is mounted, said holder being rigidly secured to said valve, said tip, holder and valve being tiltable in different directions relative to said reservoir so as to regulate the delivery of fluid to the tip, and a spring whereby the tiltable parts are restored.

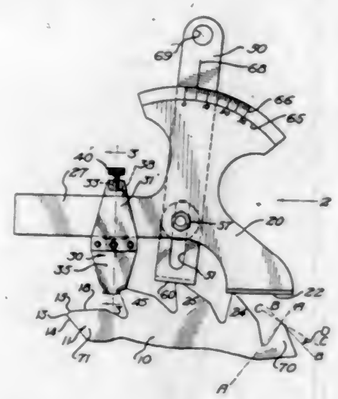
1,687,648. INDUCTION REGULATOR. MORRIS GELMAN and FRANK URSCHLER, Sr., Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 20, 1924. Serial No. 733,037. 9 Claims. (Cl. 171—119.)



1. In an induction regulator, the combination with a frame, a stator winding and a rotor winding within said frame, and a shaft for supporting said rotor winding,

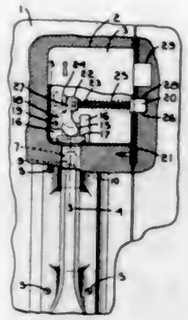
of leads connected to said rotor winding, and means carried by said shaft for supporting said leads in the form of a flat spiral about said shaft.

1,687,649. CUTTER CLEARANCE GAUGE. FRANK L. GILLETT, Los Angeles, Calif. Filed Sept. 8, 1927. Serial No. 218,131. 17 Claims. (Cl. 33—185.)



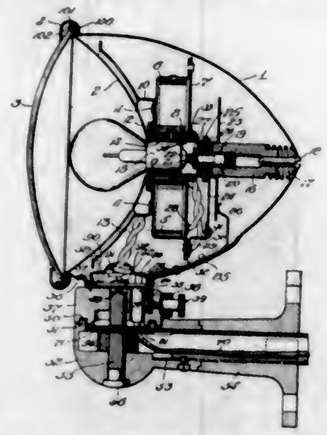
1. In a gauge adapted to measure an angle of a cutter tooth, the combination of: a frame adapted to simultaneously contact the cutting edges of a preceding and a succeeding tooth; and means pivoted to said frame for measuring an angle of said cutter tooth.

1,687,650. LATCH. BEDROS GIRAGOSIAN, Watertown, Mass. Filed Jan. 3, 1928. Serial No. 244,201. 4 Claims. (Cl. 292—166.)



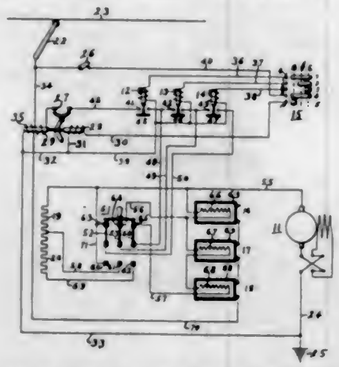
1. A latch mechanism adapted to be mounted on a door or like support comprising a push button having motion transverse to the plane of the support, a lever pivoted upon the support engaged at one end by said push button, a slide mounted in the support and capable of linear motion therein at right angles to the motion of said push button and engaged by the other end of the lever, a shoulder on said slide, a latch having a head on its inner end, a latch actuating lever pivoted upon the support engaged at one end by said shoulder and engaging the latch head at its other end, a guideway rigid with the support adapted to guide the latch and a spring tending normally to project the latch.

1,687,651. DEMOUNTABLE SPOTLAMP WITH EXTENSION CORD. ERNST G. K. ANDERSON, Chicago, Ill., assignor to Appleton Electric Company, a Corporation of Illinois. Filed Feb. 10, 1926. Serial No. 87,287. 10 Claims. (Cl. 240—8.18.)



1. In a spot lamp, a support, a lamp structure detachably connected to said support and provided with an extension cord, and means for placing a shunt around said cord when the lamp structure is on said support.

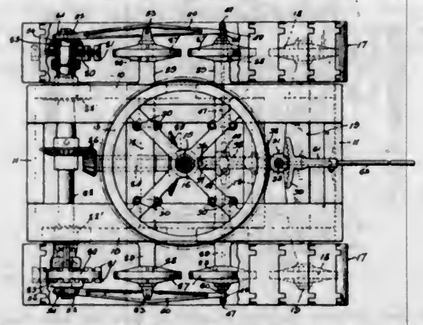
1,687,652. ELECTRIC HEATING SYSTEM FOR CARS. BASCOM O. AUSTIN, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 9, 1927. Serial No. 211,685. 6 Claims. (Cl. 219—20.)



2. In an electric-car-heating system, the combination with an electric motor for propelling the car, a motor circuit for supplying current to the motor, a line switch for the motor circuit, a resistor disposed outside the car, an electric heater disposed within the car, a switch for connecting either the heater or the resistor in the motor circuit, of a casing for the heater, a grounding circuit for the casing, and means connected in the grounding circuit for opening the line switch when current traverses the grounding circuit.

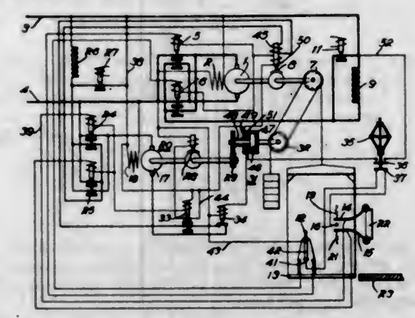
1,687,653. STEERING MECHANISM. SVANTE R. W. M. BAGER, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a Corporation of Delaware. Filed May 2, 1923. Serial No. 636,137. 13 Claims. (Cl. 180—9.2.)

1. In a machine of the character described the combination of a base frame, a creeping traction mechanism at each side of said frame, a head frame rotatable on said base frame, a drive shaft operated from said head frame, a clutch between each traction mechanism and said shaft, said clutches being disposed at the outer sides of said traction mechanisms, and a line of control for said clutches



extending from the head frame to a point in the base frame intermediate the two creeping traction mechanisms, thence branching and extending through axle members of the creeping traction mechanism to said clutches, for controlling said clutches to steer the machine.

1,687,654. ELEVATOR CONTROL SYSTEM. EDGAR M. BOUTON, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 16, 1922. Serial No. 536,872. 2 Claims. (Cl. 172—152.)



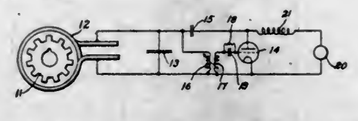
1. The combination with an elevator and a main hoisting motor therefor, of leveling means for said elevator comprising an auxiliary motor and braking means for variably loading said auxiliary motor to secure uniform leveling operations of said elevator.

1,687,655. CARTON AND METHOD OF WRAPPING MOPS. PETER BROWN, Chicago, Ill., assignor to O-Cedar Corp'n, a Corporation of Illinois. Filed July 29, 1926. Serial No. 125,625. 3 Claims. (Cl. 206—46.)



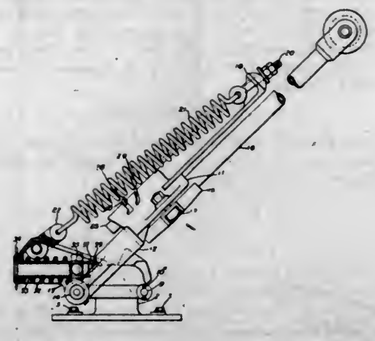
1. The combination with an implement having a head and a handle socket thereon, said handle socket having a shoulder thereon, of a sheet having an aperture adjacent each end thereof, said sheet being adapted to be wrapped about said head with its ends overlapping and positioned over said socket, the latter extending through said apertures with the outer overlapped end in locking engagement with said shoulder.

1,687,656. HEAT-TREATING METHOD. WALTER JOHN BROWN, Davenport Park, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 17, 1926, Serial No. 123,189, and in Great Britain July 23, 1925. 3 Claims. (Cl. 148—4.)



1. The method of heat-treating an object consisting of electrically conducting material which comprises raising the surrounding temperature nearly to that to which it is desired to heat the surface of the object, subjecting the object to an alternating electro-magnetic field of such frequency that heat is developed substantially at the surface only of the object, and quenching the object before the interior thereof has reached an undesirably high temperature.

1,687,657. TROLLEY BASE. LELAND F. BURNHAM, Pittsburgh, Pa., LESTER H. KEIM, Los Angeles, Calif., and CARL SCHAFER, Allison Park, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 10, 1925. Serial No. 61,691. 4 Claims. (Cl. 191—70.)

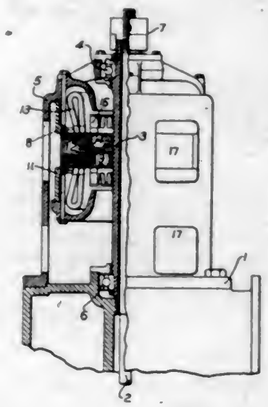


1. The combination, in a trolley base, of a foot for mounting the base on a vehicle roof, a swivel frame carried by said foot, a combination pole and spring bracket pivotary member, and an electric motor comprising a stator core ingly restraining angular movements of said bracket, said buffer comprising a trunnion member slidingly mounted in an opening in an extended portion of said frame, a spring member disposed in a second opening in said frame in engagement with said trunnion member, a tube disposed within said spring and means for securing said tube and spring in said frame.

1,687,658. SLEEVED PUMP MOTOR. DAVID J. CONANT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1926. Serial No. 127,723. 7 Claims. (Cl. 103—87.)

1. In a hydraulic pumping mechanism, the combination with a pump base at the top of a well, of a vertical pump shaft extending a substantially standard distance above the pump base, a sleeve of standard length sur-

rounding the upper portion of said pump shaft, a driving connection between the upper ends of said shaft and said sleeve, a radial and thrust bearing for the upper portion of said sleeve, supporting means for supporting said bearing at a standard distance above said pump base, said supporting means and pump base constituting a station-



ary member, and an electric motor comprising a stator core and a rotor core supported by said stationary member and said sleeve, respectively, said supporting means, said sleeve and said pump shaft being each of a standard height sufficient to accommodate any one of a series of motors of different ratings.

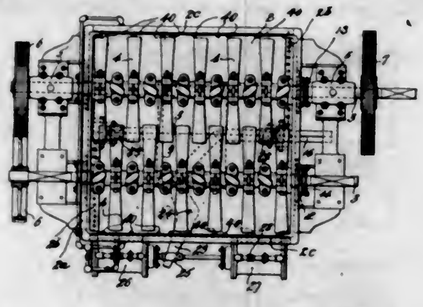
1,687,659. HAIR-WAVING APPARATUS. FÉLIX COUNÉ, Chicago, Ill. Filed Jan. 18, 1924. Serial No. 686,976. 29 Claims. (Cl. 132—34.)



1. In a device of the class described, in combination, a curler or bobbin adapted to be used for permanently waving hair by having the hair wound thereon and then placed within a tube for heating, said bobbin comprising a substantially elongated body portion for receiving the hair, and a clamp including means for positively gripping the hair to said bobbin at each end and fitting with said bobbin into said tube.

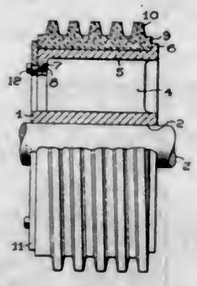
1,687,660. MIXER FOR ROAD MATERIALS. FREDERICK HENRY CUMMER, Los Angeles, Calif. Filed Nov. 19, 1925. Serial No. 70,104. 1 Claim. (Cl. 83—73.)

A mixer for road materials, including a receptacle having its bottom in the form of two cylindrical surfaces intersecting at a peak and provided with a central opening, and a movable valve for said opening, comprising a bar extending beneath said receptacle in the peak between said intersecting surfaces and provided with a recess, a saddle



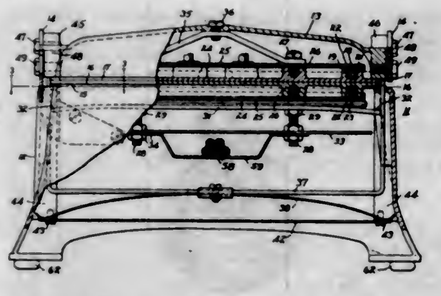
like gate for said opening straddling said bar and removably seated in said recess, and means for operating said bar.

1,687,661. GEAR-GRINDING DEVICE. GEORGE M. EATON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 27, 1923. Serial No. 671,142. 6 Claims. (Cl. 51—206.)



1. An abrasive device comprising a cylinder having a helical groove, abrasive inserts contiguously mounted in said groove, metal liners for said inserts and means for securing said inserts therein.

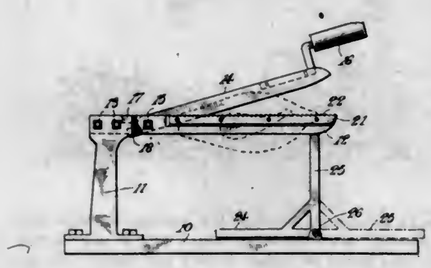
1,687,662. SANDWICH TOASTER. CARL J. FAY, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 4, 1927. Serial No. 196,413. 7 Claims. (Cl. 53—5.)



1. In an electrical cooking appliance, in combination, a lower box-like casing, an upper casing movable toward and away from said lower casing, and a resiliently supported

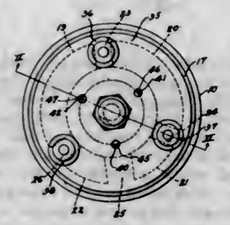
member of substantially U-shape in said lower casing for partially supporting said upper casing when it is located adjacent to the lower casing.

1,687,663. APPARATUS FOR CUTTING FOWLS. HYMAN GOLDFINGER, Astoria, N. Y., assignor of fifty one-hundredths to Gus Lipschutz, Irvington, N. J. Filed Mar. 28, 1928. Serial No. 265,350. 5 Claims. (Cl. 17—11.)



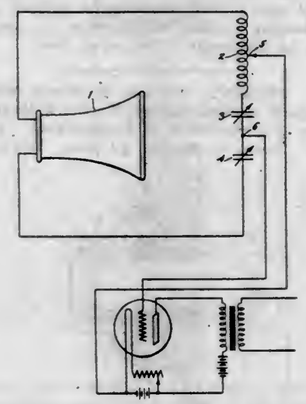
1. An apparatus for cutting a fowl or the like comprising a stationary knife rigidly held in horizontal position at one end, a cooperating knife pivotally attached to the first knife near its fixed end, and means providing a support for the free end of the stationary knife while permitting the fowl to be slid on said knife.

1,687,664. THERMOSTAT. LEWIS J. GREENAWALT, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1926. Serial No. 117,952. 7 Claims. (Cl. 200—138.)



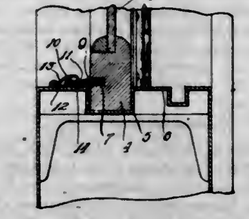
1. In a thermostatic switch, in combination, a supporting plate, a thermostatic disc mounted on said supporting plate in spaced relation thereto and having a maximum-deflection zone and a minimum-deflection zone, a plurality of stationary contact members insulatedly mounted on said supporting plate adjacent contact members being separated by air gaps, a plurality of bridging contact members insulatedly mounted on said thermostatic disc within the maximum-deflection zone, each of said bridging contact members being in register with a gap and being adapted, upon response of said thermostatic disc to a predetermined thermal change, to bridge said gap and electrically connect the adjacent stationary contact members separated by said gap, and a guide member associated with said thermostatic disc at a point within the minimum-deflection zone for maintaining each of said bridging contact members in register with the corresponding gap.

1,687,665. MICROPHONE CIRCUIT. CLINTON R. HANNA, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 2, 1924. Serial No. 717,244. 4 Claims. (Cl. 179—1.)



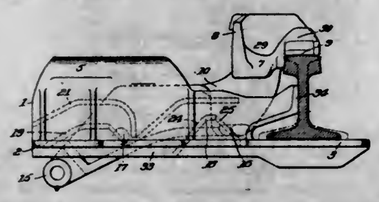
1. In a sound-translating device, a microphone having a resonance period, a circuit including said microphone and having the same resonance period, connections to said circuit at separated points, the portion of said circuit between said points also having the same resonance period.

1,687,666. WEATHERPROOFING STRUCTURE. DAVID H. HARNLY, Chicago, Ill. Filed Sept. 23, 1926. Serial No. 137,200. 2 Claims. (Cl. 20—69.)



1. A weather strip comprising a flexible member, a metal sheath partially incasing the same, a base support for said incased member, and a metal plate secured at one edge to said base support and having a deformed part extending over said incased member, said deformed part terminating in a gripping edge for engaging said sheathed member and anchoring the same to said base support.

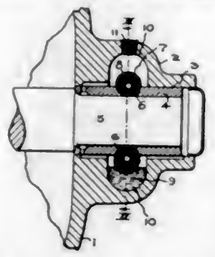
1,687,667. DERAIL. MAXIMILIAN JOSEPH HELMES, New York, N. Y., assignor to Q & C Company, New York, N. Y., a Corporation of Maine. Filed Apr. 8, 1927. Serial No. 181,922. 8 Claims. (Cl. 246—163.)



1. A derail comprising a standard provided with bearing surfaces and a derail member movably associated therewith and provided with co-acting bearing surfaces, said bearing

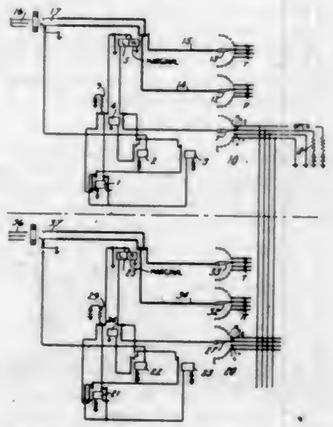
surfaces effective at the extreme forward position of the derail member comprising downwardly and forwardly inclined bearing surfaces on the standard angularly disposed with relation to the path of movement of the derail member and co-acting surfaces on the derail member angularly disposed to said path of movement to provide a shifting point of bearing contact and to impart a vertical component to the movement of the derail head.

1,687,668. BEARING. WALTER H. HIMES, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1925. Serial No. 39,000. 2 Claims. (Cl. 308—132.)



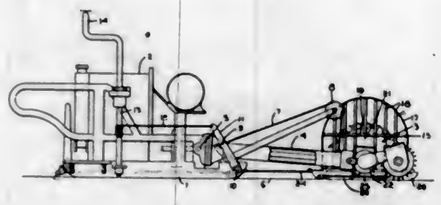
1. A horizontal-shaft machine adapted to be mounted on either the floor, wall or ceiling, and having a bearing comprising a perforated bearing-bushing sleeve, a bearing housing providing an annular lubricant-storing chamber surrounding said bushing sleeve in the plane of said perforation the annular lubricant-storing chamber being so shaped that it will hold lubricant at a substantially constant height with respect to the periphery of said bushing sleeve regardless of the mounting of said machine, and a lubricant-feeding means for conveying lubricant from said annular chamber to said perforation regardless of the mounting of said machine, said lubricant-feeding means comprising a garter spring surrounding said bushing sleeve and entirely wrapped with wick material of sufficient thickness to dip down into the said lubricant, whereby said shaft is lubricated without the possibility of a contact between the spring and the shaft.

1,687,669. TRUNK-TESTING CIRCUITS FOR SELECTOR SWITCHES. EDWARD E. HINRICHSEN, New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Apr. 9, 1925. Serial No. 21,787. 22 Claims. (Cl. 179—27.)



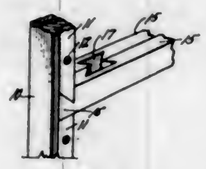
1. In a telephone exchange system, in combination, a plurality of switches, lines, a primary driving circuit for each switch, a primary test circuit to control said primary driving circuit for the selection of an idle line, a secondary driving circuit for each switch and a secondary test circuit to control said secondary driving circuit when more than one of said switches has selected the same idle line.

1,687,670. SAW GUARD. PLINY E. HUSSEY, Beverly, Mass. Filed Jan. 9, 1928. Serial No. 245,319. 9 Claims. (Cl. 262—20.)



1. In an ice-cutting machine, the combination with vertically-movable saw-supporting means and a saw carried thereby, of a guard enclosing the saw and capable of vertical movement relative thereto, said guard resting on the ice when the saw is operatively cutting the ice and being supported by the saw-supporting means when the saw is raised from the ice.

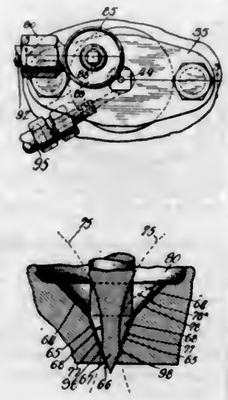
1,687,671. SHELVING CONSTRUCTION. WILLIAM E. JUNE, Denver, Colo., assignor to Perry E. June, Sacramento, Calif. Filed Nov. 9, 1927. Serial No. 232,034. 6 Claims. (Cl. 211—148.)



4. Shelving construction comprising vertical stiles; dovetailed recesses in the sides of said stiles; cleats having dovetailed extremities adapted to fit within said recesses; shelves arranged to be carried by said cleats; means for clamping a pair of cleats together, so that the extremities of the pair will engage in recesses on opposite sides of said stiles, said means adapted to also clamp adjoining shelves together; dove-tailed grooves extending transversely of one face of said cleats and a double dove-tailed plug adapted to fit into co-acting grooves so as to clamp two said cleats together into opposite sides of said stiles, said plugs arranged to extend into dove-tailed cuts in the extremities of said shelves so as to lock adjoining shelves together.

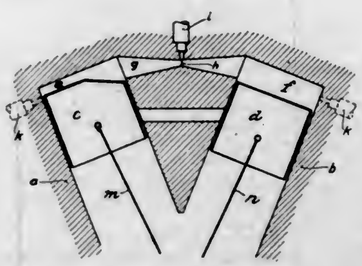
1,687,672. ATOMIZING DEVICE. FRANZ LANG, Munich, Germany, assignor, by mesne assignments, to Acro Aktiengesellschaft, Kussnacht am Rigi, Switzerland, a Corporation of Switzerland. Original application filed June 22, 1923, Serial No. 647,001, and in Germany Oct. 14, 1921. Divided and this application filed Jan. 12, 1925. Serial No. 1,940. 16 Claims. (Cl. 299—133.)

1. In a nozzle device for liquid atomization, the combination of means having a tapered recess terminating in a discharge orifice having a sharp edge, a valve member having a tapered part encompassed by said recess, means for limiting the lift of the valve whereby the surface of said recess and that of said tapered part are only minutely spaced apart at the time of atomization, and means for prediffusing the fuel a very slight distance from the discharge orifice, the end of said tapering part projecting



beyond said orifice at the time of atomization to cooperate with said sharp edge in producing abrasive effects upon the fuel.

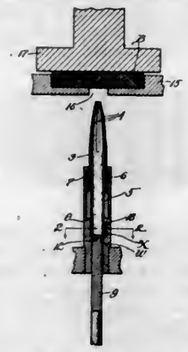
1,687,673. INTERNAL-COMBUSTION ENGINE. FRANZ LANG, Stuttgart, Germany, assignor to Acro Aktiengesellshaft, Kussnacht am Rigi, Switzerland. Filed Nov. 6, 1925, Serial No. 67,230, and in Germany Nov. 29, 1924. 2 Claims. (Cl. 123—53.)



1. A combustion engine, comprising, in combination a pair or plurality of pairs of cylinders, a main connection channel between each pair of cylinders, a further overflow channel betwen said pair of cylinders and a nozzle adapted to feed the fuel to said overflow channel, the latter being shaped in the form of a double nozzle, the narrowest parts of which are at or adjacent to the injection nozzle.

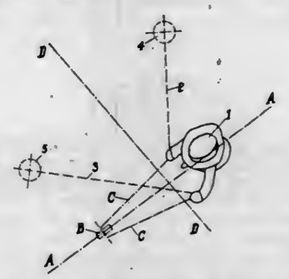
1,687,674. METHOD OF LOADING RUBBER HEEL BLANKS WITH WASHERS AND TOOL FOR USE IN SAME. VICTOR R. LAWSON, Boston, Mass., assignor to Lawson-Whitehead Company, Boston, Mass., a Corporation of Massachusetts. Filed May 7, 1924. Serial No. 711,694. 9 Claims. (Cl. 18—59.)

1. That improvement in the process of loading a rubber heel blank with washers which consists in making a hole in the blank, pressing back the stock forming the walls of the hole and restraining its tendency to return to its original condition, inserting a washer flatwise in said hole, and releasing the restrained stock and permitting it to



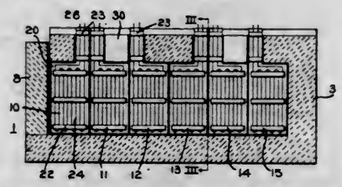
spread freely inward over the margin of the washer and lock it in the blank while holding the washer at the desired depth.

1,687,675. MECHANICAL TOY. ERNST PAUL LEHMANN, Brandenburg-on-the-Havel, Germany. Filed Dec. 22, 1926, Serial No. 156,470, and in Germany Feb. 26, 1926. 9 Claims. (Cl. 46—40.)



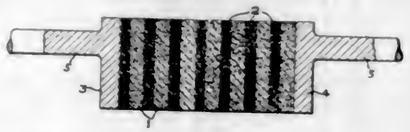
1. A walking toy figure, comprising clockwork mechanism for imparting walking movements to its legs, and supporting rods extending laterally at different angles to the same side of a vertical plane extending through the figure in the direction in which the mechanism tends to cause it to advance, said suporting rods each being rigidly attached to the figure at one end and touching the ground at the other end so as to deflect the line of movement of the figure from a rectilinear into a substantially circular path.

1,687,676. ELECTRIC FURNACE. ROLLO B. LINCOLN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 16, 1927. Serial No. 168,577. 6 Claims. Cl. 266—1.5.)



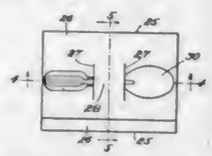
1. In an electric-resistance furnace, the combination with a plurality of walls defining a furnace chamber, of a plurality of heating units disposed along one of said walls and means permitting the successive removal of said units through a slot in an adjacent wall, the effective length of said slot being less than the combined widths of two of the units disposed thereunder.

1,687,677. RESISTOR AND METHOD OF MAKING THE SAME. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 27, 1922. Serial No. 590,753. 9 Claims. (Cl. 201—68.)



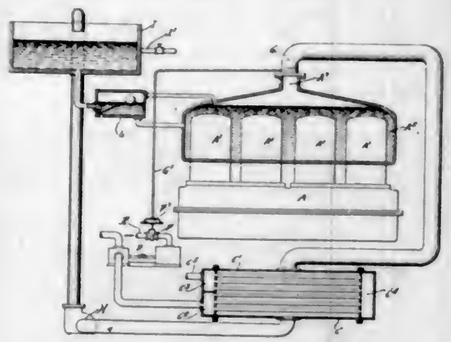
9. A resistor comprising adjacent contacting plates of resistor material of different degrees of hardness, alternate plates being composed of hard resistor material containing a substantial amount of carbon and the remaining plates being composed of soft resistor material containing a substantial amount of carbon.

1,687,678. CONTAINER OR WRAPPER. GEORGE P. MALLORY, Philadelphia, Pa., assignor to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed June 2, 1923. Serial No. 643,044. 5 Claims. (Cl. 229—1.5.)



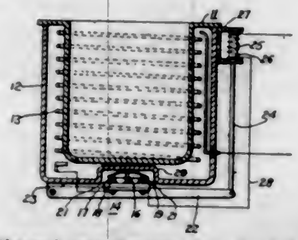
1. A container comprising portions having superposed straps which register with one another when said container is closed, in combination with a detachable utensil extending under the superposed straps of both of said portions and held in place thereby while holding said container closed.

1,687,679. ENGINE-COOLING SYSTEM. HARRY C. MALLORY, New York, N. Y.; Sue R. Mallory administratrix of said Harry C. Mallory, deceased. Filed Oct. 30, 1922. Serial No. 597,789. 2 Claims. (Cl. 123—178.)



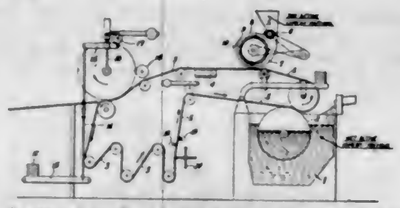
1. An engine cooling system of the boiling and condensing type comprising a cooling jacket surrounding the engines and having a vapor space at the top thereof, a condenser connected to said vapor space for condensing vapors formed by the absorption of heat by a cooling liquid contained in said jacket, means for supplying a cooling liquid to said condenser, and means for regulating the supply of said condenser cooling liquid in accordance with the temperature in said jacket.

1,687,680. CONTROL DEVICE. HOWARD D. MATTHEWS, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 12, 1925. Serial No. 55,907. 4 Claims. (Cl. 236—1.)



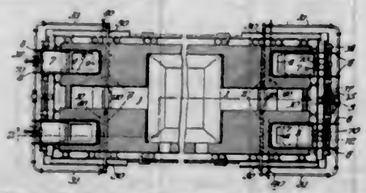
1. In a thermal control system for a heated device, the combination with an electric resistor for heating said device, and a thermostatic switch for controlling the energization of said resistor, said switch being responsive to the temperature of the heated device, of means controlled by the thermostatic switch for reducing the heat flow thereto from the heated device when the resistor is deenergized and for increasing said heat flow upon reenergization of the resistor.

1,687,681. CEMENT PRODUCT. RICHARD V. MATTISON, Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company, a Corporation of Pennsylvania. Filed Oct. 1, 1924. Serial No. 740,971. 6 Claims. (Cl. 92—41.)



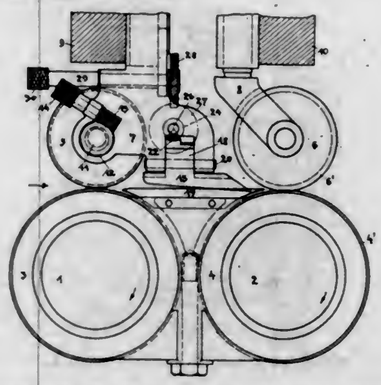
1. A cement product comprising a plurality of film-like layers of hydraulic cement-like material hydrated by mixing with an excess of water and a plurality of intermediate film-like layers of hydraulic cement material between said first named layers and hydrated by water received from said first named layers on each side of the cement material, the whole being pressed and permitted to set together so as to bind the entire series of layers into an integral, rigid mass.

1,687,682. OPERATION OF OPEN-HEARTH FURNACES. FRANK B. MCKUNE, Hamilton, Ontario, Canada, assignor, by mesne assignments, to Open-Hearth Combustion Company, Chicago, Ill., a Corporation of Delaware. Filed May 5, 1922. Serial No. 558,755. 6 Claims. (Cl. 263—15.)



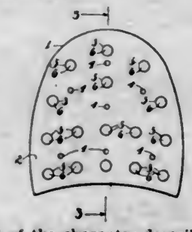
1. The method of metallurgical heating, which consists in mixing air with fuel, introducing said mixture into a furnace chamber through a relatively constructed inlet, introducing additional air through another inlet, burning the fuel in the furnace and conducting the products of combustion from said furnace chamber through said inlets and additional areas together forming an outlet of greater area than the combined areas of said inlets.

1,687,683. APPARATUS FOR THE GROOVING OF CARDBOARD. ERNST MÖGEL, Meissen-on-the-Elbe, Germany, assignor to the Firm Aktiengesellschaft für Cartonnagenindustrie, Dresden, Germany. Filed Nov. 2, 1927, Serial No. 230,611, and in Germany Nov. 4, 1926. 12 Claims. (Cl. 92—70.)



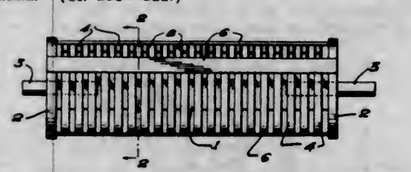
1. Apparatus for the grooving of cardboard, including corrugated cardboard, comprising three blades so placed as to form a gradually tapering channel-shaped passage, and rollers for drawing the cardboard through said passage so that two of the blades bear against it one one side and the other on the other side, at a position between the first two blades.

1,687,684. RUBBER HEEL. JOSEPH NUGENT, San Jose, Calif. Filed Oct. 13, 1927. Serial No. 226,010. 1 Claim. (Cl. 36—59.)



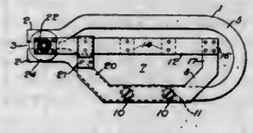
A rubber heel of the character described, having a wearing surface formed on one side thereof and a recess formed in the other surface thereof and having orifices formed therein communicating with said recess and wearing surface, a leather peg positioned in each orifice and provided with a head seated in said recess, and a covering for the heads of the several pegs.

1,687,685. PICK-UP DRUM. DAVID W. OLINGER, Milton, Oreg. Filed Aug. 23, 1927. Serial No. 214,919. 5 Claims. (Cl. 198—211.)



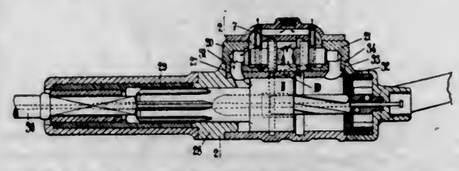
2. A pick up drum comprising a core, a plurality of series of fingers carried by the core and disposed in the same general direction, each series of fingers being spaced lengthwise of the core and projecting therebeyond, a pick up strip carried by the outer extremities of each series of fingers, and discs carried by the ends of the core, the pick up strips being secured to the peripheral edges of the discs.

1,687,686. TEMPERATURE-COMPENSATING DEVICE. PAUL PASCHEN, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 23, 1925, Serial No. 45,560, and in Germany May 27, 1924. 4 Claims. (Cl. 171—34.)



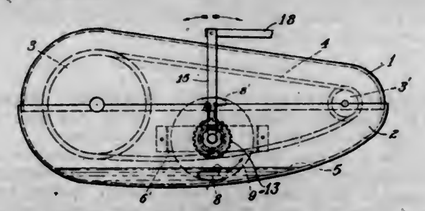
1. In a meter, the combination with a movable element and a stationary damping magnet therefor, of an elongated temperature-responsive movable element extending substantially parallel to the median plane of the magnet, and a magnetizable member disposed on the temperature-responsive element and movable thereby adjacent to the poles of the magnet in a direction substantially normal to said plane, said magnetizable member being also adjustably movable in the direction of its movement relative to the temperature-responsive element.

1,687,687. PERCUSSIVE ROCK DRILL. ERNEST PENBERTHY, Redruth, Cornwall, England, assignor to The Climax Rock Drill & Engineering Works Limited, London, England, a Company of Great Britain. Filed Mar. 24, 1927, Serial No. 178,022, and in Great Britain Apr. 21, 1926. 1 Claim. (Cl. 121—13.)



In a percussive rock drill a hammer cylinder, a valve chamber mounted on said hammer cylinder, two bushings fitted one into each end of said valve chamber, shoulders on said bushings, said shoulders having an engaging face extending in a plane at right angles to the longitudinal axis of the bushings and at an angle to the horizontal, an annular dividing ring at one end of said hammer cylinder, an annular end cover on the other end of said hammer cylinder, and projections, one on the said dividing ring and one on the said end cover, said projections extending laterally from said dividing ring and said end cover, said projections having engaging faces, which are complementary to the engaging faces of the shoulders and co-operate therewith for the purpose of retaining the bushings in position and preventing movement thereof.

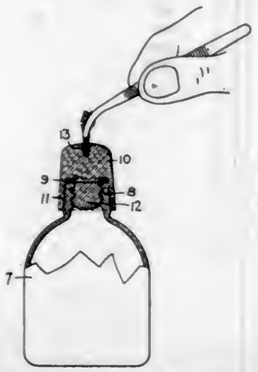
1,687,688. MECHANICAL LUBRICATOR FOR CHAINS. DAVID B. PERRY, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a Corporation of New York. Filed May 20, 1927. Serial No. 192,958. 4 Claims. (Cl. 184—15.)



1. In a mechanical lubricator for chain drives, the combination of a case adapted to contain a chain drive, the lower portion of the case forming an oil reservoir below

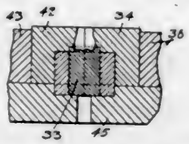
the lower strand of the chain drive, an oil conducting means extending transversely across the case between the upper and lower strands of the chain drive, and arranged so that oil fed to the conducting means may drop upon the lower strand of the chain, a shaft passing thru a wall of the case above the level of the oil in the reservoir, means for rotating said shaft, and means rotated by said shaft for elevating oil from said reservoir up to a region above said conducting means from which the oil may flow down to said conducting means, said elevating means including a container which dips into the oil of the reservoir, the oil being retained in said container by gravity while being elevated.

1,687,689. BOTTLE. JACOB PETRY, Pittsburgh, Pa. Filed Apr. 14, 1924. Serial No. 706,604. 1 Claim. (Cl. 215—47.)



The combination with a bottle for containing a medicinal preparation for dental work, of a stopper therefor having screw-threaded connection with the bottle neck and provided with a downwardly-tapering recess, the wall of the recess being defined by unbroken curved lines, and having a width not substantially greater than the diameter of the average tooth cavity, whereby fibrous material may be rolled therein to form a pellet for a tooth cavity.

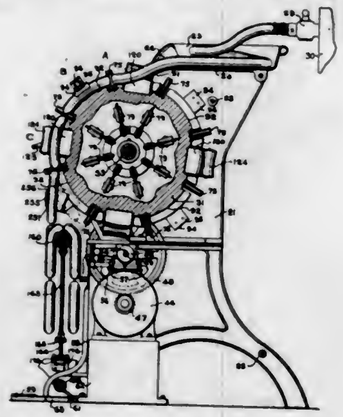
1,687,690. DENTAL CROWN. JACOB PETRY, Pittsburgh, Pa. Filed Dec. 8, 1925. Serial No. 74,203. 4 Claims. (Cl. 113—39.)



1. Die structure for forming cartridge-like members having their closed ends of greater diameter than their open ends, comprising a bottom die member, a lateral die member normally fixed relative to said bottom die member, and a second lateral die member movable with respect to the other members.

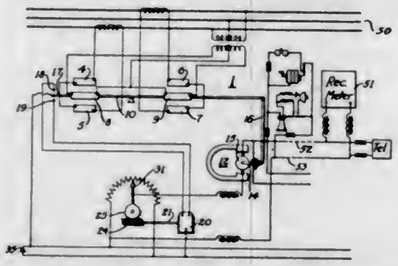
1,687,691. SAUSAGE-LINKING MACHINE. HERMANN E. PFEIFFER, Cincinnati, Ohio. Filed Apr. 16, 1924. Serial No. 706,995. 23 Claims. (Cl. 17—34.)

1. In a sausage linking machine, the combination of a rotary carrier, pinching means for the cased sausage arranged in pairs about said rotary carrier, holding means for holding the cased sausage upon said carrier arranged about said carrier between alternate adjacent pairs of said pinching means, and rotating means for rotating pinched sections of said cased sausage located between alternate adjacent pairs of said pinching means, said holding means and said rotating means alternating about said rotary carrier between adjacent pairs of pinching



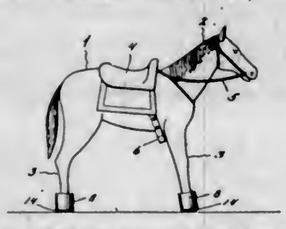
means, and means for rotating said carrier, said pinching means, said holding means and said rotating means in unison about the axis of rotation of said carrier.

1,687,692. ELECTRICAL METERING SYSTEM. RAYMOND T. PIERCE, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 2, 1924. Serial No. 684,063. 7 Claims. (Cl. 171—95.)



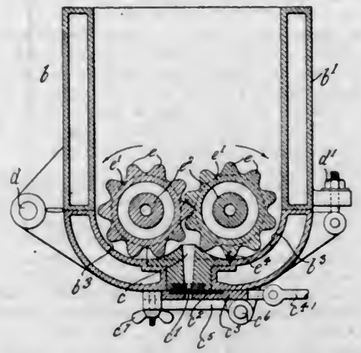
5. A transmitting instrument for a metering system comprising a Kelvin-balance element, a D'Arsonval ammeter coupled to said Kelvin-balance and means for controlling the current through said ammeter to maintain said Kelvin-balance in equilibrium.

1,687,693. BUCKING TOY HORSE. LUCIUS S. PRATT, Roanoke, Va., assignor of one-half to Carl F. Strunck, Hendersonville, N. C. Filed Apr. 19, 1927. Serial No. 184,876. 7 Claims. (Cl. 272—53.)



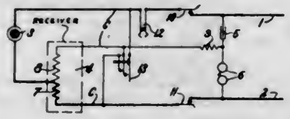
1. In a toy of the character described, a body having legs terminating in feet, the feet being formed of telescopic sections and containing cushioning means.

1,687,694. APPARATUS FOR MEASURING AND FEEDING PLASTIC SUBSTANCES. WILLIAM EDWARD PRESCOTT, London, England, assignor to Baker-Perkins Company, Inc., White Plains, N. Y. Filed Apr. 26, 1923, Serial No. 634,886, and in Great Britain May 3, 1922. 2 Claims. (Cl. 107—29.)



2. An apparatus for measuring and feeding plastic substances in divided streams comprising in combination a container, a pair of rotatable rollers in said container, said rollers having intermeshing teeth and a plurality of circumferential grooves intersecting said teeth, a base plate having a plurality of discharge nozzles and partitions between said nozzles extending transversely of the axes of the said rollers and engaging severally in the circumferential grooves of the said rollers and extending to said base plate whereby to divide the feed space into several compartments each having its separate discharge nozzle.

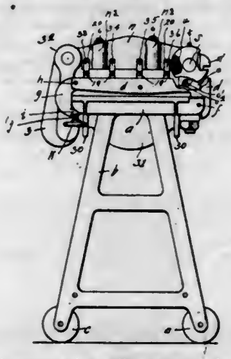
1,687,695. ANTI-SIDE-TONE SUBSTATION CIRCUITS. HAROLD C. PYE, Oak Park, Ill., assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 3, 1926. Serial No. 91,876. 3 Claims. (Cl. 179—81.)



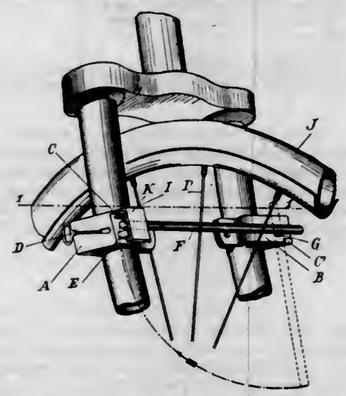
1. In an antiside-tone substation, a transmitter, a receiver having two windings, a resistance, a condenser, a ringer, a line circuit, means for connecting said instrumentalities across said line circuit to form an antiside-tone booster substation, a calling device having impulse springs in series with said line circuit and shunt springs for short circuiting said transmitter and receiver while said dial is being operated, said shunt springs also bridging said impulse springs with said condenser and resistance to eliminate sparking and connecting said resistance in multiple with said ringer to prevent its tapping during impulsing.

1,687,696. SAW-BRAZING CLAMP. JEROME B. RICKER and CHARLES A. PERSON, Enterprise, and EDWARD P. ARMSTRONG and HENRY W. ARMSTRONG, Portland, Oreg. Filed Mar. 7, 1927. Serial No. 173,546. 18 Claims. (Cl. 113—92.)

1. In a saw-brazing clamp comprising a brazing-table and means for securing on the table the saw ends to be brazed, means for applying pressure to the seam of the saw, comprising a frame-member, a series of independently adjustable pressure-blocks carried by said frame-member, a wedge element cooperating with each pressure-block, said wedge elements composed of wedges of graduated taper and companion gibs secured in said frame between which said wedges are inserted.



1,687,697. THEFT-PREVENTING ROCKING LOCK FOR BICYCLES. EDOUARD SOULLIÈRE, Salon, France. Filed Oct. 7, 1926, Serial No. 140,176, and in France Oct. 21, 1925. 1 Claim. (Cl. 70—90.)



In a theft preventing lock for bicycles, the combination of a locking rod, a first box fixed on one of the branches of a fork of the bicycle, said box containing a lock key operated to unlocking position, being closed at its top to protect said lock and open at its bottom to receive one end of said locking rod, a second box fixed on the other branch of said fork, an axle movably mounted in said second box and projecting from the front face thereof having its projecting end fixed to the other end of said locking rod, and a recalling device within said second box to retract said locking rod.

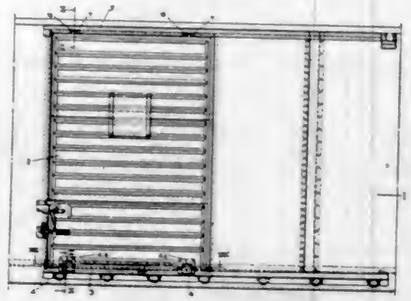
1,687,698. SELF-OILING SWING HOOK. AUGUST SPEIDEL, Omaha, Nebr. Filed July 6, 1926. Serial No. 120,737. 3 Claims. (Cl. 248—64.)



2. A two part hook for supporting a swing member, one of said parts having means for securing it to an

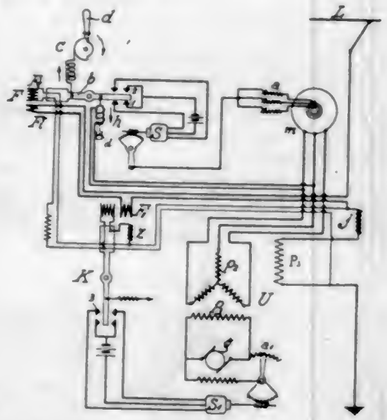
elevated stationary support and the other having means for securing it to a swing, a pivotal connection between said parts comprising a lubricant pan of pyramidal shape attached to one of said parts and whose sides extend upwardly from a central apex forming a bearing for the other part which is provided with a depending member engaging said apex so as to give the lower part room to automatically adjust itself laterally, in case the upper part should be out of line with the lower, this lateral adjustment taking place inside of the lubricant pan.

1,687,699. HOUSE CAR. KENNETH J. TOBIN, AXEL WASBERG, and GABRIEL MADLAND, Chicago, Ill., assignors to Camel Company, Chicago, Ill., a Corporation of Illinois. Filed May 26, 1927. Serial No. 194,266. 3 Claims. (Cl. 20—23.)



1. In a house car having a doorway, a sliding door for closing said doorway, upper and lower guides and sustaining means for said door, each guide having spaced indentures and said door having means adapted for entering said indentures when said door is closed, said means riding out of said indentures and moving the door outwardly when the same is opened.

1,687,700. PLANT WORKING WITH INDUCTION MOTOR FED FROM SYNCHRONOUS PHASE CONVERTER. KALMAN VON KANDÓ, Budapest, Hungary, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 22, 1925, Serial No. 25,063, and in Hungary May 28, 1924. 16 Claims. (Cl. 172—274.)

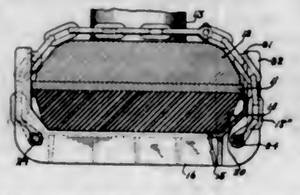


1. An electrical system comprising, in combination, an induction motor, a synchronous phase-converter feeding said motor, said converter having an exciting circuit, means for regulating the exciting effect of said exciting circuit to vary the terminal voltage on said motor in accordance with the load, a starting device for the motor, and means for automatically regulating the starting effect of said starting device in accordance with the terminal voltage on the motor and the load.

11. The combination of a variably excited synchronous machine, an electric motor adapted to be energized therefrom, a multi-position starting regulating device for said motor, mechanical actuating means for adjusting said starting regulating device, and electro-responsive controlling means for starting, stopping and reversing said actuating means, said controlling means being responsive to an equilibrium of forces and including means for developing a force in accordance with the effective excitation of said synchronous machine and means for developing an opposing force in accordance with the load.

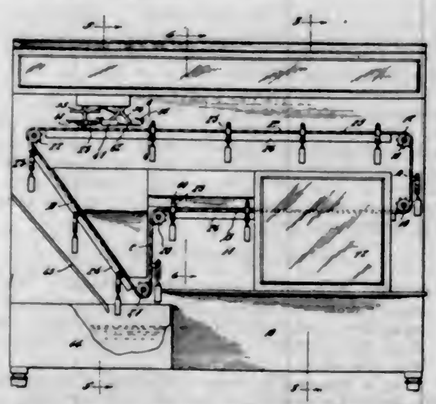
16. The combination with a variable-voltage electric motor, of a multi-position regulating device therefor, a servo-motor for adjusting said regulating device, a controlling wattmeter for developing a force in response to the load, yieldable means for developing an opposing force, means responsive to both of said forces for controlling said servo-motor, and a manually adjustable controller for causing an adjustment of the relative magnitudes of said forces.

1,687,701. MUD GRIP. JACOB J. WEIER, Chicago, Ill. Filed Nov. 8, 1926. Serial No. 146,886. 4 Claims. (Cl. 152—2.)



1. A mud grip for a wheel having a felloe and a rim and a solid tire, said grip comprising a body portion, end means on said body portion for closely engaging the sides of said solid tire and rim and having spaced flanges, said end means and flanges extending inwardly from said portion for the depth of said tire and rim and felloe, and chain means extending between said spaced end flanges and through spaces on said end means for closely engaging the felloe and firmly holding the grip in position.

1,687,702. CONFECTION-MAKING MACHINE. MAX WOLFF, Coney Island, N. Y. Filed Dec. 9, 1927. Serial No. 238,922. 9 Claims. (Cl. 107—1.)

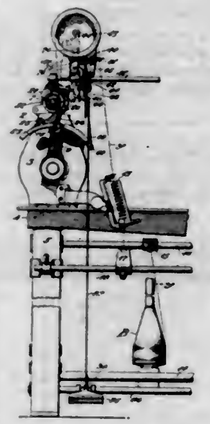


1. In a confection making machine, a conveyor, driving means therefor, article carriers swingingly mounted on said conveyor, means disposed in the path of movement of said carriers for successively swinging said carriers in opposite directions, a container adapted to contain a supply of substance to be applied to the confection adapted to be suspended from said article carriers, and dispensing means operable for releasing the substance in said container after said article carriers have swung to the limits of their swinging movements in opposite directions.

1,687,703. PROCESS FOR THE PRODUCTION OF CLEAR BRINE OR OTHER LIQUORS. ARTHUR W. ALLEN, Berkeley, Calif. Original application filed Nov. 24, 1925, Serial No. 71,236. Divided and this application filed Sept. 2, 1927. Serial No. 217,309. 5 Claims. (Cl. 23—41.)

1. A process for the clarification of a turbid liquor, comprising the addition of a sufficiency of small crystals of a watersoluble chemical compound that is insoluble in the liquor under the prevailing temperature-concentration conditions, and the filtration of the resultant pulp, such added crystals acting as a mechanical filter aid.

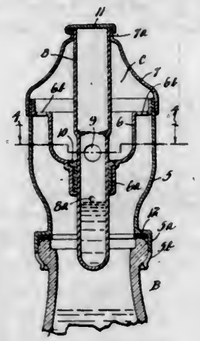
1,687,704. WINDING MACHINE. JOHAN A. ANDERSON, Cranston, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 14, 1926. Serial No. 81,280. 16 Claims. (Cl. 33—136.)



1. In a winding machine, the combination with the rotating winding-spindle and means for traversing the yarn or other material on the spindle, of manually-operable means for starting the operation of the winding-spindle and traversing-means, a measuring-device associated with the winding machine and adapted to be operated by the draft of the strand feeding to the winding-spindle, means operated from the measuring-device to arrest the operation of the winding-spindle and traversing-means when a predetermined length of material has been wound, and means operated from the manually-controlled starting-means of the winding machine to release the measuring-device to adapt it to continue its operation when the winding machine is started to operate.

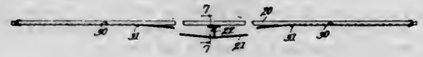
1,687,705. DISPENSING DEVICE. LAMBRO ANDROFF, Minneapolis, Minn. Filed Jan. 9, 1928. Serial No. 245,356. 6 Claims. (Cl. 221—98.)

1. A dispensing device comprising a receptacle, a charging chamber disposed adjacent the upper end of said receptacle and having communication with said receptacle when the latter is tilted or inverted, a dispensing well having an outlet passage adjacent the upper end thereof, means for causing said well to communicate with said charging chamber when said receptacle is disposed top upwards and



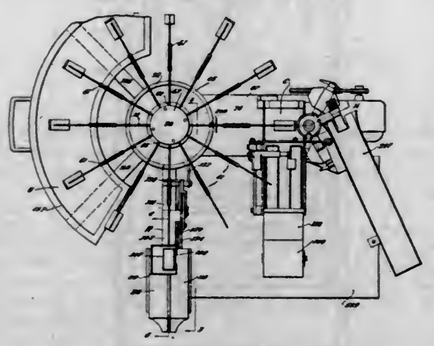
means for shutting off communication between said charging chamber and said well when said receptacle is tilted or inverted.

1,687,706. REENFORCED SCAFFOLD PLANK. MARTIN BAUER, Cleveland, Ohio. Filed May 11, 1927. Serial No. 190,455. 6 Claims. (Cl. 304—38.)



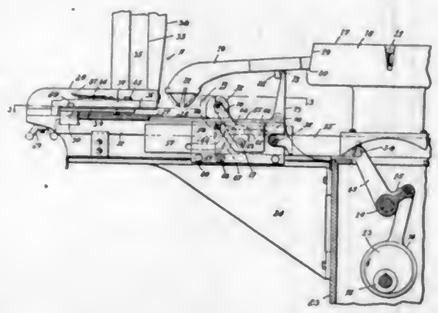
1. In combination with a scaffold plank, a cable element extending throughout the length of the plank at its under-side, a binding plate at each end of the plank, means for anchoring the ends of the cable on said plates, means to space an intermediate portion of the cable from the plank, and means to displace one of said plates longitudinally of the plank to tension said cable.

1,687,707. CONFECTION-MAKING MACHINE. FRED L. BORCHERT, Rockford, Ill. Filed Nov. 10, 1923. Serial No. 673,905. 29 Claims. (Cl. 91—14.)



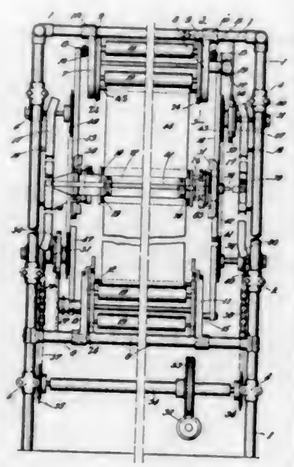
1. The combination in a processing machine of means for sizing the material to be processed by slicing from a strip, means for engaging the individual sized units and carrying them in suspended spaced relationship with each other, means for coating the units by immersion, means for carrying same for a space of time after immersion, and means for removing same from the suspending and carrying means and depositing same, all for the purpose as specified and described.

1,687,708. CUTTING AND FEEDING MECHANISM FOR CONFECTION-BAR-MAKING MACHINES. FRED L. BORCHERT, Rockford, Ill. Original application filed Nov. 10, 1923, Serial No. 673,905. Divided and this application filed June 13, 1927. Serial No. 198,617. 25 Claims. (Cl. 107—21.)



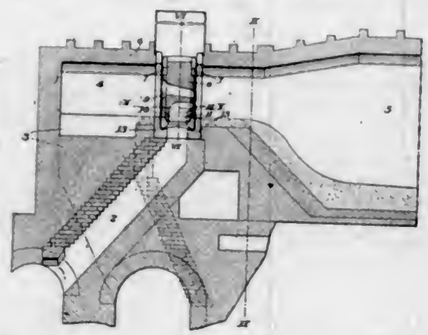
10. Mechanism of the character described for cutting bars in succession from a brick, means for feeding the cut-off bars in succession to a given station, and means for removing each bar from said station including fingers arranged to impale the bar to carry the same, and means for operating the cutting means and the bar feeding means in such timed relation that the bars are cut off one by one and immediately after the cutting operation and previous to the next cutting operation are impaled for removal.

1,687,709. PICTURE-DISPLAYING APPARATUS. ERNEST DIDCOTE, Woking, England, assignor to Advertising Machines Limited, London, England. Filed Dec. 23, 1924, Serial No. 757,599, and in Great Britain Jan. 8, 1924. 10 Claims. (Cl. 40—84.)



1. Picture display apparatus comprising stationary drums, curtain rollers mounted in annular grooves therein, removable sections in said drums, means operating intermittently, serving to bring the rollers in succession into the removable drum sections, and means for traversing said drum sections and the rollers therein back and forth across the apparatus.

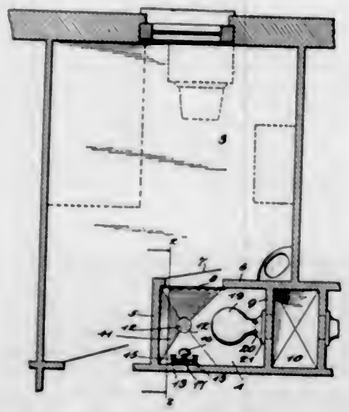
1,687,710. REVERSING FURNACE AND METHOD OF OPERATING THE SAME. WALTER DE FRIES, Wilkinsburg, Pa., assignor to Blaw-Knox Company, Hoboken, Pa., a Corporation of Pennsylvania. Filed Dec. 1, 1920. Serial No. 427,520. 20 Claims. (Cl. 263—15.)



13. A reversing furnace having a combined inlet and outlet port, and a member movable at will across said port, said member having a plurality of air and gas ports therein, substantially as described.

15. The method of operating reversing furnaces, which comprises placing a mixing device in the path of incoming elements of combustion to break up the same into a series of small streams, removing said mixing device, and reversing the furnace, substantially as described.

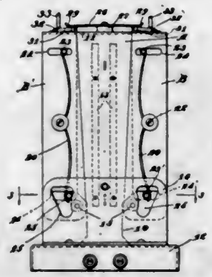
1,687,711. BATHING COMPARTMENT. ELDRIDGE R. BOYLE, Washington, D. C. Filed Mar. 26, 1923. Serial No. 627,824. 8 Claims. (Cl. 4—146.)



1. In a compartment, an apparatus therein delivering a bath shower over a portion of the area of the compartment, and a water closet fixture in the compartment having a flanged water-proof cover adapted to be used as a bather's seat.

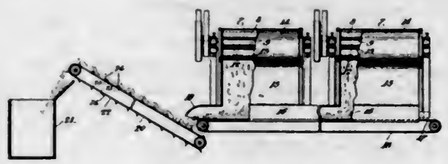
1,687,712. TOASTER. DANIEL L. CHANDLER, Boston, Mass., assignor to Champ Electrical Company, Boston, Mass., a Corporation of Massachusetts. Filed May 27, 1927. Serial No. 194,795. 14 Claims. (Cl. 53—5.)

14. A toasting apparatus having a holder for a slice of bread to be toasted, said holder having a spring seat for the bread which is bodily yieldable for the entire slice, said spring having independently yieldable portions whereby one portion of the spring seat may yield in



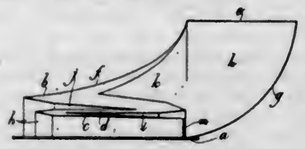
greater degree than another portion to accommodate a slice in which one edge is thicker than the opposite edge.

1,687,713. COTTON-CONVEYING APPARATUS. CHARLES E. COLDWELL, Phoenix, Ariz. Filed Feb. 23, 1927. Serial No. 170,381. 4 Claims. (Cl. 19—39.)



1. The combination with ginning apparatus, of a conveyor alongside the same, means for delivering the cotton from the ginning apparatus to the conveyor, and an elevator conveyor that receives the cotton from the first conveyor, said elevator conveyor having fan blades that move beneath and past the discharge end of the first conveyor.

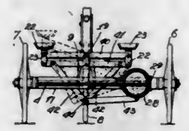
1,687,714. SOUND-AMPLIFYING HORN FOR GRAMOPHONES, LOUD SPEAKERS, AND OTHER LIKE SOUND-REPRODUCING APPARATUS. HENRY JOHN CULLUM, London, England. Filed Nov. 17, 1926, Serial No. 148,932, and in Great Britain May 31, 1926. 5 Claims. (Cl. 181—27.)



1. A sound amplifying horn constructed on uninterrupted side walls and edge walls, said edge walls being of gradually increased height from the entrant end of the horn, and division walls of gradually increased height projecting inwardly from opposite edge walls successively from the entrant to the exit end of the horn, the division walls being secured throughout their lengths to the side walls.

1,687,715. FOOT-POWER VEHICLE. CONRAD DAHL, Chicago, Ill., assignor, by mesne assignments, of one-half to said Conrad Dahl and one-half to Earl G. S. Tracy, Cokato, Minn. Filed July 12, 1926. Serial No. 121,703. 11 Claims. (Cl. 208—34.)

1. In a vehicle propelled by rider weight, a rocking lever fulcrumed between its ends, a pair of weight carrying platforms pivotally connected to the lever at opposite sides of its fulcrum respectively, guiding means for keeping each of said platforms substantially parallel to its



initial position throughout the rocking movement of the lever and means for converting said rocking movement into vehicle travel.

1,687,716. PAPER CUP. RAWSON P. DICKERSON, East Orange, N. J. Filed Oct. 2, 1924. Serial No. 741,106. 3 Claims. (Cl. 229—1.5.)



1. A one-piece cup comprising a paper receptacle of an open circular mouth with beaded rim and a downwardly-tapered, rounded body, whose shape is maintained by said beading, and having a wedge-shaped bottom.

1,687,717. SURGICAL APPLIANCE. KEILI EPSTEIN, Charlottenburg, Germany. Filed May 20, 1925, Serial No. 31,673, and in Germany May 21, 1924. 1 Claim. (Cl. 128—294.)

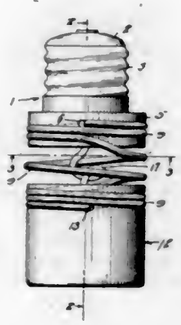


A sanitary bag of the class described comprising a cylindrical bag of substantially uniform diameter, a part-globular piece closing one end of said bag, a closure at the other end having a central opening, the wall of said bag being corrugated at right angles to its axis so as to be foldable, the depth of the corrugations being substantially the same throughout and the inner edges of said corrugations in the folded condition of said bag forming circles of larger diameter than said central opening, said end closure having the opening being provided around the opening with an adhesive.

1,687,718. ELECTRIC-LAMP SOCKET. ERWIN E. FALBE and QUAY ROHRER, Cornell, Wis. Filed June 14, 1926. Serial No. 115,922. 2 Claims. (Cl. 173—344.)

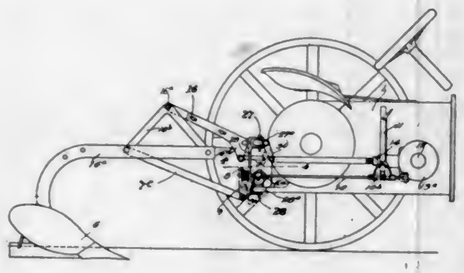
1. A shock absorbing electric lamp socket, comprising a plug, a lamp receiving socket separate from the plug, a coiled spring connecting the plug to the lamp socket and also functioning as an electrical conductor, the plug and the lamp socket each having external spirally grooved portions in which one or two turns of the coiled spring are

seated, and a relatively short insulated slack wire extending between electrical conductors in the central portion



of the plug and the central portion of the lamp socket to function as the other conductor.

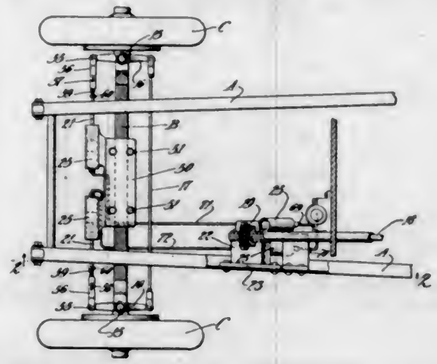
1,687,719. TRACTOR AND TRACTOR-IMPLEMENT. HARRY FERGUSON, Belfast, Ireland. Filed Feb. 25, 1925. Serial No. 11,531. 17 Claims. (Cl. 97—47.)



1. In combination, a tractor, an agricultural implement, a draft connection between said implement and said tractor, a power unit on the tractor adapted to control the working depth of the implement in the ground, and control means for the power unit connected with the implement and sensitive to variations in the draft of the implement from a predetermined normal magnitude and causing the power unit to function on the occurrence of such draft variations to correct same and consequently the variations in the working depth of the implement.

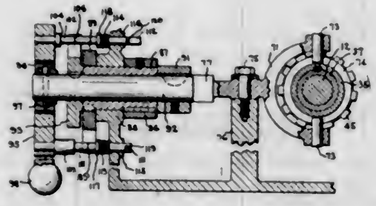
1,687,720. HYDRAULIC STEERING MECHANISM. FRANK GARNER, Chicago, Ill. Filed Jan. 31, 1927. Serial No. 164,783. 2 Claims. (Cl. 280—87.)

1. In combination with an automobile having a pair of dirigible wheels each provided with a steering arm, a tie rod connection between the two arms, two cylinder mechanisms, two slip connections extending between the cylinder mechanisms and steering arms, spring means associated with said connections for normally preventing slippage therein, the spring means in the one connection exerting a force opposite to that in the other whereby the two are balanced, and means for applying simultaneously to the two cylinder mechanisms opposite and equal forces



whereby the connections therefrom to the steering arms are actuated, substantially as described.

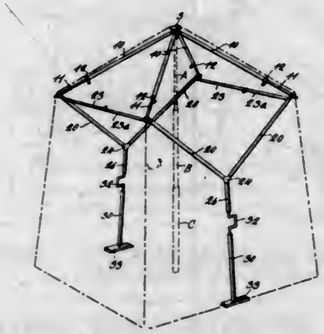
1,687,721. SPEED-CHANGING MECHANISM. FREDERICK P. GLOSH, Cincinnati, Ohio, assignor to The Triumph Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 3, 1925. Serial No. 54,375. 5 Claims. (Cl. 74—59.)



1. In speed changing mechanism, the combination of a pair of movable elements movable in opposite directions for effecting speed changes, a rock-shaft, a rock-sleeve thereabout, said rock-shaft and said rock-sleeve having operative connections with the respective elements of said pair of movable elements, a pair of operating parts for rocking said rock-shaft and said rock-sleeve, an operating lever pivoted on a pivot extending lengthwise of the axis on which said rock-shaft rocks and on a pivot extending at an angle to said axis, said lever located at one side of said operating parts, releasable connecting means between said operating lever and said respective operating parts arranged for operative connection of said lever with each of said operating parts and disconnected relation of said lever with the other of said operating parts upon swinging of said lever on said last-named axis, said operating parts provided with obstructing means with which said connecting means in disconnected relation conct during transverse pivotal movement of said lever, and locking means for said respective operating parts complemental to said respective connecting means.

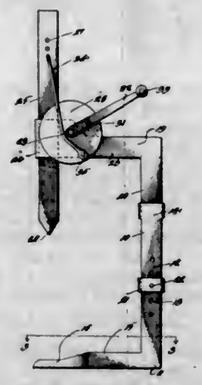
1,687,722. POLELESS TENT. LOUIS B. GOLDBERG, NATHAN GOLDBERG, WILLIAM GOLDBERG, and JACOB M. GOLDBERG, Denver, Colo. Filed Aug. 27, 1927. Serial No. 215,922. 6 Claims. (Cl. 135—4.)

2. A support for a poleless tent comprising, in combination, two Y-shaped supports arranged opposite from each other and spaced apart and supporting bars extending from the upper ends of said Y-shaped supports to a central



point and rods extending from the upper ends of each support to the corresponding end of the other.

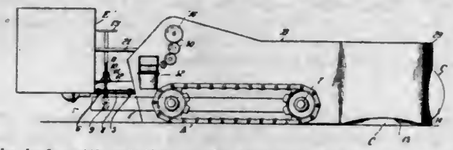
1,687,723. VALVE-SPRING COMPRESSION. IRA R. GOODSELL, Tulsa, Okla. Filed Jan. 25, 1927. Serial No. 163,365. 3 Claims. (Cl. 29—86.3.)



1. A valve spring lifting device comprising a U-shaped frame including a pair of longitudinally adjustable sections, a bifurcated bracket formed on the lower end of the frame engageable with the lower end of a valve spring, a guide member formed on the upper end of the frame formed with a vertical bore, a vertically movable lifting bar mounted in the bore of the guide member, a crank pin rotatably supported in a vertical position on the upper end of the frame, a disk body pivotally mounted on the frame, a crank arm secured to the disk and extending radially therefrom, and an offset connecting bar pivotally connected with the upper portion of the lifting bar and with the crank disk for vertical reciprocating movement of the frame with respect to the said bar.

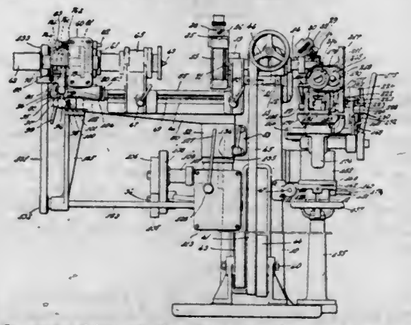
1,687,724. APPARATUS FOR CLEANING BALLAST. PERRY H. HAMILTON, Baltimore, Md., assignor to Maintenance Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed June 29, 1925. Serial No. 40,463. 24 Claims. (Cl. 262—2.)

1. A portable ballast cleaning apparatus comprising a carriage, a body pivotally mounted on the carriage, rotating cutters carried at the front end of the body for digging substantially horizontally into the ballast, means for cleaning the ballast and returning the cleaned ballast to the roadbed also carried on the body, and means for tilting



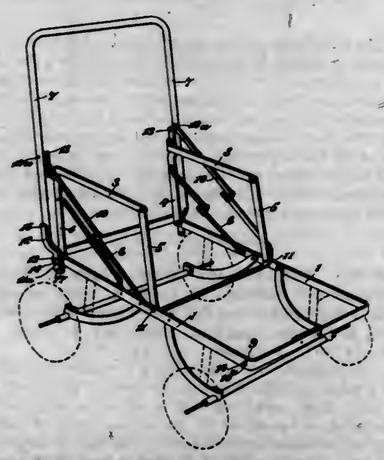
the body with relation to the supporting carriage to vary the angle of engagement of the digging means with the roadbed.

1,687,725. MACHINE FOR GRINDING FLUTED TOOLS. BENGT M. W. HANSON, deceased, Hartford, Conn., by Clarence E. Whitney and Einar A. Hanson, executors, Hartford, Conn., now, by resignation, Einar A. Hanson, sole executor. Filed Dec. 18, 1925. Serial No. 76,301. 13 Claims. (Cl. 51—95.)



1. In a machine of the character described, a frame having a bearing, a support having a stem mounted for turning and vertical movements in said bearing, a work holder on said support, a fixed post below said bearing, a screw supported for turning movement on said fixed post, means for turning said screw, a nut on said screw rotatably supporting said stem, and an index scale between said stem and bearing for indicating the angular position of adjustment of said support.

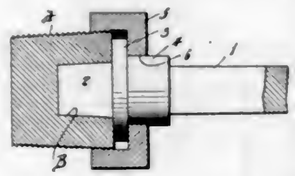
1,687,726. PERAMBULATOR AND THE LIKE. FREDERICK HAGGER HEADLEY, Northfield, near Birmingham, England. Filed May 28, 1923, Serial No. 642,000, and in Great Britain Aug. 17, 1922. 3 Claims. (Cl. 280—47.)



1. In a device of the class described embodying therein a frame, laterally extending studs on the ends of said

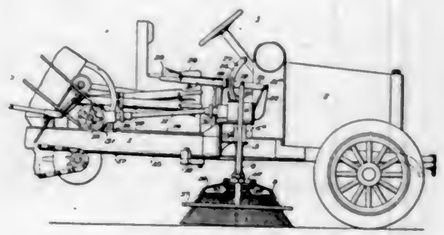
frame, a handle bar having side members with apertures in the bottom ends thereof adapted to be engaged over said studs which project beyond the same, and a lever pivoted to the end of each side member and adapted to be engaged with the projecting end of an associated stud to detachably lock said handle bar side member thereto.

1,687,727. WASHOUT-PLUG WRENCH. ARTHUR W. JUDGE, Cleveland, Ohio. Filed June 2, 1925. Serial No. 34,423. 1 Claim. (Cl. 81—53.)



A wrench for removing and replacing wash out plugs, comprising a shank rectangular in cross section and adapted for engagement by a wrench, and an end correspondingly shaped, a circular flange intermediate of said shank and end, a circular shoulder extending from said flange, and a cap nut polygonal in cross section supported by said flange and revoluble relatively to the shoulder, said cap nut being adapted to embrace and be secured to the top of a wash out plug and the end of the shank to engage in a correspondingly shaped opening in the top thereof.

1,687,728. CUTTER-BROOM ATTACHMENT FOR SWEEPING MACHINES. MOSES VOLNEY LIDDELL, Mattituck, N. Y. Filed Nov. 19, 1923. Serial No. 675,440. 13 Claims. (Cl. 15—87.)

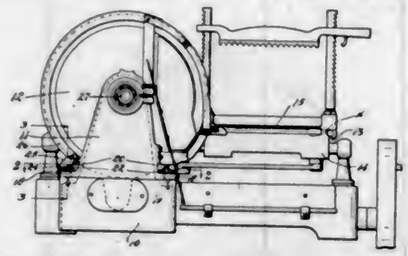


1. In a machine for sweeping surfaces adjacent to curbs, a frame, a rotary broom positioned with its axis of rotation approximately vertical but inclined in the vertical plane of travel, to limit its contact with the swept surface to a sector which in the rotation of the broom moves away from the curb, means rotating the broom and developing from said limited sector of contact an inherent feeding force in the broom which is toward the curb, and a broom-mounting connecting the broom with the frame with freedom of the broom to respond to said feeding force.

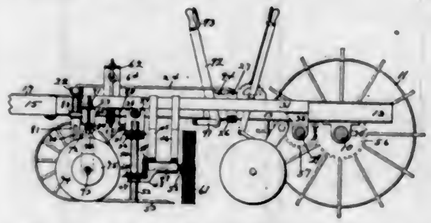
1,687,729. SLICING MACHINE. PATRICK J. LUCEY, Chicago, Ill., assignor to David A. Weir, receiver for Lucey Slicing Machine Co., South Bend, Ind., a Corporation of Indiana, bankrupt. Filed Oct. 15, 1924. Serial No. 743,671. 6 Claims. (Cl. 146—102.)

1. In a slicing machine having a rotary circular knife and a table movable one with respect to the other, means for adjustably mounting said knife with respect to said table to place the plane of the cutting edge of said knife at different angles with respect to the edge of said table.

2. In a slicing machine having a base with a circular knife and a support for said knife, a table movable past said knife, and means for adjusting and fastening said support on said base to reset said knife in a different vertical plane with respect to the table edge.

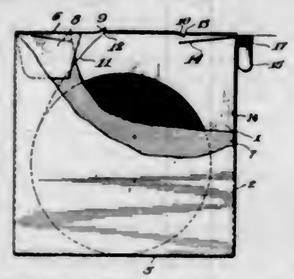


1,687,730. BEET-TOPPING MACHINE. JAMES MAZZOCCO, Gallup, N. Mex. Filed May 9, 1924. Serial No. 711,988. 5 Claims. (Cl. 55—107.)



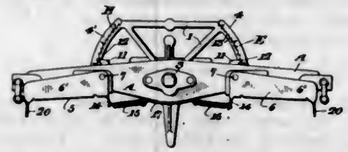
1. In a machine of the class described, a main frame, a floating frame hinged at its rear end to and yieldingly supported for actuation through a vertical arc at its forward end by said main frame, a rotary knife carried by said floating frame and operable through a substantially horizontal plane and an altitudinally adjusting device comprising a series of spaced rotary elements depending from and adjustably connected to the forward end of said floating frame and adapted to travel in advance of said knife and also adapted to comb through the tops of standing beets in a field and contact and ride on the crowns thereof, said knife extending beneath said rotary elements.

1,687,731. PACKAGE AND DISPENSER FOR GUMMED TAPE. THEODOR H. MITTENDORF, Chicago, Ill., assignor to Mid-States Gummed Paper Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 21, 1925. Serial No. 57,555. 5 Claims. (Cl. 242—55.5.)



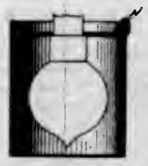
1. A gummed tape dispensing device comprising a box-like container, a flap on said container adapted to close the bottom thereof and to extend upwardly within said container and a cover flap on said container adapted to close the top thereof and extend downwardly between the container wall and said first named flap, said latter flap being provided with a plurality of apertures through which a tape may be woven.

1,678,732. RUDDER-BAR RETAINER. ROBERT E. MITTON, Salt Lake City, Utah. Filed June 26, 1926. Serial No. 118,840. 2 Claims. (Cl. 244—29.)



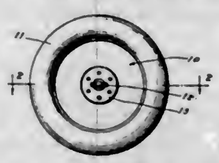
1. In a rudder bar retainer the combination of a rudder bar; a frame upon which said rudder bar is supported having an extended spider shaped framework formed thereon, on the outer and upper edge of which is provided an inwardly toothed rack segment on each side of the frame; bell crank foot operated levers pivoted on said rudder bar having dogs formed in the lower and inner side thereof adapted to engage with the toothed racks on said supporting frame; an extension on the back side of said levers to which one end of a spring is secured; and springs engaged with said extensions and with said rudder bar to normally hold said dogs in said toothed racks substantially as described.

1,687,733. LAMP SHADE. PASCAL B. MOORE, New York, N. Y. Filed Mar. 8, 1926. Serial No. 93,138. 1 Claim. (Cl. 240—108.)



A lamp shade including a foldable side wall, a cap fixedly secured to said side wall and about which said side wall is adapted to be folded, means adjacent the ends of said side wall for holding the ends thereof together when said wall is folded, and a plurality of bendable tongues on said cap engageable with said side wall when said wall is folded about said cap.

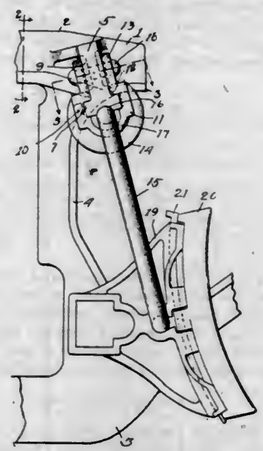
1,687,734. THEFT-PREVENTING DEVICE. JAMES F. RALEIGH, Chicago, Ill., assignor to Pines Winterfront Company, Chicago, Ill., a Corporation of Delaware. Original application filed Jan. 9, 1925, Serial No. 1,444. Divided and this application filed Apr. 27, 1927. Serial No. 186,932. 4 Claims. (Cl. 70—90.)



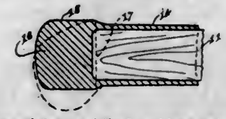
1. In a spare wheel carrier, the combination of a mounting bracket, means for securing a spare wheel on said mounting bracket, a resilient shield for covering said securing means, and means for locking said shield and wheel including a member passing through said wheel and shield, and a locking device carried by said member and flexing said shield against said wheel.

1,687,735. SIDE FRAME. WILLARD F. RICHARDS, Depew, N. Y. Filed Aug. 2, 1926. Serial No. 126,703. 14 Claims. (Cl. 118—209.)

1. In combination, a truck side frame formed with a brake hanger lug extending from a side thereof, said lug having a web provided with a flange at the lower edge thereof, and a brake hanger connector formed with a pocket shaped to slip over the free end of the lug and support the upper end of brake head supporting means therebeneath.

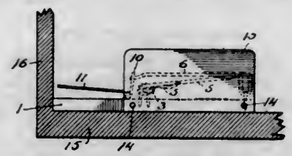


1,687,736. HOCKEY-STICK-END BUFFER. WILLIAM ELMER ROOT, Palmerston, Ontario, Canada. Filed July 7, 1927. Serial No. 204,058. 1 Claim. (Cl. 273—67.)



A buffer comprising a blind rubber tube adapted to be mounted on a stick and extending into a solid rubber cushion projecting beyond the hand and formed of a waggly knob rectangular in cross section.

1,687,737. ANIMAL TRAP. ANSEL E. RUDEEN, Axtel, Kans. Filed Jan. 12, 1927. Serial No. 160,623. 1 Claim. (Cl. 43—81.)

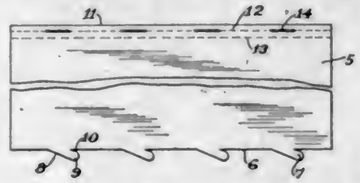


In an animal trap, the combination with a base, animal killing means mounted thereon including a controlling tread member adapted to be moved by an animal from a set to a released position and disposed wholly above said base and spaced from but adjacent to one end of said base, of two guard members fastened respectively to opposite side edges of and extending above said base and spaced from said end of said base, said tread member extending beyond said guard members toward said end of said base, and all of said killing means, excepting said tread member, when in the set position, being disposed wholly between said guard members and below the upper edges thereof.

1,687,738. INTERLOCKING STOVEPIPE BLANK. EDDIE O. SIMPSON, Tarrant, Ala., assignor of one-half to Felix I. Tarrant, Birmingham, Ala. Filed Jan. 28, 1927. Serial No. 164,168. 1 Claim. (Cl. 126—309.)

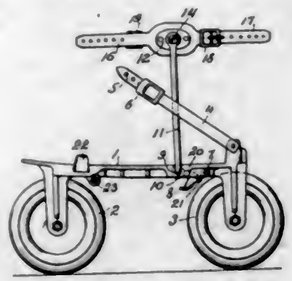
A sheet-metal pipe blank having projecting from one of its side edges a series of spaced tongues, and being

scored near its other side edge along a line parallel with said edge, and a series of slots in the line of said score, adapted to receive said tongues, and spaced in conformity with the spacing thereof, the said tongues being sharply inclined relative to the side edge from which they project, the space at the intersection of the shorter side



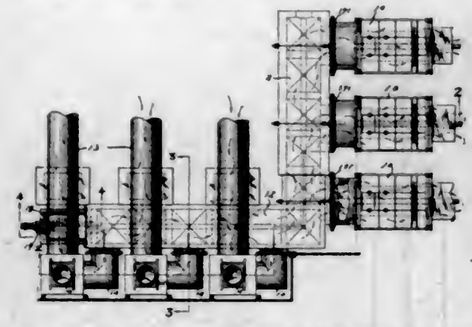
of each tongue with the side edge being sharply angular, and for a substantial length thereof of less width than the thickness of the blank whereby to provide a gripping action on the blank edge engaged thereby, the side of each tongue opposite to said shorter side closely engaging the adjacent slot edge when in operative position.

1,687,739. ROLLER SKATE. WALTER A. SLUSHER, Kansas City, Mo. Filed Mar. 19, 1927. Serial No. 176,701. 6 Claims. (Cl. 208—173.)



1. In a roller skate, a foot rest, a rotary carrying wheel under and supporting said foot rest, a braking device pivoted to said foot rest so as to swing into and out of braking engagement with the tread of said wheel, an operating member having means for attachment to the leg, and means engaged by said member adapted to engage and force said braking device to the braking position.

1,687,740. WASTE-HEAT BOILER SYSTEM. HERMAN B. SMITH, Plainfield, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Feb. 9, 1922. Serial No. 535,223. 1 Claim. (Cl. 122—7.)



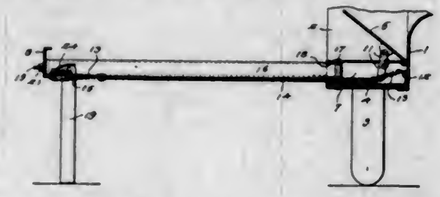
In a system for utilizing the waste heat from industrial furnaces, a steam boiler, a separately-fired furnace adapted to burn finely divided fuel, a long flue connecting said furnace to said boiler and a plurality of industrial furnaces, each connected to said flue with the points of connection spaced along the flue, whereby the hot waste gases from all of the industrial furnaces are delivered to the flue between its connection to said boiler and its connection to said separately-fired furnace.

1,687,741. TOILET-PAPER FIXTURE. WILLARD E. SWIFT, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed Dec. 24, 1923. Serial No. 682,431. 1 Claim. (Cl. 242—55.2.)



In combination, a toilet paper fixture comprising a pivotally mounted package carrier provided along one edge with a pair of wedge shaped projections of different length located on opposite sides of the pivotal axis of the carrier, said carrier projections being adapted to enter notches of different depths, provided at one end of a toilet paper package, having a designated front face, the correct registration of said projections with said notches being adapted to insure the positioning of a package on said carrier with the front face presented to the user.

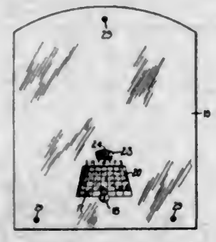
1,687,742. AUTOMOBILE BED. WILLIS L. THATCHER, Sacramento, Calif. Filed July 15, 1926. Serial No. 122,682. 1 Claim. (Cl. 5—119.)



In a bed attachment for automobiles, a running board of compartment construction, a pair of end bars, each hinged at one end to an end wall of the compartment, a supporting leg hinged to the free end of each end bar, a removable channel bar at the outer side of the compartment adapted to connect the outer ends of the end bars when extended and set up and to close the outer side of the compartment when the bed is folded, a flexible bed bottom extending between the rear wall of the compartment and the channel bar, detachable strap connections between the outer edge of the flexible bed bottom and the channel bar, a step cover for the running board compartment and link connections between the cover and walls of the compartment to hold the cover in an inclined open position, the said channel bar having flanges which embrace the step cover and bottom of the compartment when the compartment is closed.

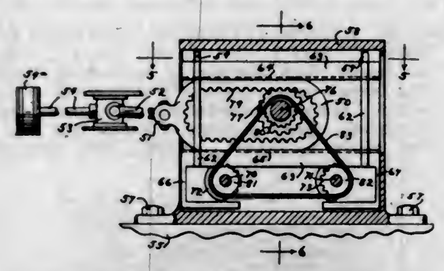
1,687,743. CALENDAR STRUCTURE. GALEN TILDEN, Ames, Iowa. Filed June 5, 1926. Serial No. 114,016. 2 Claims. (Cl. 40—113.)

1. In a device of the class described, a support, a pair of sight openings therein, a movable member having sets of characters thereon for being selectively exposed through one of said sight openings, a sight opening in said member for each set of characters, each one being positioned relative to its corresponding set of characters whereby it will be in alignment with the other sight opening in said support when its corresponding set of characters is ex-



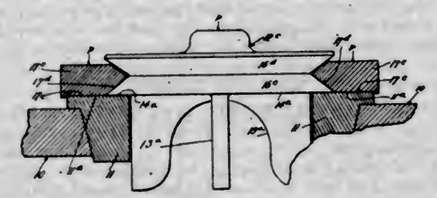
posed through the first sight opening and a second movable member having sets of indicating characters adapted to be selectively exposed through the aligned sight openings in said support independent of the first movable member.

1,687,744. RECIPROCATING ENGINE. FRED MAURICE WEBB, Fresno, Calif. Filed Dec. 23, 1925. Serial No. 77,190. 3 Claims. (Cl. 74—14.)



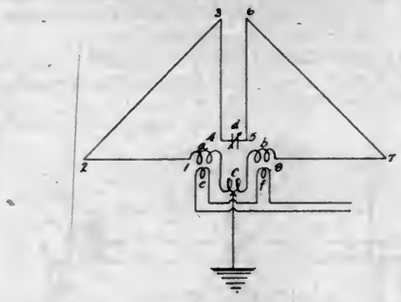
1. The combination with a reciprocating engine, of an elongated endless rack secured to the engine piston, a pinion on the power shaft in engagement with said rack, a stationary frame, a movable frame mounted in said stationary frame to move vertically, guideways carried by said movable frame for supporting said rack, said rack being slidable in said frame, a shaft mounted in said stationary frame at each end thereof beneath said movable frame, a cam mounted on each of said shafts adapted to bear against the underside of said movable frame to raise and lower the same, and operative connections between said last shafts and said power shaft adapted to rotate the same synchronously.

1,687,745. PUMP VALVE. WILLIAM WEBSTER WILSON, Los Angeles, GROVER C. DEAKINS, Anaheim, and ROBERT R. SHULL, Long Beach, Calif. Filed Aug. 18, 1925. Serial No. 50,910. 8 Claims. (Cl. 277—44.)



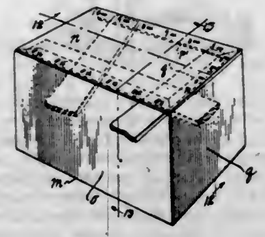
1. In a valve, a relatively stationary part including a seat member, a valve body adapted to seat on the stationary part and having an annular recess with a conical wall, a sealing member loosely carried in the recess and free to move bodily with relation to the body in the direction of movement of the body to and from the stationary part, said sealing member having a conical face adapted to seat on said conical wall of the recess and the sealing member also being adapted to seat on the stationary part.

1,687,746. DIRECTIONAL AERIAL. GEORGE MAURICE WRIGHT, London, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Apr. 19, 1921, Serial No. 462,625, and in Great Britain July 18, 1918. 6 Claims. (Cl. 250—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



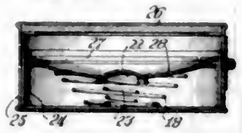
2. The combination of a loop aerial in a vertical plane, an adjustable condenser located near the base of the loop, symmetrical leads connecting said condenser in series with the upper conductor of the loop, and a coil in the lower conductor having an intermediate point connected to ground.

1,687,747. METHOD OF SEALING SHIPPING CASES. HERBERT R. BLISS, Niagara Falls, N. Y., assignor to H. R. Bliss Company, Inc., Niagara Falls, N. Y., a Corporation of New York. Original application filed Jan. 9, 1924, Serial No. 685,097, and in Canada Sept. 22, 1924. Divided and this application filed Jan. 10, 1927. Serial No. 160,089. 7 Claims. (Cl. 93—42.)



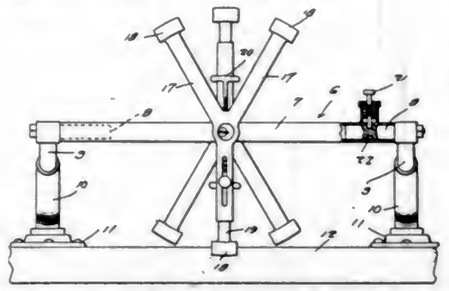
1. The method of sealing a fibre board shipping case which has two opposite walls provided with sealing flaps, and two other opposite walls, one of which is provided with a relatively narrow cover flap, and the other of which is provided with a cover wing for covering substantially the entire case, which method comprises placing a blade anvil under the cover wing and cover flap, driving stitches through the wing and the flap to secure them together, placing the anvil under the cover wing and one of the sealing flaps, driving stitches into them to secure them together, placing the anvil under the cover wing and the other sealing flap and then driving stitches into them to complete the sealing of the case.

1,687,748. RECEPTACLE FOR FACE POWDER AND THE LIKE. PHILIP C. P. BOOTY, Chicago, Ill., assignor to Michael T. Daley, Chicago, Ill. Filed Oct. 13, 1926, Serial No. 141,288, and in Canada Jan. 27, 1926. 9 Claims. (Cl. 132—83.)



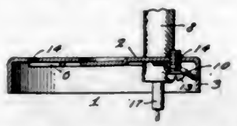
1. A receptacle for face powder and the like, comprising in combination a casing having an opening in its top face, an outwardly convex closure plate within the casing fitted to said opening, and yielding means for pressing said closure plate upwardly into position for closing said opening.

1,687,749. AUTOMOBILE TIRE CARRIER. DONALD BORROR, Garnett, Kans. Filed July 30, 1927. Serial No. 209,626. 1 Claim. (Cl. 224—29.)



In a tire carrier structure of the class described, a pair of attachment and supporting tubes, rods slidably mounted in said tubes, journals carried by the outer ends of said rods, a tubular shaft mounted for rotation between said rods and upon said journals, and a plurality of individual tire carriers carried by said shaft.

1,687,750. CONDUIT CLAMP. JOHN C. BOYTON, Cleveland, Ohio. Filed Nov. 21, 1923. Serial No. 675,991. 3 Claims. (Cl. 247—25.)

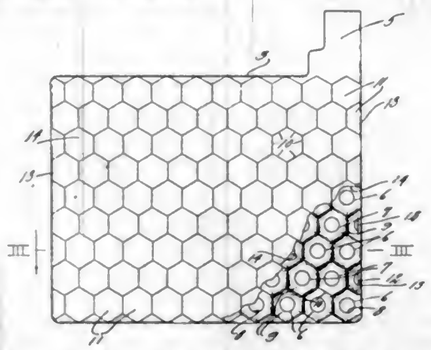


1. In a device of the character set forth, the combination of a receptacle having a wall provided with an opening through which a conduit is adapted to be extended, and a second wall disposed at substantially right angles to the first wall, a rigid clamping member arranged obliquely within the angle between, and with its opposed edges engaging, said walls, and means for advancing the member toward the first wall thereby to cause it by sliding contact with the second wall to be slid along the former wall and into clamping engagement with the conduit.

1,687,751. DYEING COMPOSITION. ALBERT DAVID, New York, N. Y., assignor, by mesne assignments, to Dip-It Inc., New York, N. Y., a Corporation of New York. Filed Mar. 25, 1922. Serial No. 546,800. 12 Claims. (Cl. 8—6.)

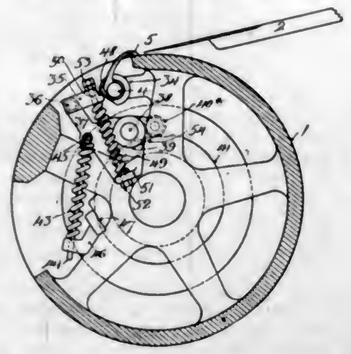
1. A dyeing composition in fluent form comprising, in combination, a neutral saponaceous body, a liquid carrier, a dye, and a hygroscopic substance in sufficient quantity to substantially prevent caking of the mixture on exposure to the air, said dye being partly in solution and in excess of the quantity held in true solution.

1,687,752. BATTERY PLATE. ROBERT L. ELLERY, Toledo, Ohio. Filed Nov. 1, 1926. Serial No. 145,460. 2 Claims. (Cl. 136—48.)



1. An electric battery plate embodying a grid having hexagonal pockets peripherally abutting, the grid portion as bounding the pockets having in cross section adjacent side portions approaching each other at an acute angle to form a fin in the plane of the plate, with the hexagonal portion of the pocket approximating the plane of an outer face of the grid.

1,687,753. GRIPPER-TENSIONING MECHANISM FOR PRESSES. FRED S. ENGLISH and THOMAS L. PERRY, New London, Conn., assignors to The Babcock Printing Press Manufacturing Company, a Corporation of Connecticut. Original application filed May 6, 1925, Serial No. 28,355. Divided and this application filed Sept. 2, 1926. Serial No. 133,214. 5 Claims. (Cl. 101—409.)

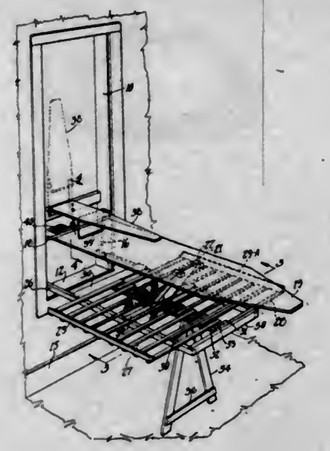


1. In a press the combination of a cylinder adapted to carry a sheet, grippers thereon for engaging and holding the sheet to move with the cylinder, said grippers being mounted on a shaft having means adapted to be engaged by a latch, a latch arranged to operate thereon to press the grippers upon the sheet, and means for automatically causing said latch to act on said grippers to press the sheet while in the initial gripping position and for automatically releasing said latch before the opening of said grippers.

1,687,754. IRONING BOARD. JOHN N. FARIS, Portland, Oreg. Filed Feb. 25, 1925. Serial No. 11,441. 2 Claims. (Cl. 68—10.)

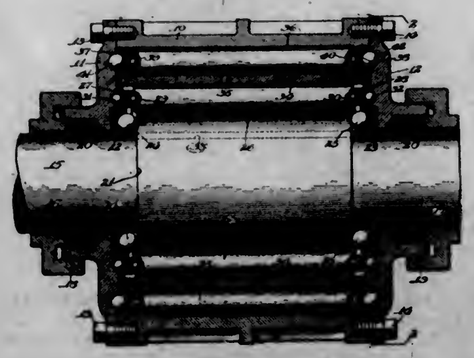
1. An ironing table having, in combination, a cabinet adapted to be built into a wall, a frame hinged within the lower portion of the cabinet adapted to be swung from a vertical to a horizontal position, the sides of said cabinet having upright slots formed therein, an ironing board mounted above said frame having laterally projecting pins

at its inner end projecting into said slots, a support for the outer end of said ironing board hinged at opposite ends to said ironing board and to said frame, and a pair



of side extendible trays mounted on said frame adapted to be projected beyond the lateral edges of said ironing board, said frame, trays and ironing board being foldable within said cabinet.

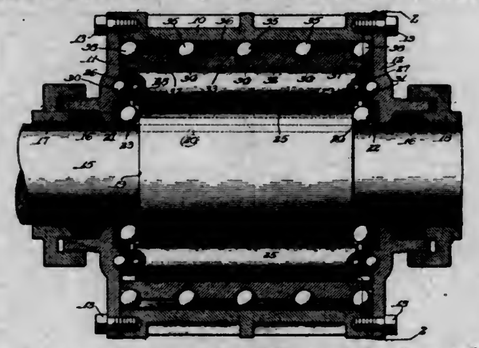
1,687,755. ROLLER BEARING. JOHN W. FOLEY, Chicago, Ill. Filed Mar. 14, 1927. Serial No. 175,030. 9 Claims. (Cl. 308—183.)



1. A roller bearing embodying a casing, a shaft extending thereinto, a bearing surface carried by the shaft within said casing, a sleeve within the casing encompassing the said surface out of contact therewith and with the casing, rollers between the said sleeve and said surface and contacting with both, rollers between the periphery of the said sleeve and the wall of the casing and contacting with both, and ball bearings between the ends of the first recited rollers and the adjacent walls of the casing and with which ball bearings the respective rollers have direct engagement.

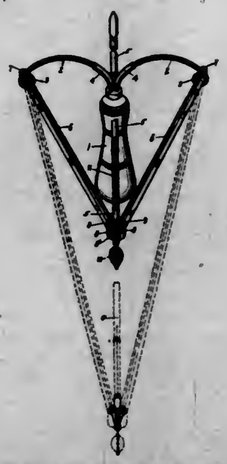
1,687,756. ROLLER BEARING. JOHN W. FOLEY, Chicago, Ill. Filed Mar. 14, 1927. Serial No. 175,031. 5 Claims. (Cl. 308—183.)

1. A roller bearing embodying a casing, a shaft projecting thereinto, a bearing surface carried by the shaft within the casing, rollers encompassing said surface and having a rolling contact therewith, a freely rotatable sleeve encompassing said rollers and with the inner face of which sleeves said rollers have a rolling contact, and a plurality of series



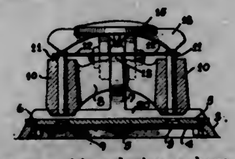
of balls extending circumferentially about the sleeve and having rolling contact with the outer periphery of the sleeve and the casing wall.

1,687,757. CATAPULT. BYRON G. FRY, Glendale, Calif., assignor of one-half to E. R. Williams, Glendale, Calif. Filed Sept. 13, 1926. Serial No. 135,163. 5 Claims. (Cl. 124—2.)



1. A catapult for shooting arrows including in combination a handle with two arms extending laterally therefrom and forming an arrow-supporting fork therebetween, two elastic elements connected to the outer ends of said arms, a hand piece connected to the opposite ends of said elastic elements, said hand piece having a special socket to receive the end of an arrow and a knob rearwardly of said pocket to be gripped between the thumb and finger in shooting an arrow, said arrow receiving socket being formed of parts adapted to close upon said arrow as said hand piece is pulled.

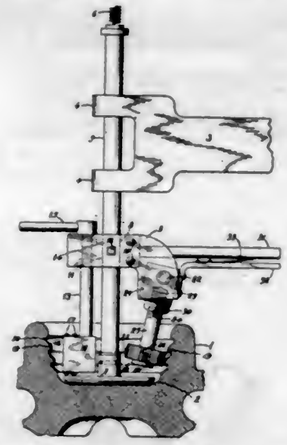
1,687,758. PAPER PUNCH. ADO GLAESER, Woodhaven, N. Y. Filed July 31, 1925. Serial No. 47,184. 15 Claims. (Cl. 164—91.)



1. In a paper punching device, a base, a die plate assembled therewith, a plurality of punches adapted to co-

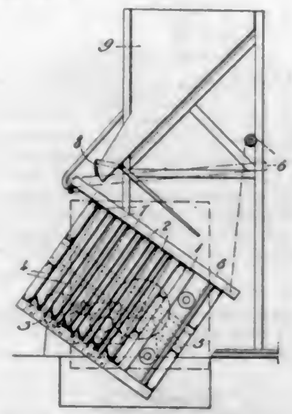
operate with said die plate to punch holes in paper, a standard associated with said base, said standard being constructed to guide said punches, and a single member for supporting said punches and for returning said punches to normal position after operation.

1,687,759. INSULATOR-KNURLING DEVICE. MINOR F. H. GOUVERNEUR, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Aug. 18, 1927. Serial No. 213,857. 11 Claims. (Cl. 25—3.)



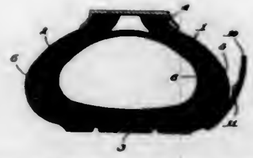
1. In a machine for working upon an insulator unit having a recess therein, the combination of means disposable within the recess and operable to cut alternating ridges and grooves in the wall thereof when the insulator is rotated, and means adjacent said means for knurling certain of the ridges.

1,687,760. METHOD AND APPARATUS FOR HANDLING BITUMINOUS MATERIALS. JOHAN GUSTAF GRÖNDAL, Djursholm, Sweden. Filed Nov. 5, 1925, Serial No. 67,006, and in Sweden Apr. 6, 1925. 7 Claims. (Cl. 214—41.)



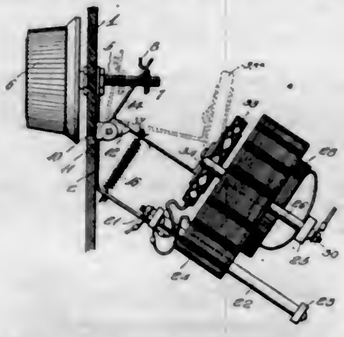
1. Method of handling bituminous materials in connection with the dry distillation thereof, comprising feeding the material from a container to form a series of separate inclined layers spaced from each other, swinging the series of layers to substantially horizontal position, transporting the so spaced and superposed layers, and finally tilting and discharging such layers of material after treatment.

1,687,761. WARNING SIGNAL FOR PNEUMATIC TIRES. WALDO F. HAHN, Tampa, Fla. Filed Aug. 15, 1927. Serial No. 213,029. 5 Claims. (Cl. 116—34.)



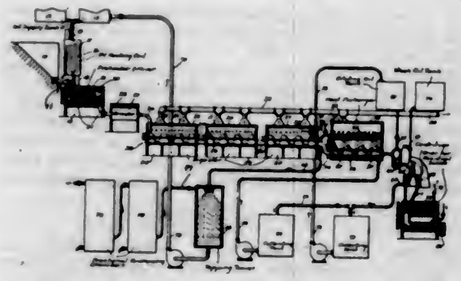
3. The combination with a pneumatic tire; the outer face of said tire being colored for a portion thereof, means normally covering said colored portion and operable by the bending of the tire wall to disclose the color beneath it when the pressure in the tire falls below a predetermined point.

1,687,762. MICROCOUPLER. FREDERICK P. HALL, Newark, N. J., assignor to Simplex Radio Devices, Inc., New York, N. Y., a Corporation of New Jersey. Filed June 16, 1926. Serial No. 116,497. 9 Claims. (Cl. 171—119.)



1. Tuning apparatus comprising in combination a bracket member, a pair of longitudinally extending rod members supported by said bracket member, an inductance coil adjustably positioned on said rod members, means adjustably carried by said inductance coil for supporting a cooperating inductance coil in spacial relation thereto and a separate inductance adjustably carried by said bracket member for movement with respect to said first mentioned inductance coils.

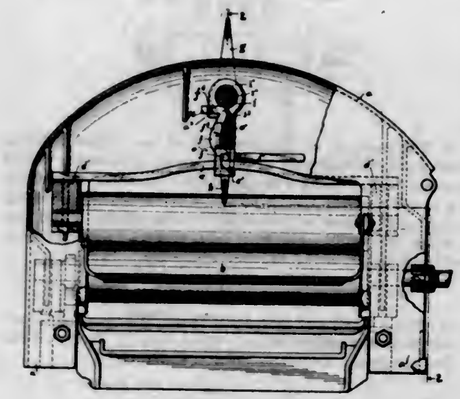
1,687,763. PROCESS OF AND APPARATUS FOR TREATING SHALE AND THE LIKE. WILLIAM HUNTLEY HAMPTON, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,016. 3 Claims. (Cl. 196—80.)



1. The process of obtaining valuable products from shale like bituminiferous solids which comprises digesting such a shale-like bituminiferous solid in finely divided condition with a heavy mineral oil at temperatures between 500° and 700° F., mixing steam with the evolved vapors and subjecting the mixture to cracking treatment at higher temperatures, fractionally condensing the products of cracking, diluting the residual digestion mixture with a lighter oil, separating solid matter from the diluted mixture, treating the residual oil to obtain a heavy fraction therefrom, and utilizing such heavy fraction and a heavy fraction obtained from the aforesaid cracking products for digestion of a further portion of shale or other bituminiferous solid.

3. Apparatus of the character described comprising the combination with a digestion chamber, of a heat exchanger, conduit means arranged to conduct unvaporized material from said digestion chamber to said heat exchanger, means for separating solids from liquids, conduit means arranged to conduct cooled material from said heat exchanger to such separating means, means for conducting separated liquid from such separating means to said heat exchanger, fractionating means, and means for conducting said separated liquid from the heat exchanger to said fractionating means.

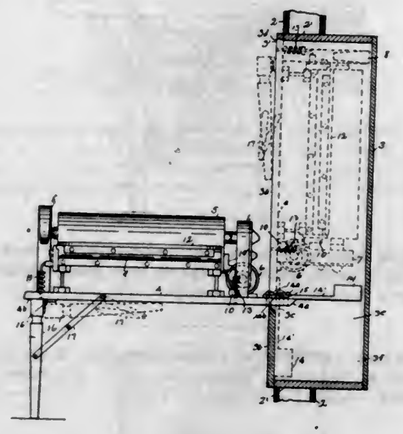
1,687,764. CLOTHES-WRINGER MECHANISM. GEORGE L. HEDGES, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 18, 1923, Serial No. 669,264, and in Canada Aug. 31, 1923. 7 Claims. (Cl. 68—32.)



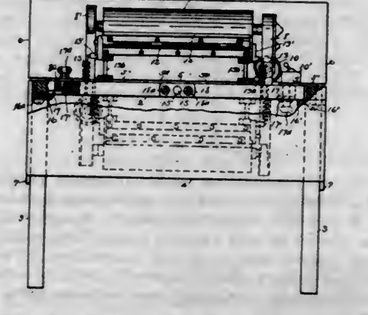
1. The combination with an element adapted to be placed under tension, of a tensioning spring operatively associated with said element, an overweighted pressure transmitting member pivotally mounted to coact with said spring, a detent for said member positioned to limit the pivotal motion of the pivoted member to position the same in pressure exerting position, and a rotatable cam acting on said pressure transmitting member and having a releasing position and a plurality of actuating positions, for relieving the pressure on said spring by the pressure transmitting member, and subjecting the spring to pressure.

1,687,765. WALL CABINET FOR IRONING MACHINES. MEAD HEDGLON, Syracuse, N. Y. Filed Apr. 30, 1927. Serial No. 188,015. 1 Claim. (Cl. 45—51.)

An ironing machine cabinet including a vertically disposed box formed for securement to a wall or the like and having an open front, a vertical member extending upwardly from the bottom of the box at the front thereof and terminating a short distance above the box bottom, a base member formed to close said open front and adapted to have an ironing machine secured thereto, a counterweight having a web projecting forwardly therefrom, bearings on the web, means to secure the front end of the web to the rear end of the base member, and a rod journaled in the bearings and having its ends supported by the side walls of the box, said vertical member in horizontal position of the base member being disposed intermediate the ends of the latter whereby the underface of the base member will seat on the upper end of the vertical member.



1,687,766. TABLE FOR IRONING MACHINES. MEAD HEDGLON, Syracuse, N. Y. Filed June 27, 1927. Serial No. 201,941. 6 Claims. (Cl. 312—22.)

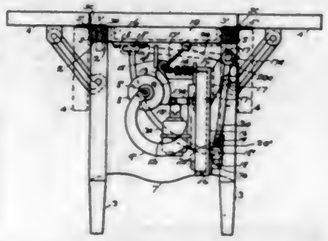


1. A table for supporting an ironing machine comprising a normally open horizontal frame, plates mounted beneath the opposite margins of the frame to form ledges that shorten one dimension of the sheer opening of the frame, a base adapted to have an ironing machine secured thereto disposed in the said opening, one end of the base adapted to rest upon one of said ledges, the other end of the base terminating short of the other ledge, means for pivotally mounting the base in the opening of the frame for enabling the base to be rotated in a vertical plane in the direction of the said dimension, and a latch carried by the shorter end portion of the base adapted to seat upon the upper face of the said other ledge thereby to prevent accidental tilting and inverting of the machine during the ironing periods.

1,687,767. FOLDING TABLE FOR IRONING MACHINES. MEAD HEDGLON, Syracuse, N. Y. Filed June 27, 1927. Serial No. 201,942. 7 Claims. (Cl. 312—27.)

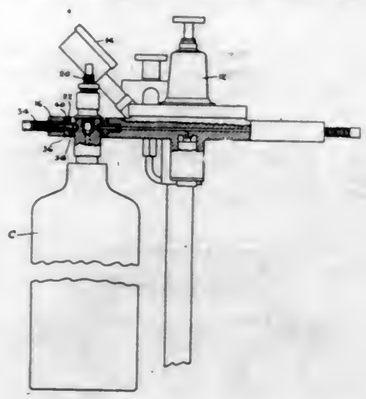
5. In an ironing machine table, a frame having an opening, an ironing machine carrying member receivable in the opening, means to support the member from the

frame for swinging movements, a shaft, means to slidably mount the shaft on the member, and means carried by the frame to engage the shaft in one position thereof so as



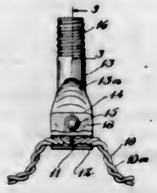
to hold same and thereby the member against swinging and in a second position of the shaft to permit same and thereby the member to be swung.

1,687,768. CLAMP FOR ANÆSTHETIZING MACHINES. JAY A. HEIDBRINK, Minneapolis, Minn. Filed Mar. 11, 1927. Serial No. 174,471. 6 Claims. (Cl. 285—108.)



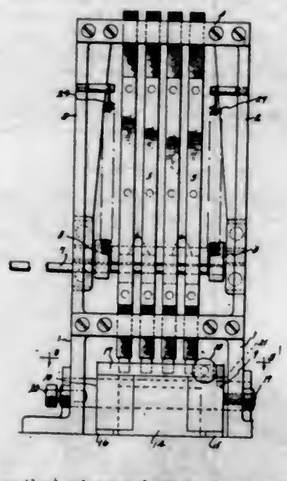
1. In an anæsthetizing machine having a yokelike member for receiving the neck of a gas container, the combination of a wedge member adapted to engage said neck, a screw carried by said yokelike member and adapted to be turned toward said neck, and connections between said screw and wedge member whereby the latter is forced firmly into engagement with said neck as said screw is thus turned.

1,687,769. MOP HOLDER. WILLIAM HERTZBERG, Brooklyn, N. Y. Filed Aug. 13, 1925. Serial No. 50,051. 2 Claims. (Cl. 306—11.)



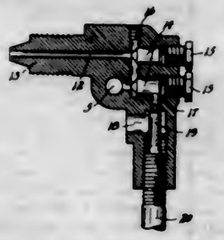
1. A mop holder consisting of a short length of normally open-ended seamless metal tubing flattened out for part of its length to provide a cylindrical socket to receive a mop handle and having one of its sides flattened against the adjacent side to provide a flat plate closing the end of the socket and having double the thickness of the socket wall, said socket having screw threads for engaging the mop handle, and a companion plate fastened to said flat plate, both of said plates having transverse grooves in juxtaposition to each other forming a cylindrical bearing for holding a mop frame rotatably supported therein.

1,687,770. METHOD OF MANUFACTURE OF ABRASIVE DEVICES. MARSDEN C. HUTTO, Detroit, Mich. Filed June 18, 1926. Serial No. 116,835. 9 Claims. (Cl. 25—156.)



1. The method of manufacture of an abrasive device from granular material of the desired composition which consists in first filling a mold with the material, then tamping small areas of the material individually to a substantially equal degree of pressure, striking off the mold, submitting the molded material to a greater degree of pressure, and finally firing the molded article.

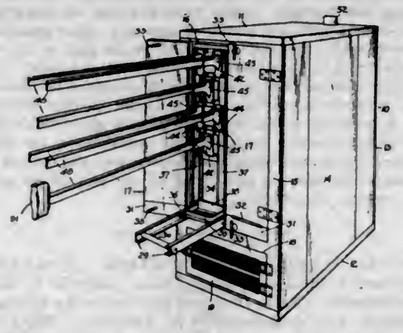
1,687,771. VACUUM OIL BURNER. WAYBURN E. JOHNSTON, Minneapolis, Minn. Filed July 2, 1923. Serial No. 648,948. 9 Claims. (Cl. 158—76.)



1. In a vacuum feed oil burner, a valve body comprising a nozzle having a discharge passage and an oil conduit, means for directing air at high velocity through said nozzle to produce a vacuum in a portion of said body in the rear of said discharge passage and in communication with said oil conduit, means for adjusting said first mentioned means, and an adjustable means for admitting air to said portion to control the degree of vacuum produced.

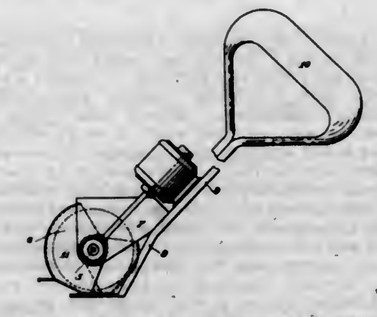
1,687,772. DRIER. LOUIS JUDELSON, New York, N. Y. Filed May 28, 1924, Serial No. 716,340. Renewed June 30, 1927. 10 Claims. (Cl. 34—40.)

1. In a drier, a cabinet having an opening at one end thereof, a movable drier carriage therefor, having a plurality of projecting sockets, drier arms rigidly and detachably supported only at one end in said sockets, and guiding



and supporting means arranged in the cabinet to hold the carriage in upright position in its travel in and out of said cabinet.

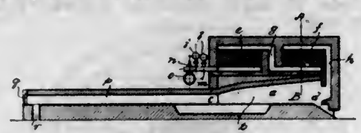
1,687,773. SURGEON'S SAFETY SAW FOR PLASTER CASTS. JOHANNES W. KAHLEN, Vancouver, British Columbia, Canada, assignor of one-half to Ursa Lee Rhodes, Bellingham, Wash. Filed May 4, 1927. Serial No. 188,726. 2 Claims. (Cl. 128—317.)



1. In a surgeon's saw for the removal of plaster casts the combination comprising, a circular saw, a spindle secured to said saw and a housing supporting bearings for said spindle, a main guide bar secured to said housing and terminating in a hand grip for controlling the device, a power driven shaft supported in said framework, a pair of bevel wheels connecting said shaft and said saw spindle, a toe piece forming an extension of said housing and being adapted to pilot the said saw and to intercept the bottom edge of said plaster cast from the wool padding surrounding the flesh of a patient requiring the operation of said saw, two shields of the nature of hoods each adapted to cover a section of said saw, one said shield being adapted to slide within the other and both being pivotal on the axis of said spindle, helical springs secured to said housing and adapted to retain the said shielding hoods in such a position as to cover the otherwise exposed portion of said saw.

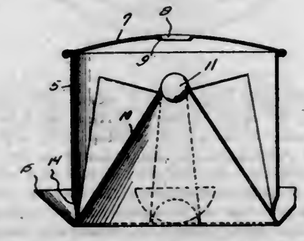
1,687,774. REGENERATIVE CHANNEL OVEN. HEINRICH KOPPERS, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 6, 1921, Serial No. 482,806, and in Germany Sept. 13, 1918. Renewed June 25, 1927. 10 Claims. (Cl. 263—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A channel oven embodying a regenerative heating system and a plurality of heating channels arranged parallel to each other, said channels being divided by a partition, said oven being arranged so that the pre-heated fuels enter one of the channels at the outlet end of said channel and flow counter-current to the direction of movement of the materials being heated in said channel, said burning fuel flow-



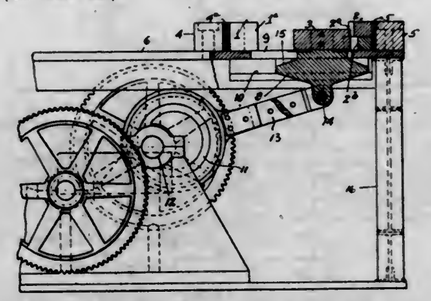
ing around said partition and into the other burning channel in the direction of movement of the material being heated therein, and from the outlet end of said other burning channel out through the outflowing regenerators.

1,687,775. GAME DEVICE. ELIE LESTAGE, New Bedford, Mass. Filed Oct. 18, 1927. Serial No. 226,929. 2 Claims. (Cl. 273—138.)



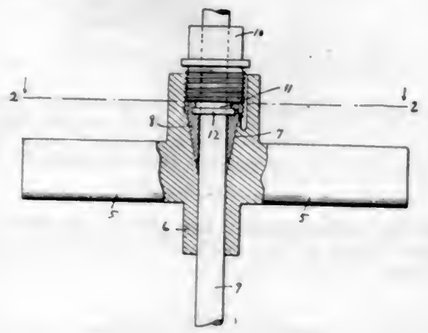
1. In a device of the character described, a container, having an opening centrally of its top wall, a cone arranged centrally within the container terminating at its upper end beneath the top wall of the container, a plurality of partitions arranged within the container around said cone for dividing the interior of the container into a plurality of compartments, and said container beng formed adjacent the lower ends of the compartments with discharge openings, all in a manner and for the purpose described, the upper end of the cone being open, and a bumper member arranged within the open end of said cone.

1,687,776. BAR-BENDING MACHINE. STANLEY MACOMBER, Massillon, Ohio, assignor to The Macomber Steel Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 21, 1925. Serial No. 57,611. 4 Claims. (Cl. 153—21.)



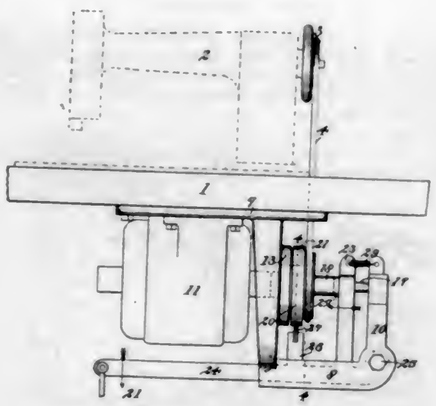
1. In mechanism for reversely bending bar-stock, the combination of a support on the order of a table top, two female swages secured to said top, the latter having a slot extending between said swages, a slide mounted on the under side of said top so as to be reciprocable longitudinally of such slot and wholly beneath said top and a unitary male swage mounted on said slide, the opposite ends of said male swage being formed to cooperate with said female swages, respectively.

1,687,777. POLISH-ROD GRIP. WILLIAM B. MCMURTRIE and WALTER B. GOVER, Shidler, Okla., assignors, by direct and mesne assignments, of one-half to William J. Donohue and one-half to Frank Wolfe, Tulsa, Okla. Filed Sept. 27, 1927. Serial No. 222,393. 1 Claim. (Cl. 24—263.)



A polish rod grip comprising a sleeve, the bore of the sleeve having an upper threaded portion, an intermediate portion tapering from the threaded portion, and a relatively small portion at the smaller end of the tapered portion for slidably receiving with a close fit a polish rod, wedge shaped slips receivable in the tapered portion, a cap screw threaded in the threaded portion to engage the slips, said slips being arcuate in transverse section and provided with interior notches at their upper ends to form an annular groove, said cap screw having an extension at its inner end with an annular outwardly projecting flange engageable in said notches.

1,687,778. CLUTCH AND BRAKE ASSEMBLY FOR POWER-DRIVEN MACHINES. ALFRED A. MORRIS, Los Angeles, Calif. Filed Feb. 27, 1928. Serial No. 257,328. 1 Claim. (Cl. 192—17.)



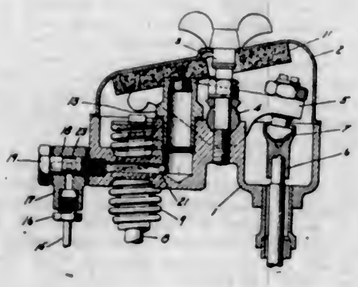
A clutch and brake assembly for power driven machines comprising, in combination with a supporting base, a yoke frame extending laterally from its face and terminating in parallel spaced arms united at their ends by a connecting bracket disposed in parallel spaced relation to the yoke forming members, a motor carried by the base and provided with an armature shaft in parallel alignment with said arms, a shaft fixed to said bracket and extending in parallel alignment with said armature shaft, a clutch member carried by the armature shaft, a clutch member carried by the fixed shaft, rotatable thereon and slidable horizontally thereof into and out of engagement with its cooperating clutch member, a lever extending between said arms and fulcrumed at its end to the base of said bracket, said lever provided with a lateral extension for engaging one of said clutch members to force the same into contact with the other, and further provided with a brake shoe for cooperating with the periphery of said clutch member to arrest its rotation on its disengagement from the other clutch member, and means for automatically holding said lever at the end of its movement in one direction.

1,687,779. LUBRICANT-EXPELLING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 11, 1925. Serial No. 8,585. 7 Claims. (Cl. 221—47.4.)



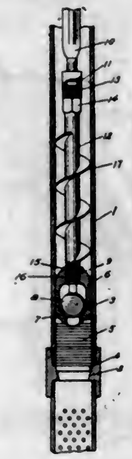
4. A booster for a lubricant compressor comprising a body part having a cylinder-bore formed therein, means secured to one end of said body part for making a sealed connection with a lubricant receiving nipple and for establishing communication between said cylinder-bore and said lubricant receiving nipple, a sleeve secured to the other end of said body part, a member slidable within said sleeve and carrying a hollow plunger of relatively small cross-section, said hollow plunger being reciprocable within said cylinder-bore, a conduit connected with said member, a non-return valve positioned between said conduit and said hollow plunger, and a second sleeve swiveled upon said conduit, said first named and second sleeves having a threaded connection for advancing and retracting said hollow plunger in said cylinder-bore by rotation of said second sleeve relatively to said first sleeve.

1,687,780. POROUS-METAL PLUG FOR VALVE LUBRICATION. FRED NEALE, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 1, 1926. Serial No. 106,017. 3 Claims. (Cl. 184—7.)



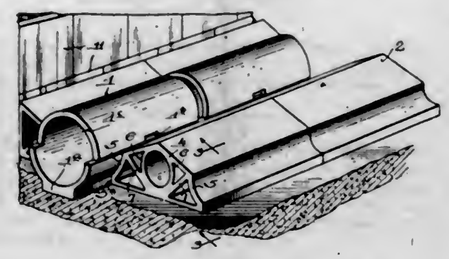
1. A fluid conduit, a terminal porous metal plug therein, having a degree of porosity commensurate with the desired discharge of fluid.

1,687,781. WORKING-BARREL-CLEANING DEVICE. DANIEL E. NORRIS, Robinson, Ill., assignor to Norris Brothers, Incorporated, Robinson, Ill., a Corporation of Illinois. Filed Mar. 1, 1927. Serial No. 171,848. 1 Claim. (Cl. 294—86.)



A barrel cleaning device comprising scrapers adapted to scrape the walls of the working barrel, said device having a screw-threaded lower end adapted to engage a standing valve, the scrapers extending to the upper end of the screw threads, and an upper end adapted to engage an operating rod.

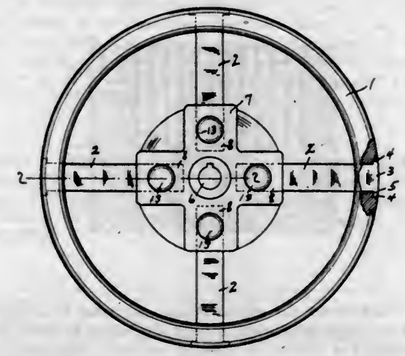
1,687,782. FLOOR BLOCK FOR DISPOSAL TANKS. JOHN M. NORTON, Fort Dodge, Iowa, assignor to Plymouth Clay Products Company, Fort Dodge, Iowa, a Corporation of Iowa. Filed June 20, 1927. Serial No. 200,006. 4 Claims. (Cl. 210—148.)



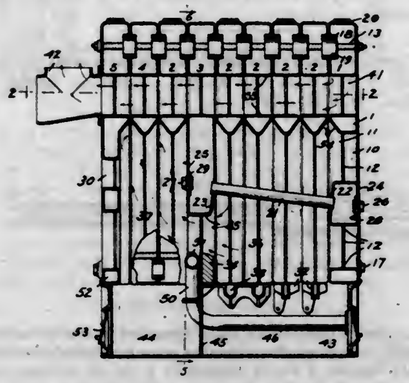
1. A disposal tank or the like having a floor of hollow tile members adapted to be laid end to end in abutting rows and comprising cylindric pipe sections forming parallel conduits and floor blocks having their top surfaces inclined downwardly on opposite sides toward and meeting said pipe sections substantially midway their height.

1,687,783. STEERING WHEEL FOR AUTOMOBILES. FRANK OUGHTON, Youngstown, Ohio. Filed Jan. 4, 1928. Serial No. 244,529. 2 Claims. (Cl. 74—33.)

1. In a device of the class described, a hub portion securely attached to a steering post of an automobile, a plurality of slotted recesses in said hub portion for the purpose of the insertion of spokes, a plurality of removable spokes functioning in said slotted recesses, a rim carried by said spokes, each spoke passing through said rim and securing said rim by means of an outer head, a plurality of keeper lugs for the purpose of securing inner ends of said spokes and means for manipulating the same positioned on the hub portion of said device, substantially as described for the purpose set forth.



1,687,784. SECTIONAL HEATING BOILER. HORACE H. PEEK, Chattanooga, Tenn. Filed May 18, 1925. Serial No. 30,990. 2 Claims. (Cl. 122—225.)

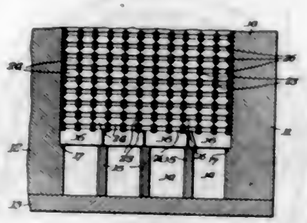


1. A heating boiler comprising, two water container portions, a grate comprising a plurality of independent side by side tubes connected to the near faces of said portions, a rear wall spaced from said portions, openings in the far faces of said portions and substantially in line with said tubes and normally closed by removable closure means, and one or more openings in said rear wall providing access to, and in line with, said tubes.

1,687,785. PROCESS FOR NEUTRALIZING CELLULOSE-BEARING MATERIAL FOR SUBSEQUENT SACCHARIFICATION. JOHN PERL, Los Angeles, Calif., assignor to M. M. Cory, San Diego, Calif. Filed June 15, 1925. Serial No. 37,349. 2 Claims. (Cl. 127—37.)

1. The herein described process of pretreatment of cellulose bearing material before saccharification by hydrolysis consisting in neutralizing the natural bases in said material with sulphuric acid.

1,687,786. CHECKERWORK AND BRICK THEREFOR. ALBERT E. PETERSON, Chicago, Ill. Filed Sept. 1, 1926. Serial No. 132,996. 12 Claims. (Cl. 73—15.5.)



1. Checkerwork for regenerators comprising in combination a plurality of courses of brick extending in horizontal directions and placed in rows in vertical directions, the bricks being held in spaced relation with each other in the horizontal courses and arranged in spaced relation with each other in respect to each adjacent course in a vertical direction.

1,687,787. SOFTENING COMPOUND. FREDERICK J. PILGRIM, Detroit, Mich. Filed Dec. 4, 1924, Serial No. 753,930. Renewed Aug. 23, 1928. 1 Claim. (Cl. 87—5.)

A softening compound adapted for attacking lacquered or like surfaces consisting 15% of water, 30% of mineral oil, 3% of soap, 1% of oil of mirbane, 1% of dye, and 50% of tripoli.

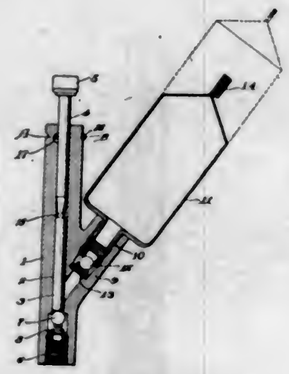
1,687,788. SCREW DRIVER. ABRAHAM S. PINKUS, New York, N. Y. Filed Nov. 3, 1925. Serial No. 66,656. 1 Claim. (Cl. 145—52.)



In a screwdriver of the class described, the combination, a handle, a tubular sleeve having one end slidably inserted in said handle, a shank formed in a bit at one end and spring fingers having inturned ends adjacent said bit slidably inserted with said shank in said sleeve, said spring fingers forming jaws controlled by said sleeve for holding a screw in alignment with said bit, a ferrule on said handle resisting the outward movement of said sleeve, a spring in said handle forcing said sleeve outwards and a sliding member secured to the end of said shank making a non-turning engagement with said handle whereby said bit is operated by the handle.

1,687,789. LUBRICANT COMPRESSOR. EMILE PIQUEREZ, Paris, France, assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 16, 1925, Serial No. 23,741, and in France June 20, 1924. 5 Claims. (Cl. 221—47.4.)

5. A pressure booster device comprising a member having a lubricant chamber, a connection for attachment to a bearing aligned with said chamber, a plunger reciprocable in said chamber, extending therefrom, and having a head at its protruding end, said head being adapted to receive a hammer blow, means to supply said chamber with lubricant under pressure, and a check valve between said last named means and said chamber, whereby said head may be



struck thereby to cause an explosive pressure upon the lubricant in said chamber.

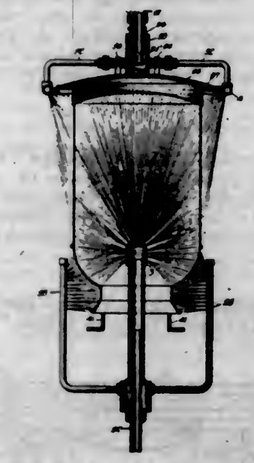
1,687,790. DISPLAY APPLIANCE. JAMES T. POWERS, Chicago Heights, Ill. Filed May 4, 1928. Serial No. 275,059. 2 Claims. (Cl. 40—146.)



1. In a display-appliance, the combination of a base, a standard supported by said base, a ring having an internal circumferential channel mounted on the top of said standard, means adjustably securing together the ends of said ring, a display-plate mounted in said ring with its edge accommodated in said channel, and means to prevent said plate from turning in said ring.

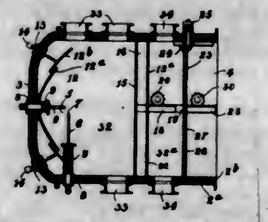
1,687,791. CAN-WASHING MACHINE. HARRY M. PRICE, Waukegan, Ill. Filed July 23, 1925. Serial No. 45,557. 9 Claims. (Cl. 141—7.)

1. A can washing machine of the class described, having means for intermittently feeding the cans from one position to another in said machine, spraying means movable downwardly from above the cans into effective position for spraying the exterior of the end of the cans in one of said positions, and a canopy movable downwardly with said



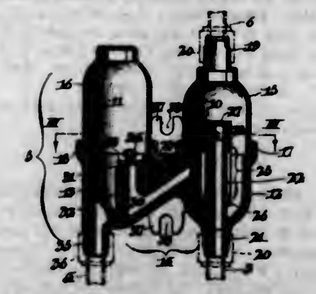
spraying means into position for preventing the spraying fluid from collecting in the cupped bottom ends of the cans.

1,687,792. RADIOCOMMUNICATION. ELMER M. RAVE, Brooklyn, N. Y., ass'gnor of one-third to Benton B. Hale, East Orange, N. J., and one-third to David H. Reid, Brooklyn, N. Y. Filed Oct. 28, 1922. Serial No. 597,508. 7 Claims. (Cl. 250—33.)



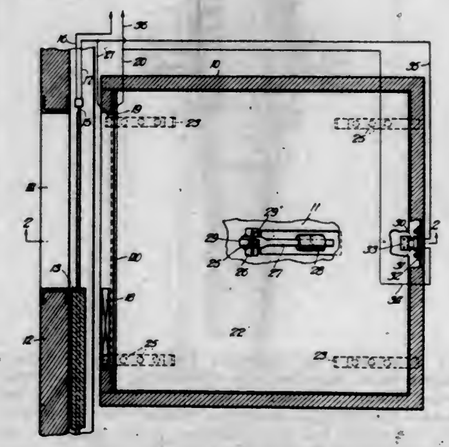
1. The hereindescribed method which consists in forming a beam of light, polarizing said beam, projecting it into space, and conducting electricity along said beam.

1,687,793. LIQUID-FUEL-FEED SYSTEM. JOSEPH PERCY REMINGTON, Philadelphia, Pa., assignor to Remington Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 17, 1921, Serial No. 508,076. Renewed Sept. 24, 1927. 16 Claims. (Cl. 158—36.4.)



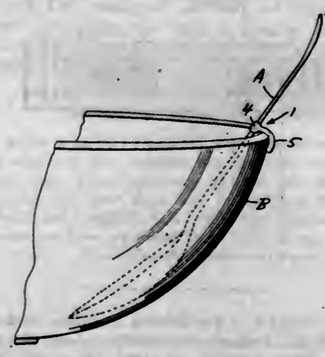
1. A method of feeding liquid fuel under presure, in amounts adapted to varying demand, in a conduit unchecked as against return of excess fuel, but with check-valved delivery; which method comprises exerting sufficiently rapid alternations of suction and pressure on the liquid in said conduit to surge the same inward under the suction impulses with sufficient energy to enable delivery to be made under the pressure impulses, by virtue of the inertia of the incoming fuel, as required by the demand, even with the conduit substantially open at the supply side of the check-valve means; and permitting fuel in excess of the requirements that is drawn inward by the suction to return through the conduit under the pressure.

1,687,794. MOVABLE FLOOR FOR ELEVATOR CARS. JOSEPH RICE, Chicago, Ill., assignor to Elevator Company of America, Chicago, Ill., a Corporation of Illinois. Filed Mar. 4, 1927. Serial No. 172,717. 4 Claims. (Cl. 187—29.)



3. A car having a framework, a movable floor carried by said framework, car control mechanism responsive to the position of said floor, means for movably carrying said floor on said framework, said means including a plurality of inclined runways and means, comprising a stop on said floor and a lever pivoted to said framework having a roller at one end engaging said stop and a weight pressing said roller against said stop for urging said floor upwardly along said runways.

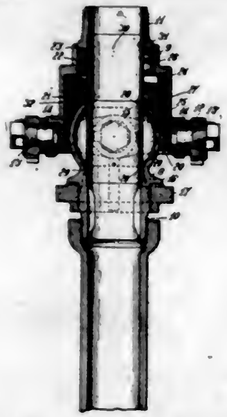
1,687,795. SPOON HOLDER. GEORGE T. RITTER, Burley, Idaho. Filed June 25, 1927. Serial No. 201,384. 1 Claim. (Cl. 65—65.)



A spoon holder of the class described formed from an elongated piece of wire bent back upon itself intermediate its ends, a free end of the wire being flattened and bent

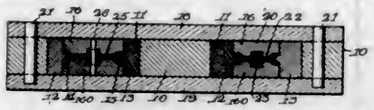
to form a pair of coacting gripping jaws for detachable engagement around the shank of the spoon, the intermediate portion of the wire being curved to provide a hook for engagement over the edge of a receptacle to maintain the spoon in an upright position against the inner face of the side of the receptacle.

1,687,796. FLEXIBLE PIPE JOINT. EDWARD A. RUSSELL, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed Mar. 10, 1927. Serial No. 174,203. 3 Claims. (Cl. 285—93.)



1. A flexible joint comprising a pair of pipe sections of similar inner diameter, one terminating in an enlarged socket member, the other terminating in a hollow ball member, articulating means for holding the ball member centered within the socket member, means housed within the socket member and engaging the outer spherical surface of the ball member for sealing the joint between the members, a cylindrical sleeve of the same inner diameter as the pipe sections threaded within the first mentioned pipe section and extending into proximity with the open end of the ball, and a similar sleeve threaded within the other pipe section and extending through the ball to its open end, whereby when the sections are in alignment a continuous unbroken passage of constant diameter is formed through the joint.

1,687,797. MOLDING DEVICE. HERMAN PAUL SACHSE, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 1, 1926. Serial No. 132,966. 3 Claims. (Cl. 18—42.)



1. In a molding device, an upper platen, a lower platen, a mold plate, between said platens, and in contact therewith during the molding operation, said plate having a plurality of openings of the same size and contour, extending through said plate, and sectional matrices interchangeably mounted in said openings, said matrices being adaped to form articles of different sizes.

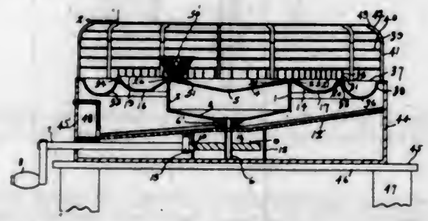
1,687,798. PULLEY COVERING. ANTON SCHWIEREN, Salisbury, Mo., assignor of one-half to Jesse Lee Frazier, Salisbury, Mo. Filed Mar. 7, 1927. Serial No. 173,602. 1 Claim. (Cl. 91—68.)

As a new product of manufacture, a covering for the surface of a pulley, said covering comprising a backing member of unbleached muslin, and a liquid coating for said muslin, possessing adhesive properties for causing the muslin to stick to the surface of the pulley when applied and for subsequently producing tenacious belt traction, said coating comprising gum arabic, four pounds; ground glue, fifteen pounds; alum, one pound; lampblack, one pound; isinglass, one pound; flour, twelve pounds; sugar, four pounds; and sal soda, one pound.

1,687,799. CASTING FERROUS METALS. PORTER W. SHIMER and EDWARD B. SHIMER, Easton, Pa. Filed Aug. 7, 1925. Serial No. 48,874. 8 Claims. (Cl. 22—184.)

1. A chaplet for use in ferrous metal founding, having a coating of a ferro-alloy which melts at or below the casting temperature.

1,687,800. BASEBALL GAME. GOLDWIN SMITH, Tampa, Fla. Filed May 9, 1927. Serial No. 189,948. 15 Claims. (Cl. 273—110.)



1. In a device of the class described a ball, a rotatable drum having a perforation in its center and having its top sloping upwardly from the center to its outer edge, a stationary circlet surrounding said drum and said circlet having a plurality of holes therein to receive said ball and manually operative means to rotate said drum, substantially as and for the purposes specified.

1,687,801. METHOD OF FABRICATING FELTS AND FELT MATERIALS. HYMAN STEIN and WILLIAM E. AUSTIN, New York, and IRVING LIEBOWITZ, Brooklyn, N. Y., assignors to Stein Fur Dyeing Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 10, 1925. Serial No. 8,306. 23 Claims. (Cl. 8—5.)

1. The method of treating animal fibres and the like to render the same more suitable for felting operations, which comprises treating such fibres with a metallic compound carroting agent and with a protective agent comprising a ferrous salt to protect such fibres against excess action thereon by a subsequent bleaching agent.

1,687,802. FELT AND FELT MATERIAL AND ARTICLES, SUCH AS HATS AND HAT BODIES MADE OF THE SAME. HYMAN STEIN and WILLIAM E. AUSTIN, New York, and IRVING LIEBOWITZ, Brooklyn, N. Y., assignors to Stein Fur Dyeing Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 10, 1925. Serial No. 8,307. 26 Claims. (Cl. 8—5.)

1. A feltable animal fibre impregnated with mercurial and iron compounds.

1,687,803. PROCESS OF AND COMPOSITION FOR BLEACHING. WILLIAM B. STODDARD, Stamford, Conn., and VAMAN R. KOKATNUR, New York, N. Y., assignors to Pilot Laboratory, Inc., Arlington, N. J., a Corporation of New Jersey. Filed Mar. 8, 1927. Serial No. 173,784. Renewed Dec. 29, 1927. 12 Claims. (Cl. 8—2.)

1. The process of bleaching comprising subjecting the food material to be bleached to the action of a peroxidized acid occurring in natural fats and oils.

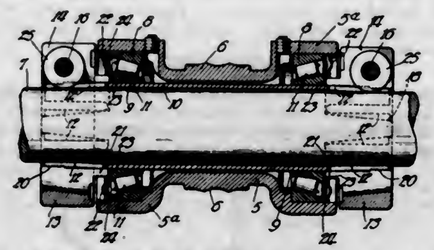
1,687,804. PROCESS OF AND COMPOSITION FOR BLEACHING. WILLIAM B. STODDARD, Stamford, Conn., and VAMAN R. KOKATNUR, New York, N. Y., assignors to Pilot Laboratory, Inc., Arlington, N. J., a Corporation of New Jersey. Filed June 7, 1927, Serial No. 197,226. Renewed Dec. 19, 1927. 19 Claims. (Cl. 8—2.)

1. A process of bleaching comprising subjecting the material to be bleached to the action of an organic peroxid compound and an activating per-compound therefor, whereby the effectiveness of the bleaching action of the organic peroxid compound is increased.

1,687,805. PROCESS OF BLEACHING FOODSTUFFS. WILLIAM B. STODDARD, Stamford, Conn., and VAMAN R. KOKATNUR, Arlington, N. J., assignors to Pilot Laboratory, Inc., Arlington, N. J., a Corporation of New Jersey. Filed Sept. 2, 1927. Serial No. 217,296. 9 Claims. (Cl. 8—2.)

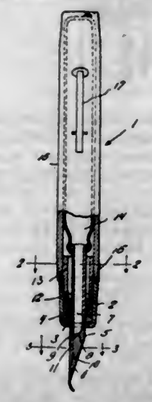
1. The process of bleaching comprising subjecting the material to be bleached to the action of a peroxidized compound constitutionally similar to the vehicle of the coloring matter in the material to be bleached.

1,687,806. BEARING FOR SHAFT SUPPORTS. ARTHUR P. STRONG, Mishawaka, Ind., assignor to Dodge Manufacturing Corporation, a Corporation of Delaware. Filed Apr. 24, 1925. Serial No. 25,462. 7 Claims. (Cl. 308—207.)



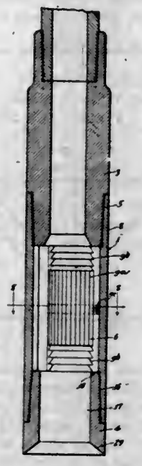
1. An anti-friction shaft bearing comprising, in combination, a housing; a tube extending therethrough; tapered roller bearings interposed between the tube and the housing; clamping collars at opposite ends of the housing; the tube being so constructed and arranged that it may be clamped to the shaft at each end by one of the collars; each collar split radially for contraction and having a series of fractional radial slots to facilitate contraction of the collar; and means bridging said split to contract the collar.

1,687,807. FOUNTAIN PEN. GEORGE T. SWASEY, Raymond, Wash. Filed Sept. 3, 1927. Serial No. 217,370. 2 Claims. (Cl. 120—51.)



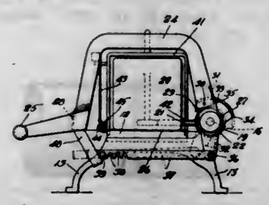
1. In a fountain pen, a tubular casing open at its respective ends, an elastic plug supported in the lower end of the casing, a compressing sleeve having its lower end portion threaded in the upper end of the casing, a barrel having its open lower end supported on said sleeve, a feeder having its upper end portion extending through the elastic plug and the sleeve, a pen point disposed against the top side of the lower end portion of the feeder, the upper end portion of the pen point extending into the elastic plug, and an ink sack within the barrel and attached to the upper end of the feeder.

1,687,808. FISHING TOOL. IDRIS THOMAS, Whittier, and ERNEST I. TIBBET, Huntington Park, Calif. Filed May 2, 1927. Serial No. 188,273. 5 Claims. (Cl. 294—94.)



1. A fishing tool for fishing "lost" objects out of a well, having an elongated retaining member for carrying slips, said retaining member having curved faces eccentric to its longitudinal axis and slips of arcuate form carried by the retaining member, having curved faces on one side to cooperate with the curved faces of the retaining member, and having a plurality of teeth on their opposite sides extending longitudinally of the fishing tool, said teeth operating upon a sudden rotation of the retaining member on its longitudinal axis to hold the slips relatively fixed, thereby enabling the eccentric curved faces of the tool to move the slips against the "lost" part, said slips further having circumferentially disposed teeth for gripping the "lost part" to facilitate raising the same out of the well.

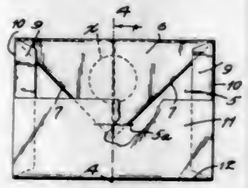
1,687,809. SLICING MACHINE. JOHN C. TROUVALIS, Portland, Me. Filed Feb. 15, 1928. Serial No. 254,378. 4 Claims. (Cl. 31—20.)



1. A slicer of the character stated, comprising in combination a base, a shaft including inner and outer journals rotatable in bearings on the base and an intermediate portion constituting a feed screw, a circular ratchet fixed to the outer journal and concentric therewith, a presser slidable on the base and provided with an arm including a nut engaged with the feed screw, slicing means including a

cutter-carrying lever pivoted at one end on the outer journal, and a cutter fixed to the lever, said lever and cutter being arranged to swing in a vertical plane across one end of the base, and cause the cutter to cut a slice from a projected portion of a body on the base, a pawl pivoted to the cutter-carrying lever and normally engaged with the ratchet to rotate the ratchet and feed screw, and feed a body on the base when the lever is moved in a cutting direction, a two-armed tripping lever oscillatable on the outer journal, and having on one arm a tripping shield cooperating with a tail piece on the pawl to disengage the pawl from the ratchet, and a manually operable latch bar pivoted to the other arm of the tripping lever and engageable in different positions with a fixed detent on the base, to vary the position of the shield relative to the path of the pawl, and thereby determine the thickness of a slice severed by the cutter.

1,687,810. COIN-CARRIER PRINT PROTECTOR. JASPER I. VAN VRANKEN, Winona, Minn. Filed Feb. 19, 1926. Serial No. 89,356. 1 Claim. (Cl. 229—87.5.)



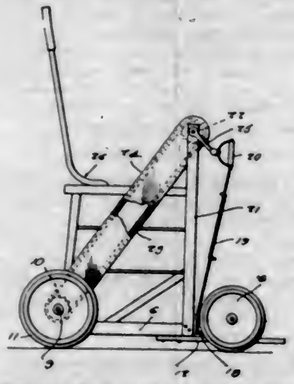
A combined envelope and coin carrier constructed of sheet material comprising a substantially rectangular body portion, a substantially rectangular tongue extending from one edge of said body portion and being of the full length of said body portion, but of less width, said tongue being provided with scores so that its corners may be folded inwardly along diagonal lines intersecting the central point of the free edge of said tongue, said corners when so folded forming a triangular coin pocket, said coin pocket being scored and being folded inwardly against said body member, said body member having a slot therein extending substantially parallel to the free edge of said tongue to receive the tip of said coin pocket and lock the same with said body member, said coin pocket lying entirely within the area of said body member when so folded, relatively narrow flaps extending from the side edges of said body portion scored for folding inwardly to engage a flat article disposed over said body portion and said coin pocket and a closing flap portion extending from the lower edge of said body portion scored for folding inwardly against said side flaps to retain said side flaps and form in combination therewith and with said body portion a protective envelope.

1,687,811. TUBE-SPLICING METHOD AND APPARATUS. NOAH L. WARNER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1928. Serial No. 245,712. 7 Claims. (Cl. 154—14.)



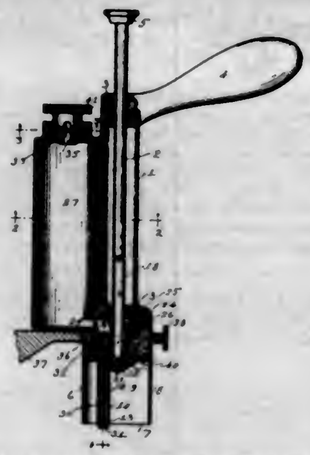
1. The method of splicing together two tube ends of adhesive stock which comprises cuffing back the tube ends and forcing annular zones of the stock at the folds of the cuffs into serrated form and interfitted relation to each other to form a seam and severing the excess of cuffed back stock from the seam on a zig-zag line of cut having relation to the serrated form of the said zones.

1,687,812. PORTABLE CHAIR CARRIER. CHRISTIAN WEBER, Stockton, Calif. Filed Aug. 15, 1927. Serial No. 213,098. 4 Claims. (Cl. 208—32.)



1. In a structure of the class described, a supporting base for a chair, bearing brackets carried by said base, a shaft mounted for rotation upon the bearing brackets, driving wheels on said shaft, a platform carried by said base, steering wheels mounted on said platform, an operating device for the driving wheels located at a point spaced above said base, and an adjustable control device for the steering wheels.

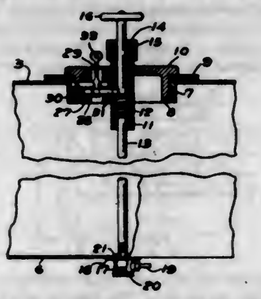
1,687,813. ICE-CREAM SCOOP. EARL W. WERNER, Muskegon Heights, Mich., assignor of one-half to Gail D. Maze, Muskegon, Mich. Filed June 29, 1927. Serial No. 202,205. 9 Claims. (Cl. 107—48.)



1. In a device of the character described: a body having an end adapted to be thrust into the material and provided with a chamber open at said end and extending in the longitudinal direction of the body, the body having also a rod extending in said direction in the chamber and spaced inwardly from the lateral wall of the chamber; a plunger slidable in the body in said direction and having a head in the chamber through which head the rod extends.

1,687,814. OUTLET LOCK FOR GASOLINE TANKS. ROBERT G. WESTBROOK and STEPHEN A. BROWN, Birmingham, Ala. Filed Sept. 27, 1926. Serial No. 138,086. 1 Claim. (Cl. 70—90.)

A container having opposed inlet and outlet openings, a removable closure member for the inlet opening, a rigid valve stem carried by the inlet opening closure member and extending into proximity to the outlet opening, a valve yieldingly supported by the stem for closing the outlet



opening, and means for simultaneously locking the valve stem and inlet closure when the valve is seated.

1,687,815. METHOD OF TREATING AND FORMING ARTIFICIAL FUEL. HERBERT E. WETHERBEE, Cleveland, Ohio, assignor of one-third to Richard F. Grant and one-third to Howard M. Hanna, Cleveland, Ohio. Filed Apr. 13, 1926. Serial No. 101,639. 7 Claims. (Cl. 44—18.)



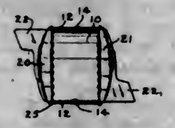
1. The herein described method of treating subdivided fuel materials preliminary to coalescing the same, which consists in subjecting a mass thereof in moistened condition to the action of a filming carrier and a binding material for the fuel, whereby the latter is evenly applied to the fuel particles, substantially as set forth.

1,687,816. GARTER BUCKLE. FRANK E. WILSON, Cleveland, Ohio, assignor to The Wilson Fastener Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 3, 1925. Serial No. 60,138. 7 Claims. (Cl. 24—74.)



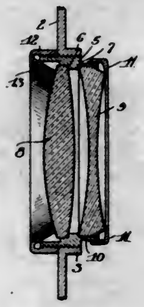
1. In a buckle, the combination of a body and a pair of clamping members each clamping member having a back flange from a portion of which adjacent one end only extends a lever arm overhanging the other clamping member, each back flange being indented at the place of the overlapping of the lever portions of the clamping members.

1,687,817. GARTER BUCKLE. FRANK E. WILSON, Cleveland, Ohio, assignor to The Wilson Fastener Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 7, 1926. Serial No. 153,067. 8 Claims. (Cl. 24—74.)



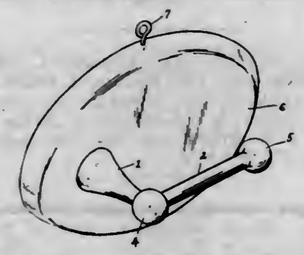
4. In a buckle, a buckle body having its surface concavely formed and a clamping member pivotally connected thereto which when in an open position is formed with a jaw surface to be concave in an opposite direction relative to the body concavity.

1,687,818. LENS MOUNT. ANDREW WOLLENSAK, Rochester, N. Y., assignor to Wollensak Optical Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 20, 1923. Serial No. 613,899. 2 Claims. (Cl. 88—57.)



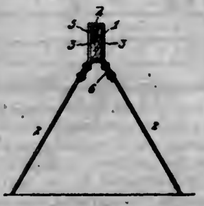
1. In a lens mount, the combination with a tube exteriorly threaded and having an interiorly arranged lens seat and a lens arranged in said seat, of an interiorly threaded ring on the tube having an interior reversed flange extending into the latter and bearing upon the lens to hold it to its seat so that the end of the tube rests in a doubled portion of the ring and a reversed flange bears edgewise against the lens along a line spaced inwardly of the tube.

1,687,819. ROLL HOLDER. JOHN R. WORTHINGTON, Penfield, N. Y. Filed May 13, 1927. Serial No. 191,062. 2 Claims. (Cl. 242—55.2.)



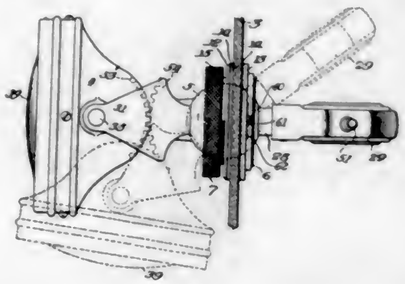
1. A fixed self centered supporting bracket for paper rolls comprising a supporting member, anchoring means at one end of said supporting member, an enlarged ball member of uniform diameter at the other end of said supporting member, a fixed shaft member supported in said enlarged ball member and a second enlarged ball member of uniform diameter at the free end of said pivot member.

1,687,820. BARRICADE. EMIL W. ACKER, Cleveland Heights, Ohio. Filed Feb. 1, 1928. Serial No. 251,088. 2 Claims. (Cl. 256—64.)



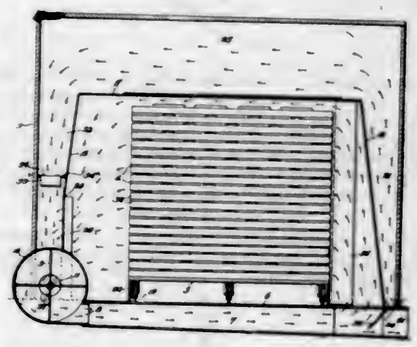
1. A barricade support comprising a metal body member formed into two upwardly converging legs whose upper ends are vertically extended into substantially parallel sections connected at the top by an integral horizontal section, and a strap securing together the upper ends of the converging portions to form an enclosure and support for a barricade end between said parallel sections, said horizontal section and said strap.

1,687,821. SPOTLIGHT. GEDOR W. ALDEEN, Rockford, Ill., assignor to Fyrac Manufacturing Co., Rockford, Ill., a Corporation of Illinois. Filed Apr. 30, 1926. Serial No. 105,625. 15 Claims. (Cl. 240—61.)



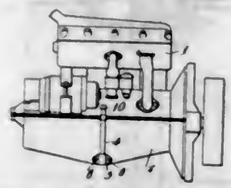
5. In a spotlight, a housing having an opening at one side thereof, a member mounted for substantially universal movement in said housing, a stem connected to and projecting from said member and through the opening on one side of said housing, a spotlight pivotally connected to said stem, means connected with said member for rotational movement with said member about the axis of said housing and secured against pivotal movement relative to said spotlight, means connecting said lamp and first said means whereby said lamp and first said means may be moved relatively and together, and a single handle non-rotatably secured to said member for moving said member.

1,687,822. PROCESS AND APPARATUS FOR REMOVING CHEMICALS AND MOISTURE FROM LUMBER, WOOD, AND OTHER SUBSTANCES. HENRY CLAY BABEL, Buffalo, N. Y., assignor to Myrtle L. Babel, Buffalo, N. Y. Filed Jan. 5, 1925. Serial No. 647. 21 Claims. (Cl. 34—19.)



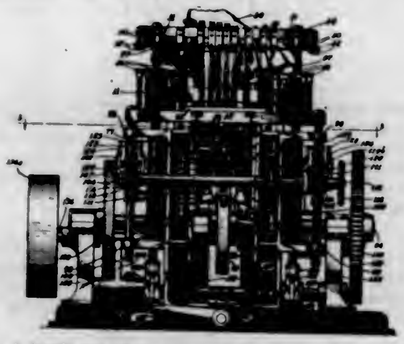
1. The herein described process of drying and treating material which consists in subjecting the material while in a retort to the action of a continuously forced circulating medium, causing the circulating medium to pass horizontally through the material from one side of the retort to the other and downward to the bottom of the retort and to return beneath the material, the medium making its complete circuit within the retort, and exhausting an entire lower stratum of the circulating medium at the bottom below the material while the circulating medium is returning to the latter to eliminate the moisture from the material at the lowest gravitational point at the level of said medium, and reheating the circulating medium after passage through the material and prior to the return of the circulating medium at the bottom of the retort.

1,687,823. FITTING FOR DRAINAGE OF LUBRICANTS FROM LUBRICANT-CONTAINING CASES. LELAND S. BESSONETT, San Francisco, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Jan. 27, 1925. Serial No. 5,178. 2 Claims. (Cl. 184—1.5.)



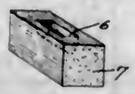
2. The combination of a lubricant containing case having a side drainage outlet near the lowest point of the said case, a fitting secured to the said case in fluid tight relation over the said outlet and having a chamber providing a sediment receiving sump below the said opening, and a vertically extending suction tube rigidly secured to the said fitting and extending into the said sump.

1,687,824. LASTING MACHINE. VIRGIL H. BODLE and FRED C. FRANCISCO, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 1, 1925. Serial No. 40,782. 14 Claims. (Cl. 12—10.)



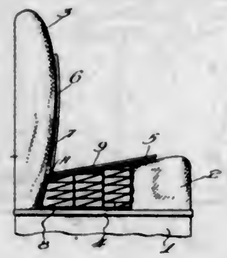
1. A lasting machine comprising a set of jaw carriers defining a lasting position, a pair of gripper jaws mounted on each of said carriers, stock-positioning means mounted on each of said carriers for drawing a piece of stock into the gripper jaws thereon, a jaw-closing member movably mounted upon each of said carriers and adapted in one part of its range of movement to actuate said stock-positioning means and by further movement to close the gripper jaws, means movable with relation to said jaw carriers for concurrently actuating said jaw-closing members, the latter being adapted to be similarly actuated by said actuating means notwithstanding their different positions of adjustment from or toward the lasting position, and means for concurrently adjusting some of said jaw carriers toward and others away from the lasting position to adapt them for right or left shoes alternatively.

1,687,825. DIE BLOCK AND METHOD OF TREATING STEEL FOR USE IN THE MANUFACTURE THEREOF. HERMAN A. BRASSERT, Kenilworth, Ill. Filed Oct. 14, 1926. Serial No. 141,679. 5 Claims. (Cl. 76—107.)



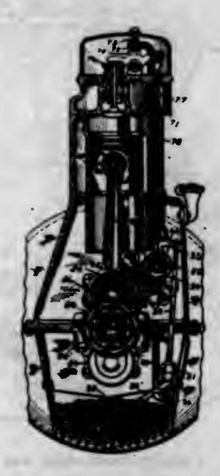
1. The method of making a die block and die from an elongated block having a longitudinal grain which consists in upsetting the block and foreshortening the same by forging in the direction of the grain to substantially the finished dimensions and simultaneously refining the grain structure throughout the block, forming a die impression within the peripheral confines of a face transverse to the orginal longitudinal axis, and by the repeated impact of use, under a forging hammer further refining the remainder of the block.

1,687,826. SUPPORT FOR REMOVABLE SEAT COVERS. HAROLD C. BURKHARD, Chicago, Ill. Filed Feb. 19, 1927. Serial No. 169,566. 2 Claims. (Cl. 155—182.)



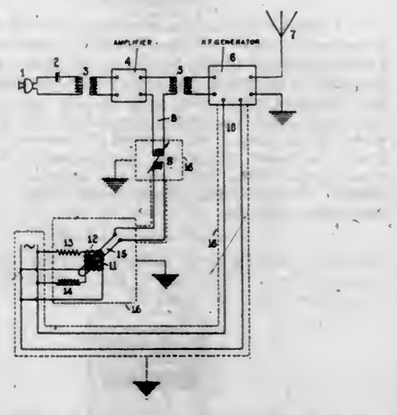
1. In combination with a seat and back therefor, a covering comprising sections of suitable material adapted to overlie respectively the seat and back, a support for said covering comprising an upright adapted to cooperatively engage the back covering and the back, and elements spaced relative to each other projecting from said upright and adapted to cooperatively engage the seat cover and seat, the element engaging the seat covering being slidably adjustable relative to the upright.

1,687,827. METHOD AND CONTROL DEVICE FOR LUBRICATING SYSTEMS. FRANCIS E. BUXTON, Indianapolis, Ind. Filed Jan. 17, 1921. Serial No. 437,961. 8 Claims. (Cl. 184—6.)



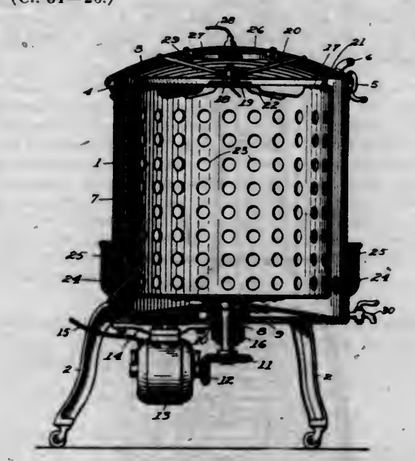
1. A mechanism of the class described comprising a fixed cradle, a bearing element located therein, a crank shaft passing thru and rotatably supported by the said bearing element, said bearing element comprising a rotatable bushing and being provided with a plurality of pockets on its periphery, means for rotating said bearing element, a source of pressure, an inlet opening in the cradle connected to the source and adapted to intermittently communicate with the pockets in their rotation and to deliver oil thereto, outlets from said pockets to the bore of the bushing to supply oil to the crank shaft bearing, and a discharge outlet at a point circumferentially spaced from the said inlet and adapted to intermittently register with said pockets in their rotation, whereby the supply of oil in said pockets will be discharged and renewed upon each rotation of the bearing element.

1,687,828. WIRELESS-TELEPHONE TUBE SENDING STATION. HENRI CHIREIX, Paris, France. Filed July 23, 1923, Serial No. 653,181, and in France Oct. 4, 1922. 10 Claims. (Cl. 250—6.)



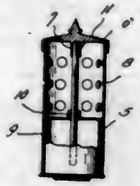
1. The method of eliminating feed frequency tones and harmonics thereof in modulating systems utilizing alternating or rectified currents which consists in deriving from such currents another current and supplying such current to the modulating current in a manner to neutralize the feed-frequency tones.

1,687,829. DRIER. HENRY W. CLARK, Danville, Ill. Filed May 18, 1927. Serial No. 192,400. 3 Claims. (Cl. 34—26.)



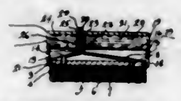
1. In a drier the combination of a rotatable perforated container, means for rotating the container, a heating element adjacent the container, and a cover for the container and comprising in part a fan for producing a flow of heated air from the heating element to the interior of the container.

1,687,830. AIR ODORIZER FOR ELECTRIC FANS. MERRITT A. CLEVENGER, Greenville, Mich. Filed Apr. 18, 1927. Serial No. 184,690. 1 Claim. (Cl. 299—20.)



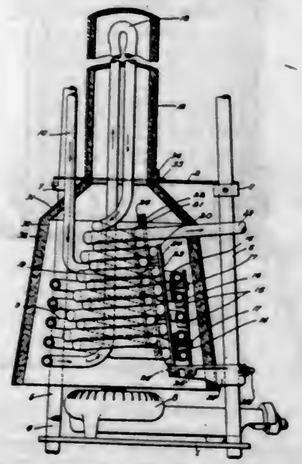
In a diffuser of the class described, a casing open at its upper end, a removable cover therefor, a depending sleeve formed centrally on the bottom of the cover, an odorant container of materially less height than said casing removably arranged within the casing for rest upon the bottom thereof, said container being closed and formed in its top with a filling neck, a wick secured at its upper end in said sleeve, the lower end of the wick extending downwardly through the filling neck into the container, the upper portion of the casing being formed with a series of spaced air openings.

1,687,831. SCRUBBING BRUSH. GUSSIE COHEN, Cincinnati, Ohio. Filed Apr. 2, 1927. Serial No. 180,578. 4 Claims. (Cl. 15—138.)



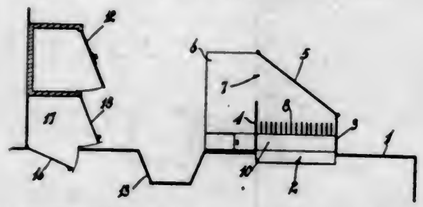
1. A scrubbing-brush comprising a casing having a soap containing compartment therein, a brush secured to said casing and positioned below said compartment, a resilient distributor in said casing and having grooves therein, means to convey the soap from said compartment to said grooves, means to convey said soap from said grooves to the bristles of said brush, and means connected with said distributor and adapted to automatically stop the flow of said soap from said compartment.

1,687,832. STEAM GENERATOR. BASIL POMEROY COOPER, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 26, 1922. Serial No. 608,990. 2 Claims. (Cl. 122—250.)



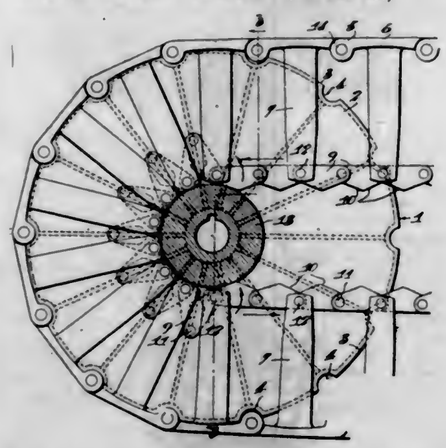
1. A steam generating device, having in combination, a fuel burner, a heat retaining housing surrounding the burner, a plurality of sets of connected, vertically arranged, coils of piping within the housing and heated by the burner, and a water reservoir open to atmospheric pressure and connected to the inlet end of the piping, one set of coils being arranged to be used for generating steam from water therein and another set being arranged to be used for superheating the steam generated in the first-mentioned set, the connection between said sets of coils comprising an inverted U-tube extending above the highest possible water-level of the reservoir, and located within the heat-retaining housing.

1,687,833. BURGLARPROOF BANK CONSTRUCTION. DAVID G. EARL, Long Beach, Calif. Filed Jan. 4, 1928 Serial No. 244,414. 6 Claims. (Cl. 20—1.01.)



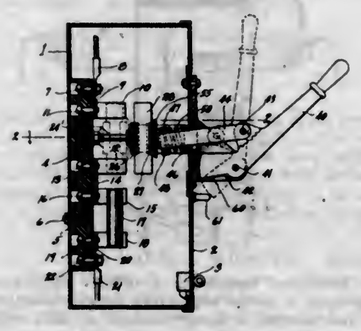
1. A burglar proof bank construction comprising a bullet proof wall, a window in said wall, an inclined mirror back of said window, the teller being adapted to stand to one side of said mirror thus being visible therein to patrons standing in front of the window and a plurality of vertical plates extending across said window to prevent a bandit from placing a gun therebetween and covering the teller a drawer extending transversely across the window and a plate covering the drawer, said drawer and plate being operable by the teller.

1,687,834. TRACTION WHEEL AND CHAIN. CLAYTON E. FREDERICKSON, Chicago, Ill. Filed Nov. 23, 1927. Serial No. 235,340. 2 Claims. (Cl. 305—8.)



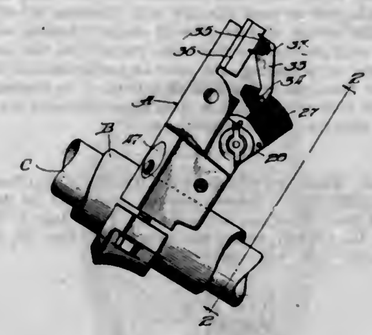
1. In a tractor, a bridge truss chain and wheel cooperating therewith, said wheel comprising a hub of relatively small diameter and side members having rim portions of relatively large diameter around which the chain passes, said side members being spaced apart, said chain comprising traction links having arms extending inwardly at right angles to the tread face of the link, and a pair of triangular connecting links between and connecting adjacent arms, said connecting links having their apex projections side adapted to engage the hub of the wheel to "break" the links inwardly and retard opening of the traction links, substantially as shown and described.

1,687,835. SAFETY SWITCH. ANDREW E. GRISWOLD, Seattle, Wash. Filed Dec. 27, 1926. Serial No. 157,155. 3 Claims. (Cl. 200—154.)



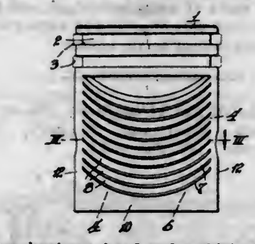
3. In a switch of the character described, a housing, a mounting panel within the housing, switch jaws mounted on the panel adapted for connection with line terminals, a pair of posts fixed on the panel, a switch bar slidably mounted on the posts, switch blades mounted by the bar and movable therewith into and from the jaws, a yoke fixed to the bar having a slot therein, a lever pivotally mounted on the housing, a link pivotally connected at one end with the lever and slidable at its other end through the yoke slot, a cross plate fixed to the latter end of the link and a coiled compression spring disposed about the link between the yoke and said end plate.

1,687,836. AUTOMOBILE LOCK. ORVILLE S. HERSHEY, Chicago, Ill., assignor to Hershey Manufacturing Company, Chicago, Ill., a Corporation of Colorado. Filed June 26, 1926. Serial No. 118,675. 8 Claims. (Cl. 70—127.)



1. In a lock, the combination with an operating member, of a bolt movable into engagement with said member to oppose operation thereof, a rotatable shaft connected with the bolt for advancing the same, a detent for normally preventing movement of the shaft, and release means for the detent extending through the shaft for operation at one end thereof, substantially as described.

1,687,837. PISTON FOR INTERNAL-COMBUSTION MOTORS. ALBERT C. HOECKER, St. Louis, Mo., assignor of one-third to Paul F. Krause, St. Louis, Mo. Filed Jan. 28, 1925. Serial No. 5,214. 6 Claims. (Cl. 74—108.)



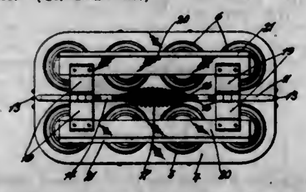
1. A piston having a head and a skirt, said skirt having a series of transverse slots formed therein extending at an angle to the vertical axis of the piston, thereby providing a series of separated portions in the entire skirt length.

1,687,838. MACHINE FOR DISPENSING OIL. ROBERT V. JONES, Chicago, Ill. Filed Jan. 17, 1925. Serial No. 3,034. 2 Claims. (Cl. 194—53.)



1. A coin controlled liquid dispensing apparatus comprising a vertically movable pump actuating member, rotatable actuating means therefor, a pair of oppositely acting ratchet wheels operatively connected with the actuating means, a double acting pawl constantly engaged with one of the ratchet wheels, coin controlled means for actuating the pawl to a position where the actuating means may be free to rotate in a clock-wise direction, a vertically movable rod supported above the pawl, and means operable upon the pump actuating member reaching its limit of travel in an upward direction for lowering the rod against the pawl to disengage one of its arms from one of the ratchet wheels and cause the other arm to engage the other ratchet wheel whereby to allow counter-clockwise rotation of the actuating means.

1,687,839. CARRYING FRAME. CHARLES M. KRUGER, St. Louis, Mo. Filed Mar. 23, 1927. Serial No. 177,507. 7 Claims. (Cl. 224—48.)



1. A frame comprising a bottom having depressed portions to contain oil and flat elevated portions to support

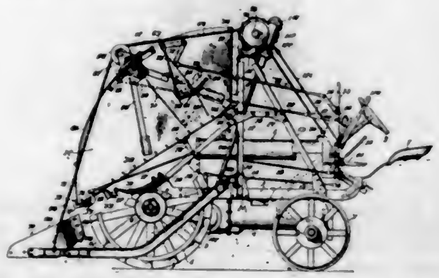
bottles, an upper frame part having openings in vertical alinement with the respective elevated portions of the bottom, a bar extending longitudinally above the frame and having its ends attached to said bottom and to said upper frame part, two parts of arms pivoted to said bar, and a plate attached to each pair of arms and arranged to engage against the beveled ends of bottle spouts.

1,687,840. RAIL-CONNECTING ROD. FRANK H. LAMB, Hoquiam, Wash. Filed Aug. 23, 1926. Serial No. 131,035. 4 Claims. (Cl. 238—53.)



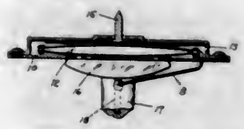
1. A rail tie of the character described, comprising a cross rod, wedge members threaded on the rod for engagement with the under surfaces of the base flanges of the rails, yokes adjustable on the rod and adapted for overlapping flanges of the rails in opposed clamping relation to said wedge members and clamping nuts threaded on the rod for tightening the yokes against the rail flanges and wedge members.

1,687,841. POWER-OPERATED PORTABLE LOADER. GEORGE MANIERRE, Milwaukee, Wis. Filed Dec. 19, 1924. Serial No. 756,943. 9 Claims. (Cl. 214—90.)



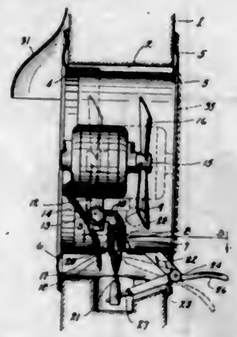
1. In a device of the character described, the combination of a tractor having an engine and a chassis, a hoisting device, an engine shaft, a secondary shaft permanently driven by said engine shaft, a worm gear transmission permanently driven by said secondary shaft, a transmission shaft operatively connected with the hoisting device, and operator controlled means for selectively connecting and disconnecting said worm gear transmission to and from said transmission shaft respectively.

1,687,842. EXPANSIBLE AND CONTRACTIBLE ELEMENT AND MOUNTING THEREFOR. IRA E. MCCABE, Chicago, Ill. Filed Oct. 24, 1927. Serial No. 228,258. 8 Claims. (Cl. 297—9.)



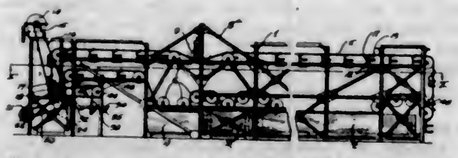
1. An expansible and contractible element comprising a section of flattened resilient metallic tubing with the ends thereof closed and sealed.

1,687,843. VENTILATOR. ALLEN O. MILLER, Seattle, Wash. Filed Mar. 30, 1927. Serial No. 179,586. 6 Claims. (Cl. 98—29.)



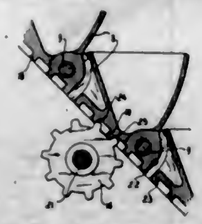
1. A ventilator comprising a thimble applicable to a wall opening, a motor supporting means rotatably fixed within the thimble, a motor mounted by said supporting means, a fan fixed to the motor shaft for driving an air current through the thimble and a lever connected with the supporting means operable from without the thimble for reversing the position of the motor support and motor as a means of reversing the direction of the air current.

1,687,844. PICKLING MACHINE. CONSTANTINE G. MILLER and CHARLES F. CLEVELAND, Chicago, Ill., assignors to The Meaker Company, a Corporation of Illinois. Filed Aug. 22, 1925. Serial No. 51,726. 6 Claims. (Cl. 266—7.)



6. In an automatic pickling machine of the class described, the combination with a plurality of tanks, mechanism for carrying a plurality of different articles through said tanks in a certain definite sequence to pickle, rinse and neutralize said different articles, a stationary platform, a movable table positioned adjacent thereto, said mechanisms adapted to pass through said platform to deliver the pickled articles thereon, kick-off means rotatably acting through said platform to discharge the articles therefrom, and means for actuating said table at predetermined times to permit one class of the pickled articles to be discharged from said table while another class of said articles are discharged directly from said platform.

1,687,845. DRIVING GEAR FOR THE BUCKET CHAINS OF DREDGERS. HENRI ARNOLD JOHANNES DE BIJLL NACHENIUS, Haarlem, Netherlands. Filed Aug. 5, 1926, Serial No. 127,387, and in the Netherlands June 30, 1926. 4 Claims. (Cl. 198—203.)



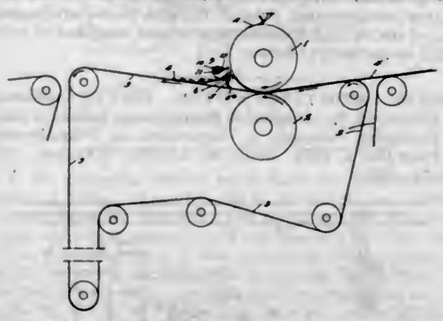
1. An endless bucket chain including links formed as racks, the pitch between the final tooth of one bucket rack and the initial tooth of the next bucket rack being normally less than the pitch of the remaining teeth of a bucket rack.

1,687,846. DEVICE USED IN PIE BAKING. LLOYD FRANK NELSON, Seattle, Wash. Filed Jan. 22, 1927. Serial No. 162,818. 1 Claim. (Cl. 53—6.)



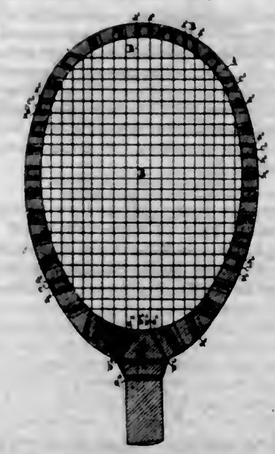
The combination of a pie pan having an upper peripheral flange, a reversible annular trough to catch the overflow from said pie pan, said trough having its outer wall higher than the depth of the pan and provided with perforations and serving to support the pan by the flange in an elevated position to permit the circulation of air below the pan.

1,687,847. PAPER-MAKING MACHINE. ROBERT E. READ, White Plains, N. Y., assignor to International Paper Company, a Corporation of New York. Filed Jan. 6, 1927. Serial No. 159,253. 6 Claims. (Cl. 92—38.)



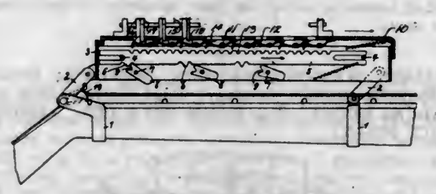
1. In a paper making machine, the combination of a rotary roll, a traveling member in position to receive the paper web from said roll, a cutting device operable to sever a lead strip on the roll, and a fluid blast device associated with said cutting device and in position to blow on the severed end of the strip and operating to carry it toward the traveling member.

1,687,848. TENNIS AND LIKE RACKET. GEORGE ROBINSON and JAMES ROBINSON, London, England. Filed Mar. 22, 1928, Serial No. 263,882, and in Great Britain Apr. 2, 1927. 2 Claims. (Cl. 273—73.)



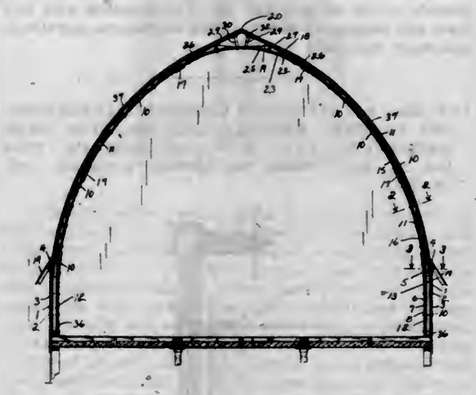
1. A tennis or like racket comprising a frame a plurality of separate strings forming the mesh, groups of holes in the frame through which each end of each string is threaded in and out, the end being ultimately passed under a portion of the string lying between two holes so that when the string is pulled taut it will be gripped and held by this portion without the use of wedges.

1,687,849. PLAYING DEVICE FOR GUITARS AND SIMILAR INSTRUMENTS. THEODOR SCHMIDT, Berlin, Germany. Filed Jan. 8, 1926, Serial No. 80,061, and in Germany Oct. 1, 1925. 3 Claims. (Cl. 84—317.)



1. A playing device for guitars and similar instruments, comprising in combination string pressing levers, means for swinging said levers into vertical positions, a support holding the whole device vertically movable on the neck of the instrument, and means for pressing the device downward so as to touch the strings by the vertically positioned string pressing levers.

1,687,850. FRAME FOR BUILDINGS. JOHN G. SHODRON, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis. Filed Feb. 1, 1926. Serial No. 83,164. 11 Claims. (Cl. 20—1.)

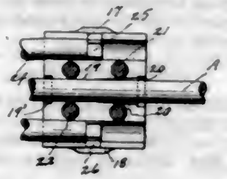


1. A building stud-rafter frame member comprising a set of opposed inwardly curving units, a trussed connecting unit having outer portions substantially tangential to the curving outer surfaces of the first mentioned units and leading to an intermediate peak, said connecting unit having an inner surface constituting a continuation of the inner surfaces of the first mentioned units, each of said units having spaced outer and inner walls with intervening spacing and reinforcing members, and the tension member of the connecting unit being arranged tangential to the inner portion and to extend across the space underneath the peak along the inner wall to junction points in the outer portion at each side of the peak.

1,687,851. COMBINATION CLAMP. OSCAR C. STAPLES, Tulsa, Okla. Filed Jan. 3, 1928. Serial No. 244,186. 6 Claims. (Cl. 24—123.)

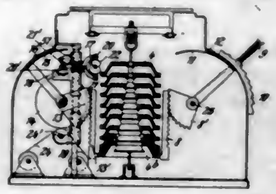
1. A combination clamp comprising a pair of clamp members having sockets and rod grooves, a pull loop having

heads engaging in the sockets, bolts securing said members together and for clamping them about a pull rod, and an



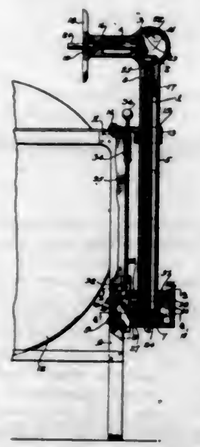
arched handle on one of the clamp members for supporting the clamp.

1,687,852. WEIGHING MACHINE. WILLY PÖLZ, Berlin-Niederschonhausen, Germany. Filed Sept. 28, 1923, Serial No. 665,362, and in Norway May 5, 1925. 9 Claims. (Cl. 265—5.)



1. A weighing machine comprising a scale beam, a plurality of sets of superimposed weights capable of acting on different points of said beam, the weights in one set being equally heavy, the weights in the set acting on the point of the beam remotest from the fulcrum being heavier than those nearest the fulcrum, means for gradually bringing the weights of one set into and out of cooperation with said beam and registering and recording mechanism operatively associated with said latter means.

1,687,853. ROTATIVE AND LOCKING UNIT-SUPPORTING CLOTHES WRINGER AND INCASING GEAR MECHANISM. DAVID M. WENGER, Leola, Pa. Filed Dec. 28, 1927. Serial No. 243,132. 9 Claims. (Cl. 68—32.)



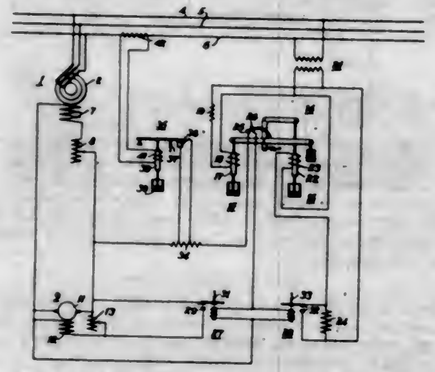
1. In a rotative unit of the character described, a continuous housing for vertical and horizontal shafts, the vertical shaft having a gear at one end for cooperating with a gear connected to the horizontal shaft, the continuous housing having an enlarged section of spherical formation for receiving the gearing in meshed relationship therein, an opening in the enlarged section of the housing for access to the gearing, and a detachable cover for the opening, bearings within the housing for properly aligning the shafts therein, means at the lower end of the housing for locking the unit at predetermined points in its rotation, and a protective covering for the locking means.

1,687,854. BALE TIE. BERT ANDERSON, Houston, Tex., assignor to Anderson, Clayton & Company, Houston, Tex. Filed Feb. 18, 1928. Serial No. 255,417. 2 Claims. (Cl. 24—20.)



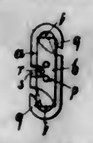
1. A bale tie including overlapping and underlapping ends, the overlapping end having a struck out loop extending longitudinally thereof and providing a longitudinal slot, the said loop and slot having lateral extensions, the underlapping end of the tie having a struck out button provided with an intermediate rectangular head providing abrupt shoulders at opposite sides of the button, the said button being engaged through the slot in the overlapping end of the tie with the shoulders thereof presented in proximity to one end of the loop.

1,687,855. REGULATOR SYSTEM. JOHN H. ASHBAUGH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 4, 1924. Serial No. 753,867. 6 Claims. (Cl. 171—229.)



1. In a regulator system, the combination with a power circuit and a dynamo-electric machine connected thereto, of means for governing the excitation of said dynamo-electric machine comprising an exciter generator, a regulator and a plurality of relays connected to said exciter generator and actuated in accordance with the operation of said regulator, and means operative upon a predetermined load condition on said machine for extending the normal range of operation of said relays.

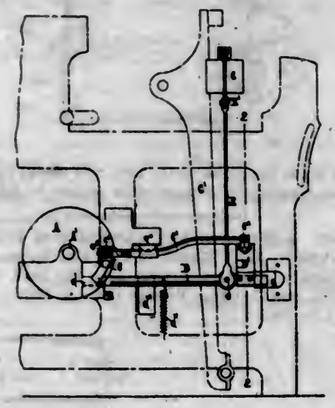
1,687,856. TIGHTENING AND GRIPPING DEVICE FOR STRING EMPLOYED IN THE TYING OF PARCELS. HUGO JOHN BUCHANAN-WOLLASTON, Lowestoft, England. Filed June 11, 1926, Serial No. 115,209, and in Great Britain June 20, 1925. 6 Claims. (Cl. 24—18.)



1. A device to facilitate tightening and automatically to grip string or cord comprising a body having an open-

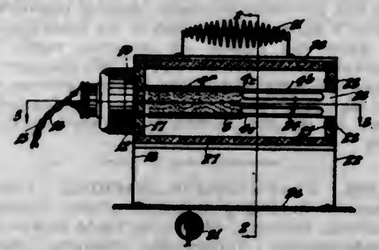
sided aperture therein and a tongue of resilient material having one end rigidly anchored to said body and its other free end partially covering said aperture.

1,687,857. PICKING MOTION FOR LOOMS FOR WEAVING. ALBERT CASS, Manchester, England, assignor of one-half to James Robinson and Alfred Ackroyd, Eccles, England. Filed July 9, 1927, Serial No. 204,626, and in Great Britain July 15, 1926. 4 Claims. (Cl. 139—142.)



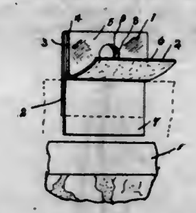
1. An underpick motion for a loom for weaving comprising a picker sliding in a slot in the shuttle box bottom, a lever depending therefrom and pivoted to the picker by which the picker is operated, a rod to which the lower end of the depending lever is affixed, bearings in the frame in which the rod is carried and a projecting plate affixed to the rod, a rotary disc, a tappet shaft on which the disc is mounted, a cam on the face of the disc, a lever pivoted between its ends to the frame one end contacting with the cam, a roller on the other end of the lever to contact with the projecting plate on the aforesaid rod whereby an oscillating movement will be imparted to the latter at each revolution of the disc and the movement transmitted to the picker through the depending lever.

1,687,858. ELECTRICAL HEATER. FREDERICK CHARLES CURTIS, London, England. Filed June 6, 1927, Serial No. 196,968, and in Great Britain July 9, 1926. 6 Claims. (Cl. 219—34.)



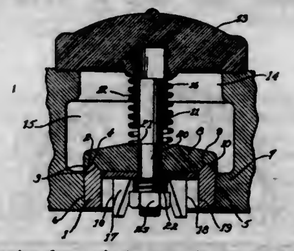
6. An electric heater comprising in combination, an outer cylindrical casing of thin metal supported in a standard, a smaller tube of insulating material having ends of insulating material, and a smaller central tube of thin metal perforated along one portion of its length and wound on the other section of its length with a single layer of a resistance coil insulated on its inner and outer surfaces, the central tube being supported on one end in a recess in a disc forming one insulated end of the insulated tube and carrying the terminals, the central tube being supported at its other end in an opening in the other insulated end of the insulated tube, concentric air spaces being formed between the three tubes.

1,687,859. SUSPENSION DEVICE FOR MAPS, ETC. JESSE W. FONTAINE, Salinas, Calif., assignor to Harry W. Hall, San Francisco, Calif. Filed Nov. 10, 1926. Serial No. 147,568. 7 Claims. (Cl. 24—67.)



1. A device adapted to be detachably secured to a support rod for suspending maps comprising a folded strip of material having the opposed surfaces of its fold flaps coated with an adhesive, means for detachably securing said strip to a support rod, a strip of reinforcing and stiffening material interposed between the said flaps and of less depth than the flaps whereby the free end portions of the flaps will extend below the lower edge of said reinforcing and stiffening strip, said free end portions constituting means for securing said strip to the edge of a map, and a line of stitching run through the said flaps beneath the lower edge of the said reinforcing and stiffening strip.

1,687,860. SLUSH-PUMP VALVE. GEORGE S. FOSNAUGH and BERNARD JOHNSON, Naples, Calif. Filed June 1, 1927. Serial No. 195,637. 3 Claims. (Cl. 251—144.)



1. In a valve for a slush pump to pump water carrying mud, sand and pebbles, the combination of an annular seat of hardened material having only two substantially conical faces intersecting to form an elevated ridge, and a valve-disk of hardened material having an annular groove on its under side with two substantially conical faces to come upon the said seat, said valve-disk having a guide stem, means for guiding the valve stem to permit the valve-disk to rise off its seat and return thereto, by the action of the pump, said valve-disk and seat cooperating when the valve rises and returns to its seat to crush the sand or pebbles lodging on the seat.

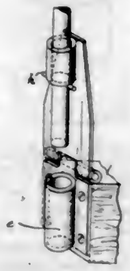
1,687,861. VULCANIZATION OF RUBBER. CECIL JOHN TURRELL CRONSHAW and WILLIAM JOHNSON SMITH NAUNTON, Manchester, England, assignors to British Dyestuffs Corporation Limited, Manchester, England. Filed Jan. 4, 1926, Serial No. 79,260, and in Great Britain Mar. 12, 1925. 1 Claim. (Cl. 18—53.)

A process for accelerating the vulcanization of rubber which comprises combining rubber with dimeta-xylyl guanidine and vulcanizing the rubber.

1,687,862. MOSQUITO BAR (OR NET) CARRIER. LUIS DE SENA Y FREIXAS, Habana, Cuba. Filed May 3, 1926, Serial No. 106,588, and in Cuba May 3, 1925. 3 Claims. (Cl. 135—5.)

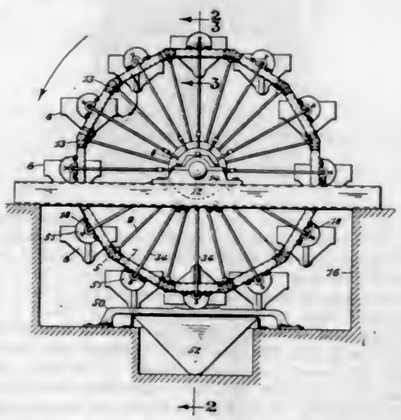
3. A net carrier for beds comprising a fixed hinge leaf secured to each of the ends of the crosspieces located at

the head and foot of the bed respectively, a movable hinge-leaf pivoted to each fixed leaf, a socket carried by each leaf of each hinge, a rod adapted to slide in the sockets of each hinge and to swing between vertical and horizontal positions, a cross pin on each rod located between the two sockets on each hinge and limiting the movement of



the rod, and means for attaching the net to said rods, the two hinges located at the opposite ends of the head and foot cross-pieces respectively being offset with relation to each other so that the rods carried thereby can be folded down side by side transversely across the bed when the device is not in use.

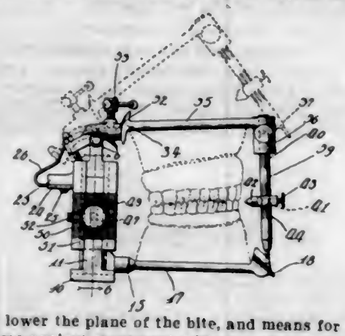
1,687,863. FILTER. WALTON C. GRAHAM, Denver, Colo. Filed July 26, 1924. Serial No. 728,454. 6 Claims. (Cl. 210—196.)



1. A filter comprising a moving carrier, a trunioned filter tray movably mounted thereon, a filtering medium dividing the tray into upper and lower compartments, conduits connecting the trunnions of the tray with the two compartments respectively, and valve means adapted to connect the trunnion connected with the lower compartment, with suction means and to connect the other trunnion consecutively with a feed supply and a source of water supply during determinate periods in the movement of the carrier.

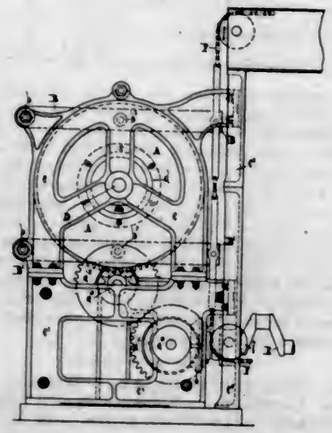
1,687,864. ARTICULATOR FOR ARTIFICIAL DENTURES. D. STANLEY HILL, Effingham, Ill. Filed Oct. 3, 1923. Serial No. 666,217. 3 Claims. (Cl. 32—1.)

1. An articulator comprising a base, a mold supporting member secured thereto, a frame mounted for vertical adjustment on said base, a second mold supporting member pivoted to said frame, corresponding graduations carried by said base and frame, a post carried by said frame having graduations corresponding to those on said frame and base whereby said frame and post may be adjusted to



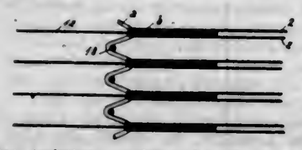
raise or lower the plane of the bite, and means for securing said frame against movement with respect to said base.

1,687,865. SHEDDING MECHANISM FOR LOOMS FOR WEAVING. JOHN HENRY HINDLE and THOMAS HINDLE, Haslingden, England. Filed Aug. 31, 1927, Serial No. 216,678. and in Great Britain Oct. 12, 1926. 2 Claims. (Cl. 139—81.)



1. A shedding motion for looms comprising tappets, having cam grooves on both sides, mounted transversely of the loom, a shaft at right angles to the longitudinal axis upon which the tappets are mounted, tappet levers mounted above and below the tappet shaft, the upper levers engaging and being operated by the cam grooves on one side of the tappets, and the lower levers engaging and being operated by the cam grooves on the other side of the tappets.

1,687,866. FLAT-KNITTING MACHINE. CHRISTIAN FRIEDRICH KAUFMANN, Heinrichsort, near Lichtenstein-Callnberg, Germany, assignor to David Richter A. G., Maschinenfabrik Tüllweberei, Chemnitz, Germany. Filed Feb. 3, 1927, Serial No. 165,677, and in Germany May 14, 1926. 4 Claims. (Cl. 66—96.)



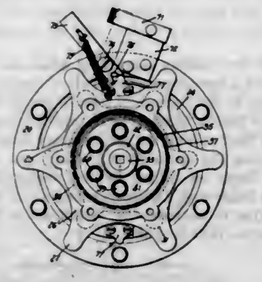
1. A flat knitting machine for the manufacture of plated fabrics with any desired pattern, comprising a machine bed, a plurality of needles, a plurality of sinkers

capable of coacting with the needles, an arm fixed to the machine bed, guides on the said bed, small bars in pairs slidable in the said guides, an offset on the small bars, a cylinder, jacquard cards capable of travelling round the cylinders, spring loaded pressure bars for engaging with the said offsets on the small bars and pressing them against the jacquard cards on the cylinder, means for approaching the cylinder towards the small bars, whereby, on the cylinder moving forward, a plurality of pairs of small bars are displaced, according to the perforations in the jacquard card, forwardly towards the needles, of the knitting machine, displacing the ground thread in such a manner that, after the formation of the loop, it lies on the right side of the fabric, as set forth.

1,687,867. STUFFING MATERIAL. HANS OVE LANGE, Copenhagen, Denmark. Filed Nov. 26, 1927, Serial No. 236,024, and in Denmark Oct. 14, 1927. 3 Claims. (Cl. 19—146.)

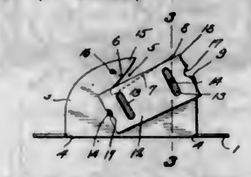
1. Stuffing material consisting of seed hair having feather barbs closely mixed therewith.

1,687,868. ELECTRICAL APPARATUS. RALPH H. LANGLEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed June 10, 1922, Serial No. 567,323. Divided and this application filed Dec. 1, 1926. Serial No. 152,029. 3 Claims. (Cl. 175—41.5.)



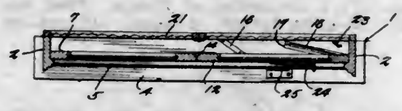
1. In an adjustable condenser, a stator element comprising a stator plate and a rotor element comprising a rotor plate and a switch having one of its elements connected to the stator plate and another one of its elements connected to the rotor plate, said switch being under the control of the rotor element and operable thereby whereby the rotor and stator plates may be connected and disconnected.

1,687,869. CUTTER. WILLIAM P. MARSTON, Jr., Lake Crystal, Minn. Filed Aug. 29, 1925. Serial No. 53,329. 3 Claims. (Cl. 30—14.)



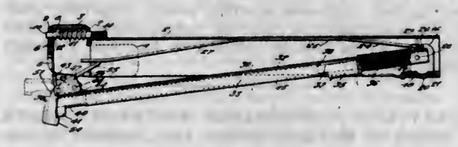
1. A cutter of the class described comprising a base plate having a clamping plate rising therefrom and provided in its upper edge with an inwardly inclined recess with an overhanging nose forming one wall thereof, a cooperating clamping plate correspondingly shaped to the first mentioned plate, said plates having registering apertures for fastening screws, and a reversible blade having transversely extending slots to register with the apertures in the clamping plate, said blade having notched ends to permit its reversibility.

1,687,870. WINDOW DEVICE. CARL E. MATSON, Chicago, Ill. Filed Oct. 22, 1925. Serial No. 64,214. 1 Claim. (Cl. 20—42.)



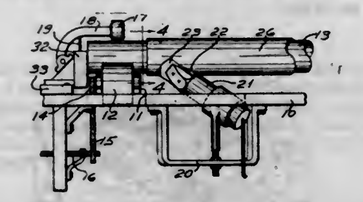
In a device of the class described, a frame, a first sash, means for mounting the first sash for right-line sliding movement on the frame, a second sash alined with the first sash, means for mounting the second sash on the frame for movement in a direction transverse to the direction in which the first sash slides, for movement in a direction parallel to the direction in which the first sash slides, and for swinging movement about at right angles to the first sash, and a latch-mechanism forming a releasable connection between the second sash and the frame, to limit all of the aforesaid movements of the second sash, the latch mechanism being interposed in the path of the first sash to stop the right-line sliding movement of the first sash when the first sash moves toward open position.

1,687,871. STAPLING MACHINE OR TACKER. ARTHUR H. MAYNARD, Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me., a Corporation of Maine. Filed Dec. 4, 1926. Serial No. 152,698. 14 Claims. (Cl. 1—49.)



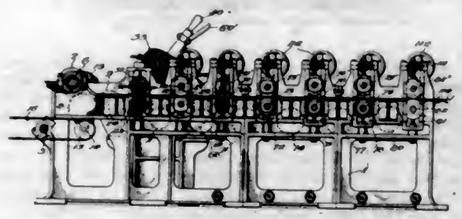
3. A stapling-machine or tacker comprising a channel-shaped sheet-metal handle, a hollow hammer-head also constructed of sheet-metal and having portions secured to the sides of the handle, a staple-core pivoted at the rearward end of the handle and extending forwardly beneath the hammer-head, a staple-driver carried by the hammer-head to be reciprocated across the end of the staple-core, and means for feeding the staples along the core to deliver them successively into position to be acted upon by the driver.

1,687,872. APPARATUS FOR TUBE MANUFACTURE. CHARLES EDGAR MAYNARD, Northampton, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Original application filed May 27, 1926, Serial No. 111,968. Divided and this application filed May 9, 1927. Serial No. 190,037. 4 Claims. (Cl. 164—36.)



1. A beveling and trimming knife for a rubber tube on a mandrel which comprises a cutting edge curved to encircle the mandrel with a progressively diminishing distance between them, and extending helically of the mandrel, whereby when a tube on the mandrel is rotated in contact with the knife the tube will be trimmed off on a circumferential line and the end of the tube simultaneously skived.

1,687,873. MACHINE FOR PRODUCING FLEXIBLE ROOFING ELEMENTS. OWEN D. MCFARLAND, Chicago, Ill., assignor to Guyton & Cumfer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 6, 1926. Serial No. 127,679. 6 Claims. (Cl. 164—28.)



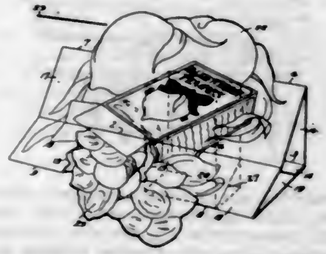
3. Apparatus for producing individual roofing strips from a continuous sheet of flexible roofing material comprising in combination means for feeding said continuous sheet of flexible roofing material, transverse severing means comprising a knife carried by a shaft mounted for rotation, sets of design-forming means, each set differing in design and comprising upper and lower shafts carrying said design-forming means, means individual to each set for throwing said set into and out of operation, means for rotating the transverse severing means and sets of design forming means in timed relation, means for varying the relative speed of rotation of the sheet-feeding and transverse severing means comprising gears of different diameters receiving rotation from the source of power which imparts rotation to said sets of design-forming means.

1,687,874. ADJUSTABLE FASTENING MEANS. JOSEPH C. MCNALLY, Denver, Colo., assignor of one-half to Robert B. Eldredge, Denver, Colo. Filed May 10, 1927. Serial No. 190,247. 6 Claims. (Cl. 156—15.)



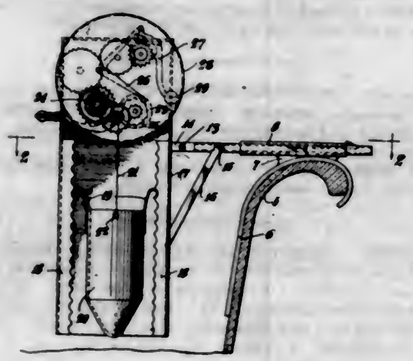
1. A device of the character described comprising a member having an open end, a knurled member adapted to enter said open end, and a washer on the last-mentioned member adapted to engage a knurl thereof when engaged by the open-ended member.

1,687,875. DISPLAY STAND. REGINALD B. MELLER, Alameda, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Jan. 8, 1924. Serial No. 684,965. 6 Claims. (Cl. 40—149.)



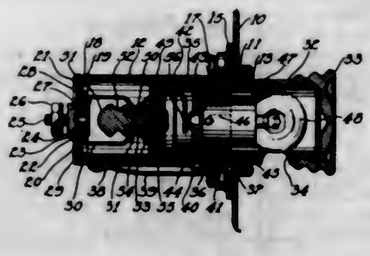
1. A single sheet folded to form a display stand having a base and sides, display designs on one of said sides, a portion of said sheet severed from said base to pivot at one of the folds and forming a perspective surface extending from and at an angle to said design carrying side, said perspective surface correlated with said designs in making a unitary display.

1,687,876. ALARM DEVICE. HUGO MOESER, New York, N. Y. Filed May 2, 1928. Serial No. 274,386. 1 Claim. (Cl. 116—111.)



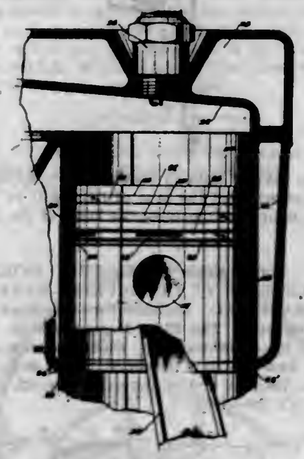
A device for audibly signalling when water in a bath tub has reached a predetermined level comprising a cylindrical casing open at the bottom, a pair of racks fixed to the inner wall of the casing diametrically opposite each other, a hollow metal float, a pair of spring arms attached to the float and engaging the racks with a force just sufficient to support the float, an alarm device mounted on the casing above the float, and a cord connected to the float and the alarm device to actuate the latter when the float is filled with water so that it sinks.

1,687,877. MOTOR-VEHICLE LAMP. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 27, 1926. Serial No. 137,992. 12 Claims. (Cl. 240—8.16.)



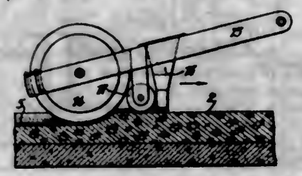
1. A lamp structure comprising a socket member, a plug member mounted to rotate and to move longitudinally in the socket member, interlocking means comprising a tongue extending through the socket member and engaging the plug member permitting rotary and longitudinal movement of the plug member, a lamp in the plug member, a terminal for the lamp and a contact means for the lamp actuated by the longitudinal movement of the plug and permitting rotation thereof.

1,687,878. INTERNAL-COMBUSTION ENGINE. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 28, 1924. Serial No. 702,481. 1 Claim. (Cl. 74—109.)



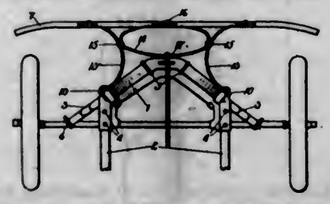
In an internal combustion engine, the combination of a cylinder and a piston therein, said piston having the end of its skirt exteriorly rounded off more on the side receiving the greatest pressure on the working stroke than on the other side.

1,687,879. FORMING WAYS OR DUCTS IN PLASTIC MATERIAL. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Aug. 19, 1925. Serial No. 51,249. 4 Claims. (Cl. 25—128.)



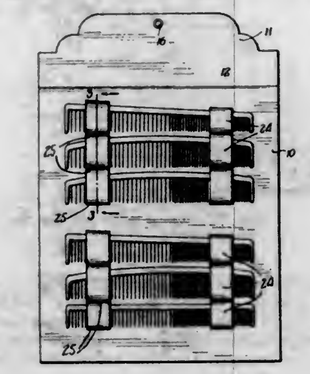
1. In the making of a floor containing a layer of comparatively poor plastic material, the method of forming grooves in said material which consists in applying a comparatively rich plastic material to the top of said layer and passing over the same a roller having a periphery of the desired cross-section of the groove and pressed down sufficiently to force the comparatively rich material down into the comparatively poor material and to form a groove lined with such comparatively rich material.

1,687,880. AUTOMOBILE BUMPER. DON D. MYERS, Toledo, Ohio. Filed Sept. 13, 1920. Serial No. 409,968. 15 Claims. (Cl. 293—55.)



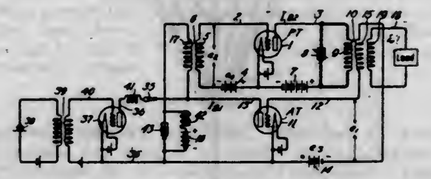
15. An automobile bumper comprising an impact member; an interconnected member forming a unit for absorbing shock on said impact member, said unit being adapted to contact with said automobile substantially at its center line.

1,687,881. DISPLAY DEVICE. HAROLD L. MYERS, Morristown, N. J. Filed Feb. 2, 1927. Serial No. 165,268. 2 Claims. (Cl. 206—80.)



1. In a display device, a panel having a pair of openings therethrough, and means to hold an article of merchandise against the front surface of said panel, said holding means consisting of a keeper having end loops or straps projectable forward through said openings and an integral shank connecting the strap members and lying flat against the rear surface of said panel, the keeper structure including two similar mating shank members secured together and having at the ends of the shank members a pair of straps forming loops to receive and hold the article to be displayed.

1,687,882. OSCILLATION GENERATOR AND MODULATOR. HAROLD W. NICHOLS, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1923. Serial No. 629,033. 14 Claims. (Cl. 179—171.)

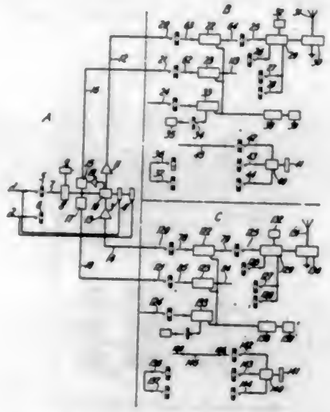


8. An amplifier of the space current type having an input and an output circuit, means for normally blocking the transmission of space current to said output circuit, and means associated with said output circuit for translating a sinusoidal wave into a complex wave, and means for supplying said complex wave to said input circuit.

1,687,883. TRANSMISSION SYSTEM. HENRY W. O'NEILL, Elmhurst, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1926. Serial No. 142,587. 15 Claims. (Cl. 250—6.)

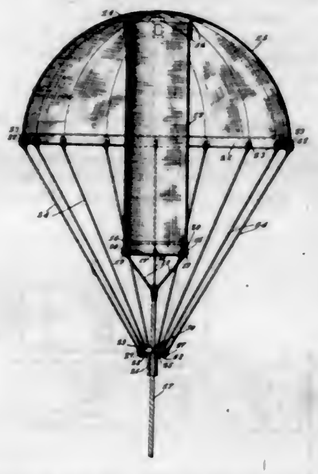
2. In a radio-wire telephone system, a transmission circuit formed of a land line section and a radio section, means for communicating over said circuit, a monitoring line

and a plurality of telephone sets therefor, a derived path to join said transmission circuit to said monitoring line, and



means to render said derived path conductive only in the direction from said transmission circuit to said monitoring line.

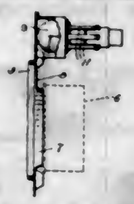
1,687,884. PARACHUTE. FRANK R. OWENS, Beaver Crossing, Nebr. Filed Aug. 10, 1927. Serial No. 212,055. 3 Claims. (Cl. 244—21.)



1. A parachute having a dome of flexible material, a tube secured therein by one end, said end being in spaced relation to the dome of the parachute, a rigid ring secured in the lower end of the tube, a rope secured to said ring, ropes secured to the lower edge of the dome of the parachute and having a slidable connection with the first mentioned rope.

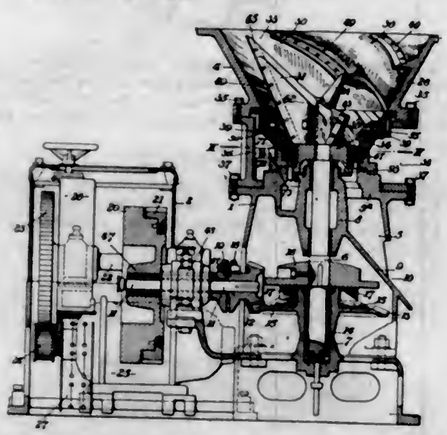
1,687,885. INSTRUMENT PANEL. JOHN R. PADESKY, La Crosse, Wis., assignor, by mesne assignments, to National Gauge & Equipment Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 17, 1926. Serial No. 88,831. 4 Claims. (Cl. 240—8.16.)

1. In a panel assembly, an electric light placed rearwardly of the panel and concealed from the operator at the front thereof, dials for instruments placed on said panel and substantially parallel thereto and having their faces exposed at the front thereof, flanges surrounding said dial faces at the rear of the panel having cut away portions for light openings, a reflector for said electric light formed to



converge the rays of light in radial lines towards the cut away portions whereby the rays of light will be projected through the light openings upon the faces of the dials.

1,687,886. APPARATUS FOR THE UTILIZATION AND TREATMENT OF DIFFICULTLY-MANAGEABLE WASTE MATERIAL. RICHARD PHILIPP, Eisenach, Germany, assignor to The Firm Magnetwerk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Saxe-Weimar, Germany. Filed Sept. 5, 1924, Serial No. 736,089, and in Germany Feb. 12, 1924. 28 Claims. (Cl. 29—4.5.)



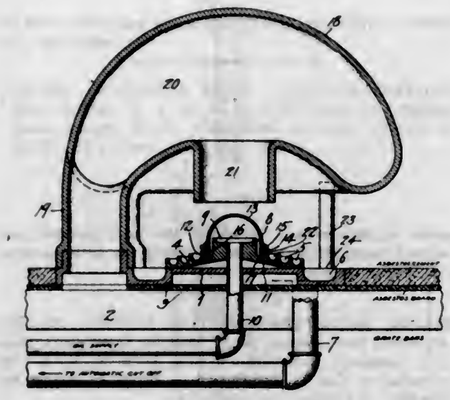
8. Apparatus of the kind described, comprising: a casing, stationary knives helically disposed on the inner wall of said casing, a shaft revoluble and axially shiftable within said casing, a knife head mounted upon said shaft and adapted to cooperate with said stationary knives, knives disposed on said knife head in such angular relation to said stationary knives that a lifting of the knife head is produce on an excessively strong piece of material being engaged by said knives.

1,687,887. SCREW FRICTION LOCK FOR CANS. EUGENE M. PLETCHER, New York, N. Y. Filed Aug. 11, 1926. Serial No. 128,535. 1 Claim. (Cl. 220—40.)



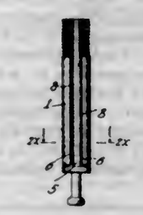
A closure structure comprising a container, provided with a mouth opening having a cylindrical wall, spaced lips depending from the edge of said wall, said lips having lower edges disposed parallel with the peripheral edge of said wall, the junction between the wall and the lips being convexly curved, and a cover having an annular flange contacting with the outer wall of the container, said cover having projecting beads provided with helically-disposed surfaces adapted to engage under the parallel edges of the lips, said surfaces being disposed substantially at or above the lower edge of the annular flange of the cover and contacting wedgingly with the lips of the container to insure a tight seal when the cover is in place.

1,687,888. LIQUID-FUEL BURNER. JAMES OTIS POST, Morristown, N. J. Filed July 16, 1926. Serial No. 122,899. 7 Claims. (Cl. 158—91.)



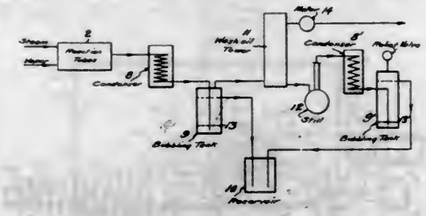
1. A hydrocarbon-burner comprising a base member provided with a centrally disposed basin for liquid fuel, a fuel supply pipe leading to said basin, said base-member having a series of outwardly-stepped concentric grooves, and a cap-member seated in one of said grooves to form a preheating chamber at the top, said cap-member being provided with orifices arranged below the plane of the outer edges of said groove within which the cap-member is seated.

1,687,889. MEANS FOR SECURING INDICATOR FACINGS TO INDICATOR BODIES. PHILIP E. PULVERMAN, New York, N. Y. Filed July 31, 1926. Serial No. 126,267. 2 Claims. (Cl. 73—111.)



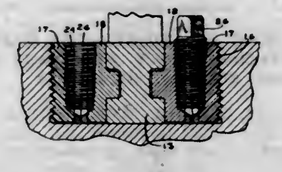
1. In an instrument of the character described, a body member having a pair of channels into which the opposed edges of an indicator facing are adapted to be inserted, one wall of each channel being adapted to be pressed against the edge inserted in said channel to secure the edge therein.

1,687,890. PRODUCTION OF HIGHER-BOILING-POINT HYDROCARBONS FROM LOW-BOILING HYDROCARBONS AND HYDROCARBON GASES. ALEXANDER S. RAMAGE, Detroit, Mich., assignor, by mesne assignments, to Gyro Process Corporation, a Corporation of Michigan. Filed May 13, 1925. Serial No. 30,027. 1 Claim. (Cl. 196—10.)



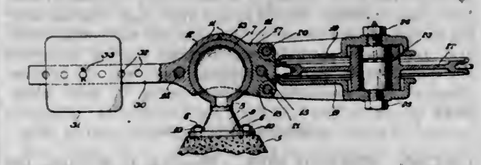
Process of converting low boiling point hydrocarbons into higher boiling hydrocarbons which comprises mixing a hydrocarbon vapor similar to the lighter fractions of casing head gasoline with steam and contacting the resulting mixture with ferrous oxid at a temperature of at least 600° C.

1,687,891. BLADE FASTENING. JAMES L. RAY, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1924. Serial No. 736,652. 7 Claims. (Cl. 253—77.)



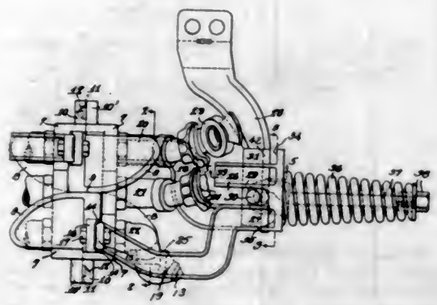
1. In a turbine, the combination of a rotor provided with an undercut groove, said groove having a widened portion for the insertion of blades in the groove, blades mounted in the groove, a blade mounted in the widened portion and having a root portion complemental to the undercut groove, a locking piece fitting the root portion of the blade, a filling piece fitting the widened portion of the groove, and wedge means between the locking piece and the filling piece for holding the locking piece, the filling piece and the blade in position.

1,687,892. SHEAVE SUPPORT. PERCIVAL K. REED, Llanerch, Pa., assignor to Atlas Conveyor Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1927. Serial No. 229,601. 5 Claims. (Cl. 254—190.)



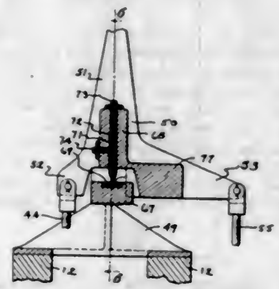
1. A sheave support comprising a spherical member, means for supporting the same, a bracket member having a portion complemental to and movably engaging the spherical member, a sheave supported by said bracket member, a rearwardly extending arm carried by said bracket member, and a counterbalance weight carried by said arm.

1,687,893. AUTOMATIC TRAIN-PIPE CONNECTER. EDWARD A. ROBINSON, Montreal, Quebec, Canada, assignor of one-half to himself and one-half to Ellison E. Workman, Montreal, Canada. Filed May 17, 1922. Serial No. 561,707. 6 Claims. (Cl. 285—24.)



1. In an automatic train pipe connecter, a bracket, a yoke supported by said bracket and having staggered legs extending therefrom, a head provided with staggered engaging prongs, terminals upon the legs having rib contact with the head back of the prongs and fastenings for holding the leg terminals to the head.
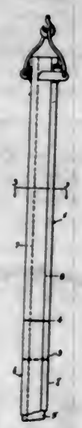
1,687,894. HOISTING AND WEIGHING MEANS. HORACE F. RUGGLES, Brooklyn, N. Y. Filed Feb. 15, 1923. Serial No. 619,164. 21 Claims. (Cl. 308—2.)



1. In a weighing device or scale, in combination a weight transmitting lever having a substantially horizontal arm and a substantially vertical arm, a knife-edge fulcrum bearing to receive downward strain upon the horizontal lever-arm, and a separate knife-edge fulcrum bearing to receive horizontal strain upon the vertical lever-arm, the fulcrum edges of said knife-edge bearings being in axial alignment.

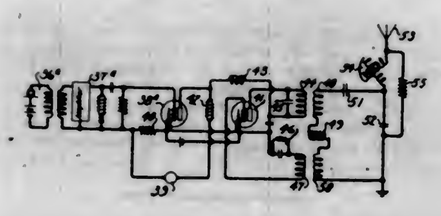
1,687,895. WELDED PIPE. WILLIAM E. RUPLEY, Los Angeles, Calif., assignor to Western Pipe and Steel Company of California, San Francisco, Calif., a Corporation of California. Original application filed Sept. 26, 1925, Serial No. 58,952. Divided and this application filed Aug. 5, 1926. Serial No. 127,353. 5 Claims. (Cl. 137—75.)

1. A stove pipe casing comprising an elongated inner tubular member and an elongated outer tubular member, the said inner member being concentrically positioned within the said outer member so that the end of the inner



member extends beyond the end of the outer member, and a welded longitudinal seam for securing the outer member to the inner member.

1,687,896. RADIO TRANSMITTING SYSTEM. FRANCIS M. RYAN, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1924. Serial No. 704,332. 2 Claims. (Cl. 250—17.)

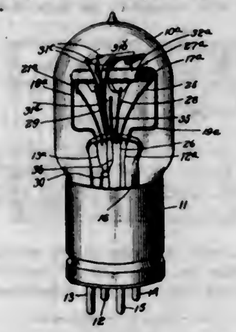


1. In combination, an antenna circuit tuned to the frequency of the wave to be radiated, a closed oscillatory circuit tuned to the frequency of the oscillations to be radiated by said antenna, said circuit including two series capacity elements of widely differing magnitudes the larger capacity element being common to said oscillatory circuit and said antenna circuit, and means for producing and transferring to said oscillatory circuit continuous oscillations of the frequency to be radiated comprising a space discharge device having a cathode, an anode and a grid, input and output circuits therefor coupled by said oscillatory circuit, whereby oscillations of the frequency to be radiated are readily transferred to said antenna circuit to the substantial exclusion of oscillations of higher frequencies.

1,687,897. RADIOTUBE. CONRAD SCHICKERLING, East Orange, N. J., assignor of one-half to Lillie E. Schickerling and Hortense Schickerling, East Orange, N. J. Filed Feb. 6, 1925. Serial No. 7,225. 3 Claims. (Cl. 250—27.5

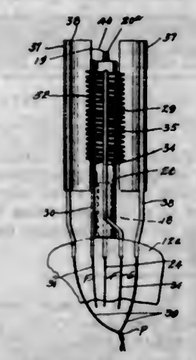
1. In a radio tube, the combination with filament, grid, and plate elements, of a fourth stabilising element to

eliminate objectionable tube noises, the stabilizing element being a plate disposed centrally and at right angles to



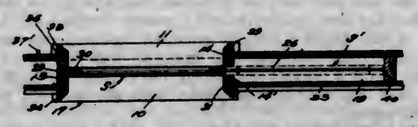
the first mentioned plate, and having electrical connection with the filament.

1,687,898. RECTIFIER TUBE. CONRAD SCHICKERLING, East Orange, N. J., assignor to Hortense Schickerling, East Orange, N. J. Filed June 3, 1925. Serial No. 34,530. 2 Claims. (Cl. 250—27.5.)



1. A rectifier tube comprising a plate element, a porous refractory tube impregnated with a metal of high chemical activity adjacent to the plate element, and a conductor within said refractory tube and spaced from the wall thereof, said plate and said conductor constituting respectively the cathode and anode.

1,687,899. SLIDING WINDOW. HARRY A. SCOPPETTONE, Seattle, Wash. Filed Oct. 7, 1926. Serial No. 139,993. 2 Claims. (Cl. 20—52.1.)

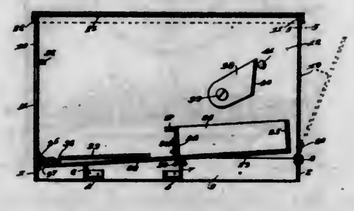


1. A window frame comprising stiles, and sill and head members secured to the lower and upper ends respectively of said stiles, said sill and head members each extending as a tongue element beyond the stile at one side of the frame for a distance approximating the distance between the stiles, said stiles and head members being formed to provide rabbets to receive boarding at the outer side of the frame.

1,687,900. METHOD OF SEASONING WOOD. FORREST STEBATOR SHINN, Galesburg, Ill. Filed Mar. 22, 1927. Serial No. 177,478. 6 Claims. (Cl. 34—24.)

1. A method of seasoning wood characterized by the facts that the wood is first subjected to steam and vacuum treatments, is then subjected to air pressure considerably higher than atmospheric pressure followed by quick release to atmospheric pressure, and is then again subjected to steam and vacuum treatments.

1,687,901. NEST STRUCTURE. CHARLES M. SHILLIAM, Spokane, Wash. Filed June 4, 1927. Serial No. 196,609. 3 Claims. (Cl. 119—50.)



1. In a nest structure, a housing having a door opening in the front wall thereof for ingress and egress of the bird, said housing being normally otherwise closed to ingress or egress of a bird, a nest box rearwardly from said opening and provided on its forward end with a perch and having a forwardly extending door operating bar, means fulcrumly supporting said nest box sufficiently rearwardly of said perch to cause the weight of the bird thereon to elevate said box and lower said bar and the weight of the bird causing said box to descend when sitting on said box, and a door for said opening hinged to swing inwardly and downwardly by gravity onto said bar to form a runway for the bird to walk from said opening toward said perch and box and from said box and perch outwardly through said opening.

1,687,902. CIRCUIT ALARM. MILTON H. SHOENBERG and LESTER SCHON, San Francisco, Calif.; said Schon assignor to said Shoenberg. Filed Mar. 10, 1924. Serial No. 698,014. 1 Claim. (Cl. 177—311.)

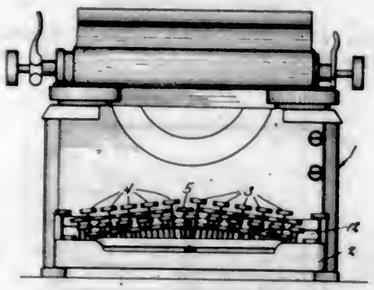


As an article of manufacture, a circuit alarm comprising a conductive casing adapted to form one leg of a circuit and having a socket on one side and a plug on the other side, an insulated connection in the plug and another insulated connection in the socket, an electromagnet in said casing connected between said connections, a fixed contact, an armature, for said magnet, a contact on said armature, means normally urging said contacts together, said contacts being connected between said casing and the insulated connection in the socket.

1,687,903. METHOD FOR THE PRODUCTION OF STYROL FROM CHLOR ETHYL BENZOL. OMAR H. SMITH, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Oct. 4, 1927. Serial No. 224,024. 7 Claims. (Cl. 260—168.)

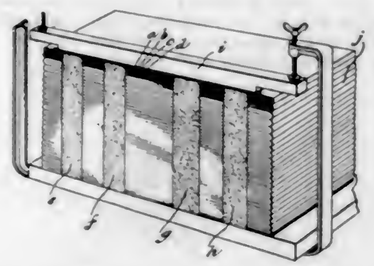
1. A method of producing styrol which comprises subjecting halogen containing alkyl benzols to decomposition temperatures, thereby splitting off hydrogen and halogen, collecting the liquid reaction products, and recovering styrol therefrom.

1,687,904. TYPEWRITER KEYBOARD. EMIL S. LARSON, Stanton, and FRANK L. DINSMORE, Prescott, Iowa. Filed Jan. 27, 1927. Serial No. 164,066. 4 Claims. (Cl. 197—98.)



1. A typewriter key-board having the keys of each transverse row of gradually increasing height from each end to the central portion of the row and having those keys upon each side of the transverse center of the board inclined toward the adjacent side of the board, and means to guide said keys upon actuation in planes perpendicular to the planes of the inclination of the rows.

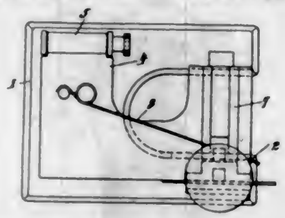
1,687,905. METHOD OF MAKING CONTINUOUS MANIFOLD FORMS. RALPH C. STEVENSON, Brooklyn, N. Y., assignor, by mesne assignments, to Gilman Fanfold Corporation, Limited, Niagara Falls, N. Y., a Corporation of Ontario, Canada. Filed Apr. 25, 1924. Serial No. 708,840. 2 Claims. (Cl. 281—5.)



1. The herein described method of making continuous manifold forms consisting in longitudinally folding a plurality of superimposed, unconnected, previously printed strips having printed matter thereon with the blank spaces on different strips in registering relation one with the other, in a stack, with an edge of different portions thereof in alinement, compacting the stack thus formed, applying padding adhesive to said edge, and thereafter separating each fold of the strips or webs forming the parts of a manifold form from the adjacent folds of the strips.

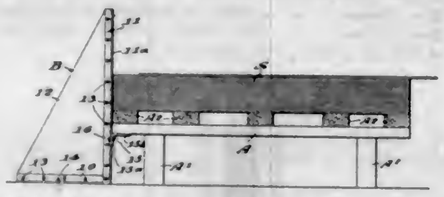
1,687,906. MACHINE FOR FIXING CLASPS. PAUL SWITZENY, Vienna, Austria. Filed May 26, 1927, Serial No. 194,435, and in Austria June 1, 1926. 2 Claims. (Cl. 1—3.)

1. A machine for fixing U-shaped clasps on a package, comprising in combination a bed-plate having a recess therein providing two spaced arms, a top-plate hinged to the bed-plate at one corner thereof, a clasps-guide arranged on the top-plate and disposed at a right angle with respect to the axis of rotation of the said top-plate, a head provided with a driver secured to the top-plate and disposed laterally with respect to the axis of rotation of the



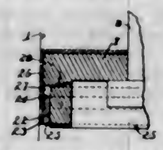
said top-plate above that arm of the bed-plate which is most remote from the said axis of rotation, and a die secured to the bed-plate arm last mentioned.

1,687,907. STACKING BRACE. ERNEST W. SYSTROM and JAY F. WARREN, Detroit, Mich., assignors to Robert T. Romine, Mount Clemens, Mich. Filed June 16, 1927. Serial No. 199,356. 10 Claims. (Cl. 214—6.)



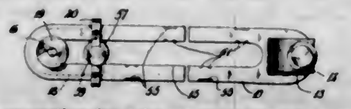
1. A stacking brace for aligning metal sheets when stacked on a table or platform, comprising an upright member adapted to abut against a side edge of the table, and an angle secured to said member and having a horizontal flange adapted to extend beneath the floor of the table in engagement therewith.

1,687,908. PISTON. GUY B. TIBBOT, Santa Cruz, and FREDERICK R. COOK, San Jose, Calif. Filed Oct. 19, 1926. Serial No. 142,647. 1 Claim. (Cl. 74—109.)



A piston comprising a piston head having an annular shoulder formed in its outer and lower edge, a cup leather mounted on the head and extending downwardly to overlap the said shoulder, an unbroken ring having its outer surface bevelled upwardly and inwardly toward the bottom of the shoulder slidably mounted on the piston head and extending beneath the adjacent edge of the cup leather, and a conduit connecting the chamber formed by the ring, cup leather and piston with the working face of the piston.

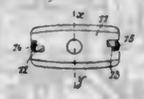
1,687,909. JOINT FOR COAL-MINING DRILLS. TONY TUBBIS, New Kensington, Pa. Filed Oct. 22, 1924, Serial No. 745,139. Renewed July 20, 1927. 2 Claims. (Cl. 287—103.)



1. A connection for a brace, comprising an arm having a longitudinal slot therein and spaced apart notches communicating therewith, a yoke-piece mounted on said

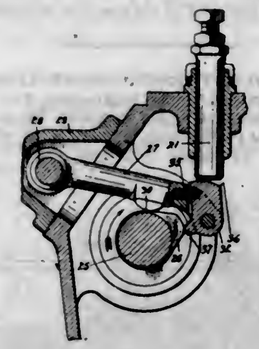
arm comprising a bracket for connecting a bit therewith, an eccentric disc disposed in the longitudinal slot of said arm and suspended from said yoke piece, projections on said disc, and a spring carried by said yoke-piece and urging said disc downwardly to cause the projections thereof to engage in the notches of said arm for retaining said bracket and the bit thereon in a fixed position relative to said arm.

1,687,910. SAFETY RAZOR. RENÉ-MAX VALABRÈGUE, Paris, France, assignor to Le Rasoir Apollo, Paris, France. Filed Jan. 7, 1925, Serial No. 1,006, and in France Dec. 2, 1924. 5 Claims. (Cl. 30—12.)



1. In a safety razor, the combination with a holder having two axes of symmetry at right angle to each other and positioning studs asymmetrically arranged with regard to said axes, of a blade having corresponding asymmetrical cut-out portions cooperating with said studs and also symmetrical cut-out portions.

1,687,911. INTERNAL-COMBUSTION ENGINE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 8, 1924. Serial No. 742,372. 13 Claims. (Cl. 123—90.)



12. In an internal combustion engine, in combination, a poppet valve, a valve tappet therefor, pivoted means for operating the valve, and means associated with said operating means and adapted to be moved into and out of engagement with the tappet for operating the tappet and valve and for taking up the clearance when the valve is seated.

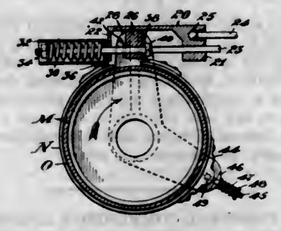
1,687,912. INSULATED CONDUCTOR. EDMUND B. WHEELER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 27, 1924. Serial No. 702,176. 1 Claim. (Cl. 173—264.)

An insulated electric conductor comprising a conductor, a thin inner coating of baked enamel and a thin outer coating of vulcanized rubber, said enamel being too thin to alone serve as a sufficient insulating coating but sufficient to protect the conductor from the deleterious action of the ingredients of said rubber and the said rubber alone being too thin to afford sufficient resistance to moisture



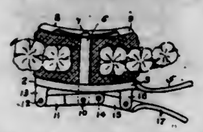
but thick enough in combination with said enamel to produce a satisfactory insulation of great thinness and flexibility.

1,687,913. AUTOMATIC BRAKING DEVICE FOR AUTOMOBILES. ALFRED N. WHITE, Los Angeles, Calif. Filed May 19, 1925. Serial No. 31,301. 4 Claims. (Cl. 188—167.)



3. An automatic braking device comprising a brake drum, a brake band, a guide bar, a fixed support for said bar, means for securing one end of the brake band to said guide bar, a spring coiled upon said bar and adapted for action on the other end of the brake band, and means for moving the last mentioned end of the brake band in opposition to said spring.

1,687,914. DENTAL IMPRESSION DEVICE. JOEL O. WILDER, Jr., Berkeley, Calif. Filed Oct. 30, 1926. Serial No. 145,108. 2 Claims. (Cl. 32—6.)

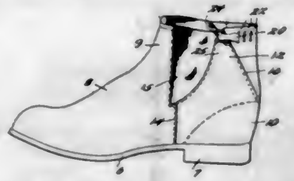


1. A dental device comprising a base plate; a stem passing through said base plate; a compression plate fixed upon said stem; a toggle mounted upon said base plate and engaging said stem.

1,687,915. SHOE. JAMES E. WILLIAMS, Spring City, Pa. Filed Sept. 17, 1927. Serial No. 220,205. 2 Claims. (Cl. 36—50.)

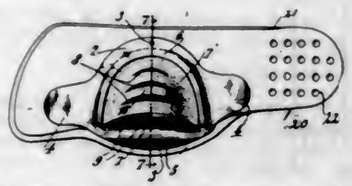
1. In a shoe, an upper, a seamless heel portion and an ankle portion formed integral with each other, said heel portion extending to and being secured to the upper at the sides of the shoe, side portions of elastic material secured between the said ankle portion and the corresponding portion of the upper, the said ankle portion being provided with a slit extending downwardly from its top edge and dividing it into separable parts, a flap arranged

inside the shoe and secured to the ankle portion on one side of the slit and overlapping the slit, and a fastening



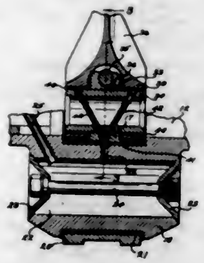
which operates to contract the ankle portion of the shoe upon the ankle of the wearer without pulling upon the flap.

1,687,916. ARCH SUPPORT. FRANK WOLF, New York, N. Y. Filed July 7, 1923. Serial No. 649,906. 3 Claims. (Cl. 36—71.)



1. An arch support comprising a support plate provided with yielding ends, a rigid flange projecting downwardly from the central portion of said plate and curved substantially semi-circular, said flange maintaining the plate from flexing about a longitudinal axis and permitting the ends of the plate to flex on a transverse axis, and a pad having edges fitted into said flange and lying against the under side and central portion of said plate.

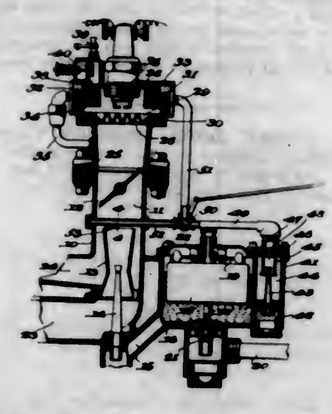
1,687,917. INTERNAL-COMBUSTION ENGINE. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 2, 1925. Serial No. 40,982. 4 Claims. (Cl. 74—17.)



1. In an internal combustion engine, the combination of a crank shaft having a crank pin, a connecting rod having an end adapted to bear on said crank pin, a bearing cap for said end of the connecting rod, studs threaded into said end of the connecting rod and riveted in place, said studs forming dowels for said cap, and nuts for said studs for retaining the cap in place on the connecting rod end.

1,687,918. HYDROCARBON MOTOR. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 18, 1919. Serial No. 331,691. 21 Claims. (Cl. 123—122.)

1. In a hydrocarbon motor, the combination with a motor intake pipe having an opening therein, of a combustion heater secured to said pipe and having an opening registering with the opening in said pipe, and a cor-

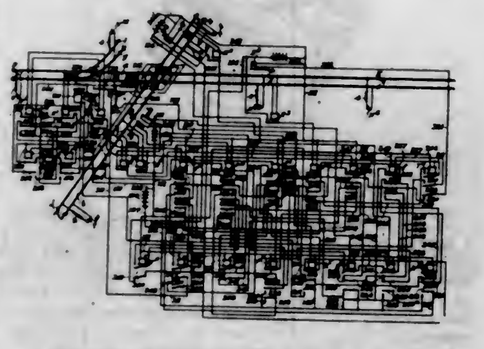


rugated plate forming a wall separating the combustion chamber from the interior of the intake pipe.

1,687,919. PROCESS OF MAKING SILICA GEL. MAX YABLICK, Newark, N. J. Filed Mar. 10, 1922. Serial No. 542,744. 5 Claims. (Cl. 23—182.)

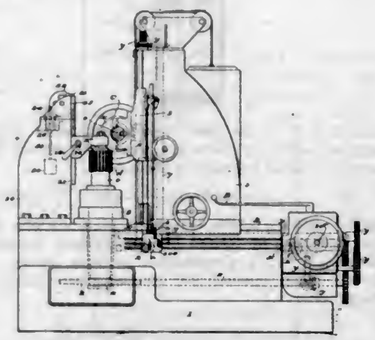
1. In a process of preparing silica gel, setting free silicic acid and forming a colloidal solution thereof by adding to a solution of a soluble silicate a sufficient quantity of an ammonium salt which will react therewith, free the silicic acid therefrom and yield an alkaline liquor, allowing the silicic acid to gel in the presence of the alkaline liquor resulting in the reaction, washing and then drying the gel.

1,687,920. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HENRY S. YOUNG, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 18, 1924. Serial No. 687,030. 19 Claims. (Cl. 246—114.)



1. In combination, two intersecting railway tracks, traffic governing apparatus for at least one of said tracks controlled by traffic conditions on said one track and capable of assuming a more and a less restrictive condition, and means for changing such apparatus to or holding it in the more restrictive condition when a train moving in one direction and approaching the crossing on the other track is at a comparatively long distance therefrom and for releasing said apparatus when a train moving in the opposite direction and receding from the crossing on such other track is at a comparatively short distance therefrom.

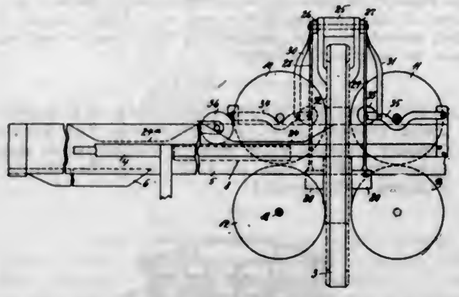
1,687,921. HOBBER WITH QUICKLY-DEMOUNTABLE ARBOR SUPPORT. WILLIAM F. ZIMMERMANN, Maplewood, N. J. Filed June 16, 1925. Serial No. 37,447. 12 Claims. (Cl. 90—1.)



1. In combination, a supporting member, a supplemental member movably supported thereon; a bearing member slidingly fitted to said members and adapted to be shifted from said supporting member to said supplemental member; means to lock said supplemental and supporting members; and means rendered effective simultaneously with the shifting of said bearing member to render said locking means ineffective.

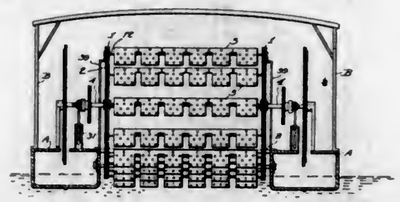
10. A machine-tool combining a support, a supplemental member movably mounted on said support; a bearing member slidingly fitted to said support and to said supplemental member and adapted to be shifted from said support to said supplemental member; means to clamp said bearing member to said support; a single lever for controlling the action of said clamp, said lever also affording means to manually shift said bearing member to said supplemental member and means so to adjust said clamping means that the locking position of said lever is maintained constant.

1,687,922. APPARATUS FOR FILLETING FISH. RUDOLPH BAADER, Lubeck, Germany. Filed Nov. 30, 1927, Serial No. 236,816, and in Germany Sept. 28, 1927. 17 Claims. (Cl. 17—3.)



1. In a filleting machine, primary and secondary pairs of rotary cutters for action respectively on opposite sides of the line of the backbone of the fish, a fish supporting carriage movable relatively to the cutters to present the fish successively to the action of the respective pairs of cutters, and means for controlling the cutters of each pair so as to cause one cutter of each pair to cut vertically from above downward to a certain depth for a portion of its cut and then to cut to a lesser depth for the remainder of its cut and simultaneously causing the other cutter of the same pair to first cut vertically upward for a portion of its cut in the plane of the coacting cutter and to then cut at an upward and inward oblique angle to the vertical during the remainder of its cut.

1,687,923. CURRENT MOTOR. CARL J. BAER, St. Louis, Mo. Filed Mar. 12, 1924. Serial No. 698,691. 8 Claims. (Cl. 170—84.)

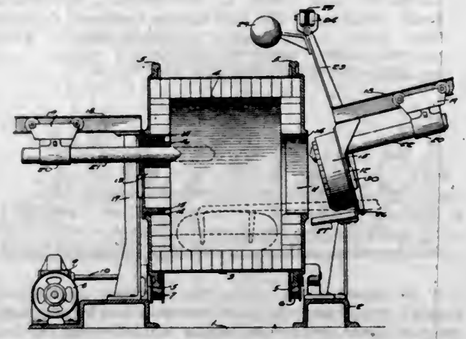


1. A paddle for current motors, comprising a member adapted for contact by the current and provided with a plurality of elongated water-passages extending inwardly from one of its marginal edges, and a plurality of apertures extending through said member, on each side of said passages.

1,687,924. BEARING ALLOY. CHRISTOPHER H. BIERBAUM, Buffalo, N. Y., assignor to Lumen Bearing Company, Buffalo, N. Y., a Corporation of New York. Filed June 4, 1926. Serial No. 113,829. 1 Claim. (Cl. 75—1.)

A bearing consisting of an alloy containing 84.5 percent copper, 10.5 percent of tin, and 5 percent of nickel; said alloy being cast in the absence of zinc against a chill so that the alpha crystal is not hardened but left soft and a large amount of hard delta crystal is formed upon the chilled surfaces, and a wide range of hardness being present between the hardest delta crystal and the softest alpha crystal.

1,687,925. METALLURGICAL FURNACE. ARTHUR J. BRIGGS, Syracuse, N. Y., assignor to Onondaga Steel Company, Inc., a Corporation of New York. Filed Oct. 16, 1926. Serial No. 141,912. 10 Claims. (Cl. 266—1.5.)

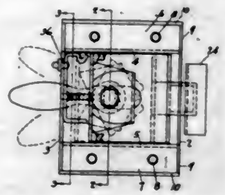


1. A metallurgical furnace comprising a rotatably mounted cylindrical working chamber, having an end opening, a relatively stationary door adapted to substantially close said opening, said door having an opening through which heating means may be advanced into or withdrawn from said chamber, means for permitting the rotation of said chamber about said door as an axis and means for withdrawing said door from said end opening and swinging it laterally away from said opening.

1,687,926. LATCH AND DOGGING MEANS THEREFOR. HARLEY BROOMHALL, Shelby, Ohio, assignor to The Shelby Metal Products Company, Shelby, Ohio, a Corporation of Ohio. Filed Apr. 23, 1926. Serial No. 104,134. 6 Claims. (Cl. 292—169.)
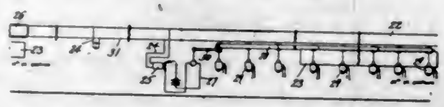
1. In a latch, a body, a latch member slidable in the body, means for securing the latch member in projected or re-

tracted position relative to the body, and spring means co-operating with said latch member and with said securing



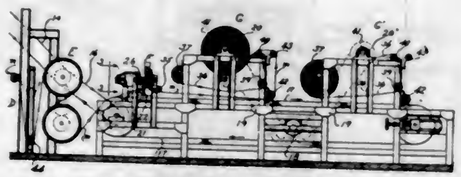
means and serving to normally project the latch member relative to the body and to hold the securing means against casual displacement.

1,687,927. MEANS FOR APPLYING TO USEFUL PURPOSES THE ENERGY DEVELOPED THROUGH THE MOMENTUM OF MOVING TRAINS. BENJAMIN B. BRYAN, Jr., New York, N. Y. Filed July 9, 1926. Serial No. 121,300. 2 Claims. (Cl. 246—245.)



1. The combination with a railway and a train movable thereon, of an electrical generator located adjacent a section of said railway, transmission means extended along said section and movable with the train, means actuable by an approaching train to set said transmission means in motion, and co-acting means between said train and transmission means for the operation of said generator by the train momentum.

1,687,928. AUTOMATIC CUTTING DEVICE. MARTIN CASTRICUM and PERCY L. BUTTERFIELD, Springfield, Mass., assignors to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Nov. 13, 1925. Serial No. 68,839. 4 Claims. (Cl. 242—56.)



1. An apparatus for cutting into lengths a continuously supplied web of material being furnished at a substantially constant speed, comprising means for delivering the material from the cutting point, a floating roll constructed to take up slack between the supply and the delivery of the material and normally to control by its position the speed of the delivery, means for temporarily accelerating the delivery, means controlled by the approach of the floating roll to its upper limit for arresting the delivery, means similarly controlled for cutting the material while its motion is thus arrested, and means controlled by the approach of the floating roll to its limit for restarting the delivery in normal operation.

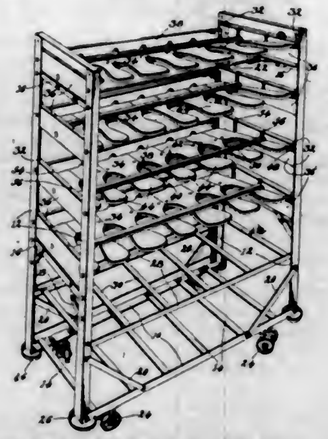
1,687,929. TORPEDO CASING. CLEMENT CIMOROSI, Elkton, Md., assignor to Alberto Cimorosi, Elkton, Md. Filed Apr. 8, 1927. Serial No. 181,939. 1 Claim. (Cl. 229—5.6.)

A torpedo casing consisting of a tube of substantially greater length than the torpedo for which it is designed, the free ends of the tube being bent inwardly at a right angle to the axis of the tube then outwardly with the edge of the outwardly bent portion engaging the interior



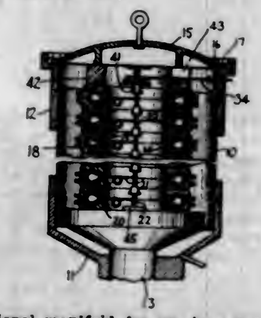
cylindrical wall of the tube thereby providing a flat top covering substantially the entire area of the end of the tube but leaving a small opening in the center.

1,687,930. SHOE RACK. WARREN E. COOMBES, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 19, 1926. Serial No. 123,386. 10 Claims. (Cl. 211—36.)



1. A shoe rack comprising a plurality of shoe-supporting members, a shoe-positioning member, and means for locating the positioning member relatively to the shoe-supporting members in positions for contacting with different portions of shoes carried in the rack at different stages of their manufacture for maintaining the shoes in position upon the supporting members.

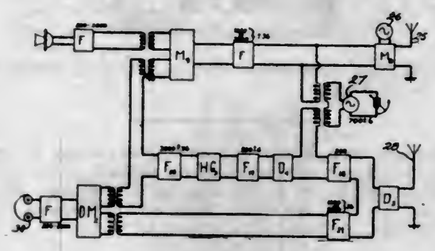
1,687,931. HEATER CONNECTION. WILLIAM E. EDGETT, Indian Orchard, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Nov. 16, 1922. Serial No. 601,217. 3 Claims. (Cl. 18—17.)



1. A sectional manifold for use in a vulcanizing press comprising a series of loosely assembled sections adapted to rest on one member of the press, the uppermost section

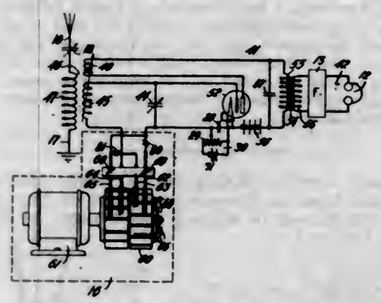
being connected to a source of fluid pressure and provided with a yielding member positioned to engage the other press member upon closing of the press to force the sections into fluid tight relation.

1,687,932. SECRET SIGNALING. JOHN F. FARRINGTON, Flushing, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 2, 1923. Serial No. 648,887. 16 Claims. (Cl. 178—44.)



1. The method of secret signaling comprising modulating a carrier wave by the signal to be transmitted to produce side bands of signaling-frequency width, and causing the side band frequencies to vary cyclically in frequency with respect to the carrier frequency.

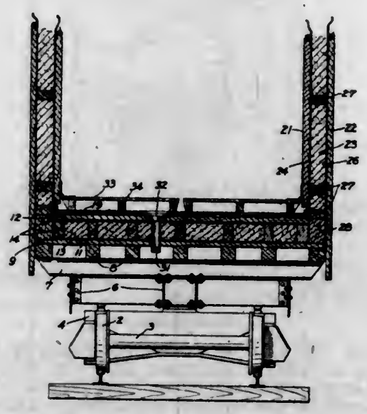
1,687,933. ELECTRICAL SIGNALING SYSTEM. JOHN F. FARRINGTON, Flushing, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 25, 1923. Serial No. 670,694. 5 Claims. (Cl. 250—20.)



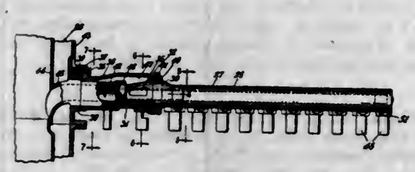
1. In a signal receiving system, an electric discharge device, circuit connections therefor, for rendering said device capable of building up oscillators, means for impressing received signal waves on said device, a substantially non-inductive resistance element, and a mechanical interrupter for controlling the connection of said resistance in the circuit of said device whereby the amplitude of the built up oscillations is controlled in accordance with said received signal waves.

1,687,934. REFRIGERATOR-CAR CONSTRUCTION. DOZIER FINLEY, Berkeley, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed May 17, 1926. Serial No. 109,541. 5 Claims. (Cl. 105—423.)

1. In a car construction, a floor comprising an upper and a lower sheathing, an insulated filling interposed between said upper and lower sheathing, a sheet saturated with semi-solid material and secured to said upper sheathing, and a bitumen coated fibrous sheet secured to said first mentioned sheet and forming the wearing surface of the floor.



1,687,935. FURNACE RABBLE ARM. EDWARD J. FOWLER, Redwood City, Calif., assignor to Nichols Copper Company, New York, N. Y., a Corporation of New York. Filed Mar. 19, 1927. Serial No. 176,592. 13 Claims. (Cl. 263—26.)



1. A rabble arm comprising a plurality of sections each having individually demountable rabble teeth mounted in fixed position along the sections, and quick-detachable connecting means for the sections.

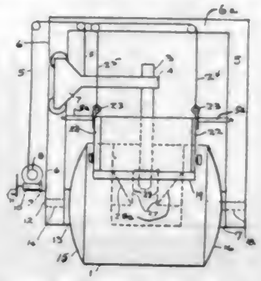
1,687,936. ELECTRIC FURNACE AND METHOD OF OPERATION. ALBERT E. GREENE, Medina, Wash. Filed May 18, 1925. Serial No. 31,214. 3 Claims. (Cl. 75—22.5.)

1. The method of making and finishing a heat of steel in an electric arc furnace, said method consisting in producing a bath of molten steel in the furnace and a covering of slag, and after the steel is all melted and ready for the finishing deoxidising treatment, adding a shovel of silica sand under an electrode on top of the slag and adding a carbonaceous reducing agent on top of the sand thus added and subjecting the mixture to the heat of the arc until silica is reduced and the steel underneath is deoxidized and finished.

1,687,937. ELECTRIC FURNACE AND ELECTRODE CRANE. ALBERT E. GREENE, Medina, Wash. Filed Nov. 20, 1920, Serial No. 425,470. Renewed May 12, 1923. 14 Claims. (Cl. 266—1.5.)

1. In combination a movable electric heating furnace, a carrier therefor, electric conductors along the line of said

carrier, movable electric current contacting members attached to said furnace said contact members maintaining



electrical connection between the furnace members and the source of supply of current.

1,687,938. METHOD OF PRODUCING COILS OF FLEXIBLE MATERIAL AND COILS AND CORE MEMBERS RELATING TO SAME. ROBERT MCC. JOHNSTONE, Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 22, 1926. Serial No. 150,124. 4 Claims. (Cl. 242—68.)



3. As a new article of manufacture a core member having unreduced portions and partly severed portions, the latter at points in spaced relation corresponding to the width of sections of flexible material to be wound on the unreduced portions of the core member.

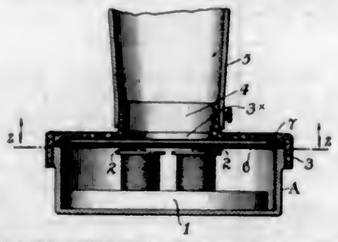
1,687,939. TYPEWRITING MACHINE. ROBERT MCKEAN JONES, Stony Point, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed May 19, 1927. Serial No. 192,656. 9 Claims. (Cl. 197—100.)



1. In a typewriting machine for writing the Japanese katakana alphabet, a keyboard and type bar system wherein the characters employing the same vowel sound are arranged substantially vertically or up and down in the keyboard.

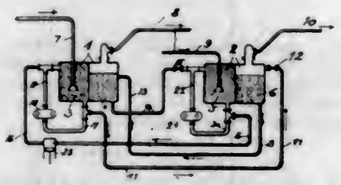
1,687,940. SOUND TRANSMITTING AND RECEIVING APPARATUS. AUBREY M. KENNEDY, New York, N. Y. Filed Mar. 6, 1926. Serial No. 92,084. 3 Claims. (Cl. 179—124.)

1. In sound transmitting and receiving apparatus, a casing having a sound discharge aperture, a metallic diaphragm within the casing and a thin leather material under tension and held in said casing adjacent the metallic diaphragm and co-extensive with its exposed area so as to com-



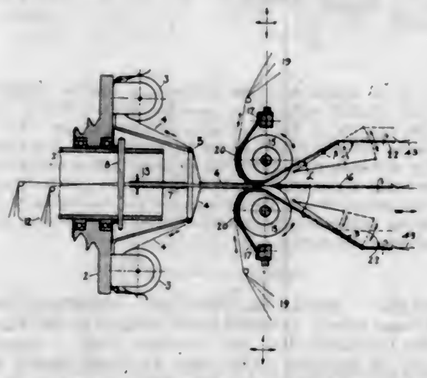
pletely shield the discharge outlet from the direct vibrations of the diaphragm.

1,687,941. STEAM AND OTHER VAPOR POWER PLANT UTILIZING CAUSTIC SODA OR OTHER AUXILIARY FLUIDS. ERNST KOENEMANN, Berlin, Germany. Filed Nov. 10, 1925, Serial No. 68,241, and in Germany Nov. 12, 1924. 2 Claims. (Cl. 122—21.)



1. An apparatus of the character described, comprising in combination, a mixing vessel and an evaporator disposed in contiguous relation to each other, said mixing vessel being adapted to contain an auxiliary fluid, means for introducing a vapor under pressure into said mixing vessel, means in communication with said evaporator for discharging steam therefrom, a main circulatory system between said mixing vessel and evaporator whereby the fluid in the mixing vessel is caused to flow into the evaporator and thence back into the mixing vessel, and a subsidiary circuit for causing circulation of the fluid in said mixing vessel, said subsidiary circuit being in communication with said main circulatory system.

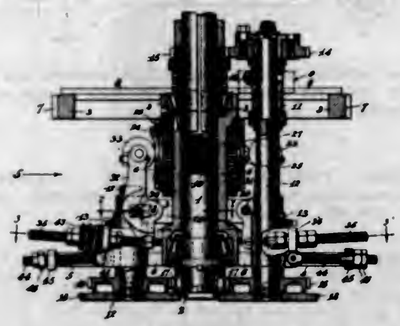
1,687,942. CHENILLE-MAKING MACHINE. EMMERICH KRIEGL, Glauchau, Germany. Filed Mar. 28, 1927, Serial No. 179,142, and in Germany May 7, 1926. 19 Claims. (Cl. 117—14.)



11. In a winding and twisting machine for simultaneously making numerous chenille strands, comprising means for winding a pile-forming thread; means for laying a series

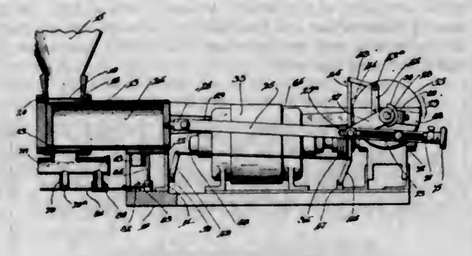
of opposed inner and outer warp threads for said windings and jointly feeding the same; a series of cutting devices for said windings in the feed path between each pair of warps; and a separate twisting device for each pair of warps; a receiving form for said windings having inner warp guiding projections extending between said cutting devices, and outer warp guides having similar projections co-extending with said first named projections and in spaced relation to the latter, the opposed surfaces of said projections being reversely curved.

1,687,943. SEAMING MACHINE. PAUL H. LANGE, Bridgeport, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a Corporation of New York. Filed Oct. 14, 1926. Serial No. 141,492. 6 Claims. (Cl. 113—24.)



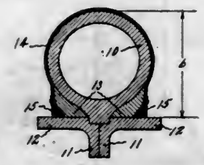
1. The combination with a tiltable seaming tool shaft pivotally supported at one end and slidingly supported at the other, of pivotally supported levers, cams to actuate said levers, connections extending from said levers to the slidably mounted end of the shaft, and spring means to normally urge the levers and thereby the slidable end of the shaft in one direction, and spring means admitting of movement of the slidable end of the shaft in the same direction independently of the movement of the levers.

1,687,944. FILLING MACHINE. JOHN R. LITTY and TRUED B. LUNDIN, Philadelphia, Pa. Filed Mar. 19, 1927. Serial No. 176,671. 13 Claims. (Cl. 107—29.)



1. A measuring machine including a frame; a measuring cylinder mounnted thereon; a piston movable in the cylinder; a shaft rotatable in the frame and mechanically connected to the piston; means for actuating the shaft; a member rotatable upon the shaft and having notches; means for imparting rotation thereto; an arm fixed to the shaft, a dog mounted on the arm and adapted to engage the notches, a trip adapted to engage the dog and move it out of engaging position, and means for actuating the trip.

1,687,945. TIRE BUILDING. MELVON ANDREW MARQUETTE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 8, 1925. Serial No. 28,759. 3 Claims. (Cl. 154—14.)



1. A method of making tires which comprises stretching successive layers of material in band form over a yieldable former, carrying the successive layers down the sides of the former in a plane substantially tangent to the widest part of the former, anchoring the sides of each layer to the bead diameter and in said plane before applying the next layer, and expanding the tire during vulcanization to tension the material, whereby a lesser tension is imparted to the inner layers of material than to the outer layers.

1,687,946. APPARATUS FOR CHECKING THE PROFILES OF GEAR WHEELS, THE PITCH OF SCREWS, AND SIMILAR ARTICLES. GEORGES MASSIOT, Paris, France. Filed Feb. 13, 1925, Serial No. 9,044, and in France Feb. 20, 1924. 1 Claim. (Cl. 88—24.)

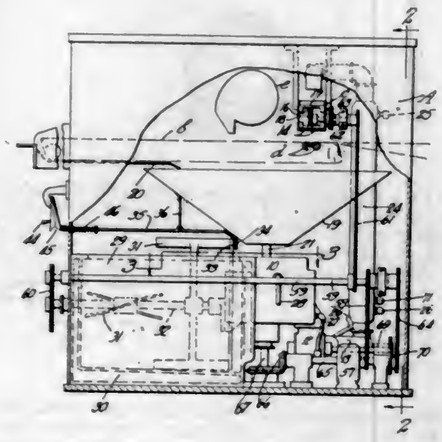


An apparatus for checking the profiles of gear-wheels, pitches of screws and similar articles, comprising in combination with the opaque metal element to be examined, a source of light, a device for condensing the light-rays, an objective, a lens for concentrating the light rays towards said objective, a concave mirror having a hole at the centre and arranged close to said objective opposite to said source of light, and means for reflecting the direct light-rays sent out by said source of light by said mirror and then by said opaque metal-body which is examined and which reflects the entire bushel of light-rays towards said objective.

1,687,947. CONFECTION-COATING MACHINE. WILLIAM A. MOIR, Halifax, Nova Scotia, Canada. Filed Aug. 9, 1926. Serial No. 128,193. 7 Claims. (Cl. 91—3.)

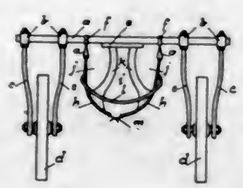
1. Apparatus for conditioning chocolate and the like, comprising, containing means for a body of chocolate to be maintained at a predetermined degree of viscosity, a container for chocolate of a different viscosity, and means

responsive to variations in viscosity of the chocolate in said containing means to transfer chocolate from said container to said containing means.



7. Apparatus for conditioning chocolate and the like, comprising, a container for a body of chocolate to be maintained at a given degree of viscosity, a container for a supply of chocolate of a different degree of viscosity, and means responsive to variations in viscosity of the chocolate in the first container to convey chocolate thereto from the second container.

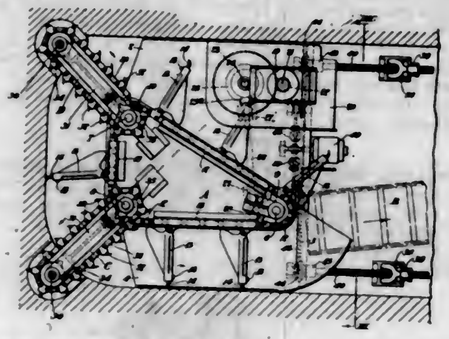
1,687,948. PORTABLE WEEDING DEVICE. ANTON JOHANNES OLSEN, Sollsted, Lolland, Denmark. Filed June 2, 1926, Serial No. 113,310, and in Denmark June 25, 1925. 1 Claim. (Cl. 97—1.)



A portable device for facilitating weeding, comprising, in combination, an oblong frame extending at right angles with respect to the direction of movement of the device, wheels supporting said frame at its short sides, and a two-parted body carrier suspended from the mid-portion of said frame and adapted to receive the front-portion of the upper body of the respective farm-hand, each body carrier portion having a forwardly and upwardly directed extension connected with the said frame at its free end, substantially and for the purpose set forth.

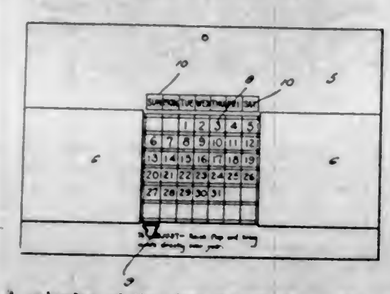
1,687,949. HEADING MACHINE. EDWARD O'TOOLE, Gary, W. Va. Filed Aug. 21, 1926. Serial No. 130,712. 8 Claims. (Cl. 262—9.)

8. A mine heading machine comprising a main frame, sprocket-wheels mounted thereon, a cutter chain trained about said sprockets for undercutting the face to form a kerf, side wall cutters journaled in supporting arms projecting from the opposite sides of the main frame, and



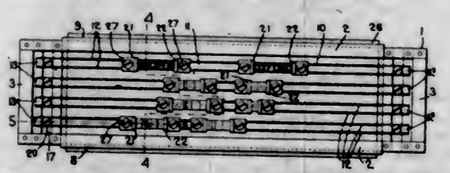
means including at least some of said sprockets and said cutter chain for operating said side wall cutters simultaneously with said cutter chain.

1,687,950. PERPETUAL CALENDAR. CLARENCE E. PALMER, Fayetteville, Ark. Filed July 26, 1927. Serial No. 208,602. 3 Claims. (Cl. 40—109.)



2. A calendar of the class described including a base card, a pair of cards including folds and hingedly engaged in spaced relation with the base card, a slidable card mounted to slide in the folds of said pair of cards, a tab extending from one edge of the slidable card to abut said pair of cards to limit the movement of the slidable card and to provide means for manually shifting said slidable cards, said base card having indicia thereon indicative of the days of the week and columns having therein indicia indicative of a plurality of years, said slidable cards having mounted on one face indicia indicative of the days of the month and on the other face indicia indicative of the months of the year.

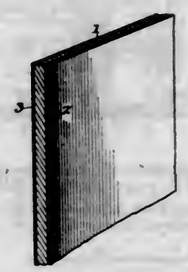
1,687,951. TYPE CHASE. CARL E. PUTNAM and FRED A. PUTNAM, Keene, N. H., assignors to Markem Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 13, 1924, Serial No. 698,869. Renewed Apr. 10, 1928. 3 Claims. (Cl. 101—368.)



1. In a type chase, the combination with a skeleton frame, of a plurality of separately-adjustable type-carrying bars carried thereby, each bar comprising two rigidly

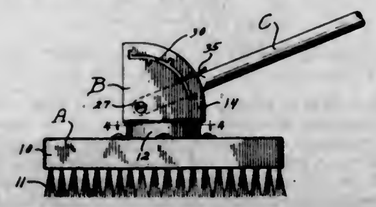
connected parallel strips forming between them a type-receiving slot open at both the top and bottom of the bar, type elements adapted to be inserted in said slots, each type element having positioning shoulders to rest on the upper edges of the strips and being of a length to project through the slot and below the bar, and word gauges adjustably carried by the bars for determining the position of the type for printing any word.

1,687,952. METHOD OF MAKING COMPOSITE PANELS FOR METAL FURNITURE. JACOB STANDER, Brooklyn, N. Y. Filed June 28, 1928. Serial No. 289,067. 4 Claims. (Cl. 154—2.)



1. A method of making a composite panel comprising a member of cellulosic material and a metal facing, which consists in first treating the cellulosic member to harden the same, then treating one face of said facing and said cellulosic member when dry with a phenol resin varnish, applying under pressure said facing to the member while wet and baking the same at a high temperature.

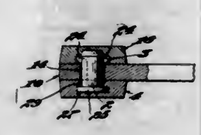
1,687,953. HANDLE MOUNTING FOR BRUSHES. OBIE W. STARKS, Clearfield, Pa. Filed Dec. 16, 1926. Serial No. 155,253. 4 Claims. (Cl. 306—12.)



1. In a handle mounting for brushes, an attaching cap for connection with the brush head and provided with an arcuate shaped slot and notches opening into the slot, a quadrant, means mounting said quadrant upon the attaching cap so that it may be rotated and tilted with respect to said cap, a key rigidly carried by said quadrant having a portion extending into said arcuate slot and provided with an ear for engaging in any one of said notches upon tilting, rotating and returning said quadrant to said cap for locking the quadrant at various degrees of rotation upon the attaching cap, and a handle connected to said quadrant.

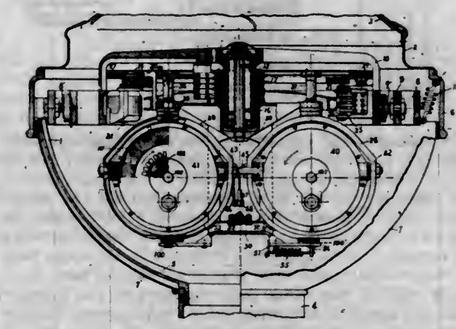
1,687,954. OPHTHALMIC MOUNTING. FREDERICK ARTHUR STEVENS, Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Original application filed May 8, 1920, Serial No. 379,788. Divided and this application filed Apr. 24, 1924. Serial No. 708,695. 10 Claims. (Cl. 88—53.)

1. A temple end piece having a dowel adapted to be received in the opening of a temple ear when the ear is positioned over the dowel with one face thereof in contact with the end piece, and a yielding shoulder projecting from the dowel adapted to be engaged by the ear to maintain the temple in position upon the dowel, the shoulder being adapted to yield to permit removal of the temple from the dowel.



6. An ophthalmic mounting having, in combination, two end pieces each provided with an opening extending from a face thereof part way into the end piece, a post secured in one of the openings and extending into the other opening, and a temple mounted over the post.

1,687,955. GYROSCOPIC COMPASS. HARRY L. TANNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed June 28, 1916. Serial No. 106,360. 16 Claims. (Cl. 33—226.)



1. The combination with a frame mounted for rotation about a vertical axis, a plurality of interconnected gyroscopes mounted thereon for rotation about vertical axes within the frame, and means responsive to relative movement about their individual vertical axes for exerting a torque about the axis of said frame.

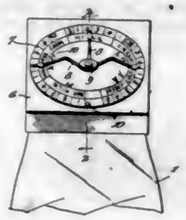
11. In gyroscopic apparatus, a main support, a pair of rings mounted thereon for movement about parallel axes, a rotor and rotor bearing frame mounted within each ring for oscillation about an axis at an angle to said parallel axes, and resilient damping means connected to a bearing frame which applies a torque about the said parallel axes of the gyroscopes upon tilting of said frame about said second mentioned axis.

14. A gyro-compass comprising in combination two gyroscopes, one in stable and one in unstable equilibrium, and viscous damping means acting about the vertical axes of the gyroscopes.

1,687,956. MILK-BOTTLE INDICATOR AND COIN HOLDER. GLENN W. TRASK, Green Bay, Wis. Filed Apr. 5, 1928. Serial No. 267,678. 6 Claims. (Cl. 116—121.)

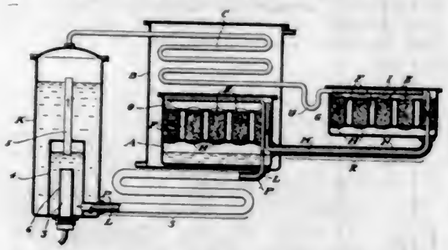
1. A device of the character specified comprising a bottle engaging portion including a top and sides, the latter being

downwardly converged from the top and having an intemediate portion pressed outwardly to engage the



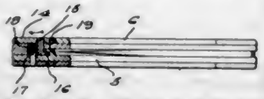
mouth portion of a milk bottle at diametrically opposite points.

1,687,957. REFRIGERATION. BALTZAR CARL VON PLATEN and CARL GEORG MUNTERS, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Aug. 4, 1923, Serial No. 655,768, and in Sweden Aug. 18, 1922. Divided and this application filed Mar. 4, 1927. Serial No. 172,672. 7 Claims. (Cl. 62—119.)



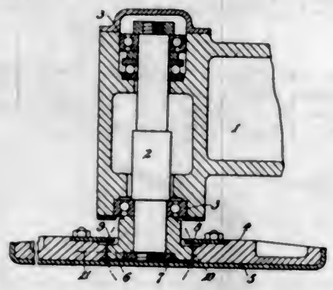
1. Refrigerating apparatus of the absorption type comprising a main generator, an absorber, an auxiliary generator, a conduit extending from within said auxiliary generator upwardly to said main generator and opening within said auxiliary generator below the top thereof, means to heat the main and auxiliary generators, the parts being so arranged that a gas space is formed in the upper part of said auxiliary generator upon application of heat thereto, a conduit connecting the lower part of the absorber with the auxiliary generator, and a conduit connecting the lower part of the main generator with the upper part of the absorber.

1,687,958. PENKNIFE. FRANK WAIWAT, Westfield, Mass. Filed Aug. 23, 1926. Serial No. 130,965. 1 Claim. (Cl. 30—10.)



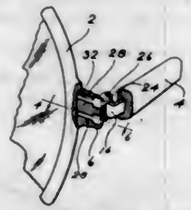
A knife of the class described including a pair of handle sections, a blade, means for pivoting the handle sections and blades together, said blade being located between said sections, one handle section being provided with an arcuate groove of approximately 180° concentric with the pivot, said blade being provided with a lug extending into the groove, a back between the handle sections, a shoulder formed on the blade abuttable with one end of the back to limit the blade to swing approximately 180° with the other handle section, and means for holding the handle sections together consisting of a recess in the back remote from the pivot pin, a movable portion at one end of one handle section provided with a lateral lug on which is an offset end movable in said recess in the back, a keeper on the other handle section and adapted to be engaged by said lateral lug, and a spring bearing against said lug and adapted to normally hold it in said engaged position.

1,687,959. APPARATUS FOR POLISHING PLATES OF GLASS, MARBLE, OR OTHER MATERIAL. FREDERIC BARNES WALDRON, Prescot, England, assignor to Pilkington Brothers Limited, Liverpool, England, a British Company. Filed Sept. 5, 1924, Serial No. 735,985, and in Great Britain Sept. 26, 1923. 2 Claims. (Cl. 51—109.)



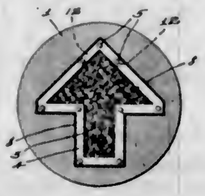
1. Abrading apparatus of the type described, comprising abrading blocks free to rotate and tilt, characterized by an abrading block being held against centrifugal force in a plane which is not above the centre of gravity of the block.

1,687,960. METHOD OF MAKING OPHTHALMIC MOUNTINGS. JAMES W. WELSH, Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 29, 1926. Serial No. 105,466. 6 Claims. (Cl. 18—59.)



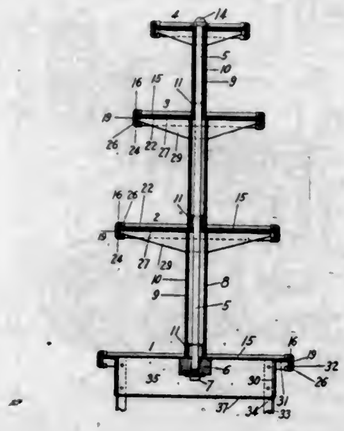
1. A method of making an article of the class described that comprises deforming a member so as to expose an inner previously unexposed portion thereof along the direction of the thickness of the member, inserting a second member in the exposed portion of the deformed member, and restoring the deformed member to its original form.

1,687,961. SIGNAL-ELEMENT CONSTRUCTION. JOHN B. WEST, Syracuse, N. Y. Filed July 24, 1925. Serial No. 45,846. 7 Claims. (Cl. 116—47.)



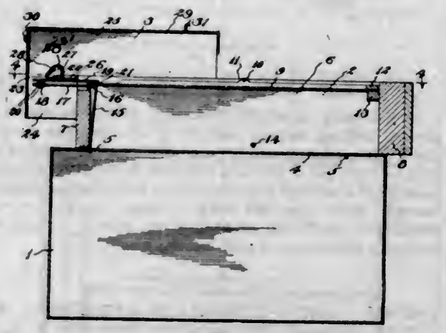
1. A signal element, comprising a transparent background disk movable about an axis, and a transparent pointer of a different color from the disk, the pointer being movable about an axis with the disk, and a frame for the signal element, the frame being of the same outline as the pointer, the disk and pointer being secured to the frame, and arranged to form a border therefor.

1,687,962. DISPLAY STAND. BENEDICT E. WILLETT, Dayton, Ohio, assignor to John T. Dietz, Dayton, Ohio. Filed May 4, 1926. Serial No. 106,761. 12 Claims. (Cl. 211—135.)



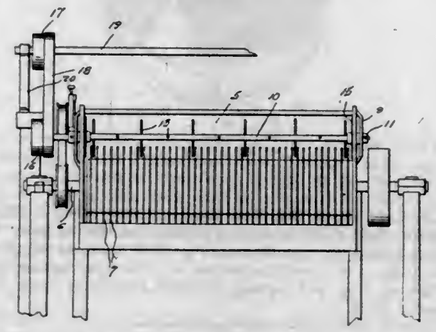
1. In a display stand, a base, a standard secured to and extending upwardly from said base, a tubular spacing element supported by said base and extending upwardly about said standard, a tray supported by said spacing element and having an opening through which said standard extends, said tray comprising a body portion, a channel shaped reinforcing member extending transversely to said body portion beneath the same, and a second channel shaped reinforcing member fitting within the first mentioned reinforcing member and adapted to receive the upper end of said spacing element, and means connected with the upper end of said standard to retain the several parts in their assembled positions.

1,687,963. TRAP. GROVER L. WINGFIELD, Sandstone, W. Va. Filed Nov. 30, 1927. Serial No. 236,790. 5 Claims. (Cl. 43—70.)



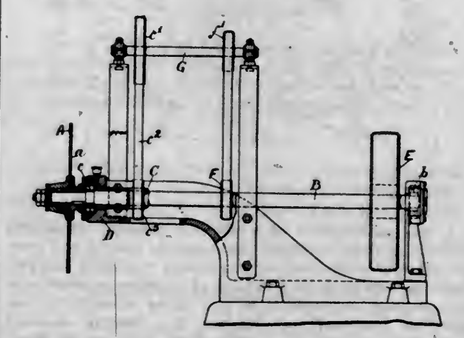
1. A trap comprising a confining chamber having an opening in its top, a body resting upon the top of said chamber in enclosing relation to the opening therein and open at its bottom, a platform in said body pivoted intermediate its length and normally remaining in a horizontal position and adapted to swing downwardly through the opening, a bait housing carried by an end portion of said body and disposed in overhanging relation to an end portion of said platform, a latch carried by said body and normally engaging said platform to releasably retain the platform horizontal, a trigger plate pivoted intermediate its length in said housing and extending horizontally therein with its inner end adjacent said platform, a bait pan carried by said trigger plate, an arm of pliable material extending upwardly from said bait pan and bent downwardly in overhanging relation to the pivot mounting for said trigger and constituting a counter-weight, and an operative connection between the latch and trigger.

1,687,964. ANTICHOKE ROLL AGITATOR. MARTIN ANDREW WINSTEAD, JOHN DUNHAM REID, and WILLIAM CASSIUS MOODY, Lundell, Ark. Filed Apr. 19, 1927. Serial No. 185,012. 2 Claims. (Cl. 19—55.)



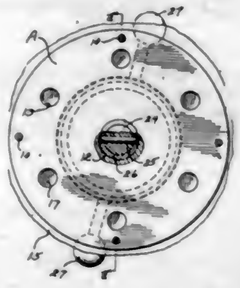
1. In a cotton gin, a roll box, a shaft journalled in the roll box, gin saws on the shaft, the sides of said roll box being provided with openings and formed with exterior spiders crossing the openings, a second shaft journalled in the spiders to extend in parallelism with the first shaft, heads on the second shaft to close the openings, said second shaft provided with a plurality of transverse openings arranged in alternate right angular relation, rods extending through the openings, means for fixing the centers of the rods in the openings, said rods being sufficiently long to swing between the gin saws.

1,687,965. APPARATUS FOR CUTTING STONE AND LIKE MATERIAL. ERIC AINLEY and HAROLD AINLEY, Stocks Moor, near Huddersfield, England. Filed Nov. 1, 1926, Serial No. 145,607, and in Great Britain Nov. 9, 1925. 5 Claims. (Cl. 125—13.)



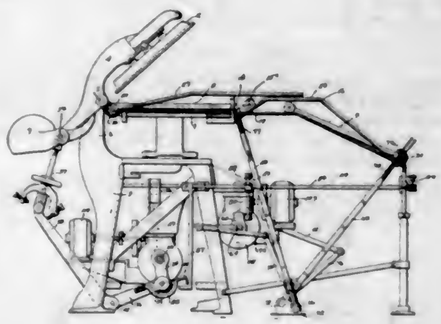
1. In apparatus for cutting stone and the like, the combination of a rotary shaft, a sawing wheel rigidly fixed thereon for cutting the material when moved in the plane of said wheel past said shaft, an eccentric sleeve rotatably mounted on said shaft, a bearing for said sleeve, and means for causing the wheel and sleeve to rotate at relatively different speeds.

1,687,966. LOCKING CARRIER FOR DISK WHEELS. ARTHUR M. BAYER, Danube, Minn. Filed Feb. 19, 1927. Serial No. 169,559. 10 Claims. (Cl. 70—90.)



1. A device of the class described comprising a fixed carrier plate, a retaining ring slidably interfitting with the carrier plate for clamping a wheel disk between the plate and ring, and a locking means revolubly carried by the retaining ring and having threaded connection with the carrier plate.

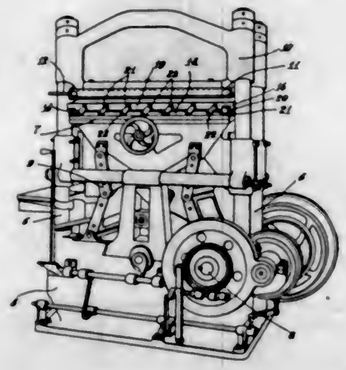
1,687,967. COMBINED LAUNDRY PRESSING MACHINE AND WORK CONVEYER. PHILIP N. BRAUN, Syracuse, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 4, 1924. Serial No. 735,842. 15 Claims. (Cl. 68—9.)



1. The combination of a pressing machine comprising coacting pressing elements, one movable toward and from the other, a work conveyer comprising oppositely movable trays movable from the front side of the machine to between the pressing elements, one tray being movable in one direction rearwardly to between the pressing elements while the other is moving forwardly in the opposite direction from between the pressing elements, guides for the trays, power means for actuating the movable element of the machine and for actuating the trays along their guides and manual means for controlling the actuation of the movable element and the trays by the power means.

15. A work holding device for pressing machines, comprising a tray having spaced blocks of carding thereon.

1,687,968. PRESS. ALFRED BREDENBERG, Champlain, N. Y., assignor of one-half to T. W. & C. B. Sheridan Company, a Corporation of New York, and one-half to The Sheridan Iron Works, a Corporation of New York. Filed Dec. 31, 1925. Serial No. 78,646. 15 Claims. (Cl. 149—23.)



1. An ironing or wiping attachment for platen presses, comprising a base attachable to one of the press members of the press, a platen normally spaced from the base, and means causing lateral movement of the platen as the pressure causes it to approach the base.

1,687,969. LOCKING MANHOLE COVER. CHALMERS SIMMS BROWN, Lima, Ohio, assignor to Brown and Brown, Inc., Lima, Ohio, a Corporation of Ohio. Filed Sept. 26, 1927. Serial No. 222,148. 9 Claims. (Cl. 220—55.)

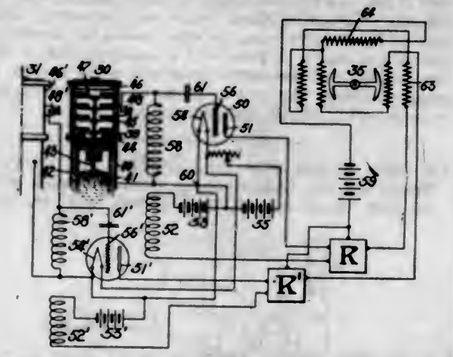


1. A locking device for manhole covers comprising a pivoted locking member carried by the manhole cover, a pivot pin carried by said cover, an actuating member carried by said pivot pin and adapted to move said locking member to operative and inoperative positions, said locking member being provided with a cutout portion through which said pivot pin is adapted to extend to limit the swinging movement of said locking member.

1,687,970. LIQUID-CONTROLLED GYROSCOPIC COMPASS. LOUIS F. CORLISS, South Tamworth, N. H., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 27, 1923. Serial No. 682,861. 21 Claims. (Cl. 33—226.)

1. In a gyroscopic compass, a gyroscope mounted with three degrees of freedom, means responsive to deviation of the gyro axis from the meridian, means for applying a torque to said gyroscope, and means including an oscillatory electric circuit whereby said first means controls said second means.

17. In a gyro-compass, means for mounting the same for freedom about a plurality of axes, power means for performing a function with respect thereto, and means controlled by the position of the gyroscope about one of said



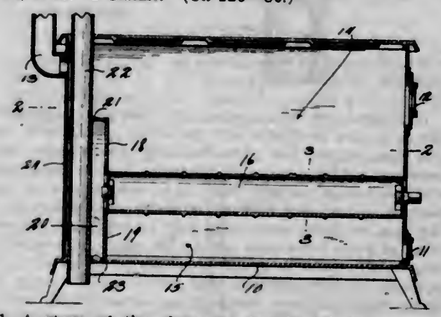
axes for governing said power means comprising an oscillatory circuit including a variable condenser and an audion tube.

1,687,971. DRYING-ROOM TUMBLER. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 12, 1927. Serial No. 183,195. 6 Claims. (Cl. 34—5.)



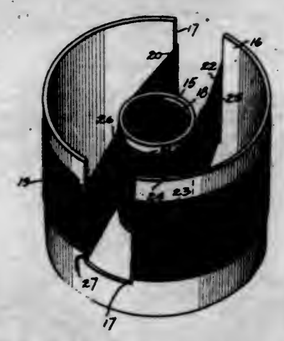
1. A drying room tumbler comprising a horizontal drum, a clothes support mounted in the drum to rock about the axis of the drum and means for rocking the support including mechanism for imparting a sudden movement to the support to flip the same at the end of the oscillation of the support.

1,687,972. STOVE. HENRY B. DE CAN, St. Maries, Idaho. Filed June 30, 1927. Serial No. 202,641. Renewed May 29, 1928. 4 Claims. (Cl. 126—80.)



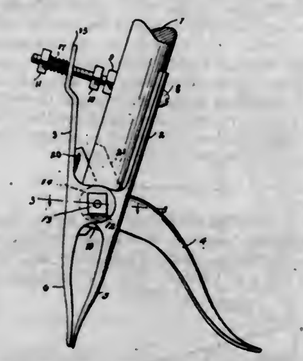
1. A stove of the character described having an air chamber adjacent its rear end and an air pipe extending upward through the bottom of the stove and through said air chamber and through the top of the stove, the air chamber terminating short of the top of the stove to permit products of combustion to pass around the upper portion of the air pipe.

1,687,973. TRANSFORMER. FRANCIS DE WILLY, Los Angeles, Calif. Filed Apr. 20, 1926. Serial No. 103,378. 4 Claims. (Cl. 175—359.)



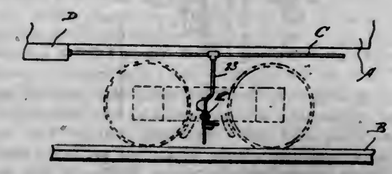
1. A transformer comprising an inner tubular frame a primary in the frame, an outer tubular frame concentric of the inner frame and formed at diametrically opposed points with slots, and a secondary continuously wound to form a main coil on the inner frame encircling the primary and extending through the slots and to the outer side of the outer frame to form other coils exteriorly of the outer frame.

1,687,974. WEED PULLER. DAVID S. DICKIE, Seattle, Wash. Filed Nov. 9, 1926. Serial No. 147,332. 3 Claims. (Cl. 55—148.)



2. A weed puller comprising a handle, fixed and pivoted jaws mounted upon the handle, and a fulcrum member pivoted to the handle and having a cross head at its pivotal end engaging the pivoted jaw upon opposite sides of its pivot.

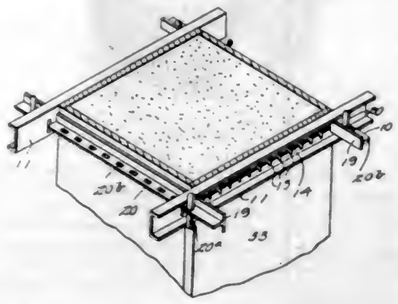
1,687,975. AUTOMATIC BLEEDING MECHANISM FOR AIR LINES OF TRAIN AIR-BRAKE MECHANISM. WILLIS F. DISHON, Stanford, Ky. Filed May 2, 1927. Serial No. 188,215. 4 Claims. (Cl. 246—171.)



1. In an automatic bleeding device for the air brake system of a train of cars, a housing constructed of a pair of elongated plates, one of said plates adapted for attachment to a car, said plates being formed with inlet and

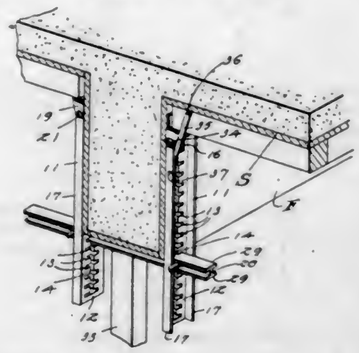
outlet openings in communication with the air brake system, a valve member operable within said housing for closing said inlet and outlet opening, a plunger slidable between the said plates, the upper end portion of said plunger being associated with the valve in a manner whereby the same will actuate the valve when moved inwardly within the housing.

1,687,976. CONCRETE-FORM CLAMP. HORACE FORD, Baltimore, Md., assignor of one-half to Charles L. Stockhausen, Baltimore, Md. Filed Jan. 21, 1928. Serial No. 248,475. 14 Claims. (Cl. 25—131.5.)



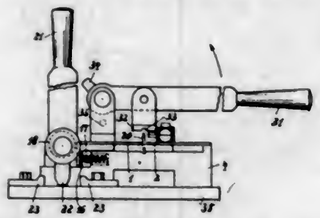
11. A concrete form clamp including an end member H-shaped in cross section and channel iron side members, the webs of the channel iron side members having longitudinally spaced transversely extending slots for the passage of the flanges of the H, a longitudinally extending slot connecting pairs of adjacent transverse slots for the reception of the web of the H the longitudinal slots of each side member being continuous and communicating with all of said transverse slots, the webs of said channel bars being continued beyond the flanges thereof and angle iron seats secured to the continuations of the webs and each having an angle thereof projecting outwardly from the web at the same side thereof as the flanges.

1,687,977. CONCRETE-FORM CLAMP. HORACE FORD, Baltimore, Md., assignor of one-half to Charles L. Stockhausen, Baltimore, Md. Filed June 12, 1928. Serial No. 284,737. 11 Claims. (Cl. 25—131.5.)



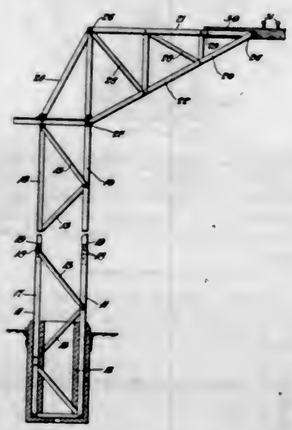
8. A concrete form clamp including side and end members for engagement with sides and at least one end of a concrete form, said clamp including end and side members, the end members being of a cross section including a web and a perpendicularly related flange, the side members comprising bars each having a plurality of longitudinally spaced transversely extending slots for the selective passage of the flange of an associated end member, a longitudinally extending slot communicating with all of said transverse slots adapted for the reception of the web of the end member, means at corresponding ends of the side members affording transversely extending seats projecting outwardly from the side member for the reception of the end of a beam and a brace pivoted to the side member and swingable about the pivot thereof to engage the outer edge of the associated seat and adapted to be secured to a beam disposed upon said seat.

1,687,978. APPARATUS FOR ASSEMBLING KNIVES. ERNST GERLING, Ohligs-Solingen, Germany. Filed Sept. 21, 1926. Serial No. 136,872. 3 Claims. (Cl. 29—84.)



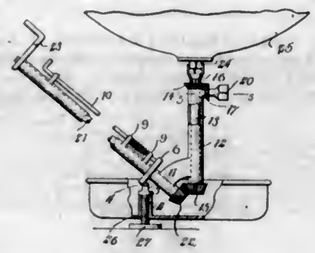
1. An apparatus for assembling knives, comprising a pair of integral clamping plates adapted to hold the rivets of the knife between the same, means for throwing the plates into clamping engagement with each other and means for pressing the assembled parts of the knife together.

1,687,979. ELECTRIFICATION POLE. CHAUNCEY MARSH GOODRICH, Windsor, Ontario, Canada. Filed Feb. 7, 1925, Serial No. 7,582, and in Canada Dec. 9, 1924. 1 Claim. (Cl. 189—22.)



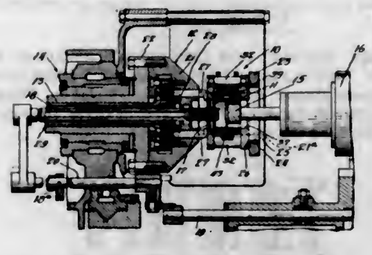
In a device of the character described and in combination, a pole, a cantilever arm supported on said pole, said arm comprising a pair of horizontally spaced upper chord members rigidly secured to the pole at their inner ends and converging towards their outer ends, a pair of horizontally spaced lower chord members rigidly secured to the pole at their inner ends and converging towards a point at their outer ends beyond the point towards which said upper chord members converge, a series of lacing members extending between and connecting said upper and lower chord members forming two substantially vertical trusses, a block rigidly secured between said substantially vertical trusses at the outer end and at least one panel point of said trusses, so that loads and torsions delivered to said block in any direction and in any plane will be carried by said arm to said pole as axial streases in the members composing said arm.

1,687,980. CRANK-CASE DRAINER. HARLIN HIGGINS, ALBERT L. FISH, and JAMES L. O'HARE, Faith, S. Dak. Filed Oct. 3, 1927. Serial No. 223,702. 4 Claims. (Cl. 184—1.5.)



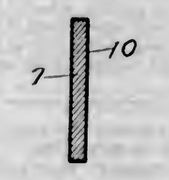
1. A device for removing and replacing drain plugs of crank cases, the combination of a pan, a tubular handle pivotally and rotatably associated with the pan, a driven shaft, a driving shaft rotatable in the handle, and means for operating the driving shaft, and thus the driven shaft.

1,687,981. METHOD OF AND APPARATUS FOR LOADING MACHINE TOOLS. HERBERT E. KEMPTON and KEITH F. GALLIMORE, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 15, 1923. Serial No. 680,826. 16 Claims. (Cl. 51—278.)



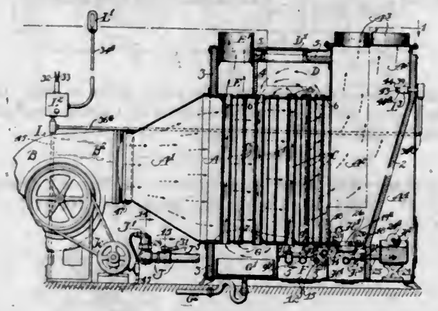
1. A work holding device comprising, in combination, a frame having a pair of substantially alined openings, said frame being adapted to receive a plurality of work blanks, and a floating clamping means loosely mounted in said frame for clamping a work blank in position against each of said openings.

1,687,982. SHADE. EDWIN ROBERT KIMBALL, Waukesha, Wis., assignor to The Aeroshade Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Sept. 11, 1925. Serial No. 55,070. 6 Claims. (Cl. 156—16.)



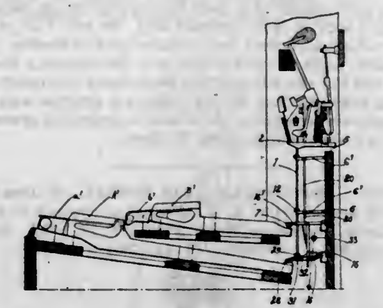
3. A shade composed of a plurality of thin flat splints having a coating of aluminum bronze applied to the sides and edges thereof, said splints being hingedly connected together in spaced edge to edge relation.

1,687,983. HOT-AIR FURNACE. ALBERT L. KLEES, New York, BENJAMIN GREENFIELD, Jackson Heights, N. Y., and GEORGE B. ACKERMANN, Chicago, Ill., assignors to Cribben & Sexton Company, Chicago, Ill., a Corporation of Illinois. Filed June 9, 1927. Serial No. 197,697. 15 Claims. (Cl. 126—113.)



1. In a furnace, an air-heating chamber, combustion-flues, return-flues, and exit-flues extending through said chamber, and means whereby air may circulate through said chamber transversely across said flues, the incoming air coming first into contact with said exit-flues.

1,687,984. MECHANICAL CONSTRUCTION OF PIANOS. GUSTAVE LYON, Paris, France, assignor to Société Anonyme Pleyel, Paris, France, a Corporation of France. Filed Jan. 27, 1927, Serial No. 164,067, and in France Mar. 26, 1926. 2 Claims. (Cl. 84—235.)

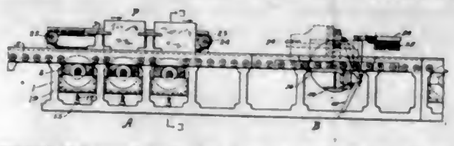


1. In a coupling device, for pianos provided with a lower keyboard the keys of which act directly upon the striker mechanism of the note situated in the same plane and an upper keyboard the keys of which act upon the striker mechanism of the note situated an octave higher than the note controlled by the keys of the lower keyboard, providing for the simultaneous operation of the striker mechanism actuated by any of the keys of the lower keyboard and of the striker mechanism of the note situated an octave higher than the note controlled by the key of the lower keyboard without affecting the corresponding key of the upper keyboard, a coupling piece between the lever actuated by the keys of the lower keyboard and the lever actuated by the keys of the upper keyboard, a pivot for the coupling piece on the lever actuated by the keys of the upper keyboard, a mortise formed in the lever actuated by the keys of the lower keyboard, a bar normally holding the coupling piece in coincidence with the mortise, and an external pedal controlling the bar.

1,687,985. GLASS-GRINDING MACHINE. STEPHAN P. MERMER, Toledo, Ohio. Filed Feb. 26, 1927. Serial No. 171,145. 13 Claims. (Cl. 51—76.)

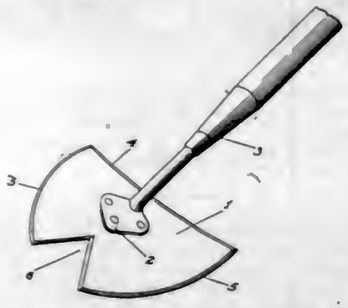
1. A machine for grinding edges of glass plates comprising a line of support upon which the glass may be stood

on edge in substantially vertical position, means for guidingly maintaining said plate in such position, grinding means rotated substantially on the level with said line of



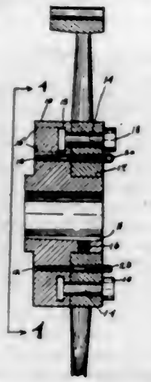
support and onto which the glass plate moves so that the edge thereof may be ground, and means for turning the glass in order that another edge thereof may be ground.

1,687,986. WEEDING HOE. GEORGE H. MILLER, Chico, Calif. Filed May 18, 1926. Serial No. 109,827. 2 Claims. (Cl. 97—68.)



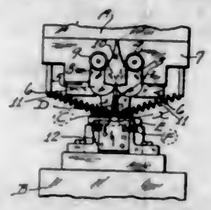
1. A hoe comprising a blade having a centrally disposed V shaped incision in its forward edge, the rear edge of the blade being wider than said incision and extending in a transverse plane at right angles to a line bisecting the incision and the side edges of the blade being sharpened and curving inwardly from the rear edge to a junction with the side edges of the incision, and a handle projecting upwardly and at a rearward angle from the blade.

1,687,987. ADJUSTABLE GEAR WHEEL. CLADORN F. MOON, Franklinville, N. C., assignor of one-half to Arlin R. Lewis, Greensboro, N. C. Filed Feb. 17, 1927. Serial No. 168,977. 3 Claims. (Cl. 74—28.)



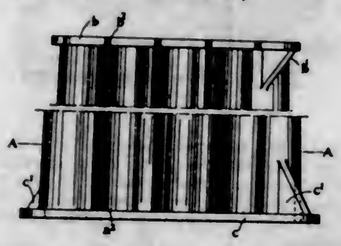
1. In an adjustable gear, a hub member, a gear member, holes penetrating one of the members, a circular T-shaped slot in the other member, bolts having their heads mounted for adjustment in the T-shaped slot and having their shanks positioned in the said holes, and nuts on the smaller ends of the bolts for securing the gear member and hub member together in any desired adjusted relation to each other, a plurality of tapered holes penetrating both the gear member and hub member at points equidistant from the center of the gear and hub members, a plurality of tapered pins adapted to be driven in the tapered holes to insure the parts retaining their adjusted relation to each other.

1,687,988. METAL-BENDING MACHINE. JAMES J. MULLEN and FRANCIS M. STAMBAUGH, St. Louis, Mo.; said Stambaugh assignor to said Mullen. Filed Jan. 7, 1927. Serial No. 159,589. 15 Claims. (Cl. 153—12.)



1. A metal bending machine for progressively bending a plate to form hollow ribs or corrugations thereon, said machine comprising a work support that is adapted to sustain a flat plate, a male die member that is adapted to engage the side of the plate that contacts with said work support, cooperating rockable female die members adapted to engage the opposite side of said plate, means for bodily moving the female die members towards the male die member and the work support, thereby causing said female die members to hold the plate firmly against the work support, and means for moving said female die members after they have engaged the plate, so as to bend the plate over the male die member while portions of the plate are frictionally engaged by the work support and the female die members.

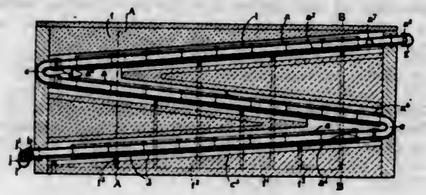
1,687,989. RETORT FOR THE DISTILLATION OF COAL AND SIMILAR CARBONACEOUS SUBSTANCES. CHARLES HENRY PARKER, Codsall, England. Filed Jan. 27, 1928, Serial No. 249,963, and in Great Britain Sept. 25, 1926. 1 Claim. (Cl. 202—9.)



A battery of vertical retorts for the distillation of coal and similar carbonaceous material, comprising a unitary casting having a single row of retort chambers therein, each of said chambers being of oblong cross section and increasing in dimension from the upper end to the lower end thereof, the major axis of each chamber being disposed at an angle of substantially 45 degrees to the center line of the battery casting as a whole, whereby substantially one-half of the wall of each intermediate chamber is an outer wall of the casting, said casting having reinforcing means integral with the flat portion of the outer walls of the end chambers.

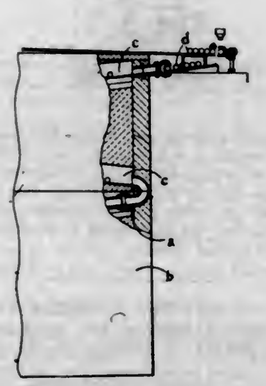
1,687,990. DISTILLATION OF COAL AND SIMILAR CARBONACEOUS SUBSTANCES. CHARLES HENRY PARKER, Codsall, England. Filed Jan. 27, 1928, Serial No. 249,966, and in Great Britain Sept. 25, 1926. 2 Claims. (Cl. 202—14.)

1. Apparatus for the distillation of coal and similar carbonaceous material, comprising a retort formed in connected tubular sections defining a continuous descending path, a setting in which certain of said sections are fixedly supported and the other sections are slidably supported, said setting having passages therein for the distribution of heating gases about said retort, the fixed sections of said retort being telescopically connected to said other sections



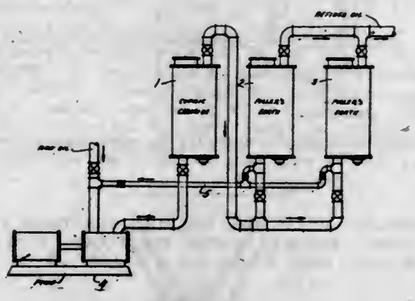
to permit relative endwise movement under expansion substantially cylindrical receptacles in which the carbonaceous material is charged adapted to roll in said retort sections, means in said retort sections for guiding said receptacles, and means for sealing the ends of said retort.

1,687,991. DISTILLATION OF COAL AND SIMILAR CARBONACEOUS SUBSTANCES. CHARLES HENRY PARKER, Codsall, England. Filed Jan. 27, 1928, Serial No. 249,967, and in Great Britain Sept. 25, 1926. 1 Claim. (Cl. 202—14.)



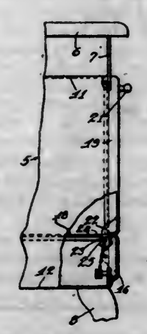
Apparatus for the distillation of coal and similar carbonaceous material, comprising an inclined tubular retort, a tubular preheating casing of considerably greater cross section than said retort and arranged above said retort with its lower end connected to the upper end of the retort, said preheating casing and said retort being arranged to define a continuous descending passageway of zig-zag formation, a setting in which said retort and said preheating casings are supported and having passages therein about said retort but not about said preheating casing for the distribution of heating gases, substantially cylindrical receptacles in which the carbonaceous material is charged adapted to roll in and be guided by said preheating casing and said retort, said receptacles having perforated ends, and means for sealing the upper end of said preheating casing and the lower end of said retort, said receptacles being of such dimension as to substantially fill said retort, whereby said receptacles are subjected to the heating action of a large quantity of accumulated products of distillation during their passage through said preheating casing.

1,687,992. REFINING OF HYDROCARBON OILS. ERNEST B. PHILLIPS, East Chicago, and JAMES G. STAFFORD, Hammond, Ind., assignors, by mesne assignments, to The Gray Processes Corporation, Newark, N. J., a Corporation of Delaware. Filed May 29, 1926. Serial No. 112,638. 4 Claims. (Cl. 196—44.)



3. An improved method of removing sour constituents from petroleum distillates, comprising continuously flowing in a liquid stream of the oil substantially free from water first through a body of finely divided solid cupric chloride and then through a body of finely divided fuller's earth.

1,687,993. COOKING STOVE. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed Dec. 9, 1926. Serial No. 153,496. 8 Claims. (Cl. 126—191.)

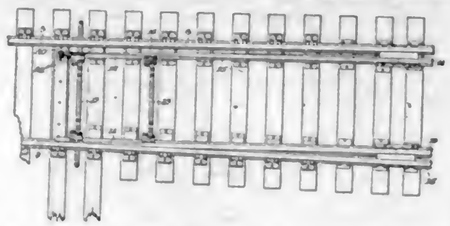


8. A stove having an oven section with sheet metal side and top walls with inturned flanges on the side walls, a separately formed front plate secured at its opposite ends to said side walls, and coacting with the side flanges to form a door frame, a door having hinge members rigid therewith and projecting inwardly and downwardly from its lower edge, there being slots formed in said frame to receive said hinge members, said slots having their upper ends in said side flanges and their lower ends in said front plate, and means for holding said hinge members in operative relation to the door frame.

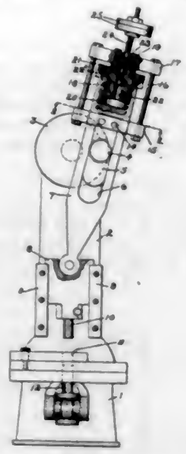
1,687,994. SWITCH DEVICE. EDWARD W. POWELL, Chicago, Ill., assignor to Pettibone-Mulliken Company, a Corporation of New York. Filed Jan. 23, 1928. Serial No. 248,777. 3 Claims. (Cl. 246—437.)

1. A point rail of a railway switch formed of a main section and a terminal point section secured to said main

section and completing its point portion, said terminal point section having a laterally extending wheel-flange-engaging projection for deflecting the wheel flange laterally in a direction away from the side of said point rail.

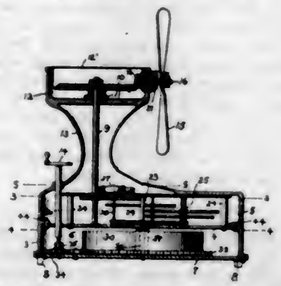


1,687,995. PRESS FOR MOLDING GRANULAR POWDERS. RALPH L. SEABURY, Toledo, Ohio. Filed July 8, 1926. Serial No. 121,112. 7 Claims. (Cl. 25—45.)



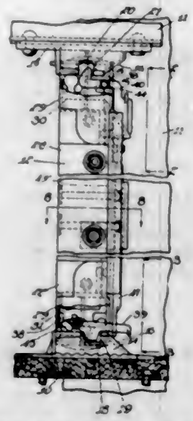
1. A press comprising a reciprocatory plunger, a connecting rod pivoted to said plunger having a longitudinally elongated guide, a power crank, a slide operatively connected to said crank and movable in said guide, and a fluid pressure device connecting said connecting rod and slide for compensating for a counteracting force on said plunger in excess of a predetermined maximum.

1,687,996. SPRING-DRIVEN FAN. FRANK J. SIEL, Lakewood, Ohio. Filed June 15, 1926. Serial No. 116,090. 3 Claims. (Cl. 230—258.)



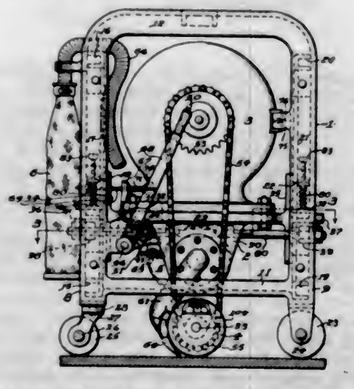
1. A spring driven fan, comprising a casing having a hollow base subdivided by a horizontal partition and formed with a hollow head and hollow relatively long neck surmounting said base, a rotary fan supported upon said head, drive gearing in said head for said fan, an operating shaft for said gearing extending a substantial distance downwardly through said hollow neck into the upper subdivision of said base, power transmitting gearing mounted upon said partition and forming a removable gearing unit therewith, a spring motor within the lower subdivision of said hollow base having operating connection with said shaft by means of said gearing unit, and means for winding said spring motor.

1,687,997. SIDE-DOOR CONSTRUCTION. KENNETH J. TOBIN and WILLIAM W. DARROW, Chicago, Ill., assignors to Camel Company, Chicago, Ill., a Corporation of Illinois. Filed July 23, 1927. Serial No. 207,877. 9 Claims. (Cl. 20—22.)



1. In a railway house car, in combination, a movable door jamb comprising a Z-bar, castings secured to the two extremities of said Z-bar, latching members carried by said castings, an operating member for causing said latches to move in unison with one another, said operating member being disposed in position to be protected by one of the flanges of said Z-bar.

1,687,998. MACHINE FOR FINISHING FLOORS. EDWARD F. WENDIG, Richboro, Pa. Filed Jan. 31, 1928. Serial No. 250,773. 9 Claims. (Cl. 51—176.)



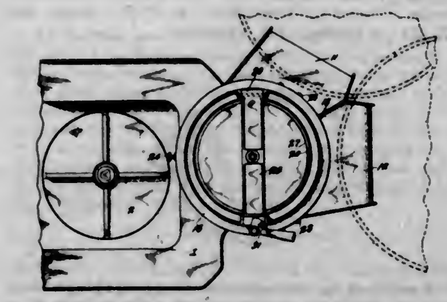
1. In a floor surfacing machine, the combination with an outer carriage-frame and supporting wheels therefor, of an inner frame mounted to slide freely vertically within said carriage, an abrasive roller mounted to rotate on a horizontal axis and motor for driving the same, both mounted and supporting upon said inner frame, said abrasive roller projecting laterally beyond the sides of said carriage to a point beyond anything projecting from said frame and carriage, whereby the outer end of said abrasive roller may be brought close to the baseboard of the wall surrounding the floor.

1,687,999. CONTROLLER CONSTRUCTION. ERNST WIRZ, ARNOLD HALLER, and KARL KUNTZE, Baden, Switzerland, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed May 5, 1927, Serial No. 189,069, and in Germany Apr. 3, 1926. 1 Claim. (Cl. 200—166.)



In a controller construction of the character described, a bushing provided with a bore for receiving an operating shaft, and material molded about a portion of said bushing and shaped to provide a cam-element, the outer surface of said bushing portion providing with the set material a direct interlocking connection between said bushing and said cam-element holding the same against both rotational and axial movements with respect to each other, another portion of said bushing extending axially beyond said cam-element and being operable to accommodate retaining means for holding such assemblage in fixed position with respect to the operating shaft therefor.

1,688,000. WASHING MACHINE. ALPHEUS W. ALTORFER, Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill., a Corporation of Illinois. Filed May 4, 1927. Serial No. 188,687. 5 Claims. (Cl. 210—75.)



1. In a centrifugal extractor, in combination, a rotatable receptacle arranged to discharge liquid from its upper end, a drain board having a fixed radial position with respect to said receptacle and below its discharge, a supporting means surrounding said receptacle having discharge outlets, one of which is coincident with said drain board, and a water receiving and conducting member overlying said support and manually and circumferentially adjustable of said receptacle adapted to receive water expelled by said receptacle and having a discharge outlet adapted to be moved into registering position with the outlets of said supporting means, whereby to selectively discharge water through said outlets.

1,688,001. AGITATOR FOR WASHING MACHINES. ALPHEUS W. ALTORFER, Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill., a Corporation of Illinois. Filed June 15, 1927. Serial No. 198,907. 3 Claims. (Cl. 259—101.)



1. An agitator for washing machines comprising a disc-like member, cast in one piece and formed with a central hub, and a plurality of hollow radially arranged wings cone-like in vertical cross-section throughout their length upstanding from the base of said member; the upper end of said hub terminating at a point slightly above the plane of the highest point of the wing with the greater portion of said hub well within the agitator and terminating immediately above the base thereof; the upper surfaces of said wings being arcuate in shape inclined downwardly and inwardly and upwardly into the upper end of said hub, the inner underlying portions of said wings forming a cone whereby to produce a downwardly and outwardly sloping outer surface from the hub between said wings.

1,688,002. STORAGE-CELL CONNECTER. THEODORE S. COLE, New Haven, Conn. Filed July 20, 1923. Serial No. 652,704. 3 Claims. (Cl. 173—324.)

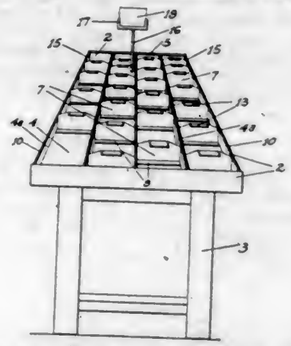


3. In a storage battery system, a plurality of cells each thereof having negative and positive plates therein, comprising lead frames and active material, and a lead connecter bridge between adjacent cells, connected to positive plates in one cell and negative plates in another cell as by fusion thereto, and having a layer of lead-mercury amalgam on the surface thereof.

1,688,003. ADJUSTABLE MERCHANDISE SALES TABLE. WILLIAM J. DARBY, Modesto, Calif. Filed Dec. 20, 1926. Serial No. 155,861. 3 Claims. (Cl. 45—140.)

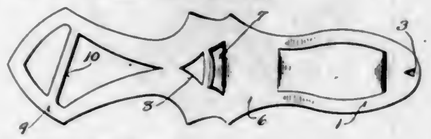
1. A sales device including a tray, a transverse and longitudinally adjustable partition in the tray, longitudi-

nally extending wings on the partition at the side edges thereof, and inturned flanges depending downwardly from



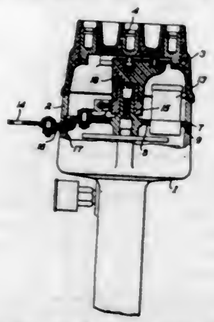
the sides of the tray at the top to form longitudinal channels in which the upper ends of the wings ride.

1,688,004. DISPLAY RACK. ELMER A. DE KARSKE, Milwaukee, Wis. Filed Dec. 12, 1924. Serial No. 755,459. 1 Claim. (Cl. 211—35.)



A display rack formed of sheet metal and integral throughout and comprising a downwardly and forwardly extending portion, an approximately horizontal top member having a prong struck downwardly and forwardly therefrom and adapted to project into a horizontal portion of a support having approximately horizontal and vertical faces, a brace extending rearwardly from the body portion below the top portion and approximately paralleling the top portion of the device and having a terminal portion adapted to bear against the vertical face of the support, said terminal portion acting as a fulcrum during attachment of the device, and a heel engaging tongue struck upwardly from the body portion.

1,688,005. IGNITION DEVICE. CEDRIC B. DICKSEE, Wilkinsburg, Pa., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y., a Corporation of New York. Filed June 6, 1924. Serial No. 718,256. 7 Claims. (Cl. 200—19.)



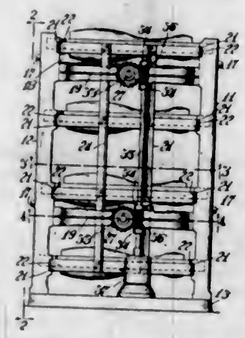
2. In an ignition device, the combination with a base member having an upwardly extending annular wall member, of a second annular wall member detachably mounted on said first named wall member, a plate member rotatably mounted between said wall members, and means for securing said wall members together.

1,688,006. FLASH-LIGHT SWITCH GUARD. CHARLES EDWARD DUISENBERG, San Francisco, Calif. Filed Feb. 14, 1927. Serial No. 168,080. 1 Claim. (Cl. 240—10.5.)



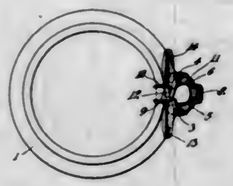
The combination with a flash light and switch therefor, of a guard arranged to normally shield the switch and prevent the inadvertent operation thereof; a split ring detachably engaging the flash light adjacent the switch, said ring having one end hingedly connected to the guard and forming a hinge mounting therefor, and the opposite end of the ring being arranged to releasably latch the guard in closed position.

1,688,007. FOOT GEAR-FORMING MACHINE. ARTHUR EICHBERG and HANS DIETZ, Chicago, Ill. Filed Sept. 17, 1926. Serial No. 136,102. 11 Claims. (Cl. 12—116.)



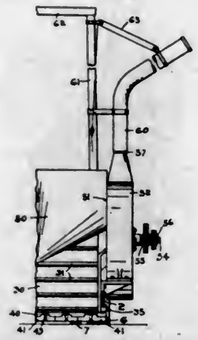
1. In a machine of the class described, a pair of side frames having aligned grooves in their inner sides, aligned elements slidably mounted therein, stretching elements operatively associated with said sliding elements, a form carried by said stretching elements and means for operating said sliding elements whereby said form is expanded.

1,688,008. HOLDING DEVICE. JOSEF ENGL, Grunewald, Berlin, Germany. Filed Mar. 3, 1927. Serial No. 172,278. 8 Claims. (Cl. 131—51.)



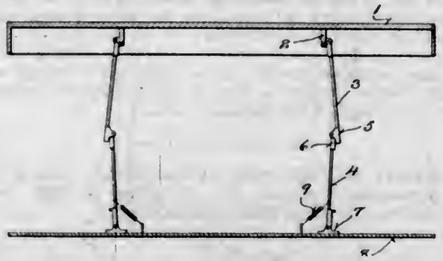
1. A device of the character described comprising a base, a pair of adjustable arms provided with holding jaws and being pivotally mounted on said base and oscillatable with respect thereto, jaw adjustment means in the path of movement of said arms cooperatively positioned therwith to open and close said jaws upon and in a direction transverse to the oscillation of said arms about their pivot.

1,688,009. SNOWPLOW. SIDNEY B. GILLIS, Enumclaw, Wash. Filed Nov. 1, 1926. Serial No. 145,630. 2 Claims. (Cl. 37—45.)



1. A plow for clearing streets of snow, comprising a wheeled frame, a reel, carrying a plurality of transversely extending and projecting blades, rotatably mounted in one end of the frame, an endless conveyor having its lower portion disposed rearwardly of the reel, a housing mounted on each side of the conveyor, each having an inlet adapted to receive snow from the conveyor, a snow deflector approximately in the form of a double share plow operatively disposed between the inlets, a vertically extending fan rotatably mounted in each housing, a flexible discharge pipe for snow communicating with each fan, means for actuating the reel and conveyor, and means for imparting a reverse movement to the fans.

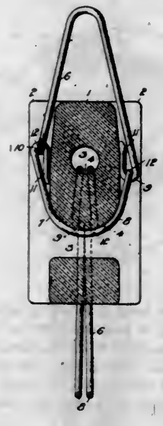
1,688,010. AWNING CONSTRUCTION. CARLYLE E. GODSKE, Racine, Wis. Filed Oct. 11, 1926. Serial No. 140,879. 1 Claim. (Cl. 156—15.)



An awning arm construction comprising an inner and an outer arm having enlarged heads pivotally joined, said heads contacting when the arm is extended and preventing said arms from becoming aligned or parallel, an outer member pivoted to the outer end of said outer arm and adapted for connection to a front bar, a rear member pivoted to the rear end of the rear arm and adapted for connection to a support, and a spring having one end attached to said outer arm and having its other end adapted for attachment to said front bar.

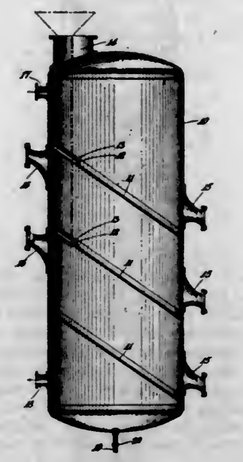
1,688,011. INSULATOR. MINOR F. H. GOUVERNEUR, Victor, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Sept. 8, 1921. Serial No. 499,172. 4 Claims. (Cl. 173—366.)

1. The combination with an insulator element having an opening therein, of a metallic connector passing through said opening, said connector having a hook and eye engagement between parts thereof, the bill of said hook being interposed between the insulator and a portion of said connector to prevent the accidental disengagement thereof.



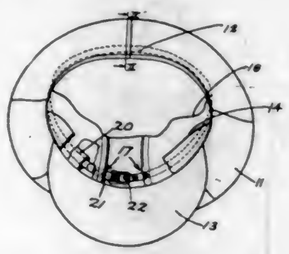
4. In combination, an insulator having a passage therethrough and a link comprising two hingedly connected members, one of said members having an end portion adapted to be removably positioned in said passage and project therethrough for detachable and immovable engagement with the end of the other member.

1,688,012. APPARATUS FOR CONTACTING FLUIDS WITH SOLIDS. PHILANDER R. GRAY, Newark, N. J., assignor to Gray Processes Corporation, Newark, N. J., a Corporation of Delaware. Filed Nov. 10, 1926. Serial No. 147,601. 5 Claims. (Cl. 210—62.)



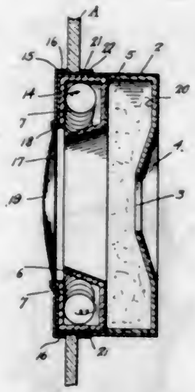
1. An apparatus for contacting solids and fluids comprising a tower, a plurality of shelves in said tower forming superposed chambers, each shelf being pervious to fluid and impervious to solids, means for causing fluid to pass successively through said chambers, and means provided in the shelves and the top of the tower for permitting the introduction of solids into each of said chambers.

1,688,013. ADJUSTABLE HEADGEAR. ABRAHAM GREENSTEIN, Brooklyn, N. Y. Filed May 2, 1928. Serial No. 274,450. 2 Claims. (Cl. 2—197.)



1. In a head gear, a body portion, a head engaging portion, a lining, a strap, a casing enclosing said strap, said casing being secured in said head engaging portion within said lining, slits in said lining, the free end of said strap projecting beyond said casing and through the slits in said lining, and having means for adjustably securing the strap ends together.

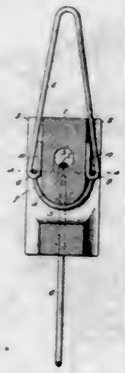
1,688,014. FROST-PREVENTION DEVICE FOR WINDOWS. SIMON A. HAMILONOFF, Hartford, Conn., assignor of two-thirds to William Zachs and Joseph Safran, Hartford, Conn. Filed Feb. 1, 1928. Serial No. 251,164. 2 Claims. (Cl. 20—40.5.)



1. In a device of the class described, the combination with a window pane having an opening formed therein, a casing arranged in said opening, the same being open at its front side the rear side of the casing being provided with a sight opening, a flanged ring secured on the open front side of the casing, a transparent member mounted on the ring to provide a closure for the open center of the ring, and a heating chamber arranged in the forward portion of the casing for heating said transparent member, and preventing the accumulation of frost thereon.

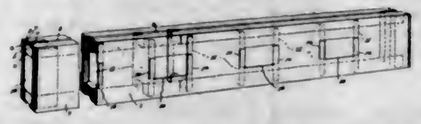
1,688,015. INSULATOR. KENT ALLEN HAWLEY, New York, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Sept. 8, 1921. Serial No. 499,295. 3 Claims. (Cl. 173—366.)

1. The combination with an insulator of the strain type provided with a plurality of curved passages therein, of means for connecting said insulator to an adjacent member, said means comprising a pair of coacting members, one of said last named members conforming to and being adapted to extend through one of the said passages in said insulator, the other coacting member having integral hooks



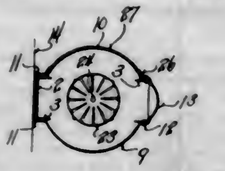
for connecting the said members, the ends of the hooks engaging against the sides of the insulator and being held closed thereby for preventing the disengagement of said coacting members.

1,688,016. HOLLOW METAL JOIST. BENJAMIN J. KLAASEN, Highland Park, Mich. Filed June 23, 1927. Serial No. 200,838. 2 Claims. (Cl. 189—37.)



1. A hollow metal joist comprising flanged side members and a channel connecting member inserted between said side members and joining the flanges of opposed side members, said flanges extending over the open side of said channel member, said connecting member holding said flanges in spaced relation, and a nailing piece inserted in said channel connecting member and accessible through the space between the flanges.

1,688,017. ILLUMINATED BARBER POLE. JULIUS L. MICHALSKI, Milwaukee, Wis. Filed May 21, 1926. Serial No. 110,673. 1 Claim. (Cl. 40—132.)



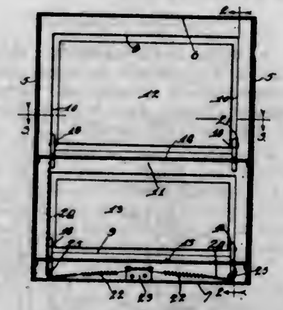
A display device comprising front and rear upright channel members arranged in spaced relation and joined by a transverse member, a pair of outwardly bowed doors hinged to one of said uprights and having their free ends adjacent the other upright, whereby a cylindrical pole-like structure is produced, means for detachably attaching the free ends of said bowed doors to the other upright, means for attaching one of said uprights to a wall to produce the effect of a pole adjacent a wall, one of said doors having apertures therethrough and forming insignia, the other of said doors having channels formed adjacent its margin for the reception of a display panel, and light producing means carried within said device.

1,688,018. REFLECTOR-SIGNAL HEAD. VICTOR L. OESTNAES, Westfield, N. J., assignor to American Gas Accumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 11, 1926. Serial No. 147,663. 2 Claims. (Cl. 88—1.)



1. A light reflector signal head comprising a container within which light reflectors are located, and a frame secured to the outer edge of said head and operating to retain the reflectors within the said container, the said frame comprising a relatively narrow portion which extends inwardly of the container and also having a rearwardly extending outer flange which encircles the outer edge of said container, and the said frame being provided with a portion projecting therefrom and in the plane thereof upon which is adapted to be placed information giving means.

1,688,019. COOK STOVE. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed Dec. 9, 1926. Serial No. 153,497. 1 Claim. (Cl. 126—191.)



A cook stove comprising, in combination, an oven section having top, side and rear walls and having partitions therein providing upper and lower oven compartments, said partitions forming the bottom of the respective compartments and the lower partition being spaced substantially above the lower edges of the side and rear walls, a front frame providing openings for said compartments, doors for said openings having lever arms rigid therewith and fulcrumed on said frame, said partitions having slots therein to receive said lever arms, a plate secured within the lower edge of said front frame beneath the lower partition, and spring means for said doors acting to counterbalance them and to hold them in operative relation to the frame, said spring means comprising two springs both anchored to said plate, flexible connections between the respective springs and hinge members of the upper and lower doors at opposite sides thereof, and guide sheaves for said connections mounted on said frame at opposite ends thereof beneath said lower partition.

1,688,020. PNEUMATIC TOOL. JOHN R. L. SANTOS, Baltimore, Md., assignor, by mesne assignments, to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 15, 1922. Serial No. 607,183. 3 Claims. (Cl. 121—24.)



1. In a percussive tool, a cylinder, a plunger, a valve to control the admission of motive fluid to opposite sides of the plunger said valve having an area subject to a substantially constant pressure and a larger opposed area subject to a continuous variable pressure, a casing around the cylinder and forming an annular pressure supply chamber around one portion of the cylinder and said casing forming an annular exhaust chamber around another portion of the cylinder, exhaust connections to and from said latter chamber, supply connections to the first-named chamber, and means for moving the cylinder longitudinally of the casing.

1,688,021. PNEUMATIC TOOL. JOHN R. L. SANTOS, Baltimore, Md., assignor, by mesne assignments, to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 15, 1922. Serial No. 607,184. 3 Claims. (Cl. 121—24.)



1. In a percussive tool, a cylinder, a plunger, a valve-box having an upper annular chamber, an exhaust passage, a passage that extends through the box and opens into the upper end of the cylinder and another passage that is continually supplied with live motive fluid and

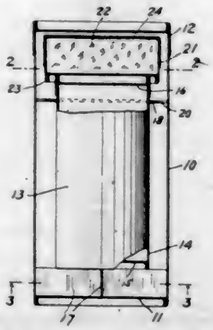
which extends from the upper side of the box and opens at the center thereof near the bottom of the box, a valve having two pressure areas one greater than the other the lesser pressure area being subject to a substantially constant pressure and the greater pressure area of the valve being subject to a continuous pressure from the box-passage which is continuously supplied with live motive fluid which it delivers near the bottom of the box, means controlled by the plunger for confining the continuously supplied motive fluid until the valve is shifted, and means comprising a passage extending from the lower end of the cylinder up to and through the valve-box, said passage at its upper end being provided with a lateral and inwardly extending opening, adapted when the valve is lifted to register with an annular channel formed about the valve, which latter is in communication with a longitudinally extending passage formed in the valve body and in communication with the supply of live motive fluid.

1,688,022. TYPEWRITING MACHINE. GEORGE H. SARGENT, Toronto, Ontario, Canada, assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1926. Serial No. 105,086. 12 Claims. (Cl. 197—126.)



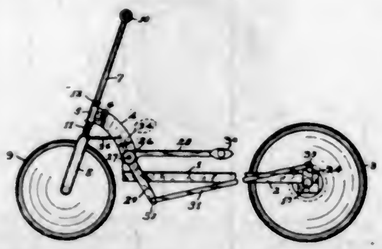
1. The combination with a typewriting machine having a platen and means for feeding one of a set of two work-web packs around said platen, and a carbon-carrier including carbon-carrying blades having carbons interleaved with the work-webs of both packs, the other pack being tucked back between the blades in a reverse idle loop, of a separator attached to the carrier and positioned between the packs to direct the active webs away from the idle webs so as to prevent friction between the active and idle packs when the carrier is moved rearwardly to strip the carbons of the active webs, and means mounted rearwardly of the carrier for separating the packs to prevent contact of the same as one moves relatively to the other during the carbon-stripping operation, said separator including a plate extending beyond the forward edges of the immediately adjacent carbon-blades to shield said idle loop from contact with the active pack.

1,688,023. REFRIGERATING UNIT. GEORGE B. SCARLETT, Kennett Square, Pa., assignor to Glacifer Company, Kennett Square, Pa., a Corporation of Delaware. Filed Apr. 24, 1926. Serial No. 104,394. 3 Claims. (Cl. 62—92.)



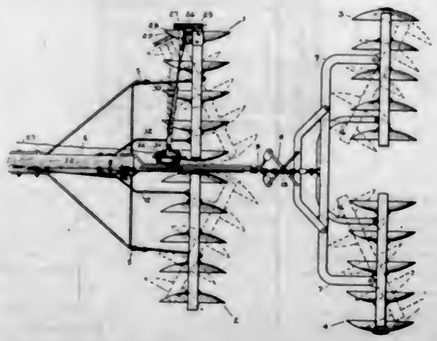
1. A refrigerating merchandising unit comprising a portable receptacle, a carton containing a frozen product within said receptacle, means to support said carton spaced from the bottom of said receptacle, an annular spacer provided with openings therethrough interposed between said carton and said receptacle, a box enclosing a refrigerant and arranged within said receptacle in close proximity to the top of said carton, and a closure for sealing said receptacle.

1,688,024. TOY VEHICLE. AUGUST SCHOLER, Pittsburgh, Pa. Filed Feb. 21, 1927. Serial No. 169,771. 2 Claims. (Cl. 208—35.)



1. In combination, a toy vehicle, comprising a flat elongated body portion having a bifurcated rear end, a shaft rotatably journaled in said rear end, a rear wheel rotatably mounted on said shaft, a crank arm fixed to one end of said shaft, a fly wheel fixed to the other end of said shaft, a supporting bracket fixed to the forward end of said body portion, a treadle shaft rotatably journaled in said bracket, a steering stem, a wheel rotatably mounted in the lower end of said stem, said bracket having a resilient and rotatable connection with said stem, a treadle member fixed to said treadle shaft, a connecting bar pivotally connected with said member and with said crank arm, and a resilient member connecting said treadle shaft with said steering stem, said shaft having a ratchet engagement with said rear wheel, substantially as described and for the purpose set forth.

1,688,025. TANDEM DISK HARROW. HARRY S. DICKINSON, Moline, Ill., assignor, by mesne assignments, to Emerson-Brantingham Corporation, Rockford, Ill., a Corporation of Illinois. Filed Nov. 12, 1920. Serial No. 423,705. 9 Claims. (Cl. 55—83.)
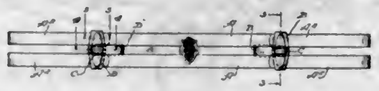


1. In a harrow, the combination of a plurality of sets of pivoted harrow sections arranged in alignment with each other, means for setting said harrow sections, said means cooperating to move one end of said pivoted sections, and automatic means for moving said ends relatively to each other and restoring said ends to their original position, the adjustment of the setting means being maintained during said movement.

4. A disk harrow having a draft frame, a pair of gangs, a clutch mechanism mounted on the draft frame, said mechanism having a driving and a driven member, means for rotating said driving member from one or more of the disks of one of the gangs, and means connecting said driven member to the gangs for moving them between working and transport positions.

9. A disk harrow having a draft frame, a pair of gangs, clutch mechanism mounted on the draft frame and connected with the gangs for angling them with respect to the line of draft, and a driving connection between the clutch mechanism and one of the gangs comprising an endless chain driven by rotation of the disks of said gang, and a flexible and telescopic shaft connection between said chain and the clutch mechanism.

1,688,026. BUMPER FOR MOTOR VEHICLES. CHARLES B. SMITH, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed July 24, 1925, Serial No. 45,733. Renewed Oct. 1, 1927. 8 Claims. (Cl. 293—55.)



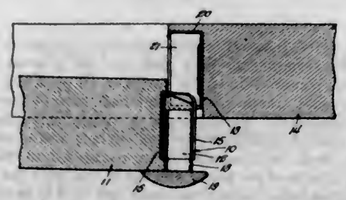
8. In a bumper for motor vehicles, an impact member comprising a flat spring bar mounted edgewise and having its opposite end portions looped by being flexed outwardly and then toward each other and lapped against the impact side of the bar with clamping means applied at the lap of the loop ends on the bar for closing the loops.

1,688,027. DISCHARGE-VALVE STRUCTURE FOR COMPRESSORS. EDWIN H. STEEDMAN, St. Louis, Mo. Filed June 2, 1927. Serial No. 196,045. 5 Claims. (Cl. 251—119.)



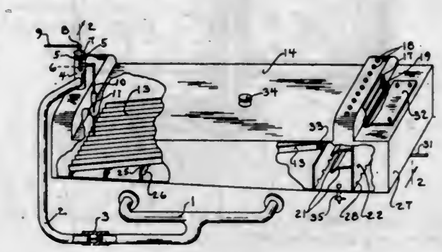
1. In a compressor, a discharge valve, an abutment member for limiting the movement of said valve away from its seat, arranged so that it is capable of moving laterally relatively to the valve and a resilient means that normally maintains said abutment member at rest or in fixed relation with the valve seat, and which co-operates with a portion on the abutment member to constitute the sole means for holding said abutment member centered with relation to the valve.

1,688,028. COMBINATION DOOR RETAINER AND BUMPER. WILLIS STUTSON, Winnetka, Ill. Filed Nov. 27, 1925. Serial No. 71,616. 4 Claims. (Cl. 16—86.)



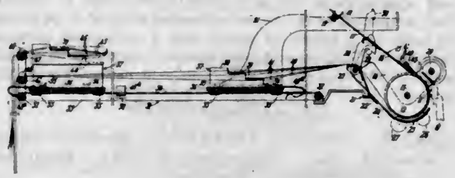
1. The combination with the hinged side door of an automobile, said door being provided with a flange at its edge, of a yielding dovetail construction comprising a receiving device, a projecting spring device which snugly engages said receiving device, said projecting device having a recess therein and a bumper member having a securing portion held in said recess and a cushioning portion backed up by the flange on said door.

1,688,029. CARBURETOR. RUBIN MILLARD SWEARENGIN, Birmingham, Ala. Filed Aug. 19, 1925. Serial No. 51,182. 8 Claims. (Cl. 261—120.)



1. In a carburetor, a liquid fuel tank having spaced air inlet and outlet ports, a movable baffle interposed between said ports and disposed to overlie the fuel at an acute angle so as to force the air in traversing the tank to flow between the opposed surfaces of the baffle and the fuel, and a remote control means to move the baffle and regulate the air passage from beneath the baffle to vary the richness of the carbureted mixture.

1,688,030. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1924. Serial No. 684,127. 12 Claims. (Cl. 197—126.)

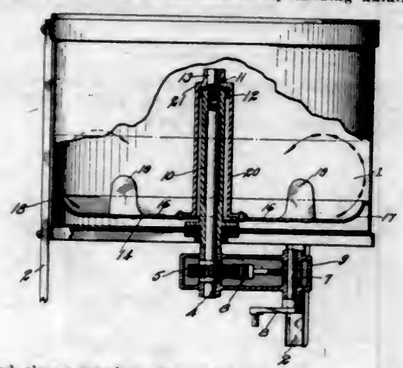


1. In a continuous billing typewriting machine, the combination with a platen around which may be fed two packs of web-plies and interleaved carbon-sheets, of means for presenting separate work-packs to the platen, including a platen-carriage having a rearward extension, two carbon-carriers, one for each set of carbon-sheets interleaved between the plies of said packs, mounted one behind the other for reciprocation on said extension, each carbon-carrier with its carbon-sheets and pack forming a separate unit, means for detaining said rearward carbon-carrier unit idly in its rearmost position when the forward carbon-carrier unit is to be used, the rear carrier mounted at a sufficient elevation above the forward carrier to leave a clearance gap for the idly-folded-back web of the forward carrier, an upper web-guide in rear of the rear carrier, and a lower-web-guiding in the ear of the front carrier.

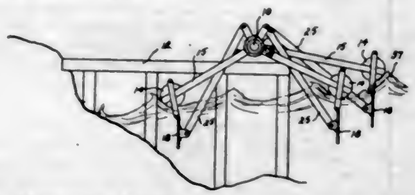
1,688,031. WASHING MACHINE. ALPHEUS W. ALTORFER, Peoria, Ill. Filed June 4, 1925. Serial No. 34,994. 2 Claims. (Cl. 259—101.)

1. A dolly for a washing machine comprising a substantially flat perforate base member provided with an upwardly

and outwardly flared peripheral portion, baffles extending upwardly from said base, and an upstanding axially disposed sleeve member arranged at its upper end for connection with a driving part.

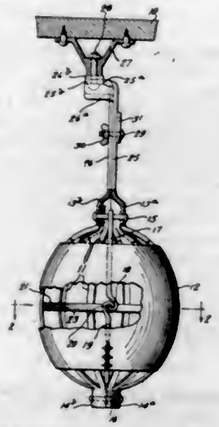


1,688,032. WAVE MOTOR. ROBERT S. BLAIR, Stamford, Conn. Filed Mar. 29, 1922. Serial No. 547,869. 21 Claims. (Cl. 253—11.)



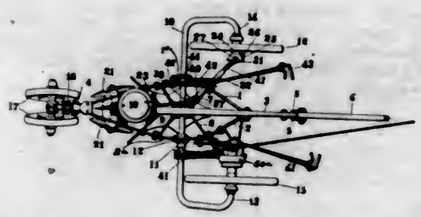
1. In apparatus for the generation of power from water waves, in combination, a float resting upon the water, a member carried by said float and movable relative thereto and adapted to be moved relative to said float by the lateral component of the waves, a member adapted to be driven to serve as a source of power, and a connection between said driven member and said member carried by said float adapted to drive the former from said movements of the latter.

1,688,033. ATHLETIC APPARATUS. ROBERT S. BLAIR, Stamford, Conn. Filed Mar. 22, 1924. Serial No. 701,001. 17 Claims. (Cl. 272—77.)



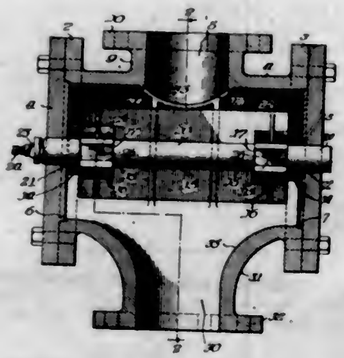
1. In athletic apparatus, in combination, a bag comprising a plurality of resilient ribs connected together adjacent their ends and shaped and connected to permit them to be distended outwardly intermediate said ends to form a collapsible frame-work, releasable means formed and connected to hold said frame-work in distended form with said ribs outwardly bowed, and pivoted means reinforcing the distended portions of said ribs and adapted to permit the collapse of said frame-work.

1,688,034. LISTER PLOW AND PLANTER. THEOPHILUS BROWN, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 13, 1918, Serial No. 262,343. Renewed Jan. 28, 1922. Serial No. 532,503. 14 Claims. (Cl. 111—56.)



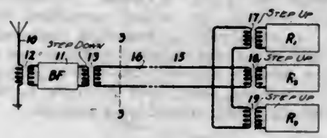
1. An agricultural machine having in combination, a frame, an axle rockably journaled on the frame and having both end portions projecting downwardly and provided at their terminations with inwardly extending spindles, supporting wheels mounted on said spindles, a seeding mechanism carried on the frame, means to operate the seeding mechanism by the traction power of one of said wheels, and means operable at will to rock said axle and raise the frame by the traction power of the opposite wheel.

1,688,035. VALVE. FRANK L. BRYANT, Joliet, Ill. Filed Dec. 31, 1925. Serial No. 78,505. 9 Claims. (Cl. 251—91.)



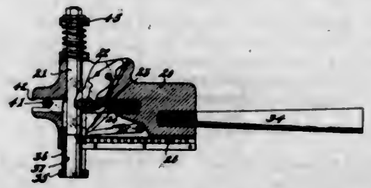
1. In a valve, a barrel having a straight cylindrical inlet passageway terminating in a port and an aligned outlet passageway terminating in the barrel in an inwardly flared port, a straight transverse rocking shaft in said barrel extending completely therethrough, a single valve member having a curved cylindrical bearing surface and a substantially flat back, said member being connected to the said shaft at the ends of the barrel and out of line with the ports, said barrel having a raised rim about one of said ports, said rim being faced off to form a valve seat to contact with said plug member to form a tight joint, said valve being adapted to be moved wholly to one side of said inlet and outlet when open to provide a minimum obstructon for the passage of material through the barrel.

1,688,036. RADIANT-ENERGY-TRANSMISSION SYSTEM. LEWIS M. CLEMENT, Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 5, 1924. Serial No. 730,159. 7 Claims. (Cl. 250—9.)



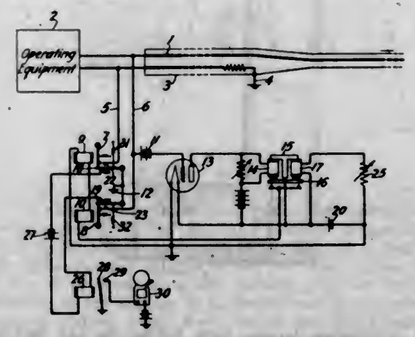
1. An electric wave transmission system comprising an antenna, a radio apparatus at a distance from said antenna, a line having normally high attenuation connected between said antenna and said radio apparatus and means including a step-down transformer connected to said line for enabling the transmission of high frequency waves without substantial attenuation.

1,688,037. MAGAZINE HAMMER. JOHN B. CROFOOT, Arlington Heights, Ill. Filed Aug. 26, 1926. Serial No. 131,580. 2 Claims. (Cl. 1—48.)



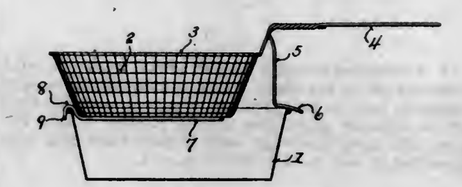
2. A magazine hammer comprising a hammer head including a reciprocating spring-held plunger; means in said head operable by reciprocation of said plunger for applying and driving a fastening element; a handle rigidly secured to said head; a striking member projecting from said head in alinement with said plunger, said striking member being provided with a sleeve slidable in said head and slidable over said plunger, said plunger operating through said striking member; and a toggle joint arrangement at each side of said head operatively connected with said striking member and said plunger for reciprocating the latter upon striking a blow, substantially as described.

1,688,038. PROTECTIVE DEVICE. AUSTEN M. CURTIS, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1926. Serial No. 105,731. 5 Claims. (Cl. 175—294.)



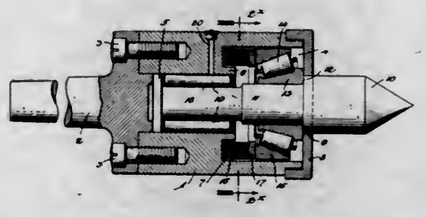
4. In a submarine signaling circuit, including a signaling conductor and a sea-earth conductor, means for dissipating any excess potential applied to said conductors, said means comprising a space discharge device, a marginal relay actuated by the output current of said discharge device whenever the potential of said discharge device exceeds a predetermined maximum, and a circuit completed by the actuation of said relay to reduce the potential of said conductors, and an alarm controlled by said circuit.

1,688,039. COOKING UTENSIL. ELMER E. DRUMM, Manitowoc, Wis., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Filed Feb. 5, 1926. Serial No. 86,245. 3 Claims. (Cl. 53—7.)



1. A cooking apparatus comprising an open top vessel, a basket having a handle extending from the top edge of the side walls, an arm extending downwardly from said handle and spaced from said side walls and terminating in a foot, a ring secured to the bottom of the basket and having its ends formed into hooks projecting outwardly from the bottom and located closely adjacent the bottom, the outer ends of the hooks being joined, whereby said basket may be placed within said vessel with the hooks located inside the vessel and the foot located outside, and said hooks and foot may be rested upon the rim of the vessel.

1,668,040. LATHE CENTER. WILLIAM H. FLINN, Detroit, Mich., assignor, by mesne assignments, to Precision Gauge & Tool Company, Detroit, Mich. Filed Apr. 20, 1925. Serial No. 24,478. 4 Claims. (Cl. 82—33.)

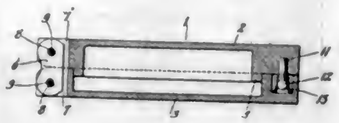


1. In a device of the class described, a housing, a center having limited longitudinal slidable movement in said housing, a longitudinally slidable tapered roller bearing including an external race, said center being mounted in said bearing, and resilient means exerting forward pressure against said external race and yieldably resisting the rearward movement thereof, said means effecting the automatic centering of said center through the medium of said external race.

1,688,041. BITUMINOUS MASTIC. CHARLES N. FORREST and JOHN STROTHER MILLER, Jr., Rahway, N. J., and CHARLES S. BABB, Chicago, Ill., assignors to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed July 12, 1922. Serial No. 574,546. 8 Claims. (Cl. 106—31.)

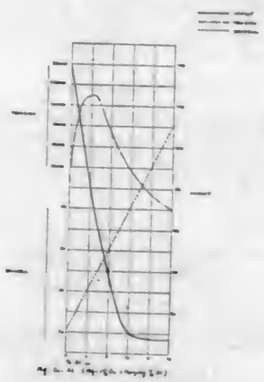
8. A bituminous mastic including 84% to 85% of a mineral aggregate the grains of which are between the limits of eight and sixty mesh screens, 14% to 16% of bitumen, and .6% to .7% of fibrous flock.

1,688,042. COMPACT BOX. HELMUTH JOHN GAESS, Palisade, N. J. Filed July 29, 1926. Serial No. 125,633. 5 Claims. (Cl. 220—31.)



1. A container having a top and bottom section, parallel channels cut in the edges of said sections, plates in said channels, holes in said plates in alignment with the holes of the adjacent plate, pins secured to each of said sections and passing through said aligned holes, said pins journaled in said holes to rotate therein.

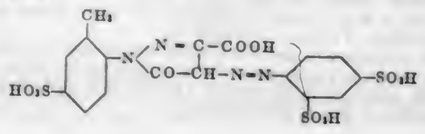
1,688,043. ALLOY. JOHN A. GANN, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Oct. 27, 1921. Serial No. 510,797. 4 Claims. (Cl. 75—1.)



1. As a new product, an alloy containing approximately ninety per cent of magnesium, nine per cent of aluminum, and less than one and one-half per cent of copper.

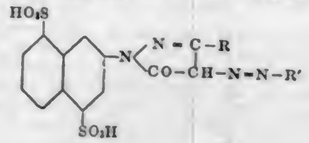
1,688,044. MONAZO DYES FROM PYRAZOLONES AND AMINOBENZENE-POLYSULPHONIC ACIDS. LEON W. GELLER, Hamburg, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1925. Serial No. 77,375. 10 Claims. (Cl. 260—87.)

5. As a new product, the monazo pyrazolone dyestuff which in the free state corresponds with the probable formula:

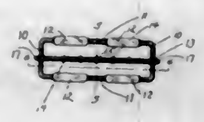


1,688,045. MONAZO DYES FROM DISULPHONAPHTHYL PYRAZOLONES AND O-AMINOHYDROXYBENZENES. LEON W. GELLER, Hamburg, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1925. Serial No. 77,377. 6 Claims. (Cl. 260—87.)

1. As new products, the monazo pyrazolone dyestuffs obtainable by combining a diazatized ortho-aminohydroxyaryl body of the benzene series which carries an acid group in the benzene nucleus with a 1-(4'.8'-disulfo-2'-naphthyl)-5-pyrazolone body; said dyestuffs in the free state corresponding with the probable formula:

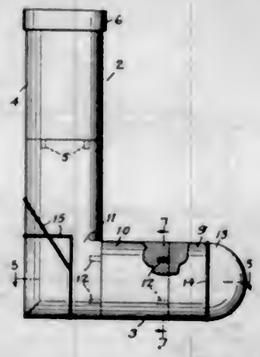


1,688,046. SLIDE BUCKLE. ROBERT J. HODGE, West Haven, Conn., assignor to The American Buckle Co., West Haven, Conn., a Corporation. Filed Apr. 28, 1927. Serial No. 187,286. 3 Claims. (Cl. 24—196.)



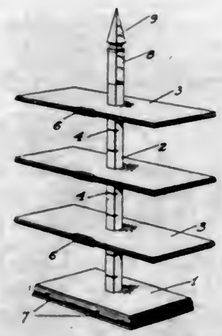
2. A slide-buckle, comprising a substantially-rectangular wire frame having two parallel side-bars and two parallel end-bars, both of the said side-bars being symmetrically-flattened on opposite sides of their centers to form strap-grips projecting into the frame in the plane thereof; and a slide-bar slidably mounted upon the end-bars of the frame and bent to form two lateral high-points substantially registering with the central portions of the said strap-grips.

1,688,047. STOCKING-DARNING FORM. HARRIETTE ENSLEY HODGSON, New York, N. Y. Filed Dec. 16, 1926. Serial No. 155,193. 5 Claims. (Cl. 223—14.)



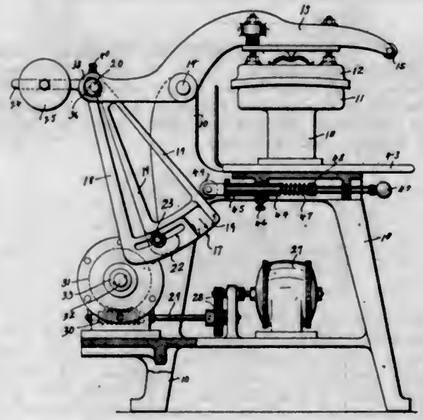
1. A stocking darning form having leg and foot portions at an angle to each other and provided with a guide at the base of the toe region to facilitate the sewing on of toe patches.

1,688,048. DISPLAY STAND. RICHARD K. IRVINE, Visalia, Calif. Filed July 23, 1927. Serial No. 208,026. 2 Claims. (Cl. 211—147.)



1. A display stand including a post, shelves slidable on the post, and flat plates wider than the post arranged under the shelves and separate therefrom; one face of the post having vertically spaced transverse slits to removably receive the adjacent ends of the plates.

1,688,049. POWER PRESS. JAMES CAMROD LEDBETTER, New York, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Aug. 14, 1925. Serial No. 50,150. 14 Claims. (Cl. 68—9.)



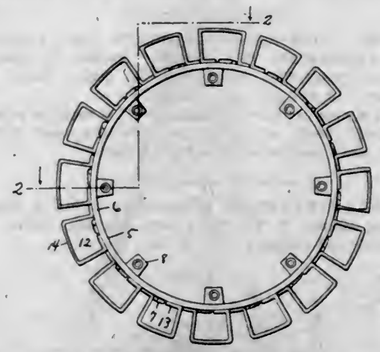
1. A pressing machine comprising in combination, motor means, a drive member connected with the motor means, a cam made with a working surface adapted to traverse the drive member which forces the cam to one side of the drive member, means forming part of the cam structure which enables it to travel back to its original position without being acted on by the drive member, pressing jaws adapted to be acted on by the cam and means forming part of the cam structure enabling it to be adjusted and regulated as to the time it will require to pass the roller.

1,688,050. EDGE-FOG PREVENTIVE FOR PHOTOGRAPHIC-FILM STRIPS. GUNNE LOWKRANTZ, Binghamton, N. Y., assignor to Ansco Photo-Products, Inc., Binghamton, N. Y. Filed Feb. 18, 1927. Serial No. 169,377. 6 Claims. (Cl. 95—9.)



1. In combination with a strip of photographic film, a protective strip therefor, the edges of said protective strip at points intersecting the edges of said film strip.

1,688,051. TRACTION RIM FOR AUTOMOBILES, TRUCKS, AND THE LIKE. RUSSELL LUDOWICI, Schenectady, N. Y. Filed May 19, 1927. Serial No. 192,053. 1 Claim. (Cl. 301—40.)

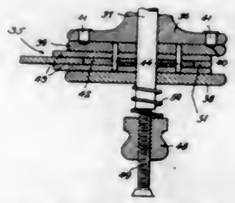


A device of the class described comprising a rim body formed with continuous side beads and a continuous central bead, and cleats disposed on the periphery of the rim body, each cleat comprising a base flange and a to the rim body diagonally thereof, a continuous reinforcing means disposed about the edges of the radial flange and across the ends of the base flange, said base flange being provided with a central bead to accommodate the central bead on the rim body and the ends of the base flange being curved outwardly from the rim body to fit over the continuous side beads.

1,688,052. ELECTRIC HEATER FAN. JOHN E. MARSDEN, Philadelphia, Pa. Original application filed Mar. 15, 1926, Serial No. 94,654. Divided and this application filed Oct. 10, 1927. Serial No. 225,189. 4 Claims. (Cl. 230—256.)

1. In a device of the class set forth, the combination with a pedestal, a turn table mounted thereon for

oscillation around a vertical axis, and a casing supported upon the turn table, of means to oscillate the casing with respect to the pedestal comprising a shaft, a disk fixed to the shaft, a stud extending from the face of the disk, a pair of disks mounted upon the shaft, one in contact with the first mentioned disk and having one or more pits into which the stud is adapted to project, the disks



of the pair being spaced from each other, an eccentric surrounding the shaft between said disks, means to hold the eccentric to one of the disks to prevent relative rotation thereof, an eccentric strap surrounding the eccentric, a connecting rod leading from the strap to the upper portion of the pedestal as an abutment, and means from the casing to rotate the shaft and the first mentioned disk.

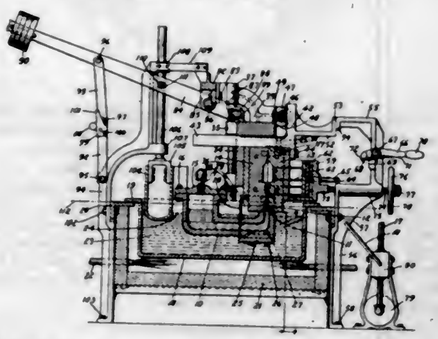
1,688,053. AGAR MEDICAL COMPOUND. GROVER C. MILLER, South Pasadena, and JOSEPH F. KURKA and LEWIS B. CHASE, Los Angeles, Calif., assignors to Kelp-OI Laboratories, Incorporated, Los Angeles, Calif., a Corporation of California. Filed May 14, 1927. Serial No. 191,545. 2 Claims. (Cl. 167—7.)

1. A medical compound including mineral oil, agar and lactic acid in an amount sufficient to be carried into the intestines to exert an inhibitive action on any toxic intestinal flora, and not less than 25/100 per cent.

1,688,054. TRIBARIUM ALUMINATE AND PROCESS OF PREPARING THE SAME. GEORGE W. MOREY, Chevy Chase, Md. Filed Nov. 23, 1925. Serial No. 71,024. 16 Claims. (Cl. 23—52.)

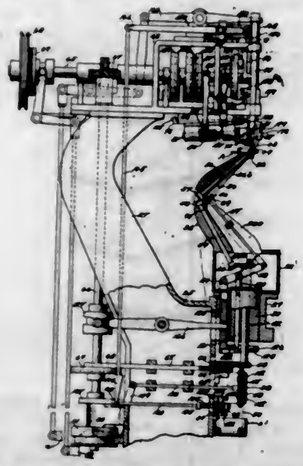
1. As a new product of manufacture, a furnace product consisting chiefly of tribarium aluminate and having present small amounts of free barium oxide.

1,688,055. DIE-CASTING MACHINE. LEWIS A. PALEY, Grand Island, N. Y. Filed Oct. 2, 1922. Serial No. 591,844. 18 Claims. (Cl. 2—69.)



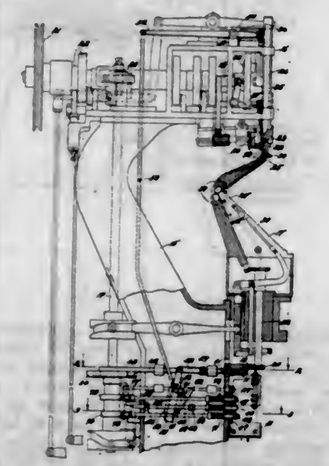
1. In a die-casting machine, a melting pot, a rigidly supported pressure vessel having a nozzle in the melting pot, a die having a gate opening adapted to register with said nozzle for the reception of a charge of metal from said vessel, and operating means adapted to remove the die from the nozzle and refill the vessel with metal by raising the metal level above the nozzle.

1,688,056. SHOE-SEWING MACHINE. JAMES H. REED, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 10, 1922, Serial No. 542,666. Renewed Apr. 12, 1927. 27 Claims. (Cl. 112—26.)



1. A lock stitch shoe sewing machine including, in combination, a straight hook needle and a shuttle having provision for suplying a shuttle thread, both located on one side of the work, and on the other side of the work a rotatable horn pierced at its end for the passage of the needle, a rotatable looper carried by the tip of said horn and adapted to form a loop about the hooked end of said needle, a cam actuated takeup and a cam actuated stitch setter adapted respectively for drawing the needle loop over the shuttle and setting the stitch, and a thread clamp cooperating with said takeup and stitch setter.

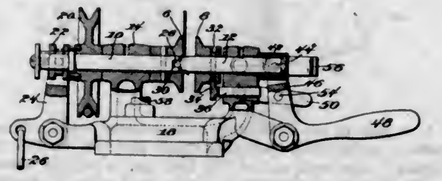
1,688,057. THREAD-MEASURING MECHANISM FOR SEWING MACHINES. JAMES H. REED, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 19, 1922. Serial No. 595,580. 7 Claims. (Cl. 112—58.)



1. In a sewing machine, in combination, thread guiding means, a pull-off member cooperating therewith, a lever, means for actuating the same, a slide guided on

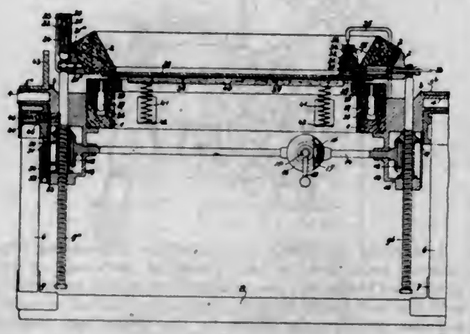
said lever and arranged to actuate said pull-off member, a presser foot, a lever connected with said presser foot, and a link connecting said lever and slide whereby the movement imparted to the pull-off member by the slide is varied in accordance with the thickness of the work.

1,688,058. COP-WINDING MACHINE. JAMES H. REED, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 19, 1925. Serial No. 76,480. 8 Claims. (Cl. 242—23.)



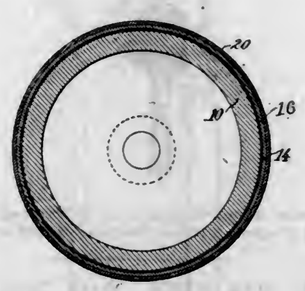
1. A cop winding machine having, in combination, two winding flanges between which the cop is wound, a driving shaft concentric with the flanges, a winding shaft upon which the cop is wound arranged in axial alignment with the driving shaft, bearings in which said shafts are mounted and in one of which the winding shaft is longitudinally movable from winding position between the flanges to a position permitting discharge of the cop, means for clamping the end of the thread to the winding shaft when in winding position, and coperating clutch faces on adjacent ends of the shafts to drive the winding shaft from the driving shaft.

1,688,059. PHOTO COPYING APPARATUS. WERNER SACK, Dusseldorf-Rath, Germany. Filed June 30, 1925, Serial No. 40,632, and in Germany June 26, 1924. 12 Claims. (Cl. 95—76.)



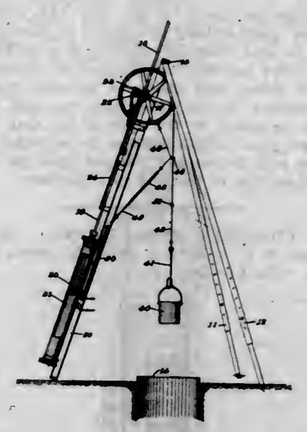
1. Photo copying apparatus comprising a supporting structure, a frame mounted in said supporting structure, a rubber cover supported in said frame, a second frame mounted in said supporting structure, a transparent plate fitted in said second frame, said transparent plate having an opening therein means for moving said frames towards and away from one another, said means serving to hold said frames when together and when separate, the edges of the rubber sheet being adapted to be pressed into close contact with the transparent plate so as to form an air tight joint between said rubber cover and said transparent plate, a valve casing with a valve seating fitted over said opening, said valve casing normally bearing on the transparent plate around said hole whilst the valve seating is opposite said opening but slightly removed therefrom, a valve body co-operating with said seat and slidably mounted therein said valve body being adapted to close and expose said opening, and a suction tube connected to said valve casing, said valve casing being adapted to form an air-tight joint with said transparent plate when the valve body exposes said opening.

1,688,060. MANUFACTURE OF ARTICLES OF CELLULOSE ESTERS AND OF THEIR COMPOSITIONS. KEVIE W. SCHWARTZ, New York, N. Y., assignor, by mesne assignments, to United Chromium, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Nov. 23, 1926. Serial No. 150,364. 4 Claims. (Cl. 18—47.)



1. The method of finishing cellulose derivative products and the like, comprising subjecting the same to contact between tools or implements having a chromuim surface.

1,688,061. HOISTING APPARATUS. HERMAN R. SMITH, Brooklyn, and PAUL D. CASE, Pelham Manor, N. Y., assignors to Charles R. Gow Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 19, 1923. Serial No. 675,563. 5 Claims. (Cl. 254—145.)

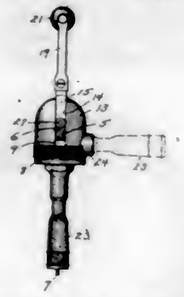


1. In a hoisting apparatus, in combination, a supporting structure, a hoisting drum carried thereby, a pinion to rotate the drum, a rack meshing with the pinion to rotate the same, fluid pressure mechanism to reciprocate the rack, fluid pressure brake mechanism associated with the hoisting drum, and manually operable valve mechanism common to said fluid pressure mechanisms to control the same.

1,688,062. DENTAL AMALGAM MIXER. GIUSEPPE E. TERRANOVA, New Haven, Conn. Filed June 29, 1927. Serial No. 202,257. 4 Claims. (Cl. 259—75.)

1. A dental amalgam mixer, comprising a frame, a head mounted on a spindle extending through said frame, said head formed with an annular cam-groove, a slotted cap connected with said frame and enclosing said head, a

rocker entering the slot in the cap and provided at its ends with rollers traveling in the cam-groove in the head,



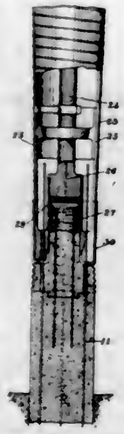
spring arms connected with said rocker, and means for mounting a capsule between the ends of said arms.

1,688,063. SPAR SPLICE. FRANK TRAINOR, Seattle, Wash. Filed Oct. 19, 1926. Serial No. 142,535. 1 Claim. (Cl. 20—99.)



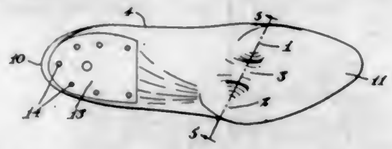
In a splice for spars or the like, two substantially semi-circular comparatively thin pieces of material having flanged edges and openings therein of a sufficient size to permit spurs entering and holding in the spar within the said splice, said pieces of material also having smaller openings therein to permit the said pieces of material to be spiked to the ends of the spar, and said pieces of material being adaptable to be bolted together through the said flanges and clamped upon the said spar to join two sections of the said spar together.

1,688,064. CONCRETE PILE. MAXWELL M. UPSON, Englewood, N. J. Filed Jan. 29, 1925. Serial No. 5,436. 2 Claims. (Cl. 61—56.)



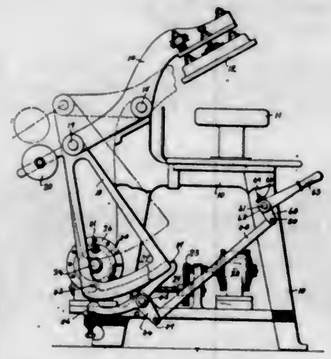
1. The method of making a concrete pile which comprises precasting a lower section of the pile with a driving head portion, driving the said lower section after the driving head portion has attained safe driving strength and while the portion thereof below the driving head is comparatively green, and casting a pile section in place on the driving head portion of the precast section.

1,688,065. LAST. PAUL C. WOLFER, Wellesley, Mass. Filed July 8, 1927. Serial No. 204,231. 5 Claims. (Cl. 12—136.)



1. A last of the kind described provided with a longitudinal instep arch extending from the ball of the toe portion to the rear end of the heel, and a pair of apexes on the bottom of said last to cause pockets to be formed in the shoe made on said last to accommodate the inner and outer balls of the foot.

1,688,066. POWER PRESS. BASIL J. YANCHENKO, New York, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Aug. 14, 1925. Serial No. 50,173. 9 Claims. (Cl. 68—9.)

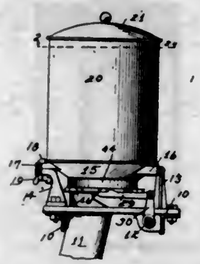


1. A press comprising in combination, cooperating wide opening press jaws, a cam connected with one of the press jaws to produce jaw compression, means cooperating with the cam urging it to an inoperative position, a motor, a roller continuously driven by the motor and adapted to engage the cam, power closing means operated by the motor to close the press jaws, means to permit the cam to pass by the roller without being engaged by said roller, operator actuated means to cause the cam to be brought into position to be engaged by the power closing means and subsequently engaged by the roller aforesaid to produce compression between the jaws.

1,688,067. SEED DROPPER. RICHARD V. BARRY, Ottumwa, Iowa. Filed Feb. 16, 1927. Serial No. 168,645. 2 Claims. (Cl. 221—122.)

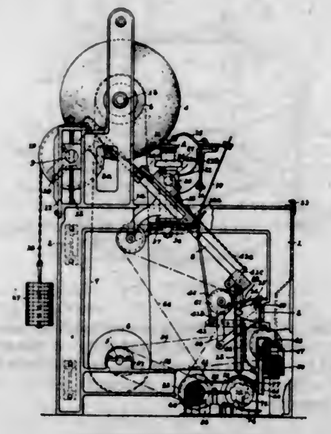
1. In combination, a planter runner frame having a dropping spout, a pair of upwardly projecting brackets carried by said frame, a seed box having a bottom plate pivotally mounted to one of said brackets, means for detachably securing the seed box to the other one of said brackets, said bottom plate being provided with a pair of annular grooves and having its central portion provided with a downwardly extending cylindrical lug, the lower end of said lug terminating in a contracted portion of

angular formation, a seed plate rotatively mounted on the cylindrical portion of said lug, a bearing plate supported on the angular portion of said lug to support said seed plate, said bearing plate having an opening in communication with said spout, a bolt projected through the downwardly extending lug of said bottom plate to de-



tachably support said bearing plate and said seed plate, a toothed ring rotatively mounted on the periphery of said bearing plate, means for detachably connecting said toothed ring and said seed plate, and means for engaging the teeth of said ring for intermittently rotating said seed plate.

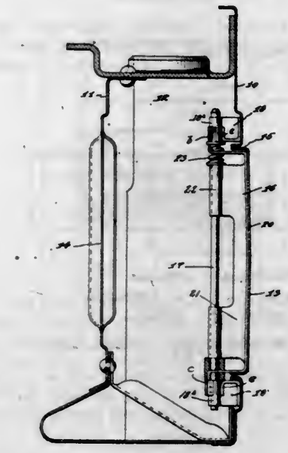
1,688,068. GLASS-BEVELING MACHINE. BERTRAND E. BEYER, Paterson, N. J., assignor to American Bevel Glass Company, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 19, 1925. Serial No. 51,194. 13 Claims. (Cl. 51—105.)



9. In combination, a rotated operating wheel having a peripheral working surface, means to support the work including a work-holder, a guideway for said means extending transversely of the axis of the wheel and along which said means is movable to bring the work against said surface and with reference to which the work-holder is adjustable to different inclinations, and supporting means for the guideway adjustable to support the same in different planes angularly related to each other and coinciding with chords of a circle whose center coincides with said axis.

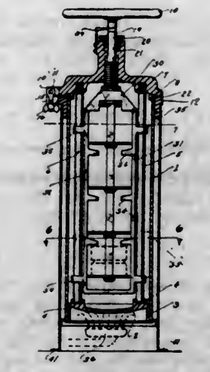
1,688,069. VENTILATOR. JAMES H. CLARK, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 14, 1926. Serial No. 115,982. 11 Claims. (Cl. 98—4.)

1. In a motor bus, a wall provided with an opening, a pintle journaled in bearings in said wall, a ventilator shutter carried by said pintle for controlling the passage of air through the bus, a bracket carried by said shutter, lugs mounted on the bracket, lugs carried by the said wall



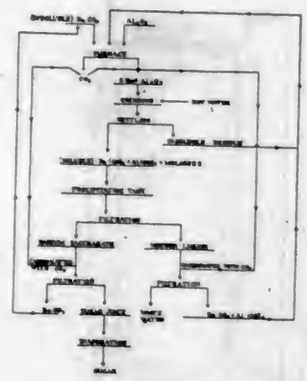
and cooperating with the lugs aforesaid, to limit the movement of the shutter between predetermined points.

1,688,070. DENTURE PRESS. LEONARD A. CREMER, Portland, Oreg., assignor of one-half to Harry Semler, Portland, Oreg. Filed Dec. 28, 1926. Serial No. 157,490. 3 Claims. (Cl. 18—7.)



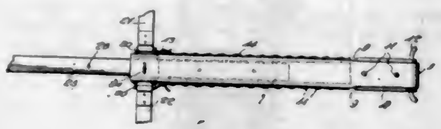
1. A device of the character described embodying a heat resisting vessel including a cover removably secured thereto, removable flask supports pendant from said cover normally residing within said vessel, plates carried by said supports and one below the other, side members vertically shiftable relative to said plates, including relatively stationary rods forming guides for said side members, said side members being each provided with individual means projecting above individual plates adapted for bearing upon flasks resting thereupon when said side members are lowered, and screw means extending through said cover for raising and lowering said side members.

1,688,071. CYCLIC PROCESS OF USING BARIUM COMPOUNDS IN THE MANUFACTURE OF SUGAR. HENRY W. DAHLBERG, Denver, Colo. Filed Dec. 16, 1925. Serial No. 75,770. 8 Claims. (Cl. 127—47.)



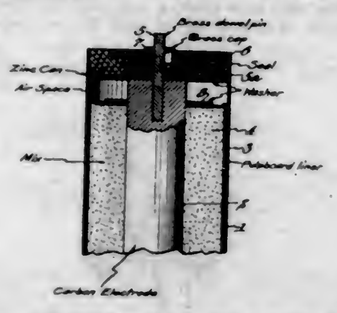
1. The cyclic process of manufacturing sugar and using barium as an extractive agent, which process consists in converting barytic materials which are insoluble in water into water soluble barytic materials by heating insoluble barytic material with alumina and thereby producing a barium aluminate compound containing water soluble barytic material, utilizing the water soluble content of said barium aluminate compound to treat molasses and thereby producing a barium saccharate, separating the barytic content from the sugar content as a water insoluble material, and reusing said water insoluble material in producing a water soluble barium aluminate compound.

1,688,072. HAME TUG. JAMES DWYER, Cleghorn, Iowa. Filed Mar. 8, 1928. Serial No. 260,058. 3 Claims. (Cl. 54—33.)



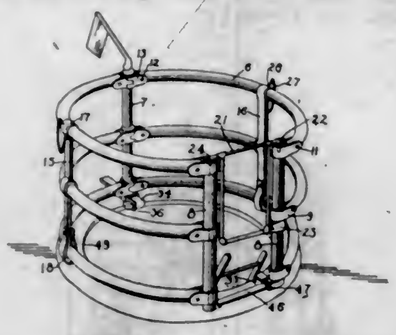
1. A hame tug of substantially flat tubular form to receive a trace, said tug having its upper and lower sides longitudinally split at their rear ends to permit separation of the two halves of the tug at the tug at the rear end of the latter, two opposed metal plates lying agninst the inner surfaces of the vertical sides of said tug at the rear end thereof, said plates having lateral flanges at their upper and lower edges lying against the inner surfaces of said upper and lower sides of the tug and extending to the splits of the latter, back strap and belly band attaching means having rivet portions passed through said upper and lower sides of the tug at the inner sides of said splits and through the flanges of the innermost of said plates, means securing the flanges of the outermost of said plates to said upper and lower sides of the tug at the outer sides of said splits, said plates and the outer vertical side of the tug being formed with alined screw-receiving openings, and a trace-anchoring screw passing through said openings and threaded into the opening of said inner plate.

1,688,073. PRIMARY CELL. CHARLES A. GILLINGHAM, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Jan. 21, 1926. Serial No. 82,780. 4 Claims. (Cl. 136—133.)



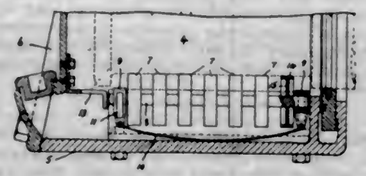
1. A dry cell comprising a zinc cup, a carbon rod electrode therein terminating below the top of the zinc cup, seal supporting means resting on the top of said carbon electrode and sealing means above said seal supporting means and joined to said carbon electrode.

1,688,074. MANHOLE SAFETY CAGE. JESS GOFF, Los Angeles, Calif., assignor of one-third to O. R. Bartram, Los Angeles, Calif. Filed Mar. 21, 1928. Serial No. 263,263. 16 Claims. (Cl. 94—38.)



1. A safety cage for a manhole, comprising spaced front and rear vertical bars and a plurality of bars pivotally connected at each end to one of said vertical bars for movement about horizontal axes to optionally fold or extend the cage to operative position.

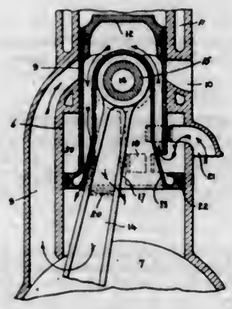
1,688,075. LUBRICATING APPARATUS. PERCIVAL GEORGE GRAHAM, Enfield, near Sydney, New South Wales, Australia. Filed Dec. 3, 1925, Serial No. 73,011, and in Australia Nov. 2, 1925. 1 Claim (Cl. 308—91.)



A device of the character described including in combination, a journal, a box arranged thereabout, a pair of spaced parallel longitudinally extending and vertically

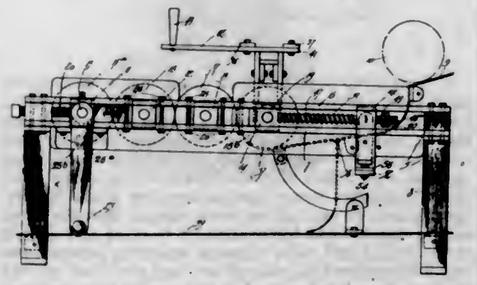
arranged guides on the floor of the box, a spindle, a series of rollers thereon, a pair of bearings for accommodating the ends of the spindle, opposed distance pieces projecting from each of the bearings and contacting with the inner surface of the guides, spaced arms depending from each of the bearings, a bowed spring having its medial portion engaging the floor of the bearing with its respective ends pivotally connected between the arms of the bearings for normally holding the rollers in yielding engagement with the journal, and a device secured to the inner surface of the outer wall of the box and engaging the outer end of the spindle for preventing longitudinal movement thereof, substantially as and for the purposes set forth.

1,688,076. PISTON. GEORGE WENTWORTH GRAYSON, Sydney, New South Wales, Australia, assignor to Grayson Engine Company Limited, Sydney, New South Wales, Australia, a Company of New South Wales, Australia. Filed Aug. 3, 1926, Serial No. 126,829, and in Australia Aug. 28, 1925. 3 Claims. (Cl. 123—171.)



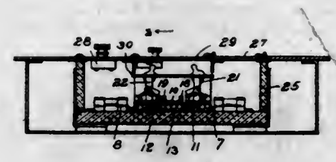
1. In an internal combustion engine, a stepped cylinder, a hollow stepped piston therein, a centrally situated dividing wall in said piston, air inlet ports in the piston walls on one side of said dividing wall, outlet valves in the base of the piston on the other side of said wall and air inlet ports in the enlarged part of said stepped cylinder.

1,688,077. MEANS FOR LABELING CANNED AND BOTTLED GOODS. WILLIAM CLIFTON HART, Adelaide, South Australia, Australia. Filed Apr. 21, 1926, Serial No. 103,623, and in Australia July 22, 1925. 8 Claims. (Cl. 101—38.)



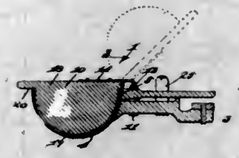
1. Apparatus for the purposes specified, comprising the combination of a printing roller for imparting colors or multicolors directly to a cam body or bottle, a primary roller, a distributing roller, said distributing roller receiving the color from the primary roller and delivering it to the printing roller, and the said printing roller carrying colour wells and the label pattern, the colour wells feeding the pattern of the label and being of the same area as the said label patterns.

1,688,078. SWITCH PANEL. WILLIAM E. HAWLEY, Pittsburgh, Pa. Filed July 25, 1923. Serial No. 653,736. 1 Claim. (Cl. 175—371.)



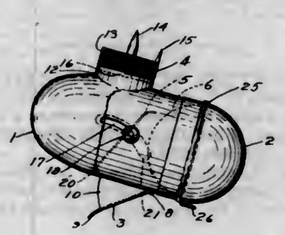
A switch panel unit including a block of insulating material provided with channels in one face thereof, spaced flanges forming a channel in the opposite face, switches mounted on said opposite face adjacent said flanges and adapted to be electrically connected to bus bars received within said channels and slots formed in said block adjacent said switches for receiving fuse connections.

1,688,079. MULTIPLE ICE-CREAM DISHER. OTTO HINZ and RUSSELL MERRELL, Los Angeles, Calif. Filed Apr. 27, 1927. Serial No. 186,919. 7 Claims. (Cl. 107—48.)



6. A device of the character described, comprising an open scoop and a partition pivotally mounted on the rim of said scoop for movement optionally out of or into the scoop to present either a single open compartment or a plurality of open compartments.

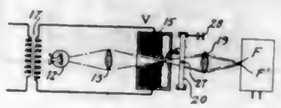
1,688,080. MEASURING DEVICE. TOM HOSETH, Seattle, Wash. Filed Jan. 17, 1923, Serial No. 613,156. Renewed Aug. 22, 1928. 1 Claim. (Cl. 221—95.)



In a measuring device of the class described, a casing, a threaded tubular extension at one side of the casing and opening into the interior thereof, a point in the center of the said extension for locating the same in the side of a can or the like, a knife edge projecting from the edge of the said extension for cutting a circular opening in the side of a can or the like as the device is rotated, a spout on

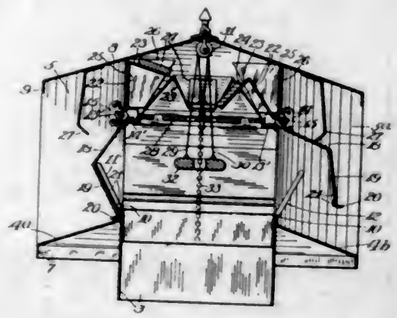
the opposite side of the said casing, said spout being adjustable to open or close, an adjustable baffle plate within the said casing and substantially in front of the said tubular extension and variable means in one end of the said casing for regulating the amount of a substance that may pass therethrough.

1,688,081. TRANSMISSION OF PICTURES BY ELECTRICITY. HERBERT E. IVES, Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Mar. 2, 1925. Serial No. 12,693. 10 Claims. (Cl. 178—7.)



5. In an optical system for picture transmission apparatus, means for forming an image on a recording element, and a piece of Iceland spar for doubling said image.

1,688,082. EXHAUST VENTILATOR. PAUL R. JORDAN, Indianapolis, Ind. Filed Feb. 15, 1926. Serial No. 88,403. 3 Claims. (Cl. 98—85.)



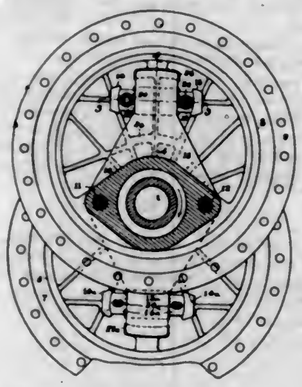
1. An exhaust ventilator including a pyramidal bottom having a quadrangular opening therein, the upper portion of the bottom having outward-facing valve seats thereon, a neck connected to the upper portion of said bottom, four partitions secured radially upon said bottom, a roof secured to the tops of the partitions, and four valves pivotally supported above the valve seats respectively, by the partitions and movable by external air-pressure to the seats.

1,688,083. PROCESS OF MAKING OLEFINE ALCOHOLS. FRED W. LOMMEN, Pittsburgh, Pa., assignor to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed June 7, 1926. Serial No. 114,316. 7 Claims. (Cl. 260—156.)

1. Process of making an olefine alcohol which comprises bringing the corresponding aldehyde into contact with a paraffin alcohol in the presence of aluminum butoxide as a catalyst.

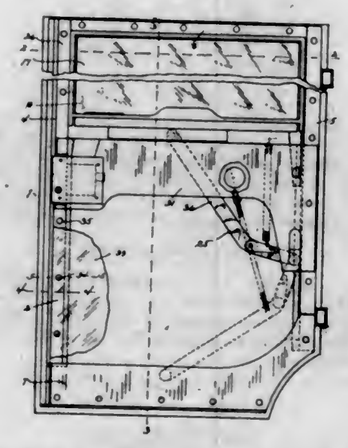
1,688,084. DRIVING MEANS FOR ROTARY DEVICES. JOSEPH R. MAHAN and JOHN B. PICARD, Toledo, Ohio, assignors to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 18, 1927. Serial No. 184,577. 6 Claims. (Cl. 74—1.)

1. A rotary driving element, a rotary driven element, an arm projecting from one element, a pair of lugs carried by the other element and having the arm between them, and wedging means seated against the lugs, and clamping the



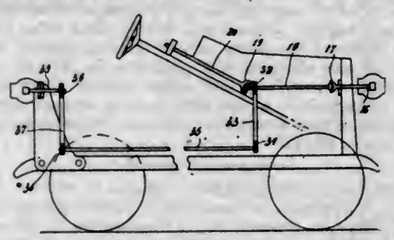
arm to the element not bearing the arm and preventing the arm from moving toward one of the lugs.

1,688,085. ALL-METAL DOOR CONSTRUCTION. WILLIAM MARSHALL, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 10, 1924. Serial No. 749,017. 2 Claims. (Cl. 296—44.)



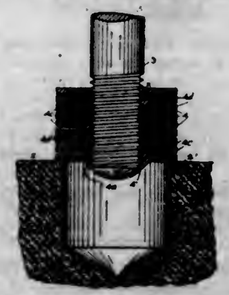
1. A door for vehicle bodies comprising a sheet metal panel having an area substantially equal to the area of the door and having a window opening therein at the upper end thereof, and a reinforcing and supporting frame for said panel including two spaced pillars and three spaced cross members, said pillars extending longitudinally of the panel at the side edges thereof and at the sides of the window opening, one of said pillars being shorter than the other and having one end terminating short of an end of said panel, two of said cross members extending between and terminally secured to said pillars, and the other of said cross members being secured to and serving as a continuation of the shorter of the two pillars and having portions secured to said panel and to the other of said pillars at points beyond an end of said short pillars whereby a portion of said last mentioned cross member constitutes an extension or continuation of said short pillar for the longitudinal reinforcement of said panel and door.

1,688,086. DIRECTION INDICATOR FOR VEHICLES. SIDNEY WILLIAM MATHEW, Waiuta, New Zealand. Filed June 5, 1926, Serial No. 113,943, and in New Zealand June 8, 1925. 1 Claim. (Cl. 116—43.)
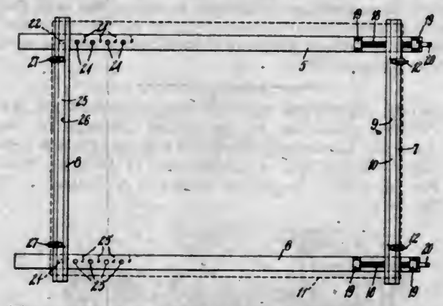


A direction indicator for vehicles comprising a polysided drum having an opening in each of said sides closed by translucent members bearing signals, a casing for enclosing said drum and permitting the same to rotate therein, said casing having a longitudinal opening in its side wall with which the openings in the drum may register, a transparent plate covering the opening in said casing, a tubular member extending through an opening in an end wall of the casing and rigid with the casing and extending through an opening in the adjacent end wall of said drum and having said extended end lying within said drum, whereby said end of the drum is journalled, an outwardly extending trunnion rigid with the other end wall of the drum and extending through an opening in said casing, whereby the other end of said drum is journalled, a drum actuating device comprising a rotary shaft operatively connected with said trunnion, a dial through which one end of said shaft extends and is rotatably journalled, resilient crank handle mounted on the end of said shaft and adjacent one face of said dial, said dial having a circumferential series of spaced openings therein covered by translucent plates bearing signal indicators corresponding to signal indicators on said drum, an opening in an arm of said crank handle to align with openings in said dial to indicate the position of said drum with respect to the opening in said casing, notches on the periphery of said dial, and a projection on said crank handle for co-operating with said notches to lock the crank handle in adjusted positions, and a light mounted behind said dial.

1,688,087. MEANS FOR ANCHORING BOLTS. RICHARD A. MIRZAN, Syracuse, N. Y. Filed July 12, 1927. Serial No. 205,199. 4 Claims. (Cl. 72—105.)



3. An anchor for bolts and the like including a bolt-like member, a disk having a central opening to receive said member and disposed at substantially right angles to the longitudinal axis of the member, means to rigidly secure the disk to the member, said disk being formed of bendable material and adapted to engage the face of a body having a hole of less diameter than that of the disk, whereby upon driving of the member into the hole, the outer portion of the disk will be bent to be at substantially an acute angle to the longitudinal axis of the member, and means to facilitate bending the disk upon driving of the member.

1,688,088. PROCESS FOR STRAIGHTENING RUGS. JACOB S. NAKASHIAN, Watertown, Mass. Filed Aug. 16, 1926. Serial No. 129,636. 1 Claim. (Cl. 68—11.)



The process of straightening a rug having oppositely disposed edges of different lengths, which consists in suspending the rug and taking up the slack thereof in the direction of the shorter edge, then dampening the rug along the portion adjacent the shorter of said edges, then lightly beating the dampened portion of the rug to stretch said portion longitudinally of said edge, then taking up the slack of said dampened portion, then causing the rug to dry while suspended under tension.

1,688,089. PUMPING EQUIPMENT. JOHN PENROD and ROBERT D. THOMPSON, Okmulgee, Okla. Filed Mar. 20, 1925. Serial No. 17,019. 3 Claims. (Cl. 103—179.)



1. In a pump having a working barrel, a shell and a standing valve cage, a body having a plurality of stepped surfaces, externally threaded for engagement by the shell, the working barrel and the standing valve gage of a pump.

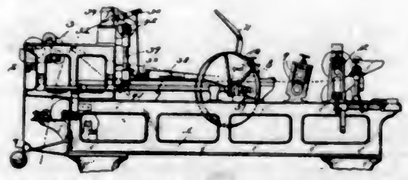
1,688,090. EXTENDIBLE BRACELET LINK. EUGEN PRESTINARI, Irvington, N. J., assignor to Gemex Company, Newark, N. J., a Corporation of New Jersey. Filed Nov. 10, 1927. Serial No. 232,428. 2 Claims. (Cl. 24—71.)



2. An extension for a bracelet strap having a pair of strap sections, comprising two link members hinged together to fold one upon the other, one of the strap sections being connected to one of the said link members, the other

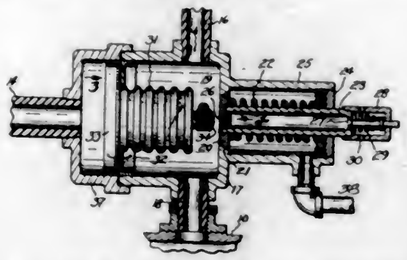
link member having opposite side walls each provided with spaced openings, said openings having a shape other than round, and the other strap section having a cross bar with extending opposite ends shaped to enter the said wall openings when the strap end is in other than working position and to prevent withdrawal therefrom when the strap is in working position.

1,688,091. SLITTING DEVICE FOR BAG-MAKING MACHINES. WILLIAM M. SEITZINGER, Chicago, Ill., assignor, by mesne assignments, to Marshall Field & Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 5, 1925. Serial No. 67,042. 12 Claims. (Cl. 93—33.)



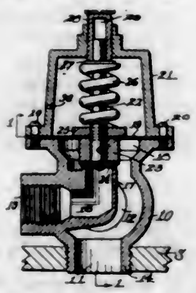
1. In combination with a bag making machine having a former for forming a tube from which the bags are to be produced, a slitting device for slitting the tube longitudinally comprising moving knives positioned inside said tubes.

1,688,092. COMBINATION RELIEF VALVE. CHETWOOD SMITH, Worcester, Mass. Filed Mar. 20, 1922. Serial No. 545,097. 5 Claims. (Cl. 236—20.)



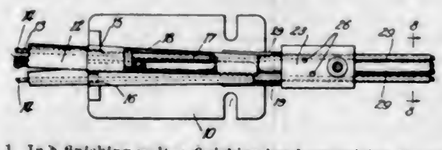
1. In a heating system, a relief valve constructed to open said system for an increase in either pressure or temperature in said system; and means to convey waste liquid from the heating system, said valve including a loosely fitted member past which liquid may be forced to relieve the system if the waste connection is clogged.

1,688,093. DIAPHRAGM-TYPE RELIEF VALVE. CHETWOOD SMITH, Worcester, Mass. Filed July 25, 1923. Serial No. 653,675. 1 Claim. (Cl. 137—53.)



A diaphragm relief valve comprising a casing having a water space and having inlet, outlet and waste openings, said casing having a portion projecting inwardly into the water space thereof and having an angular passage therein connected with said waste opening, a relief valve normally closing said angular waste passage, a diaphragm on which said relief valve is mounted, and spring means to seat said valve yieldingly on said projection to normally close said angular passage, said inlet opening being positioned to direct the inflow of fluid directly against said projection and alongside said projection at the end and both sides thereof, and said outlet opening being positioned perpendicular to said inlet opening, whereby active circulation of fluid within said water space and about said projection is effected.

1,688,094. FINISHING WELT. LESTER B. STROUT, Chicago, Ill., assignor to Woodward & Cochey Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1924. Serial No. 738,954. 4 Claims. (Cl. 155—184.)



1. In a finishing welt, a finishing bead comprising in combination a core consisting of a strand of loosely twisted fiber and covering material surrounding said core and constructed and arranged to hold said core in firmly compressed condition and in a shape to give the bead the desired contour.

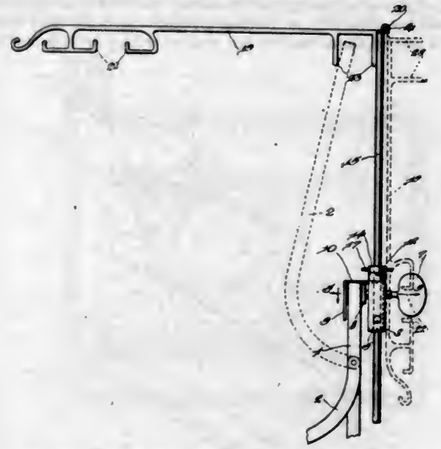
1,688,095. DOOR RETAINER. WILLIS STUTSON, Winnetka, Ill. Filed Oct. 15, 1925. Serial No. 62,497. 10 Claims. (Cl. 16—86.)

1. The combination with the hinged door of an automobile mounted to swing about a substantially vertical axis and its frame, of a yielding dovetail construction comprising a receiving device and a projecting device which engages the receiving device when the door is closed, one of said devices comprising a spring tongue yieldable vertically about an axis transverse to the general plane of the door, said spring tongue having a greater extent transversely of said plane than its horizontal extent longitudinally of said plane.

1,688,096. BRACKET. JOHN A. TESK, Chicago, Ill. Filed Nov. 10, 1924. Serial No. 748,969. 1 Claim. (Cl. 155—188.)

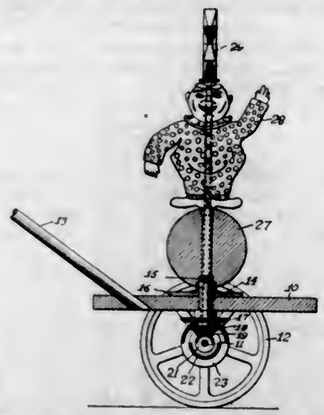
In combination with a chair having a pivoted tray member thereon, a clamp removably secured to the back of said chair, a standard adjustably supported by said clamp, a bracket arm having one end thereof pivotally connected to the upper end of said standard and adapted to lie in parallel relation with said standard when in inoperative position, and spaced fingers carried by said bracket arm adjacent the pivoted end thereof, one of said fingers contacting with said standard when said bracket arm is moved to a right angular position relative to said standard, said finger engaging said standard to hold said arm in said

right angular position, said fingers being adapted to receive between them a portion of said pivoted tray mem-



ber whereby said pivoted member may be retained in substantially parallel relation to said standard.

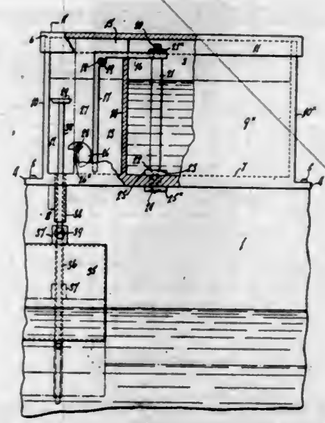
1,688,097. MECHANICAL TOY. JOHN W. THOMPSON, Oak Park, Ill., assignor to Marshall Field & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 13, 1926. Serial No. 128,941. 1 Claim. (Cl. 46—45.)



In a mechanical toy, a platform, wheels and axle supporting said platform, a plurality of objects attractive to the eye separately mounted on said platform and each adapted to move independently of the other periodically in reverse directions so as to give a combined visual effect, mutilated gears on said axle, other gears connected to said objects and each adapted to be driven by two of the mutilated gears alternately to effect a reversal in movement of said objects, adjacent objects moving in opposite directions.

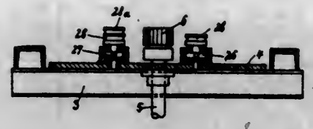
1,688,098. MEANS OR APPARATUS FOR SUPPLYING LIQUID DISINFECTANTS TO THE WATER CONTAINED IN TANKS USED FOR WATER-CLOSETS AND OTHER LIKE FLUSHING PURPOSES. GEORGE ARTHUR TURNER, Leeds, England, assignor to H. & M. Patents Limited, Leeds, England, a Company of Great Britain and Northern Ireland. Filed May 12, 1928, Serial No. 277,279, and in Great Britain May 20, 1927. 3 Claims. (Cl. 4—227.)

1. Apparatus for supplying disinfectants to water contained in a flushing cistern having in combination a receptacle for the disinfectant provided with a discharge opening communicating with the said cistern, a discharge valve for opening and closing the opening, said valve forming part of a vertical rod, means arranged within the receptacle for intermittently raising the valve rod, a cam



mounted loosely upon a spindle, an independent float working within the cistern, a rod upon which the float is adjustably fixed having a disc secured to its upper end for intermittently actuating the cam for raising the discharge valve.

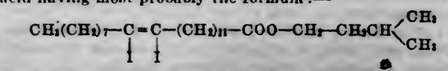
1,688,099. DEVICE FOR BENDING IRON RODS. ANTON WAGENBACH, Elberfeld, Germany. Filed Apr. 30, 1926, Serial No. 105,840, and in Germany Nov. 18, 1924. 4 Claims. (Cl. 153—54.)



1. A device for bending iron rods, comprising in combination a substantially horizontal bearing plate, a substantially vertical bending shaft extending through said bearing plate, a cramping roll fastened to said shaft above said plate, and adjustable rolls adapted to be fastened to said plate, one of said adjustable rolls being provided with means for holding the iron rod at different heights, as for instance with more than one guiding groove in its circumference.

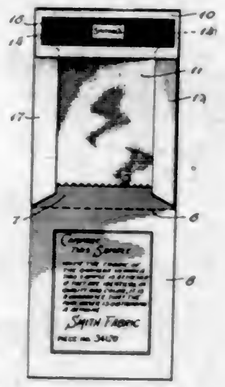
1,688,100. ISOAMYL ESTER OF THE DI-IODIDE OF BEHENOLIC ACID AND PROCESS OF PRODUCING SAME. AUGUST WINGLER, Elberfeld, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Filed May 11, 1926, Serial No. 108,412, and in Germany May 12, 1925. 2 Claims. (Cl. 260—106.)

1. The new isoamyl ester of the di-iodide of behenolic acid having most probably the formula:—



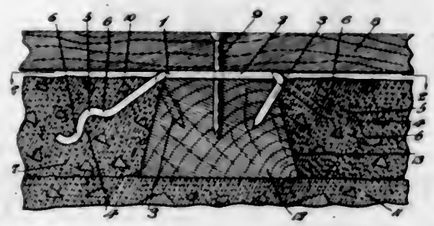
which is a limpid oil solidifying at 6° C. containing iodin and being a useful iodin preparation in medicine.

1,688,101. IDENTIFICATION DEVICE. FRANCIS E. ACKERMAN, New Canaan, Conn., assignor to Julius Forstmann & Co., Inc., Passaic, N. J., a Corporation of Delaware. Filed Dec. 18, 1925. Serial No. 76,156. 4 Claims. (Cl. 206—82.)



1. In an identification device for fabrics, a body portion including front and back members one of which has a flap at one end under which an edge of a swatch and the free end of the other member are capable of being engaged, means extending through said back member and said flap for securing the swatch thereto, and other flaps on said back member having ends thereof loosely engageable under the first named flap and with portions of said swatch to space said front member from said swatch when the free end of said front member is inserted beneath said first named flap.

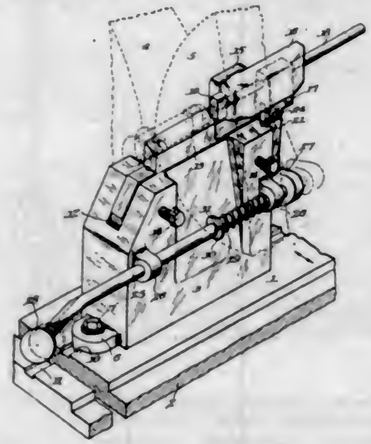
1,688,102. SLEEPER ANCHOR. WILLIAM H. ANDREWS, Los Angeles, Calif. Filed Nov. 9, 1927. Serial No. 232,006. 3 Claims. (Cl. 72—101.)



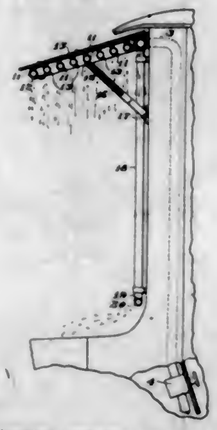
1. An anchor for floor sleepers, comprising a top horizontal body portion having one end thereof pointed and bent inwardly and downwardly at an acute angle to said body and adapted to be driven into one side of a sleeper adjacent the top thereof, and having its other end extending in an opposite direction outwardly and downwardly at an obtuse angle to said horizontal body portion, the latter being of a length equal to the width of the top of a sleeper.

1,688,103. WORK REST AND EJECTING DEVICE FOR GRINDING MACHINES. WALTER D. ARCHEA, Norwood, Ohio, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 18, 1924. Serial No. 687,081. 10 Claims. (Cl. 51—215.)

1. The herein described attachment for grinding machines, comprising a standard 3; a work-rest 13 carried thereby, a guideway 16 also carried by said standard; a rod 18 supported and guided in said guideway and provided with a head or bunter 19; a block 17 carried by and adjustable upon the rod 18; a lever 21 fulcrumed in a support carried by the standard and having elongated openings at its ends; an actuating-rod 25 carried and guided in supports upon the standard; a laterally-projecting arm 27 carried by one end of the actuating-rod and extending into the opening in one end of lever 21; a pin 24 carried by block 17 and seated in the opening in the opposite end of said lever; and a spring 29 serving to move rod 25 in an outward direction, and to restore the parts to their normal position after manual movement of said rod inwardly and release thereof.

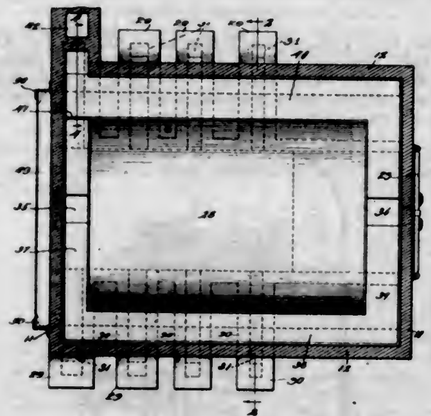


1,688,104. WINDSHIELD CLEANER. PAUL ERIC BANG, Newton, Mass. Filed Dec. 7, 1927. Serial No. 238,451. 4 Claims. (Cl. 20—40.5.)



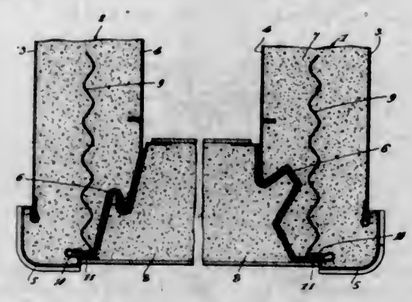
1. The combination with the sun visor and windshield of a vehicle, of a conduit extending outwardly from the top of said windshield at each upper side thereof, a conduit extending between said first two conduits at the top of and closely adjacent to said windshield and having perforations in the bottom thereof, a plurality of tubes attached to said first two conduits and in close relation with said sun visor, said tubes being arranged in staggered relation and each tube extending but partially across said visor, each of said tubes having perforations in their bottoms, a conduit extending from one of the said first two conduits downwardly and at one side of said windshield, and then transversely of said windshield adjacent to the bottom thereof and having perforations in the bottom of said transverse portion, and means to transmit air under pressure to said conduits and tubes.

1,688,105. FURNACE. MICHAL BARAN, Harvey, Ill. Filed Nov. 19, 1927. Serial No. 234,360. 3 Claims. (Cl. 263—42.)



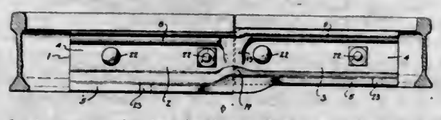
2. A furnace of the type defined and having a combustion chamber and fire box, a muffle chamber above the combustion chamber, an arch above the muffle chamber forming a passage for hot gases, said combustion chamber communicating with the space beneath the arch and above the muffle chamber through tortuous passage ways in a vertical plane, partition walls forming the passage ways, the walls of the furnace having openings which communicate with the horizontal sections of the tortuous passage ways for clean out purposes, said partition walls constituting shelves or trays upon which ashes and soot collects, and certain of the clean out openings being above the partition walls to give access to the same.

1,688,106. FIREPROOF SAFE. CHARLES J. BATES, JR., Englewood, N. J., assignor to The Mosler Safe Company, Hamilton, Ohio, a Corporation of New York. Filed July 30, 1926. Serial No. 125,854. 2 Claims. (Cl. 109—2.)



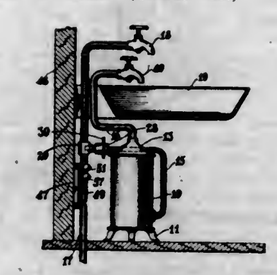
1. A safe of the character described, including, in combination, jamb walls forming a door opening, inner walls connected to the inner ends of the jamb walls, outer walls connected to the outer edges of the jamb walls, insulating material between the outer walls and the inner and jamb walls, and a corrugated metallic collar embedded in said insulating material, said collar extending from adjacent the front edges of said jamb walls rearwardly thereof and completely surrounding said door opening, and so positioned as to distribute any cracks which may occur in said filling in the vicinity of said jamb walls.

1,688,107. COMPROMISE ANGLE BAR. WILLIAM BENDER, Downers Grove, Ill., assignor to Ramapo Ajax Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1927, Serial No. 185,769. Renewed Sept. 5, 1928. 10 Claims. (Cl. 238—167.)



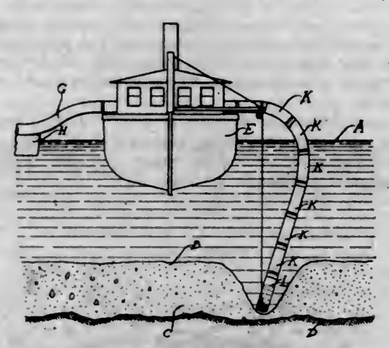
1. A compromise bar having a first part adapted to fit the fishing section of a first rail and a second part adapted to fit the fishing section of a second rail of different size from the first rail, said bar having an offset portion between said parts, said parts and offset portion being drop forged by the same operation from a single billet.

1,688,108. ELECTRIC HOT-WATER HEATER. BETTY BERGER, New York, N. Y. Filed Jan. 16, 1928. Serial No. 246,959. 3 Claims. (Cl. 219—39.)



1. An electric hot water heater, comprising a housing with a water coil, guides connected with the interior of the housing, a heating unit slidably mounted on the guides, and a rod attached to the heating unit and extended from the housing and arranged upon motion for raising or lowering the heating unit so as to be nearer or further from the water coil.

1,688,109. METALLIC-VALUE RECOVERER. FRED FORREST BERRY, Los Angeles, Calif. Filed May 10, 1927. Serial No. 190,368. 6 Claims. (Cl. 37—63.)



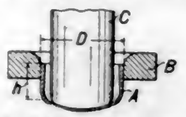
1. A device for capturing detritus from submerged deposits comprising a conduit having a plurality of passages, induction means for one of said passages, means for discharging liquid under pressure from the remaining passages, a head for said conduit having an intake for the induction passage and adjacent thereto an outlet for the discharge passages, mechanical fingers movably mounted at the mouth of said intake, and means to agitate said fingers so as to prevent solids lodging at said intake.

1,688,110. TROLLING HEAD. WILLIAM C. BOGART, Los Angeles, Calif. Filed Mar. 9, 1927. Serial No. 173,890. 5 Claims. (Cl. 43—42.)



1. A trolling device comprising in combination a solid head structure, a plurality of feathers having their stems secured to the rear end of said structure, a covering of parchment also secured to the rear end, said parchment extending over the stems of the feathers and behind the head structure, completely encircling the stems of the feathers and being flexible.

1,688,111. MANUFACTURING KETTLE-SHAPED HOLLOW BODIES. KARL BÖHLE, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 4, 1925, Serial No. 73,241, and in Germany Dec. 5, 1924. 1 Claim. (Cl. 113—51.)



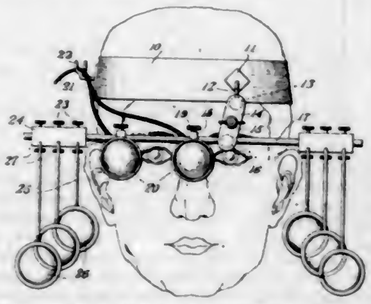
The process of manufacturing kettle shaped bodies from a blank of thick sheet metal, which consists in forcing said blank through a series of open dies of diminishing diameters by means of plungers, each plunger having a diameter substantially less than the least clear gage of the die with which it is used diminished by twice the wall thickness at the free end of the blank resulting from the pressing operation, the blank engaging ends of the plungers used in successive pressing operations being of different diameters, whereby the position of the dangerous section of the blank is progressively altered.

1,688,112. SALINE TRI-SODIUM PHOSPHATE AND PROCESS FOR ITS MANUFACTURE. CHARLES F. BOOTH and ARTHUR B. GERBER, Anniston, Ala., and PAUL LOGUE, Logue, Mo. Refiling of application Serial No. 726,919, filed July 19, 1924. This application filed June 25, 1928. Serial No. 288,287. 16 Claims. (Cl. 23—107.)

1. The herein described process for the manufacture of a sodium chloride tri-sodium phosphate composition, which consists in combining phosphoric acid, sodium carbonate, and caustic soda with sodium chloride and water.

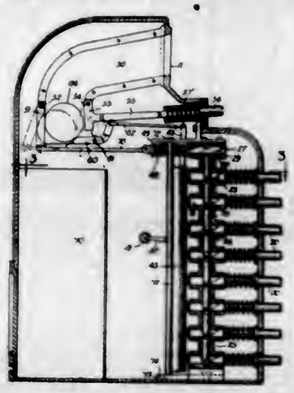
10. The herein described composition of matter consisting of a compound of sodium phosphate and sodium chloride.

1,688,113. SURGICAL HEADLIGHT. MAX BORNKESSEL, New York, N. Y. Filed June 9, 1927. Serial No. 197,751. 2 Claims. (Cl. 128—23.)



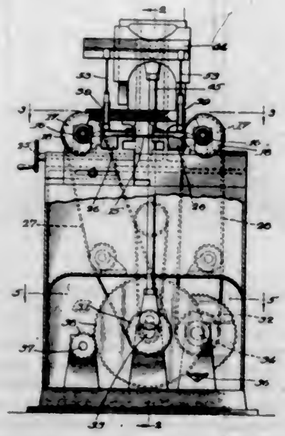
1. A diagnostic head-lamp comprising a head band, a double-ball joint on said head band, a support rod carried by said double-ball joint, a plurality of electric lamps longitudinally adjustable on said rod, and a plurality of lenses longitudinally and pivotally adjustable on said rod, said lenses being adapted to selectively swing in front of the operator's eye.

1,688,114. PREPAYMENT MESSAGE RECEIVING AND DELIVERING DEVICE. RUDOLPH BUCHNER, Sydney, New South Wales, Australia. Filed Aug. 23, 1926, Serial No. 131,063, and in Australia Aug. 25, 1925. 5 Claims. (Cl. 194—70.)



1. A prepayment message receiving and delivering machine comprising a housing, a plurality of members adapted to carry memoranda and to expose the names of addressees and pivot-mounted to swing in a horizontal plane into and out of said housing, spring latches for automatically locking said members in the in-position, and means for releasing any one of said members but not more than one at a time, said means including manually operated plungers co-acting with said latches, and operable only when a coin is inserted in a coin slot in the housing.

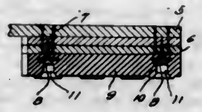
1,688,115. BOX-BLANK FOLDING AND FASTENING MACHINE. ARTHUR TALBOT CAMPBELL, Seattle, Wash., assignor to Band-Bound Box Company, Seattle, Wash., a Corporation of Washington. Filed Sept. 30, 1926. Serial No. 138,614. 15 Claims. (Cl. 1—14.)



12. In machinery for folding and assembling box parts together, preliminary to the insertion of fasening devices to hold the parts in box form, the combination of means

for supporting the parts in position to be folded and assembled, means for engaging the sides of the box to fold them toward each other, and instrumentalities for causing the operation of said means, in combination with a device to push the upper cleat of the box into engagement with the cleats of the side walls, and mechanism automatically controlled to insert nails through the interlocking ends of the top cleat and the side cleats, after said folding and assembling operation has brought the parts into final relation to each other.

1,688,116. RUBBER HEEL. JOSEPH CELENKO, Bedford, Ohio. Filed Feb. 7, 1928. Serial No. 252,513. 2 Claims. (Cl. 36—35.)

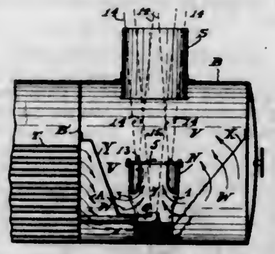


1. In combination with a shoe provided with a leather heel, of a plurality of nails distributed in groups for holding the heel to the shoe, the nails in each group being relatively very closely grouped, a rubber heel having a plurality of apertures, and screws extending through the apertures and embedded in the first mentioned heels between the nails of the groups.

1,688,117. COMPOSITION OF MATTER FOR TRANSFER DESIGNS. OLIVER L. DAVIS, Glen Ridge, N. J., assignor to Joseph Walker Co., Irvington, N. J. Filed Apr. 7, 1927. Serial No. 181,893. 1 Claim. (Cl. 134—36.)

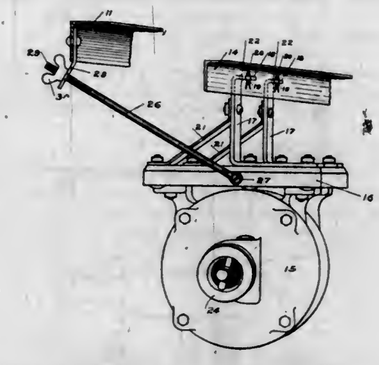
A composition of matter for making transfer designs comprising Cumar gum, rosin, carnauba wax, stearic acid and a coloring matter consisting of ultramarine blue ink and a special white ink containing Titanox and litho varnish, the Titanox containing, in turn, titanium oxide and precipitated barium sulphate.

1,688,118. FORCED-DRAFT DEVICE. CHARLES DUCAS, New York, N. Y. Filed Sept. 1, 1926. Serial No. 132,994. 2 Claims. (Cl. 230—96.)



1. In an exhaust nozzle, in combination, a boiler chamber having a discharge stack, means for passage of the gases of combustion from the heating means of the boiler into said boiler chamber, a nozzle disposed in said boiler chamber for cooperation with said stack and having a central chamber provided with a circular discharge opening and having ports for entrance of gases of combustion from the boiler chamber into said central chamber, an annular chamber disposed around said central chamber and having an annular discharge opening and an annular jet cap for the ends of said central and outer chambers, said cap having a relatively large circular opening for discharge of gases of combustion from the central chamber and projecting across the outlet of said annular steam chamber so as to leave a narrow annular opening around and adjacent to said circular opening for discharge of steam from the outer chamber at high velocity, passages connecting said annular chamber with engine cylinders appurtenant to the boiler for providing unbroken passage of steam from said cylinders to said annular discharge opening, the steam discharged from said annular opening being in the form of a hollow cone, the gases of combustion being drawn from the boiler chamber through said inlet ports of the central chamber by entrainment of said hollow cone of steam and discharged through said circular outlet opening of the central chamber in the form of a column of gases of combustion surrounded by the hollow cone of steam, and a jet located in the axial line of said nozzle at the bottom of said central chamber adjacent to the inlet ports thereof and connected to the steam generating means of the boiler for projecting a stream of steam into said chamber whereby the gases of combustion are drawn through said ports and discharged through said circular outlet in a column of mingled gases and steam by entrainment of said stream of steam for providing draft when said engine cylinders are not operating.

1,688,119. MOTOR SUPPORT FOR WASHING MACHINES. JOSEPH H. FEDLER, Kansas City, Mo., assignor, by mesne assignments, to Modern Laundry Machine Manufacturing Company, a Corporation of Missouri. Filed June 1, 1926. Serial No. 113,063. 2 Claims. (Cl. 308—11.)

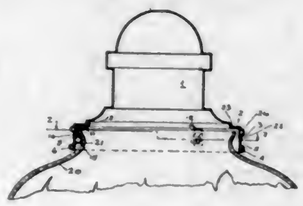


1. In a washing machine, a frame member, means for suspending a motor from said frame, said means including a motor supporting block, a motor secured to said block, a bracket attached at one end to said block, the other end of said bracket being provided with an offset T-shaped portion, the leg of which is detachably mounted in the frame to provide a pivotal support for the block and motor unit, and means for holding said motor supporting block in various positions of angular adjustment, said holding means comprising a rod pivotally connected to the block at one end, the other end of said rod being threaded, the threaded end of said rod extending through an opening in the frame, and means on the threaded end of the rod for limiting the movement of the rod through the opening in one direction, the rod being free to move through the opening in the opposite direction.

1,688,120. LIGHTING FIXTURE. JOSEPH L. JAFFE and FREDERICK WENING, Cleveland, Ohio; said Frederick Wening assignor to said Joseph L. Jaffe, Cleveland, Ohio. Filed Dec. 2, 1922. Serial No. 604,463. 5 Claims. (Cl. 240—132.)

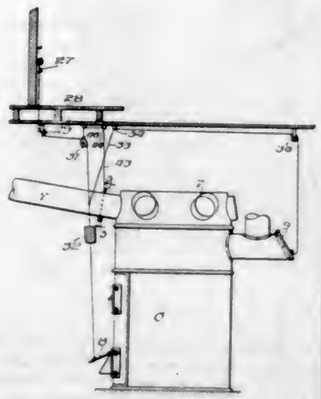
2. In a lighting fixture, the combination of a holder provided near the bottom with a horizontal flange and a globe-receiving flange depending therefrom, said flanges provided adjacent the angle therebetween with a series

of double slots, a series of locking clips comprising angled straps mounted to extend through the upper slots and balanced so as to have their lower ends normally hanging substantially flush with said depending flange



but being movable inwardly, by contact with the upper edge of the globe, into globe-holding position, and a locking ring adapted to fit over said depending flange to secure said clips in their globe-holding position.

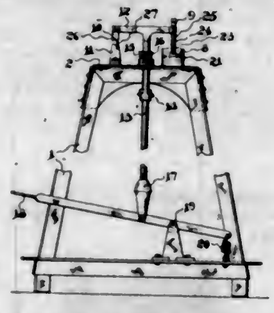
1,688,121. SAFETY DEVICE FOR HOT-AIR FURNACES. JOHN M. LARSON, Chicago, Ill., assignor to National Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed June 9, 1926. Serial No. 114,606. 5 Claims. (Cl. 126—287.5.)



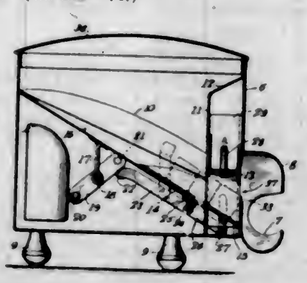
1. The combination with a hot air furnace having heat controlling means and a hot air pipe leading from said furnace for supplying hot air to a room, of means for controlling said heat controlling means to prevent excessive rise of temperature, comprising a pair of strips having overlapping ends secured together by fusible material, said strips when thus secured together forming a bar extending through said hot air pipe, with the overlapping ends located in said hot air pipe, means for preventing withdrawal of said bar from said hot air pipe so long as the two strips are connected together but permitting the withdrawal of both strips when the fusible material fuses, and connections between one of said strips and said heat controlling means.

1,688,122. FUSE CUTTING, SPLITTING, AND CAPPING MACHINE. JOHN MCLEAN, Lime, Oreg. Filed Apr. 4, 1927, Serial No. 180,906, and in Canada Jan. 17, 1927. 9 Claims. (Cl. 86—22.)

1. A fuse preparing machine comprising a table; fuse cutting and splitting means supported thereon; cap crimping means supported thereon; a guide spool round which the fuse material may be led from the cutting and splitting means to the cap crimping means; and means for simultaneously actuating the cutting and splitting and the cap crimping means.

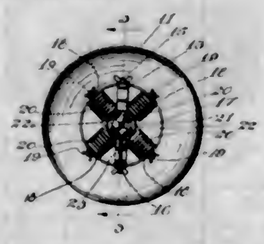


1,688,123. SUGAR DISPENSER. BARUCH LEVY, Brooklyn, N. Y. Filed Apr. 26, 1928. Serial No. 272,930. 5 Claims. (Cl. 312—71.)



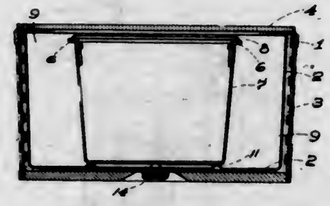
2. A sugar dispensing device comprising a casing having an aperture in a wall thereof, a chute positioned in the casing, a yoke to which the chute is pivoted, said yoke having a lip lying normally below the lower edge of the aperture, and means associated with the yoke to raise the lip to a position in alignment with the aperture.

1,688,124. INFRA-RED-RAY GENERATOR. HECTOR P. MACLAGAN, Oak Park, Ill., assignor to McIntosh Electrical Corporation, Chicago, Ill., a Corporation of Delaware. Filed Jan. 3, 1927. Serial No. 158,574. 29 Claims. (Cl. 174—177.)



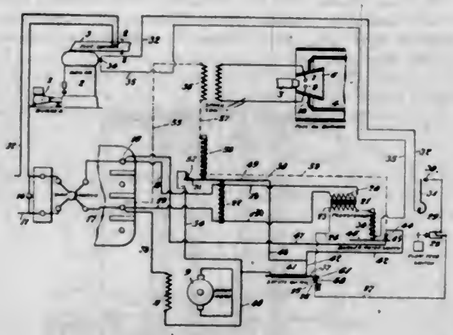
23. A heating element for an infra-red ray generator comprising a core of refractory insulating material having a groove in its outer surface, a resistance wire in said groove, and refractory insulating material filling said groove outside of said wire, said filling material having a depth distributing the heating effect of said wire through the outer portion of said core and through said filling material to heat them substantially uniformly to a dull red heat.

1,688,125. REFRIGERATOR BASKET. SAMUEL A. MEGEATH, New York, N. Y. Filed June 15, 1927. Serial No. 199,049. 5 Claims. (Cl. 62—75.)



1. A refrigerator basket, a portion of the interior chamber of which is adapted for the reception of ice, a drain-port leading through the bottom of said basket, ribs formed in the floor of said basket and radially disposed relative to said port so as to direct the flow of water thereto, and a food compartment removably positioned within said chamber having its lower face spaced from the bottom of said chamber by said ribs for the passage of water through the space thus formed to said drain port.

1,688,126. METHOD OF AND APPARATUS FOR CONTROL OF LIQUID-FUEL BURNERS. ROBERT F. METCALFE, Brooklyn, N. Y., assignor to Socony Burner Corporation, New York, N. Y., a Corporation of Delaware. Filed May 6, 1926. Serial No. 107,112. 16 Claims. (Cl. 158—28.)



1. In combination, a liquid fuel burner, a combustion chamber therein for receiving a mixture of gases capable of combustion, electrical contacts positioned in said chamber and adapted to have the gases pass around and between them, an electrical control system for said burner, said system having included therein means for passing sparks across said contacts for igniting the mixture of gases, and another means in said electrical system controlled by the resistance offered by the gases to the passing of sparks between said contacts while the sparking continues for varying said electrical control system to stop the operation of said burner.

1,688,127. PROCESS FOR IMPREGNATING METAL LAYERS. NIKOLAUS MEURER, Berlin-Neu-Tempelhof, Germany, assignor to Metallogen Gesellschaft mit beschränkter Haftung, Berlin-Neukolln, Germany. Filed Dec. 20, 1922, Serial No. 608,126, and in Germany Jan. 28, 1922. 1 Claim. (Cl. 91—68.)

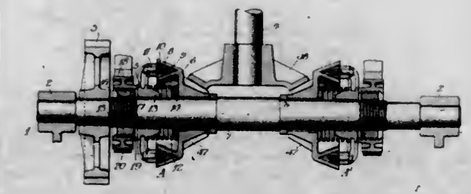
The process for forming a composite metal surface comprised of two or more layers of one or more kinds of metal involving the steps of applying a layer of metal by spraying fluid metal or depositing vaporized metal, then closing the pores of such layer by treating it at different time intervals with solutions of various substance, whereby the substance of one solution upon contact with the substance of the prior solution in the pores of the metal will chemicall react to form a third substance in the pores of the metal and be retained therein as a precipitate, then applying further layers of metal to the surface of the layer, the pores of which have been treated, and repeating the process of closing the pores of each layer directly after it has been applied.

1,688,128. COMPOUND STRUCTURE. ERNEST MOCCETTI, deceased, New York, N. Y., by Louise Moccetti, administratrix, New York, N. Y. Filed May 5, 1927. Serial No. 189,052. 17 Claims. (Cl. 72—61.)



7. A reinforced concrete girder comprising a web portion and a flanged portion extending along its zone of greatest tensile stress, spaced main tensile reinforcing members embedded in and extending along said flanged portion, coupling elements spaced along said main tensile reinforcing members and connecting them through the intervening concrete, and web reinforcing members embedded in and spaced along said girder, said web reinforcing members having portions looped about said coupling elements and parts extending across said web portion.

1,688,129. FRICTION-CLUTCH TRANSMISSION. PHILO A. ORTON, Chicago, Ill., assignor to Orton Crane & Shovel Co., Huntington, Ind., a Corporation of Indiana. Filed Apr. 19, 1926. Serial No. 102,980. 8 Claims. (Cl. 192—36.)

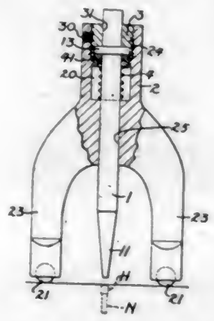


1. In a friction clutch transmission of the type specified, the combination of a shaft, means for rotating said shaft, a rotatable member, a friction clutch on said shaft comprising members, one normally loose thereon and the other splined thereto, means for operating said clutch comprising a thrust member having screw-threaded engagement with said shaft, a brake-drum on said thrust member, a brake-band adjusted thereto, manually controlled means for applying said brake-band, and a driving connection between said loose clutch member and said rotatable member.

1,688,130. NAIL SET. OLE OLSEN, Seattle, Wash. Refiled for abandoned application Serial No. 89,946, filed Feb. 23, 1926. This application filed Feb. 29, 1928. Serial No. 257,841. 6 Claims. (Cl. 145—46.)

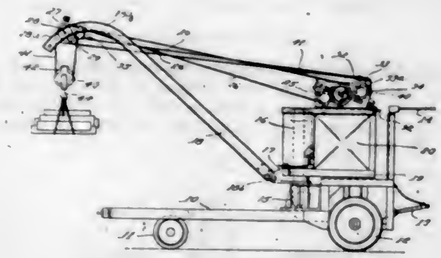
1. A hand tool for setting nails comprising a nail set, a frame comprising a pair of widely spaced floor engaging legs having means well above the floor for connecting said

legs and guiding said nail set for reciprocatory movement, and means yieldably supporting said nail set in said frame



with its tip in predetermined position above the floor and nails therein and spaced from all parts of the frame.

1,688,131. INDUSTRIAL TRUCK. EDWARD J. ABBE, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 27, 1923. Serial No. 615,203. 7 Claims. (Cl. 254—185.)

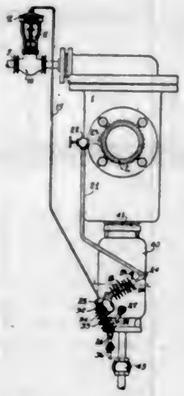


1. In a winding mechanism of the character described, the combination of a pair of drums, a frame supporting the drums, a motor mounted on the frame, said drums and motor having the axes thereof parallel, a pair of aligned shafts having the axes thereof extending transversely to the drum axes, one of said shafts being disposed above the axis of one of the drums, while the other is disposed below the axis of the other drum, like worm gears associated with each of the drums, worms mounted on said shafts for driving the drums in opposite directions, clutch means disposed between said worm shafts and gear means drivingly connecting the motor to said clutch means.

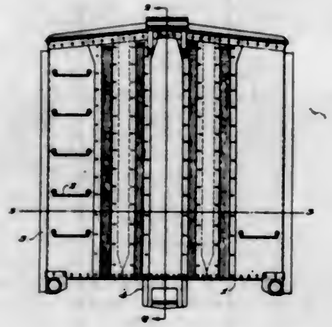
1,688,132. DESUPERHEATER CONTROL. JOSEPH M. BARRETT, Fostoria, Ohio, assignor to The Swartwout Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 3, 1927. Serial No. 158,590. 12 Claims. (Cl. 122—479.)

1. The method of controlling the flow of water to a desuperheater dependent upon the rate of accumulation of water collected below the desuperheater out of the path of steam but in contact with superheated steam including throttling the flow of water to the desuperheater when the quantity of water collected exceeds a given amount.

3. In combination, a desuperheater, a receiver disposed below the desuperheater and in open communication therewith but protected from the flow of steam through the desuperheater and means controlling the flow of water into the desuperheater dependent upon the water level in the receiver.



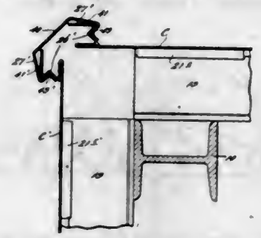
1,688,133. CAR-WALL STRUCTURE. CHARLES DAVID BONSALL, Parnassus, Pa., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 26, 1925. Serial No. 58,845. 17 Claims. (Cl. 105—410.)



1. In a wall for a railway car, a metallic plate having an inwardly projecting corrugation formed therein which terminates within the lower edge but extends to the upper edge of the plate, and a metallic sheet having an outwardly projecting corrugation formed therein which terminates within the upper edge but extends to the lower edge of the sheet, said corrugations being positioned opposite to each other.

1,688,134. BUILDING CONSTRUCTION. ACHILLE BRAUNSTEIN, New York, N. Y., assignor to Anchor Corrugating Construction Co., New York, N. Y., a Corporation of New York. Original application filed Feb. 25, 1926, Serial No. 90,447. Divided and this application filed Nov. 17, 1927. Serial No. 233,751. 1 Claim. (Cl. 189—34.)

In building construction, two sheets located on adjacent walls at a corner of a building, inturned retaining flanges at the side edges of said sheets at the corner of the building, a cam flange extending from the outer edge of each retaining flange in a direction parallel to the sheet on which the retaining flange is formed, and a resilient cover-piece



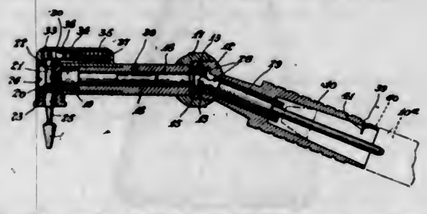
adapted to snap over the cam flanges of the sheets and embrace the retaining flanges thereof.

1,688,135. FISHING REEL. FRANCIS M. CASE, Cleveland Heights, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Original application filed Mar. 31, 1923, Serial No. 629,040. Divided and this application filed Nov. 19, 1926. Serial No. 149,395. 14 Claims. (Cl. 242—84.4.)



3. A fishing reel, comprising spaced end heads, a line receiving spool rotatable therebetween, and level wind mechanism including a shaft structure extending between said end heads and being movable endwise through an aperture in one of said end heads, a removable closure for the aperture in said end head, and yielding means interposed between said shaft structure and said closure.

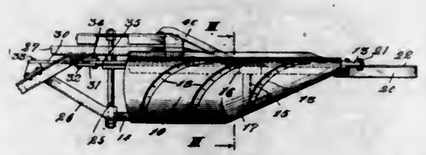
1,688,136. DENTAL TOOL HOLDER. HERMAN E. S. CHAYES and AUGUST P. JURGENSEN, New York, N. Y., assignors to Chayes Dental Instrument Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 10, 1925. Serial No. 61,644. 2 Claims. (Cl. 32—11.)



1. In a dental angle piece, a drill-carrying member, a chuck mounted in said member for receiving a drill, a recess in said member, a latching member slidable in said recess for retaining the drill, said latching member having an upwardly and forwardly extending arm and a sliding cover secured to the forwardly extending arm of said latching member and normally closing said recess.

1,688,137. SEPARATOR PLOW FOR CANE HARVESTERS AND THE LIKE. FREDERICK C. DOUGLAS WILKES and FRANCIS K. FLYNN, Watertown, Wis., assignors, by mesne assignments, to Luce Cane Harvester Corporation, New York, N. Y., a Corporation of Delaware. Filed July 15, 1919. Serial No. 310,956. 20 Claims. (Cl. 56—119.)

1. In apparatus of the character described, the combination with a cane harvester or the like including forwardly extending pick-up chains, of a separator plow mounted at one side of and in advance of the pick-up chains for free pivotal movement in a vertical plane, and means for maintaining the forward end of said plow adjacent to the ground surface irrespective of any irregularities



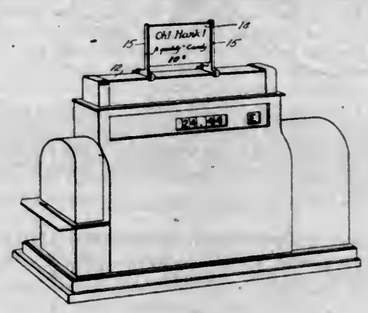
thereof, said plow having a substantially straight inside surface and an outwardly and rearwardly diverging outside surface.

1,688,138. ARTIFICIAL PLANK. WILLIAM H. DROEGE, Fort Wayne, Ind. Filed July 23, 1925. Serial No. 45,041. 1 Claim. (Cl. 106—31.)



A plank composed of a mixture of 8 to 11% of bitumen, 16 to 25% of stone dust, 54 to 71% of finely divided gravel and 5 to 10% of powdered iron.

1,688,139. DISPLAY SIGN AND MEANS FOR MOUNTING THE SAME. ROBERT G. FISHEL, Chicago, Ill. Filed Jan. 13, 1926. Serial No. 80,893. 1 Claim. (Cl. 40—125.)

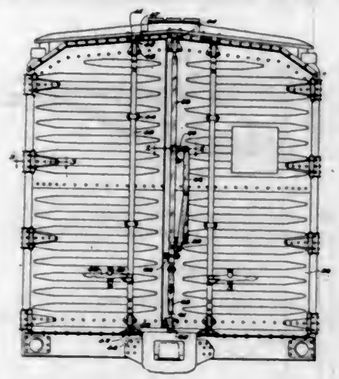


In an advertising device, a pair of integral standards each having a flat foot at its base, said standards having longitudinal slots in their opposed sides, with an advertising plate adapted to be received in said slots, said foot having a guide formed therein, a clamping lug on said foot, a second clamping member sliding in said guide, and screw means enclosed in said foot for actuating said clamping member toward said lug, said screw means having a kerf without engaging shoulders to unscrew the same.

1,688,140. AUTOMOBILE END DOOR. GARTH G. GILPIN, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 18, 1926. Serial No. 89,109. 5 Claims. (Cl. 189—46.)

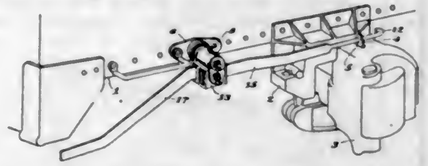
1. An end wall for a railway car comprising two swinging doors, each hinged to a side wall of the car and overlapping at the middle of the car, a stiffener secured to the inner edge of the inside door projecting beyond the outer face thereof, a stiffener secured to the inner edge of the outside door overlapping and engaging both sides of the

stiffener on the other door, a plurality of latches, each pivotally mounted on one of said doors to engage or disengage



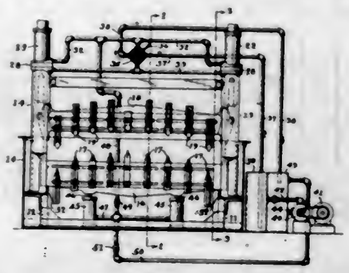
registering apertures in the stiffeners, and a bar to simultaneously operate said latches.

1,688,141. UNCOUPLING DEVICE FOR RAILWAY-CAR COUPLERS. GARTH G. GILPIN, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 12, 1926. Serial No. 147,986. 6 Claims. (Cl. 213—164.)



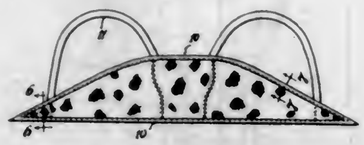
1. In an uncoupling device for a car coupler, a fulcrum, a pin lifting lever, an operating lever, a connector operatively connecting said levers, and a suspension link pivotally connected to said fulcrum and pivotally connected to said connector.

1,688,142. FORMING AND TEMPERING APPARATUS. JOSEPH GOGAN, Cleveland, Ohio. Filed Oct. 18, 1926. Serial No. 142,233. 4 Claims. (Cl. 266—6.)



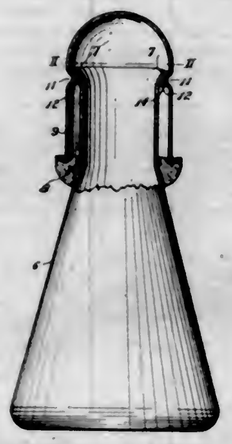
1. In a machine of the class described, the combination of guiding means, a form-supporting member movable on said guiding means, fluid pressure means for moving said member in one direction, a second form-supporting member reciprocable toward and away from the first-mentioned member and cooperating therewith to clamp the work, and fluid pressure means for actuating said second member having sufficient power to move both of said members in one direction and in opposition to the force exerted on the first member by its said fluid pressure means.

1,688,143. VIRGIN-BUST FORMER AND SUPPORTER. ANNA HAGELMAN, Houston, Tex. Filed Nov. 20, 1925. Serial No. 70,249. 1 Claim. (Cl. 2—42.)



A bust former comprising a flat strip of material having its lower edge straight from end to end and cut on the bias, said strip having middle and end portions having their adjacent edges joined together by a plurality of spaced stitched seams, each of said end portions extending continuously from said middle portion to the end of said former, the lower parts of the adjacent edges of said portions extending at right angles to said straight lower edge and the remainders of said adjacent edges oppositely and substantially equally convexly curved to form recesses, the edges of the completed garment having bias bindings, to provide a comfortable, snugly fitting bust former possessing elasticity to permit freedom and comfort in movement, and should straps attached to the upper ends of said seams and to said end portions.

1,688,144. STERILIZER. MARIAN W. HEILMAN, Tarentum, Pa. Filed Apr. 26, 1924. Serial No. 709,223. 8 Claims. (Cl. 215—37.)

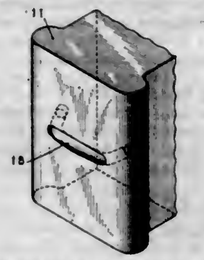


1. In a sterilizer, the combination with a flask having a body portion and a neck portion having an external projection thereon, of a porous washer surrounding the neck portion and supported by the body portion, and a test tube constituting a closure fitting over and substantially surrounding the neck portion and engaging the washer, and having integral means interlocking with the projection on the neck portion for releasably retaining it in operative position.

1,688,145. REMOVABLE DENTAL BRIDGEWORK. AUGUST P. JURGENSEN, New York, N. Y., assignor to Chayes Dental Instrument Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 8, 1926. Serial No. 86,803. 3 Claims. (Cl. 32—12.)

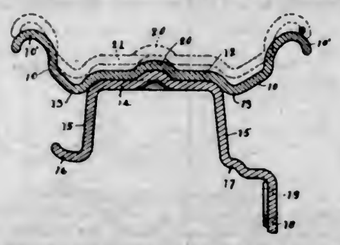
1. A denture comprising pier teeth provided with sockets, a bridge having attaching portions fitting the sockets.

sockets in each attaching portion of the bridge converging towards the outer face of the attaching portion, and a wire



having its ends seated in the sockets of an attaching portion and having its body portion projecting beyond the face thereof.

1,688,146. DEMOUNTABLE-RIM STRUCTURE. FRED R. KLAUS, Warren, Ohio, assignor to The American Welding and Manufacturing Company, Warren, Ohio, a Corporation of Ohio. Original application filed July 3, 1925, Serial No. 41,249. Divided and this application filed Nov. 18, 1926. Serial No. 149,093. 3 Claims. (Cl. 29—159.)



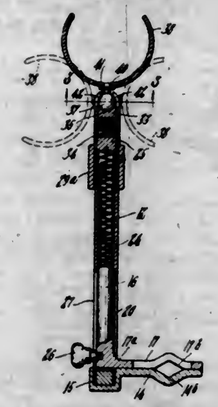
1. The process of forming a metal rim structure that consists in separately forming an annular tire carrying metal rim having a circumferential depression intermediate its side edges on the interior thereof and an annular adapter ring of sufficiently small diameter to be received within said rim, and of a width to fit in said depression, assembling said adapter ring within the rim and changing the diameter of at least one of said parts to cause the outer seating face of the adapter ring to become tightly engaged in the depression of said rim.

1,688,147. AIR HEATER AND THE LIKE. MAURICE LEVRON, Ivry, France. Filed Dec. 23, 1925, Serial No. 77,262, and in France Jan. 19, 1925. 2 Claims. (Cl. 257—245.)



2. In an air heater and like apparatus, walls spaced from each other and providing circulation conduits between them, slidingly removable spacing channel-shaped members respectively inserted longitudinally between the edges of two successive walls, for closing the ends of said conduits, the open side of said spacing members being turned toward the exterior of said circulation conduits, and slidingly removable clamping channel-shaped members with their open side turned toward the open side of said spacing members, said spacing members and said clamping members being both guided in tight contact with each other and with said edges of said walls, the jointing edges of said spacing members and of said clamping members having respectively mating portions so restricted that said jointing edges afford substantially a guiding dovetailed outline preventing the parting of said spacing members away from said clamping members in the transverse direction.

1,688,148. ADJUSTABLE LAMP HOLDER. ABNER R. MARTIN, Chester, Vt. Filed Mar. 11, 1926. Serial No. 93,825. 1 Claim. (Cl. 240—52.)



A lamp-holder comprising a tubular standard having means whereby it may be confined in a predetermined position on a support and provided with a contracted outer end having a mouth coaxial with the standard, and diametrically opposite slots opening into the mouth, a spring-pressed shoe within the standard, said shoe and contracted end forming a ball-shaped frictional socket, and a lamp-supporting clip having free end portions between which a lamp member is insertible, and a trunnion projecting from the midlength portion of the clip and composed of a ball adapted to turn in said socket, and a neck connecting the ball with the clip, the trunnion being movable bodily and rotatable in the said mouth and slots, the arrangement being such that the trunnion may swing in the slots and mouth from side to side of the standard, so that the clip may be located at either of two diametrically opposite sides of the standard, and in various intermediate positions, the trunnion being adapted to turn on its own axis to permit rotative adjustment of the clip, and various angular positions of a lamp member held thereby, when the clip is in either of said positions, the clip and its trunnion being arranged to hold a lamp member in close proximity to said frictional socket, so that the socket is adapted to frictionally maintain the clip and the lamp member in any position to which they are movable.

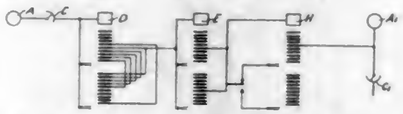
1,688,149. CONFECTIONERY-COATING MACHINE. JOHN MASSARELLA, Cincinnati, Ohio. Filed Oct. 2, 1926. Serial No. 139,191. 6 Claims. (Cl. 91—3.)



1. In combination, an endless web conveyor, means for depositing coating material on said conveyor, a second endless web conveyor delivering articles to the first conveyor, and means whereby the first conveyor applies a substantial part of said coating material to said second conveyor.

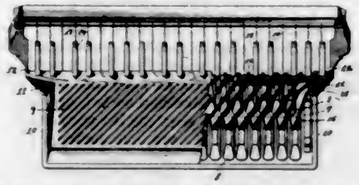
6. The method of coating confections which consists of working a coating of thick consistency onto the confaction by hand, depositing the thus coated confection on a pervious carrier having a coating of thick consistency, to bottom the confection, then passing the thus coated and bottomed confection to a pervious carrier having a supply of coating material of thinner consistency and moving said carrier to pass said confection through a stream of said coating material of thinner consistency, then finally disposing of the confection by hand, to allow hardening of the coatings.

1,688,150. TELEPHONE SYSTEM. RICHARD MERCER, Harrow, and FRANK TENCH, London, England, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Sept. 6, 1924, Serial No. 736,354, and in Great Britain Sept. 18, 1923. 32 Claims. (Cl. 179—18.)



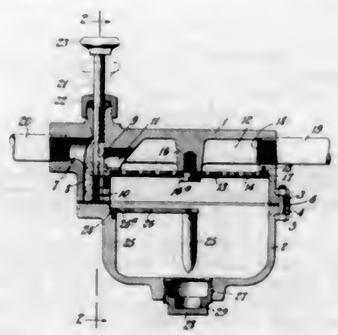
1. In an automatic telephone system a switch train responsive to the digits of a call number to extend a connection, a plurality of wiper sets on the last switch of said train and means controlled by the first of said digits for controlling the application or non-application of a discriminating potential to said last switch for determining the wiper set to be used by said last switch.

1,688,151. ACCORDION. ROBERTO PANCOTTI, Brooklyn, N. Y. Filed June 17, 1927. Serial No. 199,469. 3 Claims. (Cl. 84—376.)



2. In an accordion having a windchest and reed valves, a keyboard having extensions, means connecting the keys of the keyboard to the reed valves, said windchest flared outwardly at the ends to accommodate the extensions of the keyboard and provide room for the connections between the extension keys and their reed valves.

1,688,152. FILTER. BENJAMIN J. PIERSON, Johnstown, N. Y., assignor to D. H. P. Manufacturing Company, Inc., Johnstown, N. Y., a Corporation of New York. Filed Nov. 16, 1927. Serial No. 233,558. 4 Claims. (Cl. 210—167.)



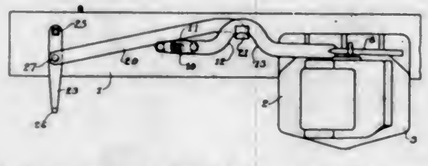
1. A filter comprising a hollow body having an outlet chamber in its upper portion, and a sediment bowl in its lower portion, a horizontal filter member separating the outlet chamber from the sediment bowl, and provided with an inlet port communicating with said body below the filter member, and an outlet port communicating with said outlet chamber, and a horizontally disposed baffle plate located adjacent to the lower edge of the inlet port, and extending therefrom less than all the way to the opposite side of the hollow body and having portions of greater width than the inlet port, whereby the entering liquid will spread laterally upon and over said baffle plate, and deposit sediment thereon, which will be carried off of said plate by the forward movement of the liquid and be deposited in the bottom of the sediment bowl.

1,688,153. DRILL BLADE. HENRY W. PLEISTER, Westfield, N. J., assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J., a Corporation of New Jersey. Filed Nov. 7, 1925. Serial No. 67,501. 4 Claims. (Cl. 255—63.)



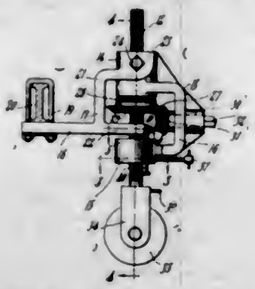
1. A new article of manufacture comprising a flat drill blade for use in the stone working art having an integral projecting strengthening rib and a corresponding groove on the opposite side of the drill part of the rib being between the chuck or drill holder and the end of the drill blade, the strengthening rib adapted to also act as a key.

1,688,154. CAR-COUPLER-OPERATING DEVICE. LUCIUS S. PRATT, Roanoke, Va. Filed Nov. 1, 1926. Serial No. 145,519. 5 Claims. (Cl. 213—164.)



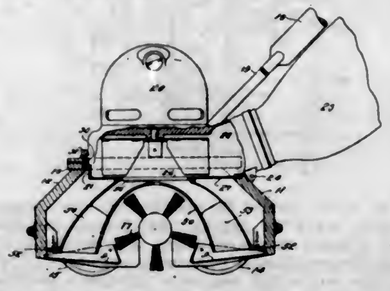
1. In an operating device for a railway car coupler, a pin lifting lever having a fulcrum adjacent one end and an operative connection to a car coupler adjacent the other end, said lever provided with oppositely disposed inclined surfaces, and an operating arm having a slidable engagement upon a car part and having a portion positioned between said inclined surfaces whereby a horizontal movement of said arm in either direction causes said portion to move under said inclined surfaces so as to raise the coupler end of said lever.

1,688,155. VEHICLE LIFTING JACK. CHARLES O. RYBERG, Brockton, Mass. Filed Mar. 5, 1927. Serial No. 172,904. 1 Claim. (Cl. 254—86.)



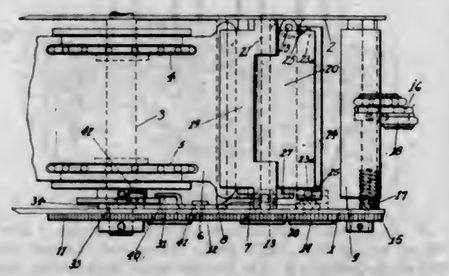
A lifting attachment for vehicle axles, comprising a holder composed of a body portion, an axle engaging clamp and a hinge member, the clamp and hinge member projecting from opposite sides of the body portion, the arrangement of said parts being such that the body portion and hinge member project from one side of an axle with which the clamp is engaged, and the hinge member is located higher than the axle, and a jack including a head composed of spaced apart tubular guides and a neck connecting and offset from said guides, one of the guides being hinged to the hinge member of the holder, a threaded standard movable endwise in the guides, mechanism for longitudinally moving the standard relative to the head, to elongate and contract the jack, said mechanism including a nut engaged with the threaded standard and having a toothed circular periphery, constituting a bevel gear, and an operating shaft journaled in the neck and provided with a bevel gear meshing with the nut gear and cooperating with one of said guides in confining the nut against sidewise movement, the standard and one of the guides being provided with means for preventing rotation of the standard with the nut, the arrangement being such that the standard may be moved to a vertical supporting position beside the axle, and to a substantially horizontal stored position higher than and extending crosswise of the axle, and locking means for confining the jack head when the standard is vertical, said means including a locking member fixed to and projecting from the holder, and a complemental spring-pressed locking member carried by the jack head and engageable with the fixed member by a movement of the jack to a vertical position, so that the jack head is automatically locked.

1,688,156. COMBINED CARPET SWEEPER AND VACUUM CLEANER. WILLIAM E. SHERBONDY, Cleveland, Ohio. Filed Mar. 15, 1924. Serial No. 699,395. 6 Claims. (Cl. 15—8.)



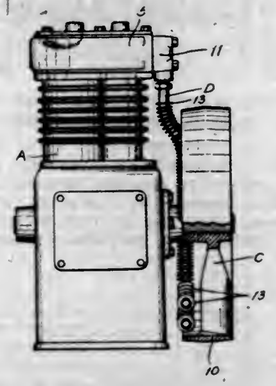
5. In combination, a carpet sweeper casing having an opening therein and in communication with the exterior of the casing, a housing movably connected to the casing above the opening, an electrically operable motor and fan unit disposed within the housing, a dust collector connected to the housing outside the casing, a brush carried by the casing, a dust pan enclosed within the casing on each side of the brush, and a member operatively connected to the housing and extending downwardly on each side of the brush and providing a passagewny which terminates above each dust pan.

1,688,157. MANIFOLDING MACHINE. JOHN Q. SHERMAN, Dayton, Ohio. Filed Nov. 1, 1926. Serial No. 145,385. 8 Claims. (Cl. 242—55.5.)



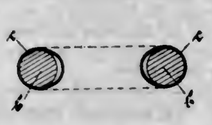
1. In a manifolding machine the combination with means for feeding a web of paper for manifolding purposes, and means for disrupting said web after being so fed, comprising a pair of clamping devices arranged to grip the paper transversely thereof, and means for moving one of the clamping devices in a path which is substantially arcuate at one end of the clamping device, whereby a tearing off action at one edge first will be applied to the paper with respect to the first of the clamps.

1,688,158. COOLING APPARATUS. EDWIN H. STEEDMAN, St. Louis, Mo., assignor to Curtis Manufacturing Company, Wellston, Mo., a Corporation of Missouri. Filed May 21, 1927. Serial No. 193,238. 9 Claims. (Cl. 257—244.)



1. A cooling apparatus, comprising a fan formed by blades on a fly wheel, and tubes, conduits or hollow members through which a medium to be cooled circulates, housed in said fly wheel.

1,688,159. DRAWING RING FOR WIRE-DRAWING MACHINES. PETER DARMSTADT, WILHELM STEGMANN, and VALENTIN WEIL, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to the Firm Drahtindustrie Peter Darmstadt & Co., G. m. b. H., Frankfort-on-the-Main, Germany. Filed Jan. 11, 1928, Serial No. 245,835, and in Germany Sept. 22, 1927. 1 Claim. (Cl. 205—20.)

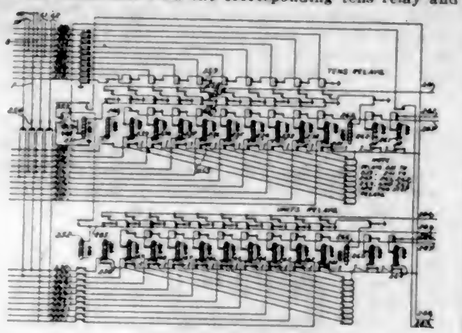


In combination with a drawing roller of a wire-drawing machine, an elastic continuous ring fitted freely on such roller, said ring being adapted to contact with the wire along only a portion of its periphery, the ring thus being deformable by the tension of the wire during the drawing operation to vary the area of the bearing surface between the ring and the roller in accordance with variations in the tension of the wire.

1,688,160. TELEPHONE SYSTEM. RUDOLPH F. STEHLIK, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 22, 1924, Serial No. 733,471. Renewed May 7, 1928. 29 Claims. (Cl. 179—18.)

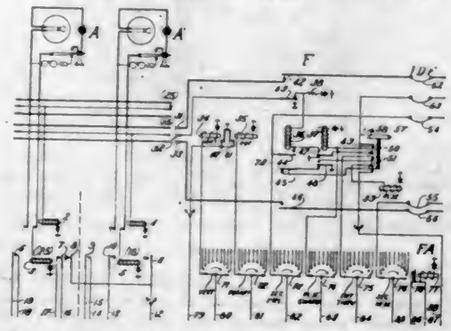
1. In a telephone system, a plurality of lines, tens relays and units relays for registering the numbers of such lines, a connection between one conductor of each line and the corresponding tens relay, a transfer relay, and

means for energizing said transfer relay to disconnect each of said conductors from the corresponding tens relay and



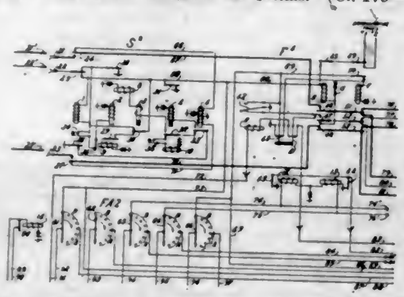
to connect such conductor to the units relay corresponding to the units designation of the corresponding line.

1,688,161. TELEPHONE SYSTEM. RUDOLPH F. STEHLIK, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed May 11, 1925, Serial No. 29,373. Renewed May 18, 1928. 24 Claims. (Cl. 179—18.)



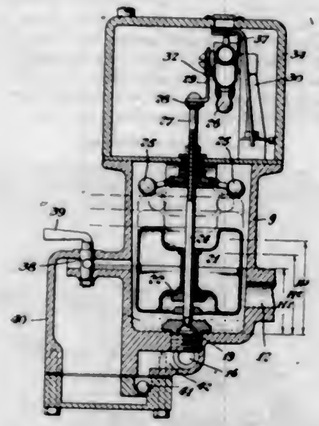
1. In a telephone system a two-motion finder switch, a calling line terminating in the bank thereof, primary and secondary magnets for driving said finder in its respective movements, means for sending a single train of impulses to said finder, and means independent of control by said impulses for diverting the first part of said series to said primary magnet and for diverting the remaining part to said secondary magnet, whereby said finder is set upon the bank contacts of the calling line.

1,688,162. TELEPHONE SYSTEM. RUDOLPH F. STEHLIK, Chicago, Ill., assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed May 7, 1926. Serial No. 107,336. 40 Claims. (Cl. 179—18.)



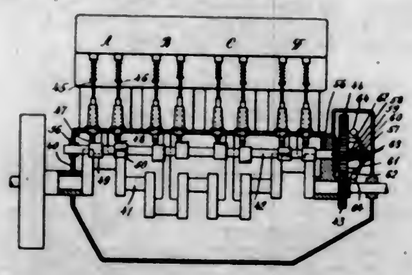
1. In a telephone system, subscribers' lines divided into groups, a finder equipment normally individual to each of said line groups, means for rendering one of said equipments alternatively accessible to lines of other of said groups, means responsive to a call from one of said lines for operating the equipment normally accessible thereto to connect therewith, and means for releasing said equipment and operating said other equipment if said first operated equipment fails to connect with said calling line.

1,688,163. OIL-BURNER SAFETY DEVICE. HARRY F. TAPP, Brooklyn, and HOWARD W. DIX, New York, N. Y., assignors to Socony Burner Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 30, 1926. Serial No. 84,843. 19 Claims. (Cl. 158—42.3.)



1. In an oil burner the combination of a combustion chamber, means for feeding fuel thereto, fuel ignition means, a safety means consisting of a closed oil conduit system connecting said combustion chamber and a fuel supply for said burner, and means mounted in said conduit system and adapted to cooperate with the fuel feeding means to stop the flow of fuel to said combustion chamber when a predetermined quantity of fuel has passed into said conduit system, said fuel stopping means also acting to permit a small amount of fuel normally collected during the initiation of combustion to return to the fuel supply for the burner without operating the safety means to stop the flow of fuel to the burner.

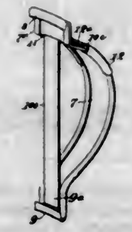
1,688,164. INTERNAL-COMBUSTION ENGINE. FRED K. TARRANT, Yuma, Colo. Filed Mar. 4, 1927. Serial No. 172,611. 8 Claims. (Cl. 123—90.)



8. An internal combustion engine, comprising a plurality of cylinders, a crank shaft, intake and exhaust valves for each cylinder, a cam for operating each intake valve, and a cam for operating each exhaust valve, valve tappets engaging said cams, and means for shifting said tappets relative to and axially of said cams, thereby to vary

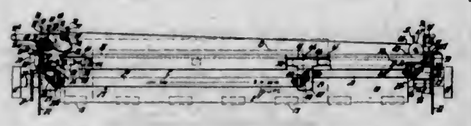
the timing of said valves, said means comprising a shaft to which the tappets are pinned, said tappets being slidably mounted on the valve stems, and a connection for shifting said shaft, said cams being so constructed and arranged as to increase the period of opening of the intake and exhaust valves as the engine speed increases.

1,688,165. HANDLE FOR CANS. WILLIAM TEHEL, Cedar Rapids, Iowa. Filed Dec. 1, 1927. Serial No. 237,109. 2 Claims. (Cl. 16—114.)



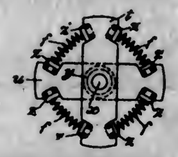
1. A can handle having a curved body terminating in hooks to engage the end-flanges of the can, and slotted adjacent to one hook, and a tongue extending through said slot from the opposite end of the handle, by the folding of which tongue the handle is secured on the can.

1,688,166. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 13, 1924. Serial No. 737,447. 27 Claims. (Cl. 197—153.)



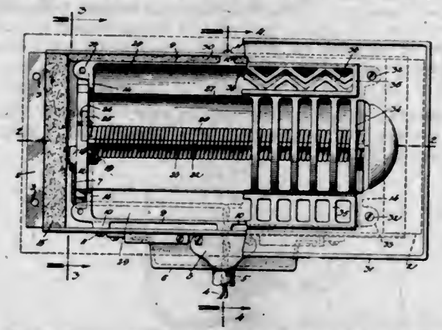
24. In a typewriting machine, the combination of a carriage, a platen on said carriage, type-bars to print at a common point against said platen, a ribbon extending lengthwise of the platen, a ribbon-guide, platen-line-spacing mechanism, and means under the control of the line-spacing mechanism to shift the ribbon-guide whereby to move the ribbon from the printing point to an ineffective position at one side thereof.

1,688,167. POWER TRANSMISSION. JACOB WERZ, Geneva, Switzerland, assignor to Société Anonyme des Ateliers de Sécheron, Geneva, Switzerland, a Confederation of Switzerland. Filed Feb. 6, 1925, Serial No. 7,203, and in Switzerland Feb. 8, 1924. 4 Claims. (Cl. 64—96.)



2. In a transmission apparatus, a driving member, a driven member, a plurality of holders rigidly connected to the said driving and driven members, and a plurality of springs extending between and at their ends rigidly fixed in the said holders, the said springs being curved and under sufficient tension when the transmission device is at rest to offset the effect of centrifugal force when the transmission device is in motion.

1,688,168. WALL-TYPE ELECTRIC HEATER. ARTHUR WHITTAKER, Windsor, Ontario, Canada. Filed Oct. 9, 1925. Serial No. 61,429. 6 Claims. (Cl. 219—34.)



6. An electric wall heater including a wall box adapted to be secured within an opening in a wall of a building with an open side of said box substantially flush with the face of said wall, an outlet box detachably secured to the lower side of said wall box and having an opening in its forward side, a movable plate for closing said opening, an electrical heating device supported in said wall box, electrical conductors extending from said device into said outlet box, and main electrical conductors extending into said outlet box and connected therein to the conductors leading to the heating device, whereby the heater may be set as a unit in the wall of a building and the electrical connection with the wiring of the building then made through the opening in the forward side of the outlet box.

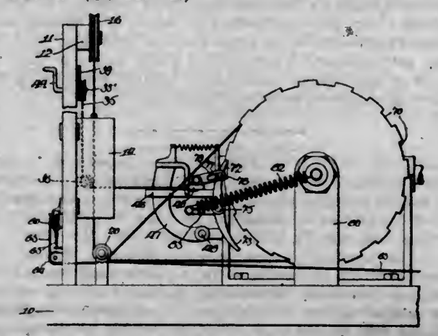
1,688,169. ISOBUTYL ESTER OF THE DI-IODIDE OF BEHENOLIC ACID AND PROCESS OF PREPARING SAME. AUGUST WINGLER, Elberfeld, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Filed May 11, 1926, Serial No. 108,413, and in Germany May 12, 1925. 2 Claims. (Cl. 260—106.)

2. The new isobutyl ester of the di-iodide behenolic acid having most probably the formula:—

$$CH_3(CH_2)7-\underset{I}{C}=\underset{I}{C}-(CH_2)11-COO-CH_2CH\begin{matrix}CH_3\\CH_3\end{matrix}$$

which is a limpid oil solidifying at 14° C. containing 39.2 per cent of iodin and being a useful iodin preparation in medicine.

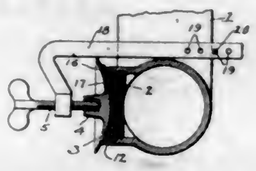
1,688,170. HOISTING APPARATUS. CARL ZETTERLUND, Chicago, Ill. Filed Aug. 20, 1925. Serial No. 51,500. 23 Claims. (Cl. 187—2.)



18. In a hoist of the class described, the combination with a plurality of elevator platforms adapted to be alternately raised and lowered, of reversing mechanism

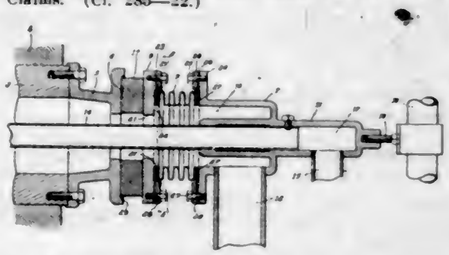
for raising and lowering said elevator platforms comprising a drive shaft, a drum adapted to be driven by said drive shaft, a ring gear secured to said drum, gears loosely mounted on said drive shaft and meshing with said ring gear, and means controlled by the movement of said elevator platforms for alternately engaging said gears with said drive shaft.

1,688,171. TRAP COVER AND CLAMP. HARRY G. ZIMMERMAN, Philadelphia, Pa. Filed June 8, 1927. Serial No. 197,440. 1 Claim. (Cl. 137—76.)



1. A trap comprising a U-shaped section having an opening therein, a convex closing plate adapted to lie over said opening to effectively close the latter, said plate having at least one concentric line of relative weakness on which the plate may be fractured to decrease the diameter, and a clamp for securing the plate in closing position including a trap-embracing member, a bar anchored by said embracing member, and having end parts adapted to be broken away to decrease the length thereof, and a screw threaded in the bar and adapted to bear against the said plate.

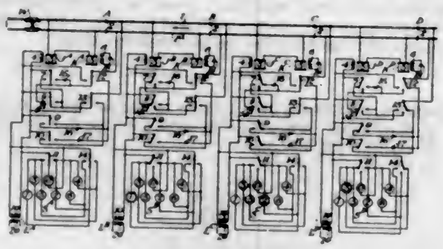
1,688,172. STEAM FITTING FOR JOURNALS OF ROTARY STEAM CYLINDERS OR THE LIKE. ALONZO ALDRICH and EARL E. BERRY, Beloit, Wis., assignors to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed Nov. 24, 1924. Serial No. 751,942. 16 Claims. (Cl. 285—22.)



1. In combination, a hollow rotary journal, a steam supply conduit connected to said journal through the agency of a bearing part for maintaining a steam tight joint, means including a bellows-like element resisting the action of the steam pressure tending to unseat said bearing part, means responsive to the steam pressure for urging the bearing part against its seat, and a single means to back up both of said means arranged to be adjusted to vary the normal tension on said bellows element.

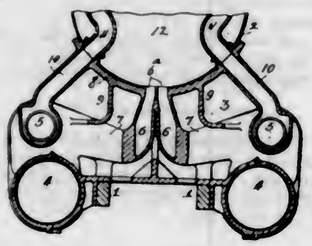
1,688,173. RAILWAY SIGNALING. GEORGE W. BAUGHMAN, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 26, 1926. Serial No. 144,267. Renewed Mar. 19, 1928. 4 Claims. (Cl. 246—34.)

1. In combination, two electro-responsive devices, the first of which is responsive to uni-directional current but not to full wave alternating current, and the second of which has two windings and is selectively responsive to the relative phases of currents therein, means for constantly supplying one winding of said second device with alternating current of fixed phase, and means for supplying the said first device and also the second winding of said second device with full wave alternating current of normal or reverse relative polarity or with only the



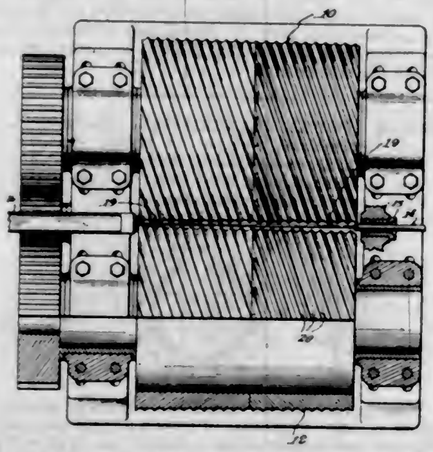
positive or only the negative half waves of alternating current of normal or reverse relative polarity.

1,688,174. LOCOMOTIVE CYLINDER STRUCTURE. HARRY A. F. CAMPBELL, Philadelphia, Pa. Filed Nov. 18, 1927. Serial No. 234,174. 2 Claims. (Cl. 105—44.)



1. A locomotive cylinder structure, having valve-chests; a saddle on which a boiler is located; internal exhaust passages; and outside steam pipes extending from the saddle to the valve-chests and made integral therewith.

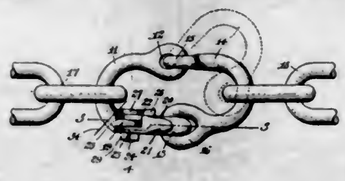
1,688,175. FORGING BALLS FROM LONG BARS. ABELL CANDA, Cranford, N. J. Filed Aug. 17, 1925. Serial No. 50,879. 2 Claims. (Cl. 80—23.)



1. A method of forging balls, which consists in axially rolling a heated metal bar and grooving it progressively from one end into a connected series of elements which each have a configuration of two frusto-conical surfaces joined at their bases by a cylindrical surface, subjecting

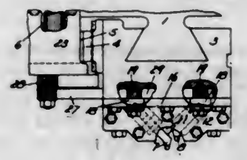
the metal to a kneading action by a plurality of centripetal pressures and resisting said pressures by an oppositely directed resultant centripetal pressure, severing the metal at the grooves into separate elements, subjecting the elements to a spiral rolling motion and simultaneously compacting and shaping them into true spherical bodies.

1,688,176. CONNECTER. JOHN CLARK, Buffalo, N. Y. Filed July 11, 1927. Serial No. 204,789. 7 Claims. (Cl. 24—241.)



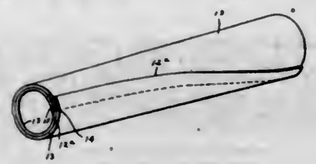
1. A connecter having a hook, a keeper to close said hook, a pivot bolt extending through said keeper and through said hook in rear of the terminal thereof and having a notch formed therein in line with said keeper, said keeper having a reflex stud and the terminal of said hook having an opening to receive said stud, and means to rotate said pivot bolt through a portion of a revolution to bring the notch thereof so as to face toward the terminal of said hook or in an opposite direction.

1,688,177. BROACH MECHANISM. HIRAM D. CROFT, Springfield, Mass., assignors to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Filed Mar. 31, 1927. Serial No. 179,960. 11 Claims. (Cl. 90—33.)



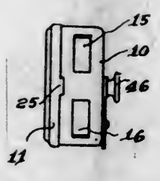
1. In mechanism of the class described, a holder, broaches in said holder, and means alternately to retract and advance said broaches, in straight courses between parallel planes at the top and bottom of said broaches, out of and into the cutting field.

1,688,178. TUBING. CARL B. DREVITSON, Somerville, Mass. Filed Apr. 28, 1926. Serial No. 105,144. 5 Claims. (Cl. 29—182.)



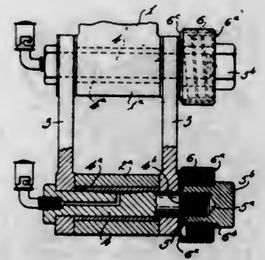
1. A resilient tube comprising a scrolled oblong blank of thin resilient sheet metal, the length of which is substantially equal to the length of the tube, and metallic bonding material interposed between limited portions of the convolutions of the scroll to maintain the latter in tubular form, and leave other portions of the convolutions free from positive connection with each other, one longitudinal edge portion of the blank overlapping a portion of a convolution of the scroll and being united to the latter by the bonding material to form a longitudinal lap joint extending from end to end of the tube.

1,688,179. HAND SIGNAL LIGHT. HERMAN G. ESSMAN, New York, N. Y. Filed Oct. 24, 1925. Serial No. 64,620. 2 Claims. (Cl. 177—329.)



1. A hand signal lamp comprising a casing having a substantially oblong chamber, a substantially circular chamber and a constricted portion between said chambers, a light supporting element disposed in said constricted portion formed of sheet metal and comprising two spaced integrally connected plates having registering apertures, and wings having frictional engagement with the walls of the casing.

1,688,180. VEHICLE-SPRING SHACKLE. THOMAS F. FERRY, Cleveland, Ohio. Filed Oct. 17, 1923. Serial No. 668,976. 3 Claims. (Cl. 267—54.)



1. The combination with a spring shackle mechanism, comprising a frame and spring members terminating in eyes, shackle links, bolts connecting the links, said bolts having a threaded end portion extending through the links a sufficient distance to receive a nut, of a shackle unit for such mechanism, including a nut having a threaded bore to engage the threaded portion of said bolt, and a shouldered head portion, a spring disposed between the shouldered head and the shackle link and telescoping cups enclosing said spring, one of said cups being adapted to be engaged by said shouldered head portion of the nut, whereby the spring will be compressed upon tightening of the nut.

1,688,181. SCREW DRIVER. CHARLES F. FINK, Baltimore, Md., assignor, by mesne assignments, to Commonwealth Bank of Baltimore, Baltimore, Md., a Body Corporate. Filed Feb. 11, 1926. Serial No. 87,622. 3 Claims. (Cl. 145—52.)

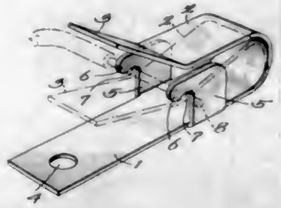
2. In combination in a screw driver, a shank member having a bore and a single laterally facing opening, a handle connected to one end of said shank member, a tubular casing connected to the other end of said shank, a pair of spring blades secured to said casing and having surfaces to grip the walls of the kerf of the screw, a spreader member in said casing comprising a rod having

one end turned laterally and projecting through said single opening and the other end being pointed and adapted



to spread the blades, and a screw nut threaded on the shank to engage the turned end to advance the spreader.

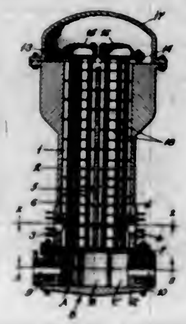
1,688,182. TERMINAL CONNECTER. GUY W. FITZGERALD, Union, Iowa, assignor of one-half to Harmon C. Shear, Waterloo, Iowa. Filed Apr. 14, 1926. Serial No. 101,998. 1 Claim. (Cl. 173—259.)



A connecter formed of a strip of spring metal formed into a loop, one loop side of the connecter having two tongues formed of lateral extensions of this loop side which are bent to project from opposite edge portions of this loop side toward the other loop side and spaced apart to permit this other loop side to be moved therebetween toward and from the first loop side, each of said tongues having a hook continuation at its upper portion extending along the connecter and below which said other loop side may be depressed into a position to permit a wire crossing and moved along said other loop side to be held between this other loop side and the lower edges of said hook continuations, edge portions of the tongues being presented for engagement with the conductor applied thereto and the tongues being rigid in their relation to such conductor by virtue of their formation.

1,688,183. HEAT INTERCHANGER. OLIVE E. FRANK, Buffalo, N. Y., assignor to O. E. Frank Heater & Engineering Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed Dec. 6, 1927. Serial No. 238,102. 2 Claims. (Cl. 257—226.)

1. A heat interchanger comprising a shell composed of at least two sections removably secured together and delimiting a heat exchange chamber, two tube nests in said chamber providing a path for the flow of one of the fluids, the shell being formed with grooves along its longitudinal margins, and a baffle plate interposed between the tube nests prescribed a path of flow for the other fluid and having its longitudinal marginal edges arranged in said grooves whereby the path of flow of said other fluid is sealed along said marginal edges of the baffle and the



baffle centered and held in position and wherein, upon the removal of at least one section of the shell, the baffle may be freely removed.

1,688,184. HANDLING CANE JUICE. ERNEST EDWARD HARTMANN, New York, N. Y., assignor to Petree & Dorr Engineers, Inc., New York, N. Y., a Corporation of Cuba. Filed June 15, 1926. Serial No. 116,079. 7 Claims. (Cl. 127—43.)

1. In the extraction of sugar cane juice by successively crushing and macerating sugar cane, defecating the extracted products and returning the defecation mud to the milling circuit, the improvement which consists in stirring the bagasse to increase the surface area of bagasse particles brought into contact with the insoluble portion of the mud.

1,688,185. VALVE. GEORGE EDGAR HAZARD, Rochester, N. Y., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Filed May 21, 1927. Serial No. 193,162. 4 Claims. (Cl. 251—119.)

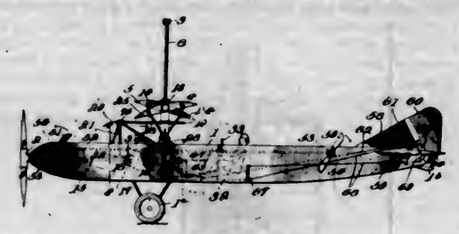


1. In combination with a plate valve adapted for reciprocation, a cage therefor having guide grooves in its ends adapted to receive the ends of said valves, and liners shaped to fit said grooves and pressed into the same to protect the grooves from wear.

1,688,186. AIR VEHICLE. IRA B. HUMPHREYS, Denver, Colo. Filed Feb. 6, 1924. Serial No. 690,960. 2 Claims. (Cl. 244—15.)

1. An aircraft comprising a body portion having an upwardly projecting mast, a collar surrounding the said mast, wings adjustable at opposite angles projecting laterally from opposite sides of the collar, the mast projecting above the said collar, and braces extending from the upper

portion of the mast with their outer ends journaled intermediately to the said wings to permit them being



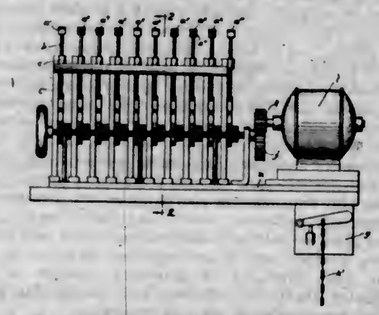
turned, and an engine adapted to be connected with the said wings, for the purpose described.

1,688,187. PADLOCK. ARTHUR C. JACKSON and WALDEMAR KROLL, Philadelphia, Pa., assignors, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed May 3, 1923. Serial No. 636,399. 4 Claims. (Cl. 70—105.)



1. The combination in a padlock, of a casing having a body portion, a cap plate and back plate; and a shackle adapted to the casing, said casing having a rib projecting into the space between the arms of the shackle, the cap plate and back plate having portions extending on each side of the shackle at one side of the casing and conforming to the shape of the shackle.

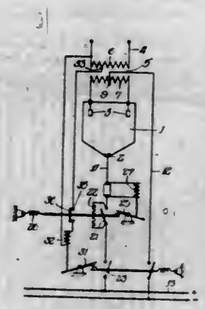
1,688,188. FINGER-EXERCISING MACHINE. JOSÉ VICTOR JUGO, Buenos Aires, Argentina. Filed Mar. 4, 1926. Serial No. 92,188. 6 Claims. (Cl. 272—67.)



2. In an exercise machine, in combination, a plurality of supports, arms upon which the supports are carried, a rotatable shaft transverse to the arms, eccentric devices carrier with the shaft and selectively actuating the arms and clutching mechanism between the eccentric devices and the shaft.

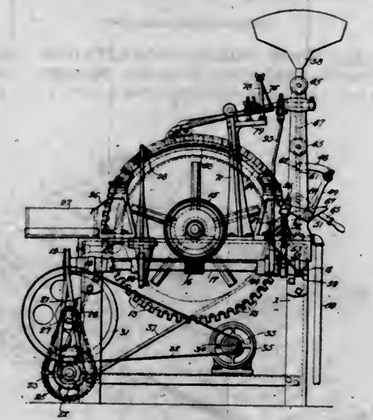
1,688,189. RECTIFIER SYSTEM. ERWIN KERN, Wettingen, Switzerland. Filed Aug. 10, 1927, Serial No. 211,988, and in Germany July 26, 1926. 3 Claims. (Cl. 175—363.)

1. In a rectifier system, a rectifier, direct current leads from said rectifier, a first circuit breaker in said leads, a second circuit breaker in said leads, a tripping mechanism, a tripping coil for said first circuit breaker, a tripping coil for said second circuit breaker, and a resistor bridging



said first circuit breaker, the tripping of said second circuit breaker being actuated by the current through said bridging resistor.

1,688,190. MACHINE FOR FORMING GLASS VIALS. ROBERT H. KOENIG, Haddon Heights, N. J., assignor to Ruth Glass Company, Conshohocken, Pa., a Corporation of Pennsylvania. Filed June 4, 1926. Serial No. 113,768. 19 Claims. (Cl. 49—7.)

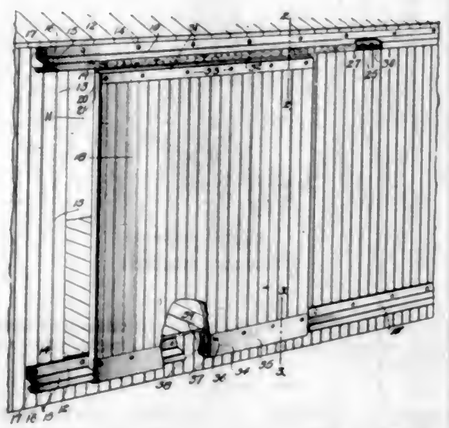


1. In a machine of the character described, the combination with a continuously advancing conveyer for tubular glass blanks comprising a series of parallel disks having substantially aligned peripheral recesses adapted to receive said blanks, a burner located adjacent the path of the blanks when advanced by said disks and adapted to heat the blanks intermediate their ends, and means for drawing the blanks apart at the heated section including movable elements adapted to engage the tops of the blanks as they are advanced by said conveyer.

1,688,191. CAR-DOOR HANGER. JOHN D. KUHN, Lawrence, Kans. Filed May 20, 1926. Serial No. 110,399. 1 Claim. (Cl. 16—94.)

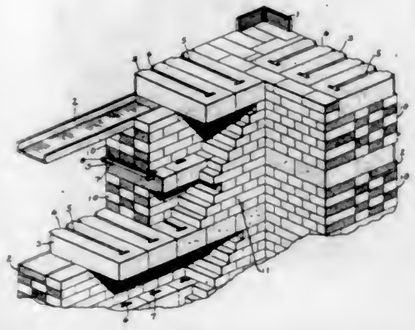
In combination with a door frame and door, a bracket including a wall portion attached to the lower portion of the the door frame, extended downwardly and outwardly and terminating in an inwardly directed runway portion, a bracket including a portion attached to the lower portion of the door, having its lower edge inturned beneath the

first named bracket and upturned adjacent the door frame and terminating in a runway portion extended outwardly



over the corresponding portion of the frame bracket, and a bearing member interposed between the runway portions of the respective brackets.

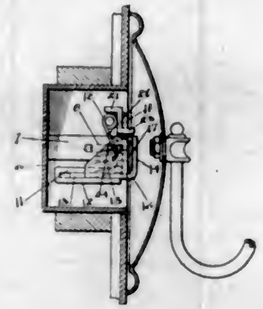
1,688,192. FIRE-WALL CONSTRUCTION. MICHAEL LIPTAK, St. Paul, Minn. Filed Nov. 26, 1926. Serial No. 150,941. 8 Claims. (Cl. 72—102.)



1. A wall having a permanent portion comprising a plurality of superposed channel irons, extending lengthwise of the wall, rows of fire brick laid upon the irons as headers and projecting at the inner side of the wall to form shelves, each header element having an I-shaped depression extending lengthwise and each header having an I-shaped bar loosely engaged in a corresponding I-shaped depression, and bricks filling the space between the headers and overlying the depressions.

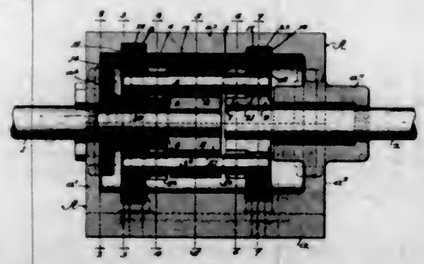
1,688,193. FIXTURE BRACKET. GEORGE N. LITTLETON, Portland, Oreg. Filed Dec. 14, 1926. Serial No. 154,820. 1 Claim. (Cl. 240—85.)

In a fixture bracket, a stationary member having a vertical portion, a slide supported upon said vertical portion, a slidable member having a horizontal portion adapted to move in said slide, and a vertical portion upon the outer end thereof; wings upon said slidable member spaced apart from said vertical portion thereof to receive a fixture crossbar therebetween, and a spring mounted upon said



stationary member and coacting with said slidable member to hold the latter either in extreme outer position or extreme inner position.

1,688,194. DIFFERENTIAL-POWER TRANSMISSION DEVICE. JAMES W. LYONS, Oak Park, Ill. Filed June 25, 1928. Serial No. 287,021. 13 Claims. (Cl. 74—34.)

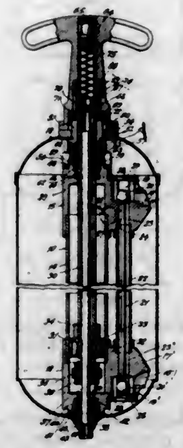


1. In a differential power transmission device, the combination of rotatable members mounted in axial alignment with each other, comprising a first member adapted to be power driven and a second member, transmission shafts mounted in spaced relation to said rotatable members so as to permit planetary movement thereof about said rotatable members and also rotation on their own axes, means rendered operative by rotation of said first rotatable member for imparting planetary rotation to said transmission shafts about said rotatable members and also on their own axes, constructed and arranged to permit movement of said transmission shafts outwardly relatively to said rotatable members under centrifugal force, intermeshing gears on said transmission shafts and said second rotatable member, and means rendered operative by centrifugal force produced by planetary rotation of said transmission shafts for effecting and maintaining pitch-line engagement of said gears in operation.

1,688,195. FIRE EXTINGUISHER. PETER G. MACGREGOR, Pequannock, N. J., assignor to Pyrene Manufacturing Company, Newark, N. J., a Corporation of Delaware. Filed Oct. 6, 1925. Serial No. 60,708. 8 Claims. (Cl. 299—98.)

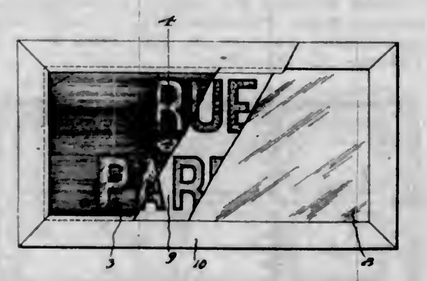
1. In a fire extinguisher, a liquid receptacle, a head having an opening through which communication with the receptacle is afforded when the extinguisher is operated, a piston-operating member projecting through said head, an operating handle slidably connected to said piston-operating member, means for locking said handle to said head, sealing means rigidly fixed to said piston-operating

member and adapted, when said handle is locked to said head, to close said opening and thereby sever the communication which is afforded through said head when the extinguisher is operated, and resilient means adapted to cooperate with said handle and said piston-operating member when said handle is locked to said head to exert a longitudinal thrust upon said piston-operating member and thereby urge said sealing means into intimate engagement with said head.



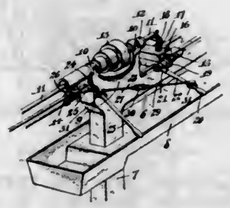
6. In a fire extinguisher, a liquid receptacle having a head, a pump arranged within said receptacle and comprising a pump tube and a reciprocating piston-operating member projecting through said head, a stripper through which said piston-operating member is adapted to reciprocate, said stripper being confined between and maintained in engagement with said head and said pump whereby said pump is held against longitudinal movement upon outward movement of said piston-operating member, said stripper being provided with a deflecting wall inclined with respect to said piston-operating member and terminating adjacent said pump in a spaced relation thereto to remove said liquid from said piston-operating member and deflect the removed liquid back into the liquid supply upon outward movement of said piston-operating member.

1,688,196. PLASTIC DISPLAY. MARCEL MASSON, Vincennes, France. Filed June 21, 1926, Serial No. 117,628, and in France May 29, 1926. 6 Claims. (Cl. 41—24.)



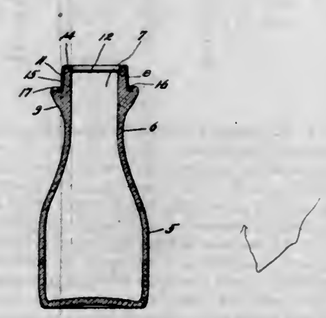
1. The method of producing displays of plastic material which comprises embossing the plastic material with heated shaping means and simultaneously cutting to the desired configuration, and then coloring the plastic material.

1,688,197. MECHANISM FOR OPERATING SCREW MACHINES AND THE LIKE. GODFRIED J. MAYER, Buffalo, N. Y. Filed June 26, 1925. Serial No. 39,735. 8 Claims. (Cl. 82—2.)



1. In a screw-machine or the like having two operating parts, two operating levers separately operable for manipulating said operating parts, and a rigid connection between said operating levers having universal and adjustable connection with and along said levers.

1,688,198. BOTTLE AND CLOSURE. ELWIN E. MCGILL, Kansas City, Mo. Filed May 10, 1926. Serial No. 108,045. 1 Claim. (Cl. 215—80.)

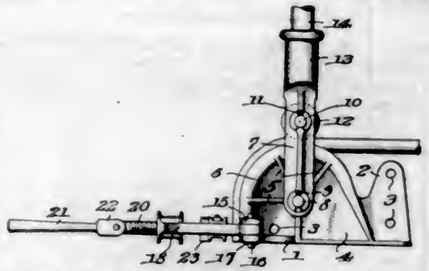


A bottle having its mouth formed with an annular cap seat or depression, the neck of the bottle having an external enlargement spaced some distance below said mouth and formed with an annular groove, said neck being tapered between said enlargement and the mouth of the bottle, and a cap closure member having its central portion depressed or counter-sunk to fit against said cap seat or depression and its outer portion embracing the neck of the bottle between its mouth and said enlargement, the margin of said member being formed with a lip seated in said groove.

1,688,199. PIPE VISE AND BENDER. ALBERT H. MEIER, Evansville, Ind. Filed Jan. 24, 1927. Serial No. 163,244. 2 Claims. (Cl. 153—46.)

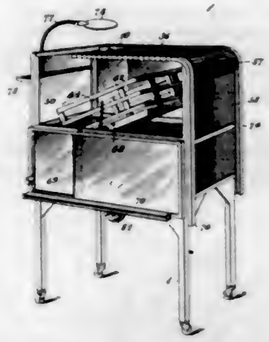
1. In a pipe, rod, conduit, or tube bender, a body having a form over which the pipe, rod, conduit, or tube may be

bent, said body also having a base and a bracket angularly disposed in relation to the base, either the base or the



bracket adapting the body to be secured to a bench or other object.

1,688,200. INCLOSED BED FOR PREMATURE AND FEEBLE INFANTS. HERBERT J. W. MORGENTHALER, Brooklyn, N. Y.; Anna Robbins Morgenthaler executrix of said Herbert J. W. Morgenthaler, deceased. Filed July 17, 1924. Serial No. 726,618. 8 Claims. (Cl. 128—1.)

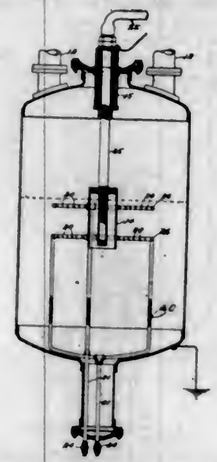


1. An enclosed bed construction for premature and feeble infants, comprising a closure, means for producing a circulation of air through said closure, a bed mounted within the closure, said closure having an adjustable section and means for preventing the complete closure of said section to leave a permanent opening at the head end of said bed.

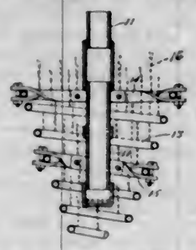
6. An enclosed bed construction for premature and feeble infants, comprising a casing, a bed mounted in the upper portion of said casing in position to leave a main air passage from the lower to the upper portion of the casing at the foot end of the bed, means providing an opening in the casing at the head end of the bed, a humidifier located in the portion of the casing below the bed and comprising a tank, a wick substantially impervious to the passage of air currents extending from said tank in a horizontal direction below the bed and spaced from the same, and a source of heat located below the wick whereby the heated air below the wick rises into contact with the wick, then is deflected laterally by the wick and passes upwardly through the passage at the foot end of the bed, over the bed, and then outwardly through the opening in the casing at the head end of the bed, part of the heated air passing between the wick and the bed on its way to said passage.

1,688,201. ELECTRIC STEAM BOILER AND METHOD OF OPERATING THE SAME. NEWITT J. NEALL, Brookline, and RALPH W. CHADBOURN, Melrose, Mass., assignors to Oxford Paper Company, New York, N. Y., a Corporation of New York. Filed Nov. 5, 1924. Serial No. 747,970. 3 Claims. (Cl. 219—40.)

2. In an electric boiler, an electrode about which is a region of active steam formation, an inlet orifice adjacent said electrode for introducing fresh water near the region of active steam formation without allowing it to mingle with the contents of the remainder of the boiler, and a discharge orifice for withdrawing the produced concentrate on its formation from said region while excluding it from mixing with the incoming fresh water.

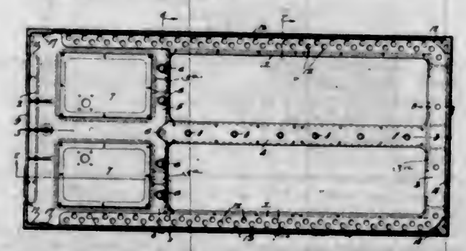


1,688,202. ELECTRODE FOR ELECTRIC BOILERS. NEWITT J. NEALL, Brookline, and RALPH W. CHADBOURN, Melrose, Mass., assignors to Oxford Paper Company, New York, N. Y., a Corporation of New York. Filed Nov. 5, 1924. Serial No. 747,971. 4 Claims. (Cl. 219—40.)



4. The improved electrode for electric steam boilers comprising a hollow central member for the introduction of water and a pipe connecting at one end with the said central member and bent into conical helical form said pipe being provided with orifices for the emission of feed water.

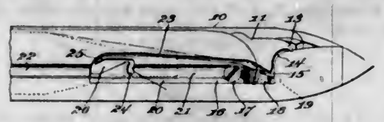
1,688,203. FIRE-BOX FOUNDATION RING. LAWRENCE L. NEERE, Woodbury, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1926. Serial No. 84,661. 5 Claims. (Cl. 122—369.)



1. A fire-box foundation ring made as an integral casting, and having longitudinal hollow side members; hollow

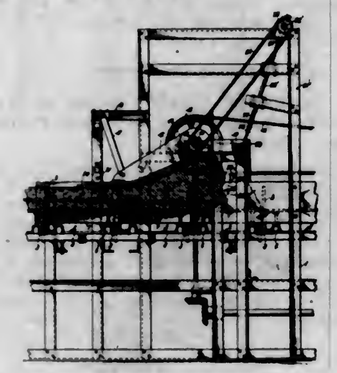
end members; a hollow longitudinal central member communicating with the end members; and a transverse hollow member intersecting the central longitudinal member and communicating with the side members.

1,688,204. SHUTTLE. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 8, 1927. Serial No. 166,699. 3 Claims. (Cl. 139—223.)



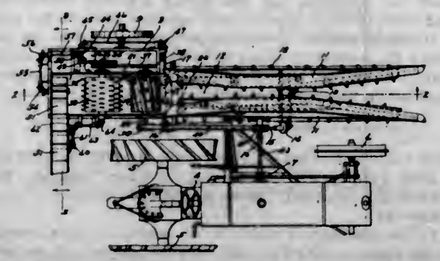
1. A shuttle for weft replenishing looms of the bobbin changing type consisting of a shuttle body provided with a thread block of the usual slotted type and a thread exit located near the center of the shuttle, and a thread passage for leading the thread from the shuttle block to the thread exit.

1,688,205. MOLDING APPARATUS. JAMES M. PHILLIPS and HENRY D. PHILLIPS, Stanford, Ky., assignors to Phillips Machine Company, Stanford, Ky., a Corporation of Kentucky. Filed May 8, 1926. Serial No. 107,712. 13 Claims. (Cl. 25—99.)



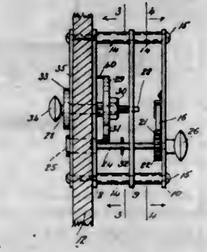
1. In a molding machine, the combination with molding devices, of a main surface tamping device for tamping material thereon, an auxiliary internal tamping device coacting with said material for substantially eliminating voids in the tamped material on said molding devices.

1,688,206. ENSILAGE HARVESTER WITH CORN-SHELLING DEVICE. INGELBERT E. ROSHOLT, Minneapolis, Minn. Filed Jan. 30, 1924. Serial No. 689,576. 8 Claims. (Cl. 56—16.)



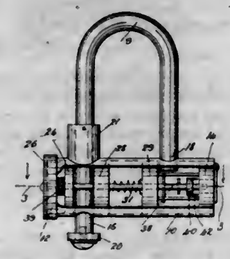
1. In an ensilage harvester, the combination with an ensilage cutter, of means for cutting the stalks from the ground and delivering the same to the ensilage cutter and a corn sheller receiving the cut stalks from said ensilage cutter, means for separating the shelled corn from the ensilage, and means for causing said several instrumentalities to simultaneously perform their respective functions.

1,688,207. DOOR LOCK. AMEDEO DEL ROSSO, Chicago, Ill., assignor of one-half to Emil Del Rosso, Chicago, Ill. Filed May 2, 1927. Serial No. 188,159. 4 Claims. (Cl. 70—53.)



1. In a lock, a frame, a key shaft journaled in the frame and provided with a lateral projection between its ends, a slidable lock bolt for engaging with a keeper, means for sliding the lock bolt when the key shaft is revolved, a locking shaft journaled in the frame and arranged parallel to the key shaft, a locking disk secured to the locking shaft inside the frame with its periphery adjacent to the key shaft and having a notch adapted to be placed opposite the key shaft to permit the insertion of a key to engage with the said projection, and a combination device arranged outside the frame and set by revolving the locking shaft.

1,688,208. PADLOCK. AMEDEO DEL ROSSO, Chicago, Ill., assignor of one-half to Emil Del Rosso, Chicago, Ill. Filed May 19, 1927. Serial No. 192,573. 10 Claims. (Cl. 70—113.)

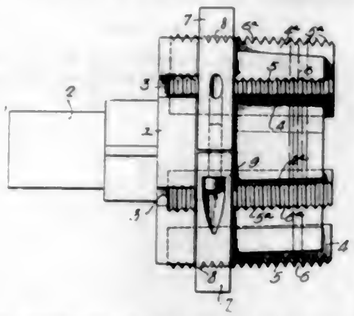


1. In a padlock, a case, a hasp having a spindle which is slidable and rotatable in holes in the sides of the case and having an end portion which interlocks with the case, a locking bolt mounted on the axis of the case and normally engaging with the said spindle, said locking bolt being provided with a projection for operating it, a locking shaft journaled in the case parallel to the locking bolt, a locking disk secured on the locking shaft with its periphery adjacent to the locking bolt and having a notch adapted to be placed opposite the locking bolt to permit the insertion of a key to operate the locking bolt, and a combination device arranged outside the case and operatively connected with the locking shaft.

1,688,209. TAP. JOHN R. SAYLOR, Pottstown, Pa.; Elizabeth E. Saylor, executrix of John R. Saylor, deceased, assignor to Pottstown Machine Company, Pottstown, Pa., a Corporation of Pennsylvania. Filed Apr. 22, 1922. Serial No. 556,102. 2 Claims. (Cl. 10—141.)

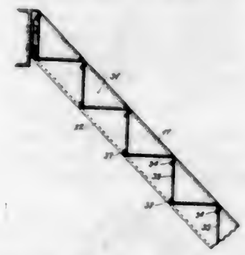
1. The combination in a tap, of a body portion; a series of bits secured to the body portion; alternate bits arranged

to cut one set of threads, the other bits being arranged to cut threads in the spaces between the threads cut by the first mentioned bits, the teeth of each bit being of V-shape at



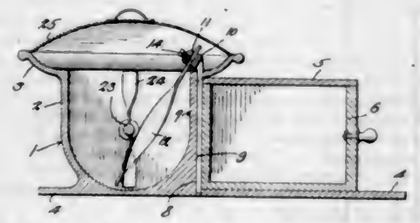
the base thereof and also of a greater depth than the theoretical full thread being cut so as to leave gullets at the base of the teeth for the free escape of the chips produced in cutting.

1,688,210. STAIR, LADDER, AND THE LIKE. WALLACE W. SMITH and VERNON B. TREVELLYAN, Chicago, Ill., and NELSON J. JEWETT, Jewel Station, Va. Filed Nov. 3, 1926. Serial No. 145,984. 9 Claims. (Cl. 189—43.)



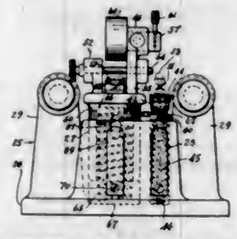
1. A structure of the class described comprising side supporting members and tread members connecting said supporting members and integral therewith at a portion of each of the ends of the tread members, said members being formed from a continuous blank by slitting and distortion only so that substantially no material of the blank is discarded.

1,688,211. BREAD MIXER. GEORGE SOLARZ, Gallitzin, Pa. Filed Sept. 22, 1926. Serial No. 137,037. 1 Claim. (Cl. 259—109.)



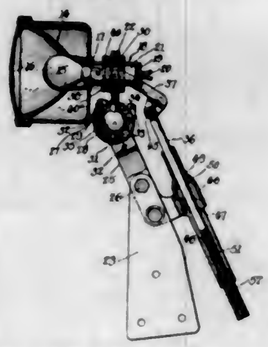
In a device of the class described, a receptacle having a wall provided with a substantially vertical socket, a single removable standard mounted at its lower end directly in the socket in the wall, a transverse head mounted intermediate its ends on the upper end of the standard and having a transverse seat, a blade disposed at an angle to the vertical and extended downwardly into the receptacle, the blade being adjustable in the direction of its length in the seat, a securing device engaging the blade and the head and holding the blade for longitudinal adjustment as aforesaid, and a beater journaled in the receptacle and including a blade located at the side of the blade on the standard, the blade being held in the seat of the standard against lateral swinging movement, thereby to prevent the blade of the standard from engaging the blade of the beater.

1,688,212. METHOD AND APPARATUS FOR RESURFACING WORN OR PITTED SURFACES. ADRIAN O. VAN DERVORT, Troy, N. Y. Filed Feb. 24, 1925. Serial No. 11,377. 11 Claims. (Cl. 51—59.)



1. A device comprising means for guiding a movable surfacing member with its active surface in a constant plane; and spring pressed means for yieldably holding a contact arm at a constant angle to said surface and for yieldably pressing the contact face of said arm toward said active surface but with less force in order that such constant angle may not be varied.

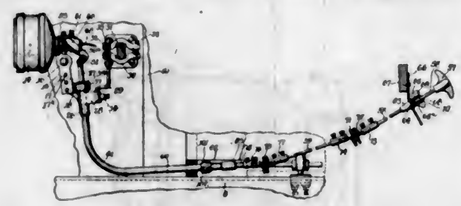
1,688,213. DIRIGIBLE LIGHT. LESTER M. WALDEN, Chicago, Ill. Filed July 28, 1924. Serial No. 728,690. 14 Claims. (Cl. 240—61.)



1. The combination with a dirigible light, of a stationary bracket, a ball mounted in said bracket to turn on a transverse horizontal axis and also upon a shifting upright axis, a lamp, a member rigid with said ball and with said lamp, an operating rod, and means pivotally connecting said rod with said member upon opposite sides of the axis of the lamp whereby a twisting motion imparted to the rod causes the member to swing on its upright axis and a longitudinal movement imparted to the rod causes the member to swing on its transverse horizontal axis.

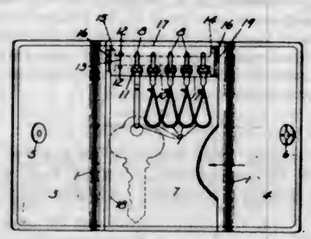
1,688,214. DIRIGIBLE LIGHT FOR MOTOR VEHICLES AND THE LIKE. LESTER M. WALDEN, Chicago, Ill. Filed May 29, 1925. Serial No. 33,753. 3 Claims. (Cl. 240—61.)

1. The combination with a motor vehicle having a chassis frame and a radiator at the forward end of the frame; of a lamp, means for supporting the lamp for up and down and lateral motion at a point forwardly of the radiator a substantial distance above the chassis frame, a bent tube having an uprightly disposed upper end portion fastened to said lamp-supporting means, means for supporting the lower rear end of said tube adjacent the chassis frame with the



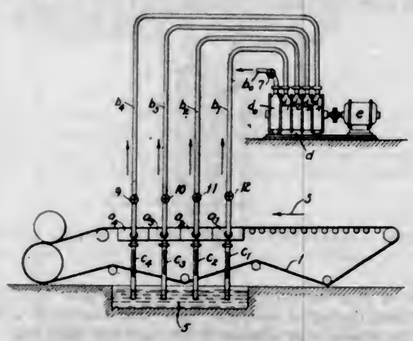
tube bent inwardly at a point immediately rearward of the radiator, and operating means for the lamp including a flexible shaft enclosed within said tube.

1,688,215. KEY CASE. WILLIS H. WEISSBROD, Greenfield, Mass. Filed Jan. 18, 1927. Serial No. 161,740. 5 Claims. (Cl. 150—40.)



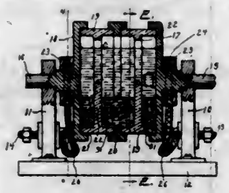
1. In a key case, a back, a perforated reenforcing sheet attached to said back, rings in the perforations in said sheet and projecting behind the same, a straight flexible thong passing through said rings behind said sheet, said thong having an intermediate portion with parallel edges, which is the portion that passes through the rings, and end portions beyond said rings that are wider than said intermediate portion, and said thong being of uniform thickness to render the same equally flexible throughout, and securing means for said end portions.

1,688,216. APPARATUS FOR WITHDRAWING AIR FROM SUCTION BOXES. MAX WENZEL, Muldenstein, near Bitterfeld, Germany. Filed July 7, 1928, Serial No. 290,933, and in Germany Oct. 29, 1926. 5 Claims. (Cl. 92—51.)



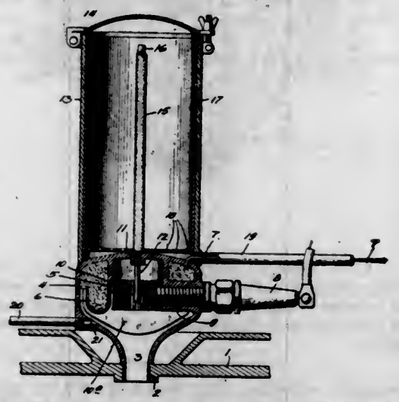
1. Suction apparatus for paper machines comprising in combination, suction boxes, a multi-stage vacuum pump and means communicating between separate stages of the pump and separate suction boxes.

1,688,217. FLUID-POLE ELECTRIC SWITCH. JAMES WHALEN, Omaha, Nebr. Filed Oct. 15, 1926. Serial No. 141,752. 4 Claims. (Cl. 200—152.)



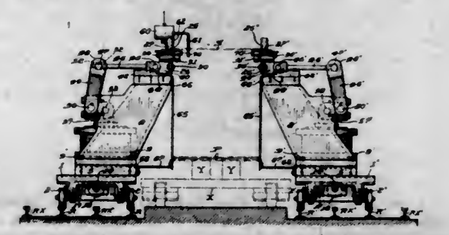
1. In an electric switch, a pole-forming composition consisting of a large number of separate small bodies of solid metal of high electrical conductivity, in combination with liquid metal connecting the bodies of solid metal interstitially and sufficient in quantity to make the mass as a whole substantially fluid.

1,688,218. INTERNAL-COMBUSTION ENGINE. WILLIAM WHEELER, Brooklyn, N. Y. Filed Feb. 11, 1924. Serial No. 691,929. 7 Claims. (Cl. 123—25.)



1. The combination, with an internal combustion engine, of an auxiliary chamber in communication therewith, moisture reception and collecting means located within and open to said chamber, and means for supporting a spark plug with its sparking points located within said chamber.

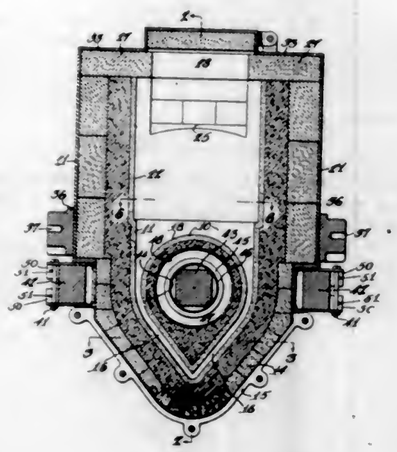
1,688,219. MACHINE FOR PILING SHEETS, PLATES, AND THE LIKE. JOHN D. WILLIAMS, Niles, Ohio. Filed June 3, 1926. Serial No. 113,523. 11 Claims. (Cl. 214—6.)



1. A machine of the class described comprising a pair of laterally spaced rails adapted to receive and afford vertical support to the lateral edges of a sheet as it is moved longitudinally between them, means for supporting the rails, means for adjusting the distance between

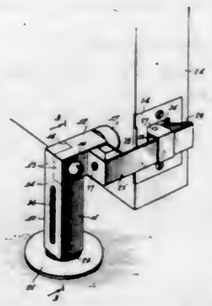
the rails, and means actuated by the moving sheet when it attains a predetermined position with respect to the rails operative to move the rails simultaneously horizontally outward in opposite directions to thereby withdraw their support from the sheet and allow it to fall vertically.

1,688,220. FURNACE LINING AND METHOD OF MAKING SAME. JAMES R. WYATT, Camden, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 1, 1923. Serial No. 672,073. 15 Claims. (Cl. 266—15.)



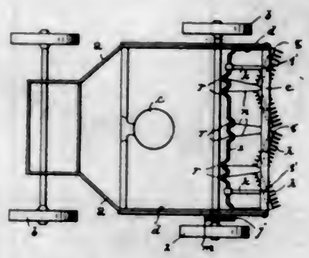
1. In an induction electric melting furnace, a furnace casing, rammed heat insulation therein and an inner lining adapted to hold the molten content of the furnace, resting upon the heat insulation and low in heat insulating quality.

1,688,221. COMBINATION DOOR STOP AND HOLDER. CHARLES J. ABBEY, Skowhegan, Me. Filed Mar. 6, 1928. Serial No. 259,471. 2 Claims. (Cl. 292—77.)



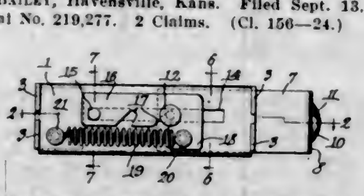
1. In a device of the class described, a flexible member adapted to be rigidly connected at one end, a cam on the other end of said member, and a roller carried by said member behind said cam, said cam serving for flexing said member when pressure is applied thereto by the edge of a door, and said roller being so positioned as to enter a recess in the edge of the door to releasably hold the door open.

1,688,222. HORSE-DRAWN RAKE. CARL CHRISTIAN ANDERSEN, Vierne Mark Pr. Gamby, Denmark. Filed July 23, 1926, Serial No. 124,389, and in Denmark Nov. 28, 1925. 3 Claims. (Cl. 56—375.)



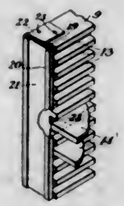
1. A raking machine comprising in combination a main frame, running wheels thereon, rearwardly extending supports, a plurality of holders pivotally mounted on said supports for movement in a horizontal plane, rake teeth carried by said holders, a crank shaft, means for rotating the crank shaft by the running wheels of the raking machine, and connecting rods connected to the crank shaft and to the ends of said holders for moving said holders in a horizontal plane.

1,688,223. SHADE AND CURTAIN BRACKET. ELMER M. BAILEY, Havensville, Kans. Filed Sept. 13, 1927. Serial No. 219,277. 2 Claims. (Cl. 156—24.)



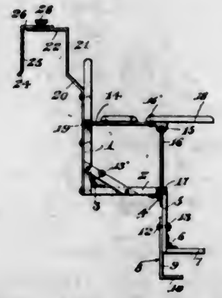
1. A device of the class described comprising first and second frame-engaging members connected for right-line sliding movement, the second member having a keeper, a pivot element mounted for right-line sliding movement on the first member, a latch mounted to swing on the pivot element and engageable with the keeper, and a spring connection between the latch and the first member.

1,688,224. CASE FOR MUSIC RECORDS. HARRY J. BELL, Waynesboro, Pa. Filed Sept. 9, 1927. Serial No. 218,508. 3 Claims. (Cl. 312—10.)



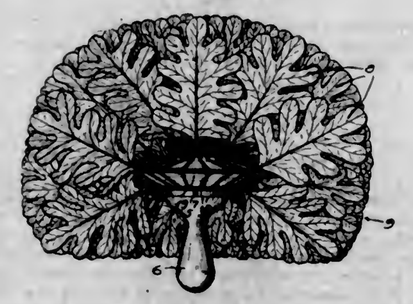
1. A case for music records and the like, comprising a casing having an open side, partitions detachably located in the casing and removable through the open side, and retainers for the partitions permanently mounted on the edges of the casing, the said retainers being provided with movable means for holding said partitions in operative position.

1,688,225. COLLAPSIBLE AUXILIARY SEAT. BILL JOSEPH BELOHLAVEK, San Antonio, Tex. Filed July 23, 1927. Serial No. 207,956. 1 Claim. (Cl. 155—79.)



A collapsible chair for suspension from a seat chair back comprising a chair back member, means secured on one side of said back member for suspending same on the seat back, a seat hingdly secured to the opposite side of the back member in a manner to be swung upwardly into opposed relation with respect to said back member, a hanger hingedly secured to the underside of the seat near the forward edge thereof whereby said hanger may be folded to lie in opposed relation to the seat on the underside thereof, an adjustable support carried on the rear side of the hanger and comprising a shank having an elongated opening adapted to receive a fastening device for adjustably securing the support to the hanger, and a right angularly disposed foot portion on the lower end of said shank, and a foot rest hingedly secured to the forward side of the hanger and adapted to be folded upward into opposed relation with respect to said hanger.

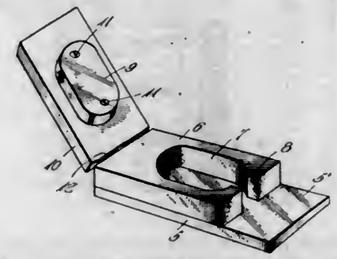
1,688,226. MASSAGE IMPLEMENT. DAVID BERGER, Philadelphia, Pa. Filed Feb. 29, 1928. Serial No. 257,993. 6 Claims. (Cl. 128—62.)



1. In a massage implement, a holder embodying a hollow metal shell having a circular series of radial leaf-stem receiving slots, said slots having enlarged portions forming entrance openings for the enlarged ends of the leaf stems.

1,688,227. PRESS. HENRY BERNIER, Easthampton, Mass. Filed Mar. 7, 1927. Serial No. 173,574. 4 Claims. (Cl. 107—15.)

1. A press comprising an open topped receptacle to receive the material to be compressed, said receptacle having a lateral passage which extends horizontally from the interior to the exterior of said receptacle and also extends vertically from the bottom through the upper side of said receptacle, and a movable pressing member downwardly insertible into the upper end of said receptacle, said passage permitting discharge of excess material as the pressing member is operated and also facilitating the use of a blade to sever the excess material from the cake formed in

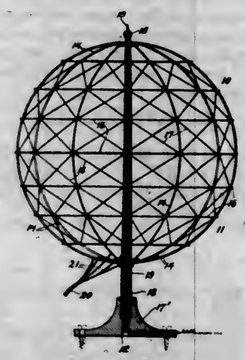


the receptacle as well as permitting horizontal insertion of the blade under the cake to remove the latter from the receptacle.

1,688,228. PROCESS FOR MANUFACTURING ALBUMIN PREPARATIONS. ALBERT BUSCH, Brunswick, Germany, assignor to Johann A. von Wülfing, Berlin, Germany. Filed Dec. 18, 1924. Serial No. 756,841. 7 Claims. (Cl. 260—9.)

4. The water soluble substantially neutral albuminous reaction product of casein and an alkali metal silicate.

1,688,229. ANTENNA. RAGNVALD ENGEBRETSEN, Brooklyn, N. Y. Filed Dec. 3, 1924. Serial No. 753,730. 1 Claim. (Cl. 250—33.)



An antenna comprising a plurality of spaced arcuate members arranged in globular formation and having their ends converging toward each other and fixedly connected together, spaced annular bands extending circumferentially about said arcuate shaped members and fixedly connected thereto, cross wires connecting intersecting portions of said members and said bands and fixed thereto, and lead-in wires joined to the respective arcuate shaped members.

1,688,230. WALL CONSTRUCTION. WILLIAM A. FANNING, Chicago, Ill. Filed Mar. 7, 1928. Serial No. 259,785. 3 Claims. (Cl. 72—102.)

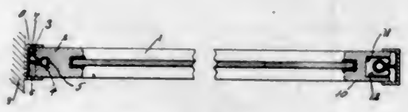
1. A wall construction comprising outer courses of oblong blocks having a width equal to the thickness of the wall, a length twice the width and a thickness one-half the width, said blocks being laid in courses alternately sidewise and edge wise; and inner courses of oblong blocks having a length equal to the width of said first mentioned blocks, a width one-half the length and a thickness one-

one-half the width, laid endwise between said sidewise courses, most of said inner blocks being laid with their



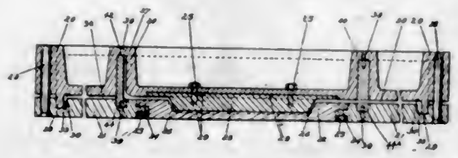
widths exposed, but some being turned edgewise to break joints or provide space for rafters or the like.

1,688,231. WINDOW CONSTRUCTION. ALBERT H. FISHER, East Cleveland, Ohio, assignor of one-half to Delbert M. Stafford, Lakewood, Ohio. Filed May 17, 1928. Serial No. 278,398. 12 Claims. (Cl. 189—72.)



1. A window construction comprising a pair of guide members supported on the frame and sash respectively, said guide members having interlocking engagement with each other and means between one of said guide members and its point of support adapted to compensate for irregularities of adjustment.

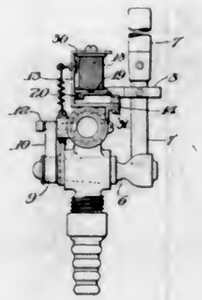
1,688,232. MEANS FOR MOLDING RUBBER DRAINING BOARDS FOR SINKS. JAMES PAUL HARKIN, Thornbury, Australia. Filed July 2, 1926. Serial No. 120,162. 10 Claims. (Cl. 18—42.)



1. Means for forming drain boards of rubber or the like, comprising two molds having registered openings to form a sink opening and provided with means for forming in the upper surface of the board drain grooves leading to said opening, and means associated with the molds whereby to form right hand, left hand, or even hand boards.

1,688,233. AUTOMATIC CUT-OFF FOR STOP COCKS. ANTON HASLINGER, Rockledge, Philadelphia, Pa. Filed Oct. 5, 1927. Serial No. 224,192. 3 Claims. (Cl. 137—161.)

1. In a device for the purpose indicated the combination with a movable member having a gravity pawl, of an armature and a support for pivotally supporting the armature, the support having a shoulder with which the gravity pawl engages for retaining the member in one position, an electric circuit including electro-magnets, and means thermostatically controlled and in the circuit for energizing the magnets to attract the armature, which disengages



the pawl from the shoulder and permits the release of the member.

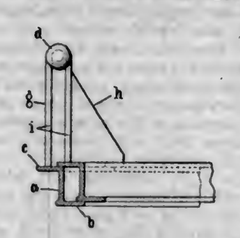
1,688,234. CARBIDE-LAMP HOLDER. CONRAD HENNECK, Frisco, Colo. Filed Aug. 6, 1926. Serial No. 127,646. Renewed Sept. 7, 1928. 1 Claim. (Cl. 248—41.)



A miner's lamp support which is designed to rest at an angle between a side wall and the floor of a mine, comprising a pair of spaced parallel members having offset ends, providing feet, spaced transverse strips connecting the members and each of said strips having a central opening therethrough for the reception of the hook of a lamp, said spaced members being adapted to receive between and have their confronting edges contact with the rear portions of the font of the lamp to prevent swinging of the lamp when arranged upon the support.

1,688,235. HINGE FOR CASEMENT WINDOWS. RALPH WALTER HOPE, Edgbaston, Birmingham, England, assignor to Henry Hope and Sons, Limited, Birmingham, England. Filed Feb. 23, 1927, Serial No. 170,376, and in Great Britain Mar. 5, 1926. 1 Claim. (Cl. 189—69.)

A hinged casement structure comprising a fixed flanged casement frame and a movable flanged casement frame associated therewith, each of said frames having slots in one of its flanges, a bracket having a plurality of projections cooperating with the slots in the fixed casement frame, a second bracket having projections cooperating with the slots in the movable casement frame, said projections being welded to and terminating substantially



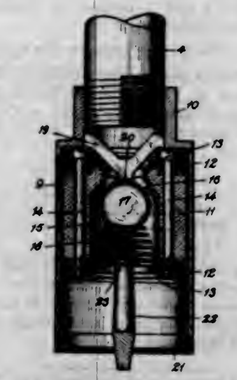
flush with the back of said flanges, and a pivot pin connecting said brackets.

1,688,236. FOUNTAIN PEN. CHARLES W. HOAN, Seattle, Wash. Filed Mar. 24, 1928. Serial No. 264,478. 1 Claim. (Cl. 120—42.)



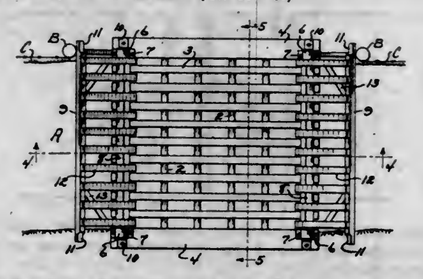
In a fountain pen, the combination with a barrel, a tip threadedly secured in one end of the barrel and having a tapered end terminating in a penetrating point disposed centrally of the barrel at the tip receiving end thereof, said tapered end having converging bores disposed in communication at their inner ends, a spoon received in said tip and being formed with a groove adapted to communicate with the communicating ends of the bores, a cap threadedly secured to the opposite end of the barrel, a cartridge having one end closed and a relatively thin wall for the opposite end thereof, and said cartridge being adapted to be positioned in said barrel and moved by the cap to cause the penetrating point to penetrate the thin wall to allow for the flow of fluid in the cartridge through the bores and groove of the spoon.

1,688,237. TANK PUMP. ANTON JONCHA, Maywood, Ill., assignor to Oil Products Appliance Co., Maywood, Ill., a Corporation of Illinois. Filed Jan. 18, 1928. Serial No. 247,643. 15 Claims. (Cl. 221—80.)



9. A foot valve for liquid dispensing pumps, including a valve proper, and a piston carrying such valve, said piston being movable without valve release to compensate for increase in the volume of the liquid column above it when the pump is idle.

1,688,238. STOCK BARRIER AND CROSSING. JOHN C. KAMAS, Bellville, Tex. Filed Aug. 13, 1927. Serial No. 212,753. 1 Claim. (Cl. 39—5.)

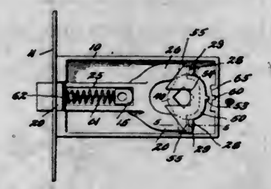


A barrier and crossing of the character described comprising a pair of base supports, cross pieces bridging the base supports and having their ends secured thereto, parallel bars secured in spaced relation with respect to each other and to said cross pieces, strips secured to the ends of said cross pieces and in parallelism with said bars, a sectional rack, side members included in said sectional rack, one side member of each section being substantially semi-circular in cross section and being hingedly secured adjacent the ends of said strips, angle plates secured to the strips and being engageable with the ends of the semi-circular in cross section side members to prevent longitudinal movement thereof, the other side members having reduced ends engageable with the strips, bars secured to said side members in spaced relation and arranged thereon in a manner whereby they will be disposed between the bars first mentioned when the sections are arranged in one position and converging braces bridging some of the bars.

1,688,239. CONTINUOUS PROCESS OF ORNAMENTING FLOOR COVERINGS. CHARLES O. KARPF, New York, N. Y. Filed Mar. 21, 1927. Serial No. 177,214. 1 Claim. (Cl. 41—26.)

The process of forming a floor covering which consists in applying to a waterproof flexible felt base of the flooring type a sealing coat of paint, which coat is smooth and flat, then applying to the sealing coat a decoration in ink from an etched plate having a wide mesh screen, then before the ink is dry reversely bending the flexible body so as to blend out the effects of the screen, and finally covering the body with a transparent wear coating.

1,688,240. DEAD LOCKING LATCH. HENRY W. KEIGWIN, Mount Vernon, N. Y. Filed Nov. 29, 1927. Serial No. 236,467. 14 Claims. (Cl. 292—169.)

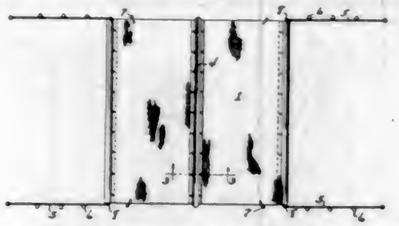


1. In a latch bolt, a bolt, a spindle composed of independently movable sections, a bolt operating device on each section, one of said devices being slidable on its section.

1,688,241. WEATHER SHIELD. RICHARD S. LAFOON, Richmond, Va. Filed Oct. 24, 1927. Serial No. 228,428. 3 Claims. (Cl. 156—15.)

1. A weather shield for bridging the space between two structures, comprising a flexible sheet sloping from

its edges to its center, a gutter of rigid material at the center of the sheet, rods connected with the edges of the



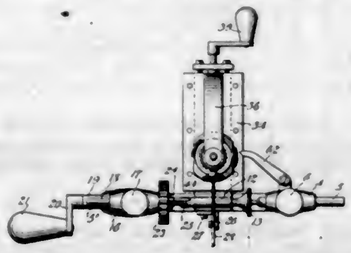
sheet and flexible members connected with the ends of the rods and adapted to be attached to parts of the structures.

1,688,242. PAPER-TOWEL CABINET DISPOSER. FRANK LAWRENCE and VIRGIL FRANCIS HALLIBURTON, Tulsa, Okla. Filed Aug. 13, 1926. Serial No. 129,040. 1 Claim. (Cl. 312—60.)



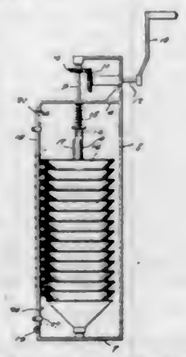
In a paper towel cabinet of the character described, a cabinet structure comprising a rear wall, side walls having substantially V-shaped notches opening at the forward edges thereof, top and bottom walls, closure doors for the upper and lower portion of the front side of the cabinet with the adjacent ends of the doors spaced from each other forming an intermediate opening adjacent said notches at the front side of the cabinet, a pair of downwardly inclined walls extending transversely of the cabinet from the front and rear sides thereof adjacent the lower end of the upper door, with adjacent edges spaced from each other and an angle strip extending transversely of the cabinet between the forward edges of the side walls adjacent the upper end of the lower door.

1,688,243. MACHINE FOR ROUNDING GEAR WHEELS. JESUS LOPEZ LIMERES, Habana, Cuba. Filed June 15, 1927. Serial No. 199,050. 2 Claims. (Cl. 90—3.)



1. A machine for rounding gear wheels, comprising a base, a pair of arms extending upwardly from said base, one of said arms having a single journal box and the other an upper and lower journal box, a sliding shaft mounted in said upper journal box, a second sliding shaft mounted in the journal box of the opposite arm, means for locking said shafts against sliding movement, a power shaft mounted in said lower journal box, a crank connected to said power shaft, a gear wheel rigidly secured to said power shaft, a gear wheel rigidly mounted on the shaft mounted in said upper journal box, said gear wheel meshing with the first mentioned gear wheel, a pin extending from said second mentioned gear wheel, a cutter shaft rotatably supported by the first two mentioned shafts, a pin extending from said cutter supporting shaft, said pin extending into the path of movement of the pin carried by said gear wheel whereby when said gear wheel is rotated the cutter shaft will be rotated, a cutter mounted on said cutter shaft, means for clamping said cutter rigidly to said cutter shaft, a carriage for supporting a gear wheel, means for centering the gear wheel on said carriage, and means for moving the carriage so that the gear wheel thereon will be brought into operative position in respect to said cutter whereby when said crank is rotated the cutter will function to cut the gear wheel.

1,688,244. CLEANER FOR SKIMMING DISKS OF CREAM SEPARATORS. CARL MOLSTAD, Newfolden, Minn. Filed July 1, 1927. Serial No. 202,898. 7 Claims. (Cl. 15—97.)



1. In an apparatus of the class described, a rotatably mounted shaft adapted to carry a plurality of skimmer disks, means connected with said shaft for the operation thereof, and a plurality of cleaner arms extending between said disks and arranged in cleaning position with the surfaces thereof.

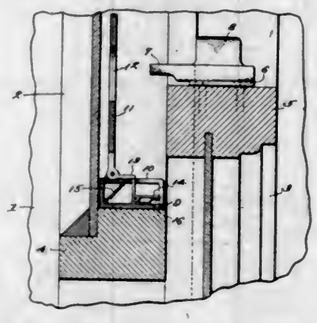
1,688,245. REMOVABLE EMANATION SEED. JOSEPH MUIR, New York, N. Y., assignor to The Radium Emanation Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 2, 1926. Serial No. 133,239. 13 Claims. (Cl. 174—177.)



1. As a new article of manufacture, a seed closed at its ends and containing radium emanation, for intratumoral radiation of diseased tissue, and adapted to be buried in the tissue by a seed implanter, said seed having a withdrawal member attached thereto.

1,688,246. SASH FASTENER. DORIS I. PLATT, Rapid City, S. Dak. Filed Sept. 28, 1926. Serial No. 138,254. 1 Claim. (Cl. 292—336.)

A sash fastener including a casing adapted to be secured upon the lower rail of an upper sash and having its front and its top side open to form an entrance, an operating element adapted to be secured upon the upper rail of a lower sash with a portion projecting therefrom over the rail of the upper sash and having an upstanding lug, a latch plate pivoted to the casing in line with and above the opening formed in the top thereof and formed with an opening to receive said lug, a short arm projecting from the pivoted end of the latch plate at a right angle to the latch plate, a spring normally urging the latch plate into horizontal position with the arm extending down-

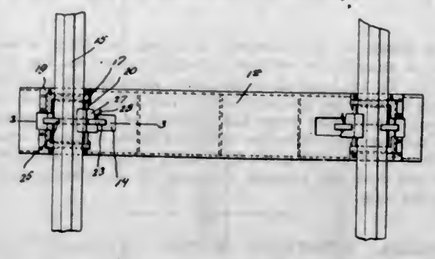


wardly into said casing and the plate extending across the rail of the lower sash and about the lug, a trip pivoted within the casing and having arms extending at right angles to each other, one of which is adapted to engage under the arm of the latch plate and releasably hold the latter in a vertical position and the other adapted to be engaged by the operating element when the sashes are closed, and a spring normally holding the trip in an operative position.

1,688,247. ALLOY AND ITS APPLICATION TO THE MANUFACTURE OF ELECTRICAL CONDUCTORS. WILLOUGHBY STATHAM SMITH, Newton Poppleford, HENRY JOSEPH GARNETT, Sevenoaks, and JOHN ANCEL HOLDEN, Gilden Park, England. Filed Jan. 6, 1927, Serial No. 159,497, and in Great Britain July 10, 1926. 12 Claims. (Cl. 75—1.)

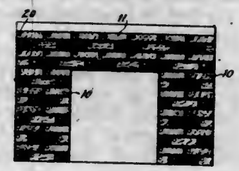
1. An alloy free from carbon composed of 6 to 17% iron, 1 to 5% aluminum, 1 to 5% of a fourth metal for increasing the electrical resistance and selected from a group comprising chromium, molybdenum, tungsten, vanadium, or silicon and the balance nickel.

1,688,248. METAL RAILWAY TIE. DANIEL O. SNYDER, Muncy, Pa. Filed Nov. 8, 1927. Serial No. 231,880. 4 Claims. (Cl. 238—285.)



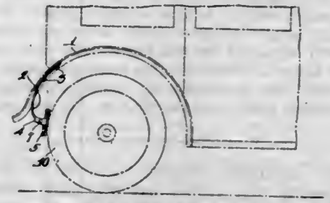
1. In a railway structure of the class described, a hollow sheet metal tie provided with an elongated opening, a cushioning block extending transversely across the tie and opening, means for fastening said block to the tie, a rail resting on said cushioning means, and a rail clamp for fastening the rail to the cushioning means, said rail clamp having portions extending up through the opening in said tie.

1,688,249. MEANS FOR DISPLAYING SAMPLES. BERNARD F. STENZ, New York, N. Y., assignor to Simplex Sampling Association, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 20, 1927. Serial No. 162,404. 3 Claims. (Cl. 35—16.)



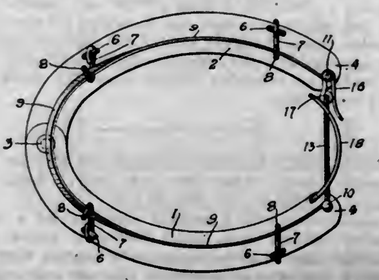
1. A rectangular display card or slab having upon one surface thereof a facsimile representation in shape, color and texture of one surface of a rectangular architectural building unit, and a marginal extension along two adjacent angularly disposed edges of said representation to simulate mortar, the other angularly disposed marginal edges of the facsimile representation being coincident with the corresponding marginal edges of the card or slab.

1,688,250. PROTECTING GUARD FOR TIRES. HARRY P. THOMPSON, Philadelphia, Pa. Filed Dec. 31, 1926. Serial No. 158,356. 1 Claim. (Cl. 280—158.)



A protecting tire guard, comprising a resilient hanger for suspension from a fender of an automobile, the lower end of the hanger curving downwardly and slightly forwardly toward the rear portion of the rear wheel of the automobile, the extremity of the hanger terminating in forks, a guard shoe curved in cross section to conform to the transverse curvature of the tire on the wheel and curved concentric with the wheel, the rear face of the guard having rearwardly projecting spaced arms straddling the arms of the fork, a pivot passing through the arms of the fork of the rearwardly projecting arms of the guard shoe, two sets of resilient means consisting of coiled springs mounted upon the pivot, said coil springs having terminal extensions cooperating with the hanger and the rear face of the guard shoe, to retain the shoe in substantial position concentric to the tire, the engaging face of the shoe having angularly disposed ribs for deflecting foreign matter from the tread of the tire.

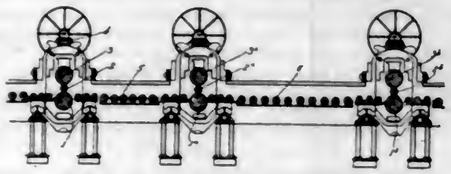
1,688,251. HORSESHOE. ANDREW TRAKALO, The Pas, Manitoba, Canada. Filed Aug. 18, 1927. Serial No. 213,845. 1 Claim. (Cl. 168—22.)



In a horseshoe of the type described, a shoe formed of side sections hinged together at their forward ends, links carried by the upper sides of the sections, vertical

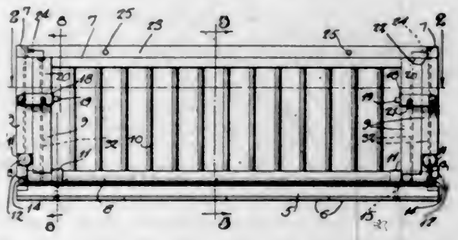
posts at the rear ends of the sections, a metallic strap threaded through the upper ends of the links and anchored at their ends to the posts, and a link attached at one end to one of said posts, and a spring clasp carried by the other end of the last-named link and detachably engaging the other post to retain the shoe on a hoof.

1,688,252. PLATE MILL AND PROCESS OF ROLLING HOT METAL. JOHN B. TYTUS, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Apr. 11, 1925. Serial No. 22,272. 2 Claims. (Cl. 80—35.)



2. A plate mill of the character described, comprising a plurality of stands of rolls, each having a driven, lower, large diameter roll, a central, small diameter idler roll, and a top larger diameter, and screw controlled roll, said stands arranged to act successively on the piece, said rolls being so constructed and operated as to present progressively less convexity of opening, through which the piece must pass, from the first to the last stand.

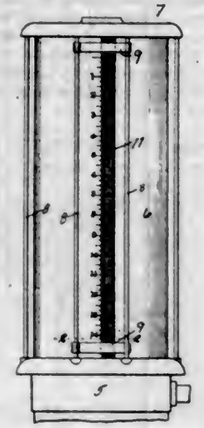
1,688,253. FOLDING CRATE. ALONZO W. WAGONER, Hammonville, Ky. Filed May 20, 1927. Serial No. 192,950. 2 Claims. (Cl. 217—47.)



1. In a folding crate, a bottom wall, end and side walls respectively hinged to the bottom wall upon horizontal pivots disposed in different horizontal planes, said end and side walls embodying rectangular frames having end rails, and means to snugly embrace adjacent end rails at the corners of the crate to releasably clamp the same together and hold the end and side walls in unfolded vertical position, each of said end rail clamping means embodying a plate and a hasp pivoted on opposite sides of an end rail of one wall and a swinging keeper loop engageable across the inner side of the adjacent end rail of the adjacent wall and hinged to the pivoted plate, said hasp having an extension tongue releasably engageable by said keeper loop.

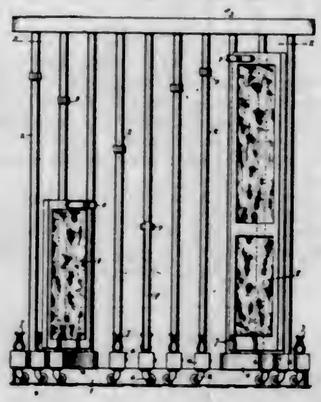
1,688,254. PRICE GAUGE. CHARLES W. WALLER, Fort Klamath, Oreg. Filed Oct. 24, 1927. Serial No. 228,440. 1 Claim. (Cl. 40—63.)

In combination with a gasoline pump having a visible dispensing cylinder upon which indicia is placed, of a price gauge adapted to be supported in contact with said cylinder, a pair of rods positioned adjacent said cylinder and spaced therefrom, said rods being parallel to said price gauge and slidable clips vertically movable on said rods, said clips having a curvature corresponding to the curvature of said dispensing cylinder and adapted to



engage said price strip for the purpose of holding said price strip against said dispensing cylinder at a point between said rods.

1,688,255. DISPLAY DEVICE FOR SCREENS. LOUIS WASCH, Mahanoy City, Pa. Filed July 19, 1927. Serial No. 206,977. 1 Claim. (Cl. 211—13.)

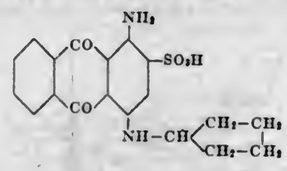


A device of the character described, including a base bar, a plurality of vertical cylindrical posts on the base bar, a top bar secured by the posts, arms having openings therein receiving the posts and swinging freely therefrom, supporting devices under the free ends of the arms, means on the arms to receive the lower end of the screen or other device, and a clamp on each post adjustable vertically on the post and adapted to clamp an article supported by the arm.

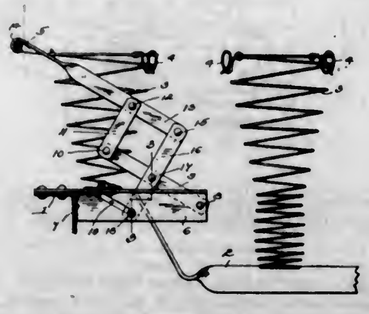
1,688,256. DYESTUFFS OF THE ANTHRAQUINONE SERIES. KLAUS WEINAND, Cologne-Flittard, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 23, 1927, Serial No. 242,282, and in Germany Dec. 20, 1926. 8 Claims. (Cl. 260—60.)

4. As a new product 1-amino-4-pentamethyleneamine-anthraquinone-2-sulfonic acid, which crystallizes in blue needles, being soluble in water with a blue coloration, dyeing

wool exceedingly pure, blue shades, fast to light and having in a free state most probably the formula:

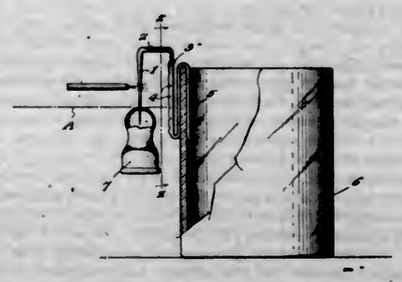


1,688,257. BEDSPRING BRACE. JACOB B. WHITE, Columbus, Ohio. Filed May 6, 1926. Serial No. 107,233. 4 Claims. (Cl. 5—262.)



1. In a bed spring, a rigid lower frame, a spaced upper frame, springs interposed between said frames for resiliently spacing the latter, a transversely extending bracket rigidly connected with said lower frame, a pair of cross links, pivoted to each other at a point intermediate the length, one of said links having the lower end thereof connected by a fixed pivot with said bracket, the other of said links having its lower end connected with said bracket by a pin and slot connection, an upwardly and angularly extending arm having the upper end thereof engaged with said upper frame, the lower end of said arm being pivotally connected with the upper end of the link having the pin and slot connection with said bracket, and a relatively short link connection between an intermediate part of the length of said arm and the upper end of the link having the fixed pivot connection with said bracket.

1,688,258. BOTTLE-NIPPLE PERFORATOR. ERVIN A. YOUNG, Wadsworth, Ohio. Filed July 18, 1927. Serial No. 206,605. 3 Claims. (Cl. 164—119.)
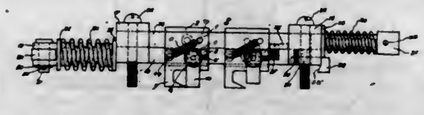


1. A device of the class described comprising a needle, a resilient hook carried by the needle for engagement with a support, and a shank disposed between the needle and hook and having graduations thereon, said needle adapted to be placed in penetrating engagement with a nipple at a point corresponding with a graduation.

1,688,259. LIGHT FILTER. FRANZ ZERNIK, Wurzburg, Germany. Filed Apr. 27, 1925, Serial No. 26,292, and in Germany May 8, 1924. 7 Claims. (Cl. 167—9.)

1. Light filters containing hydroxy-quinoline sulphonic acids as efficacious substances.

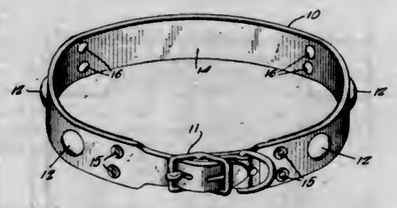
3. Light filters containing as efficacious substances derivatives of the hydroxy-quinoline sulphonic acids in which a hydro-carbon radical has been substituted for the hydrogen of the hydroxyl.

1,688,260. AUTOMATIC NAIL-FEEDING DEVICE FOR NAILING MACHINES. EMILE ALIBERT, Paris, France. Filed Dec. 12, 1925, Serial No. 75,091, and in France Dec. 12, 1924. 3 Claims. (Cl. 1—16.)



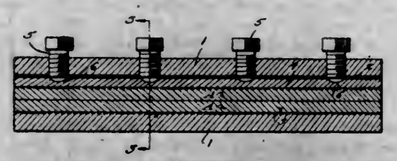
3. A nail feeding mechanism for nailing machines comprising a plurality of race ways, means for feeding nails therefrom including U-shaped members for cooperation with the race ways, bars carrying said U-shaped members, cover plates for holding said members on said bars, means for securing said U-shaped members to either one of the bars, a groove formed in the bottom portion of each of said U-shaped members, abutments disposed at the ends of said grooves, ejectors slidable in said grooves and spring held in engagement with said abutments, and having lateral grooves, closing abutments for said race ways received in said lateral grooves, and adjustable therein, and means for retaining said closing abutments in their adjusted positions.

1,688,261. ANIMAL COLLAR. GEORGE R. BRANNER, Daytona, Fla. Filed Aug. 4, 1927. Serial No. 210,599. 3 Claims. (Cl. 119—106.)



1. In an animal collar, a copper lining, copper rivets extending through the collar and lining to secure the latter in place, and rounded heads upon the ends of the rivets with the heads extending beyond the face of the lining for contact with the neck of an animal.

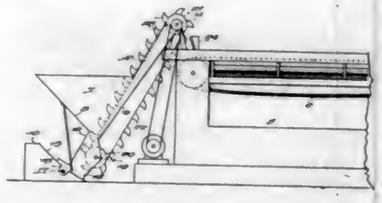
1,688,262. BELT CLAMP. ALONZO ROBERTSON BRUCE, Mexia, and ED T. THORNTON, Wortham, Tex. Filed Sept. 8, 1927. Serial No. 218,332. 1 Claim. (Cl. 24—37.)



A belt fastener comprising a body of substantially circular shape in cross section and having a rectangular socket therein which opens out through one face of the body, said body also having threaded holes therein, the inner ends of which communicate with the socket, bolts

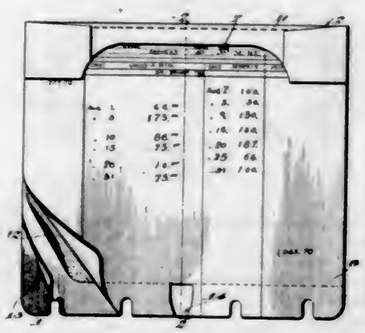
threaded in said hole, a plate in the socket having recesses therein for receiving the ends of the bolts, a pair of longitudinally extending ribs on the outer face of said plate for engaging a belt end placed in the socket and a longitudinally extending rib on that wall of the socket which is opposite the wall through which the bolts pass and against which the other belt end bears, the rib on the wall being centrally arranged with respect to the ribs on the plate.

1,688,263. FEEDING MEANS FOR GRADING APPARATUS. WILLIAM P. BULLARD, Albany, Ga. Filed Mar. 27, 1924. Serial No. 702,396. 3 Claims. (Cl. 198—55.)



1. In apparatus of the character set forth, means for feeding nuts comprising a holding hopper, an inclined upwardly moving conveyor extending upwardly from the hopper and having its upper delivery end permanently positioned to deliver to nut receiving mechanism, said hopper and the lower end of the conveyor being both adjustable to different positions with relation to the delivery end, to vary the inclination of the conveyor.

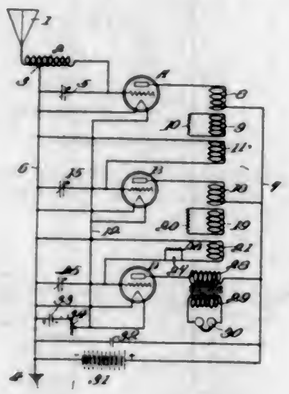
1,688,264. HOLDER FOR LEDGER SHEETS. JOHN CARROLL CARPENTER, Oswego, Kans. Filed Oct. 1, 1926. Serial No. 138,945. 3 Claims. (Cl. 282—29.)



1. As an article of manufacture, a manifolding backing sheet having a down-turned top and adjacent side ears lapped thereover to form therewith a pocket, the lower edge of the down-turned top between its sides being cut back to form a sighting opening, and a carbon sheet being permanently mounted at its upper end within said pocket.

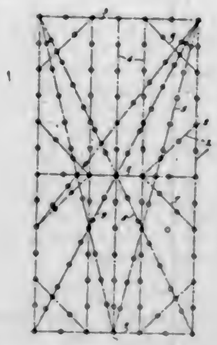
1,688,265. RADIOCIRCUITS. RALPH A. CLARKE, Worcester, Mass., assignor to Standard Radio Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 18, 1925. Serial No. 9,988. 3 Claims. (Cl. 179—171.)

1. In a radio frequency amplifying system, a plurality of three-electrode electron discharge repeaters with output and tuned input circuits, transformers electro-magnetically coupling the output and input circuits of successive repeaters, an untuned tertiary winding in said transformers inter-



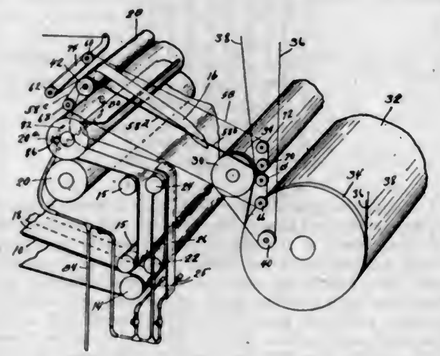
posed between the primary and secondary windings, and a resistance short-circuiting said tertiary winding.

1,688,266. ELECTRICAL COMPOUND LETTER. BRADFORD D. COFFEY, Jersey City, N. J. Filed Aug. 17, 1925. Serial No. 50,771. 1 Claim. (Cl. 40—30.)



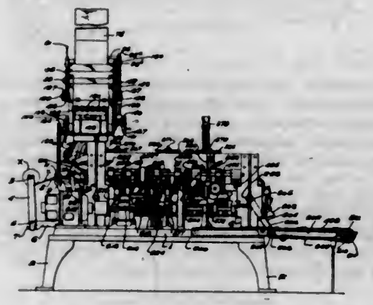
A compound letter for electric signs comprising a plurality of series of lamp members, each series being arranged in a straight line, said series of lamp members including a plurality of vertical rows of lamp members, a horizontal row of lamp members at the top and bottom, a horizontal row at the center, a pair of diagonal rows of lamp members, one of said diagonal rows extending from one corner to the opposite corner at the opposite end and the other diagonal row of lamp members connecting the remaining corners, said diagonal rows of lamp members converging at the center of the letter, a straight row of lamp members adjacent each corner of the letter positioned diagonally across the respective corners, a pair of rows of lamp members forming a V extending from the two upper corners to the central lamp member at the lower end of the letter, a pair of V-shaped rows of lamp members at the center with their apexes extending at right angles to the vertical, and an inclined row of lamp members extending from one of the upper corners of the letter at an angle downwardly to the opposite side of the letter and passing through a lamp member half-way between said opposite side and the center of the letter.

1,688,267. PAPER MAKING. HERVEY G. CRAM, Millinocket, Me., assignor to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed Aug. 19, 1927. Serial No. 214,191. 15 Claims. (Cl. 92—40.)



1. The method of guiding the paper web of a paper making machine from the press through the drier which consists in engaging the paper web at the press by a carrier device, conducting the paper web by said carrier device from the press to the drier and delivering it automatically to the engagement of a second carrier device at the drier, and carrying the paper web by said second carrier device through the drier and around the drier rolls thereof.

1,688,268. BAG MAKING AND FILLING MACHINE. JOHN T. DALTON, Durham, N. C., assignor of one-half to Richard H. Wright, Durham, N. C. Filed Aug. 19, 1927. Serial No. 214,165. 30 Claims. (Cl. 226—53.)

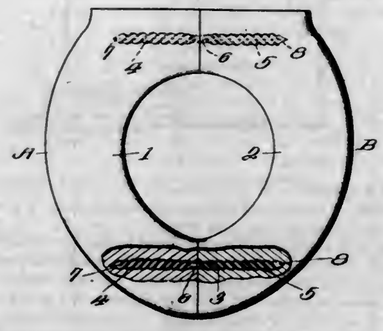


5. A packaging machine of the class described comprising weighing mechanism for weighing and delivering charges of the material to be packaged, means for advancing a strip of bag making material past a position to received the weighed charges successively, means for sewing said strip longitudinally during its advance, means for severing said strip transversely to form bag sections, travelling grippers operative to engage the severed bag sections to advance them and each rotatable on an axis transverse to the direction of advance to bring the several edges to the respective bag section successively into a predetermined position, and means for sewing the severed edges of each bag section when brought into said position.

25. In a machine of the class described, the combination of means for advancing bag sections, sewing means operative successively on the bag sections during their advance, tag feeding means including a reciprocatory tag delivery member, and a rotatable member carrying grippers operative to receive tags from said delivery member and to advance them to the sewing means to be stitched thereby and thus attached to the respective bag sections.

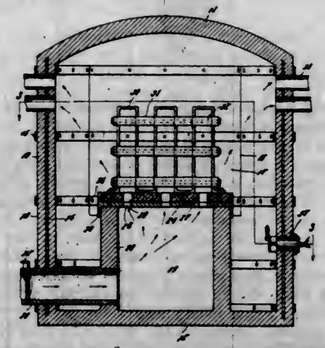
27. In a machine of the class described, the combination of means for supplying a strip of bag making material, means for supplying charges of material to said strip at intervals in its length, means for severing said strip at points between said charges, means for closing the free edges of the bag sections, individual gripper units guided to travel in a path to advance the strip and the bag sections cut therefrom, and a revoluble screw extending parallel to the path of travel of the gripper units and cooperative therewith to advance them, the portion of said screw which cooperates with the gripper unit which has passed the point where the strip is severed having an increased pitch to accelerate the speed of travel of such unit and thereby separate it from the next following gripper unit.

1,688,269. THREADED CONNECTING MEMBER. EDWARD L. DELANY, Brooklyn, N. Y., and RICHARD PAUL CHARLES, Bristol, Va., assignors to Delany Realty Corporation, Brooklyn, N. Y. Filed Feb. 10, 1925. Serial No. 8,278. 1 Claim. (Cl. 85—42.)



A threaded connecting member comprising a central smooth portion, right and left hand coarse wood threaded portions on opposite sides of the central smooth portion, and each threaded portion having a series of threads of such a pitch that the connecting member is caused to rotate and cut its own threads by pressure only in the members to be connected.

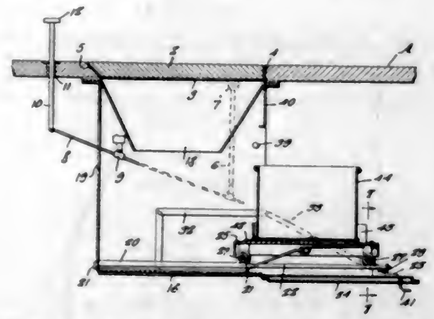
1,688,270. ELECTRIC AIR-HEATING FURNACE. WILLIAM DOHERTY, West Philadelphia, Pa. Filed Sept. 27, 1926. Serial No. 138,012. 2 Claims. (Cl. 219—34.)



1. In a heater of the character described, a casing provided near its top with a plurality of radially extending outlet pipes, an upstanding chamber member within the central

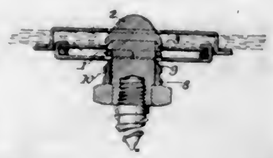
lower portion of the casing, a cold air inlet pipe extending thru one side of the casing into said chamber member, a metal cover on said chamber member having a plurality of holes therein, a refractory top on said cover having holes registering with said first named holes, and heating means mounted above and supported upon said chamber structure and including a serpentine resistance member arranged in upright position and secured upon said refractory top with its alternate convolutions located above and registering with said holes.

1,688,271. REFUSE RECEIVING AND HANDLING APPARATUS. SPENCER E. FINCH, Bailey, N. C. Filed Sept. 15, 1927. Serial No. 219,770. 6 Claims. (Cl. 220—1.)



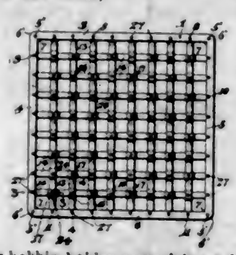
1. An apparatus of the character described comprising a housing, a closure for the top of said housing, a system of levers for actuating said closure, a door for the front wall of said housing, tracks arranged in the bottom of said housing, rods carried by said door and tracks respectively, a carriage mounted for movement on said tracks and rods, means between said door and carriage for moving the latter in and out of said housing, a receptacle carried by said carriage, and a funnel shaped member depending from the top of said housing in a manner to overlie the receptacle when the carriage is disposed within the housing.

1,688,272. SPRING-PRESSURE BUTTON. LOUIS FOULETIER, Grenoble, France. Filed May 14, 1926, Serial No. 109,184, and in France July 7, 1925. 1 Claim. (Cl. 24—211.)



In a spring pressure button, the combination of a cup-shaped member comprising an aperture formed at its centre and adapted to be fastened to on of the two pieces to be buttoned together, a spring disposed in said cup-shaped member, a stud provided with a head and a shank, adapted to be fastened to the second of the pieces to be buttoned together, and to be inserted into the aperture in the said cup-shaped member, the buttom of the head having formed therein a recess serving as an abutment for contact with the said spring, a ring whose diameter at least equals that of the said head and is slidable on the said shank, said ring comprising adjacent the head a beveled edge adapted to engage the said recess in the head and thus to cause the said spring to expand whereby the latter may slide upon the said head when the said cup-shaped member is drawn upon the same and an annular groove formed in the periphery of said ring.

1,688,273. SPOOL HOLDER. GEORGE D. HAWLEY, Lowell, Mass. Filed Apr. 27, 1927. Serial No. 186,989. 8 Claims. (Cl. 242—130.)



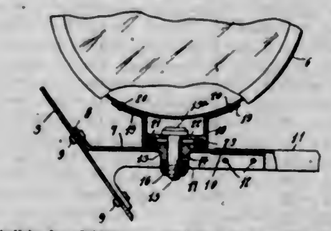
1. A spool or bobbin holder comprising a frame, a pair of oppositely disposed sets of spaced strips positioned against the inner face of the frame and extending completely across the opening formed thereby, each of said strips provided with alternately disposed upset and depressed portions, the upset portions being spaced from the depressed portions, said upper portions being of inverted U-shape and said depressed portions being U-shape, the strips of one set extending through the upset and depressed portions of and abutting the strips of the other set, stationary retainer elements extending through and projecting from the abutting portions of the strips of said sets for securing said strips together, and stationary retainer elements extending through the ends of the strips and the body of the frame for securing them together and further projecting from the frame.

1,688,274. TESTING OR DEMONSTRATING APPARATUS. BRYCE HAYNES, New York, N. Y. Filed May 27, 1927. Serial No. 194,744. 5 Claims. (Cl. 209—112.)



5. A device for demonstrating the rolling qualities of spherical objects comprising a putting board having substantially horizontal surface provided with a centrally disposed outlet adjacent one end thereof to receive objects having accurate rolling qualities and side outlets to receive balls having inaccurate rolling qualities, and means associated with the other end of the board for rolling the objects upon the transverse center of the board and towards the opposite end and outlet, and at such a speed that the objects having accurate rolling qualities will be directed into the centrally disposed outlet.

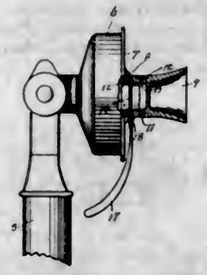
1,688,275. DIRIGIBLE HEADLIGHT. JULMER HELSTROM, Virginia, Minn. Filed Nov. 5, 1925. Serial No. 67,029. 1 Claim. (Cl. 240—61.)



A dirigible headlight, comprising a mounting consisting of a circular hollow standard, outwardly and upwardly curved ears adapted to engage a headlight casing to support it on the standard, a plate arranged within the

standard intermediate of the ends thereof, means engaging said plate for mounting said standard and the headlight casing for rotation, an anti-friction bearing engaging said plate and supporting the standard, said bearing being enclosed by the standard below the plate, and an arm extending radially from the standard and adapted for actuation to rotate the standard.

1,688,276. TELEPHONE ATTACHMENT. ZEDDIE E. JONES, San Francisco, Calif. Filed Feb. 12, 1927. Serial No. 167,773. 4 Claims. (Cl. 179—188.)

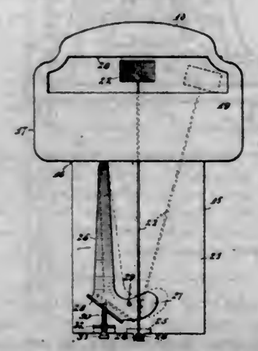


1. In combination with a telephone transmitter having a face plate and mouth piece, of a cylindrical member adapted to be secured between the face plate and mouth piece, a member including an upper portion diametrically extending through said cylindrical member and pivoted therein, a disc secured to said upper portion for partial rotary movement in a horizontal plane in said cylindrical member, and a handle formed with said upper portion whereby the disc may be moved to close said cylindrical member and means for normally retaining said disc in open position.

1,688,277. DIFFERENTIAL-FLOTATION PROCESS FOR MIXED SULPHIDE ORES. KOJIRO KAWAMURA, Tokyo-Fu, Japan, assignor of one-half to Yoshimatsu Yokoyama, Kanazawa, Japan. Filed Jan. 18, 1926. Serial No. 82,125. 1 Claim. (Cl. 209—167.)

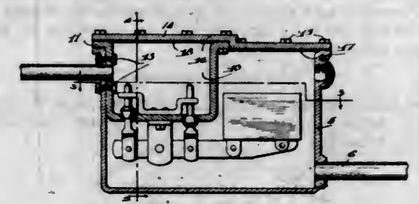
The process of differentially floating ores comprising adding crude commercial anhydrous chromic acid with alkali to neutralize sulphuric acid therein to a pulp containing a mixture of sulphide minerals, said chromic acid being added in quantity sufficient to inhibit flotation of cupriferous and ferric sulphides without affecting zinc sulphide, and then subjecting the mixture to flotation.

1,688,278. ADVERTISING DEVICE FOR DISPENSING MACHINES. JOHN EDWIN KENKEL, Great Falls, Mont. Filed Feb. 3, 1927. Serial No. 165,639. 5 Claims. (Cl. 40—138.)



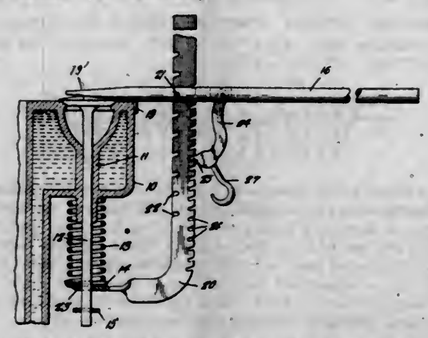
1. An advertising device comprising a casing having a face for advertising matter, a flexible member secured at one end to said casing, an object at the free end of the flexible member adjacent said face, said object movable with the flexible member when the latter is flexed, to attract attention to said face, the object being moved alternately in opposite directions when the flexible member is flexed, and means for flexing said flexible member.

1,688,279. LIQUID-SUPPLY TANK. WILLIAM S. LOCKE, Portland, Oreg., assignor of one-half to Portland Realty and Trust Co., Portland, Oreg., a Corporation of Oregon. Filed Nov. 26, 1927. Serial No. 235,965. 5 Claims. (Cl. 137—104.)



4. In a liquid supply tank, a main reservoir having an outlet, a second reservoir mounted therein having communication with a source of liquid supply and provided with a plurality of outlet openings in its bottom, a bracket depending from said bottom, a lever pivoted intermediate its ends to the bracket, vertically movable valves movable towards and away from the openings and having operative connection with the lever, a float carried by the lever to actuate the valves to open and closed position incident to the rise and fall of the float, and guides for causing the valves to move in a true vertical position.

1,688,280. VALVE LIFTER. DONALD G. LUDINGTON, Masontown, Pa. Filed Dec. 6, 1926. Serial No. 152,953. 2 Claims. (Cl. 29—86.3.)

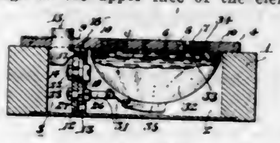


1. A valve lifter, comprising an operating lever, adapted to be engaged upon the top of the valve, an L-shaped lifting member, adapted for engagement with the valve spring seat, one edge of said lifter member being provided with a series of notches and said operating lever having a transverse element selectively engageable with said notches, the other edge of said L-shaped lifting member being provided with a series of notches, and a retaining dog, pivotally suspended from the operating lever and detachably engageable with a selective one of the second named series of notches.

1,688,281. INKING ATTACHMENT. WILLIAM MACDONALD, Dennison, Ohio. Filed Sept. 23, 1927. Serial No. 221,569. 5 Claims. (Cl. 101—114.)

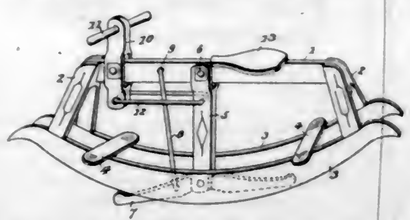
1. An inking attachment for an impression element of that type provided with openings for the passage of ink to its upper face, an open top flexible receptacle adapted to be secured to the lower face of said element and com-

municating with the openings in the element and providing an ink reservoir, means connected with said receptacle for contracting it to force a supply of ink through said openings to the upper face of the element, and an



actuating element for extension through the impression element and shifted in one direction by a part of a printing press to provide for the operation of said means to contact the receptacle.

1,688,282. ROCKER TOY. LOGAN L. MALLARD, Norfolk, Va. Filed Mar. 30, 1926. Serial No. 98,544. 9 Claims. (Cl. 272—53.)



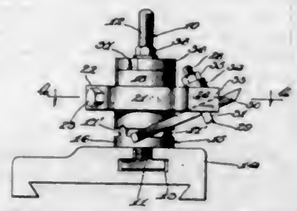
1. A toy of the class described comprising a body including rockers, a double ended floor pressure member pivoted on said body and suspended between said rockers, the ends of said floor pressure member being alternately engageable with the floor and means for manually actuating said floor pressure member.

1,688,283. DOUGH CUTTER. FERDINAND MATZELLE, Saginaw, Mich. Filed Oct. 27, 1926. Serial No. 144,606. 1 Claim. (Cl. 157—51.)



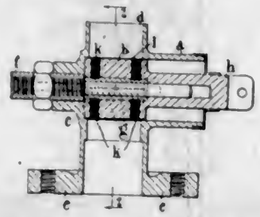
A dough cutter comprising a flexible bar, a handle-bracket slidably mounted on each end of said bar and releasably secured thereto, a handle secured to each bracket parallel with the bar and in offset relation thereto, blades formed with elongated substantially horizontal cutting edges and having an apertured block integral with each blade to slidingly receive the bar, and a set screw for clamping the block in variously adjusted positions along the bar.

1,688,284. TOOL HOLDER. RUDOLPH MILECZ, Hoboken, N. J., assignor to Julius Gluck, New York, N. Y. Filed July 8, 1927. Serial No. 204,383. 5 Claims. (Cl. 82—36.)



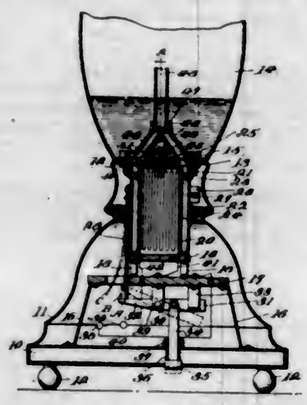
1. A tool holder comprising a bolt, a base member on said bolt, a nut threaded to said bolt and bearing against said base member, a tool holding unit seated on said base member, means for removably holding said tool holding unit seated on said base member embodying a washer on said bolt bearing against said tool holding unit, a nut threaded to said bolt and bearing against said washer, and co-acting means between said base member and said tool holding unit for properly aligning said tool holder unit with said base member, said co-acting means including spaced lugs rising from said base member and corresponding notches on said tool holder unit for receiving the respective lugs.

1,688,285. CARBURETOR. MATTHEW PURVIS and THOMAS LEE, Plymouth, England. Filed June 29, 1926, Serial No. 119,399, and in Great Britain May 25, 1926. 2 Claims. (Cl. 261—44.)



1. A carburetor for internal combustion engines comprising in combination a jet tube through which the fuel may issue laterally, an air inlet pipe across which said jet tube extends, a piston surrounding said jet tube, a cylinder within which said piston is slidable and an axially split sleeve surrounding said piston and making fluid-tight contact wth the wall of said cylinder.

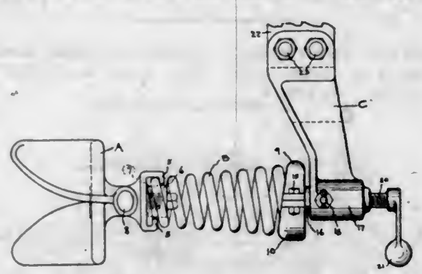
1,688,286. ELECTRIC HEATING VESSEL. LUDWIG REICHOLD, Winsted, Conn., assignor to The Fitzgerald Mfg. Company, Torrington, Conn., a Corporation of Connecticut. Filed June 11, 1926. Serial No. 115,262. 18 Claims. (Cl. 219—43.)



1. In a liquid heating vessel, a reservoir, an outer cup communicating with said reservoir, an inner cup cooperating with said outer cup to define an annular liquid well, an annular electric heating element located within said inner cup, and means to hold said element closely against the inner side wall of said well.

1,688,287. AUTOMATIC TRAIN-PIPE COUPLING. JOSEPH ROBINSON, New York, N. Y. Filed July 1, 1921, Serial No. 481,966. Renewed Jan. 3, 1927. 11 Claims. (Cl. 285—58.)

1. In an automatic train pipe connector, a bracket having a chamber extending into the same from the front thereof, a member extending from the front of the bracket rearwardly into said chamber, a coupling head, yielding means connected to said head and to the front end of



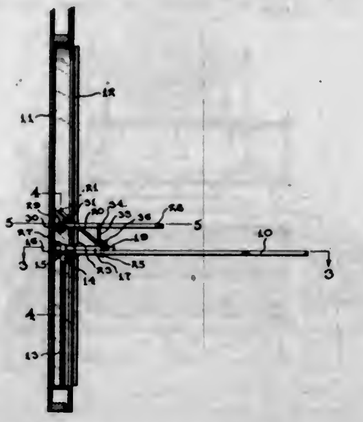
said member for supporting the head in front of the bracket, and means for moving said member in said chamber.

1,688,288. PUDDING CLOTH AND THE LIKE. LOUIS GERALD ROGERS, Croydon, England. Filed Oct. 11, 1926, Serial No. 141,015, and in Great Britain Oct. 12, 1925. 4 Claims. (Cl. 53—2.)



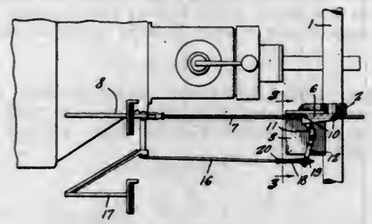
1. A pudding cloth made from a flat piece of fabric, a peripheral binding thereto, a tape within said binding whereby the cloth can be tied to a basin, means whereby said tape is prevented from accidentally becoming withdrawn from the binding, a short strap adjacent the center of the cloth and a double row of substantially circular stitchings attaching the strap near its ends to the cloth and reinforcing the cloth at the center whereby after the cloth is attached upon a basin a pull upon the strap tends to tighten the cloth upon the basin.

1,688,289. FOLDING IRONING BOARD. STEPHEN F. SLAWSKI, Culver City, Calif. Filed Oct. 26, 1926. Serial No. 144,282. 1 Claim. (Cl. 68—10.)



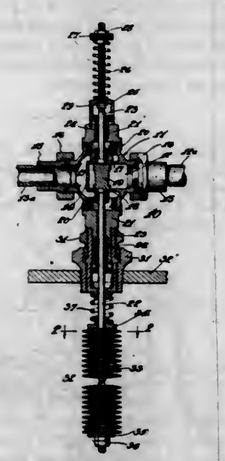
A folding ironing table comprising a board having a transverse plate with which the board is pivotally connected at its forward end for angular adjustment in a horizontal plane, a rocker bar connected with said plate and provided with trunnions at its extremities, slides with which said trunnions are engaged, guide members having grooves traversed by the slides, and a folding supporting member connected with the plate at a point remote from the rocker bar and having pivotal mountings in the guide members.

1,688,290. BRAKE LOCK. CHARLES A. SMITH and WALTER G. BOWERS, Barberton, Ohio. Filed Aug. 8, 1927. Serial No. 211,527. 2 Claims. (Cl. 74—83.)



1. In a motor vehicle, a wedge member attached to the brake rod which is attached to the brake pedal, a supporting member on which the wedge member slides, a cam member for forcing the wedge member against a part of the supporting member and means for operating the cam member by the depression of the clutch pedal.

1,688,291. TEMPERATURE CONTROLLER. ENOCH THEANDER, Brooklyn, N. Y. Filed Dec. 5, 1927. Serial No. 237,903. 6 Claims. (Cl. 236—101.)

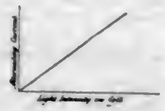


1. In a thermostatic valve having a slidable valve element normally held in an open position, a slidable actuating rod connected to said valve element, spaced stops mounted on said actuating rod, and a thermal unit mounted on said rod and interposed between said stops, said thermal unit including a plurality of separate thermal elements being restricted from lineal movement.

1,688,292. SYSTEM OF MODULATING CARRIER CURRENTS. ALLAN WEAVER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 7, 1925. Serial No. 13,925. 12 Claims. (Cl. 178—6.)

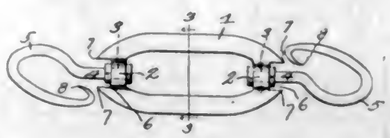
1. In combination, a photoelectric cell, means to apply a carrier current electromotive force to its terminals, means

to apply to the cell a light varying in a determinate manner whereby the current through the cell is a corresponding



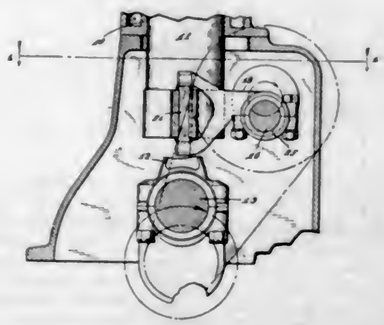
modulated carrier current, an output circuit, and adjustable means in said output circuit to make the magnitude of the output vary directly or inversely as the light as desired.

1,688,293. DOUBLE-SWIVEL HOOK. CASSIUS M. C. BARRETT, Coupeville, Wash. Filed Sept. 9, 1925, Serial No. 55,316. Renewed Aug. 14, 1928. 1 Claim. (Cl. 59—95.)



A double swivelled hook for rigging, said hook comprising a body member having an opening therethrough thereby allowing a line to be attached thereto, hooks at opposite ends of the body member, shanks carried by said hooks in axial alinement and rotatably mounted in bearings in the ends of the body member, arms carried by the ends of the body member at opposite sides of the shanks, thereby forming recesses, collars on said shanks within the recesses, said hooks terminating in inwardly extending hooks disposed adjacent the outer ends of the arms when the hooks are in the plane of the body member.

1,688,294. INTERNAL-COMBUSTION ENGINE. JULES HALTENBERGER, Indianapolis, Ind., assignor to Jules Haltenberger, Incorporated, Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 29, 1927. Serial No. 187,428. 13 Claims. (Cl. 123—81.)



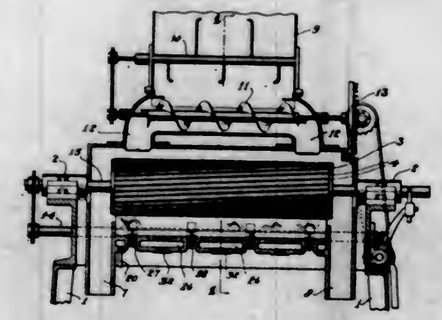
1. In an internal combustion engine, the combination of a cylinder, a piston reciprocable therein, a sleeve-valve surrounding said piston, a rotatable valve-operating shaft, an eccentric on said shaft, a boss on said sleeve, said boss being provided with a hole parallel to the sleeve axis, and a sleeve connecting rod for connecting said sleeve and said eccentric said connecting rod including a pin rigid with the remainder of the rod and receivable in the hole in said boss, said connecting rod and boss having co-operating surfaces for transmitting thrusts axially of said sleeve, such thrust surfaces on said connecting rod being located within the axial limits of said boss.

1,688,295. CYSTOSCOPE. THORVALD MALJGREN, Rochester, N. Y. Filed Dec. 16, 1927. Serial No. 240,552. 4 Claims. (Cl. 128—7.)



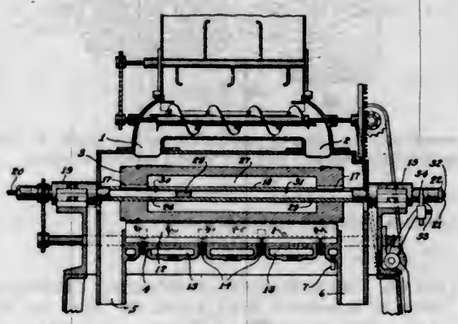
1. In a surgical instrument, a tube adapted for insertion within a body orifice, an instrument adapted for insertion within said tube, a plug portion on said instrument, and a portion on said tube having a bore of a size to fit said plug portion, one of said portions having threads exteriorly thereof and the other of said portions having a clamping nut associated therewith for engagement with said threads whereby said instrument is secured within said tube.

1,688,296. ROTARY CUTTER. LOUIS E. PARENT, Claremont, N. H., assignor to Claremont Waste Manufacturing Company, a Corporation of New Hampshire. Filed Apr. 29, 1927. Serial No. 187,570. 37 Claims. (Cl. 83—6.)



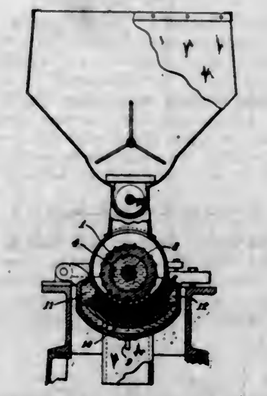
1. The combination with a flock cutter having a knife carrying concave bed, of water circulating means for the latter maintaining a cooling flow close to the bases of the knives therein.

1,688,297. ROTARY CUTTER. LOUIS E. PARENT, Claremont, N. H., assignor to Claremont Waste Manufacturing Company, a Corporation of New Hampshire. Filed May 3, 1927. Serial No. 188,458. 12 Claims. (Cl. 83—6.)



1. In a rotary cutter, a cutter carrying cylinder, a cooperating concave bed, socket means receiving said bed, and means for maintaining a circulation of cooling water through both said cylinder and said socket means.

1,688,298. ROTARY CUTTER. LOUIS E. PARENT, Claremont, N. H., assignor to Claremont Waste Manufacturing Company, a Corporation of New Hampshire. Filed May 3, 1927. Serial No. 188,459. 15 Claims. (Cl. 83—6.)



1. In a rotary cutter comprising a cylinder and bed, means for maintaining a flow of cooling fluid longitudinally of the cylinder, and means for circulating cooling fluid through the bed having the point of maximum cooling of the bed between the ends of the cylinder and cooling streams flowing from said point to opposite ends of the bed.

1,688,299. VALVE. LUTTRELL H. STUART, Chicago, Ill. Filed Aug. 28, 1926. Serial No. 132,244. 7 Claims. (Cl. 123—188.)

1. A valve for engines comprising a casing having intake and exhaust ports, a slide valve having intake and exhaust ports arranged side by side and adapted for registration with said first named ports, one of the ports in said casing being in advance of the other, and a supplemental valve controlling the flow of fuel through said intake ports.



1,688,300. PROCESS OF MAKING HOLLOW ARTICLES. GEORGE DONALD WELTY, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 2, 1924. Serial No. 729,683½. 12 Claims. (Cl. 148—21.)

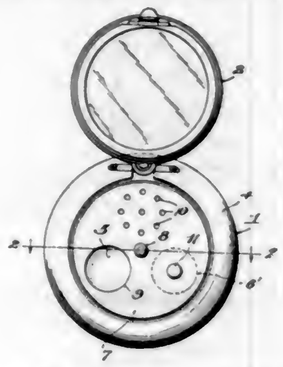


1. The method of making an annular metallic article which comprises subjecting the inner and outer surfaces of a circumferentially continuous annular metallic article in a mechanically unrestrained condition respectively to heat treatments differing in degree thereby setting up internal compression strains near one surface in excess of similar strains near the other surface, and then slitting the article in a lengthwise direction for at least a part of its length.

1,688,301. VANITY CASE. FRANK M. WOJCIECHOWSKI, North Attleboro, Mass., assignor to Marathon Company, Attleboro, Mass. Filed Dec. 29, 1927. Serial No. 243,241. 4 Claims. (Cl. 132—83.)

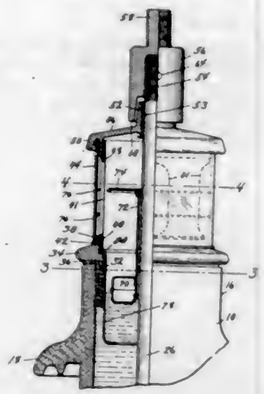
1. In a vanity case, a body having a dished bottom and an inwardly curled rim, a cover hinged to the body and engageable within the rim, a disk of less diameter than that of the body having a central opening and a flanged marginal edge which latter seats on and is secured to the dished botton of the body to form a powder compartment in conjunction therewith, and which disk underlies said rim

to form a puff holding compartment in conjunction with the rim, and a rotary control disk pivoted to the first named disk, and having an opening adapted to register with the



opening of the first named disk and further having a forminated area also adapted to register with the opening of the first named disk.

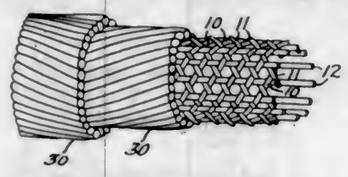
1,688,302. OIL-FILLED INSULATING BUSHING. GEORGE A. BURNHAM, Saugus, Mass., assignor to Conduit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts. Filed July 23, 1926. Serial No. 124,535. 9 Claims. (Cl. 116—118.)



5. An insulating bushing comprising an outer open top porcelain tube adapted to contain a body of oil to some level beneath the top thereof, a metal cylinder having cutaway portions connected with and disposed on the open top of said porcelain tube, a glass cylinder concentric with said metal cylinder, an axial stud disposed within said porcelain tube, an annular float surrounding said stud and adapted to be buoyed up by the oil within said tube, and fluid-level indicating-means governed by said float arranged for vertical movement on said stud and having a component which is visible within said metal cylinder.

1,688,303. FLEXIBLE ELECTRIC CONDUCTOR. HAMILTON C. CARPENTER, Elizabeth, N. J., assignor to American Copper Products Corporation, New York, N. Y., a Corporation of Delaware. Filed July 25, 1925, Serial No. 46,099. Renewed Aug. 8, 1928. 3 Claims. (Cl. 173—13.)

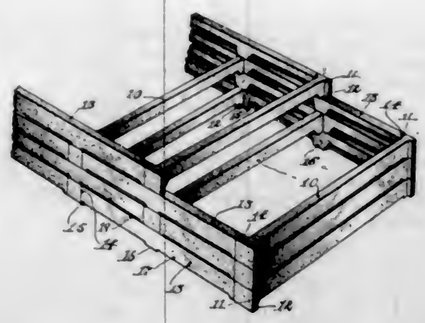
1. A hollow core cable comprising a plurality of wires that progress around the hollow core at an angle to the longitudinal axis, a plurality of wires that progress around the first mentioned wires and at a similar angle but in opposite direction thereto, a plurality of longitudinal wires



woven into the cable by passing alternately under the first mentioned wires and over the second mentioned wires.

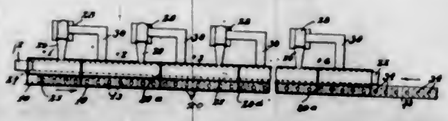
1,688,304. [WITHDRAWN.]

1,688,305. REENFORCED CONCRETE CRIBBING. JOHN M. FITZGERALD, River Forest, Ill. Filed Oct. 30, 1925. Serial No. 65,729. 4 Claims. (Cl. 61—47.)



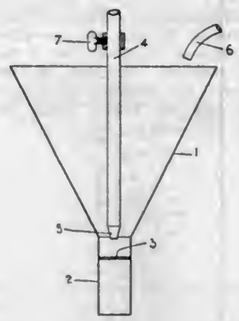
3. A concrete cribbing unit comprising an elongated substantially rectangular body portion having depending body spacer portions, and a relatively narrow curtain portion of less depth than said spacer portions extending longitudinally of said body portion between said spacer portions.

1,688,306. METHOD OF DRYING BRICK AND TUNNEL THEREFOR. CLAUD E. FULLER, New York, N. Y., assignor to New York Brick Handling Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 23, 1927. Serial No. 186,108. 2 Claims. (Cl. 34—46.)



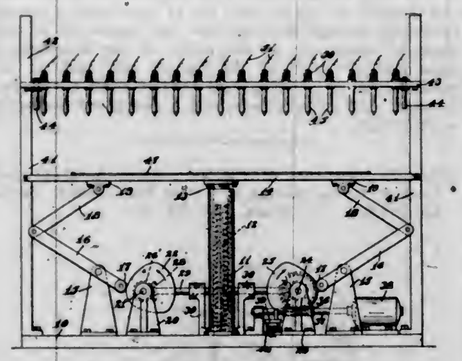
1. An improved dryer for brick and the like comprising a tunnel open top and bottom, an air heating chamber arranged parallel thereto, means for heating said chamber, a plurality of blowers spaced apart from the tunnel, and connected thereto, said blowers being so arranged with respect to said tunnel and said heating chamber as to cause a downward movement of heated air through a plurality of points in a tunnel simultaneously and means for reheating the air prior to each downward movement.

1,688,307. APPARATUS FOR REMOVING LARGE-SIZED PARTICLES AND AGGREGATES FROM CERTAIN FINELY-DIVIDED POWDERS AND THE LIKE. GEORGE GALLIE and BENJAMIN DAWSON PORRITT, London, England, assignors to The Research Association of British Rubber and Tyre Manufacturers, Croydon, England. Filed Mar. 20, 1926, Serial No. 96,330, and in Great Britain Oct. 7, 1925. 4 Claims. (Cl. 209—273.)



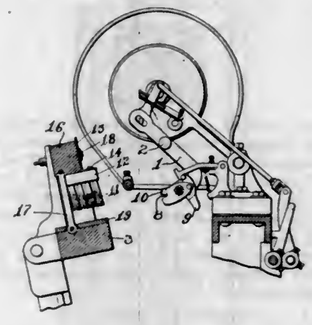
1. A separator for powdered material, comprising a funnel for the material, an outlet pipe depending vertically from the bottom of the funnel, a sieve for the material secured in the outlet pipe between its ends, and a jet pipe for fluid arranged in the funnel with its outlet end at the entrance to the outlet pipe, the orifice of the jet pipe being proportioned to deliver a relatively bulky and forcible jet upon the material being treated and operating to agitate the material and fluid in the upper part of the outlet pipe and to force the material through the sieve.

1,688,308. ELECTRICAL AREA-MEASURING DEVICE. DANA E. HARDING, Melrose, Mass., assignor to Harding Engineering Company, East Boston, Mass., a Corporation of Massachusetts. Filed Mar. 14, 1927. Serial No. 175,223. 2 Claims. (Cl. 33—123.)



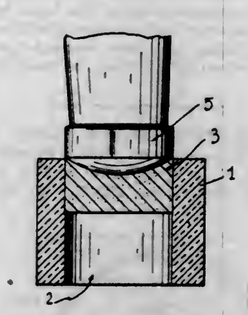
1. An improved electrical area measuring instrument comprising a plurality of parallelly arranged yieldingly mounted conducting pins, an electrical indicating instrument, electrical connections extending from each of said pins to said instrument, a vertically movable platform electrically connected with said instrument, said vertically movable pins operating individually to influence the indicating instrument only when in engagement with the vertically movable platform.

1,688,309. WEFT-REPLENISHING LOOM. SIMEON S. JACKSON, Hyde Park, Mass., assignor to The Stafford Company, Boston, Mass., a Corporation of Massachusetts. Filed July 31, 1925. Serial No. 47,259. 3 Claims. (Cl. 139—260.)



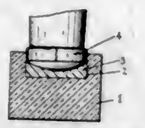
1. In a loom in which replenishment is effected prior to complete exhaustion of the weft-supply within the working shuttle, the combination with the lay, and a shuttle-feeler having a weft-parter mounted upon it, of a weft-holder mounted above the path of the shuttle upon the lay between the selvage-warps and the shuttle-box at the side of the loom at which replenishment is effected and having bristles extending downward into the said path, in position with relation to the path of the shuttle to catch the weft-thread between the selvage of the cloth being woven and the shuttle-box mouth, to prevent the weft-thread from kinking in the regular working of the loom and to hold it in position for engagement by the said weft-parter.

1,688,310. DEVICE FOR CHALKING CUE TIPS. JOHN O. MILLER, Chicago, Ill., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill., a Corporation of Delaware. Filed July 9, 1927. Serial No. 204,593. 4 Claims. (Cl. 273—18.)



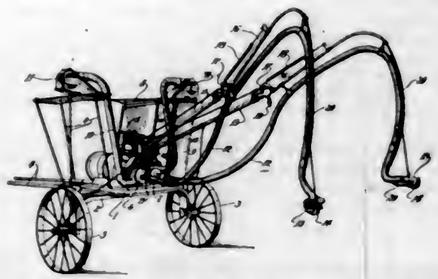
1. A cue chalking device comprising a holder of relatively soft resilient material having a cylindrical bore of substantially the diameter of a cue tip, said bore being open at each end, a piece of chalk of substantially the diameter of a cue tip snugly fitted in said bore, longitudinal movement of said chalk in the bore being resisted by the close fit in the resilient material of said holder, one end of said chalk terminating substantially at one end of said bore, the other end of the body of chalk being exposed through the other end of said bore, whereby the chalk may be fed through said holder by pressure against one end.

1,688,311. DEVICE FOR CHALKING CUE TIPS. JOHN O. MILLER, Chicago, Ill., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill., a Corporation of Delaware. Filed July 9, 1927. Serial No. 204,594. 3 Claims. (Cl. 273—18.)



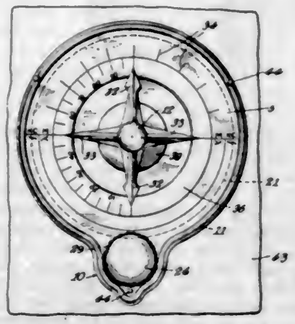
1. A cue chalking device comprising a holder of relatively soft resilient material having a cylindrical chamber of substantially the diameter of a cue tip and adapted to receive the latter snugly, a piece of chalk having substantially the diameter of a cue tip snugly fitted in said chamber, the chamber having a transversely directed wall formed to support the piece of chalk against movement in one direction, the chalk being held by the close fit in the resilient material against movement through the open end of the chamber.

1,688,312. COTTON-HARVESTING MACHINE. OSCAR ONSRUD, Chicago, Ill., assignor to L. L. Valentine, Chicago, Ill. Filed Sept. 13, 1926. Serial No. 135,058. 3 Claims. (Cl. 56—13.)



1. In a cotton harvesting machine, a long flexible suction conduit fixed at one end and having an air-driven picker head at the other end, a hollow swinging boom supporting the conduit to permit the picker head to be moved over a considerable area, the boom being hollow to constitute a storage and pressure-equalizing reservoir, means for introducing air under pressure into the boom, and means for delivering air from the boom to the picker head.

1,688,313. ADJUSTING DEVICE. LOUIS G. PACENT, Winfield, N. Y., assignor to Pacent Electric Company, New York, N. Y., a Corporation of New York. Filed May 9, 1925. Serial No. 29,173. 15 Claims. (Cl. 74—7.)



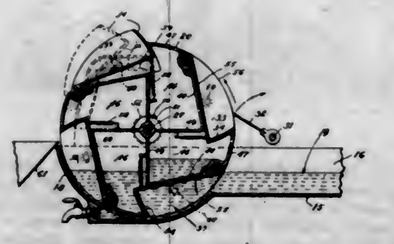
1. An adjusting device comprising front and back plates having flanged rims telescopically engaged to form a thin flat case, a collar rotatably held to said plates and provided with means for securing same to the shaft of an instrument to be adjusted, indicating means on said collar traversing the front plate of the case, a friction disc carried by the collar within the case and an operating member journaled in the front plate of the case and having a friction wheel within the case engaged with the disc of the collar.

1,688,314. DISPENSING APPARATUS. SHERWOOD HINDS, Richmond Heights, Mo., assignor to St. Louis Pump & Equipment Company, St. Louis, Mo., a Corporation of Missouri. Original application filed Jan. 28, 1921, Serial No. 440,796. Divided and this application filed May 13, 1922. Serial No. 560,576. 1 Claim. (Cl. 221—103.)



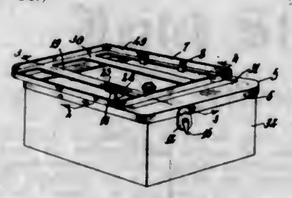
In apparatus of the class described, in combination, a housing, a rack provided with a lug, means for moving the rack, a member mounted on the housing and adapted to be sealed thereon and having an apron protecting an aperture therein against weather, a shaft mounted on said member and carrying one or more separately adjustable intermediate stops adapted selectively to engage the lug of said rack, an adjustable stop mounted on the member and adapted to engage said lug of said rack, a handle projecting through said aperture and connected to said shaft to rotate one or the other of the intermediate stops into the path of the lug on said rack as desired, means for securing said housing upon a cylinder, a piston within the cylinder and a piston rod connected to said rack.

1,688,315. FRYING MACHINE. EMIL A. DENE and JOHN E. TITUS, Chicago, Ill. Filed Dec. 6, 1924. Serial No. 754,322. 15 Claims. (Cl. 53—7.)



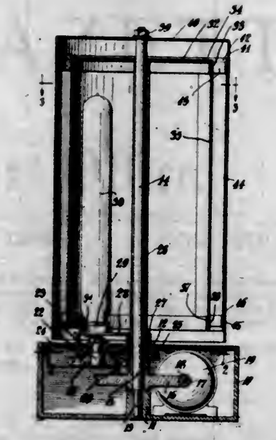
1. In a frying machine, a non-endless channel for hot-oil or cooking-fats, a rotating vertical wheel having marginal pockets adapted to dip into the oil at the lower part of the wheel to lift the oil out of the channel and adapted to empty the oil when rotated to the upper portions of the wheel, and said wheel having means for removing cooked material from the oil, and means for returning the oil emptied from the wheel back into the channel.

1,688,316. SLIDING AUTOMOBILE SEAT. HARRY R. DE VEAU, Stamford, Conn., assignor to Deray Manufacturing Corporation, Dover, Del. Filed Oct. 3, 1925, Serial No. 60,161. Renewed July 31, 1928. 4 Claims. (Cl. 155—14.)



1. In a device of the character described, a supporting frame adapted to be secured to the seat box of an automobile, an upper frame slidably mounted thereon, a rotatable adjusting screw mounted on the said supporting frame, a threaded member engaging the said adjusting screw and secured to the upper frame by means of binding screws which fit within perforations in the said frame and engage threaded holes of the said member, the aforesaid perforations being connected in longitudinal alignment by slots in the frame structure, and the said binding screws having portions of reduced diameter adapted to pass through the said slots, and also having capped extremities which prevent them from being completely withdrawn from the structure, means for the attachment of a cushion, or the like to the said upper frame, and means to rotate the aforesaid adjusting screw.

1,688,317. ADVERTISING DEVICE. GUSTAV MARSCHALL, Far Rockaway, N. Y. Filed Aug. 5, 1927. Serial No. 210,782. 1 Claim. (Cl. 40—33.)



An advertising device comprising a base having a motor therein, an upright shaft extending above said base driven by said motor, a sleeve encircling said shaft, means actuated by said motor to rotate said sleeve intermittently, a cylinder spaced concentrically and supported by said sleeve, said cylinder having a plurality of equal upright divisions, each division being translucent and of a different color, a lighting means in said cylinder, a second cylinder spaced concentrically from the first cylinder, said second cylinder having an opaque wall in which transparent figural designs are formed, and means on said shaft to rotate said second cylinder.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 375—No. 4. TUESDAY, OCTOBER 23, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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T. M. Renewals	88		
Labels	47—No.	34,807 to No.	34,853, inclusive.
Prints	29—No.	11,272 to No.	11,300, inclusive.
Reissues	12—No.	17,106 to No.	17,117, inclusive.
Designs	73—No.	76,658 to No.	76,730, inclusive.
Patents	871—No.	1,688,318 to No.	1,689,188, inclusive.
Total	1,300		

Adjudicated Patents.

(C. C. A. Ill.) The Kohler patent, No. 1,124,673, for feeding paper to printing presses, claims 3, 4, 5, 6, 9, 10, 11, 12, and 24 *Held* valid and infringed. *Cline Electric Mfg. Co. v. Kohler*, 27 F. (2d) 638.

(C. C. A. N. Y.) The Claude patent, No. 1,125,476, for system of illumination by luminous tubes, claim 2 *Held* valid and infringed. *Claude Neon Lights v. H. Mackett & Son*, 27 F. (2d) 702.

(C. C. A. N. Y.) The McMichael patent, No. 1,127,660, for covering method and apparatus for transporting concrete through pipe by pneumatic pressure, claims 2, 4, 6, 17, 21, 22, 28, 34, and 35 *Held* valid and infringed. *Concrete Mixing & Conveying Co. v. Powers-Kennedy Contracting Corporation*, 27 F. (2d) 668.

(C. C. A. N. Y.) The Claude patent, No. 1,191,495, for method of separating neon from gases with which mixed, *Held* invalid. *Claude Neon Lights v. H. Mackett & Son*, 27 F. (2d) 702.

(C. C. A. N. Y.) The Osteen patent, No. 1,195,976, for improvements in cameras, *Held* invalid. *Osteen v. Ansco Photoproducts*, 27 F. (2d) 688.

(D. C. Calif.) The Hopkins patent, No. 1,271,527, for sound-regulating machine, claims 29 and 30 *Held* invalid. *Lektophone Corporation v. Rola Co.*, 27 F. (2d) 758.

(D. C. Calif.) The Hopkins patent, No. 1,271,529, for tympanum of acoustic device, *Held* not infringed. *Id.*

(C. C. A. N. Y.) The Hill patent, No. 1,310,698, for plaited paper cup having curled rim, *Held* valid and infringed. *Tulip Cup Corporation v. Ideal Cup Corporation*, 27 F. (2d) 717.

(C. C. A. Mass.) The West patent, No. 1,343,600, for improvement in printer's table to determine alinement of proof sheets, *Held* valid and infringed. *West v. Premier Register Table Co.*, 27 F. (2d) 653.

(C. C. A. Ill.) The Wahl patent, No. 1,487,189, for hair clipper, claims 2, 5, and 23 *Held* valid. *N. E. Norstrom Electric Mfg. Co. v. Wahl*, 27 F. (2d) 685.

(C. C. A. N. Y.) The Koehler patent, No. 1,509,674, for process and apparatus for consuming flue impurities, *Held* valid. *Akme Flue v. Aluminite Flexible Flue Cap. Co.*, 27 F. (2d) 736.

(C. C. A. N. Y.) The Richardson and Coggeshall patent, No. 1,530,200, for conduits to contain electrical wiring in office buildings, claims 3, 7, and 20 *Held* not infringed. *Fibre Conduit Co. v. Bankameric Corporation*, 27 F. (2d) 708.

(C. C. A. N. J.) The Humphreys and McCarthy patent, No. 1,630,085, for indented "molded inlaid linoleum," *Held* valid and infringed. *Armstrong Cork Co. v. W. & J. Sloane Mfg. Co.*, 27 F. (2d) 644.

Patent Appeals in the Court of Appeals of the District of Columbia—November Call.

U. S. Patent Office, *Washington, Oct. 13, 1928.*

This office is to-day in receipt of a letter from the clerk of the Court of Appeals of the District of Columbia reading as follows (see notice in Gazette of October 16, 1928, 375 O. G. 475):

The court has instructed me to advise you that there will be 20 cases on the patent appeals docket assigned for hearing on the second Monday of November next.

The notices required by Rule XXII of the court of appeals will be sent to the parties in due course.

THOMAS E. ROBERTSON,
Commissioner.

Condition of Applications Under Examination at Close of Business October 12, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 112,740; Trade-Mark Division, 1,796. Oldest new case, Dec. 14, 1927; oldest amended, Dec. 19, 1927. The dates given are 1928 except where † indicates 1927.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Feb. 9	Feb. 15	1,565
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Feb. 17	Feb. 28,	1,679
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Feb. 4	Feb. 11	1,441
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	†Dec. 21	†Dec. 27	1,004
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Jan. 3	Jan. 3	1,559
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Jan. 12	Jan. 20	2,582
106	7. JARBOE, C. G., Optics; Photography	Jan. 3	Jan. 4	1,979
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Feb. 9	Mar. 17	1,652
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 20	Mar. 15	1,812
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Feb. 16	Feb. 15	1,816
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Mar. 23	Mar. 29	926
380	12. PIERCE, P. P., Machine Elements	Feb. 10	Feb. 1	2,008
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Feb. 8	Feb. 3	1,529
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Jan. 14	Jan. 16	1,208
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 13	Jan. 13	2,608
242*	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 27	Feb. 13	1,204
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Jan. 4	Feb. 10	1,491
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Jan. 3	Jan. 6	1,682
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Jan. 26	Feb. 3	1,931
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Apr. 9	Apr. 14	1,436
212	21. THURBUR, W. L., Textiles; Cloth Finishing	Jan. 12	Feb. 7	1,085
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	†Dec. 27	†Dec. 29	1,660
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	†Dec. 22	†Dec. 31	1,130
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Jan. 10	Jan. 17	1,573
302*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 13	Apr. 2	1,698
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Jan. 25	Feb. 1	1,196
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 21	Mar. 30	1,489
225	28. BENSON, A. R., Internal-Combustion Engines	Feb. 1	Feb. 1	1,921
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Feb. 11	Feb. 2	1,168
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Jan. 17	Apr. 2	1,478
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Jan. 27	Jan. 28	2,128
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Jan. 7	Jan. 4	2,182
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Apr. 27	Apr. 30	2,041
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	†Dec. 22	Jan. 9	1,416
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Apr. 9	Apr. 9	1,653
106	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Mar. 3	Feb. 23	2,083
224*	37. WEAVER, M. R., Electricity, Circuit Makers and Breakers	†Dec. 14	Jan. 26	2,298
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Mar. 15	Mar. 15	1,892
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	†Dec. 22	†Dec. 19	1,924
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Jan. 18	Mar. 1	2,750
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Feb. 9	Feb. 21	1,464
223*	42. CUTTING, H. O., Electric Signaling	Jan. 5	Feb. 11	1,607
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Jan. 30	Mar. 7	2,214
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Jan. 23	Feb. 3	2,008
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Jan. 4	Jan. 10	2,487
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Jan. 18	Jan. 18	1,807
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Feb. 4	Feb. 23	2,037
212*	48. ROEPKE, O. B., Electricity, General Applications	Feb. 2	Feb. 3	1,585
290	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Jan. 5	Feb. 3	1,548
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Feb. 6	Feb. 6	2,626
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Jan. 19	Jan. 18	2,311
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Feb. 13	Feb. 15	2,183
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Mar. 7	Mar. 2	1,799
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Jan. 21	Jan. 27	2,399
102	55. BOWEN, S. T., {Bread, Pastry, and Confection Making; Cutlery	Jan. 18	Jan. 16	855
309	{Designs	Sept. 7	Sept. 22	595
257*	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	†Dec. 20	†Dec. 21	2,536
270*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Jan. 24	Jan. 23	1,199
315	58. DOWELL, E. F., Abrading; Typewriting	Jan. 9	Jan. 3	1,444
213*	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	†Dec. 24	†Dec. 24	2,610
269	60. GLASS, R. L., Electricity; Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	†Dec. 22	†Dec. 28	1,695
245*	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Jan. 6	Jan. 3	2,238
	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	†Dec. 28	Jan. 23	2,837
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	Sept. 14	Oct. 1	1,645
	{Labels and Prints	Sept. 21	Oct. 3	151

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

IN RE NYMAN.

No. 2,054. Decided May 7, 1928.

PATENTABILITY—VARIABLE CONDENSERS.

A variable condenser differing from those of the prior art in that the scale is arranged in accordance to frequencies instead of wave lengths *Held* unpatentable since "the relation of wave length and frequency of oscillations is so elemental in the art that the adaptation of a scale from one method of designation to the other is merely a matter of calculation, and does not rise to the dignity of invention."

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Wm. F. Nickel and *Mr. Samuel Ostrolenk* for Nyman.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.:*

Appellant's application for a patent contained six claims, of which claims 1, 4, 5, and 6, have been refused by concurring decisions of the tribunals of the Patent Office.

The invention relates to variable condensers for use in radio receiving sets. Claims 1 and 4 are illustrative, and read as follows, to wit;

1. An electric condenser having separated electrically conductive elements, said elements being capable of relative movements, each element having a curved side and a substantially straight side, the curved side being such and the elements being so mounted that the capacity of the condenser can be altered to produce a change of frequency which is always directly proportional to the degree of such movement.

4. An electric condenser having separated electrically conductive elements capable of relative linear movement, one or more of said elements having one or more sides so curved and the elements being so mounted that the capacity of the condenser can be altered to produce a corresponding change in frequency which is directly proportional to the degree of such movement.

The references relied upon are Lewis, 1,478,342, December 18, 1923; Sass, 1,514,733, November 11, 1924; and Principles of Radio Communication by Morecroft, pp. 794–795. To these may be added the references relied upon in the associated and similar appeal No. 2,055, as follows to wit; Marriott, 978,605, December 13, 1910; Donle, 1,240,958, September 25, 1917; Cherpeck, 1,520,329; December 23, 1924; Page (French) 527,974, November 4, 1921; Boyer (French) 564,836, January 12, 1924; and Isenthal (British) 153,858, November 18, 1920.

The references unmistakably disclose the construction herein set out by the appellant, to wit, an electrical condenser having a plurality of conductive plates insulated from each other, mounted so as to be movable edgewise and also in a direction normal to their surfaces, and the plates shaped so as to be suitable for adjusting the capacity of the condenser.

Appellant, however, contends that the scale in his condenser is arranged according to frequency instead of wave length, and in a manner which discloses a patentable improvement over the prior art. This is said to be accomplished by a different curvature of the movable plates, so calculated that equal changes in frequency will be obtained by equal adjustments of the dial, thereby eliminating the crowding upon the dial which is said to be characteristic of the straight line wave length condenser, and enabling a "listener in," with uniform ease and accuracy, to "tune in" broadcasting stations over the entire broadcasting range.

It is noted by the Commissioner that it has become the custom to classify broadcasting stations according to frequency or oscillations per unit of time, instead of wave length in meters as formerly; that this has necessitated a recalibration of condensers and a redesigning and remarking of them accordingly. And the Commissioner finds that the applicant discloses no more than such mathematical calculations and reshaping of the condenser plates as to obtain the variation of capacity which is required in connection with variations in frequency, and which permits of a uniform marking on the dial or scale. The Commissioner adds,

It being old to shape the overlapping plates of a condenser so the movements of the movable member equal distances, which are indicated by equally spaced markings throughout the scale, will vary the capacity in accordance with uniform variations in wave length, it is deemed clear there was involved no inventive concept to shape the overlapping parts of the condenser plates according to a mathematical calculation based upon the unit of frequency, rather than wave length, so these plate movements of uniform distances, which are indicated, as before, at equally spaced markings on the scale, will vary the capacity according to uniform variations in frequency. Except for this change in the shape of the plates to vary the capacity according to a new basic unit, the structure of the condenser does not differ from that disclosed in the references.

In our opinion the Commissioner's conclusion is correct. The relation of wave length and frequency of oscillations is so elemental in the art that the adaptation of a scale from one method of designation to the other is merely a matter of calculation, and does not rise to the dignity of invention.

The decision of the Commissioner of Patents is affirmed.

Court of Appeals of the District of Columbia.

IN RE NYMAN.

No. 2,055. Decided May 7, 1928.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.:*

The application for a patent, herein involved, relates to variable condensers for use in radio receiving sets. The controlling questions in the case are substantially identical with those decided in Appeal No. 2,054, 375 O. G., 719, relating to a similar application by the same party. Consistently with the conclusions reached by the court in that case, the decision of the Commissioner of Patents appealed from in this case is affirmed.

Court of Appeals of the District of Columbia.

IN RE BERRY.

No. 2,966. Decided June 4, 1928.

PATENTABILITY—INVENTION—SUBSTITUTION OF MATERIAL.

A joint for a rotary steam drier, including therein a member made in whole or in part of graphite, *Held* unpatentable where the prior art showed a similar joint having a similar member made of a material requiring lubrication, it being old in the art to form packing rings of a material containing graphite which would act as a lubricant.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. A. M. Belfield, Mr. J. H. Milans, Mr. C. T. Milans, and *Mr. Samuel E. Darby* for Berry.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.*:

This appeal is from the decision of the Commissioner of Patents denying patentability to claims 1 to 5 and 13 to 15 inclusive. Claims 1 and 5 illustrate the alleged invention of applicant as follows:

1. The combination with a rotary steam drier and an inlet therefor, of a joint between the same comprising a joint device composed in whole or in part of carbon or graphite.

5. The combination with a rotary steam drier and an inlet therefor of a joint device for said members made in whole or in part of graphite, and spring means tending to exert pressure to produce and maintain a tight joint, said spring means being at the end of the inlet.

The references relied upon are: Smith, 1,420,454, June 20, 1922; Emmett, 811,833, February 6, 1906; Getts, 784,785, March 14, 1905; Copeland, 1,329,348, January 1920; Dodge 730,349, June 9, 1903; McLean, 1,082,890, December 30, 1913.

The device in issue relates to a steam joint in a rotary drier. The drying cylinder rotates against the fixed part of the inlet and steam is supplied by a pipe while the exhaust steam and condensate escapes by an outlet pipe. A washer is placed between the rotating and fixed parts. This washer is described as composed of "carbon or graphite, or some composition of one or the other, or some material impregnated with one or the other." It is also stated that the ring possesses lubricating qualities.

The patent to Smith discloses the same construction of rotary cylinder and fixed inlet with a packing ring between the moving parts. The packing ring, however, in Smith, is such as to require outside lubrication. Smith's patent discloses means for supplying oil to the bearings. Thus it appears that the only difference between Smith and applicant is the material employed for the packing ring.

We are of opinion that the alleged invention of applicant is fully and completely anticipated by the prior art. The patents to Emmett, Dodge, and Copeland, show a packing ring of the same material used by applicant; and in the Emmett specification it is stated that—

> it is found that packing-rings of carbon, usually containing a certain amount of graphite to act as a lubricant, are durable and efficient if the pressure between the surfaces is not too great.

The decision of the Commissioner is affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

882,517, Dwight & Lloyd, Process of treating ores; 1,020,345, same, Metalliferous ore product; Re. 13,758, F. D. Weeks, Calcining, desulphurising, agglomerating, and sintering ores; 1,102,982, A. S. Dwight, Apparatus for roasting and sintering ores; 1,254,316, 1,433,351, same, Process of treating ores; 1,433,349, same, Process of and apparatus for treating ores to sinter them; 1,433,350, same, Ore desulphurizing and sintering apparatus, C. C. A., 2d Cir., Doc. 9958, *Dwight & Lloyd Sintering Co.* v. *J. E. Greenawalt.* Decree affirmed (notice dated Aug. 20, 1928).

1,009,502, 1,642,675, B. Goldman, Skylight, filed Aug. 18, 1928, D. C., E. D. Mich., S. Div., Doc. 2823, *Superior Skylight Co.* v. *Colwood Co.*

1,020,345. (See 882,517.)

1,020,593. (See 1,038,475.)

1,038,475, L. H. Backeland, Process of making insolnble bodies derived from phenol alcohols; 1,020,593, J. W. Aylsworth, Phenolic condensation product and method of preparing same; 1,098,608, same, Enamel lacquer or varnish, filed (notice dated Aug. 16, 1928), D. C., S. D. N. Y., *Bakelite Corp.* v. *General Plastics, Inc.*

1,079,795, F. N. Naysmith, Chiropractic table; 1,269,354, 1,435,037, 1,399,419, 1,448,477, W. G. Williams, same, D. C., S. D. Iowa (Davenport), Doc. E 4098, *Williams Mfg. Co.* v. *Rival Machine Co. et al.* Dismissed Aug. 9, 1928.

1,082,682, R. Douglas, Food product; 1,235,666, same, Jelly-making product and process for producing same; 1,304,166, same, Food product and its method of manufacture, C. C. A., 2d Cir., Doc. 9832, *Douglas Pectin Corp.* v. *Armour & Co.* Reversed as to 1,082,682 and 1,304,166, affirmed as to 1,235,666 (notice dated Aug. 20, 1928).

1,098,608. (See 1,038,475.)

1,102,982. (See 882,517.)

1,125,476, G. Claude, System of illuminating by luminescent tubes, D. C. Wash. (Seattle), Doc. 646, *Electrical Products Corp.* v. *H. Christensen et al.* (*Chris Sign Co.*). Injunction Aug. 22, 1928.

1,132,273, W. Jay, Fuel-supply system for explosive engines; 1,635,692, F. G. Schweisthal, Valve snap action, filed Aug. 9, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–19–M, *Stewart-Warner Speedometer Corp. et al.* v. *F. B. Redman et al.* (*Auto Parts Exchange Co.*). Doc. O–20–J, *Stewart-Warner Speedometer Corp. et al.* v. *The Armature Exchange, Inc.*

1,138,616, Barsness & Barsness, Cattle stanchions; 1,142,135, H. J. Barsness, same, filed Aug. 14, 1928, D. C., W. D. Wis., Doc. E 1321, *Barsness Mfg. Co. et al.* v. *Berg Supply Co. et al.*

1,142,135. (See 1,138,616.)

1,175,686, Binder & Couch, Mangle; 1,584,458, F. J. Leidecker, Delivery table for flat-work ironers; 1,631,847, J. H. Taylor, Flat-work ironer, D. C., S. D. N. Y., Doc. E 44/345, *The American Laundry Machine Co.* v. *Amalgamated Laundries, Inc., et al.* Patents held valid and infringed Aug. 25, 1928.

1,223,223, 1,287,799, 1,402,120, C. H. Tomlinson, Car, air, and electric coupler, filed July 23, 1928, D. C., N. D. Ill., E. Div., Doc. 8489, *The Tomlinson Coupler Co.* v. *Van Dorn Coupler Co. et al.*

1,230,715, R. M. Johnson, Motor-vehicle body, filed Aug. 17, 1928, D. C., S. D. N. Y., Doc. E 46/200, *R. M. Johnson* v. *The First National Pictures, Inc., et al.* Doc. E 46/201, *R. M. Johnson* v. *Wirth & Hamid, Inc.*

1,235,666. (See 1,082,682.)

1,254,316. (See 882,517.)

1,266,988, Pridham & Jensen, Amplifying receiver; 1,448,279, 1,579,392, same, Electrodynamic receiver, filed Aug. 16, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2166–L, *The Magnavox Co.* v. *F. H. Thompson Co.*

1,269,354. (See 1,079,795.)

1,285,117, Gibbs & Conover, Process for the manufacture of phthalic anhydride; Re. 15,520, C. Conover, Apparatus for bringing about the controlling reactions between gases, filed July 25, 1928, D. C., W. D. N. Y., Doc. 1885–H, *The Selden Co.* v. *The National Aniline & Chemical Co., Inc.*

1,287,799. (See 1,223,223.)

1,301,758, A. Stern, Embroidery mount, D. C., S. D. N. Y., Doc. E 39/207, *Venetian Monogram Corp.* v. *Paris Monogram Co., Inc.* Dismissed without prejudice, Aug. 21, 1928. Doc. E 39/208, *Venetian Monogram Corp.* v. *M. Fix. et al.* Decree as above.

1,304,166. (See 1,082,682.)

1,307,734, A. V. Gullborg, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, filed Aug. 22, 1928, D. C., N. D. Tex. (Fort Worth), Doc. E 551, *The Bassick Mfg. Co.* v. *B. Smith et al.*

1,322,650, G. Sundback, Fastener for slit and other closures, appeal filed Aug. 27, 1928, C. C. A., 2d Cir., *Hookless Fastener Co.* v. *H. L. Rogers Co., Inc.*

1,326,153, W. J. Fleming, Buckle support, D. C., S. D. N. Y., Doc. E 35/15, *Fleming & Keeves Co., Inc.*, v. *H. Goodman et al.* Patent held valid and infringed Aug. 23, 1928.

1,361,508, J. T. Tice, Calendar rack, D. C., N. D. Ga. (Atlanta), Doc. E 502, *J. T. Tice* v. *The Murray Co.* Patent held valid, injunction issued (notice dated Aug. 25, 1928).

1,370,855, J. Donner, Cream depilatory, filed July 11, 1928, D. C., N. D. Ill., E. Div., Doc. 8438, *J. Donner* v. *Walgreen Co.*

1,381,852, C. H. Tomlinson, Automatic car and electric coupler and reversing switch; 1,422,241, same, Electric multiple-connection plug, filed July 23, 1928, D. C., N. D. Ill., E. Div., Doc. 8488, *The Tomlinson Coupler Co.* v. *Van Dorn Coupler Co. et al.*

1,391,750, R. C. Montgomery, Straw hat, filed Aug. 27, 1928, D. C., S. D. N. Y., Doc. E 46/224, *Knox Hat Co., Inc.*, v. *Wallkill Hat Works, Inc.* Doc. E 46/225, *Knox Hat Co., Inc.*, v. *Sarnoff-Irving Hat Stores, Inc.*

1,399,419. (See 1,079,795.)

1,402,120. (See 1,223,223.)

1,422,241. (See 1,381,852.)

1,433,349. (See 882,517.)

1,433,350. (See 882,517.)

1,433,351. (See 882,517.)

1,435,037. (See 1,079,795.)

1,447,090, J. E. Langsdorf, Necktie, C. C. A., 2d Cir., Doc. 10064, *Franc-Strohmeyer & Cowan, Inc.*, v. *A. Siegman, Inc.* Affirmed (notice dated Aug. 20, 1928).

1,448,279. (See 1,266,988.)

1,448,477. (See 1,079,795.)

1,475,980. (See 1,307,734.)

1,517,035. (See Re. 16,103.)

1,535,981, 1,535,982, F. S. Carr, Fastener, filed Aug. 25, 1928, D. C., E. D. Mich., S. Div., Doc. 2825, *Carr Fastener Co.* v. *Magnus & Esterman Co. et al.*

1,535,982. (See 1,535,981.)

1,566,014, F. L. Johnson, Collapsible-tire core; 1,618,153, same, Collapsible-tire-building form, filed Aug. 21, 1928, D. C., N. D. Ohio, E. Div., Doc. 2662, *F. L. Johnson et al.* v. *The Bridgewater Machine Co.*

1,579,392. (See 1,266,988.)

1,582,226, A. J. Ray, Automatic telephone system, filed Aug. 17, 1928, D. C. Mass., Doc. 3010, *C. Glantz* (*B. J. Harrison Mfg. Co.*) v. *Brown Bros. Co.*

1,584,458. (See 1,175,686.)

1,599,266, F. O. Albertson, Valve-seat refacer, filed Aug. 20, 1928, D. C., M. D. Pa. (Scranton), Doc. 586, *Albertson & Co.* v. *Alvord Reamer & Tool Co.*

1,614,816, P. H. York, Adjustable roller conveyer, filed July 7, 1928, D. C., N. D. Ill., E. Div., Doc. 8429, *Logan Co.* v. *Mathews Conveyor Co.*

1,618,153. (See 1,566,014.)

1,626,474, S. Morrison, Double-swinging-mirror compact case, filed Aug. 17, 1928, D. C., S. D. N. Y., Doc. E 46/204, *S. Morrison* v. *Pallas Mfg. Co., Inc.*

1,631,347. (See 1,175,686.)

1,635,692. (See 1,132,273.)

1,642,675. (See 1,009,502.)

1,658,864, E. J. Sternberg, Dough-molding device, filed July 23, 1928, D. C., N. D. Ill., E. Div., Doc. 8487, *Thomson Machine Co.* v. *E. J. Sternberg.*

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1,667,448. (See Re. 16,103.)

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Des. 69,423 (*a*), H. Abrams, Backplate for lighting fixtures; Des. 69,429, same, Arm for lighting fixtures, filed Aug. 16, 1928, D. C., M. D. Pa. (Scranton), Doc. 585, *Cresent Brass Mfg. Co.* v. *H. H. Sprenkle & Co.*

Des. 69,423 (*b*), H. Abrams, Backplate for lighting fixtures; Des. 69,426, same, Canopy for lighting fixtures; Des. 69,428, same, Segmental portion for lighting fixtures; Des. 69,427, Des. 69,429, same, Arm for lighting fixtures; Des. 69,728, same, Plate for lighting fixtures, filed Aug. 17, 1928, D. C., S. D. N. Y., Doc. E 46/202, *Cresent Brass Mfg. Co.* v. *Incandescent Supply Co.*

Des. 69,426. (See Des. 69,423 (*b*).)

Des. 69,427. (See Des. 69,423 (*b*).)

Des. 69,428. (See Des. 69,423 (*b*).)

Des. 69,429. (See Des. 69,423 (*a*) and (*b*).)

Re. 13,758. (See 882,517.)

Re. 15,520. (See 1,285,117.)

Re. 16,103, J. L. Sullivan, Wire-fastening device; 1,664,096, same, Furring and fastening device; 1,517,035, G. F. Voight, Furring nail; 1,667,448, same, Furring unit, filed Aug. 18, 1928, D. C., N. D. Calif. (San Francisco), Doc—*Economy Products Corp. et al.* v. *W. E. Marquart.* Doc. 2167–S, *Economy Products Corp. et al* v. *R. H. Buck.*

T. M. 70,856, T. M. 134,317, Gillette Safety Razor Co., Safety razor and safety-razor blades; T. M. 160,194, T. M. 164,884, same, safety-razor blade, filed July 25, 1928, D. C., N. D. Ill., E. Div., Doc. 8491, *Gillette Safety Razor Co.* v. *M. Davis et al.*

T. M. 134,317. (See T. M. 70,856.)

T. M. 158,867, The Winget Mfg. Co., Children's coveralls, bloomers, etc., filed July 16, 1928, D. C., N. D. Ill., E. Div., Doc. 8485, *Winget Kickernick Co.* v. *La Mode Garment Co.*

T. M. 160,194. (See T. M. 70,856.)

T. M. 164,884. (See T. M. 70,856.)

T. M. 170,656, Process Chemicals, Inc., Insecticide and mothproofing composition, filed July 6, 1928, D. C., N. D. Ill., E. Div., Doc. 8427, *The Larvex Corp.* v. *Dean Mfg. Co.*

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,387,886, Goodrum and Clausen, Telephone system, decided August 14, 1928, claims 7, 8, 9, and 11.

Pat. 1,550,568, R. T. Pollock, Process and apparatus for treating hydrocarbon oils, decided September 14, 1928, claim 1.

Pat. 1,582,665, E. E. Berry, Friction drive for driers, decided September 10, 1928, claims 1, 2, and 4.

Pat. 1,620,148, L. L. Williams, Display stand, decided August 31, 1928, single claim.

Pat. 1,647,503, T. W. Case, Reproducing amplifier, decided September 11, 1928, claims 1 and 2.

Pat. 1,669,466, C. C. Hansen, Mounting for rock drills, decided September 14, 1928, claim 1.

Final decision in interference has been rendered against the following trade-mark:

T. M. 40,563, Medical compound, C. P. J. Bryant, Kansas City, Mo. Registered June 9, 1903. Decided October 4, 1928.

Disclaimers.

REIS. 16,749.—*Robert L. Holliday*, New York, N. Y. MANUFACTURE OF A FINELY-DIVIDED DRY SOAP PRODUCT. Patent dated September 27, 1927. Disclaimer filed October 9, 1928, by the assignee, *Industrial Spray Drying Corporation*.

Hereby enters this disclaimer to certain of the process claims of the above identified reissue patent, namely, claims 1, 2, 3, and 4, excepting when in the process claimed the step of preparing the soap stock involves adding water to the ordinary soap of regular commercial manufacture for preparing the soap in the form of a free-flowing liquid stock so that it may be sprayed into the form of fine drops.

1,506,783.—*Howard F. Snyder*, Newton, Iowa. WASHING-MACHINE TUB. Patent dated September 2, 1924. Disclaimer filed October 6, 1928, by the assignee by mesne assignments, *The Maytag Company*.

Hereby enters this disclaimer to those claims of the specification of said Letters Patent which are as follows:

"10. In a washing machine tub provided with a recess in a wall thereof, a substantially disc shaped agitator seated in said recess and adapted to be turned therein, the operative surface of said agitator being formed to engage the materials to be washed and forming substantially a continuation of the aforesaid wall of the tub.

"11. In a washing machine tub provided with a recess in the bottom wall thereof, a substantially circular shaped agitator seated in said recess and adapted to be turned therein, the operative surface of the agitator being formed to engage the materials to be washed and forming substantially a continuation of the aforesaid wall of the tub.

"12. In a washing machine tub provided with a recess in the bottom wall thereof, a substantially disc shaped agitator seated in the recess and adapted to be turned therein, the operative surface of the agitator being formed to engage the materials to be washed and forming substantially a continuation of the aforesaid wall of the tub.

"13. In a washing machine tub provided with a downwardly sloping recess in the bottom wall thereof and upwardly extending bars projecting upwardly from the bottom of the tub into said recess, a shaft extending through said bar, a substantially disc shaped agitator seated in said recess and adapted to be turned by said shaft, the operative surface of the agitator being formed to engage the materials to be washed and extending for a substantial distance substantially parallel to the bottom of the said recess."

1,577,033.—*Mark B. Kerr*, Rosebank, N. Y. AUTOMATIC TELEPHONE-EXCHANGE SYSTEM. Patent dated March 16, 1926. Disclaimer filed October 4, 1928, by the assignee, *Western Electric Company, Incorporated*.

Hereby enters this disclaimer to the said claims of said Letters Patent which are in the following words to wit:

"8. In a telephone exchange system, a calling line, a called office, a first selective switch, a second selective switch, a first group of trunks extending from said first selective switch, a second group of trunks extending between said second switch and said called office, a mechanism accessible in common to a plurality of selective switches for controlling the operation thereof, means under control of said mechanism for selecting a particular trunk in said first group of trunks and for testing the trunks of said second group of trunks, and means effective when all the trunks in said second group are busy for releasing said particular selected trunk and automatically selecting a different trunk in said first group of trunks.

"9. In a telephone exchange system, a calling office, called offices, a first selective switch, a second selective switch, a plurality of groups of trunks extending from said first switch, another plurality of groups of trunks extending between said calling office and said called offices, means for selecting a trunk in a particular one of said first mentioned groups, means for testing all trunks in a particular one of said second groups, and means effective when all the trunks of the latter group are busy for releasing the first selected trunk and for selecting a second trunk in a different one of said first plurality of groups of trunks.

"10. In a telephone exchange system, a calling office, called offices, a first selective switch, a second selective switch, a plurality of groups of trunks bearing certain numerical designations and extending from said first switch, each group bearing a different numerical designation, another plurality of groups of trunks extending between said calling office and said called offices, means for selecting a trunk in a particular one of said first mentioned groups, means for testing all the trunks in a particular one of said second mentioned groups, and means effective when all the trunks of the latter group are busy for releasing the first selected trunk and for selecting a trunk bearing a different numerical designation in another of said first plurality of groups of trunks."

1,000,556.—*William H. Matthies*, Hackensack, N. J. STRAIGHTFORWARD TRUNKING SYSTEM. Patent dated September 21, 1926. Disclaimer filed September 29, 1928, by the assignee, *Western Electric Company, Incorporated*.

Hereby enters this disclaimer to the said claim of said Letters Patent which is in the following words, to wit:

"5. In a trunking system, incoming trunks, a smaller number of outgoing trunks, switching means associated with each incoming trunk and responsive to the seizing thereof for hunting for and connecting the seized incoming trunk with an idle outgoing trunk, means for transmitting a busy signal to any incoming trunk when seized responsive when all of said outgoing trunks are engaged by other incoming trunks, means for discontinuing the busy signal to said seized incoming trunk if any of the outgoing trunks become idle while said incoming trunk is still seized and means for continuing the trunk hunting movement of the corresponding switching means of said seized incoming trunk after the busy signal is discontinued and until the idle outgoing trunk is found."

1,621,804.—*Fred K. Murphy* and *Roy W. Retterer*, Indianapolis, Ind. FLUID-OPERABLE LUBRICATOR AND FEEDER FOR ENGINES. Patent dated March 22, 1927. Disclaimer filed October 6, 1928, by the patentees.

Hereby disclaim in the before mentioned Letters Patent claims 4, 5, and 6 thereof, since these should have been issued in Patent No. 1,620,911 in view of the decision in the *National Electric Company* v. *Automatic Company*, 15 Fed. (2d) 257, and by reason of the allowance of the same identical claims in the application for reissue of said Patent No. 1,620,911, and your petitioners specifically disclaim these claims in Patent No. 1,621,804 from the date of the granting of the reissue of Patent No. 1,620,911 upon application Serial No. 297,205, and your petitioners also request that this disclaimer be entered and be published in the same OFFICIAL GAZETTE and on the same day as the reissue patent is granted and published.

1,645,017.—*Carl Georg Munters* and *Baltzar Carl von Platen*, Dala-Jarna and Ystad, Sweden. ABSORPTION REFRIGERATING APPARATUS. Patent dated October 11, 1927. Disclaimer filed September 28, 1928, by the assignee, by mesne assignments, *Electrolux Servel Corporation*.

Hereby enters this disclaimer to claim 5 of the aforesaid patent which is in the following words, to wit:

"5. In absorption refrigerating apparatus, the combination of a generator, an absorber, a condenser and an evaporator connected so as to form closed circulating systems for the cooling agent and the absorption liquid, including a conduit within the generator in communication with the absorber and means wholly within the generator to control flow through said conduit in response to variations of liquid level in the generator."

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 23, 1928.

[VOL. 375. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 261,114. ELOF HANSSON, Gottenborg, Sweden. Filed Feb. 3, 1928.



No claim is made to the exclusive use of the word "Brand" shown in the drawing.

For Paper Pulp.

Claims use since Aug. 18, 1927.

Ser. No. 266,902. WEISSMAN, LICHTENSTEIN & SCHERTZER, New York, N. Y. Filed May 23, 1928.

TEESHON

For Lambskins.

Claims use since April, 1927.

Ser. No. 267,958. INLAND CONSOLIDATED COAL CORPORATION, Chicago, Ill. Filed June 13, 1928.



"BLACK BIRD"

For Coal.

Claims use since May 21, 1928.

Ser. No. 269,253. PEALE, PEACOCK AND KERR OF NEW YORK, New York, N. Y. Filed July 7, 1928.

PNEUMO

GRAVITY

For Coal.

Claims use since July 1, 1925.

Ser. No. 270,974. OLD BEN COAL CORPORATION, Chicago, Ill. Filed Aug. 13, 1928.



For Coal.
Claims use since July 28, 1928.

CLASS 2.

Receptacles.

Ser. No. 270,220. THE ADAMS BAG COMPANY, Chagrin Falls, Ohio. Filed July 21, 1928.

NuNamel

For Polished Paper Sacks and Bags Employed to Contain Flour and Analogous Material.
Claims use since Jan. 1, 1920.

Ser. No. 271,444. LONE STAR BAG & BAGGING COMPANY, Houston, Tex. Filed Aug. 23, 1928.



For Burlap Bags.
Claims use since Oct. 1, 1921.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 256,026. FRANK C. WEBER & COMPANY, Chicago, Ill. Filed Oct. 12, 1927.

JACKSON PARK

For Cleanser—i. e., a General Household Cleaning and Polishing Preparation in Powder Form.
Claims use since on or about Sept. 1, 1903.

Ser. No. 263,445. CLARENCE E. TUCKER, doing business as The Tucker Co., Dallas, Tex. Filed Mar. 19, 1928.

TUCKO

For Chemical Cleaner for Metals, Woodwork, Painted Surfaces, Tile, Machinery, Skin Furs, Clothing, Rugs, and Furniture.
Claims use since Feb. 1, 1928.

Ser. No. 264,921. ROLLIN H. STEVENS, doing business as Mabon Soap Co., Detroit, Mich. Filed Apr. 16, 1928.

MABON

For Toilet Soaps.
Claims use since about Feb. 20, 1928.

Ser. No. 267,388. RED SPOT PAINT & VARNISH CO., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Filed June 2, 1928.

RED SPOT

The drawing is lined to indicate the color red.
For Cleaner, Both Caustic and Abrasive, in Paste and Liquid Form for Floors, Furniture, Woodwork, Walls, and Window Shades; Oil Soaps, Metal Polish, and Nickel Paste.
Claims use since June 1, 1912.

Ser. No. 269,997. JOHN TISCHLER, East Port Chester, Conn. Filed July 21, 1928.

Sanbec

For Auto Top, Metal Polish—Viz, Bronze, Copper, and Brass Polish.
Claims use since July 13, 1928.

CLASS 5.

Adhesives.

Ser. No. 269,467. CULLEN L. HUNTOON, Los Angeles, Calif. Filed July 12, 1928.



CELLO-SOLE-CEMENT

The words "Sole-Cement" and "Service" are disclaimed apart from the mark as shown on the drawing.
For Adhesive Cement for Cementing Shoe Soles.
Claims use since Oct. 15, 1926.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 263,496. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 20, 1928.

ITONE

For Eyewash.
Claims use since Nov. 18, 1927.

Ser. No. 264,736. PIERRE PROCESS, INC., New York, N. Y. Filed Apr. 12, 1928.

Pierré Process

The word "Process" is disclaimed apart from the mark shown on the drawing.
For Solution Used to Wave Straight Human Hair.
Claims use since Feb. 15, 1928.

Ser. No. 266,393. NEWPORT MANUFACTURING COMPANY, Carrollville, Wis. Filed May 14, 1928.

DECALIN

For Photographic Chemicals, Dyestuffs, Deca-Hydronaphthalene.
Claims use since Nov. 15, 1924.

Ser. No. 266,765. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed May 21, 1928.

ACTO

For White Mineral Oil for Chemical, Medicinal, Pharmaceutical, and Veterinary Purposes.
Claims use since Oct. 19, 1918.

Ser. No. 267,083. SAL-ORA CHEMICAL COMPANY, Minneapolis, Minn. Filed May 26, 1928.



The words "Mouth Wash Powder" are disclaimed apart from the other features of the mark shown in the drawing. The mark comprises the representation of the shield, a glass containing the red liquid, the representation of the spigot, and the word "Sal-Ora" lined for the color red.
For Powder Mouth Wash and Gargle.
Claims use since May 15, 1928.

Ser. No. 267,886. CLOROX CHEMICAL CORPORATION, Oakland, Calif., assignor to Clorox Chemical Co., Oakland, Calif., a Corporation of Delaware. Filed June 12, 1928.

CLOROX

For Bleaching, Cleansing, Antiseptic, and Germicidal Compounds.
Claims use since July 15, 1914.

Ser. No. 267,908. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed June 12, 1928.

PHOSPHO-LECITHIN

No claim is made to the exclusive use of the word "Lecithin" apart from the mark shown on the drawing.
For Tonic Used in the Treatment of All Cases in Which Glycerophosphates with Strychnine and Lecithin Are Indicated—Namely, Impoverished or Depressed Conditions of the Nervous System.
Claims use since about 1904.

Ser. No. 269,375. THE C. I. TOGSTAD COMPANY, Kokomo, Ind. Filed July 10, 1928.

CHARMAINE

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since June 10, 1928.

Ser. No. 269,395. THE CRYSTAL CHEMICAL COMPANY, INC., Bronx, N. Y. Filed July 11, 1928.

OUTDOOR GIRL

For Face Powders.
Claims use since Jan. 15, 1928.

Ser. No. 271,350. ETHAN MATHER, doing business as Raxmonia Company, Cincinnati, Ohio. Filed Aug. 21, 1928.

RAXMONIA

For Cleanser, Bleacher, Disinfectant, and Antiseptic Powder.
Claims use since Apr. 16, 1928.

Ser. No. 271,388. JACIEL PERFUMERS, INC., New York, N. Y. Filed Aug. 22, 1928.

Pen-a-tox

For Tooth Paste and Mouth Wash.
Claims use since May 15, 1928.

Ser. No. 272,014. WESTERN PHARMACAL COMPANY, Salt Lake City, Utah. Filed Sept. 6, 1928.

FORMACID

For Granular Effervescent Urinary Antiseptic.
Claims use since Sept. 12, 1927.

Ser. No. 272,015. WESTERN PHARMACAL COMPANY, Salt Lake City, Utah. Filed Sept. 6, 1928.

HYGETTE

For Antiseptic Powder.
Claims use since Apr. 1, 1928.

Ser. No. 272,129. BYK-GULDENWERKE CHEMISCHE FABRIK AKTIENGESELLSCHAFT, Berlin, Germany. Filed Sept. 10, 1928.

Aortalgin

For Medicinal Preparation for the Treatment of Heart Diseases.
Claims use since Apr. 6, 1926.

Ser. No. 272,227. PARFUMERIE ET SAVONNERIE GILOT, SOCIETE ANONYME, Paris, France. Filed Sept. 11, 1928.

"MORMITT"

For Insecticides.
Claims use since May 28, 1921.

Ser. No. 272,234. VANC CHEMICAL COMPANY, Camden, N. J. Filed Sept. 11, 1928.

OXITE

For Antiseptic Tablets.
Claims use since July 2, 1928.

Ser. No. 272,285. THEO. A. KOCHS COMPANY, Chicago, Ill. Filed Sept. 12, 1928.

Millefleurs

For Hairdressing.
Claims use since October, 1925.

Ser. No. 272,348. PHARMACY PRODUCTS, INC., Hollywood, Calif. Filed Sept. 13, 1928.

eson

For Bactericidal and Germicidal Antiseptic Solution for the Treatment of Sore Throat, Tonsillitis, Catarrh, and Pyorrhea.
Claims use since Apr. 6, 1928.

Ser. No. 272,349. THE PYRIDIUM CORPORATION, Nepera Park, N. Y. Filed Sept. 13, 1928.

PYRIDIUM

For Medicines for Use in Germ Infections and as an Antiseptic.
Claims use since earlier than 1922.

CLASS 7.

Cordage.

Ser. No. 271,601. H-G COMPANY, Portsmouth, Va. Filed Aug. 27, 1928.

U AUTO KARRY

For Auto Towlines.
Claims use since July 30, 1928.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 272,387. CHASE BRASS & COPPER COMPANY, Waterbury, Conn. Filed Sept. 14, 1928.



For Cigarette Humidors and Ash Trays.
Claims use since Aug. 21, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 268,359. ELOF HANSSON, Gottenborg, Sweden. Filed June 20, 1928.



No claim is made to the exclusive use of the words "Impregnated Safety Matches Made in Austria."
For Matches.
Claims use since April, 1927.

Ser. No. 271,595. DONELSON AND POSTON, Memphis, Tenn. Filed Aug. 27, 1928.

Big Boy

For Matches.
Claims use since Jan. 30, 1928.

Ser. No. 272,122. AMTORG TRADING CORPORATION, New York, N. Y. Filed Sept. 10, 1928.



For Matches.
Claims use since about Aug. 1, 1928.

Ser. No. 272,146. DONELSON AND POSTON, Memphis, Tenn. Filed Sept. 10, 1928.

BETTERMAID

For Matches.
Claims use since June 17, 1923.

CLASS 10.

Fertilizers.

Ser. No. 269,820. THE BARRETT COMPANY, New York, N. Y. Filed July 19, 1928.

ARCADIAN

For Fertilizers—Namely, Sulfate of Ammonia, Nitrate of Soda, Ammonium Chloride, Ammonium Nitrate, Ammonium Phosphate, Calcium Nitrate, and Urea.
Claims use since 1914 as to sulfate of ammonia; and as to nitrate of soda, ammonium chloride, ammonium nitrate, ammonium phosphate, calcium nitrate, and urea since June, 1928.

Ser. No. 270,410. THE BARRETT COMPANY, New York, N. Y. Filed Aug. 1, 1928.



No claim is made to the representation of a bag of fertilizer apart from the mark as shown.

For Fertilizers.—Namely, Sulfate of Ammonia, Nitrate of Soda, Ammonium Chloride, Ammonium Nitrate, Ammonium Phosphate, Calcium Nitrate, and Urea.

Claims use since 1914 as to sulfate of ammonia; as to nitrate of soda, ammonium phosphate, and urea since June, 1928; as to calcium nitrate since July 2, 1928; and as to ammonium chloride and ammonium nitrate since July 5, 1928.

CLASS 11.

Inks and Inking Materials.

Ser. No. 268,192. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 16, 1928.



The drawing is lined to show the colors yellow, red, and green, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink."

For Writing Inks.

Claims use since May 1, 1928.

CLASS 12.

Construction Materials.

Ser. No. 231,682. DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa. Filed May 15, 1926.



The lining on the drawing indicates the color gold.

For Metal Shelving.

Claims use since Jan. 11, 1926.

Ser. No. 270,415. E. D. CODDINGTON MANUFACTURING COMPANY, North Milwaukee, Wis. Filed Aug. 1, 1928.

Cedartex

For Plaster.

Claims use since on or about Feb. 1, 1926.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 269,932. AMERICAN FLANGE & MANUFACTURING CO., Chicago, Ill. Filed July 21, 1928.



For Bung-Receiving Bushings Employed in the Construction of Liquid Containers, Particularly Oil Barrels, and Also for Cap Seals That are Applied to the Bushings to Guard Against Removal of Bungs Therefrom.

Claims use since Mar. 10, 1928.

Ser. No. 270,903. THE WASHBURN COMPANY, Worcester, Mass. Filed Aug. 11, 1928.

ORANGE-AIDER

For Strainers.

Claims use since Aug. 1, 1928.

Ser. No. 271,305. M. & B. MANUFACTURING CO., Leonia, N. J. Filed Aug. 20, 1928.



P. B. SOIL

Applicant disclaims the word "Soil" and the illustration of the application of the goods apart from the mark as shown.

For Plumber's Soil.

Claims use since May 1, 1928.

Ser. No. 271,763. LION CHAIN COMPANY, Chicago, Ill. Filed Aug. 30, 1928.

Lion

For Tire Chains, Parts, and Fittings Therefor.

Claims use since Feb. 11, 1928.

Ser. No. 271,764. LION CHAIN COMPANY, Chicago, Ill. Filed Aug. 30, 1928.

Cub

For Tire Chains, Parts, and Fittings Therefor.

Claims use since Feb. 11, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 271,153. UNITED STATES FOIL COMPANY, Louisville, Ky. Filed Aug. 16, 1928.

METALKRAFT

For Metal Foil, Metal-Foil Sheets, Laminated Sheet Materials Including Metal or Metal Foil, Pipe Coverings of Metal Foil or Reinforced Metal or Metal-Foil Sheets.

Claims use since about May 1, 1928.

Ser. No. 272,047. THE NEW JERSEY ZINC COMPANY, Newark, N. J. Filed Sept. 7, 1928.

ZILLOY

For Zinc-Base Alloy.

Claims use since Aug. 6, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 257,919. BETTIE SUBLETTE COLLINS, doing business as Sister Betty Products Co., Lexington, Ky. Filed Nov. 22, 1927.



No claim is made to the exclusive use of the words "Trade-Mark, Shines, Brightens, Cleans," and "Cleaner and Polisher." The picture of the woman is fanciful.

For Polish for Cleaning and Polishing Furniture, Automobiles, and All Painted and Varnished Surfaces.

Claims use since June, 1927.

Ser. No. 271,323. STEELMAN & ARCHER, Philadelphia, Pa. Filed Aug. 20, 1928.

TOUGH-TITE

For Varnish Stains and Varnishes.

Claims use since July 14, 1922.

Ser. No. 271,327. ROBERT WERSCHKY, doing business as Nu-Su Products Company, Denver, Colo. Filed Aug. 20, 1928.

Nu-Su

For Ready-Mixed Paints and Varnishes for Decorating Leather Goods of All Kinds, Including Shoes.

Claims use since about Aug. 14, 1928.

Ser. No. 271,436. THE GILBERT SPRUANCE COMPANY, Philadelphia, Pa. Filed Aug. 23, 1928.

FLUID LIGHT

For Paint Enamels and Flat Paints.
Claims use since June 1, 1928.

Ser. No. 271,649. GREENPOINT PAINT & VARNISH CORPORATION, Brooklyn, N. Y. Filed Aug. 28, 1928.

GREENCO

For Ready-Mixed Paints and Varnishes.
Claims use since about July 16, 1928.

Ser. No. 272,066. THE TROPICAL PAINT & OIL COMPANY, Cleveland, Ohio. Filed Sept. 7, 1928.

B & P

For Enamel in the Nature of Paint.
Claims use since about January, 1919.

CLASS 17.

Tobacco Products.

Ser. No. 272,147. DONELSON AND POSTON, Memphis, Tenn. Filed Sept. 10, 1928.

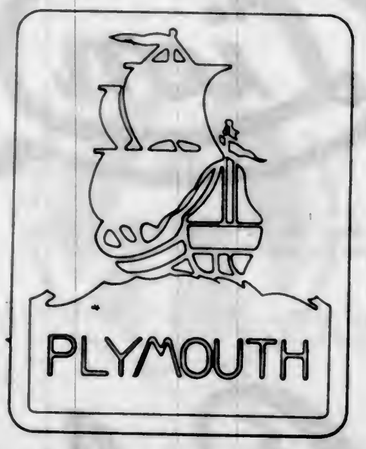
BETTERMAID

For Cigars.
Claims use since June 17, 1923.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 268,114. PLYMOUTH MOTOR CORPORATION, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 15, 1928.



The word "Plymouth" is disclaimed apart from the mark as shown.
For Automobiles and Their Structural Parts.
Claims use since June 1, 1928.

Ser. No. 269,022. BERNARD INDAHL, doing business as Spokane Luggage Carrier Co., Spokane, Wash. Filed July 3, 1928.



The representation of the goods and of bumpers showing application of the goods is disclaimed apart from the mark as shown.
For Vehicle Luggage Carriers.
Claims use since June 4, 1928.

Ser. No. 270,707. KEYSTONE AIRCRAFT CORP., Bristol, Pa. Filed Aug. 7, 1928.

PATHFINDER

For Flying Machines.
Claims use since Oct. 1, 1927.

Ser. No. 270,708. KEYSTONE AIRCRAFT CORP., Bristol, Pa. Filed Aug. 7, 1928.

PRONTO

For Flying Machines.
Claims use since Oct. 1, 1927.

Ser. No. 271,592. FRANK V. BORICK, New York, N. Y. Filed Aug. 27, 1928.

Fleetwing

For Pleasure Boats—Namely, Cruisers, Runabouts, Speed Boats, and Yacht Tenders.
Claims use since March, 1926.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 252,176. WARFORD ELECTRIC, INC., New York, N. Y. Filed July 16, 1927.

WARFORD

For Radio Amplifying Units, Battery Eliminators, and Loud Speakers for Use with Radio Apparatus.
Claims use since Mar. 15, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 261,941. THE CHILDREN'S PRESS, Chicago, Ill. Filed Feb. 20, 1928.

Joey

The lining on the drawing is for shading purposes only.
For Dolls.
Claims use since Jan. 30, 1928.

Ser. No. 263,001. JAMES HEDDON'S SONS, Dowagiac, Mich. Filed Mar. 12, 1928.

SPOON-Y FROG

No claim is made to either of the words "Frog" or "Spoon" alone.
For Artificial Bait.
Claims use since July 2, 1927.

Ser. No. 270,214. A. G. SPALDING & BROS., New York, N. Y. Filed July 26, 1928.



The mark consists of a wide vertical black band on the face of the golf-club head. No claim is made to the representation of the golf-club head.
For Iron Golf Clubs.
Claims use since Jan. 1, 1925.

Ser. No. 271,374. GEO. BORGFELDT & CO., New York, N. Y. Filed Aug. 22, 1928.

MIGNONNE

For Dolls.
Claims use since Aug. 15, 1928.

Ser. No. 271,603. THE HORTON MANUFACTURING COMPANY, Bristol, Conn. Filed Aug. 27, 1928.

"Homaco"

No claim is made to the representation of the fishing rods apart from the mark shown in the drawing.
For Fishing Rods.
Claims use since July 17, 1928.

Ser. No. 272,079. THE H. & D. FOLSOM ARMS COMPANY, New York, N. Y. Filed Sept. 8, 1928.

"Cosmopolitan"

For Fishhooks.
Claims use since Aug. 28, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 243,841. BADGER FIRE EXTINGUISHER COMPANY, Boston, Mass. Filed Feb. 5, 1927.

BADGER'S

For Portable Fire Extinguishers in the Nature of Containers for Chemicals.
Claims use since on or about Jan. 1, 1902.

Ser. No. 243,842. BADGER FIRE EXTINGUISHER COMPANY, Boston, Mass. Filed Feb. 5, 1927.

Badger's

For Portable Fire Extinguishers.
Claims use since on or about Mar. 9, 1926.

Ser. No. 244,709. MECHANICS MACHINE COMPANY, Rockford, Ill., assignor to Mechanics Universal Joint Company, Rockford, Ill., a Corporation of Illinois. Filed Feb. 21, 1927.

MECHANICS

For Universal Joints and Change-Speed Transmissions.
Claims use since 1913.

Ser. No. 253,196. WALTER NACKEN, Gruna, near Chemnitz, Germany. Filed Aug. 8, 1927.

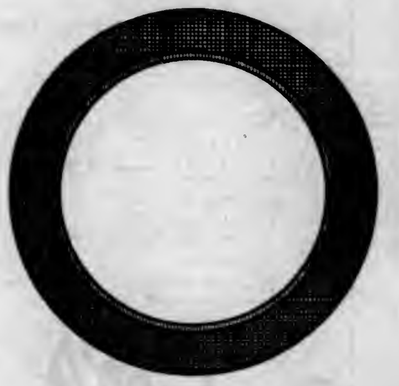


The representation of the wire-spooling drum is disclaimed apart from the mark shown in the drawing.

For Wire Pulling and Drawing Machines, Manifold Wire-Drawing Machines, Spooling Machines, Rolling Machines for Metallic Wire and Ribbons, and Parts Thereof.

Claims use since 1916.

Ser. No. 259,135. RODIC RUBBER CO., Garwood, N. J. Filed Dec. 19, 1927.



The mark consists of a red color applied to the lining of the typewriter platens. The lining shown in the drawing indicates red and black colors. The representation of the platen shown in the drawing is disclaimed.

For Typewriter Platens.

Claims use since Nov. 20, 1925.

Ser. No. 261,892. ALFRED S. MARLOW, Lincoln Park, N. J. Filed Feb. 18, 1928.

MARLO WATER HOG

Applicant claims ownership of registered mark No. 207,549, issued Jan. 5, 1926.

For Pumps.

Claims use since Mar. 25, 1925.

Ser. No. 265,915. MAYHEW STEEL PRODUCTS, INC., Shelburne Falls, Mass. Filed May 4, 1928.

REDHED

For Regular Taper Chisels, Extra-Long Octagon Chisels, Cape Chisels, Diamond-Point Chisels, Round-Nose Chisels, Cold Chisels, Solid Punches, Center Punches, Lining-up Punches, Six-Inch Prick Punches, Pin Punches, Extra-Long Punches, Pliers, Bit Extensions, Nail Sets, and Reamers.

Claims use since on or about Jan. 1, 1928.

Ser. No. 269,746. THE SCOTT AND FETZER COMPANY, Cleveland, Ohio. Filed July 17, 1928.

Aer-rotor

The word "Rotor" is not claimed herein apart from the mark as shown.

For Electric Vacuum Cleaners.

Claims use since July 3, 1928.

Ser. No. 270,288. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed July 28, 1928.

DIAMITE

For Metal-Cutting Tools and Dies.

Claims use since July 19, 1928.

Ser. No. 271,550. INTERNATIONAL FIRE EQUIPMENT CORPORATION, West New Brighton, N. Y. Filed Aug. 25, 1928.

INTERNATIONAL

For Portable Hand Fire-Extinguishing Apparatus.

Claims use since July 25, 1928.

Ser. No. 271,591. BISSELL CARPET SWEEPER COMPANY, Grand Rapids, Mich. Filed Aug. 27, 1928.

HI-LO

For Carpet Sweepers.

Claims use since June 21, 1928.

Ser. No. 271,904. WILLIAM RAGG, Sheffield, England. Filed Sept. 4, 1928.

ROTAX

For Safety-Razor Blades.

Claims use since June 7, 1926.

Ser. No. 272,059. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed Sept. 7, 1928.

ORONITE

For Sprayers for Insecticide and Germicide Sprays.

Claims use since July 18, 1925.

Ser. No. 272,081. INTERNATIONAL SAFETY RAZOR CORP., Bloomfield, N. J. Filed Sept. 8, 1928.

NACET

For Razor Blades.

Claims use since July 6, 1928.

Ser. No. 272,105. THE F. E. KOHLER COMPANY, Canton, Ohio. Filed Sept. 8, 1928.

KAYO

For Shovels, Post-Hole Diggers, Hoes, Rakes, and Hand Weeders.

Claims use since May 10, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 271,484. FOX CASE CORPORATION, New York, N. Y. Filed Aug. 24, 1928.

FOX MOVIETONEWS IT SPEAKS FOR ITSELF

Applicant claims ownership of registered Trade-Mark No. 230,013, issued Feb. 21, 1928.

For Motion Pictures.

Claims use since about Oct. 20, 1926.

Ser. No. 271,602. HAVLICEK & CO., Prague, Czechoslovakia. Filed Aug. 27, 1928.

AUTOCASH

For Automatic Coin Changers of All Kinds.

Claims use since May 16, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 271,634. AMSTERDAM BROOM CO., Amsterdam, N. Y. Filed Aug. 28, 1928.



The color linings appearing on the drawing are intended to represent the conventional colors of the rainbow. The triangular corners at the top are green, followed by yellow, red, yellow, green, and blue.

For Brooms.

Claims use since July 15, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 270,361. WASHINGTON FURNITURE MANUFACTURING COMPANY, INC., Seattle, Wash. Filed July 30, 1928.

MILLIONAIRE

For Mattresses and Upholstered Furniture, Including Chairs, Stools, Davenports, Sofas, Lounges, Settees, Ottomans, Couches, Divans, and Day Beds.

Claims use since Feb. 1, 1928.

Ser. No. 271,480. EMBOSOGRAPH CORPORATION OF AMERICA, New York, N. Y. Filed Aug. 24, 1928.

EMBOSOFRAME

For Sign-Card Holders in the Nature of Racks or Frames of Metal for Use as Store Furniture.

Claims use since June 15, 1928.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 244,308. KLEMM REFLECTOR COMPANY, Philadelphia, Pa. Filed Feb. 12, 1927. Under 10-year proviso.

KLEMM

For Light Reflectors Made of Metal and Partly of Metal and Glass.
Claims use since 1880.

Ser. No. 267,158. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Candlesticks and Candelabra.
Claims use since 1900.

Ser. No. 269,309. NORTH DIGHTON STOVE COMPANY, Taunton, Mass. Filed July 9, 1928. Under 10-year proviso.

OAKLAND

For Coal and Wood Stoves and Coal, Wood, and Gas Ranges.
Claims use since Jan. 1, 1887.

Ser. No. 270,664. BAYLEY BLOWER COMPANY, Milwaukee, Wis. Filed Aug. 6, 1928.

AIROVANE

For Ventilating Fans.
Claims use since June 13, 1925.

Ser. No. 271,554. A. J. LINDEMANN & HOVERSON CO., Milwaukee, Wis. Filed Aug. 25, 1928.



The trade-mark consists of a blue stripe printed, stamped, dyed, or stenciled on the wicks or preferably of blue yarn woven in and constituting a part of the fabric of which the wick is formed, no claim being made to the representation of the wick. In the weaving of the fabric portions of the colored yarn will be brought to the surface of the wick, giving the appearance of a blue stripe or band which is visible when the wick is viewed from any angle.
For Wicks for Oil Cookstoves, Ranges, Heaters, Burners, and Lamps.
Claims use since June 1, 1928.

Ser. No. 271,622. ROBERTS ENGINEERING CO., Portland, Oreg. Filed August 27, 1928.

FIRE KING

The shading on the drawing indicates flames in red.
For Oil Burners.
Claims use since about Apr. 1, 1928.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 255,721. PACIFIC ASBESTOS & SUPPLY COMPANY, Portland, Oreg. Filed Oct. 6, 1927.

WEB FOOT

For Leather Belting.
Claims use since May 2, 1921.

Ser. No. 270,527. FORD MOTOR COMPANY, Fordson, Detroit, Mich. Filed July 28, 1928.

Ford

Applicant claims ownership of registrations No. 74,530, issued July 20, 1909; No. 74,765, issued Aug. 10, 1909; No. 115,500, issued Feb. 20, 1917; No. 125,702, issued June 3, 1919.
For Belts of Leather or Fabric, Portable Tire-Repair kits, Non-Metallic Washers, Gaskets, and Tire Covers.
Claims use since 1917 in respect of belts of leather or fabric; since Nov. 19, 1915, in respect of tire-repair kits; since Feb. 15, 1895, in respect of gaskets; and since Jan. 15, 1927, in respect of tire covers.

CLASS 37.

Paper and Stationery.

Ser. No. 253,386. ROWLAND M. PARROTT, Raleigh, N. C. Filed Aug. 12, 1927.



Parrott's Best

No claim is made to the surname "Parrotts" or the word "Best" apart from the mark as shown.
For Mimeograph Impression Paper.
Claims use since Dec. 13, 1924.

Ser. No. 260,469. ROACH PAPER COMPANY, Little Rock, Ark. Filed Jan. 21, 1928.



No claim is made to the word "Bond" apart from the mark shown.
For Writing Paper.
Claims use since Dec. 1, 1927.

Ser. No. 267,521. CHESTER TROAN, Los Angeles, Calif. Filed June 5, 1928.



For Correspondence Envelopes and Printed Letterheads.
Claims use since Jan. 2, 1927.

Ser. No. 271,170. CURTIS 1000 INCORPORATED, St. Paul, Minn. Filed Aug. 17, 1928.

POKER FACE

The picture shown is an original design and is not a portrait of any living individual.
For Mailing and Correspondence Envelopes.
Claims use since about July 18, 1928.

Ser. No. 271,594. THE DENNEY TAG COMPANY, West Chester, Pa. Filed Aug. 27, 1928.

FACTORTAG

For Printed Work Tags.
Claims use since July 15, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 263,577. AMERICAN ARTISAN & HARDWARE RECORD, INC., Chicago, Ill. Filed Mar. 22, 1928.

American Artisan
The Warm Air Heating and Sheet Metal Journal

For Magazine Published Weekly.
Claims use since Mar. 3, 1928.

Ser. No. 268,907. IVAN E. BOLLER, Brooklyn, N. Y. Filed June 30, 1928.

ORVEN BAILLE

The mark is a pen name containing all the letters of applicant's name.
For Pictorial Illustrations, Contributions to Periodicals, Newspapers, and Books.
Claims use since Oct. 19, 1926.

Ser. No. 270,163. AMERICAN LOAN COMPANY, Wilmington, Del., and Philadelphia, Pa. Filed July 26, 1928.

AMERICAN LOANS

The lining of trade-mark drawing is merely for shading.
For Publication Issued Monthly.
Claims use since October, 1927.

Ser. No. 270,170. COLLATERAL BANKERS, INC., New York, N. Y. Filed July 26, 1928.

COLLATERAL BANKERS

For Publication Issued Monthly.
Claims use since July, 1923.

Ser. No. 270,176. THE ECONOMIST PUBLISHING CO., Chicago, Ill. Filed July 26, 1928.

THE ECONOMIST

For Weekly Publications.
Claims use since 1888.

Ser. No. 271,407. AMOS PARRISH & CO., New York, N. Y. Filed Aug. 22, 1928.

Amos Parrish Magazine

The word "Magazine" appearing on the drawing is hereby disclaimed.
For Magazine.
Claims use since November, 1924.

Ser. No. 271,955. THE BASSICK MANUFACTURING COMPANY Chicago, Ill. Filed Sept. 6, 1928.

ALEMITE HIGH PRESSURE

For Monthly Periodicals.
Claims use since about November, 1922.

Ser. No. 272,127. W. D. BOYCE COMPANY, Chicago, Ill. Filed Sept. 10, 1928.

MOVIE Romances

For Monthly Magazine.
Claims use since Sept. 4, 1928.

Ser. No. 272,316. THE TOWN PUBLISHING COMPANY, Cleveland, Ohio. Filed Sept. 12, 1928.

THE BYSTANDER

For Periodical.
Claims use since Aug. 25, 1928.

Ser. No. 272,450. AL SIRAT GROTTO MYSTIC ORDER VEILED PROPHETS OF THE ENCHANTED REALM, Cleveland, Ohio. Filed Sept. 15, 1928.

The Black Fez

For Monthly Magazine.
Claims use since Nov. 1, 1923.

CLASS 39.

Clothing.

Ser. No. 244,484. THE ALLIGATOR COMPANY, St. Louis, Mo. Filed Feb. 17, 1927.

Alligator

For Coats, Jackets, Pants, Hats, and Caps for Men, Women, and Children; Hat and Cap Covers, Work Shirts, Leggings, Aprons in the Nature of Garments, Capes, Hoods, Waterproof Gloves, Sleeves, Infants' Pants, and Ponchos, All Made of Waterproofed Fabric, Such as Silk.
Claims use since Sept. 1, 1908.

Ser. No. 249,802. ORCHID IMPORTING CORPORATION, New York, N. Y. Filed May 31, 1927.



No claim is made to the exclusive use of the words "Prima Quality" and "Felt Crush" apart from the mark as shown in the drawing.
For Bodies for Ladies' Hats.
Claims use since on or about Apr. 15, 1927.

Ser. No. 249,927. SAFETY GLASS AND XETAL PRODUCTS, LIMITED, Stapleford, England. Filed June 2, 1927.

XETAL

For Boots, Shoes, and Slippers Constructed of a Combination of Fabric and Rubber or a Combination of Fabric, Rubber, and Leather.
Claims use since November, 1920.

Ser. No. 251,943. THE ARMSTRONG CATOR COMPANY, Baltimore, Md. Filed July 13, 1927.

PARIS Brookfield BALTIMORE

Applicant disclaims the right to the exclusive use of the geographical expressions "Paris" and "Baltimore."
For Women's Hats and Hat Linings.
Claims use since July 1, 1927.

Ser. No. 252,551. CONSOLIDATED MILLINERY COMPANY, Chicago, Ill. Filed July 26, 1927.



DIANA

For Ladies' and Misses' Hats, Excluding Fur Caps and Hats.
Claims use since June 15, 1927.

Ser. No. 258,604. ROCHESTER MANUFACTURING CO., Los Angeles, Calif. Filed Dec. 7, 1927.

HOLLYMODE

The words "Fashioned for Hollywood, Los Angeles, and Trade-Mark" are hereby disclaimed apart from the mark as shown on the drawing. The lining on the drawing indicates shading only.
For Trousers and Knickers.
Claims use since Nov. 23, 1927.

Ser. No. 260,670. THE BAMBERGER-REINTHAL COMPANY, Cleveland, Ohio. Filed Jan. 26, 1928.

Frigid-Wear

No claim is made to the exclusive use of the word "Wear," which constitutes part of the trade-mark.

For Knitted Caps for Men, Women, and Children; Mufflers, Skirts for Outer Wear, Scarfs, and Sweaters.

Claims use since about Jan. 20, 1928.

Ser. No. 261,182. FANTL BROTHERS & LEWIS, Chicago, Ill. Filed Feb. 4, 1928.

Sprints

For Women's and Children's Silk and Cotton Textile Underwear.

Claims use since Feb. 1, 1928.

Ser. No. 263,342. PERRIN GLOVE COMPANY, INC., New York, N. Y. Filed Mar. 17, 1928.

LAVALEX

For Leather Gloves.

Claims use since November, 1920.

Ser. No. 263,558. THE OCEAN BATHING SUIT CO., New York, N. Y. Filed Mar. 21, 1928.



The lining appearing on the drawing is used merely for shading purposes and is not intended to indicate a certain color. The words "Bathing Suits" are disclaimed apart from the mark as shown on the drawing.

For Bathing Suits.

Claims use since on or about Jan. 6, 1928.

Ser. No. 264,045. PERRIN GLOVE COMPANY, INC., New York, N. Y. Filed Mar. 30, 1928.

CROMEX

For Leather Gloves.

Claims use since December, 1922.

Ser. No. 264,091. FANTL BROTHERS & LEWIS, Chicago, Ill. Filed Mar. 31, 1928.

Sportees

For Women's and Children's Athletic Silk, Rayon, and Cotton Textile Underwear.

Claims use since Feb. 2, 1928.

Ser. No. 264,118. THE NEWCOMER GLOVE COMPANY, Toledo, Ohio. Filed Mar. 31, 1928.



Applicant disclaims the use of the word "Gloves" apart from the representation shown.

For Jersey, Leather-Palm, and Canvas Gloves.

Claims use since Sept. 1, 1927.

Ser. No. 264,480. ROBERTSON BROTHERS COMPANY, South Bend, Ind. Filed Apr. 6, 1928.

Ro Jean!

Robertson Bros Co

SOUTH BEND INDIANA.

The name "Robertson Brothers Company" and the geographical term "South Bend, Indiana" are disclaimed as part of trade-mark.

For Silk and Woolen Hosiery of All Kinds, Suits and Coats for Men and Women; Women's Dresses, and Children's Dresses and Coats.

Claims use since Sept. 1, 1927.

Ser. No. 265,836. GEORGE GLASER, doing business as Paramount Shoe Store, Scranton, Pa. Filed May 3, 1928.

GLASER'S

GOOD-GRIP COMBINATION

FITS THE NARROW HEEL

The words "Combination" and "Fits the Narrow Heel" are disclaimed apart from the mark as shown.

For Shoes Made of Leather, Fabric, Rubber, and Combinations of These Materials.

Claims use since Apr. 25, 1927.

Ser. No. 266,591. J. JACOBY COMPANY, Los Angeles, Calif. Filed May 18, 1928.

SIERRA

For Leather and Fabric Belts Used as Garment Supporters; Men's and Boys' Pajamas and Nightshirts; Men's and Boys' Knitted Sweater Coats; Men's and Boys' Dress, Negligee, and Work Shirts; Garters and Suspenders; Men's, Boys', and Children's Knitted and Textile Underwear and Hosiery.

Claims use since Dec. 21, 1920.

Ser. No. 267,270. NATURES RIVAL CO., Chicago, Ill. Filed May 31, 1928.

Tip-Top Teddy

The word "Teddy" does not form a part of the registration sought apart from the mark shown in the drawing.

For Combination of Brassière, Girdle, and Teddy.

Claims use since Mar. 24, 1928.

Ser. No. 267,301. GIMBEL BROTHERS, INC., New York, N. Y., Philadelphia, Pa., Milwaukee, Wis., and Pittsburgh, Pa. Filed June 1, 1928.

THREE-ATT DRESSES

$8.88

No claim is made to the word "Dresses" and "$8.88" apart from the mark shown in the drawing.

For Children's, Misses', Girls', and Women's Dresses.

Claims use since Apr. 12, 1928.

Ser. No. 267,697. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed June 8, 1928.

JONQUIL

For Women's and Misses' Nightgowns, Chemises, Princess Slips, Bloomers, Step-ins in the Nature of Underdrawers, Petticoats, Drawers, Bandeaux, Girdles, and Corsets.

Claims use since about May 20, 1927.

Ser. No. 267,836. COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass. Filed June 11, 1928.

Hi-Style

No claim is made to the word "Style" apart from the mark shown in the drawing.

For Leather Boots and Shoes.

Claims use since Dec. 1, 1923.

Ser. No. 267,839. THE HAGERSTOWN SHOE AND LEGGING CO., Hagerstown, Md. Filed June 11, 1928.



No claim is made to the representation of a shoe except in the association shown. The vertical lining on the drawing indicates the color red, and the diagonal lining indicates the color brown. The mark is not limited to any particular color.

For Boots and Shoes Made Principally of Leather.
Claims use since June 4, 1928.

Ser. No. 268,129. ADORA KNITWEAR CO. INC., New York, N. Y. Filed June 16, 1928.

ADORA

For Knitted Wear for Infants and Children, Comprising Sacques, Sweaters, Slip-ons, Caps, Leggings; Sets Consisting of Caps, Sacques, and Bootees; Shawls, Bootees, Mittens, and Knitted Sweaters for Men and Women.
Claims use since August, 1923.

Ser. No. 268,342. THE FAIR, Chicago, Ill. Filed June 20, 1928.



For Girls', Misses', and Women's Boots, Shoes, and Oxfords Constructed of Leather, Fabric, and/or Rubber and/or of Combinations of These Materials.
Claims use since Feb. 1, 1928.

Ser. No. 268,343. THE FAIR, Chicago, Ill. Filed June 20, 1928.



No claim is made to the word "Shoes" apart from the mark as shown in the drawing.

For Boys', Youths', and Men's Boots, Shoes, and Oxfords Constructed of Leather, Fabric, and/or Rubber and/or of Combinations of These Materials.
Claims use since Feb. 1, 1928.

Ser. No. 268,500. FELIX A. LACKS, doing business as Amform, New York, N. Y. Filed June 22, 1928.

GOSMEUR STRAW

No claim is made to the exclusive use of the word "Straw" apart from the mark as shown.
For Ladies' Hats and Hoods for Ladies' Hats.
Claims use since on or about Dec. 1, 1927.

Ser. No. 269,009. WELLS-LAMONT MANUFACTURING CO., Minneapolis, Minn. Filed July 2, 1928.



WHITE MULE
IT'S TOUGH

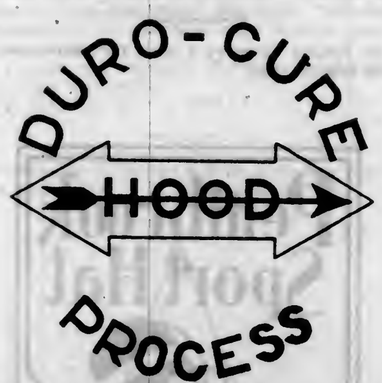
Exclusive use of the phrase "It's Tough" is disclaimed apart from the mark as shown.
For Workingmen's Gloves of Leather-Faced Cotton.
Claims use since Nov. 1, 1927.

Ser. No. 269,118. THE HECHT CO., Washington, D. C., doing business as The Hub, Baltimore, Md. Filed July 5, 1928.

"Stoutfella"

For Boys' Suits and Overcoats in All Sizes.
Claims use since Apr. 3, 1928.

Ser. No. 269,191. HOOD RUBBER COMPANY, Watertown, Mass. Filed July 6, 1928.



Applicant disclaims the right to the exclusive use of the words "Cure Process."
For Rubber Soles for Shoes.
Claims use since June 14, 1928.

Ser. No. 269,266. EULA S. STANDISH, Providence, R. I. Filed July 7, 1928.

FORMAID

For Brassières, Bandeaux, and Corselets.
Claims use since Feb. 16, 1928.

Ser. No. 269,334. W. & A. J. TURNER, LTD., Ipswich, England. Filed July 9, 1928.



No claim is made to the exclusive use of the word "Brand" which appears on the drawing.
For Leggings, Gaiters, and Spats.
Claims use since May 1, 1927.

Ser. No. 269,439. MAY MALONE, Anderson, Ind. Filed July 12, 1928.

Martha-May

For Women's Dresses.
Claims use since Apr. 1, 1928.

Ser. No. 269,635. CARTWRIGHT, INC., Minneapolis, Minn. Filed July 16, 1928.



For Women's Dresses.
Claims use since about Jan. 1, 1925.

Ser. No. 269,733. LEO LEVISON, doing business as Lady Jane Manufacturing Co., New York, N. Y. Filed July 17, 1928.

LADY JANE

For Merchandise—Namely, Aprons, Ladies' House Dresses, and Kimonos.
Claims use sine May 1, 1927.

Ser. No. 269,763. AUSTIN SHOE COMPANY, San Francisco, Calif. Filed July 18, 1928.

DOWNS

The drawing is lined for shading purposes only, and color forms no feature of the mark.
For Leather Shoes.
Claims use since on or about Oct. 1, 1927.

Ser. No. 270,004. ARNHEIMER INC., New York, N. Y. Filed July 23, 1928.



The name "Arnheimer Inc." and the address "31 W. 27 St. N. Y. C." is disclaimed apart from the mark as shown on the drawing.

For Ladies' and Children's Coats; Ladies' Suits, Gowns, Capes, Jackets, Wraps, Robes, Scarfs, Neck Pieces, and Muffs Made Wholly or Partly of Fur; Men's Coats Made Wholly or Partly of Fur, and Textile Wraps.

Claims use since Dec. 31, 1926.

Ser. No. 270,026. HOOD RUBBER COMPANY, Watertown, Mass. Filed July 23, 1928.



For Rubber Boots and Shoes, Rubber Overshoes, and Rubber-Soled Canvas Shoes.

Claims use since Nov. 14, 1925.

Ser. No. 270,091. NUNNALLY & MCCREA COMPANY, Atlanta, Ga. Filed July 24, 1928.

SUPER-QUALITY

Applicant disclaims exclusive use of the word "Quality."

For Trousers for Men and Boys.

Claims use since Apr. 15, 1927.

Ser. No. 270,101. V & S PANTS CO., San Antonio, Tex. Filed July 24, 1928.



For Men's Breeches, Trousers, Coats, Vests, Leggings, Puttees, and Knickers.

Claims use since October, 1919.

Ser. No. 270,211. SHAFT-PIERCE SHOE COMPANY, Faribault, Minn. July 26, 1928.

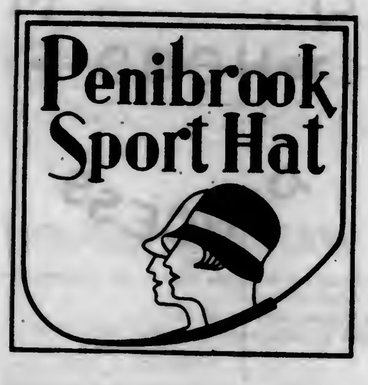
BALL BEARING
HEEL SEAT

No claim is made to the words "Heel Seat" apart from the mark shown in the drawing.

For Shoes Made from Leather, Fabric, Rubber, and Combinations of These Materials.

Claims use since July 19, 1928.

Ser. No. 270,242. EVERITT & GRAF, INC., Milwaukee, Wis. Filed July 27, 1928.

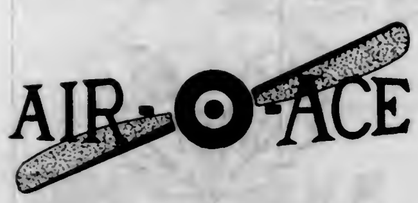


No registration rights are claimed for the words "Sport Hat" except in association with the other features of the mark.

For Ladies' Hats.

Claims use since about June 1, 1928.

Ser. No. 270,373. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed July 31, 1928.



For Leather Coats, Leather Vests, Leather Helmets, and Caps for Men, Women, and Children, and Leather Trousers for Men; Also Leather and Other Garments—Namely, Wind-Breaker Coats for Men, Women, and Children; Also Golf Jackets for Men and Women; and Short Coats, Full-Length Coats, and Three-Quarter-Length Coats for Women.

Claims use since about July 27, 1928.

Ser. No. 270,449. THE TAYLOR-BRAMLEY COMPANY, Chicopee Falls, Mass. Filed Aug. 1, 1928.



The trade-mark consists of the picture of Douglas Taylor Giles, a living individual. The words "Tailormade" and "Registered" are disclaimed apart from the mark as shown on the drawing.

For Infants' and Children's Clothing—Namely, Shirts, Knickers, and Bellybands.

Claims use since July 1, 1926.

Ser. No. 270,493. I. MILLER & SONS, INC., New York and Long Island City, N. Y. Filed Aug. 2, 1928.



For Hosiery.

Claims use since May 25, 1928.

Ser. No. 270,544. G., H. & E. FREYDBERG, INC., New York, N. Y. Filed Aug. 3, 1928.

DUS-TITE

For Hats, Caps, Blouses, Aprons, House Dresses, and Kimonos for Women and Children.

Claims use since July 30, 1928.

Ser. No. 270,594. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed Aug. 4, 1928.

STASHEEN

For Dress and Work Shirts.

Claims use since about June 10, 1928.

Ser. No. 270,629. DAVID & BLUM, INC., New York, N. Y. Filed Aug. 6, 1928.



No claim to the exclusive use of the expression "Made in France" nor to the expression "Reg."

For Leather Gloves.

Claims use since Apr. 1, 1928.

Ser. No. 270,632. FLANNOCRAT MFG. CO., INC., Buffalo, N. Y. Filed Aug. 6, 1928.

Flanno-Jack

For Sport Blouses for Men, Women, and Children, Made Out of Flannel Cloth and Knitted Yarns.

Claims use since December, 1924.

Ser. No. 270,633. FLANNOCRAT MFG. COMPANY INC., Buffalo, N. Y. Filed Aug. 6, 1928.

Flanno-Jill

For Sport Blouses for Men, Women, and Children, Made Out of Flannel Cloth and Knitted Yarns.

Claims use since December, 1924.

Ser. No. 270,638. RICHARD MACINTOSH, Los Angeles, Calif. Filed Aug. 6, 1928.

Studio

For Men's Coats, Pants, Vests, Riding Breeches, Knicker Pants, and Overcoats.

Claims use since on or about Sept. 12, 1927.

Ser. No. 270,733. WASH-A-BILL CAP CO., South Bend, Ind. Filed Aug. 7, 1928.

WASH-A-BILL

For Caps of All Kinds Worn by Men and Boys.

Claims use since Oct. 25, 1925.

Ser. No. 270,793. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Aug. 9, 1928. Under 10-year proviso.

ALEXANDRE

For Gloves Made of Leather and Fabric and of Combinations of the Same.

Claims use since Jan. 1, 1866.

Ser. No. 270,804. SHARTENBERG & ROBINSON CO., New Haven, Conn. Filed Aug. 9, 1928.

Lady Claire

For Leather Shoes.
Claims use since Feb. 15, 1913.

Ser. No. 271,265. EDWARD OLSON, Brooklyn, N. Y. Filed Aug. 18, 1928.

The Health Vest E.O.

The words "The Health Vest" are disclaimed apart from the other features of the mark.
For Knitted Woolen Vest Designed to be Worn to Protect the Body from Being Affected by Abrupt Changes in the Weather and to Permit a Better Circulation Around the Vital Organs.
Claims use since Mar. 1, 1928.

Ser. No. 271,283. WOLF & DESHAUER COMPANY, Fort Wayne, Ind. Filed Aug. 18, 1928.

WanD
FLAME LINE

For Hosiery.
Claims use since July 9, 1928.

Ser. No. 271,312. PECK & PECK, New York, N. Y. Filed Aug. 20, 1928.

DROMEDARY

For Outer Garments for Men and Women, as Follows; Coats and Suits.–
Claims use since Feb. 1, 1928, as to coats and since Aug. 1, 1928, as to suits.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 262,315. HERMAN I. LIPPARD, doing business as Rapitag Needle Company, Philadelphia, Pa. Filed Feb. 27, 1928.

RAPITAG

For Needles Used by Hand.
Claims use since Sept. 15, 1927.

Ser. No. 267,732. YE PILGRIM RUG SHOP, Long Beach, Calif. Filed June 8, 1928.



For Fabrics Stamped or Stencilled for Embroidery or as a Backing on Which Tapestry and Hooked Rugs May be Made.
Claims use since Mar. 1, 1925.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 271,974. ALLEN R. MITCHELL & SON, Philadelphia, Pa. Filed Sept. 6, 1928.

Torriday

For Woolen and Worsted Goods and Combinations Thereof in the Piece.
Claims use since Aug. 3, 1928.

Ser. No. 272,269. JAS. A. HEARN & SON, New York, N. Y. Filed Sept. 12, 1928.

HEARNCRAFT

For Reversible Fiber Rugs.
Claims use since March, 1928.

Ser. No. 272,280. WM. T. KNOTT COMPANY INC., New York, N. Y. Filed Sept. 12, 1928.

First Lady

For Sheets, Pillowcases, and Sheetings.
Claims use since July 1, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 192,884. ARROWSMITH MANUFACTURING COMPANY, New York, N. Y. Filed Feb. 27, 1924.

FEATHER-WEIGHT



No claim is made to the term "Feather-Weight" apart from the mark shown.
For Supports for the Arches and Other Parts of the Feet.
Claims use since February, 1905.

Ser. No. 261,696. THE COLUMBUS DENTAL MANUFACTURING CO., Columbus, Ohio. Filed Feb. 15, 1928.

Steele's

The mark consists of the facsimile signature "Steele's."
For Furnace for Glazing Which is Adapted for Use in Dental Work.
Claims use since Jan. 20, 1928.

Ser. No. 268,852. ALBERT P. DE SANNO, Jr., doing business as Albert P. de Sanno & Son, Philadelphia, Pa. Filed June 29, 1928.

LIGHTNING

For Dental Abrading Discs and Strips.
Claims use since about June, 1912.

Ser. No. 270,397. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio. Filed July 31, 1928.

NYMPH

For Druggists' Rubber Sundries—Namely, Hot-Water Bottles, Fountain Syringe, Douche Syringe, Breast Pumps, Invalid Cushions, and Rubber Gloves.
Claims use since on or about May 15, 1928.

Ser. No. 270,512. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio. Filed Aug. 2, 1928.

"Laurel"

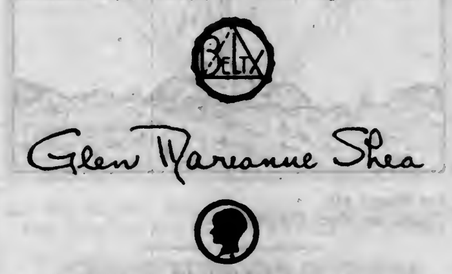
For Druggists' Rubber Sundries—Namely, Hot-Water Bottles, Fountain Syringe, Douche Syringe, Breast Pumps, Invalid Cushions, and Rubber Gloves.
Claims use since on or about May 15, 1928.

Ser. No. 271,236. ETHELBERT HUGH DUNLAP, doing business as Dunlap Chemical Company, Memphis, Tenn. Filed Aug. 18, 1928.

MOTHER'S FIRST AID KIT DUNLAP'S

The words "First Aid Kit" and the surname "Dunlap's" are disclaimed apart from the mark as shown in the drawing.
For First-Aid Kit.
Claims use since Feb. 2, 1928.

Ser. No. 271,317. GLADYS M. SHEA, doing business as Glen Marianne Shea, Chicago, Ill. Filed Aug. 20, 1928.



No claim is made to the word "Belt" appearing on the drawing except in connection with the mark as shown. The silhouette appearing in the drawing is that of Miss Gladys M. Shea; also the facsimile signature.
For Sanitary Belts and Parts Thereof.
Claims use since about Apr. 26, 1928.

Ser. No. 272,077. HARRY LE ROY CROOKER, New York, N. Y. Filed Sept. 8, 1928.

MIRACLE

For Hot-Water Bottles.
Claims use since Aug. 14, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 269,796. MILLER BECKER COMPANY, Cleveland, Ohio. Filed July 18, 1928.

ACE

Applicant owns registered Trade-Mark Certificate No. 218,562, issued Sept. 28, 1926.
For Carbonated, Nonalcoholic Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since December, 1926, or prior thereto.

Ser. No. 270,739. THE CALIWINE PRODUCTS CO., INC., New York, N. Y. Filed Aug. 8, 1928.

CALIWINE

For Grape Concentrate in Liquid Form for Use as a Non-alcoholic Beverage.
Claims use since Aug. 2, 1928.

Ser. No. 272,143. CORAL ROCK GINGER ALE CO., INC., Jacksonville, Fla. Filed Sept. 10, 1928.



For Ginger Ale.
Claims use since October, 1927.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 209,516. WHOLE GRAIN WHEAT COMPANY, Chicago, Ill. Filed Feb. 12, 1925.

Liquid Life

For Canned Food Product Made of a Combination of Vegetables.
Claims use since Apr. 1, 1923.

Ser. No. 238,628. TWIN CITY WHOLESALE GROCER CO., St. Paul, Minn. Filed Oct. 14, 1926.

Serv-well

For Canned Fruits, Canned Vegetables, Canned Fish; Coffee; Condiments—Namely, Catsup, Mayonnaise, Salad Dressing, Mustard, Pickles, Vinegar; Cereals—Namely, Rolled Oats; Food-Flavoring Extracts; Canned Jellies; Canned Meat—Namely, Dried Beef; Prepared Mustard, Olives, Olive Oil, Peanut Butter.
Claims use since July 2, 1926.

Ser. No. 246,139. WASHBURN CROSBY COMPANY, Minneapolis, Minn. Filed Mar. 21, 1927.

WASHBURN'S GOLD MEDAL

Applicant is the owner of registrations No. 28,479 and No. 61,763.
For Stock and Poultry Feed.
Claims use since Mar. 10, 1927.

Ser. No. 247,613. FAIR PLAY CARAMELS, INC., Johnson City, N. Y. Filed Apr. 18, 1927.

FAIR PLAY HONEYS

No claim is made to the word "Honeys" apart from the mark as shown.
For Candy.
Claims use since Apr. 4, 1921.

Ser. No. 248,101. WILLIAM GRAF, doing business as Southwark Beverage & Products Co., Philadelphia, Pa. Filed Apr. 28, 1927.

SUNSET

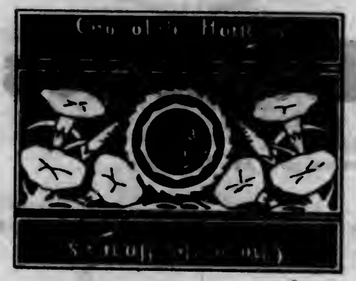
For Malt Syrups for Food Purposes.
Claims use since May 16, 1923.

Ser. No. 251,849. MEIER & FRANK CO., Portland, Oreg. Filed July 11, 1927.

PICK O' THE PACK

For Walnuts in Their Natural State.
Claims use since Oct. 1, 1924.

Ser. No. 252,696. FAIR PLAY CARAMELS, INC., Johnson City, N. Y. Filed July 29, 1927.



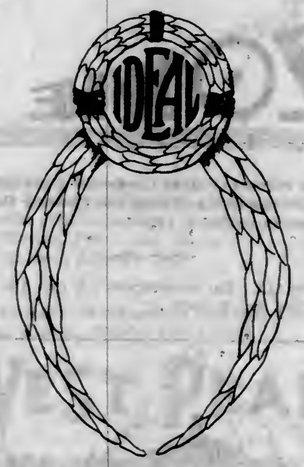
No claim is made to the words "Chocolate Honeys" apart from the mark as shown.
For Candy.
Claims use since July 15, 1927.

Ser. No. 260,857. STANDARD TILTON MILLING CO., St. Louis, Mo., Dallas, Tex., and Alton, Ill. Filed Jan. 28, 1928.



The words "Lindy, Highest Patent Flour, Stanard Tilton Milling Co., Alton, St. Louis, Dallas," do not constitute an integral part of the registration sought of the foregoing trade-mark.
For Wheat Flour.
Claims use since December, 1927.

Ser. No. 260,907. GIOSUÈ PALMISANI, doing business as G. Palmisani & Company, New York, N. Y. Filed Jan. 30, 1928.



For Olive Oil.
Claims use since Aug. 1, 1925.

Ser. No. 264,369. THE FLEISCHMANN COMPANY, Cincinnati, Ohio, and New York, N. Y. Filed Apr. 5, 1928.

STOX

For Vegetable Product Suitable for Use in Place of Meat Stock for Soups and Bouillons or as a Meatlike Flavor in Other Dishes.
Claims use since Mar. 2, 1928.

Ser. No. 265,456. THE TAUBER CO., Uncasville, Montville, Conn. Filed Apr. 26, 1928.

TAUBERLAK HONEY MALT TONIC

No claim is made to the words "Honey Malt Tonic" except in association with the mark as shown.
For Food-Beverage Powder Comprising a Mixture of Honey, Malt, Powdered Milk, and Chocolate to be Added to Milk or Water or Other Liquids in Varying Quantities.
Claims use since Jan. 1, 1928.

Ser. No. 265,671. MAURY-COLE COMPANY, Memphis, Tenn. Filed Apr. 30, 1928.

RED STRIP

For Coffee.
Claims use since Feb. 16, 1926.

Ser. No. 265,852. HUBERT A. MYERS, doing business as Hubert A. Myers Candy Co., Toledo, Ohio. Filed May 3, 1928.

ZOWIE

For Toys Formed of Hard Candy and Chewing Gum for Ultimate Consumption as Candy and Chewing Gum.
Claims use since Dec. 9, 1927.

Ser. No. 266,119. BACON, STICKNEY & CO., INC., Albany, N. Y. Filed May 9, 1928.



No claim is made to the words "Port of Albany" and "Brand" apart from the mark shown in the drawing.
For Coffee, Teas, and Spices.
Claims use since Apr. 15, 1928.

Ser. No. 266,863. KEELEY'S CANDIES, INC., Madison, Wis. Filed May 23, 1928.

OLD FASHION

For Box Candy and Candy Packages.
Claims use since Apr. 25, 1913.

Ser. No. 267,640. DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928.

NILE

For Canned Salmon.
Claims use since July, 1908.

Ser. No. 267,644. DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928.

DEWDROP

For Canned Salmon.
Claims use since July, 1915.

Ser. No. 268,356. THE DEGLET NOOR DATE GROWERS ASSOCIATION, Indio, Calif. Filed June 20, 1928.

Desert Dainties

For Fresh Dates.
Claims use since Apr. 16, 1928.

Ser. No. 269,287. GORDON BAKING COMPANY, Detroit, Mich. Filed July 9, 1928.



Applicant disclaims the word "Cakes" apart from the mark as shown. The lining indicates the colors red and green.
For Cakes and Cookies.
Claims use since about June 18, 1928.

Ser. No. 269,608. RUMFORD CHEMICAL WORKS, Providence, R. I. Filed July 14, 1928.



For Dough Conditioner and Gluten Developer—Namely, Preparations Used in Bread and Pastry Making to Improve the Condition of the Same.
Claims use since about May 7, 1924.

Ser. No. 270,356. SUNSET GOLD PACKING COMPANY, Oakland, Calif. Filed July 30, 1928.

Sunset Gold

For Pure Citrus-Fruit Juices for Food Purposes.
Claims use since July 10, 1928.

Ser. No. 270,510. A. SAHADI & CO., INC., New York, N. Y. Filed Aug. 2, 1928.



For Candy Confection.
Claims use since July 17, 1928.

Ser. No. 270,673. S. GUMPERT CO. INC., New York, N. Y. Filed Aug. 6, 1928.

Buddies

For Cakes.
Claims use since July 26, 1927.

Ser. No. 270,969. JOSEPH M. LOVE, doing business as Blossom-Kones Shop, Sandusky, Ohio. Filed Aug. 13, 1928.



The word "Kones" and the representation of the goods are disclaimed apart from the mark shown in the drawing.
For Ice-Cream Confection.
Claims use since May 4, 1928.

Ser. No. 271,098. WENATCHEE DISTRICT CO-OPERATIVE ASSOCIATION, Wenatchee, Wash. Filed Aug. 15, 1928.

ArcticICED

The word "Iced" does not form a part of the registration sought apart from the mark shown on the drawing.
For Fresh Fruit—Namely, Cherries, Prunes, Plums, Apricots, Peaches, Pears, and Apples.
Claims use since June 21, 1928.

Ser. No. 271,099. WENATCHEE DISTRICT CO-OPERATIVE ASSOCIATION, Wenatchee, Wash. Filed Aug. 15, 1928.



The word "Iced" does not form a part of the registration sought apart from the mark shown in the drawing.
For Fresh Fruit—Namely, Cherries, Prunes, Plums, Apricots, Peaches, Pears, and Apples.
Claims use since June 21, 1928.

Ser. No. 271,219. WASHINGTON CANNERS CO-OPERATIVE, Vancouver, Wash. Filed Aug. 17, 1928.

WEST PEAK

For Canned Fruits.
Claims use since Apr. 15, 1928.

Ser. No. 271,286. THOMAS B. BISHOP COMPANY, San Francisco and San Ramon, Calif. Filed Aug. 20, 1928.

SAN RAMON
BRAND

The descriptive word "Brand" is disclaimed.
For Fresh Fruit—Namely, Fresh Pears.
Claims use since July 26, 1928.

Ser. No. 271,378. THE CRACKER JACK CO., Chicago, Ill. Filed Aug. 22, 1928.

Recipe

For Candy.
Claims use since about July 25, 1928.

Ser. No. 271,472. HUGO BRUMI, Alliance, Ohio. Filed Aug. 24, 1928.



The words "Malt Syrup" are disclaimed apart from the mark shown in the drawing.
For Malt Syrup.
Claims use since Dec. 5, 1925.

Ser. No. 271,509. PURITAN CANDY COMPANY, Milwaukee, Wis. Filed Aug. 24, 1928.



The pictorial representation of the shape of the goods is disclaimed apart from the mark as shown. The conventional lining shown in the drawing is used to designate the color red.

For Candy.

Claims use since July 19, 1928.

Ser. No. 271,585. WYANDOTTE OLIVE GROWERS ASSOCIATION, Oroville, Calif. Filed Aug. 25, 1928.

OROVILLE MISSION

For Canned Olives.

Claims use since July 18, 1928.

Ser. No. 271,606. KALALOCK CANNING COMPANY, Centralia, Wash. Filed Aug. 27, 1928.

RUBY BEACH

DE-LI-CI-OUS

RAZOR CLAM TENDERLOINS

"The Best of the Clam"

No claim is made to the words "Delicious Razor Clam, The Best of the Clam" apart from the mark shown in the drawing.

For Canned Clams.

Claims use since Mar. 1, 1928.

Ser. No. 271,608. KINGSWAY PRODUCTS, INC., Tampa, Fla. Filed Aug. 27, 1928.

KINGSWAY

For Eggs.

Claims use since Sept. 1, 1925.

Ser. No. 271,696. GEORGE A. GEORGIADES, doing business as Aviation Food Manufacturing Co., Houston, Tex. Filed Aug. 29, 1928.

AVIATION



For Mayonnaise Salad Dressing and Maple Syrup.

Claims use since Apr. 1, 1928.

Ser. No. 271,710. SEAPORT COFFEE CO., INC., Houston, Tex. Filed Aug. 29, 1928.

CAMPER

For Coffee.

Claims use since June 21, 1927.

Ser. No. 271,806. R. HICKMOTT CANNING CO., San Francisco, Calif. Filed Aug. 31, 1928.

Signature

R. Hickmott

The signature appearing in the drawing is a facsimile of that of Mr. R. Hickmott.

For Canned Asparagus.

Claims use since Jan. 1, 1892.

Ser. No. 271,824. ALFRED J. RICHEY, Miami, Fla. Filed Aug. 31, 1928.

JARDIN BRAND — THE GARDEN BRAND — GUARANTEED PRODUCTS

The descriptive words "Brand" and "Guaranteed Products" are disclaimed apart from the mark shown in the drawing.

For Fresh and Canned Fruits and Vegetables and Guava Jelly.

Claims use since June 1, 1928.

Ser. No. 271,860. C. D. KENNY CO., Baltimore, Md., and Indianapolis, Ind. Filed Sept. 1, 1928.

KENNY'S 7 O'KLOCK

For Coffee.

Claims use since May 21, 1928.

Ser. No. 271,861. LIBERTY ORCHARDS COMPANY, Cashmere, Wash. Filed Sept. 1, 1928.

APPLUM

For Fruit Spread.

Claims use since July 11, 1928.

Ser. No. 271,938. THE F. J. MCCANN PACKING CO., INC., Salinas, Calif. Filed Sept. 5, 1928.

HAYWIRE

For Fresh Deciduous Fruits, Fresh Vegetables, and Fresh Citrus Fruits.

Claims use since July 26, 1928.

Ser. No. 271,944. ROSEN BROS. & PINCUS, New York, N. Y. Filed Sept. 5, 1928.

Pink Rose

For Canned Fish, Canned Fruit, Canned Vegetables, and Pickles.

Claims use since Aug. 5, 1928.

Ser. No. 271,946. S. A. SEXTON, Exeter, Calif. Filed Sept. 5, 1928.

SALLY



For Fresh Deciduous Fruits.

Claims use since Feb. 1, 1928.

Ser. No. 271,950. H. F. STEINKRAUS, doing business as Steinkraus Mercantile Co., Bertha, Minn. Filed Sept, 5, 1928.

LAND O'LAKES

For Wheat Flour.

Claims use since July 28, 1928.

Ser. No. 272,040. LOUIS MARKS, North Rose, N. Y. Filed Sept. 7, 1928.

MOONSHYNE

For Fresh Celery, Fresh Carrots, and Fresh Onions.

Claims use since Aug. 1, 1928.

Ser. No. 272,044. MANNIELLO BROTHERS & MAYERSOHN, INC., New York, N. Y. Filed Sept. 7, 1928.



For Fresh Apples and Pears.

Claims use since April, 1927.

Ser. No. 272,083. W. E. JACOBS CANDY CO., Chicago, Ill. —Filed Sept. 8, 1928.

HOOP-ER-DOO

For Candy.
Claims use since June 20, 1924.

Ser. No. 272,084. NATIONAL GROCERY COMPANY, Jersey City, N. J. Filed Sept. 8, 1928.

ROSEMARIE

For Tea.
Claims use since June 23, 1928.

Ser. No. 272,088. WILLIAMSON CANDY COMPANY, Chicago, Ill. Filed Sept. 8, 1928.

Oh!-Oh!

For Candy.
Claims use since June 20, 1928.

Ser. No. 272,125. BAY CHEMICAL COMPANY, INC., New Orleans, La. Filed Sept. 10, 1928.

DICAPHO

For Stock and Poultry Food.
Claims use since Aug. 18, 1928.

Ser. No. 272,149. EMBRO IMPORT COMPANY, New York, N. Y. Filed Sept. 10, 1928.

EMBRO

For Canned Tomatoes.
Claims use since Aug. 23, 1928.

Ser. No. 272,245. AMERICAN CHICLE COMPANY, Long Island City, New York, N. Y. Filed Sept. 12, 1928.



Applicant disclaims the right to the exclusive use of the representation of an outline of a container and to the use of the wording appearing upon the drawing with the exception of the words "Adams, Chiclets," and "American Chicle Company" apart from the mark as shown.
For Chewing Gum.
Claims use since July 12, 1927.

Ser. No. 272,287. J. S. KRABNOW, Fresno, Calif. Filed Sept. 12, 1928.

Fourmost

For Fresh Deciduous Fruits.
Claims use since Aug. 11, 1928.

Ser. No. 272,296. MITCHELL SILLIMAN COMPANY, Salinas, Calif. Filed Sept. 12, 1928.

Big Q

For Fresh Vegetables.
Claims use since Apr. 12, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 261,677. THE KARKARE PRODUCTS COMPANY, Lincoln, Nebr. Filed Feb. 14, 1928.



The word "Karkare" is claimed only in the form and relationship shown in the drawing and is disclaimed apart from the mark as shown. The words "A Product" are also disclaimed.
For Kits Containing Materials and Preparations for Maintaining and Rejuvenating the Appearance of Automobiles, Including Top Finish, Top Repair Outfits, Dust Cloths, Cloth Pads, Polish Cloths, Nickel Polish, Polish and Cleaner for Lacquer, Enamel, and Glass, Scratch Remover, Rain Vision Compound, Upholstery Cleaner, Touch-Up Enamel, Brushes, Soap, Gloves, Whisk Broom, a Book of Instructions, and Other Articles for the Purpose Specified, All in the Kit or Container.
Claims use since June 1, 1927.

Ser. No. 266,561. ALLON SKIPSEY, St. Albans, England. Filed May 17, 1928.

TENAFIRMA

For A Carpet or Rug Lining of a Rubber-Treated Material.
Claims use since June 1, 1926.

Ser. No. 268,348. F. S. CARR COMPANY, Boston, Mass. Filed June 20, 1928.

CHAMO

For Artificial Leather.
Claims use since January, 1928.

Ser. No. 270,712. EDWARD A. MOSS, Cleveland, Ohio. Filed Aug. 7, 1928.

LUMINAD

For Reflector Signs.
Claims use since June 19, 1928.

Ser. No. 270,857. NATIONAL ROAD MARKER, INC., Chicago, Ill. Filed Aug. 10, 1928.

OUT OF THE AIR AND INTO THE PAVEMENT

For Road Markers.
Claims use since Mar. 15, 1928.

Ser. No. 270,858. NATIONAL ROAD MARKER, INC., Chicago, Ill. Filed Aug. 10, 1928.

AND THEY TURNED TO RUBBER

No registration rights are claimed for the word "Rubber" apart from the mark shown on the drawing.
For Road Markers.
Claims use since Mar. 23, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 23, 1928.

248,383. PREPARATION FOR DANDRUFF, FALLING HAIR, AND DRY SCALP. CLABE RUSSELL, Fort Worth, Tex.

Filed January 3, 1928. Serial No. 259,046. PUBLISHED JULY 24, 1928. Class 6.

248,384. CANNED FISH—NAMELY, CANNED SARDINES. GARNEAU & DE BRUYN, INC., New York, N. Y.

Filed December 23, 1927. Serial No. 259,282. PUBLISHED AUGUST 14, 1928. Class 46.

248,385. REPAIR PARTS FOR AIR-BRAKE EQUIPMENT—NAMELY, BOLTS, NUTS, STUDS, VALVE BUSHINGS, VALVES, COTTERS, SEATS, SWIVELS, SCREWS, STEMS, VALVE SPRINGS, VALVE CAPS, COCKS, COCK HANDLES, COCK KEYS, COCK CAPS, NIPPLES, COUPLINGS, VALVE CAGES, VALVE CAPS, VALVE CASES, VALVE PLATES, KEYS, WASHERS, AND PLUGS. BRAKE EQUIPMENT AND SUPPLY COMPANY, Chicago, Ill.

Filed December 19, 1927. Serial No. 259,100. PUBLISHED AUGUST 14, 1928. Class 13.

248,386. DEVICES FOR SHOWING AND WARNING OF ABNORMAL CONDITIONS IN COMBUSTION-ENGINE COOLING SYSTEMS. THE ANDERSON COMPANY, Gary, Ind.

Filed December 19, 1927. Serial No. 259,095. PUBLISHED AUGUST 14, 1928. Class 26.

248,387. STOMACH TONIC, INDIGESTION REMEDY, AND A PREPARATION FOR THE TREATMENT OF ACID STOMACH. RAYMOND O. MURPHY, doing business as The Stillwater Remedy Co., Stillwater, Minn.

Filed December 16, 1927. Serial No. 259,013. PUBLISHED JULY 24, 1928. Class 6.

248,388. GARMENT PRESSES. FIDELITY LAUNDRY MACHINERY & ENGINEERING COMPANY, Minneapolis, Minn.

Filed December 14, 1927. Serial No. 258,900. PUBLISHED MARCH 20, 1928. Class 24.

248,389. GAS WATER HEATERS. W. B. BASTIAN MANUFACTURING COMPANY, Los Angeles, Calif.

Filed December 5, 1927. Serial No. 258,450. PUBLISHED AUGUST 14, 1928. Class 34.

248,390. PORCELAIN ARTICLES USED FOR INSULATING PURPOSES IN ELECTRICAL DEVICES, APPLIANCES, AND FITTINGS—NAMELY, HIGH-TENSION INSULATORS, LOW-TENSION INSULATORS, SWITCH BASES, CUT-OUTS, FUSES, FUSE BLOCKS, RECEPTACLES, SOCKETS, PLUGS, ROSETTES, KNOBS, TUBES, CLEATS, BUSHINGS, BUTTONS, AND REFRACTORY PORCELAIN PARTS FOR ELECTRICAL HEATING APPLIANCES. PORCELAIN PRODUCTS, INC., Findlay, Ohio.

Filed December 1, 1927. Serial No. 258,286. PUBLISHED AUGUST 7, 1928. Class 21.

248,391. MEDICINAL GOLD PREPARATION FOR THE TREATMENT OF TUBERCULOSIS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.

Filed November 30, 1927. Serial No. 258,222. PUBLISHED JULY 24, 1928. Class 6.

248,392. PHOTOGRAPHS AND PHOTOGRAPHIC PRINTS. THE DOW DRUG COMPANY, Cincinnati, Ohio.

Filed November 28, 1927. Serial No. 258,117. PUBLISHED AUGUST 7, 1928. Class 38.

248,393. INSECTICIDE. WILLIAM H. BAXLEY, doing business as Florida Chemical Corp., Jacksonville, Fla.

Filed November 17, 1927. Serial No. 257,657. PUBLISHED AUGUST 7, 1928. Class 6.

248,394. FLOUR MEAL AND FOODSTUFFS MADE THEREFROM—NAMELY, BREAD, BISCUITS, CAKE, AND PREPARED CEREAL FOODS (LIQUID OR SOLID) FOR CONSUMPTION BY MEN AND HORSES, CATTLE, PIGS, AND POULTRY. VITAMINS LIMITED, London, England, assignor to Vitamins (1928) Limited, London, England.

Filed November 12, 1927. Serial No. 257,517. PUBLISHED JULY 31, 1928. Class 46.

248,395. DENTAL PREPARATION USED IN THE TREATMENT OF PYORRHEA, ALVEOLARIS, ULCERATED AND BLEEDING GUMS, AND AS AN ANTISEPTIC AND GENERAL PROPHYLAXIS. E. I. RODGERS, doing business as Irving Chemical Company, San Antonio, Tex.

Filed November 8, 1927. Serial No. 257,255. PUBLISHED JULY 31, 1928. Class 6.

248,396. TELEPHONE MEMORANDUM SUPPORT. JOHN E. LIND, Washington, D. C.

Filed November 8, 1927. Serial No. 257,241. PUBLISHED AUGUST 14, 1928. Class 37.

248,397. TOOTH PASTE FOR CHILDREN. AMERA CHEMICAL CO., Minneapolis, Minn.

Filed October 31, 1927. Serial No. 256,803. PUBLISHED JULY 24, 1928. Class 6.

248,398. LIXIVIAL LIQUIDS AND POWDERS FOR WASHING STOCKINGS, SOCKS, AND LINGERIE. SOCIÉTÉ ANONYME ETABLISSEMENTS MULVIDSON, Paris, France.

Filed September 28, 1927. Serial No. 255,357. PUBLISHED JULY 17, 1928. Class 4.

248,399. LUBRICATING OILS. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.

Filed September 22, 1927. Serial No. 255,079. PUBLISHED AUGUST 7, 1928. Class 15.

248,400. HOUSEHOLD DISINFECTANT. MIDWAY CHEMICAL COMPANY, Chicago, Ill.

Filed September 6, 1927. Serial No. 254,411. PUBLISHED AUGUST 7, 1928. Class 6.

248,401. AUTOMATIC MACHINERY FOR THE PRODUCTION OF ICE-CREAM CONES. MORRIS D. KOPPLE, New York, N. Y.

Filed September 3, 1927. Serial No. 254,354. PUBLISHED AUGUST 14, 1928. Class 23.

248,402. COSMETICS—NAMELY, FACE POWDER, FACE CREAM, AND ROUGE. C. W. BEGGS, SONS & CO., Chicago, Ill.

Filed September 3, 1927. Serial No. 254,343. PUBLISHED JULY 24, 1928. Class 6.

248,403. ISINGLASS. CAPE ANN ISINGLASS COMPANY, Boston, Mass.

Filed July 5, 1928. Serial No. 269,085. PUBLISHED AUGUST 14, 1928. Class 46.

248,404. CHOCOLATE-FLAVORED MILK. THE CANTON PURE MILK COMPANY, Canton, Ohio.

Filed July 5, 1928. Serial No. 269,082. PUBLISHED AUGUST 14, 1928. Class 46.

248,405. OLIVE OIL. HENRY W. PEABODY & CO., New York, N. Y.

Filed July 3, 1928. Serial No. 269,035. PUBLISHED AUGUST 14, 1928. Class 46.

248,406. COLORS IN OIL, WHITE LEAD, AND COMBINATION WHITE LEAD. CAMEL LEAD, COLOR & CHEMICAL PRODUCTS MFG. CORP., Brooklyn, N. Y.

Filed June 30, 1928. Serial No. 268,918. PUBLISHED AUGUST 14, 1928. Class 16.

248,407. DOUCHE APPLIANCES, SYRINGES, AND DOUCHE ATTACHMENTS THEREFOR. ALL-KLENZ SALES CO. INC., Allentown, Pa.

Filed June 26, 1928. Serial No. 268,668. PUBLISHED AUGUST 14, 1928. Class 44.

248,408. PEANUT BUTTER. MILES F. LIVERMORE, Brazil, Ind.

Filed June 21, 1928. Serial No. 268,454. PUBLISHED AUGUST 7, 1928. Class 46.

248,409. VARNISHES AND PAINT ENAMELS. WADSWORTH HOWLAND & CO. INCORPORATED, Boston, Mass.

Filed June 14, 1928. Serial No. 268,069. PUBLISHED AUGUST 7, 1928. Class 16.

248,410. METALLIC SHEET MATERIAL—NAMELY, ALUMINUM FOIL. UNITED STATES FOIL CO., Louisville, Ky.

Filed June 14, 1928. Serial No. 268,067. PUBLISHED AUGUST 7, 1928. Class 14.

248,411. PAINT ENAMELS AND VARNISHES. KNOX VARNISH COMPANY, Boston, Mass.

Filed June 13, 1928. Serial No. 267,968. PUBLISHED AUGUST 7, 1928. Class 16.

248,412. A PAINT PRODUCT FOR CLEANING AND REJUVENATING VARNISHED OR PAINTED SURFACES. THE BENS' CHEMICAL COMPANY, Jackson, Mich.

Filed June 13, 1928. Serial No. 267,924. PUBLISHED AUGUST 7, 1928. Class 16.

248,413. PAINTS, PAINT ENAMELS, VARNISHES, AND LACQUERS. RINSHED-MASON CO., Detroit, Mich.

Filed June 11, 1928. Serial No. 267,860. PUBLISHED AUGUST 14, 1928. Class 16.

248,414. PAINTS, PAINT ENAMELS, VARNISHES, AND LACQUERS. RINSHED-MASON CO., Detroit, Mich.

Filed June 11, 1928. Serial No. 267,859. PUBLISHED AUGUST 14, 1928. Class 16.

248,415. MASSAGING OR MECHANICAL EXERCISING MACHINES WHICH ARE PRIMARILY DESIGNED FOR USE IN SANITARIUMS, ETC. SANITARIUM EQUIPMENT COMPANY, Battle Creek, Mich.

Filed June 8, 1928. Serial No. 267,725. PUBLISHED AUGUST 14, 1928. Class 44.

248,416. PAPER SPUTUM CUPS. JACOB KAUFFMAN, New York, N. Y.

Filed June 7, 1928. Serial No. 267,658. PUBLISHED AUGUST 14, 1928. Class 44.

248,417. CANE SYRUP. HARDAWAY-CARGILL CO., Columbus, Ga.

Filed June 7, 1928. Serial No. 267,653. PUBLISHED AUGUST 14, 1928. Class 46.

248,418. PASTE AND READY-MIXED PAINTS AND LACQUERS. W. JULE DAY, New York, N. Y.

Filed June 5, 1928. Serial No. 267,486. PUBLISHED AUGUST 7, 1928. Class 16.

248,419. INTERIOR AND EXTERIOR PAINT. ARNESTO PAINT COMPANY, INC., New York, N. Y.

Filed June 5, 1928. Serial No. 267,480. PUBLISHED AUGUST 7, 1928. Class 16.

248,420. TOOTHPICKS. PRATT-MALLORY COMPANY, Sioux City, Iowa.

Filed June 4, 1928. Serial No. 267,459. PUBLISHED AUGUST 7, 1928. Class 44.

248,421. BROOMS. PRATT-MALLORY COMPANY, Sioux City, Iowa.

Filed June 4, 1928. Serial No. 267,458. PUBLISHED AUGUST 7, 1928. Class 29.

248,422. CLEANING, DUSTING, AND POLISHING MOPS. ANNA E. BIENSTOCK, Newark, N. J.

Filed June 4, 1928. Serial No. 267,403. PUBLISHED AUGUST 7, 1928. Class 29.

248,423. IMPACT RECORDERS. JOHN B. BASKERVILLE, Roanoke, Va., assignor to Impactograph Corporation, Roanoke, Va., a Corporation of Virginia.

Filed May 7, 1928. Serial No. 266,014. PUBLISHED AUGUST 14, 1928. Class 26.

248,424. VISES AND SPRAYING OUTFITS COMPRISING AIR PUMPS, SPRAY GUNS, AIR PURIFIERS, AND ATTACHMENTS NECESSARY TO OPERATION FOR DOMESTIC AND INDUSTRIAL USES. DEMCO, INCORPORATED, Baltimore, Md.

Filed May 5, 1928. Serial No. 265,956. PUBLISHED AUGUST 14, 1928. Class 23.

248,425. SOAP. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.

Filed May 4, 1928. Serial No. 265,929. PUBLISHED AUGUST 7, 1928. Class 4.

248,426. BUTTER. GILES-CUMMINGS COMPANY, INC., Boston, Mass.

Filed May 2, 1928. Serial No. 265,789. PUBLISHED AUGUST 7, 1928. Class 46.

248,427. ENLARGED WINDOW ADVERTISING POSTERS. MAGILL-WEINSHEIMER COMPANY, Chicago, Ill.

Filed May 1, 1928. Serial No. 265,733. PUBLISHED AUGUST 14, 1928. Class 38.

248,428. CANDY CONFECTION ON A STICK. THE METRO CHOCOLATE CO. INC., Brooklyn, N. Y.

Filed April 25, 1928. Serial No. 265,393. PUBLISHED JULY 24, 1928. Class 46.

248,429. LIQUID-FUEL OILS AND LUBRICATING OILS FOR INTERNAL-COMBUSTION ENGINES. LEONARD T. GARDNER, doing business as Lindico Oil Co., Baltimore, Md.

Filed April 25, 1928. Serial No. 265,376. PUBLISHED AUGUST 7, 1928. Class 15.

248,430. MUSIC CHARTS AND MUSIC BOOKS PUBLISHED FROM TIME TO TIME. KOHLER & CHASE, doing business as Fun Method, San Francisco, Calif.

Filed April 23, 1928. Serial No. 265,277. PUBLISHED AUGUST 7, 1928. Class 38.

248,431. MOTOR FUEL OILS AND LUBRICANT OILS AND GREASES. THE PENNZOIL COMPANY, Los Angeles, Calif.

Filed April 18, 1928. Serial No. 265,065. PUBLISHED AUGUST 7, 1928. Class 15.

248,432. UMBRELLAS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.

Filed April 16, 1928. Serial No. 264,906. PUBLISHED JULY 10, 1928. Class 41.

248,433. PERFUMES, TOILET WATERS, BLEACH CREAM, BEAUTY CREAM, COLD CREAM, CLEANSING CREAM, REFRESHING CREAM, TISSUE CREAM, SKIN CREAM, FACE BLEACH POWDER, FOOT POWDER, NAIL POWDER, TALCUM POWDER, SACHETS, PERFUMED SALTS, BATH SALTS, SMELLING SALTS, TALC, NAIL CREAM, AND NAIL BLEACHES. THEODORE HOFFMAN, New York, N. Y.

Filed April 11, 1928. Serial No. 264,683. PUBLISHED JULY 24, 1928. Class 6.

248,434. CERTAIN NAMED TOYS, DOLLS, CHRISTMAS-TREE ORNAMENTS, AND GAMES. MARSHALL FIELD & COMPANY, Chicago, Ill.

Filed April 11, 1928. Serial No. 264,676. PUBLISHED AUGUST 7, 1928. Class 22.

248,435. CHEMICALS SUITABLE FOR THE DESTRUCTION OF WEEDS AND SIMILAR PLANTS. PHILIPP BAUER CO. INC., New York, N. Y.

Filed April 9, 1928. Serial No. 264,603. PUBLISHED JULY 24, 1928. Class 6.

248,436. RUBBER HOSE FOR STEAM, WATER, VACUUM, AND PNEUMATIC TOOL PURPOSES; RUBBER PACKING; AND RUBBER BELTING FOR CONVEYOR, ELEVATOR, AND TRANSMISSION USE. HAMILTON RUBBER MANUFACTURING COMPANY, Trenton, N. J.

Filed April 7, 1928. Serial No. 264,517. PUBLISHED AUGUST 14, 1928. Class 35.

248,437. JUVENILE AMUSEMENT DEVICES—NAMELY, GYM SETS, SLIDES FOR CHILDREN, ETC. THE AMERICAN-NATIONAL COMPANY, Toledo, Ohio.
Filed April 7, 1928. Serial No. 264,502. PUBLISHED AUGUST 7, 1928. Class 22.

248,438. ASTRINGENTS, BLEACH CREAMS, DRY ROUGES, ETC. A. P. BABCOCK COMPANY, New York, N. Y.
Filed April 7, 1928. Serial No. 264,489. PUBLISHED AUGUST 7, 1928. Class 6.

248,439. DENTAL PRODUCTS PRESENTED IN LIQUID FORM AND DESIGNED TO ASEPTICIZE DENTAL CARIES. ALFRED PETIT, Juan-Les-Pins, France.
Filed April 4, 1928. Serial No. 264,326. PUBLISHED JULY 24, 1928. Class 6.

248,440. MECHANICAL DIRECTION INDICATORS FOR MOTOR VEHICLES. THE PRESTO SIGNAL COMPANY, San Francisco, Calif.
Filed March 30, 1928. Serial No. 264,048. PUBLISHED AUGUST 14, 1928. Class 23.

248,441. SILVER POLISH AND SILVER-POLISHING POWDER, SHOE POLISH, DRY-CLEANING PASTE, SHOE CREAM; CLEANING FLUID FOR SHOES, HATS, AND CLOTH; WHITE-KID-CLEANSING CREAM, BUCK AND CANVAS CLEANSING CREAM; RENEW LIQUID AND POWDER FOR REMOVING SPOTS AND STAINS FROM SHOES; SHOE CLEANER, POWDER AND LIQUID; SHOE DRESSINGS, WHITE-FELT-HAT-CLEANING PASTE AND LIQUID, STRAW-HAT CLEANERS. STEPHEN M. PETCHELIS, doing business as Splendid Chemical Products Manufacturing Co., New York, N. Y.
Filed March 29, 1928. Serial No. 263,970. PUBLISHED AUGUST 7, 1928. Class 4.

248,442. COOPERAGE—NAMELY, WOODEN CASKS, BARRELS, KEGS, TUBS FOR PACKING, STORING, HANDLING, AND SHIPPING, BUCKETS, PAILS, LIQUID HOLDERS, LIQUID COOLERS, AND LIQUID DISPENSERS AND STAVES, HEADINGS, AND SHOOKS THEREFOR. PIONEER COOPERAGE CO., St. Louis, Mo.
Filed June 6, 1928. Serial No. 267,601. PUBLISHED AUGUST 14, 1928. Class 2.

248,443. SAFES AND METAL FILING CABINETS AND CLOSETS IN THE NATURE OF SAFES. JOSEPH SPECTOR, New York, N. Y.
Filed March 27, 1928. Serial No. 263,835. PUBLISHED AUGUST 14, 1928. Class 25.

248,444. COOPERAGE—NAMELY, WOODEN CASKS, BARRELS, KEGS, TUBS FOR PACKING, STORING, HANDLING, AND SHIPPING, BUCKETS, PAILS, LIQUID HOLDERS, LIQUID COOLERS, AND LIQUID DISPENSERS AND CONTAINERS, AND STAVES, HEADINGS, AND SHOOKS THEREFOR. PIONEER COOPERAGE CO., St. Louis, Mo.
Filed June 6, 1928. Serial No. 267,602. PUBLISHED AUGUST 14, 1928. Class 2.

248,445. PERIODICAL. MERCHANDISING PUBLISHING CORPORATION, St. Louis, Mo., Chicago, Ill., New York, N. Y.
Filed June 7, 1928. Serial No. 267,661. PUBLISHED AUGUST 7, 1928. Class 38.

248,446. MONTHLY MAGAZINE. AMATEUR CINEMA LEAGUE, INC., New York, N. Y.
Filed June 8, 1928. Serial No. 267,686. PUBLISHED AUGUST 7, 1928. Class 38.

248,447. GOLF BALLS. THE THOMAS AGENCY, Chicago, Ill.
Filed June 9, 1928. Serial No. 267,811. PUBLISHED AUGUST 7, 1928. Class 22.

248,448. MONTHLY MAGAZINE. ASSOCIATED PUBLISHING CO., INC., Los Angeles, Calif., Chicago, Ill., New York, N. Y.
Filed June 11, 1928. Serial No. 267,826. PUBLISHED AUGUST 7, 1928. Class 38.

248,449. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES, INCLUDING ORANGE, LEMON AND LIME, CREAM SODA, BIRCH BEER, CHERRY, GRAPE, ROOT BEER, LEMON SODA, STRAWBERRY, SARSAPARILLA, AND GINGER ALE, SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. THE BRIDGEPORT BOTTLING CO. INC., Bridgeport, Conn.
Filed June 11, 1928. Serial No. 267,830. PUBLISHED AUGUST 14, 1928. Class 45.

248,450. NONALCOHOLIC, MALTLESS SYRUPS AND FLAVORINGS FOR MAKING SOFT DRINKS. SMITH-JUNIOR COMPANY, INC., Rochester, N. Y.
Filed June 11, 1928. Serial No. 267,865. PUBLISHED AUGUST 14, 1928. Class 45.

248,451. NONALCOHOLIC, MALTLESS SYRUPS AND FLAVORINGS FOR MAKING SOFT DRINKS. SMITH-JUNIOR COMPANY, INC., Rochester, N. Y.
Filed June 11, 1928. Serial No. 267,866. PUBLISHED AUGUST 14, 1928. Class 45.

248,452. NONALCOHOLIC, MALTLESS SYRUPS AND FLAVORINGS FOR MAKING SOFT DRINKS. SMITH-JUNIOR COMPANY, INC., Rochester, N. Y.
Filed June 11, 1928. Serial No. 267,867. PUBLISHED AUGUST 14, 1928. Class 45.

248,453. NONALCOHOLIC, MALTLESS SYRUPS AND FLAVORINGS FOR MAKING SOFT DRINKS. SMITH-JUNIOR COMPANY, INC., Rochester, N. Y.
Filed June 11, 1928. Serial No. 267,868. PUBLISHED AUGUST 14, 1928. Class 45.

248,454. BACON. SWIFT CANADIAN COMPANY, LIMITED, Toronto, Ontario, Canada.
Filed June 11, 1928. Serial No. 267,873. PUBLISHED AUGUST 14, 1928. Class 46.

248,455. HAND-OPERATED PORTABLE AND STATIONARY FIRE-EXTINGUISHING APPARATUS AND PARTS THEREOF. AMERICAN-LA FRANCE AND FOAMITE CORPORATION, Elmira and New York, N. Y.
Filed June 12, 1928. Serial No. 267,884. PUBLISHED AUGUST 14, 1928. Class 23.

248,456. FRUIT PRESSES, FRUIT AND CIDER CRUSHERS, MACARONI MACHINES, AND KITCHEN EQUIPMENT, SUCH AS CATSUP MACHINES, MEAT GRINDERS, COFFEE ROASTERS, AND COFFEE MILLS. ANTHONY P. GIUNTA, doing business as Giunta Brothers Mfg. Co., Philadelphia, Pa.
Filed June 12, 1928. Serial No. 267,893. PUBLISHED AUGUST 14, 1928. Class 23.

248,457. GASOLINE AND GAS HEATERS. AMERICAN GAS MACHINE COMPANY INC., Albert Lea, Minn.
Filed June 13, 1928. Serial No. 267,916. PUBLISHED AUGUST 14, 1928. Class 34.

248,458. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. GOODY NECTAR COMPANY, Oklahoma City, Okla.
Filed June 13, 1928. Serial No. 267,950. PUBLISHED AUGUST 14, 1928. Class 45.

248,459. CREAMERY BUTTER. HARRY A. GORDHAMER, doing business as Minnetonka Creamery Co., Minneapolis, Minn.
Filed June 13, 1928. Serial No. 267,951. PUBLISHED AUGUST 7, 1928. Class 46.

248,460. LOCKS HAVING PROVISIONS FOR MAKING A RECORD UPON AN OPERATION OF THE LOCK. INTERNATIONAL TIME RECORDING COMPANY OF NEW YORK, Endicott, N. Y.
Filed June 13, 1928. Serial No. 267,961. PUBLISHED AUGUST 14, 1928. Class 25.

248,461. MONTHLY MAGAZINE. MACFADDEN PUBLICATIONS INCORPORATED, New York, N. Y.
Filed June 13, 1928. Serial No. 267,980. PUBLISHED AUGUST 7, 1928. Class 38.

248,462. MOVING-PICTURE PROJECTORS, CAMERAS, STEREOPTICONS, SCREENS FOR USE IN CONNECTION WITH PICTURE-PROJECTING APPARATUS, MOVING-PICTURE FILMS (POSITIVE AND NEGATIVE), AND LENSES FOR CAMERAS AND PICTURE-PROJECTING APPARATUS. THE DE VRY CORPORATION, Chicago, Ill.
Filed January 5, 1928. Serial No. 259,713. PUBLISHED AUGUST 14, 1928. Class 26.

248,463. MEDICAL PREPARATION FOR COUGH, WHOOPING COUGH, ASTHMA, BRONCHITIS, GRIPPE, AND LUNG TROUBLE. TEMMLER-WERKE VEREINIGTE CHEMISCHE FABRIKEN HERMANN TEMMLER, Berlin-Johannisthal, Germany.
Filed January 11, 1928. Serial No. 259,976. PUBLISHED JULY 24, 1928. Class 6.

248,464. FRUIT JUICES OF VARIOUS FLAVORS FOR BEVERAGE PURPOSES. THE KINGSWAY CORPORATION, Tampa, Fla.
Filed January 11, 1928. Serial No. 259,961. PUBLISHED AUGUST 14, 1928. Class 45.

248,465. FISHING RODS. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass.
Filed January 28, 1928. Serial No. 260,832. PUBLISHED AUGUST 7, 1928. Class 22.

248,466. TONIC FOR CONSTIPATION, RHEUMATISM, LUMBAGO, BACKACHE, BILIOUSNESS, IMPURE BLOOD, NEURALGIA, INDIGESTION, NERVOUSNESS, AND SLEEPLESSNESS. MRS. ESTHER LONG MCCARTY, doing business as McCarty Medicine Company, New Orleans, La.
Filed January 27, 1928. Serial No. 260,742. PUBLISHED AUGUST 7, 1928. Class 6.

248,467. PORTABLE FIRE EXTINGUISHERS. INTERNATIONALE FEUERLÖSCHER-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin-Charlottenburg, Germany.
Filed August 1, 1927. Serial No. 252,847. PUBLISHED AUGUST 14, 1928. Class 23.

248,468. NOTEBOOKS, TABLETS, LOOSE-LEAF BINDERS, LOOSE-LEAF FILLERS, EXAMINATION PAPER, DRAWING PAPER, MUSIC PAPER, ART PAPER, THEME PAPER, AND PENMANSHIP PAPER. JASPER SIPES CO., Oklahoma City, Okla.
Filed July 19, 1927. Serial No. 252,263. PUBLISHED AUGUST 7, 1928. Class 37.

248,469. LOTIONS AND CREAMS FOR BEAUTIFYING, CLEANSING, AND PRESERVING THE SKIN. CHALFONT PRODUCTS INCORPORATED, New York, N. Y.
Filed July 18, 1927. Serial No. 252,241. PUBLISHED AUGUST 7, 1928. Class 6.

248,470. GAS RANGES, GAS HOT PLATES, AND INDIVIDUAL DOMESTIC GAS-SUPPLY SYSTEMS SOLD AS UNITS. ANDES RANGE & FURNACE CORP., Geneva, N. Y.
Filed June 18, 1927. Serial No. 250,732. PUBLISHED AUGUST 14, 1928. Class 34.

248,471. SELF-RISING PREPARED FLOUR CONTAINING WHEAT FLOUR. DOUGHNUT MACHINE CORPORATION, New York, N. Y.
Filed June 4, 1927. Serial No. 250,017. PUBLISHED JULY 31, 1928. Class 46.

248,472. LIQUID PREPARATION FOR REFINISHING LEATHER. PEERLESS PRODUCTS CORPORATION, Clearwater, Fla.
Filed May 27, 1927. Serial No. 249,675. PUBLISHED AUGUST 14, 1928. Class 4.

248,473. MEDICINE FOR THE TREATMENT OF COLIC IN MULES AND HORSES. ETHELBERT HUGH DUNLAP, doing business as Dunlap Medicine Company, Memphis, Tenn.
Filed May 25, 1927. Serial No. 249,516. PUBLISHED JULY 24, 1928. Class 6.

248,474. CARPET SWEEPERS. C. F. HOVEY CO., Boston, Mass.
Filed April 28, 1927. Serial No. 248,104. PUBLISHED JUNE 7, 1927. Class 23.

248,475. NONMETALLIC COMPOUND FOR STOPPING LEAKS IN AUTOMOBILE RADIATORS. OUT WEST MANUFACTURING CO., Denver, Colo.
Filed April 18, 1927. Serial No. 247,630. PUBLISHED AUGUST 7, 1928. Class 6.

248,476. CANDIES. OTTO P. CATSIGIANIS, doing business as Blue Hill Candy Co., St. Louis, Mo., assignors to Blue Hill Candy Co., St. Louis, Mo., a Firm composed of Otto P. Catsigianis and John P. Catsigianis.
Filed April 11, 1927. Serial No. 247,260. PUBLISHED AUGUST 14, 1928. Class 46.

248,477. CANDY. GEORGE L. WALKER, doing business as The G. L. Walker Company, Easton, Md.
Filed March 16, 1927. Serial No. 245,875. PUBLISHED AUGUST 14, 1928. Class 46.

248,478. SOAPS, INCLUDING SHAVING STICKS. PAUL PETER MÜLHENS, doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenuber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany.
Filed December 29, 1926. Serial No. 242,107. PUBLISHED AUGUST 7, 1928. Class 4.

248,479. WRITING INK. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed December 15, 1926. Serial No. 241,500. PUBLISHED MARCH 8, 1927. Class 11.

248,480. AUTOMOBILE SUN CURTAINS AND STORM CURTAINS. THE KEMITEX PRODUCTS COMPANY, Akron, Ohio.
Filed December 2, 1926. Serial No. 240,863. PUBLISHED AUGUST 14, 1928. Class 19.

248,481. TRUNKS, TRAVELING BAGS, SUITCASES, TOILET CASES, POCKETBOOKS, BILL FOLDS, AND COIN PURSES. THE KEMITEX PRODUCTS COMPANY, Akron, Ohio.
Filed December 2, 1926. Serial No. 240,861. PUBLISHED AUGUST 7, 1928. Class 3.

248,482. APPARATUS FOR ASCERTAINING THE QUANTITY AND QUALITY OF FLUID IN AN EARTH STRATUM IN A WELL BORE. HOUSTON ENGINEERS, Houston, Tex.
Filed September 23, 1926. Serial No. 237,604. PUBLISHED AUGUST 14, 1928. Class 26.

248,483. GLUE. I. F. LAUCKS, INC., Seattle, Wash.
Filed June 22, 1926. Serial No. 233,615. PUBLISHED JULY 31, 1928. Class 5.

248,484. TOILET PREPARATIONS—NAMELY, FACIAL-TREATMENT PREPARATION IN THE FORM OF A JELLY. WILFRED LABORATORIES, INC., New York, N. Y.
Filed May 22, 1926. Serial No. 232,110. PUBLISHED JULY 24, 1928. Class 6.

248,485. BODY TONICS IN LIQUID FORM FOR TREATMENT OF GASTRITIS, HEARTBURN, INDIGESTION, BLOATING, AND GENERAL DEBILITY, AND A FEMALE TONIC IN LIQUID FORM FOR DERANGEMENTS OF THE FEMALE ORGANS. HILLIARD L. FIELDS, doing business as Israel Medicine Company, Hammond, Ind., and Detroit, Mich.
Filed November 9, 1925. Serial No. 223,027. PUBLISHED JULY 24, 1928. Class 6.

248,486. SHINGLES AND SHINGLE SLABS. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a Corporation of Maryland.
Filed October 16, 1924. Serial No. 203,930. PUBLISHED MAY 17, 1927. Class 12.

248,487. CREAM CHEESE. BREAKSTONE BROS., INC., New York, N. Y.
Filed June 17, 1924. Serial No. 198,699. PUBLISHED AUGUST 2, 1927. Class 46.

248,488. FRESH CITRUS FRUITS. ORANGE MUTUAL CITRUS ASSOCIATION, Orange, Calif.
Filed July 5, 1928. Serial No. 269,140. PUBLISHED AUGUST 14, 1928. Class 46.

248,489. CANNED FRUITS, CANNED VEGETABLES, AND DRIED FRUITS. E. A. MORRISON, INC., Los Angeles, Calif.
Filed July 5, 1928. Serial No. 269,134. PUBLISHED AUGUST 14, 1928. Class 46.

248,490. WALL PAPER. ROBERT F. HOBBS, INC., Beverly, N. J.
Filed July 5, 1928. Serial No. 269,119. PUBLISHED AUGUST 14, 1928. Class 37.

248,491. FERTILIZERS. GEORGIA CHEMICAL WORKS, Augusta, Ga.
Filed July 5, 1928. Serial No. 269,110. PUBLISHED AUGUST 14, 1928. Class 10.

248,492. CHEWING GUM AND CANDY. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed July 5, 1928. Serial No. 269,095. PUBLISHED AUGUST 14, 1928. Class 46.

248,493. FRESH GRAPES. COSTA BROTHERS, Stockton, Calif.
Filed July 5, 1928. Serial No. 269,092. PUBLISHED AUGUST 14, 1928. Class 46.

248,494. LAUNDRY WASHING MACHINES OF THE WRINGER TYPE. ALTORFER BROS. COMPANY, East Peoria, Ill.
Filed July 5, 1928. Serial No. 269,070. PUBLISHED AUGUST 14, 1928. Class 24.

248,495. LAUNDRY WASHING MACHINES OF THE CENTRIFUGAL-DRIER TYPE. ALTORFER BROS. COMPANY, East Peoria, Ill.
Filed July 5, 1928. Serial No. 269,069. PUBLISHED AUGUST 14, 1928. Class 24.

248,496. COFFEE. WILLIAM S. SCULL COMPANY, Camden, N. J.
Filed July 3, 1928. Serial No. 269,066. PUBLISHED AUGUST 14, 1928. Class 46.

248,497. CIGARETTES. THOMAS E. OVIESH, Altoona, Pa.
Filed July 3, 1928. Serial No. 269,054. PUBLISHED AUGUST 14, 1928. Class 17.

248,498. CANNED FISH—NAMELY, CANNED SALMON. KELLEY-CLARKE CO., Seattle, Wash.
Filed July 3, 1928. Serial No. 269,053. PUBLISHED AUGUST 14, 1928. Class 46.

248,499. CIGARS. STANDARD CIGAR COMPANY, Pittsburgh, Pa.
Filed July 3, 1928. Serial No. 269,041. PUBLISHED AUGUST 14, 1928. Class 17.

248,500. COIL CHAIN, CRANE CHAIN, DREDGE CHAIN, STUD CHAIN, LOG CHAINS, STAY CHAINS, POLE CHAINS, STRETCHER CHAINS, MACHINE CHAINS, TIRE CHAINS, AND OTHER CHAINS USED IN HARDWARE AND SADDLERY LINES. CARR CHAIN WORKS INC., Troy, N. Y.
Filed July 3, 1928. Serial No. 269,016. PUBLISHED AUGUST 14, 1928. Class 13.

248,501. GOLF CLUBS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed July 2, 1928. Serial No. 269,012. PUBLISHED AUGUST 7, 1928. Class 22.

248,502. GOLF CLUBS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed July 2, 1928. Serial No. 269,011. PUBLISHED AUGUST 7, 1928. Class 22.

248,503. INTERNAL-COMBUSTION ENGINES. CHRYSLER CORPORATION, Detroit, Mich.
Filed July 2, 1928. Serial No. 268,966. PUBLISHED AUGUST 14, 1928. Class 23.

248,504. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS—VIZ, GINGER ALE, ROOT BEER, CREAM, SODA, AND VARIOUS FLAVORS OF FRUITS AND BERRIES. CEDAR RAPIDS BOTTLING WORKS, Cedar Rapids, Iowa.
Filed July 2, 1928. Serial No. 268,965. PUBLISHED AUGUST 14, 1928. Class 45.

248,505. TOILET PAPER. CLARKE PAPER COMPANY, Wheeling, W. Va.
Filed June 30, 1928. Serial No. 268,915. PUBLISHED AUGUST 14, 1928. Class 37.

248,506. RAZOR BLADES. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed June 29, 1928. Serial No. 268,875. PUBLISHED AUGUST 14, 1928. Class 23.

248,507. CANDY. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio.
Filed June 29, 1928. Serial No. 268,872. PUBLISHED AUGUST 14, 1928. Class 46.

248,508. CANDY. WALTER BIRK CANDY COMPANY, Chicago, Ill.
Filed June 29, 1928. Serial No. 268,842. PUBLISHED AUGUST 14, 1928. Class 46.

248,509. CANNED PEAS. YOUNGLOVE GROCERY CO., Tacoma, Wash.
Filed June 28, 1928. Serial No. 268,832. PUBLISHED AUGUST 14, 1928. Class 46.

248,510. CIGARS. A. SANTAELLA & CO., INC., New York, N. Y.
Filed June 27, 1928. Serial No. 268,753. PUBLISHED AUGUST 14, 1928. Class 17.

248,511. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS—VIZ, GINGER ALE. ST. PAUL BOTTLING COMPANY, St, Paul, Minn.
Filed June 27, 1928. Serial No. 268,752. PUBLISHED AUGUST 14, 1928. Class 45.

248,512. AUTOMOBILE ACCESSORIES — NAMELY, SHOCK ABSORBERS. HOUDE ENGINEERING CORPORATION, Buffalo, N. Y.
Filed June 26, 1928. Serial No. 268,694. PUBLISHED AUGUST 14, 1928. Class 19.

248,513. AUTOMOBILE ACCESSORIES — NAMELY, SHOCK ABSORBERS. HOUDE ENGINEERING CORPORATION, Buffalo, N. Y.
Filed June 26, 1928. Serial No. 268,693. PUBLISHED AUGUST 14, 1928. Class 19.

248,514. BREAD. LILL CANNON, Bowersville, Ga.
Filed June 26, 1928. Serial No. 268,675. PUBLISHED AUGUST 7, 1928. Class 46.

248,515. WATERPROOF AUTO TOP DRESSING. RICHARD W. BOWLER, Bellingham, Wash.
Filed June 26, 1928. Serial No. 268,674. PUBLISHED AUGUST 14, 1928. Class 4.

248,516. ELASTIC SUPPORTERS, BANDAGES, AND BELTS, AND OTHER NAMED ARTICLES OF SIMILAR NATURE. ETABLISSEMENTS TEXTILES DE PFETTERHOUSE, Pfetterhouse, France.
Filed June 1, 1928. Serial No. 267,300. PUBLISHED AUGUST 7, 1928. Class 44.

248,517. PAINTS, VARNISHES, LACQUERS AND WALL SIZINGS. ACME WHITE LEAD & COLOR WORKS, Detroit, Mich.
Filed May 28, 1928. Serial No. 267,105. PUBLISHED AUGUST 14, 1928. Class 16.

248,518. WOOD CLEANING AND POLISHING FLUID. STEVEN HARDY, New York, N. Y.
Filed May 24, 1928. Serial No. 266,930. PUBLISHED AUGUST 7, 1928. Class 16.

248,519. AUTO CLEANER AND POLISH, AND OTHER NAMED PAINT PRODUCTS. WM. FRANK GRIFFIS, doing business as X-It Laboratories, Cleveland, Ohio.
Filed May 24, 1928. Serial No. 266,927. PUBLISHED AUGUST 7, 1928. Class 16.

248,520. SHEET STEEL AND STEEL ALLOYS. THE EASTERN ROLLING MILL COMPANY, Baltimore, Md.
Filed May 18, 1928. Serial No. 266,587. PUBLISHED AUGUST 7, 1928. Class 14.

248,521. VARNISH, STAIN, COMBINATION OF VARNISH AND STAIN, AND PAINT ENAMEL. BERRY BROTHERS, INCORPORATED, Detroit, Mich.
Filed May 18, 1928. Serial No. 266,576. PUBLISHED AUGUST 14, 1928. Class 16.

248,522. LACQUERS, REDUCERS, READY-MIXED PAINT, AND PRIMERS. BERRY BROTHERS, INCORPORATED, Detroit, Mich.
Filed May 18, 1928. Serial No. 266,575. PUBLISHED AUGUST 14, 1928. Class 16.

248,523. WATERPROOFING PAINT FOR CANVAS AND FABRICS. THE AMERICAN WATERPROOFING COMPANY, Cincinnati, Ohio.
Filed May 18, 1928. Serial No. 266,572. PUBLISHED AUGUST 7, 1928. Class 16.

248,524. MACARONI. INDEPENDENT MACARONI CO. INC., doing business as Independent Macaroni M'f'g. Co., Mount Vernon, N. Y.
Filed May 16, 1928. Serial No. 266,468. PUBLISHED AUGUST 7, 1928. Class 46.

248,525. ARCH SUPPORTS. SHOECRAFT SHOP, INC., New York, N. Y.
Filed May 5, 1928. Serial No. 265,992. PUBLISHED AUGUST 7, 1928. Class 44.

248,526. EXERCISING MACHINES DESIGNED FOR THERAPEUTIC TREATMENT, AND ELECTRIC BATH CABINETS. SANITARIUM EQUIPMENT COMPANY, Battle Creek, Mich.
Filed April 27, 1928. Serial No. 265,502. PUBLISHED AUGUST 14, 1928. Class 44.

248,527. PICKLES; CONDIMENTS—NAMELY, PREPARED MUSTARD AND HORSE-RADISH; CHOW-MAY SANDWICH SPREAD, SALAD DRESSING, SWEET RELISH, SOUR ONIONS, SWEET ONIONS, SWEET CHOWCHOW, SOUR CHOWCHOW, AND THOUSAND ISLAND DRESSING. THE WIDLAR COMPANY, Cleveland, Ohio.
Filed April 9, 1928. Serial No. 264,624. PUBLISHED AUGUST 14, 1928. Class 46.

248,528. CERTAIN NAMED PAINT PRODUCTS. JOHN LUCAS & CO., INC., Philadelphia, Pa.
Filed March 30, 1928. Serial No. 264,033. PUBLISHED AUGUST 14, 1928. Class 16.

248,529. HAND PRINTING WATER COLOR FOR PRINTING FROM WOOD BLOCKS AND LINOLEUM CUTS. GÜNTHER WAGNER, Hanover, Germany.
Filed March 21, 1928. Serial No. 263,572. PUBLISHED AUGUST 14, 1928. Class 16.

248,530. GOLF IRONS AND GOLF CLUBS. WIMBAR, INC., New York, N. Y.
Filed March 15, 1928. Serial No. 263,249. PUBLISHED JULY 31, 1928. Class 22.

248,531. LINSEED OIL. THOMAS HUBBUCK & SON, LIMITED, London, England.
Filed March 9, 1928. Serial No. 262,851. PUBLISHED AUGUST 7, 1928. Class 16.

248,532. SURGICAL AND DENTAL INSTRUMENTS—NAMELY, FORCEPS, PESSARIES, FINGER-NAIL DRILLS, AND METALLIC NIPPLE SHIELDS. J. SKLAR MANUFACTURING CO., New York, N. Y.
Filed January 27, 1928. Serial No. 260,761. PUBLISHED AUGUST 14, 1928. Class 44.

248,533. APPLIANCES FOR STIMULATING THE SKIN AND MUSCULAR TISSUES. LYNNE ARLEY, INC., New York, N. Y.
Filed January 20, 1928. Serial No. 260,395. PUBLISHED AUGUST 14, 1928. Class 44.

248,534. FRESH CITRUS AND DECIDUOUS FRUITS. ROCKY HILL CORPORATION, Exeter, Calif.
Filed October 1, 1927. Serial No. 255,532. PUBLISHED DECEMBER 20, 1927. Class 46.

248,535. FURNITURE POLISH AND WAX PRODUCTS FOR FLOORS AND WOODWORK. MIDWAY CHEMICAL COMPANY, Chicago, Ill.
Filed September 6, 1927. Serial No. 254,412. PUBLISHED AUGUST 7, 1928. Class 16.

248,536. MAGAZINE PUBLISHED BIMONTHLY. DELL PUBLISHING COMPANY, New York, N. Y.
Filed May 19, 1928. Serial No. 266,649. PUBLISHED AUGUST 7, 1928. Class 38.

248,537. SPICED BONELESS PIG'S FEET AND PICKLED SLICED TONGUE. THE KROGER GROCERY AND BAKING CO., Cincinnati, Ohio.
Filed May 7, 1928. Serial No. 266,033. PUBLISHED AUGUST 7, 1928. Class 46.

248,538. EGGS. PENOBSCOT BEEF & PROVISION CO., also doing business as Central Market Co., Inc., Bangor, Me.
Filed May 7, 1928. Serial No. 266,043. PUBLISHED JULY 31, 1928. Class 46.

248,539. WEIGHING SCALES, WEIGHING MACHINES, WEIGHING APPARATUS, COUNTING MACHINES, DYNAMOMETERS, BALANCE-TESTING MACHINES, AND INSTRUMENTS FOR MEASURING TENSION, RESILIENCE, STRENGTH OF MATERIAL, RESISTANCE TO DISTORTION, AND MOISTURE CONTENT. TOLEDO SCALE COMPANY, Toledo, Ohio.
Filed May 7, 1928. Serial No. 266,057. PUBLISHED AUGUST 14, 1928. Class 26.

248,540. ELECTRICAL SUPPLIES CONSISTING OF CONDUITS, BELLS, BUZZERS, WIRE, AND INSULATING TAPE. REVERE ELECTRIC CO., Chicago, Ill.
Filed May 9, 1928. Serial No. 266,148. PUBLISHED AUGUST 7, 1928. Class 21.

248,541. MONTHLY PUBLICATION. STOODY COMPANY, Whittier, Calif.
Filed May 9, 1928. Serial No. 266,154. PUBLISHED AUGUST 7, 1928. Class 38.

248,542. BLANK BOOK FOR FAMILY RECORDS. MAUD EDLA MOODY, Austin, Tex.
Filed May 12, 1928. Serial No. 266,342. PUBLISHED AUGUST 14, 1928. Class 37.

248,543. SALVE FOR EXTERNAL APPLICATION IN THE TREATMENT OF INFLAMMATIONS AND ERUPTIONS OF THE SKIN AND MUCOUS MEMBRANE AND IN THE TREATMENT OF CROUP, SORE THROAT, CATARRH, AND LIKE AFFLICTIONS INVOLVING OR RESULTING FROM CONGESTION. THE MENTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y.
Filed May 14, 1928. Serial No. 266,386. PUBLISHED JULY 24, 1928. Class 6.

248,544. CHRISTMAS-TREE-LIGHTING OUTFITS; ELECTRIC DECORATIVE DEVICES—NAMELY, ELECTRIC-LIGHTING FIXTURES AND REFLECTORS, MINIATURE ELECTRIC SOCKETS, PLUGS, AND RECEPTACLES, ELECTRIC CANDELABRA, AND ELECTRIC LAMPS. NOMA ELECTRIC CORPORATION, New York, N. Y.
Filed May 14, 1928. Serial No. 266,394. PUBLISHED AUGUST 7, 1928. Class 21.

248,545. PAPER TOWELS. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif.
Filed May 15, 1928. Serial No. 266,417. PUBLISHED JULY 10, 1928. Class 37.

248,546. ALBUMS. THE HOUSH COMPANY, INC., Boston, Mass.
Filed May 15, 1928. Serial No. 266,427. PUBLISHED AUGUST 7, 1928. Class 37.

248,547. PHONOGRAPHS. THE Q R S COMPANY, Chicago, Ill.
Filed May 18, 1928. Serial No. 266,618. PUBLISHED AUGUST 7, 1928. Class 36.

248,548. BOARD GAME. ZULU TOY MANUFACTURING COMPANY, INC., Battle Creek, Mich.
Filed May 18, 1928. Serial No. 266,634. PUBLISHED AUGUST 7, 1928. Class 22.

248,549. TOILET PAPER, PAPER TOWELS, AND PAPER NAPKINS. HOBERG PAPER AND FIBRE COMPANY, Green Bay, Wis.
Filed May 17, 1928. Serial No. 266,537. PUBLISHED AUGUST 14, 1928. Class 37.

248,550. BASE-METAL TRUCK-CAR AND SHIPPING-CASE SEALS, SEALS FOR CONTAINERS AND PACKAGES, AND SEALS FOR TAGS. E. J. BROOKS AND COMPANY, New York, N. Y.
Filed May 18, 1928. Serial No. 266,578. PUBLISHED AUGUST 7, 1928. Class 25.

248,551. NEWSPAPERS INCLUDING FOREIGN AND DOMESTIC NEWS ITEMS, CARTOONS, COMIC STRIPS, CONTRIBUTIONS, ARTICLES ON RADIO, ON INVESTMENTS, ON SPORTS, ON BRIDGE LESSONS, BOOK REVIEWS, SHORT STORIES, SERIAL STORIES, AND ILLUSTRATIONS FOR THE FOREGOING. THE CHICAGO DAILY NEWS, INC., Chicago, Ill.
Filed May 18, 1928. Serial No. 266,581. PUBLISHED AUGUST 7, 1928. Class 38.

248,552. TOILET PAPER, PAPER TOWELS, AND PAPER NAPKINS. HOBERG PAPER AND FIBRE COMPANY, Green Bay, Wis.
Filed May 17, 1928. Serial No. 266,536. PUBLISHED AUGUST 14, 1928. Class 37.

248,553. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. J. H. LOVE, doing business as Love Bottling Co., Pawhuska, Okla.
Filed May 19, 1928. Serial No. 266,674. PUBLISHED AUGUST 14, 1928. Class 45.

248,554. GASOLINE. BLUE BIRD CHEMICAL COMPANY, Los Angeles, Calif.
Filed May 22, 1928. Serial No. 266,784. PUBLISHED AUGUST 7, 1928. Class 15.

248,555. GERMICIDE, ANTISEPTIC, AND DEODORANT POWDER PUT UP IN COLORED CAPSULES BUT NOT INCLUDING WHITE OR COLORLESS CAPSULES. AMERICAN DRUG & CHEMICAL CO., Minneapolis, Minn.
Filed May 17, 1928. Serial No. 266,506. PUBLISHED JULY 24, 1928. Class 6.

248,556. BIBS, BUSHINGS, CAPS, STEAM SQUARE-HEAD COCKS, STOP AND WASTE COCKS, COUPLINGS, L's, T's, GAGES, NUT LOCKS FOR COUPLINGS AND OTHER PARTS, NIPPLES, PLUGS, UNIONS, AND VALVES, ALL OF WHICH ARE METAL FITTINGS FOR METAL PIPES AND THE LIKE. THE A. & F. BROWN COMPANY, Elizabethport, N. J.
Filed June 1, 1928. Serial No. 267,295. PUBLISHED AUGUST 14, 1928. Class 13.

248,557. HAND AND POWER OPERATED SPRAYERS, SPRAY PUMPS, PUMPS, FIRE PUMPS, SPRAY GUNS, AND AIR BRUSHES. D. B. SMITH & COMPANY, INC., Utica, N. Y.
Filed May 22, 1928. Serial No. 266,832. PUBLISHED AUGUST 14, 1928. Class 23.

248,558. CLEANER FOR PAINTED AND VARNISHED SURFACES, BATHTUBS, LAVATORIES, AND TOILETS, REFRIGERATORS, DISHES, AND GLASSWARE, LINOLEUMS, OILCLOTH, TERRA COTTA TILE EXTERIORS, AND STATUARY. HANNAH A. PORTER, doing business as Pandora Products Co., East Fitchburg, Mass.
Filed June 1, 1928. Serial No. 267,314. PUBLISHED AUGUST 7, 1928. Class 4.

248,559. WALL PAPER. STAMFORD WALL PAPER COMPANY, INCORPORATION, Stamford, Conn.
Filed June 1, 1928. Serial No. 267,323. PUBLISHED AUGUST 14, 1928. Class 37.

248,560. ELECTRIC DRILLING SETS SOLD AS A UNIT COMPRISING THE PARTS THEREOF AND THE CASE THEREFOR. THE BLACK & DECKER MANUFACTURING CO., Towson, Md.
Filed June 2, 1928. Serial No. 267,336. PUBLISHED AUGUST 14, 1928. Class 23.

248,561. SPARK PLUGS. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed June 4, 1928. Serial No. 297,414. PUBLISHED AUGUST 7, 1928. Class 21.

248,562. WEEKLY PUBLICATION. PEOPLES OPINION PRINTING CO., Valley City, N. Dak.
Filed May 31, 1928. Serial No. 267,273. PUBLISHED AUGUST 14, 1928. Class 38.

248,563. FISHING LINES. FINLAYSON, BOUSFIELD & CO., LTD., Johnstone, Scotland.
Filed May 31, 1928. Serial No. 267,248. PUBLISHED AUGUST 7, 1928. Class 22.

248,564. RADIATOR ENCLOSURES. STEELCRAFT COVERATOR CO., INC., Brooklyn and New York, N. Y.
Filed May 29, 1928. Serial No. 267,217. PUBLISHED AUGUST 14, 1928. Class 32.

248,565. FRICTION CIGAR AND CIGARETTE LIGHTERS. WALES NOVELTIES CORPORATION, New York, N. Y.
Filed May 28, 1928. Serial No. 267,168. PUBLISHED AUGUST 14, 1928. Class 34.

248,566. POULTRY FEEDS AND STOCK FEEDS. RUDY-PATRICK SEED COMPANY, Kansas City, Mo.
Filed May 28, 1928. Serial No. 267,146. PUBLISHED JULY 31, 1928. Class 46.

248,567. PERIODICALS—NAMELY, A PERIODICAL PUBLISHED FROM TIME TO TIME. RUMFORD CHEMICAL WORKS, Providence, R. I.
Filed May 25, 1928. Serial No. 267,013. PUBLISHED AUGUST 14, 1928. Class 38.

248,568. INDUSTRIAL GAS AND OIL BURNING HEATING FURNACES AND PARTS THEREFOR, SUCH AS FABRICATED-STEEL GAS AND OIL BURNING EQUIPMENT AND PARTS THEREOF, FURNACE CONVEYORS, AND PARTS THEREOF. THE SURFACE COMBUSTION COMPANY, INC., Toledo, Ohio.
Filed May 22, 1928. Serial No. 266,838. PUBLISHED AUGUST 14, 1928. Class 34.

248,569. GAS, OIL, AND COAL BURNING BOILERS, BOTH INDUSTRIAL AND DOMESTIC, AND VENTILATING FANS. KISCO BOILER & ENGINEERING COMPANY, St. Louis, Mo.
Filed May 28, 1928. Serial No. 267,129. PUBLISHED AUGUST 14, 1928. Class 34.

248,570. LUBRICATING OILS AND LUBRICATING GREASES, GASOLINE, KEROSENE, AND NAPTHA. TIDE WATER OIL COMPANY, Bayonne N. J., and New York, N. Y.
Filed May 22, 1928. Serial No. 266,842. PUBLISHED AUGUST 7, 1928. Class 15.

248,571. DRY STENCILS. THE FLEX DRY STENCIL CORPORATION, New York, N. Y.
Filed June 5, 1928. Serial No. 267,509. PUBLISHED AUGUST 7, 1928. Class 37.

248,572. KNIFE LETTER OPENERS. J. A. HENCKELS, Solinger, Germany.
Filed May 24, 1928. Serial No. 266,931. PUBLISHED AUGUST 14, 1928. Class 23.

248,573. USED AUTOMOBILES. HUPP MOTOR CAR CORPORATION, Detroit, Mich.
Filed June 4, 1928. Serial No. 267,420. PUBLISHED AUGUST 14, 1928. Class 19.

248,574. GAME DEVICE FOR PLAYING AND PRACTICE OF THE GAME OF GOLF. JULES N. WINSTEN, doing business as Drive-O-Meter Company, New York, N. Y.
Filed June 6, 1928. Serial No. 267,623. PUBLISHED AUGUST 7, 1928. Class 22.

248,575. SECTION OF DAILY PUBLICATION KNOWN AS HOUSTON POST-DISPATCH. HOUSTON PRINTING COMPANY, Houston, Tex.
Filed June 4, 1928. Serial No. 267,417. PUBLISHED AUGUST 7, 1928. Class 38.

248,576. TALLY CARDS. THE HENDERSON LITHOGRAPHING COMPANY, Norwood, Ohio.
Filed June 4, 1928. Serial No. 267,416. PUBLISHED AUGUST 7, 1928. Class 37.

248,577. ROAD-BUILDING AND QUARRY EQUIPMENT—NAMELY, BUCKET ELEVATORS, BELT CONVEYORS, REVOLVING SCREENS, SHAKER SCREENS, CAR UNDERLOADERS, PULVERIZERS, AUTOMATIC FEEDERS, BIN GATES, CHIP SPREADERS, BAR-TYPE AND REVOLVING GRIZZLY SCREENS, AND COAL BREAKERS. UNIVERSAL ROAD MACHINERY CO., Kingston, N. Y.
Filed March 21, 1928. Serial No. 263,568. PUBLISHED AUGUST 14, 1928. Class 23.

248,578. TITLE FOR PUBLICATION SECTION. WOMEN'S WEAR COMPANY, New York, N. Y.
Filed March 20, 1928. Serial No. 263,526. PUBLISHED AUGUST 14, 1928. Class 38.

248,579. MAGAZINE ARTICLES PUBLISHED FROM TIME TO TIME. NELL VINICK, New York, N. Y.
Filed March 15, 1928. Serial No. 263,241. PUBLISHED AUGUST 7, 1928. Class 38.

248,580. ALL KINDS OF WRITING AND PRINTING PAPER. STRATHMORE PAPER COMPANY, Mittineague, Mass.
Filed March 15, 1928. Serial No. 263,233. PUBLISHED AUGUST 14, 1928. Class 37.

248,581. SIGNS CONTAINING LUMINOUS TUBES WHICH PRODUCE A GOLD-COLORED LIGHT. NEALS, INC., Los Angeles, Calif.
Filed March 15, 1928. Serial No. 263,223. PUBLISHED AUGUST 7, 1928. Class 21.

248,582. MEDICINE FOR THE TREATMENT OF HAY FEVER, MEDICINAL SNUFF, ETC. LEONE W. BROOKS, Flint, Mich.
Filed March 13, 1928. Serial No. 263,068. PUBLISHED AUGUST 7, 1928. Class 6.

248,583. RUSSIAN MINERAL OIL FOR MEDICINAL USE. HYMAN HUEBSCHMAN, doing business as Ritz Chemical Company, Brooklyn, N. Y.
Filed March 9, 1928. Serial No. 262,852. PUBLISHED JULY 24, 1928. Class 6.

248,584. LINE OF DRUGS AND MEDICINES FOR HOGS AND STOCK. DAVID H. PIKE, doing business as Salutary Products Company, Council Bluffs, Iowa.
Filed March 8, 1928. Serial No. 262,818. PUBLISHED JULY 24, 1928. Class 6.

248,585. MONTHLY MAGAZINE. W. F. HUFFMAN PRINTING COMPANY, Wisconsin Rapids, Wis.
Filed March 8, 1928. Serial No. 262,804. PUBLISHED AUGUST 14, 1928. Class 38.

248,586. ANALGESIC AND COUNTERIRRITANT. THE SYDNEY ROSS CO., Newark, N. J.
Filed March 7, 1928. Serial No. 262,778. PUBLISHED JULY 24, 1928. Class 6.

248,587. EDUCATIONAL ADVERTISEMENTS. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y.
Filed March 2, 1928. Serial No. 262,587. PUBLISHED AUGUST 7, 1928. Class 38.

248,588. KRAFT PAPER. INTERNATIONAL PAPER COMPANY, New York, N. Y.
Filed February 27, 1928. Serial No. 262,308. PUBLISHED AUGUST 14, 1928. Class 37.

248,589. CANNED FISH. M. A. REX, doing business as California Sea Food Company, Los Angeles, Calif.
Filed January 9, 1928. Serial No. 262,141. PUBLISHED APRIL 24, 1928. Class 46.

248,590. FOOT BALSAM. HUMBERT F. MONTAGNA, doing business as Bert's Laboratory, Los Angeles, Calif.
Filed February 13, 1928. Serial No. 261,640. PUBLISHED AUGUST 7, 1928. Class 6.

248,591. COLD CREAM, OINTMENT, TOOTHPASTE, GUM MASSAGE, AND BODY DEODORANT. LEO W. MAUCK, doing business as Multicreme Company, Lyons, Kansas.
Filed February 11, 1928. Serial No. 261,581. PUBLISHED JULY 24, 1928. Class 6.

248,592. POULTRY AND STOCK FEED. POULTRY PRODUCERS OF CENTRAL CALIFORNIA, San Francisco, Calif.
Filed February 8, 1928. Serial No. 261,384. PUBLISHED JULY 31, 1928. Class 46.

248,593. EXTERNAL PREPARATION FOR RELIEVING PAIN IN CASES OF NEURALGIA, NEURITIS, AND RHEUMATISM. JEROME J. GLADKE, doing business as the Painalac Co., Elmira, N. Y.
Filed February 8, 1928. Serial No. 261,362. PUBLISHED JULY 24, 1928. Class 6.

248,594. BEDS, BED SPRINGS, COUCHES, COTS, DAY BEDS, AND MATTRESSES. NEW YORK BED SPRING MFG. CO., Detroit, Mich.
Filed February 6, 1928. Serial No. 261,278. PUBLISHED AUGUST 14, 1928. Class 32.

248,595. CHOCOLATE-COVERED POTATO CHIPS. C. D. & R. W. WATSON, Joplin, Mo.
Filed February 3, 1928. Serial No. 261,155. PUBLISHED AUGUST 14, 1928. Class 46.

248,596. CHEMICAL PREPARATION FOR SOFTENING OR NEUTRALIZING THE ALKALINE CONTENT OF WATER AND FOR REMOVING GREASE, RUST, AND OTHER STAINS FROM FABRICS AND OTHER SUBSTANCES. SOLARINE COMPANY, Baltimore, Md.
Filed February 2, 1928. Serial No. 261,080. PUBLISHED MARCH 13, 1928. Class 6.

248,597. MAGAZINES PUBLISHED MONTHLY. PARIS COMET, INC., New York, N. Y.
Filed June 21, 1928. Serial No. 268,462. PUBLISHED AUGUST 7, 1928. Class 38.

248,598. PORTABLE MANTELS FOR ELECTRIC HEATERS, ELECTRIC GLOWERS, AND GAS HEATERS, SAID MANTELS BEING ORNAMENTAL IN APPEARANCE AND THE ORNAMENTATION PRODUCED SOLELY BY MOLDING PLASTIC MATERIAL THEREON. ARCHITECTURAL DECORATING COMPANY, Seattle, Wash.
Filed June 16, 1928. Serial No. 268,131. PUBLISHED AUGUST 14, 1928. Class 34.

248,599. TOY DOGS. F. W. WOOLNOUGH CO., INC., Brooklyn, N. Y.
Filed June 15, 1928. Serial No. 268,128. PUBLISHED AUGUST 7, 1928. Class 22.

248,600. HAND BAGS. L. J. & M. LEFKOWITZ, INC., New York, N. Y.
Filed June 15, 1928. Serial No. 268,103. PUBLISHED JULY 31, 1928. Class 3.

248,601. RYE WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky., and Baltimore, Md.
Filed June 15, 1928. Serial No. 268,078. PUBLISHED AUGUST 14, 1928. Class 49.

248,602. BAFFLE WALL STRUCTURES FOR STEAM OR WATER-TUBE BOILERS. JOHN A. MACDOWELL, doing business as The Boiler Baffle Wall Co., Columbus, Ohio.
Filed June 14, 1928. Serial No. 268,047. PUBLISHED AUGUST 14, 1928. Class 34.

248,603. GENERAL HOUSEHOLD CLEANING COMPOUND. CELIA A. LUCHER, Chicago, Ill.
Filed June 14, 1928. Serial No. 268,046. PUBLISHED AUGUST 7, 1928. Class 4.

248,604. WHEAT FLOUR. INTERNATIONAL MILLING COMPANY, doing business as Western Flour Mills, Minneapolis, Minn., and Davenport, Iowa.
Filed June 14, 1928. Serial No. 268,041. PUBLISHED JULY 31, 1928. Class 46.

248,605. MINERAL WATER. ALBERT KREKLER, doing business as H & H Mineral Water Co., Clinton, Ind.
Filed June 16, 1928. Serial No. 268,163. PUBLISHED AUGUST 14, 1928. Class 45.

248,606. PERIODICAL. FRANK H. HOLLMANN, doing business as American Pigeon Journal Co., Warrenton, Mo.
Filed June 16, 1928. Serial No. 268,158. PUBLISHED AUGUST 7, 1928. Class 38.

248,607. MOTOR-LUBRICATING OIL. QUAKER OIL COMPANY, INC., Plainfield, Ind.
Filed June 13, 1928. Serial No. 267,996. PUBLISHED AUGUST 7, 1928. Class 15.

248,608. CIGARS. DE NOBILI CIGAR COMPANY, New York, N. Y.
Filed June 16, 1928. Serial No. 268,147. PUBLISHED AUGUST 14, 1928. Class 17.

248,609. CRAYONS, SLATE PENCILS, AND CHALK. BINNEY & SMITH COMPANY, New York, N. Y.
Filed June 16, 1928. Serial No. 268,139. PUBLISHED AUGUST 14, 1928. Class 37.

248,610. CRAYONS, SLATE PENCILS, AND CHALK. BINNEY & SMITH COMPANY, New York, N. Y.
Filed June 16, 1928. Serial No. 268,138. PUBLISHED AUGUST 14, 1928. Class 37.

248,611. CRAYONS, SLATE PENCILS, AND CHALK. BINNEY & SMITH COMPANY, New York, N. Y.
Filed June 16, 1928. Serial No. 268,137. PUBLISHED AUGUST 14, 1928. Class 37.

248,612. CRAYONS, SLATE PENCILS, AND CHALK. BINNEY & SMITH COMPANY, New York, N. Y.
Filed June 16, 1928. Serial No. 268,136. PUBLISHED AUGUST 14, 1928. Class 37.

248,613. CARTOONS. VICTOR LEONARD, St. Petersburg, Fla.
Filed June 16, 1928. Serial No. 268,164. PUBLISHED AUGUST 7, 1928. Class 38.

248,614. PERIODICAL PUBLICATION. E. H. SCULL COMPANY, Chicago, Ill., and New York, N. Y.
Filed June 16, 1928. Serial No. 268,174. PUBLISHED AUGUST 7, 1928. Class 38.

248,615. BALSAM FOR THE TREATMENT OF CONSTIPATION, FLATULENCY, WIND COLIC, AND DIARRHEA. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y.
Filed June 19, 1928. Serial No. 268,311. PUBLISHED AUGUST 7, 1928. Class 6.

248,616. BEAM HEADS FOR TEXTILE-LOOM BEAMS. ERNEST UFF, Chester, Pa.
Filed June 18, 1928. Serial No. 268,257. PUBLISHED AUGUST 14, 1928. Class 23.

248,617. SUITCASES. THE HORTON & HUBBARD MFG. CO., East Somerville, Mass.
Filed June 19, 1928. Serial No. 268,284. PUBLISHED AUGUST 7, 1928. Class 3.

248,618. PAPER COVERS FOR PROTECTING STACKS OF DINNER PLATES. MARY E. ORCHARD, doing business as Nodusto Manufacturing Co., Rochester, N. Y.
Filed June 25, 1928. Serial No. 268,627. PUBLISHED AUGUST 14, 1928. Class 37.

248,619. POWDERED WHEY SOLID. KRAFT-PHENIX CHEESE COMPANY, Chicago, Ill.
Filed June 25, 1928. Serial No. 268,616. PUBLISHED AUGUST 7, 1928. Class 46.

248,620. COVER, WRITING, PRINTING, AND ANNOUNCEMENT PAPER AND FOR MAILING ENVELOPES ADAPTED FOR SOCIAL AND BUSINESS PURPOSES. HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass.
Filed June 25, 1928. Serial No. 268,603. PUBLISHED AUGUST 14, 1928. Class 37.

248,621. TYPEWRITER RIBBONS AND CARBON PAPER. THE NATIONAL BANK SUPPLY CO., Milwaukee, Wis.
Filed June 23, 1928. Serial No. 268,555. PUBLISHED AUGUST 14, 1928. Class 11.

248,622. HEADING FOR A NEWSPAPER COLUMN. HOUSTON PRINTING COMPANY, Houston, Tex.
Filed June 23, 1928. Serial No. 268,545. PUBLISHED AUGUST 7, 1928. Class 38.

248,623. HEADING FOR AN ANNUAL SECTION OF A NEWSPAPER. HOUSTON PRINTING COMPANY, Houston, Tex.
Filed June 23, 1928. Serial No. 268,544. PUBLISHED AUGUST 7, 1928. Class 38.

248,624. WINDOW-SASH FASTENERS, LATCHES, BOLTS FOR DOORS AND WINDOWS, SHUTTER BARS, AND DOOR FASTENERS. THE STANLEY WORKS, New Britain, Conn.
Filed June 22, 1928. Serial No. 268,520. PUBLISHED AUGUST 14, 1928. Class 25.

248,625. GEARS AND PINIONS. FLEXIBLE ENGINEERING CORPORATION, New York, N. Y.
Filed June 22, 1928. Serial No. 268,493. PUBLISHED AUGUST 14, 1928. Class 23.

248,626. APPARATUS FOR THE TREATMENT OF SOLIDS SUSPENDED IN LIQUIDS, AND MORE PARTICULARLY FOR THE CLASSIFICATION OF SUSPENDED SOLIDS, AND THE REMOVAL OF SUCH SOLIDS—NAMELY, CLASSIFIERS, BOWL CLASSIFIERS, AND MECHANICALLY-CLEANED GRIT CHAMBERS. THE DORR COMPANY, New York, N. Y.
Filed June 22, 1928. Serial No. 268,491. PUBLISHED AUGUST 14, 1928. Class 23.

248,627. SWEEPING COMPOUND. ZIMMER SWEEPING COMPOUND CO., Minneapolis, Minn.
Filed June 21, 1928. Serial No. 268,476. PUBLISHED AUGUST 14, 1928. Class 4.

248,628. WEEKLY JOURNAL. THE THOROUGHBRED RECORD COMPANY, Lexington, Ky.
Filed June 21, 1928. Serial No. 268,471. PUBLISHED AUGUST 7, 1928. Class 38.

248,629. TOILET PAPER, TISSUE PAPER, CREPE PAPER, AND PAPER TOWELS. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y.
Filed June 21, 1928. Serial No. 268,413. PUBLISHED AUGUST 14, 1928. Class 37.

248,630. RICE. LAKE CHARLES RICE MILLING COMPANY OF LOUISIANA, INC., Lake Charles, La.
Filed June 22, 1928. Serial No. 268,502. PUBLISHED AUGUST 7, 1928. Class 46.

248,631. DAILY COMIC STRIP IN NEWSPAPERS AND PERIODICALS. GEORGE O. SWANSON, Cleveland, Ohio.
Filed June 20, 1928. Serial No. 268,403. PUBLISHED AUGUST 7, 1928. Class 38.

248,632. SOAPS. NAAMLOOZE VENNOOTSCHAP INTERNATIONAL PERFUMERY COMPANY, Amsterdam, Netherlands.
Filed June 20, 1928. Serial No. 268,381. PUBLISHED AUGUST 14, 1928. Class 4.

248,633. CIGARS. FEDERAL CIGAR COMPANY, INC., Red Lion, Pa.
Filed June 20, 1928. Serial No. 268,361. PUBLISHED AUGUST 14, 1928. Class 17.

248,634. NONALCOHOLIC, CARBONATED, NONCEREAL, MALTLESS BEVERAGE SOLD AT FOUNTAINS AND IN BOTTLES AS A SOFT DRINK AND SYRUP AND CONCENTRATES FOR USE IN MAKING SAID SOFT DRINK. EMERSON DRUG CO., Baltimore, Md.
Filed June 20, 1928. Serial No. 268,360. PUBLISHED AUGUST 14, 1928. Class 45.

248,635. CANNED RAVIOLIS AND CANNED OYSTERS. DUNBAR-DUKATE COMPANY, INC., New Orleans, La.
Filed June 20, 1928. Serial No. 268,358. PUBLISHED AUGUST 14, 1928. Class 46.

248,636. MONTHLY PUBLICATION. TAU KAPPA EPSILON FRATERNITY, Lombard, Ill.
Filed June 19, 1928. Serial No. 268,324. PUBLISHED AUGUST 14, 1928. Class 38.

248,637. HOSIERY. WAYNE KNITTING MILLS, Fort Wayne, Ind.
Filed May 7, 1928. Serial No. 266,066. PUBLISHED JULY 10, 1928. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

248,638. (CLASS 39. CLOTHING.) CHELTENHAM KNITTING CO., Philadelphia, Pa. Filed July 13, 1928. Serial No. 269,510.

Gibbs

For Men's, Women's, and Children's Underwear of Knitted or Woven Fabric.
Claims use since 1914.

248,639. (CLASS 39. CLOTHING.) KINCAID & COMPANY, INC., Utica, N. Y. Filed July 7, 1928. Serial No. 269,243.

Lastingwear

For Men's and Boys' Coats, Vests, Trousers, Raincoats, and Overcoats.
Claims use since June 1, 1926.

248,640. (CLASS 39. CLOTHING.) THE MEYER'S COMPANY, Greensboro, N. C. Filed Apr. 9, 1928. Serial No. 264,595.

SEDGEFIELD

For Men's and Boys' Clothing Consisting of Ready-to-Wear Suits, Coats, Overcoats, Raincoats, Boys' Suits, Knickers, and Long Pants, Ties, Wash Suits, Caps, Hats, Sweaters, Bathing Suits, Underwear of Both Knitted and Textile Fabrics; Dress, Negligee, and Work Shirts; Blouses, Pajamas, Sport Coats, Golf Coats, Golf Sweaters, Golf Hose, and Golf Knickers.
Claims use since Mar. 1, 1927.

248,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAMBERT CHOCOLATE COMPANY, Jackson, Mich. Filed Apr. 7, 1928. Serial No. 264,521.

Lamberts

For Candy.
Claims use since Aug. 1, 1927.

248,642. (CLASS 39. CLOTHING.) PH. WEINBERG & SONS, New York, N. Y. Filed Apr. 3, 1928. Serial No. 264,269.

PLAIN-TONE

For Suits for Men and Young Men.
Claims use since Aug. 6, 1927.

248,643. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOWLER SALVE CO., Gloversville, N. Y. Filed Mar. 8, 1928. Serial No. 262,792.

BOWLER'S
BALSAM SALVE

For Salve for Use in the Treatment of Boils, Felons, Cracked Skin, Cuts, and Bruises.
Claims use since Sept. 1, 1927.

248,644. (CLASS 39. CLOTHING.) C. J. FARLEY & CO., Grand Rapids, Mich. Filed Oct. 24, 1927. Serial No. 256,519.

Farley

For Hosiery; Men's, Women's and Children's Knit Underwear; Bathing Suits, Sweaters, Knit Caps; Children's Bootles, Leggins, and Buntings; Men's Furnishings—Namely, Collars, Ties, Pajamas, Nightshirts, Dress Shirts, Work Pants, Bath Robes, Belts, Suspenders, Overalls, Gloves Composed of Leather and Fabric and Combinations of Those Two Materials, Work Shirts, Flannel Shirts, Coveralls, Caps, Topcoats, and Overcoats for Men and Boys; Boy's Clothing—Namely, Boys' Blouses, Wash Suits, Play Suits, Knee Pants, Coveralls, and Caps; Women's and Misses' Clothing—Namely, Boudoir Caps, Raincoats, Bloomers, Princess Slips, Muslin Gowns, Step-Ins, Outing Gowns, Bandeaux, and Brassières; Ladies' Aprons, Dresses, and Coats.
Claims use since Mar. 1, 1927.

248,645. (CLASS 39. CLOTHING.) BEAR BRAND HOSIERY CO., Chicago, Ill. Filed Aug. 24, 1927. Serial No. 253,862.

QUEBEC

For Hosiery.
Claims use since July 16, 1927.

248,646. (CLASS 39. CLOTHING.) KATZ & COOPER, New York, N. Y. Filed Aug. 23, 1927. Serial No. 253,845.

Jean Dale

For Gymnasium and Hiking Apparel—Namely, Middy Blouses, Knickers, Bloomers, Coats, and Jackets for Women and Girls.
Claims use since about Aug. 15, 1927.

248,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRENCH COSMETIC MFG. CO., INC., New Rochelle, N. Y. Filed Aug. 2, 1927. Serial No. 252,900.

RUTH DALTON

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Powder Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Lip Pomades, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.

Claims use since July 28, 1927.

248,648. (CLASS 39. CLOTHING.) SPECIALIZED APPAREL STORES COMPANY, Sioux City, Iowa. Filed Aug. 1, 1927. Serial No. 252,867.

Jane Gray
THE SHOP OF YOUTH

For Ladies' Ready-to-Wear Dresses.
Claims use since July 28, 1927.

248,649. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CARTER RADIO COMPANY, Chicago, Ill. Filed July 28, 1927. Serial No. 252,642.

HI-WATT

For Rheostats and Potentiometers for Radio Use.
Claims use since Apr. 23, 1927.

248,650. (CLASS 39. CLOTHING.) THE LAWTON CO., Cincinnati, Ohio. Filed July 20, 1927. Serial No. 252,306.

DEYO

For Ladies' Silk Hose.
Claims use since June 17, 1927.

248,651. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE KEYSTONE WATCH CASE COMPANY, Riverside, N. J. Filed May 24, 1927. Serial No. 249,479.

NICKELOID

For Watches and Watchcases.
Claims use since Apr. 11, 1927.

248,652. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LOUISE KLUGER COMPANY, Cleveland, Ohio. Filed Jan. 10, 1924. Serial No. 190,642.

Louise Kluger's

For Confectionery Comprising Candy, Baked Confections, Sugar Paste, Lebkuchen Strips, Candied Fruits and Nuts.
Claims use since Jan. 10, 1923.

TRADE-MARK REGISTRATIONS RENEWED

70,015. PAINTS AND VARNISHES. Registered July 21, 1908. SAMUEL H. FRENCH & CO. Renewed July 21, 1928, to Samuel H. French & Co., Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

70,279. SILK PIECE GOODS. Registered August 18, 1908. CARSON PIRIE SCOTT & CO. Renewed August 18, 1928, to Carson Pirie Scott & Co., Chicago, Ill., a Corporation of Illinois, assignee.

70,315. RUBBER COMBS. Registered August 18, 1908. HANNOVERSCHE GUMMI-KAMM-COMPAGNIE ACTIEN-GESELLSCHAFT, Hanover-Limmer, Germany. Renewed August 18, 1928, to Hanover Rubber Co. "Excelsior" Inc., New York, N. Y., a Corporation of New York, assignee.

70,356. HOSIERY. Registered August 25, 1908. TITUS L. SEIDEL, Reading, Pa. Renewed August 25, 1928, to H. & A. L. Cohen, Indianapolis, Ind., a Partnership, assignee.

70,409. CELERY TONIC. Registered August 25, 1908. CENTURY CHEMICAL CO. Renewed August 25, 1928, to The B-J-L Company, Indianapolis, Ind., a Corporation of Indiana, assignee by mesne assignments.

70,447. CASTOR OIL IN CAPSULES. Registered September 1, 1908. GRAPE CAPSULE COMPANY, Allentown, Pa., a Corporation of Pennsylvania. Renewed September 1, 1928.

70,575. PLASTER BOARD. Registered September 15, 1908. J. B. KINO & CO., New York, N. Y. Renewed September 15, 1928, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois, assignee.

71,199. CERTAIN RUBBER GOODS. Registered November 10, 1908. HANNOVERSCHE GUMMI-KAMM-COMPAGNIE ACTIEN-GESELLSCHAFT, Hanover-Limmer, Germany. Renewed November 10, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

71,262. A CEREAL PREPARATION FOR MAKING BEVERAGES. Registered November 10, 1908. POSTUM CEREAL CO. LIMITED, Battle Creek, Mich. Renewed November 10, 1928, to Postum Company, Incorporated, New York, N. Y., a Corporation of Delaware, assignee.

71,394. CONDENSED MILK. Registered November 24, 1908. MOHAWK CONDENSED MILK CO., Rochester and New York, N. Y., a Corporation of New York. Renewed November 24, 1928.

71,413. SAWS AND MACHINE KNIVES. Registered November 24, 1908. SIMONDS MANUFACTURING COMPANY, Fitchburg, Mass.; Chicago, Ill.; Portland, Oreg.; Seattle, Wash.; and San Francisco, Calif. Renewed November 24, 1928, to Simonds Saw and Steel Company, Fitchburg, Mass., a Corporation of Massachusetts, assignee.

71,492. HANDLES FOR SELF-CLOSING BIBS AND FAUCETS. Registered November 24, 1908. H. MUELLER MANUFACTURING COMPANY. Renewed November 24, 1928, to Mueller Co., Decatur, Ill., a Corporation of Illinois, by change of name.

71,527. MACHINES FOR TAPPING MAINS AND PARTS OF SUCH MACHINES. Registered December 1, 1908. H. MUELLER MANUFACTURING COMPANY. Renewed December, 1, 1928, to Mueller Co., Decatur, Ill., a Corporation of Illinois, by change of name.

71,581. COFFEE. Registered December 1, 1908. HILLS BROS. Renewed December 1, 1928, to Hills Bros., San Francisco, Calif., a Corporation of California, assignee.

71,654. A BLEND OF CANE AND MAPLE SYRUPS. Registered December 8, 1908. THE TOWLE MAPLE SYRUP COMPANY, St. Paul, Minn. Renewed December 8, 1928, to The Log Cabin Products Company, New York, N. Y., a Corporation of Delaware, assignee.

71,715. GLAZED KID. Registered December 15, 1908. MCNEELY & PRICE. Renewed December 15, 1928, to McNeely & Price Co., Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

71,725. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,726. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,727. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,728. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

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71,730. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1908.

71,731. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,732. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,733. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,735. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,736. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,737. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,738. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,739. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,740. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,741. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,742. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,743. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,744. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

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71,747. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,748. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,749. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,750. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,752. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

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71,775. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,813. TEA. Registered December 15, 1908. HILLS BROS. Renewed December 15, 1928, to Hills Bros., San Francisco, Calif., a Corporation of California, assignee.

71,841. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,842. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,843. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,844. CANNED SALMON. Registered December 15, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 15, 1928.

71,879. CANNED SALMON. Registered December 22, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 22, 1928.

71,880. CANNED SALMON. Registered December 22, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 22, 1928.

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71,882. CANNED SALMON. Registered December 22, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 22, 1928.

71,883. CANNED SALMON. Registered December 22, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 22, 1928.

71,884. CANNED SALMON. Registered December 22, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 22, 1928.

71,885. CANNED SALMON. Registered December 22, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 22, 1928.

71,886. CANNED SALMON. Registered December 22, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 22, 1928.

71,887. CANNED SALMON. Registered December 22, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 22, 1928.

72,058. CANNED SALMON. Registered December 29, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 29, 1928.

72,059. CANNED SALMON. Registered December 29, 1908. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed December 29, 1928.

72,462. CONDENSED MILK. Registered January 26, 1909. MOHAWK CONDENSED MILK CO., Rochester and New York, N. Y., a Corporation of New York. Renewed January 26, 1929.

72,480. REMEDY FOR CERTAIN DISEASES. Registered January 26, 1909. CAWTHON-COLEMAN COMPANY. Renewed January 26, 1929, to Cawthon-Coleman Drug Company, Selma, Ala., a Corporation of Alabama, by change of name.

72,680. CANNED SALMON. Registered February 9, 1909. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed February 9, 1929.

72,721. CERTAIN ELECTRICAL GOODS. Registered February 16, 1909. PASS & SEYMOUR, INCORPORATED, Solvay, N. Y. Renewed February 16, 1929, to Pass & Seymour, Inc., Syracuse, N. Y., a Corporation of New York.

72,739. CANNED SALMON. Registered February 16, 1909. ALASKA PACKERS ASSOCIATION, San Francisco, Calif., a Corporation of California. Renewed February 16, 1929.

72,758. LUCCA OLIVE OIL. Registered February 16, 1909. G. ROSSANO & BRO., New York, N. Y. Renewed February 16, 1929.

72,782. CALCIUM CARBID. Registered February 23, 1909. AMERICAN CARBOLITE COMPANY, Duluth, Minn. Renewed February 23, 1929, to American Carbolite Company, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

LABELS

REGISTERED OCTOBER 23, 1928.

34,807.—*Title:* KOF-NO-MOR. For Cough Remedy. TATE ANDERSON, Kansas City, Mo. Published August 25, 1928.

34,808.—*Title:* AROMINTS. For Candy. AROMINT CORPORATION, Cincinnati, Ohio. Published July 19, 1928.

34,809.—*Title:* CALIGRAPO. For Grapes. CALIFORNIA GRAPE PRODUCTS COMPANY, Ukiah and Deland, Calif., and New York, N. Y. Published August 1, 1928.

34,810.—*Title:* CHAT'S BEST. For Lentils. CHATTERTON & SON, Lansing, Mich., and Toledo, Ohio. Published April 11, 1928.

34,811.—*Title:* CHAT'S BEST. For Lentils. CHATTERTON & SON, Lansing, Mich., and Toledo, Ohio. Published April 11, 1928.

34,812.—*Title:* PONTIAC. For Lemons. CHULA VISTA CITRUS ASSOCIATION, Chula Vista, Calif. Published August 1, 1928.

34,813.—*Title:* PRINCIPESSA DI VENEZIA. For Salad Oil. COLONIAL CAN CO., Boston, Mass. Published November 24, 1926.

34,814.—*Title:* MEDO-MAID EGGS. For Eggs. COMMERCIAL CREAMERY COMPANY, Spokane, Wash. Published August 28, 1928.

34,815.—*Title:* BLUE HEN EGGS. For Eggs. COMMERCIAL CREAMERY COMPANY, Spokane, Wash. Published August 28, 1928.

34,816.—*Title:* J-L-E BREAD SPREAD. For Fruit Concentrate. CONTINENTAL CREDIT CORPORATION, doing business as Schweizer Fruit Products, Chicago, Ill. Published May 11, 1928.

34,817.—*Title:* J-L-E. For Fruit Concentrate. CONTINENTAL CREDIT CORPORATION, doing business as Schweizer Fruit Products, Chicago, Ill. Published May 11, 1928.

34,818.—*Title:* FRISCH PROCESS. For Bread. EMILE FRISCH, Chicago, Ill. Published July 10, 1928.

34,819.—*Title:* YES. For Glue. GANE BROTHERS & LANE, INCORPORATED, Chicago, Ill. Published August 1, 1928.

34,820.—*Title:* YES. For Glue. GANE BROTHERS & LANE INCORPORATED, Chicago, Ill. Published August 1, 1928.

34,821.—*Title:* MARK OF INTEGRITY. For Ladies' and Misses' Dresses. ALEXANDER S. GROSS, INC., New York, N. Y. Published July 16, 1928.

34,822.—*Title:* MERIT THE STANDARD. For Ladies' and Misses' Dresses. ALEXANDER S. GROSS, INC., New York, N. Y. Published July 16, 1928.

34,823.—*Title:* FLUF-IT. For Cake-Flour Preparation. GUNTRATH-LORENZEN CO., Chicago, Ill. Published July 20, 1928.

34,824.—*Title:* MONOGRAM DATES. For Dates. THE HILLS BROTHERS COMPANY, New York, N. Y. Published August 29, 1928.

34,825.—*Title:* NEW LIFE FOR AUTO TOPS. For Dressing for Auto Tops. CHARLES JAMES INGERSOLL, Wink, Tex. Published August 1, 1927.

34,826.—*Title:* REAL-LITE. For Christmas-Tree Lighting Sets. INTERNATIONAL TRADING CO., Los Angeles, Calif. Published March 1, 1928.

34,827.—*Title:* DR. JOHNSON'S ANTI-FLU-RUB. For Medicinal Preparation. CASSIUS L. JOHNSON, Rockford, Ill. Published August 9, 1928.

34,828.—*Title:* BLUE ANCHOR MALT SYRUP. For Malt Syrup. HERMAN KASSER, doing business as The Blue Anchor Malt Distributing Company of America, Philadelphia, Pa. Published August 1, 1928.

34,829.—*Title:* SILVERGATE. For Canned Corn. KLAUBER WANGENHEIM CO., San Diego, Calif. Published July 1, 1928.

34,830.—*Title:* POINT LOMA. For Canned Corn. KLAUBER WANGENHEIM CO., San Diego, Calif. Published July 1, 1928.

34,831.—*Title:* PAY DAY. For Tomatoes with Purée from Trimmings. KLAUBER WANGENHEIM CO., San Diego, Calif. Published July 1, 1928.

34,832.—*Title:* LOVE'S REAL HAWAIIAN FRUIT CAKE. For Fruit Cake. LOVE'S BISCUIT & BREAD COMPANY, Honolulu, Territory of Hawaii. Published November 1, 1927.

34,833.—*Title:* DIX. For Dessert Powders. ELIZABETH B. MCFARLANE, Detroit, Mich. Published October 1, 1925.

34,834.—*Title:* GOLDEN RULE SHOE. For Footwear. FRANK C. MEYER COMPANY, INC., New York, N. Y., assignor to Golden Rule Shoe Company, Lynn, Mass. Published October 15, 1927.

34,835.—*Title:* MILFORD. For Canned Corn. MILFORD CANNING COMPANY, Milford, Ill. Published August 9, 1928.

34,836.—*Title:* FALSTAFF. For Pears. BENEDICT MOCEO, San Jose, Calif. Published August 1, 1928.

34,837.—*Title:* ST. JOHN'S BREAD. For Bread. PAUL L. MUSAE, Long Beach, Calif. Published September 15, 1928.

34,838.—*Title:* OLD REPEAT. For Soft Drinks. NESBITT FRUIT PRODUCTS, INC., Los Angeles, Calif. Published August 1, 1928.

34,839.—*Title:* VINHO-FERRO E QUINA. For Tonic. JOSEPH E. PERRY, New Bedford, Mass. Published May 31, 1928.

34,840.—*Title:* STAR. For Bread. THE ROCHESTER BREAD COMPANY, Rochester, Minn. Published March 1, 1928.

34,841.—*Title:* EL CAPITAN. For Fresh Oranges. SAN DIMAS ORANGE GROWERS ASSOCIATION, San Dimas, Calif. Published August 1, 1928.

34,842.—*Title:* THE TABLE THAT OPENS AND CLOSES LIKE A DRAWER. For Extension Tables. THEODOR SAUER CO., New York, N. Y. Published January 10, 1928.

34,843.—*Title:* HONEY GIRL. For Butter. THE SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Published September 1, 1928.

34,844.—*Title:* A FACE POWDER (WITH PUFF) BY LUCRETIA VANDERBILT. For Face Powder. LUCRETIA VANDERBILT, INC., Bridgeport, Conn. Published August 17, 1928.

34,845.—*Title:* A FADELESS LIPSTICK BY LUCRETIA VANDERBILT. For Lip Sticks. LUCRETIA VANDERBILT, INC., Bridgeport, Conn. Published August 17, 1928.

34,846.—*Title:* A MINIATURE PRESENTATION BY LUCRETIA VANDERBILT. For Cosmetics. LUCRETIA VANDERBILT, INC., Bridgeport, Conn. Published August 17, 1928.

34,847.—*Title:* A CONCENTRATED EXTRACT BY LUCRETIA VANDERBILT. For Perfume. LUCRETIA VANDERBILT, INC., Bridgeport, Conn. Published August 17, 1928.

34,848.—*Title:* A TRIPLE COMPACT (POWDER-ROUGE-LIPSTICK) BY LUCRETIA VANDERBILT. For Compacts. LUCRETIA VANDERBILT, INC., Bridgeport, Conn. Published August 17, 1928.

34,849.—*Title:* A DOUBLE COMPACT (POWDER-ROUGE) BY LUCRETIA VANDERBILT. For Compacts. LUCRETIA VANDERBILT, INC., Bridgeport, Conn. Published August 17, 1928.

34,850.—*Title:* A FACE POWDER (AND PUFF) BY LUCRETIA VANDERBILT. For Face Powder. LUCRETIA VANDERBILT, INC., Bridgeport, Conn. Published August 17, 1928.

34,851.—*Title:* A CONCENTRATED EXTRACT BY LUCRETIA VANDERBILT. For Perfume. LUCRETIA VANDERBILT, INC., Bridgeport, Conn. Published August 17, 1928.

34,852.—*Title:* RESULTS PILGRIMS OF THE NIGHT. For Laxative. VAN DYKE CHEMICAL COMPANY, INC., Philadelphia, Pa. Published July 23, 1928.

34,853.—*Title:* THOMAS' VEGETIZED WHOLE WHEAT. For Bread. VEGETABLE PRODUCTS CORPORATION, Los Angeles, Calif. Published June 8, 1928.

PRINTS

REGISTERED OCTOBER 23, 1928.

11,272.—*Title:* DAIRY BREAD BUILDS STRONG MUSCLES. For Bread. AMERICAN DRY MILK INSTITUTE, INC., Chicago, Ill. Published July 6, 1928.

11,273.—*Title:* THE FOUNDATION OF ROBUST HEALTH DAIRY BREAD MILK SUGAR MILK PROTEIN MILK MINERALS GET A LOAF OF DAIRY BREAD TODAY! For Bread. AMERICAN DRY MILK INSTITUTE, INC., Chicago, Ill. Published July 23, 1928.

11,274.—*Title:* DAIRY BREAD RICH IN MILK MINERALS MILK PROTEINS MILK SUGAR YOU'LL LIKE ITS OLD TIME FLAVOR! For Bread. AMERICAN DRY MILK INSTITUTE, INC., Chicago, Ill. Published July 24, 1928.

11,275.—*Title:* HEALTH IN EVERY SLICE DAIRY BREAD. For Bread. AMERICAN DRY MILK INSTITUTE, INC., Chicago, Ill. Published July 24, 1928.

11,276.—*Title:* FOR HEALTHIER YOUNGSTERS! DAIRY BREAD. For Bread. AMERICAN DRY MILK INSTITUTE, INC., Chicago, Ill. Published July 24, 1928.

11,277.—*Title:* MAKES DELICIOUS CRISPY EVENLY BROWNED TOAST. For Bread. AMERICAN DRY MILK INSTITUTE, INC., Chicago, Ill. Published July 24, 1928.

11,278.—*Title:* BEAUTY FOR YOU IN THE CONTINENTAL MANNER. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published April 22, 1928.

11,279.—*Title:* BEECH-NUT BRAND CHEWING GUM, LICORICE FLAVORED. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published March 29, 1926.

11,280.—*Title:* BEECH-NUT BRAND CHEWING GUM, SPEARMINT. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 29, 1928.

11,281.—*Title:* BEECH-NUT BRAND CHEWING GUM, WINTERGREEN. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 29, 1928.

11,282.—*Title:* BEECH-NUT BRAND CHEWING GUM, ALWAYS REFRESHING. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 25, 1928.

11,283.—*Title:* BEECH-NUT BRAND CHEWING GUM, FRUIT FLAVORED. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published March 13, 1928.

11,284.—*Title:* AIRLINE PILLOWS. For Pillows. BUCHMAN MANUFACTURING COMPANY, Carnegie, Pa. Published August 7, 1928.

11,285.—*Title:* THE NEW REX-PATROL AUTOMATIC WATER HEATER. For Rex-Patrol Water Heaters. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Published August 4, 1928.

11,286.—*Title:* REVOLUTIONARY AND SIMPLIFIED. For Spee-Dee Boilers. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Published June 30, 1928.

11,287.—*Title:* NOW, ANOTHER NEW ACHIEVEMENT. For Rex-Patrol Water Heaters. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Published June 30, 1928.

11,288.—*Title:* NEW ENGINEERING DISCOVERIES GIVE AMAZING RESULTS. For Spee-Dee Boilers. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Published August 4, 1928.

11,289.—*Title:* FITSRITE EAR DRUM PROTECTORS. For Ear-Drum Protectors. JACK COHN, doing business as Fitsrite Products Co., New York, N. Y. Published July 2, 1928.

11,290.—*Title:* AN AUTHORITATIVE REVIEW OF THE LATEST FINDINGS IN NUTRITION. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published September 1, 1928.

11,291.—*Title:* MANY MILLION HANDS USE DIXON'S TI-CON-DER-OGA EVERY DAY. IT ADAPTS ITSELF TO EVERY WRITING STYLE. For Pencils. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Published March 10, 1928.

11,292.—*Title:* STRONG & FIRM. For Pencils. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Published May 5, 1928.

11,293.—*Title:* WRITING EASE. For Pencils. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Published April 7, 1928.

11,294.—*Title:* ITS RICH BLACK LINES, EASILY WRITTEN AND EASILY READ, HAVE MADE DIXON'S TI-CON-DER-OGA AMERICA'S FAVORITE FIVE-CENT PENCIL. For Pencils. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Published February 11, 1928.

11,295.—*Title:* GOOD(WINGFOOT)YEAR MORE PEOPLE RIDE ON GOODYEAR TIRES THAN ON ANY OTHER KIND. For Tires Composed Wholly or in Part of Rubber. THE GOODYEAR TIRE & RUBBER COMPANY INC., Akron, Ohio. Published August 1, 1928.

11,296.—*Title:* ON THE MEN DEPENDS THE SUCCESS OF YOUR PARTY. For Heinz "57" Varieties. H. J. HEINZ COMPANY, doing business under the name of Heinz, Pittsburgh, Pa. Published September 1, 1928.

11,297.—*Title:* THE SPICING IS THE SECRET. For Tomato Ketchup. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published September 1, 1928.

11,298.—*Title:* ALL TOGETHER FOR MORE SWIMMING SUIT BUSINESS. For Swimming Suits. JANTZEN KNITTING MILLS, Portland, Oreg. Published June 15, 1928.

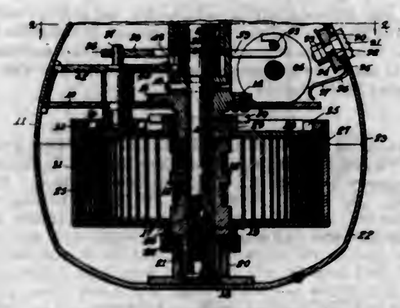
11,299.—*Title:* PACKING THERMOMETER. For Packing. SOUTHEASTERN PRODUCTS COMPANY, Birmingham, Ala. Published August 25, 1928.

11,300.—*Title:* SURE-STEP. For Optical Lenses. ZELL BROS. & CO., Portland, Oreg. Published August 23, 1928.

REISSUES

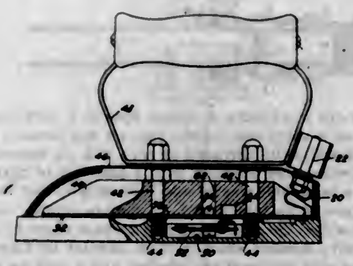
OCTOBER 23, 1928.

17,106. SPRING MOTOR. CAP B. COLLINS, New York, N. Y. Filed Jan. 15, 1926. Serial No. 81,568. Original No. 1,480,668, dated Jan. 15, 1924, Serial No. 360,887, filed Feb. 24, 1920. Renewed June 18, 1923. 30 Claims. (Cl. 185—37.)



1. In an appliance of the character described, the combination of a casing composed of registering sections formed to overlap one another at their meeting edges and capable of rotation relatively to one another, a spring-motor carried by one of said sections, a shaft rotated by the unwinding of the spring of said motor, governing means to render the speed of rotation of said shaft substantially constant, and means to effect winding of the motor upon relative rotation of said sections, substantially as described.

17,107. SADIRON. JOHN ALBY SPENCER, Revere, Mass., assignor to Spencer Thermostat Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1926. Serial No. 92,605. Original No. 1,491,363, dated Apr. 22, 1924, Serial No. 571,802, filed June 29, 1922. 12 Claims. (Cl. 219—25.)



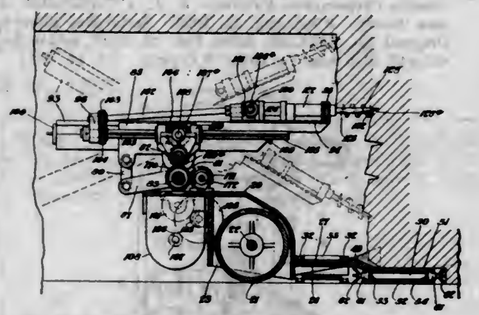
1. A sadiron comprising a pointed base member, a heater assembly comprising substantially flat heater strips connected at one end in a substantially triangular formation and superimposed above the base member, a substantially circular thermostatic assembly received in a recessed portion of the base member and spaced rearwardly from the pointed end of the base, a weight member superimposed upon the heater assembly and serving to maintain the thermostatic control within the recess, and means for connecting the weight member to the base.

17,108. METHOD OF MAKING CONTACT TIPS. WALTER W. BROWN, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Sept. 10, 1928. Serial No. 305,084. Original No. 1,672,706, dated June 5, 1928, Serial No. 81,130, filed Jan. 13, 1926. 3 Claims. (Cl. 200—166.)



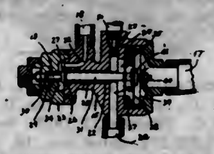
1. The process of making contact tips out of cold copper stock which consists in forcing a forming tool at spaced intervals into a copper bar of predetermined dimensions to flow the metal into the shape of a plurality of partially formed interconnected contact tips, then punching a cavity in the reverse side of each of said tips and inserting a fastening member therein, separately pressing the said tips about the inserted end of the fastening member associated therewith and finally severing the contact tips.

17,109. APPARATUS FOR MINING. FREDERICK B. MILLER, Scottdale, Pa. Filed Sept. 1, 1928. Serial No. 303,589. Original No. 1,643,000, dated Sept. 20, 1927, Serial No. 126,260, filed July 31, 1926. 12 Claims. (Cl. 262—9.)



11. In a mining machine having a main frame, a carriage mounted for vertical swinging movement relative to said main frame, a plurality of picking bars mounted on said carriage, means for moving said carriage forward under a constant torque to force said bars against the material being mined, and means for exerting a series of rapid blows against said picking bars to drive said bars into the material to be mined.

17,110. FLUID-OPERABLE LUBRICATOR AND FEEDER FOR ENGINES. FRED K. MURPHY and RAY W. RETTERER, Indianapolis, Ind. Filed Aug. 3, 1928. Serial No. 297,205. Original No. 1,620,911, dated Mar. 15, 1927, Serial No. 41,771, filed July 6, 1925. 7 Claims. (Cl. 184—55.)



4. In a lubricating system for fluid operable engines, the combination with a source of high pressure fluid and a source of lower pressure fluid, of a pressure lubricator,

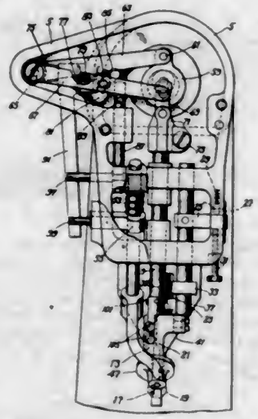
a fluid operable turbine therefor, and a distributor connected to the lubricator and the high pressure fluid source including means differentially subjected to both fluid pressure sources.

17,111. BELT CONNECTER. WENDELL A. NOURIE, Kankakee, Ill. Filed Feb. 9, 1927. Serial No. 167,019. Original No. 1,527,063, dated Feb. 17, 1925, Serial No. 706,971, filed Apr. 16, 1924. 1 Claim. (Cl. 24—123.)



A belt connecter comprising a pair of members each composed of a bar or the like which is substantially flat throughout the greater part of the length and includes sharp end portions, this bar having a loop formed of a portion which is round in cross section and disposed at a greater distance from one end than the other so that one of said end portions extends beyond the other, each of such end portions being bent at an angle in such relation that the ends can be passed into opposite sides of thebelt at different points along the belt, said end portions being bendable for clinching against the belt, substantially as shown, each of said members being formed with a bent portion at opposite sides of the opening of the loop, so the said opening will be restricted when the belt connecter is closed and clinched against the belt, substantially as shown.

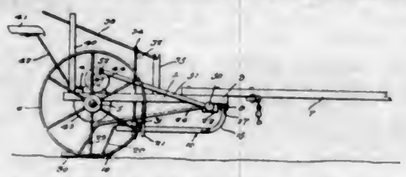
17,112. LINING-TRIMMING MACHINE. ARCHIBALD C. SMITH, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 11, 1928. Serial No. 299,081. Original No. 1,618,235, dated Feb. 22, 1927, Serial No. 657,442, filed Aug. 14, 1923. 9 Claims. (Cl. 12—51.)



1. A machine for severing a portion of the lining of a shoe which projects beyond an edge of the upper thereof having, in combination, a work support adapted to enter the shoe so as to support the upper from the inside thereof and to permit the shoe to be moved with respect to it, said work support comprising a rotatable shear member, a lining cutter co-operating with the shear member, and means for operating the cutter.

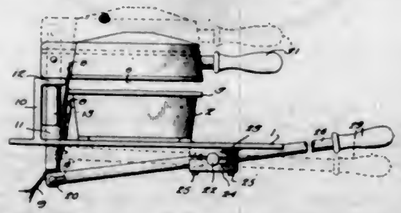
17,113. COTTON CHOPPER. JOSEPH L. PARKS, deceased, Henderson, N. C., by John L. Parks, jr., administrator, Henderson, N. C. Filed Jan. 7, 1928. Serial No. 245,247. Original No. 1,570,277, dated Jan. 19, 1926, Serial No. 47,799, filed Aug. 3, 1925. 12 Claims. (Cl. 97—18.)

1. A cotton chopper comprising a main wheel frame, a supplemental frame pivotally supported below the main frame and adapted for vertical movement, ground engaging guide shoes carried by the supplemental frame, an elongated arm, a chopping blade carried by the rear end thereof, a socket member arranged on the forward end of the main frame, a ball shaped head carried by the forward end of said



arm, and disposed within said socket, an arm extending laterally from the ball shaped head through the opposite side of the socket, and means for actuating said last mentioned arm to effect the oscillatory movement of the arm and the chopping blade thereby.

17,114. TOASTING OR COOKING APPARATUS. FRANK H. CHANDLER, Danville, Ill., assignor to C. V. Champion & Company, Danville, Ill., a Corporation of Illinois. Filed Aug. 29, 1927. Serial No. 216,322. Original No. 1,609,694, dated Dec. 7, 1926, Serial No. 111,439, filed May 24, 1926. 18 Claims. (Cl. 53—5.)



8. A device of the character described comprising a pair of upper and lower cooking plates, means for supporting said plates for and during relative bodily vertical movement directly toward and away from each other, and actuating means for effecting such movement, one of said plates being mounted to swing toward and away from the other plate.

17,115. VALVE. OLIN F. RUSSELL, Los Angeles, Calif. Filed Apr. 6, 1927. Serial No. 181,576. Original No. 1,611,611, dated Dec. 21, 1926, Serial No. 115,649, filed June 12, 1926. 6 Claims. (Cl. 251—8.)

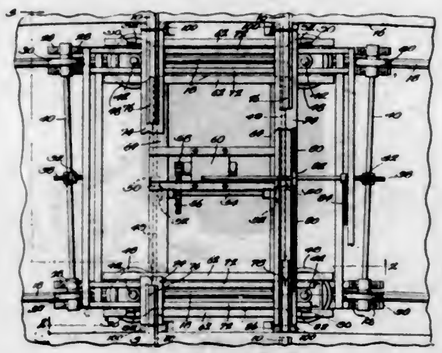


1. A valve comprising a nipple having a long running thread and a valve seat at one end, an end member internally and externally threaded at each end, an internal annular valve member provided with a plurality of ports and carrying a removable washer and a detent provided between the washer and its holder, an intermediate annular member provided with a chamber forming a by-pass around the end of said valve member when open, an annular lip formed on one end of said intermediate member, and a packing nut to co-operate with the lip to enclose a packing.

17,116. DROP-PIT MECHANISM FOR UNWHEELING LOCOMOTIVES. OSCAR L. COFFEY, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed Sept. 10, 1928. Serial No. 305,085. Original No. 1,564,828, dated Dec. 8, 1925, Serial No. 1,518, filed Jan. 10, 1925. 49 Claims. (Cl. 104—32.)

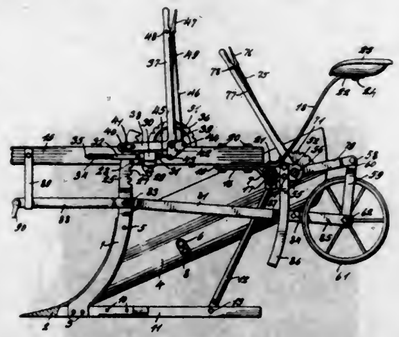
1. In mechanism of the class described, the combination with means passing a wheeled vehicle over the ground, a pit

below it having wheel tables each equipped with means detachably latching it across the pit, and a track in the bottom of the pit passing under said tables, of a trolley travelable along said track, a table elevating carriage, engageable with and separable from a table, on and reciprocal vertically above the trolley, and movable between a position where it



engages and lifts a table high enough so its latching mechanism may be released and a position low enough so that the trolley with said table and the wheeled load therein may move along said track under one other such wheel table, and mechanism for raising and lowering said carriage comprising a motor fixedly mounted on and movable vertically with the table-engaging carriage.

17,117. DITCHING PLOW. SCOTT O. MARTIN, Denver, Colo. Filed Apr. 27, 1928. Serial No. 273,409. Original No. 1,648,236, dated Nov. 8, 1927, Serial No. 143,920, filed Oct. 25, 1926. 4 Claims. (Cl. 37—98.)



1. A ditching plow comprising, in combination, two shares having one end connected with a vertically extending beam member and extending at an angle from each other, a transverse brace rod connecting the shares and holding them in spaced relation, a one piece tongue having its rear end connected with the transverse brace, means for connecting the beam directly with the tongue, a pair of wheels operatively connected with the shares, said wheels being located between the shares at a point to the rear of the transverse brace and means for securing the wheels to the brace.

DESIGNS

OCTOBER 23, 1928.

76,658. POKER-SET STAND. ALBERT P. BALL, Detroit, Mich. Filed Dec. 9, 1926. Serial No. 19,988. Term of patent 3½ years.



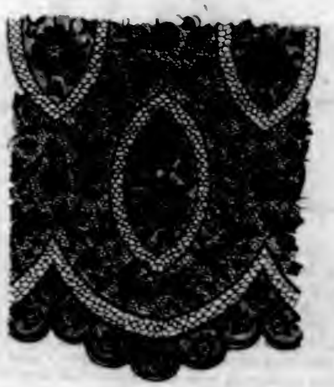
The ornamental design for a poker set stand as shown.

76,659. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed July 3, 1928. Serial No. 27,366. Term of patent 7 years.



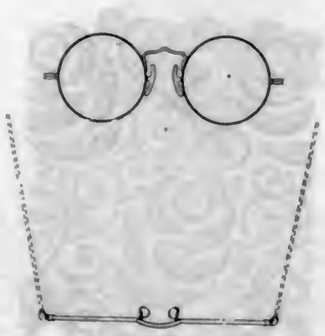
The ornamental design for lace, substantially as shown.

76,660. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed July 3, 1928. Serial No. 27,367. Term of patent 7 years.



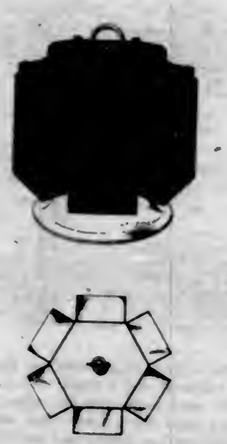
The ornamental design for lace, substantially as shown.

76,661. SPECTACLE FRAME. SAMUEL E. BOUCHARD, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed June 18, 1928. Serial No. 27,181. Term of patent 7 years.



The ornamental design for a spectacle frame substantially as shown.

76,662. COMBINED GUM AND PACKAGE-CONFECTION CASE. LLOYD W. BUCHENAU and STEPHEN N. BLEWETT, Stockton, Calif. Filed Apr. 16, 1928. Serial No. 26,355. Term of patent 14 years.



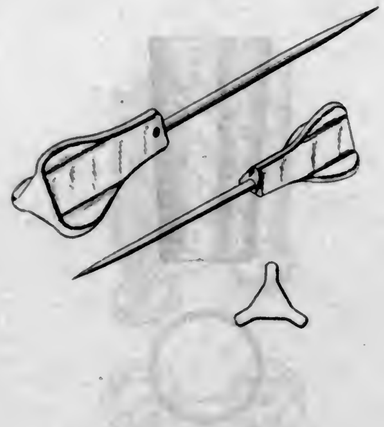
The ornamental design for a combined gum and package-confection case, as shown.

76,663. COAT. KATHERINE E. BERNS, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 1, 1928. Serial No. 27,662. Term of patent 3½ years.



The ornamental design for a coat substantially as shown and described.

76,664. ICE PICK. CLEMENT E. CHASE, Wayne, Pa. Filed Sept. 17, 1926. Serial No. 19,096. Term of patent 7 years.



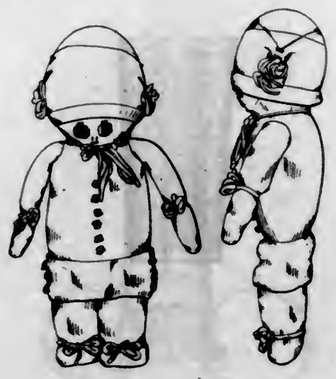
The ornamental design for an ice pick as shown.

76,665. BOTTLE OR SIMILAR CONTAINER. LEON A. DANCO, Rockville Center, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed July 28, 1928. Serial No. 27,613. Term of patent 14 years.



The ornamental design for a bottle or similar container substantially as shown.

76,666. DOLL. CECILIA E. DAVEY, Culver City, Calif. Filed June 13, 1927. Serial No. 22,414. Term of patent 7 years.



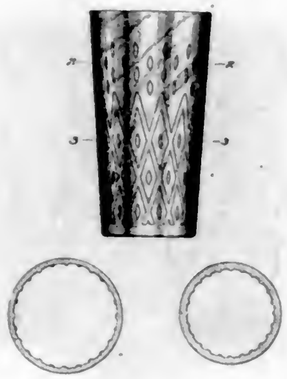
The ornamental design for a doll, as shown.

76,667. DRINKING GLASS. HALLER H. DAWSON, Clarksburg, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Dec. 29, 1927. Serial No. 24,686. Term of patent 7 years.



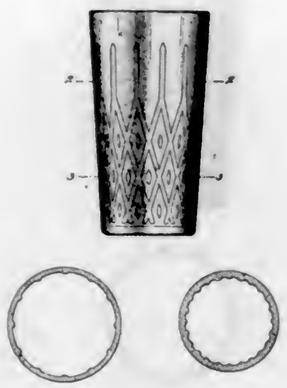
The ornamental design for a drinking glass, as shown.

76,668. DRINKING GLASS. HALLER H. DAWSON, Clarksburg, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Feb. 1, 1928. Serial No. 25,113. Term of patent 7 years.



The ornamental design for a drinking glass, as shown.

76,669. DRINKING GLASS. HALLER H. DAWSON, Clarksburg, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Feb. 1, 1928. Serial No. 25,115. Term of patent 7 years.



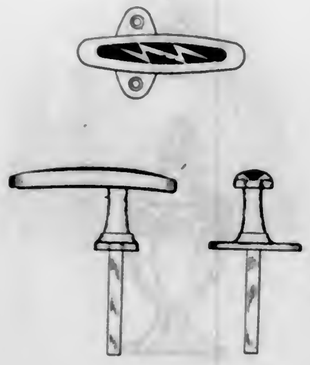
The ornamental design for a drinking glass, as shown.

76,670. DRINKING GLASS. HALLER H. DAWSON, Clarksburg, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Feb. 1, 1928. Serial No. 25,118. Term of patent 7 years.



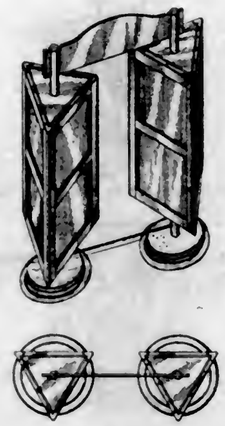
The ornamental design for a drinking glass, as shown.

76,671. AUTOMOBILE DOOR HANDLE OR SIMILAR ARTICLE. WILLIAM C. DEVEREAUX, Detroit, Mich. Filed Apr. 5, 1926. Serial No. 17,179. Term of patent 3½ years.



The ornamental design for an automobile door handle or similar article, as shown.

76,672. DISPLAY STAND. ERVIN R. ELLIS, Washington, D. C., assignor of three-fifths to Goldberg Brothers Company, Inc., Richmond, Va. Filed Feb. 27, 1928. Serial No. 25,602. Term of patent 3½ years.



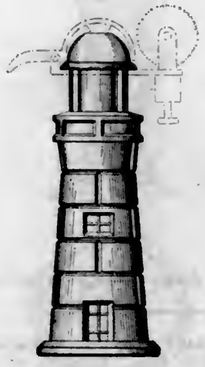
The ornamental design for a display stand, as shown.

76,673. GOBLET. MINOS L. FLETCHER, Nashville, Tenn. Filed Aug. 2, 1928. Serial No. 27,669. Term of patent 7 years.



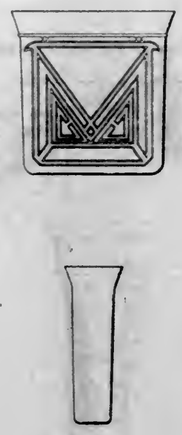
The ornamental design for goblet as shown.

76,674. BODY FOR A PORTABLE CIGARETTE AND CIGAR LIGHTER. IRVING FLORMAN, New York, N. Y. Filed Feb. 21, 1928. Serial No. 25,510. Term of patent 3½ years.



The ornamental design for a body for a portable cigarette and cigar lighter, as shown and described.

76,675. EDIBLE CONTAINER. DAVID GERBER, Baltimore, Md. Filed Aug. 10, 1928. Serial No. 27,765. Term of patent 3½ years.



The ornamental design for an edible container as shown.

76,676. ICE-CREAM CONE. DAVID GERBER, Baltimore, Md. Filed Aug. 10, 1928. Serial No. 27,766. Term of patent 3½ years.



The ornamental design for an ice cream cone as shown.

76,677. ICE-CREAM CONE. DAVID GERBER, Baltimore, Md. Filed Aug. 10, 1928. Serial No. 27,768. Term of patent 3½ years.



The ornamental design for an ice cream cone as shown.

76,678. ICE-CREAM CONE. DAVID GERBER, Baltimore, Md. Filed Aug. 10, 1928. Serial No. 27,769. Term of patent 3½ years.



The ornamental design for an ice cream cone as shown.

76,679. ICE-CREAM CONE. DAVID GERBER, Baltimore, Md. Filed Aug. 10, 1928. Serial No. 27,770. Term of patent 3½ years.



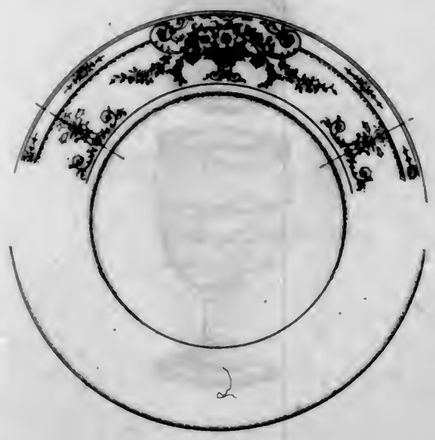
The ornamental design for an ice cream cone as shown.

76,680. ICE-CREAM CONE. DAVID GERBER, Baltimore, Md. Filed Aug. 10, 1928. Serial No. 27,771. Term of patent 3½ years.



The ornamental design for an ice cream cone as shown.

76,681. DISH OR SIMILAR ARTICLE. WILLIAM P. GRAHAM, New York, N. Y. Filed June 5, 1928. Serial No. 26,997. Term of patent 7 years.



The ornamental design for a dish or similar article substantially as shown and described.

76,682. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1928. Serial No. 26,300. Term of patent 3½ years.



The ornamental design for a table or similar article as shown.

76,683. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 13, 1928. Serial No. 26,309. Term of patent 3½ years.



The ornamental design for a table or similar article as shown.

76,684. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1928. Serial No. 26,351. Term of patent 3½ years.



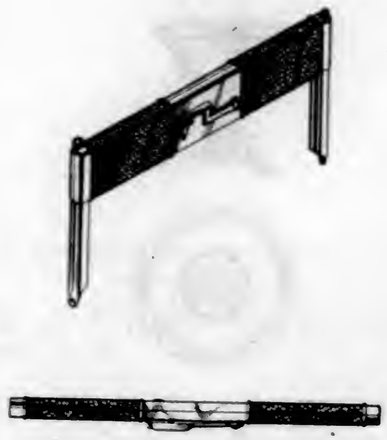
The ornamental design for a table or similar article as shown.

76,685. BAG FRAME. WILLIAM C. HIERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed June 8, 1928. Serial No. 27,052. Term of patent 3½ years.



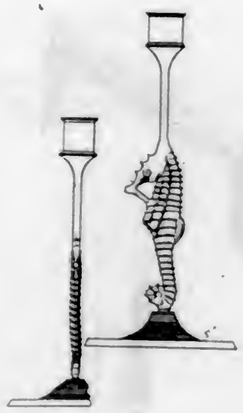
The ornamental design for a bag frame as shown.

76,686. BAG FRAME. WILLIAM C. HIERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed June 8, 1928. Serial No. 27,053. Term of patent 3½ years.



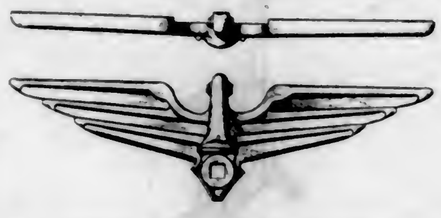
The ornamental design for a bag frame as shown.

76,687. ARTISTIC BRONZE CANDLESTICK OR SIMILAR ARTICLE. EDWARD T. HURLEY, Cincinnati, Ohio. Filed Mar. 12, 1928. Serial No. 25,801. Term of patent 7 years.



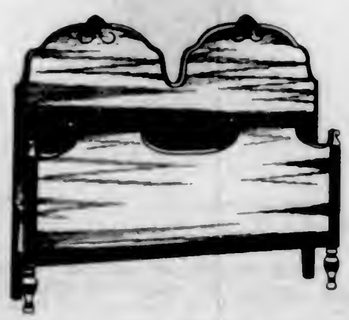
The ornamental design for an artistic bronze candlestick or similar article as shown.

76,688. CLAMP FOR VEHICLE BUMPERS. HERBERT S. JANDUS and CHARLES E. RASMUSSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed May 19, 1927. Serial No. 22,071. Term of patent 14 years.



The ornamental design for a clamp for vehicle bumpers, substantially as shown.

76,689. BEDSTEAD. GEORGE C. JORGENSEN, Red Wing, Minn. Filed Dec. 10, 1927. Serial No. 24,448. Term of patent 3½ years.



The ornamental design for a bedstead, as shown.

76,690. STOCKING. NATHANIEL JUDSON, New York, N. Y. Filed June 6, 1927. Serial No. 22,348. Term of patent 14 years.



The ornamental design for a stocking, substantially as shown and described.

76,691. RING. CHARLES HUBERT LEE, Los Angeles, Calif., assignor of one-half to Leigh J. Monson, Fargo, N. Dak. Filed May 21, 1928. Serial No. 26,778. Term of patent 7 years.



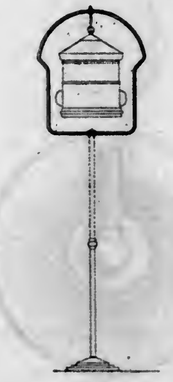
The ornamental design for a ring, as shown.

76,692. LOOP FOR BIRD-CAGE STANDS. LEWICKI J. LEON, West Chicago, Ill. Filed Dec. 12, 1927. Serial No. 24,450. Term of patent 14 years.



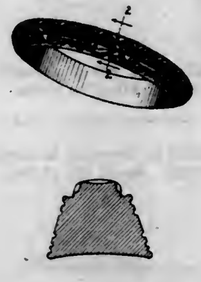
The ornamental design for a loop for bird cage stands, as shown.

76,693. LOOP FOR BIRD-CAGE STANDS. LEWICKI J. LEON, West Chicago, Ill. Filed Dec. 12, 1927. Serial No. 24,451. Term of patent 14 years.



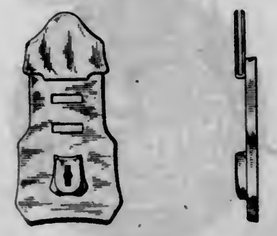
The ornamental design for a loop for bird cage stands, as shown.

76,694. FINGER RING. MAX LEPOW, Newark, N. J., assignor to The H. A. Wilson Company, Newark, N. J., a Corporation of New Jersey. Filed May 19, 1928. Serial No. 26,771. Term of patent 3½ years.



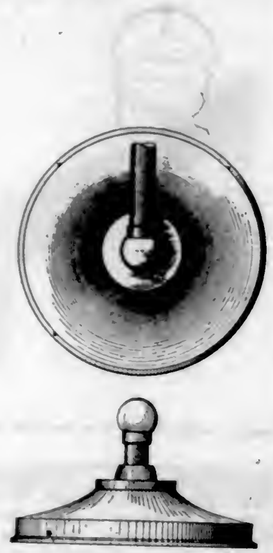
The ornamental design for a finger ring, as shown.

76,695. BRIEF-CASE LOCK OR SIMILAR ARTICLE. MITCHELL LEVENTHAL, Brooklyn, N. Y. Filed Nov. 18, 1927. Serial No. 24,200. Term of patent 7 years.



The ornamental design for a brief case lock or similar article as shown.

76,696. PEDESTAL DOME FOR PERMANENT-HAIR-WAVING MACHINES. WALTER E. LIPPERT, Hewlett, N. Y., assignor to Samuel Bonat & Bro., New York, N. Y., a Copartnership. Filed Nov. 18, 1927. Serial No. 24,199. Term of patent 14 years.



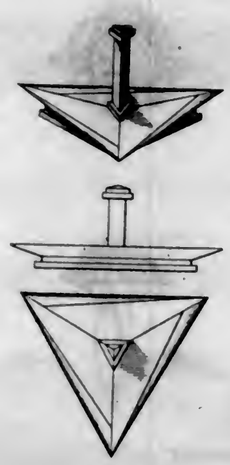
The ornamental design for a pedestal dome for permanent hair waving machines, as shown.

76,697. CAMP STOVE. STANLEY MAJEWSKI, Chicago, Ill. Filed Aug. 11, 1928. Serial No. 27,794. Term of patent 3½ years.



The ornamental design for a camp stove, as shown.

76,698. SANDWICH TRAY OR SIMILAR ARTICLE. ROBERT E. MCELDOWNEY, New Martinsville, W. Va., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed July 25, 1928. Serial No. 27,579. Term of patent 3½ years.



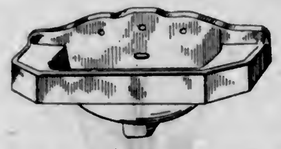
The ornamental design for a sandwich tray or similar article, as shown.

76,699. CONSOLE BOWL OR SIMILAR ARTICLE. ROBERT E. MCELDOWNEY, New Martinsville, W. Va., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed July 25, 1928. Serial No. 27,580. Term of patent 3½ years.



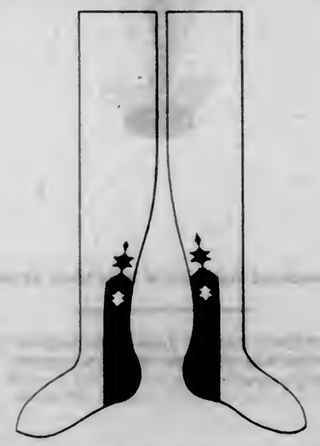
The ornamental design for a console bowl or similar article, as shown.

76,700. LAVATORY BOWL. CHARLES B. NASH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 25,520. Term of patent 14 years.



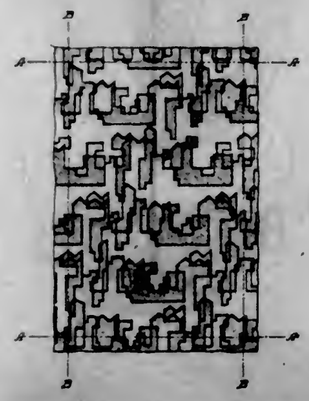
The ornamental design for a lavatory bowl, substantially as shown.

76,701. STOCKING. ERNST OSCAR NEBEL, Philadelphia, Pa., assignor to Oscar Nebel Co., Inc., Hatboro, Pa., a Corporation of Pennsylvania. Filed Dec. 9, 1927. Serial No. 24,420. Term of patent 7 years.



The ornamental design for a stocking substantially as shown.

76,702. COVER PAPER OR THE LIKE. WILLIAM B. PITTS, New York, N. Y., assignor to Whiting-Patterson Company, Inc., a Corporation of Pennsylvania. Filed June 23, 1928. Serial No. 27,244. Term of patent 3½ years.



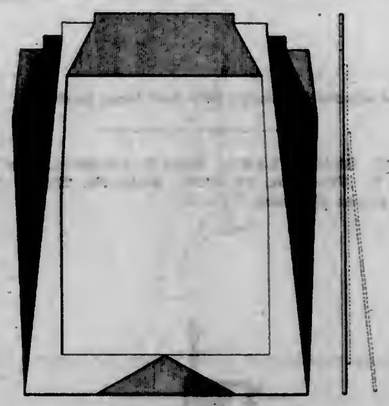
The ornamental design for cover paper or the like as shown and described.

76,703. ADVERTISING PEDESTAL. ETHEL L. POST, Los Angeles, Calif., assignor to Mutual Orange Distributors, Redlands, Calif., a Corporation of California. Filed June 25, 1928. Serial No. 27,273. Term of patent 14 years.



The ornamental design for an advertising pedestal, as shown.

76,704. PICTURE FRAME OR SIMILAR ARTICLE. LOUIS W. RICE, New York, N. Y., assignor to Bernard Rice's Sons, Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1928. Serial No. 26,752. Term of patent 7 years.



The ornamental design for a picture frame or similar article, as shown.

76,705. CLOCK DIAL. MORRIS SALINGER, New York, N. Y., assignor of one-half to Emanuel D. Stein, New York, N. Y. Filed Feb. 11, 1928. Serial No. 25,409. Term of patent 14 years.



The ornamental design for a clock dial as shown.

76,706. FLOOR LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Aug. 22, 1928. Serial No. 27,922. Term of patent 3½ years.



The ornamental design for a floor lamp, as shown.

76,707. BRIDGE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Aug. 22, 1928. Serial No. 27,923. Term of patent 3½ years.



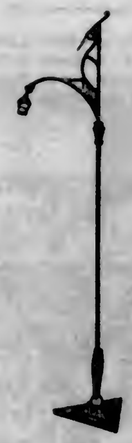
The ornamental design for a bridge lamp, as shown.

76,708. TABLE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Aug. 22, 1928. Serial No. 27,924. Term of patent 3½ years.



The ornamental design for a table lamp, as shown.

76,709. BRIDGE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Aug. 22, 1928. Serial No. 27,925. Term of patent 3½ years.



The ornamental design for a bridge lamp, as shown.

76,710. TABLE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Aug. 22, 1928. Serial No. 27,926. Term of patent 3½ years.



The ornamental design for a table lamp, as shown.

76,711. RADIATOR CAP. WILLIAM SCHNELL, Detroit, Mich., assignor to Ternstedt Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed June 21, 1928. Serial No. 27,211. Term of patent 7 years.



The ornamental design for a radiator cap as shown.

76,712. AUTOMOBILE FRONT END DECORATION. ROBERT G. SEALS and EDWARD N. C KUNTZ, St. Louis, Mo. Filed Jan. 23, 1928. Serial No. 25,003. Term of patent 7 years.



The ornamental design for an automobile front end decoration as shown.

76,713. FAUCET. SHERMAN SMITH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 25,501. Term of patent 14 years.

The ornamental design for a faucet, substantially as shown.

76,714. FAUCET. SHERMAN SMITH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 25,507. Term of patent 14 years.



The ornamental design for a faucet, substantially as shown.

76,715. COMBINATION LIGHT FIXTURE AND SPEAKER. FRED A. STANDIFORD, Kansas City, Mo. Filed Aug. 27, 1928. Serial No. 27,975. Term of patent 7 years.

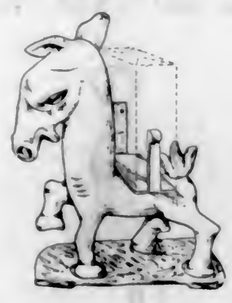


The ornamental design for a combination light fixture and speaker, as shown.

76,716. PIPE HOLDER OR SIMILAR ARTICLE. MITTELDORFER STRAUS, New York, N. Y. Filed Aug. 22, 1928. Serial No. 27,914. Term of patent 3½ years.

The ornamental design for a pipe holder, or similar article, as shown.

76,717. CIGARETTE HOLDER. MITTELDORFER STRAUS, New York, N. Y. Filed Aug. 22, 1928. Serial No. 27,915. Term of patent 3½ years.



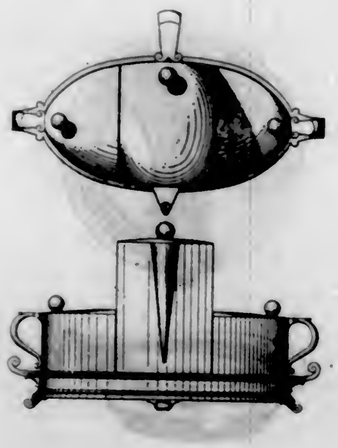
The ornamental design for a cigarette holder, or similar article, as shown.

76,718. CIGARETTE HOLDER OR SIMILAR ARTICLE. MITTELDORFER STRAUS, New York, N. Y. Filed Aug. 22, 1928, Serial No. 27,916. Term of patent 3½ years.



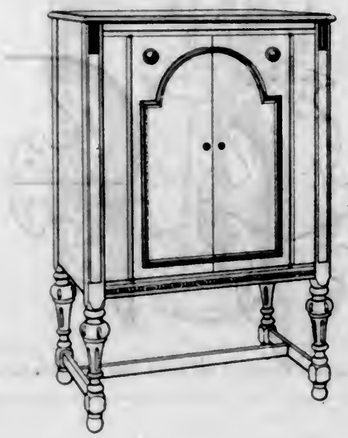
The ornamental design for a cigarette holder, or similar article, as shown.

76,719. TABLE SET. JEAN G. THEOBALD, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Aug. 1, 1928. Serial No. 27,657. Term of patent 7 years.



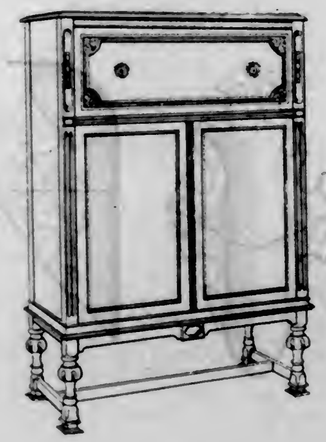
The ornamental design for a table set as shown.

76,720. CABINET FOR RADIORECEIVERS. JAMES TILLOTSON, Jr., Jamestown, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed June 11, 1927. Serial No. 22,395. Term of patent 7 years.



The ornamental design for a cabinet for radioreceivers as shown.

76,721. CABINET FOR RADIORECEIVERS. JAMES TILLOTSON, Jr., Jamestown, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed June 11, 1927. Serial No. 22,396. Term of patent 7 years.



The ornamental design for a cabinet for radioreceivers as shown.

76,722. BRIDGE MEMBER FOR AN OPHTHALMIC MOUNTING. JOHN I. TWOMBLY, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 1, 1928. Serial No. 25,628. Term of patent 14 years.



The ornamental design for a bridge member for an ophthalmic mounting, substantially as shown and described.

76,723. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,256. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,724. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 24, 1928. Serial No. 26,843. Term of patent 3½ years.



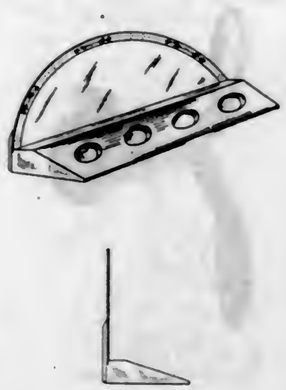
The ornamental design for a drapery pole bracket, as shown.

76,725. NARROW WOVEN TRIMMING. CHARLES S. WACKERMAN, Bridgeport, Conn., assignor to The American Fabrics Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 23, 1928. Serial No. 27,240. Term of patent 3½ years.



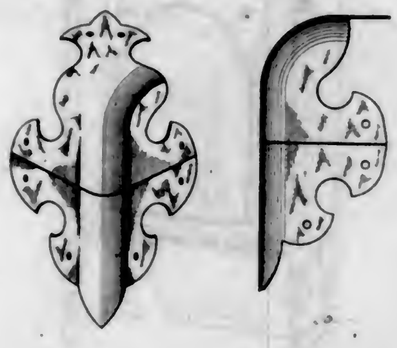
The ornamental design for narrow woven trimming substantially as shown.

76,726. COSMETIC DISPLAY STAND. HERMAN WALDMAN, Chicago, Ill. Filed Aug. 14, 1928. Serial No. 27,815. Term of patent 3½ years.



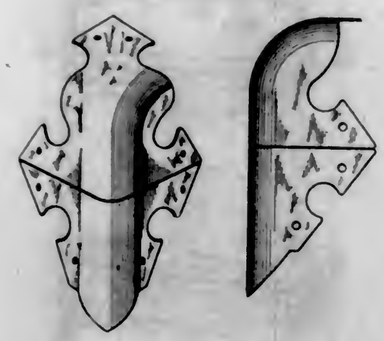
The ornamental design for a cosmetic display stand, as shown.

76,727. CORNER PIECE FOR A TRUNK OR SIMILAR ARTICLE. EMIL ZAVITOVSKY and CHRISTIAN J. LINS, Milwaukee, Wis., assignors to McKane-Lins Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 7, 1928. Serial No. 27,037. Term of patent 7 years.



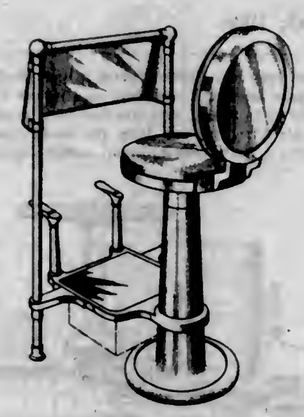
The ornamental design for a corner piece for a trunk, or similar article, as shown.

76,728. CORNER PIECE FOR A TRUNK OR SIMILAR ARTICLE. EMIL ZAVITOVSKY and CHRISTIAN J. LINS, Milwaukee, Wis., assignors to McKane-Lins Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 7, 1928. Serial No. 27,038. Term of patent 7 years.



The ornamental design for a corner piece for a trunk or similar article, as shown.

76,729. SHOE-SHINING SEAT. HERMAN E. SCHULSE, New York, N. Y., assignor to H. E. Schulse, Inc., a Corporation of New York. Filed June 5, 1928. Serial No. 26,993. Term of patent 14 years.



The ornamental design for a shoe shining seat as shown.

76,730. STOCKING. WALTER E. ZANDER, Philadelphia, Pa., assignor to Schletter & Zander, Inc., Frankford, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1926. Serial No. 19,719. Term of patent 14 years.

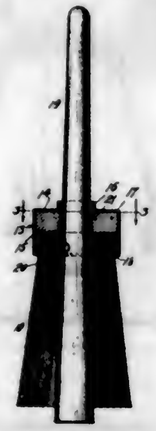


The ornamental design for a stocking, as shown.

PATENTS

GRANTED OCTOBER 23, 1928.

1,688,318. BRUSH. ANDREW ALBRIGHT, Jr., Miami Beach, Fla. Filed June 9, 1926. Serial No. 114,673. 2 Claims. (Cl. 15—204.)



1. In a brush of the character described, the combination of a one piece sheet metal cap, comprising an apertured top, a skirt, and a neck which extends from the aperture in the top, a non-metallic plug in the cap, bristles having their butts cemented together and disposed in the skirt of the cap, a metallic ring tightly secured on the cemented butts of the bristles and provided with holes, the plug being located between the cap-top and the cemented butts, a tapering handle, the larger end of which extends within the butts and tightly fits the aperture and the neck and wedges the cemented butts of the bristles in the cap, the neck providing an extended bearing surface throughout for the handle, and fastening nails extending through the skirt, the holes in the ring, the cemented butts and into the handle.

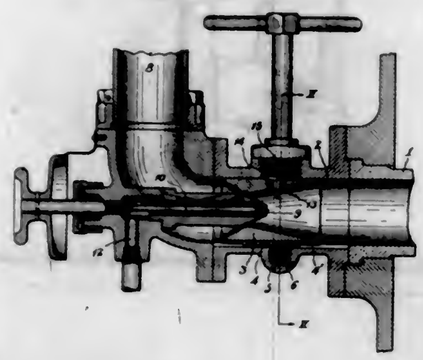
1,688,319. COOKING MOLD. AMBER ALLIS, Milwaukee, Wis. Filed June 27, 1927. Serial No. 201,796. 6 Claims. (Cl. 53—7.)



1. A cooking mold comprising a conical foraminous body having an open base, and a handle arranged above said base.

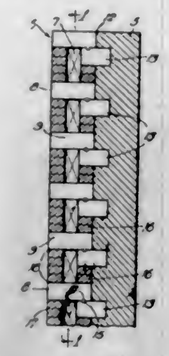
1,688,320. MIXING DEVICE FOR OIL-GAS APPARATUS. ALVIN J. BASSETT, Milwaukee, Wis., assignor to The Bruce Macbeth Engine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 12, 1925. Serial No. 68,543. 2 Claims. (Cl. 158—76.)

1. In a mixing device for oil-gas apparatus, the combination of a mixing tube; a Venturi-tube mounted therein, said Venturi-tube being formed with a rack portion; a co-operating gear engaging said rack and means for driving said gear so as to adjust said Venturi-tube in said mixing tube; an air pipe opening into the small end of said Venturi-tube; a valve-controlled oil nozzle extending into



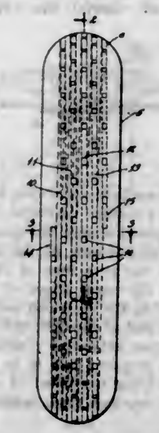
said Venturi-tube within said air pipe, said mixing and Venturi-tubes being provided with registering apertures; and a closure for the aperture in the mixing tube, said latter aperture being of larger diameter than the registering aperture of said Venturi-tube.

1,688,321. AIR-COOLED FURNACE-WALL CONSTRUCTION. LYLE STOCKTON ABBOTT, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,412. 5 Claims. (Cl. 72—102.)



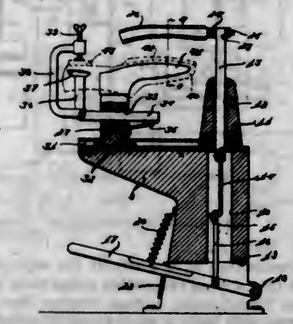
1. An air cooled furnace wall of the character described consisting of an outer section made of brick-like elements, an inner section of brick-like elements of refractory material and spaced from said outer section, and means forming cross-ties between said sections and dividing the space between said sections into a plurality of horizontal ducts connected in series, said means comprising rows of brick-like elements at spaced intervals throughout the height of said wall, alternate rows terminating short of opposite ends of said wall to connect said ducts, said outer wall having means therein interlocking with said cross-ties to prevent them from moving away from said outer wall.

1,688,322. TIRE. ANDREW ALEXANDER, New York, N. Y. Filed Sept. 1, 1926. Serial No. 132,947. 1 Claim. (Cl. 152—16.)



In a tire of the class described, a strip of rigid material imbedded in the tread portion of the tire and in spiral arrangement circumferentially thereof, the coils of said strip being in spaced relation and separated by the rubber body in said tread portion and the separate windings of said strip having integral and outwardly projecting members arranged in a circumferentially and transversely spaced relation with reference to the tread position of the tire and with the outer faces of said members exposed through and lying flushly with the tread portion of the tire.

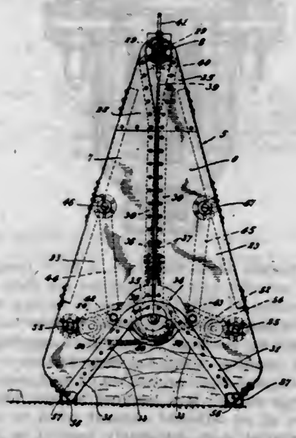
1,688,323. SHOE PRESS. JOSEPH AMICO, Detroit, Mich. Filed Dec. 29, 1927. Serial No. 243,265. 4 Claims. (Cl. 12—38.)



1. A shoe press of the class described, comprising; a supporting standard; a last supporting member mounted on said standard; a last on said last supporting member; a heel engaging member projected through a slot formed in said last supporting member and movable inwardly and outwardly therefrom; means mounted movably on said standard for clamping a sole against said last; and screw operated means for pressing the heel against said heel engaging member.

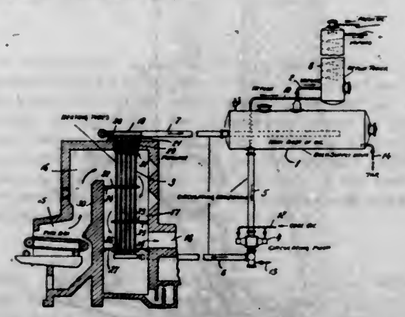
1,688,324. BUCKET. HERBERT S. ATKINSON, East Orange, N. J., assignor to The Hayward Company, New York, N. Y., a Corporation of New York. Filed Nov. 6, 1925. Serial No. 67,239. 11 Claims. (Cl. 37—184.)

1. In a bucket, the combination of a plurality of bowl sections pivotally mounted with respect to each other, operating mechanism suspended within said bucket, a support for said operating mechanism, flexible means for raising and lowering said operating mechanism, flexible members adapted to co-act with said operating means having connection therewith and said support, and pivotal means connecting said bowl sections to the opposite sides of said support.



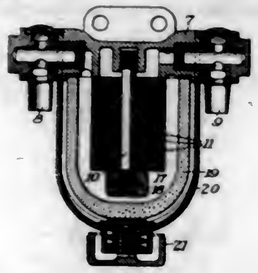
4. In a bucket, the combination of a pair of pivoted bowl sections, pivoted to permit a relatively large leverage to said sections, anti-digging means comprising transverse runners having their bottom surfaces flush with the cutting edges of said bowl sections, winding means suspended within said bucket and flexible means for closing said sections during the descent of said winding means.

1,688,325. ART OF CRACKING HYDROCARBONS. JOHN B. BELL, deceased, Brooklyn, N. Y., by Lola R. Bell, executrix, Brooklyn, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed Jan. 22, 1925. Serial No. 3,985. 4 Claims. (Cl. 196—59.)



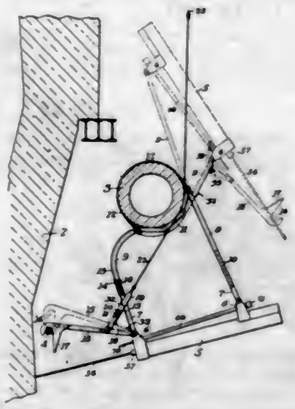
2. The improvement in the operation of externally heated pressure stills for cracking hydrocarbon oils, which comprises circulating oil from a bulk supply drum to the lower end of vertically arranged heating tube and thence upwardly through the heating tubes and back to the bulk supply drum from the upper end of the heating tubes, heating the oil to the cracking temperature in the heating tubes by passing hot products of combustion from a fire-box first in contact with the upper end of the heating tubes and thence downwardly over the heating tubes, and preventing direct radiation from the fire-box to all parts of the heating tubes, whereby uniform distribution of the heat absorption is promoted and the oil is brought to the maximum cracking temperature as it leaves the upper end of the heating tubes and is discharged to the bulk supply drum.

1,688,326. FILTER. ANTONIN BOULADE, Lyon, France, assignor to Societe du Carburateur Zenith, Lyon, France, a Corporation of France. Filed Sept. 16, 1925. Serial No. 56,651. 2 Claims. (Cl. 210—165.)



1. As an article of manufacture, a filter comprising a body having an inlet and an outlet for the fluid to be filtered, a plurality of filtering elements having annularly extending filtering surfaces and substantially radially extending supporting portions, providing an opening through the elements adapted, when the elements are assembled, to form an internal chamber, certain of said elements having projections on one face adapted to abut against the plane surface of an adjacent element when in assembled relation, a central stem detachably secured to said body and cooperating with the supporting portions of said elements for maintaining the elements in proper cooperative relation, said stem having an enlargement thereon for preventing accidental removal of the elements therefrom when the stem and elements are removed from said body, clamping means for the elements on said stem, and a closure forming a chamber around said elements.

1,688,327. FURNACE-TAPPING MACHINE. EDGAR E. BASSIUS, Pittsburgh, Pa. Filed Nov. 26, 1924. Serial No. 752,361. 12 Claims. (Cl. 266—42.)



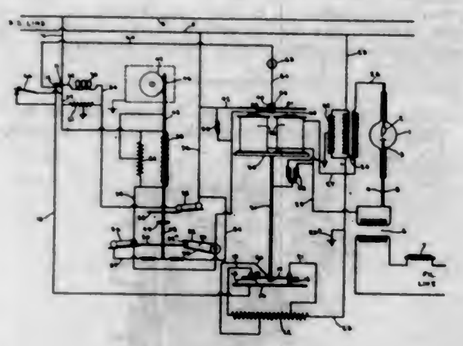
3. Blast furnace tapping apparatus, comprising a rotatable drill, suspension means therefor comprising a plurality of links pivotally connected adjacent the end and arranged to permit the drill to be swung into substantially horizontal tapping position or into substantially vertical inoperative position, means carried by said apparatus remote from the drill and entirely rearwardly of said links for imparting continuous rotation thereto with the drill in any position, and means for protecting said last-mentioned means from the heat of the furnace being tapped, substantially as described.

1,688,328. BELT BUCKLE. JOHN B. FREYSINGER, New Britain, Conn., assignor to Kriecher's Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 28, 1926. Serial No. 157,435. 2 Claims. (Cl. 24—163.)



1. A belt buckle comprising a frame having an opening subdivided by a bar, a tongue mounted on the said frame bar and adapted to extend across the opening with one end overlying the frame at one side of the opening, a pair of ears extending from the rear face of the frame bar and lying inwardly from the outer edges of the frame, and a gripping bar mounted in the ears and cooperating with the frame bar to grip the end of the belt, this gripping bar having an operating portion extending toward one edge of the frame bar when the gripping bar is in effective position, the said portion overlying the point of attachment of the tongue to the frame bar but lying within the outlines of the frame bar.

1,688,329. VACUUM-TUBE-EVACUATING APPARATUS. ARTHUR A. GROTHE, Chicago, Ill. Filed Apr. 22, 1925. Serial No. 25,033. 12 Claims. (Cl. 250—34.)

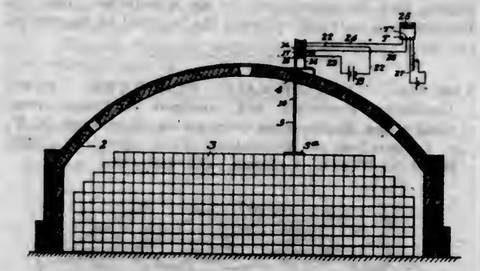


4. The combination with a circuit for supplying energy to a vacuum tube during evacuation comprising a main line to a step-up transformer, a high tension line from said transformer to said tube, a time actuated relay automatically terminating the admission of energy to said tube, a signal for indicating increase in the vacuum in said tube, and manually controlled means for increasing the volume of energy admitted to said tube, of an armature adapted to be actuated by the energy flowing through said tube to control said means for terminating the flow of current to said tube.

1,688,330. APPARATUS FOR MEASURING THE SHRINKAGE OF MATERIALS. FRANKLIN W. GUNTHER and GEORGE P. FISHER, Ottawa, Ill., assignors to National Fire Proofing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 15, 1925. Serial No. 50,402. 5 Claims. (Cl. 177—351.)

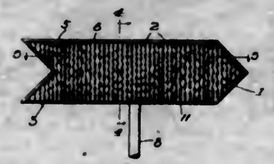
1. The combination with a material-drying chamber, of a rod projecting into said chamber and movable in accordance with variations in the dimensions of the material

therein, and indicating means cooperating with said rod and enabling the determination of the amount of move-



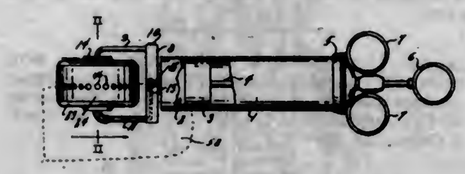
ment thereof, said indicating means including a resistance circuit, and means for varying the resistance therein, substantially as described.

1,688,331. ROAD SIGN OR SIGNAL. SAMUEL E. W. HAINES, Berkeley, Calif. Filed Oct. 24, 1923. Serial No. 670,611. 1 Claim. (Cl. 88—1.)



In a signal of the class described, a plate of transparent material having a plane reflecting back surface and a fluted front surface, the signal being adapted to disperse therefrom a beam of light fan-shaped in a substantially horizontal plane when the plate is positioned vertically with the flutes thereof vertical and at a desired point in the road.

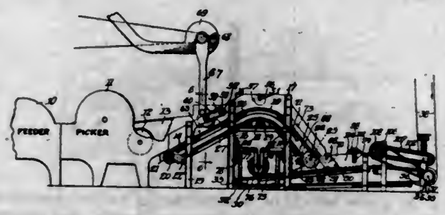
1,688,332. ANÆSTHETIZING. JOHN B. HECK, Jr., and JOSEPH J. SWEENEY, Toledo, Ohio. Filed June 27, 1927. Serial No. 201,583. 6 Claims. (Cl. 128—215.)



1. A local anæsthetic administering tool comprising a handle, a traveling carrier movable as to the handle, a hypodermic needle positioned by the handle and as to which the carrier is movable, and actuating connections from the carrier for reciprocating the needle as to the carrier.

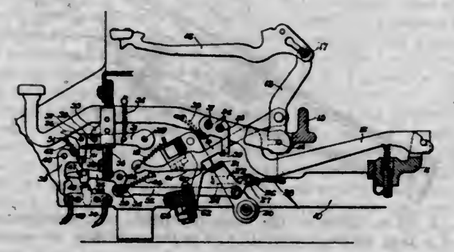
1,688,333. PROCESS AND APPARATUS FOR MAKING COMPOSITE MATTRESSES. JACOB H. HIRSCH, Atlanta, Ga., and JOHN F. GAIL, Evanston, Ill., assignors to Simmons Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 23, 1925. Serial No. 58,211. 4 Claims. (Cl. 19—145.)

1. Apparatus for making composite mattresses, comprising a lower travelling apron for supporting and propelling a layer of felted fiber, and an upper travelling apron arranged to deliver a continuous body of filling material upon the surface of the felted fiber layer, carried by said lower apron, and at a point intermediate of the length of said lower apron, said aprons, rearwardly of said delivery



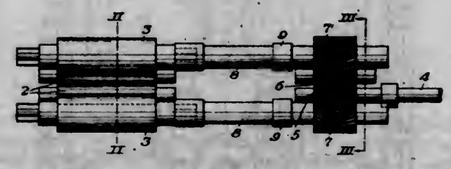
point, being spaced apart a sufficient distance to accommodate a roll which serves as a supply source for said under layer.

1,688,334. POWER-ACTUATING MECHANISM FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed June 27, 1925 Serial No. 39,935. 10 Claims. (Cl. 197—14.)



1. In a typewriter having key levers and type bars, the combination with an oscillating driver, an electrical device for operating said driver, means controlled by any one of a plurality of key levers for closing the circuit of said electrical device, said closing means including a spring-closed switch, trigger mechanism for holding said switch open, and a member common to a plurality of key levers and mechanically operable thereby for tripping said trigger mechanism to permit said switch to close.

1,688,335. ROLLING MILL. LORENZ-IVERSEN, Pittsburgh, Pa., assignor to Mesta Machine Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 5, 1926. Serial No. 127,296. 2 Claims. (Cl. 80—38.)



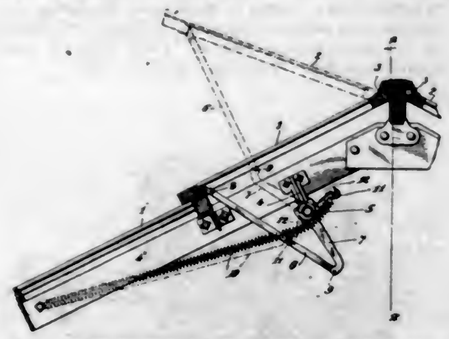
1. A rolling mill, comprising a pair of working rolls each having a plurality of positively driven backing-up rolls, and a single drive means for the several backing-up rolls.

1,688,336. BATTERY SEPARATOR. WILLIAM L. KANN, Pittsburgh, Pa.; The Bank of Pittsburgh, N. A., administrator of said William L. Kann, deceased. Filed Nov. 15, 1927. Serial No. 233,383. 4 Claims. (Cl. 136—149.)



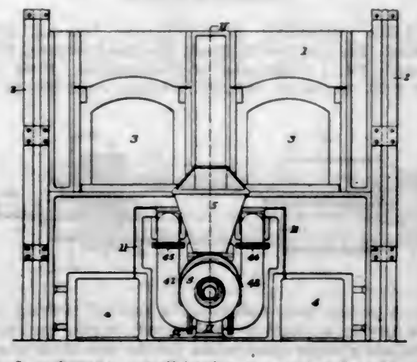
1. As a new article of manufacture, a battery separator made of a wood of the Myristicaceæ family, and having characteristics suitable for battery separators.

1,688,337. SASH OPERATOR FOR GREENHOUSES. THOMAS EDWARD KING, Westfield, N. J., assignor to Hitchings & Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 4, 1924. Serial No. 747,730. 4 Claims. (Cl. 268—24.)



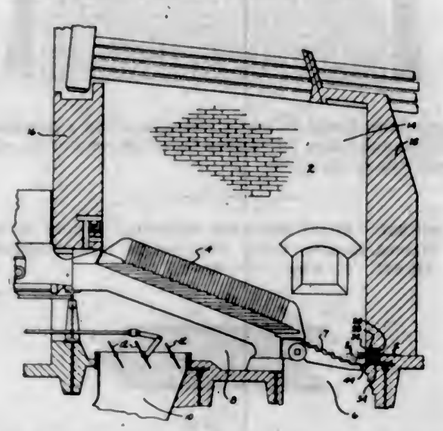
1. In a device of the class described, the combination of a sash frame, a plurality of sashes movably connected thereto, a toggle connected to each sash, a shaft, each toggle being operated by said shaft to raise and lower said sashes, a rock-arm on said shaft, at each sash, an elongated spiral spring for each sash and being secured at one end to said frame and at the other end to said rock-arm, said rock-arm being so positioned as to carry said spring into inoperative position when said sash is closed and to carry it into operative position as said shaft is operated to open the sash.

1,688,338. STOKER. OLIVER P. LUETSCHER, Pittsburgh, Pa. Filed Mar. 13, 1922. Serial No. 543,221. 3 Claims. (Cl. 110—47.)



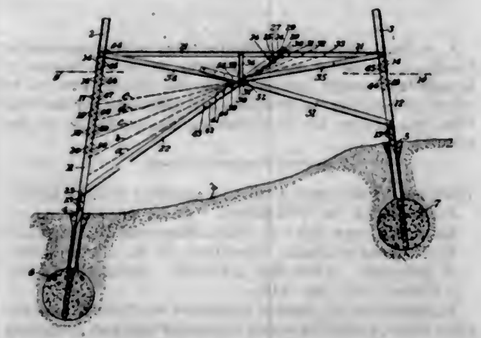
1. In a furnace, a wall having an opening therethrough, a stoker extending through the opening into the furnace, the stoker having a retort, and a tuyère along the edge of the retort, the stoker having an opening from the interior to the exterior of the furnace through which the tuyère may be introduced to or withdrawn from the furnace as a unit and without the removal of the stoker.

1,688,339. FURNACE-WALL STRUCTURE. EDWIN LUNDGREN, Frederick, Md., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 22, 1925. Serial No. 57,811. 4 Claims. (Cl. 110—81.)



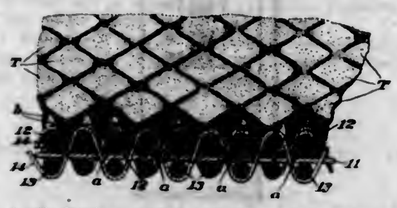
1. A furnace chamber having at least one of its walls provided with an inwardly opening channel horizontally arranged and at least one of the two adjacent walls provided with an opening in alinement with said channel, a spray pipe extending through said opening and channel and removable therefrom, a housing enclosing said pipe, made in sections and inserted in said channel, each section having a longitudinally extending opening in its inner wall spaced a distance from the upper edge thereof, and a face plate removably inserted in said wall directly beneath said housing and forming a part of the inner side of said wall, said face plate and housing sections having engaging portions for detachably holding the housing in place.

1,688,340. ADJUSTABLE LEG EXTENSION FOR TOWERS. IRA W. MARSHALL, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Jan. 17, 1925. Serial No. 3,067. 1 Claim. (Cl. 189—21.)



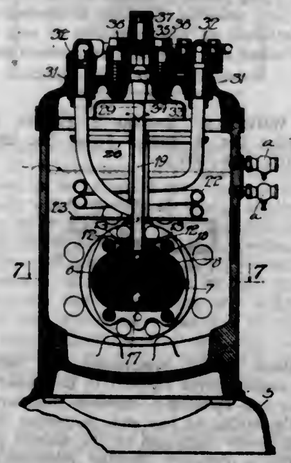
A structural tower having a plurality of legs and a leg foundation for each leg, a leg extension between one leg and its foundation and connected to each, a diagonally extending bracing element connected to said leg extension at one of its ends and having its other end connected with a cross girt between the two legs, a vertical member on the cross girt, diagonals extending from each leg adjacent the cross girt to the vertical member, and another diagonal connected with the other leg and with the said vertical member.

1,688,341. WOVEN PILE FABRIC. HOWARD MASON, Saxonville, Mass. Filed Oct. 1, 1927. Serial No. 223,403. 5 Claims. (Cl. 139—403.)



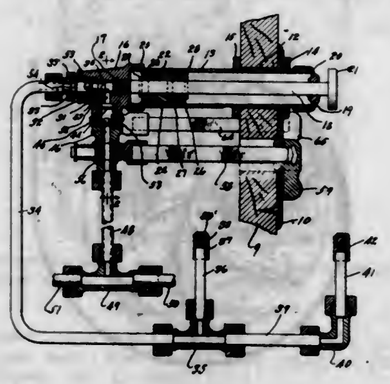
1. A pile fabric provided with diamond shaped pile tufts that blend together to produce a herring-bone design in the face of the pile and formed of pile warp threads woven in the fabric so that each pile forming loop is secured to the ground fabric by two soft elastic weft threads lying within the loop and the loops formed by two adjacent pile warp threads being arranged in staggered relation, weft threads laid at the back of the fabric to correspond in number to the first mentioned weft threads, stuffer warp threads laid between the two sets of weft threads, and a single binder thread laid between each pair of pile forming threads and arranged to permit the tuft forming threads to spread laterally and assume a diamond-shape that causes the tufts to blend together to form a clearly discernible herring-bone design in the face of the fabric.

1,688,342. PUMP FOR REFRIGERATING APPARATUS. CHARLES L. MCCUEN, Chicago, Ill., assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Jan. 17, 1920. Serial No. 352,039. 10 Claims. (Cl. 230—141.)



1. In a refrigerating apparatus, the combination with a pump chamber and the pump therefor, of a removable cover for the chamber, cooling coils attached to and depending from the cover, a plate forming a support for the coils, means attached to the cover for supporting the plate, and a drip plate also supported by said means intermediate said first plate and the cover.

1,688,343. COMBINATION PRIMER, FUEL ECONOMIZER, AND HUMIDIFIER. OTTO G. MOLL, Detroit, Mich. Filed Jan. 16, 1926. Serial No. 81,672. 1 Claim. (Cl. 123—25.)



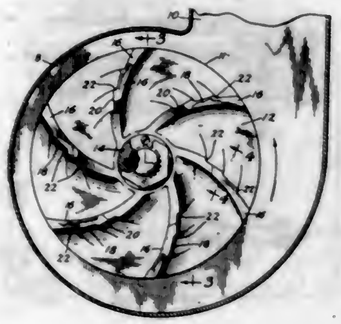
In a device of the class described adapted for use on internal combustion engines having an intake manifold, comprising: ejector nozzles communicating with said manifold; a delivery pipe communicating at one end with said nozzles; a head connected to said delivery pipe at the opposite end, said head having a plurality of passages formed therein in communication with said delivery pipe; a cylinder communicating with said passages; a piston slidably mounted in said cylinder; a piston rod connected to said piston and extending at one end exteriorly of said cylinder and projecting beyond said piston at the opposite end, said opposite end being tapered to form a needle valve, a portion of said opposite end intermediate said piston and said needle valve forming portion being threaded into said head; a water conduit connected to a suitable source of water supply and communicating with passages in said head; a fuel conduit connected to a suitable source of fuel supply and communicating with said passages in said head, said head having an air passage communicating with the atmosphere, the needle valve forming portion of said rod being adapted, upon a threading of said rod in said head, for controlling communication of said delivery pipe with said sources of fuel, and water supply and the air.

1,688,344. WINDSHIELD ATTACHMENT. ERNST MUNTWYLER, Lucerne, Switzerland. Filed Feb. 21, 1927, Serial No. 169,752, and in Switzerland Feb. 25, 1926. 2 Claims. (Cl. 20—40.5.)



1. The combination with the transparent windshield pane of an automobile or like automotive vehicle, of an observation device secured upon the outer face of said pane in the normal field of vision of the driver, said device comprising a hollow body of transparent material presenting an outer convexly curved moisture shedding face, and means arranged on the concaved side of said body for interiorly heating said body.

1,688,345. CENTRIFUGAL FAN. JOHN MURSCH, and CHARLES F. SCHUTTE, Utica, N. Y., assignors to Buffalo Hammer Mill Corporation, Buffalo, N. Y., a Corporation of New York. Filed Aug. 16, 1927. Serial No. 213,238. 9 Claims. (Cl. 230—134.)



1. In a centrifugal advancing mechanism, a rotatable fan formed with a series of radially outwardly directed blades provided on their forward faces with stepped surfaces.

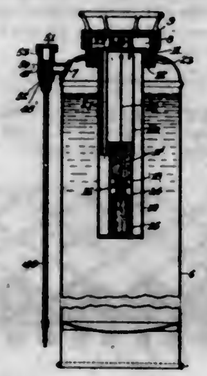
1,688,346. SYSTEM OF ELECTRICAL TRANSMISSION. GIUSEPPE MUSSO, Habana, Cuba. Filed Nov. 17, 1922. Serial No. 601,526. 8 Claims. (Cl. 179—1.)



1. The method of transmitting electric energy by impressing electric impulses on an external circuit having different characteristics from those of the initial impulses, which consists in converting a substantial portion of the energy of a periodic electromotive force circulating in a local circuit at one end of a transmission line into transmission impulses in the form of non-circulating potential energy impressed on the transmission line preventing the circulating charging current of the initial impulse in said local circuit passing on said transmission line, and discharging said impulses to earth at the opposite end of the transmission line utilizing the discharge of said impressed potential impulses through receiving apparatus.

1,688,347. FIRE EXTINGUISHER. GEORGE T. PEARSONS, New York, N. Y. Filed June 28, 1920. Serial No. 392,224. 31 Claims. (Cl. 169—32.)

1. In a fire extinguisher, a liquid container having an outlet above the normal liquid level, an opening in said container having a removable cover, a gas generator supported within the liquid container in substantially axial alignment with said opening, said generator having an outlet which opens therefrom to the exterior thereof at a point located above the normal liquid level of said container in the normal position thereof, gas generating materials in said generator held in a separated condition in the normal inoperative position of the extinguisher and operable to unite when the container is inverted to create



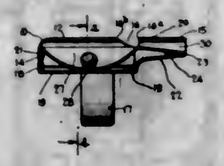
a gas and place the liquid in the container under fluid pressure to eject the liquid from said container.

1,688,348. WHISTLE. EDWARD R. PETRIE, New York, N. Y. Filed Sept. 24, 1926. Serial No. 137,428. 8 Claims. (Cl. 116—137.)



2. A whistle of the class described comprising a hollow body, a mouthpiece portion at one end of said body and opening thereinto, and a mounting ring or loop comprising relatively adjustable arc-shaped members, said ring or loop being pivotally supported in connection with the whistle body whereby said body is adjustable thereon, another mouthpiece at the other end of said body, and means for dividing said body into independent sound chambers.

1,688,349. WHISTLE. EDWARD R. PETRIE, New York, N. Y. Filed Oct. 6, 1927. Serial No. 224,344. 13 Claims. (Cl. 116—137.)



2. A whistle device comprising two independently formed box-shaped parts adapted to be placed one within the other and forming a chamber therebetween, each of said parts having at one end, projecting lip portions forming the mouth piece end of the whistle device, said device having a discharge opening communicating with said chamber, and means for coupling said parts together to prevent accidental displacement and permitting of the separation of said parts at will for cleaning and other purposes, said coupling means being of tongue and groove construction to provide a seal between the separate parts to prevent the escapement of air therebetween, in the operation of the whistle.

1,688,350. METHOD OF MOLDING. CLIFTON D. PETTIS, New York, N. Y. Filed Mar. 13, 1925. Serial No. 15,360. 16 Claims. (Cl. 22—192.)

1. In the method of casting, the step consisting of applying to a molding surface a mixture of fire clay with silica, and thereafter applying oil to said surface and said mixture.

1,688,351. PROCESS FOR THE PRODUCTION OF UNSYMMETRICAL ARSENO COMPOUNDS. JOHANNES PFLEGER, Frankfort-on-the Main, and AUGUST ALBERT, Munich, Germany. Filed Nov. 29, 1924, Serial No. 752,948, and in Austria Apr. 12, 1923. 6 Claims. (Cl. 260—15.)

1. Process for the production of unsymmetrical arsenic compounds which consists in reducing arsenic compounds with carbonyl groups of the general formula:

$$-As-Aryl-\overset{X}{\underset{}{}}\text{carbonyl group}$$

together with arsenic compounds of the general formula

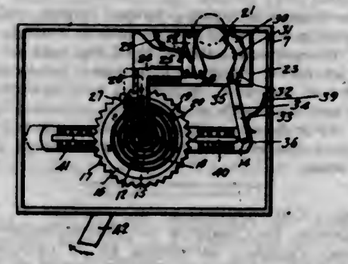
$$-As-Ary'\langle^{X}_{Y},$$

wherein X stands for H, halogen, OR (R being H or an acyl group), NO_2, NH_2,

$$NH.CH_2COOH,\ SO_3H,\ COOH,$$

Y for H, $C\langle^{O}_{H}$, $C\langle^{O}_{CH_3}$, $C\langle^{NOH}_{H}$, $C\langle^{N-NH_2}_{H}$.

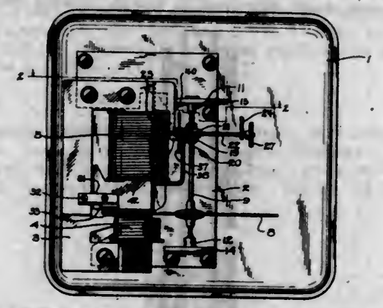
1,688,352. DISPENSER FOR LUBRICATING OILS. SYLVESTER JOSEPH POCOCK, St. Marys, Ontario, Canada, assignor of one-half to John Knox Richardson, St. Marys, Ontario, Canada. Filed Sept. 27, 1926. Serial No. 138,072. 11 Claims. (Cl. 194—67.)



1. In an oil dispenser, the combination with the operating shaft of the dispenser, of a casing having a coin slot and into which the aforesaid shaft extends, a disc secured to the shaft within the casing, a stop adjustable circumferentially upon the disc, means movable longitudinally for locking the disc and shaft from rotation in the dispensing direction and permitting the rotation in the reverse direction, means operated by the insertion of a coin in the coin slot for releasing such locking means to permit the disc and shaft to operate in the dispensing direction and adapted to grip and hold the coin, and means actuated by the stop as the disc is rotated in the dispensing direction for releasing the coin.

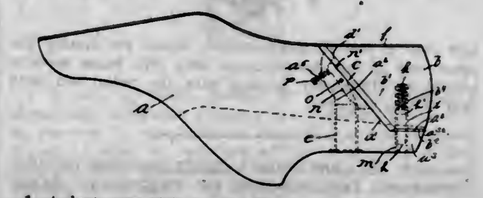
1,688,353. MECHANISM FOR DRIVING AND CONTROLLING ELECTRICITY METERS. RICCARD PUDELKO, Zug, Switzerland, assignor to Landis & Gyr A.-G., a Joint Stock Company of Switzerland. Filed Apr. 11, 1927, Serial No. 182,949, and in Switzerland Apr. 20, 1926. 5 Claims. (Cl. 171—264.)

1. An electricity meter mechanism including in combination registering mechanism, a meter coil and its core, means driven thereby for driving the registering mechanism, a meter disc driven by the meter coil and core and connections whereby the meter disc controls the speed



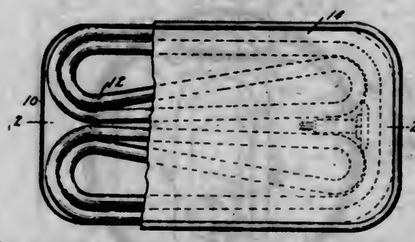
of the driving means for the registering mechanism proportionately to the power consumption.

1,688,354. DIVIDED LAST. GEORGE M. RAY, Newton Center, Mass. Filed Nov. 12, 1926. Serial No. 148,057. 8 Claims. (Cl. 12—135.)



1. A last comprising separable heel and forepart sections having oppositely disposed transverse faces of separation extending obliquely from the last bottom adjacent the rear end of the shank portion rearwardly towards the top and then horizontally, in approximate parallelism with the heel portion of the bottom, to the back end of the last, and means movable to lock said sections against separation when in normal relation.

1,688,355. MEANS AND METHOD FOR PRESERVING PRODUCTS FORMED OF RUBBER. THOMAS M. RECTOR, Rutherford, N. J., assignor to Vitapack Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 8, 1924. Serial No. 748,550. 2 Claims. (Cl 206—46.)



1. In combination, a closed rubber article containing an atmosphere composed substantially of inert gas, a sealed container enclosing the rubber article, and an atmosphere of inert gas surrounding the rubber article within the container.

1,688,356. APPARATUS FOR DRAINING LAND. FREDERICK S. ROMNEY, New York, N. Y. Filed Oct. 20, 1925. Serial No. 63,802. 3 Claims. (Cl. 166—5.)

1. An apparatus for draining land embodying, in combination, a shell composed of a plurality of sections, each perforated substantially over its entire area, a point hav-

ing a connection with the lower end of the shell, an imperforate pipe supported axially within said shell sections and spaced therefrom to provide between the pipe

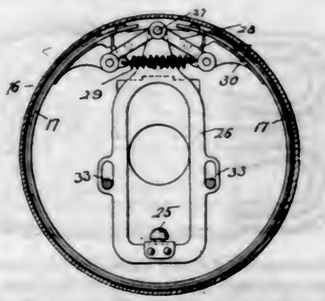


and shell a suction compartment, means for closing the upper end of this compartment, said pipe being movable axially to alternately connect with the point and with said suction chamber.

1,688,357. SULPHUR OF A HIGH DEGREE OF DISPERSION AND PROCESS OF PREPARING SAME. HANS SCHRADER, Essen-Bredeney, and HAROLD SCHOELLER, Essen, Germany. Filed Aug. 14, 1924, Serial No. 731,997, and in Germany Aug. 16, 1923. 3 Claims. (Cl. 23—227.)

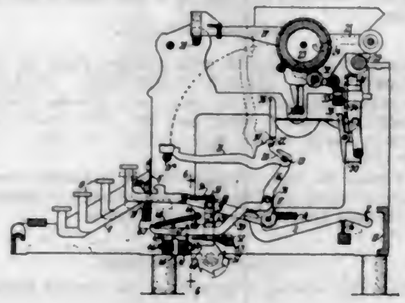
1. Process for the production of sulphur of a high degree of dispersion which consists in dispersing sulphur vapors by means of a gas comprising ammonia, and separating the sulphur from the resulting fume.

1,688,358. VEHICLE BRAKE. FREDERIC W. SLACK, Cleveland, Ohio, assignor, by mesne assignments, to The Peerless Motor Car Corporation, Cleveland, Ohio, a Corporation of Virginia. Filed Apr. 14, 1924. Serial No. 706,319. 7 Claims. (Cl. 188—194.)



3. In combination with a vehicle having a movable steering wheel, a king pin upon which the steering wheel is mounted to turn, a brake drum carried by the wheel, a brake member for engaging the drum, a brake applying member having an operating part adjacent the axis of the king pin, and means positioned within the drum and connecting said brake applying member to said brake member so as to compensate for mis-alignment between the operative end of said brake applying member and the axis of the king pin.

1,688,359. TYPEWRITING MACHINE. HERBERT H. STEELE, Lynbrook, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 18, 1926. Serial No. 136,230. 35 Claims. (Cl. 197—17.)

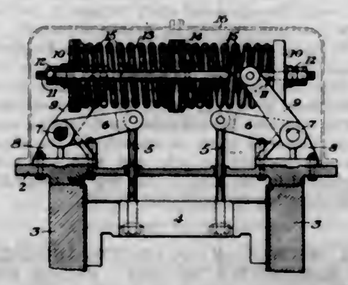


1. In a typewriting machine, the combination of a type-bar mechanism, a disconnected key-lever, a coupler mounted upon the key-lever and connectible with a part of the type-bar mechanism when the key-lever is depressed, and a constantly revolving power-device operative to convey a throw to the depressed coupler to actuate the type-bar, the coupler being self-releasing from said power-device, and the key-lever and type-bar mechanism being returnable to normal position independently of the revolving power-device.

1,688,360. PROCESS OF WELDING. GEORGE N. STEIGERWALD, Philadelphia, Pa., assignor to The Union Trust Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 23, 1923. Serial No. 627,117. 5 Claims. (Cl. 219—10.)

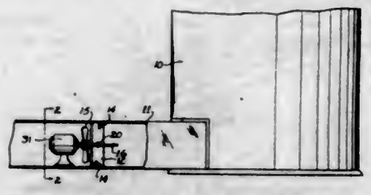
5. The process of welding ferrous articles which comprises placing the articles in substantial contact, welding a seam between said articles along the path of contact thereof whereby to integrally unite said articles, permitting the metal of said seam to solidify, and subsequently retracing said seam with a carbon arc with sufficient heat to melt the surface thereof and to relieve internal stresses and improve the characteristics of the metal of the body of said seam.

1,688,361. COUNTERBALANCE. HOWARD H. TALBOT, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 16, 1923. Serial No. 657,697. 5 Claims. (Cl. 74—71.)



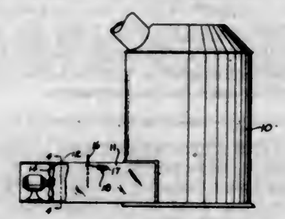
1. A counterbalance including an arm and a connection thereon to the object to be counterbalanced, whereby a load moment is set up, an arm and a spring connected thereto, the arms being adapted to vary in effective length, whereby the counter-moment is maintained substantially equal to the load moment.

1,688,362. HEATING AND VENTILATING APPARATUS. ALBERT R. TEARE, Lakewood, Ohio, assignor to James C. Miles, Cleveland, Ohio. Filed Jan. 23, 1928. Serial No. 248,627. 6 Claims. (Cl. 126—110.)



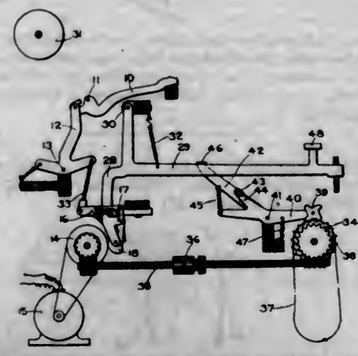
1. The combination of a heating chamber having an air inlet thereto, a fan and a damper associated with the inlet, an electric motor for operating the fan, a switch in the motor circuit, a member for actuating the damper, and means for preventing closing of the switch until the member is moved a predetermined amount in one direction.

1,688,363. HEATING AND VENTILATING APPARATUS. ALBERT R. TEARE, Lakewood, Ohio, assignor to James C. Miles, Cleveland, Ohio. Filed Jan. 26, 1928. Serial No. 249,571. 3 Claims. (Cl. 126—110.)



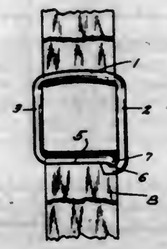
1. In combination with the heating chamber of a hot air furnace having an air inlet conduit leading thereto, of a motor driven fan associated with the conduit and arranged for forcing air under pressure through the conduit into the heating chamber, said conduit having an opening admitting air into that portion between the fan and heating chamber, and a closure for said opening, said closure embodying means operative to maintain it in open position against pneumatic pressure of the fan but inoperative to open it against said pneumatic pressure.

1,688,364. AUTOMATIC TYPEWRITER. RUSSELL G. THOMPSON, Rochester, N. Y., assignor to North East Appliances, Inc., Rochester, N. Y., a Corporation of New York. Filed Dec. 3, 1926. Serial No. 152,484. 1 Claim. (Cl. 197—20.)



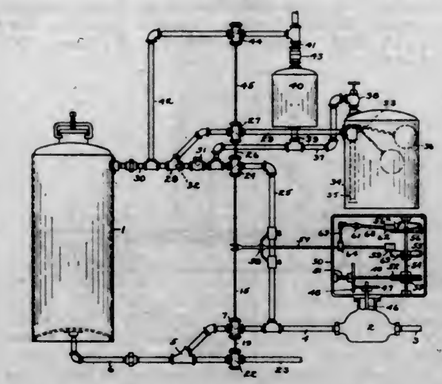
In an automatic typewriter, the combination of a series of key levers, a series of printing instrumentalities corresponding to said key levers but independent thereof, a series of power-operable actuators connected with the respective printing instrumentalities and selectively controlled by said key levers, a key on each key lever whereby the lever may be manually moved to throw the corresponding actuator into operation, and power actuated mechanism operable automatically upon the key levers to move them in a predetermined sequence.

1,688,365. BALE-TIE BUCKLE. JAMES A. TODD, Attalla, Ala., assignor to Compress Buckle Company, Fort Worth, Tex., a Corporation of Texas. Filed May 10, 1926. Serial No. 108,002. 9 Claims. (Cl. 24—26.)



1. A bale tie buckle formed of bent wire forming a closed end, sides and inturned free members adapted to be received in the bight of the bale tie and normally spaced to form the open end of the buckle, one of said members being substantially shorter than the other and adapted to sustain at its end adjacent to a buckle side the load strain on the longer tie engaging member when in service.

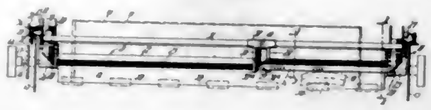
1,688,366. WATER-SOFTENING DEVICE. JOSEPH J. TOMKINSON, Fort Wayne, Ind. Filed Sept. 30, 1926. Serial No. 138,668. 2 Claims. (Cl. 210—24.)



1. The combination of a main tank having water softening materials therein, a conduit adapted to admit water to be softened to the main tank, a conduit for the discharge of softened water from said tank, a conduit for the discharge of waste products from said tank, a branch conduit communicating with the first named conduit and with the main tank, a brine tank, a conduit leading from the brine tank and communicating with the branch conduit through which brine is adapted to flow under the influence of water flowing in the branch conduit, an auxiliary

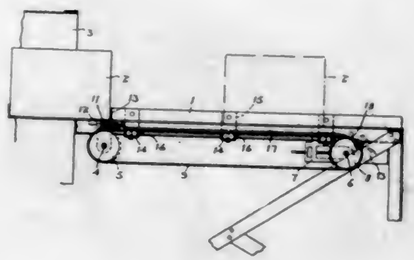
tank having water softening materials and a discharge conduit for softened water, a conduit communicating with the branch conduit and with both the auxiliary tank and the brine tank, valves to contol the several conduits, pivoted means having connection to the valves for operating them simultaneously, and means to actuate the pivoted means comprising a revoluble cam engaging the pivoted means adapted to permit the same to rock in one direction to cause the valves to operate to close off the inlet of water to be softened and the soft water discharge and open the other conduits, means to rock the pivoted means in the opposite direction to reverse the movement of said valves and means driven by the water flowing into the main tank and operatively connected to the cam and to the last mentioned means.

1,688,367. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 23, 1925. Serial No. 45,530. 23 Claims. (Cl. 197—153.)



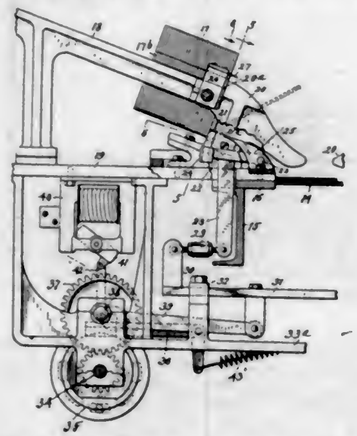
23. In a typewriting machine, the combination with a carriage, typing elements, and ribbon-fields of different characteristics, of a ribbon-field reverser movable with the carriage and movable independently along the carriage to predetermine the point when the reversal of the ribbon-fields shall take place, said ribbon-field reverser being operative to present in longitudinal alignment different fields of the ribbon, whereby two different colors may be typed upon the same line of print within typing areas predetermined by the setting of the ribbon-field reverser.

1,688,368. BOTTLE-CRATE FEED MECHANISM. CHARLES W. WALKER, Toronto, Ontario, Canada, assignor to Walker-Wallace Limited, Toronto, Canada. Filed Apr. 15, 1926. Serial No. 102,326. 3 Claims. (Cl. 198—170.)



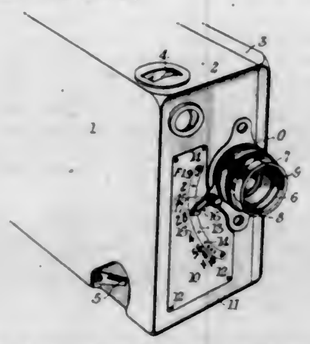
1. In a bottle crate feed mechanism, the combination with flapped crate guides adapted to receive and slidably support the crates, of a pair of endless belts arranged adjacent to said guides, an angle bar hinged'y supported between said belts, and a fixed guide arranged parallel with said crate supporting guides adapted to engage the lower flange of the angle bar to hold the other flange in a vertical crate engaging position throughout the longitudinal travel of the endless belts, said fixed guide being adapted to release the angle bar allowing it to swing backward free of engagement with the crate at the end of the longitudinal movement.

1,688,369. AUTOMATIC FEED MECHANISM. ALFRED R. WILLARD, East Cleveland, Ohio, assignor to Willard Storage Battery Co., Cleveland, Ohio, a Corporation of West Virginia. Filed Mar. 26, 1926. Serial No. 97,552. 19 Claims. (Cl. 198—20.)



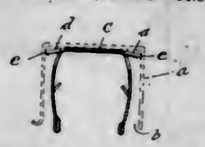
1. In a feed mechanism for supplying grids and the like to a machine or device for operating thereon, a conveyor for the grids, two feed magazines, and means for supplying the grids alternately from the two magazines.

1,688,370. LENS ATTACHMENT FOR PHOTOGRAPHIC APPARATUS. OTTO WITTEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 11, 1928. Serial No. 245,904. 24 Claims. (Cl. 95—2.)



1. In photographic apparatus, the combination with a mount including an adjustable diaphragm, of an attachment adapted to engage the mount, and means on the attachment adapted to engage the diaphragm to prevent adjustment thereof.

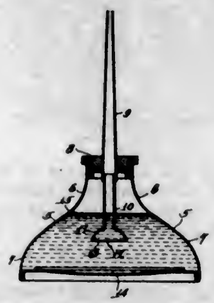
1,688,371. WINDOW-GLASS CHANNEL. EDWIN W. M. BAILEY, Amesbury, Mass. Filed June 30, 1927. Serial No. 202,650. 6 Claims. (Cl. 296—44.5.)



1. A sheet metal window glass channel for a window casing groove, composed of a base and two sides and having a pair of tongues formed therewith and projecting oppositely

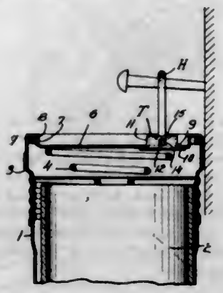
from the base beyond the sides in position for yieldable engagement with the sides of a casing groove as the channel is forced towards the bottom thereof.

1,688,372. OILER. EDWIN H. BARKER, Moylan, Pa. Filed Dec. 1, 1925. Serial No. 72,441. 5 Claims. (Cl. 221—48.)



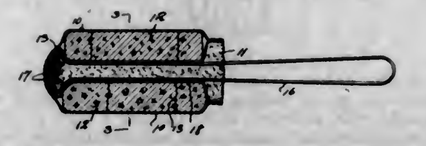
1. In an oil can, a can body in combination with a closure for the body, a spout passing through the closure and an extension from the spout in fluid communication therewith, terminating at a height from the bottom corresponding approximately with the horizontal plane which separates the interior capacity of the can into equal volumes.

1,688,373. BATTERY HAND LAMP. HERBERT F. BEEBE, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 25, 1927. Serial No. 186,398. 7 Claims. (Cl. 240—10.5.)



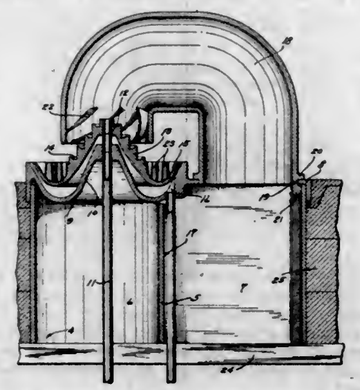
2. In a hand lamp, the combination of a battery casing, a cap secured to one end of said casing, a central depression in the end of said cap, a member rotatably secured within said depression near one side thereof, a hook hingedly secured to said member, and means on the wall of said depression opposite said member for releasably retaining said hook within said depression.

1,688,374. BATH MITT. ALFRED W. BELFRY, Detroit, Mich. Filed Nov. 19, 1927. Serial No. 234,465. 2 Claims. (Cl. 15—227.)



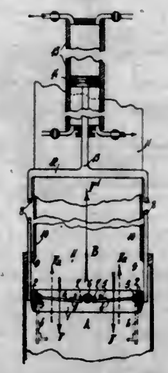
1. A bath mitt formed of an outer layer of Turkish toweling, a lining and pads of spongeous material inserted between the lining and the outer layer of the material on each face of the bath mitt.

1,688,375. OIL BURNER. CLARENCE A. BERKINS, Minneapolis, Minn. Filed Oct. 18, 1926. Serial No. 142,395. 4 Claims. (Cl. 158—91.)



1. An oil burner comprising a base provided with an air passage and offset therefrom with an annular bowl, of an oil delivery pipe extended axially through said bowl, a generating cone supported by the upper end of said oil delivery pipe, the latter serving to deliver oil to the top of said cone, and a supplemental annular bowl formed integral with said generating cone, said generating cone and supplemental bowl being spaced from said lower bowl.

1,688,376. SYSTEM OF PROPULSION FOR SHIPS. MAXIME AUGUSTE LÉON BIDOIRE, Paris, France. Filed July 16, 1926, Serial No. 122,848, and in Germany Aug. 17, 1925. 2 Claims. (Cl. 115—31.)

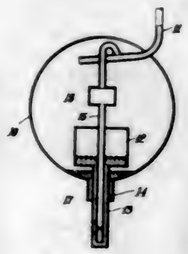


1. In a system of propulsion for ships, in combination, a frame mounted for reciprocation in a water conduit formed in the ship, a pair of shutters pivotally mounted at opposite sides of the frame extending towards each other and having their free ends spaced, a stop for the shutters comprising a rod extending parallel to the axis of the shutters and having lateral projections adapted to engage the free ends of the shutters, and means for rotating the rod on its axis whereby said projections can be brought opposite either side of the free ends of said shutters.

1,688,377. EVAPORATOR FOR REFRIGERATING APPARATUS. LAWRENCE BRUEHL, Brooklyn, N. Y., assignor to Gas Refrigeration Corporation, Scranton, Pa., a Corporation of Delaware. Filed Jan. 4, 1927. Serial No. 158,845. 8 Claims. (Cl. 62—118.)

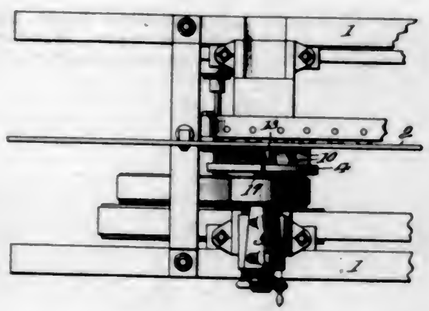
1. An evaporator for an absorption refrigerating system including a main evaporator vessel, a gas outlet conduit, and a compartment enclosed within said vessel whereby

the compartment is protected from direct heat interchange with the medium surrounding said vessel, said



compartment having restricted communication with the lower part of said vessel and open communication with said conduit.

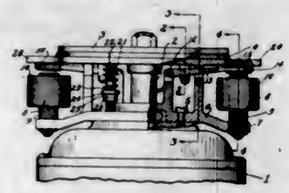
1,688,378. BUFFER FOR MACHINES FOR FINISHING FLOORING. ELMER C. DITTMAR, Williamsport, Pa., assignor to The Cromar Company, Williamsport, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1921. Serial No. 500,657. 8 Claims. (Cl. 51—193.)



1. A buffing wheel for wood finishing machines comprising a hub having a disk provided with a marginal flange, the face of said hub being provided with an annular rib spaced from the flange provided with radial grooves, a series of wiping devices disposed in said grooves, segmental locking members disposed within said annular rib and adapted to engage said wiping devices, wiping devices arranged between the segments of said segmental members and means for engaging the outer wiping devices for forcing the same into engagement with the segmental members for holding said wiping devices in position.

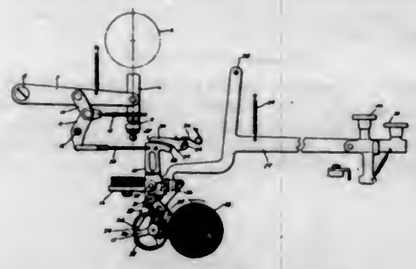
1,688,379. ELECTRICALLY-RELEASED BRAKE. JOHN W. DODD, Brookline, Mass., assignor to George T. McLauthlin Company, Boston, Mass., a Corporation of Rhode Island. Filed June 3, 1925. Serial No. 34,522. 5 Claims. (Cl. 188—171.)

5. In combination with a rotary shaft, of a disk fixed to said shaft, a plate on each side of said disk relatively movable axially of said shaft to clamp and release said disk therebetween, means for holding one of said plates against rotation, pins extending from said plate through the other of said plates beyond the periphery of said disk, springs surrounding said pins and bearing between abutments thereon and said other plate and acting to press said plates toward each other, electromagnetic devices carried by said other plate, levers pivoted to said plate and having armatures for said devices, said levers



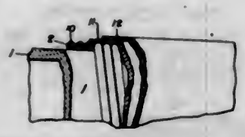
bearing on the said pins and removed by the energization of said devices to force said plates apart to release said disks, and means for limiting the swing of said levers in the opposite direction.

1,688,380. POWER MECHANISM. FARNUM F. DOBBEY, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 18, 1924. Serial No. 756,809. 11 Claims. (Cl. 197—17.)



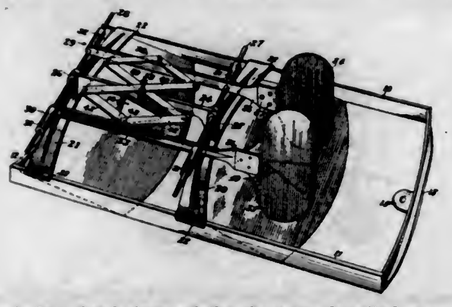
11. In a typewriter or the like, the combination, with a part to be moved, and a manually-operable key, of a power-driven mechanism operable intermittently; means, controlled by said key, for throwing the power-mechanism into operation at each depression and again at each return of the key; and connections, between the power-mechanism and said part, for controlling movements of said part in opposite directions at successive operations of the power mechanism.

1,688,381. ELECTRICAL RESISTANCE. HARRY MELVILLE DOWSETT, Colchester, and HERBERT BENJAMIN TILLEY, Chelmsford, England, assignors to The Radio Corporation of America, New York, N. Y. Filed June 16, 1925, Serial No. 37,461, and in Great Britain June 17, 1924. 5 Claims. (Cl. 201—64.)



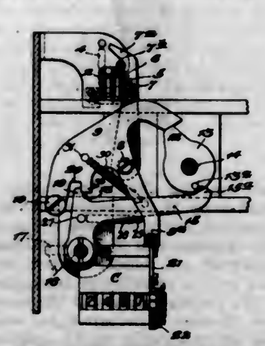
3. The process of manufacturing an electrical resistance unit which consists in winding an enamelled wire covered with absorbent material about a body of refractory material, impregnating the resistance unit so formed with enamel and stoving it at a temperature between 130° C. and 170° C. and subsequently applying a second coating of enamel to the resistance unit and stoving it at a temperature between 230° and 270° C.

1,688,382. SINUS HEAD CLAMP. DAVID M. GHRIST, Glendale, Calif. Filed Oct. 18, 1927. Serial No. 226,836. 6 Claims. (Cl. 250—34.)



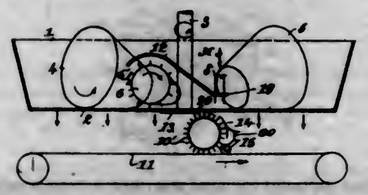
1. In a head clamp of the character described, a supporting frame, a pair of head supporting plates carried by said frame, and a head clamping element associated with said frame and operable to clamp a head disposed on either of said supporting plates.

1,688,383. INITIAL-CHARGE-INCREASING MECHANISM. JULIUS GLUCK, New York, N. Y., assignor, by mesne assignments, to Ohmer Fare Register Company, Dayton, Ohio, a Corporation of New York. Filed Feb. 1, 1923. Serial No. 616,367. 11 Claims. (Cl. 235—30.)



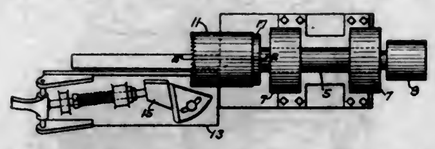
1. An initial charge increasing mechanism for flag controlled taximeters including in combination with a fare drum and the operating wheel therefor, of an actuator for moving said wheel through an arc sufficient to move the fare drum ahead one numeral, and manually actuated means for operating said actuator including an operator's knob on the outside of the meter casing and means for locking said knob after being once manipulated until the flag of the meter has been again reset.

1,688,384. APPARATUS FOR SOFTENING, REFINING, AND CLEANING ENTANGLED AND SHORT-FIBER MATERIAL. EMIL GMINDER, Reutlingen, Germany. Filed Feb. 23, 1926, Serial No. 90,165, and in Germany Feb. 23, 1925. 8 Claims. (Cl. 19—65.)



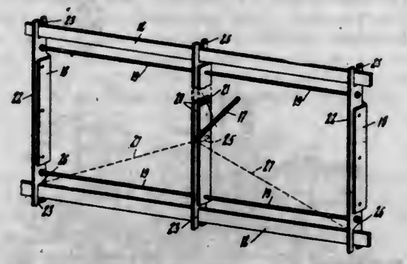
1. Apparatus for softening, refining and cleaning entangled and short fiber material, comprising a container adapted to receive the fiber material, a rotary heavy body adapted to be revolved in pressing contact with the fiber material, and means for turning and entangling the fiber material.

1,688,385. WOODWORKING MACHINE WITH TUBULAR CUTTER. NICHOLAS L. GULLIFORD, Peabody, Mass., assignor to Gregory & Read Company, Lynn, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1926. Serial No. 96,042. 7 Claims. (Cl. 12—47.)



1. In a machine of the class described, in combination with a tubular saw, a mounting therefor adapted to be received within the same and having means expansible into gripping relation to the interior of the saw, said mounting also comprising an end plate forming a wall across the interior of the tube and cutters mounted on said plate.

1,688,386. WINDSHIELD CLEANER. PATRICK J. HALLORAN, Boston, Mass. Filed May 8, 1928. Serial No. 276,045. 3 Claims. (Cl. 15—251.)

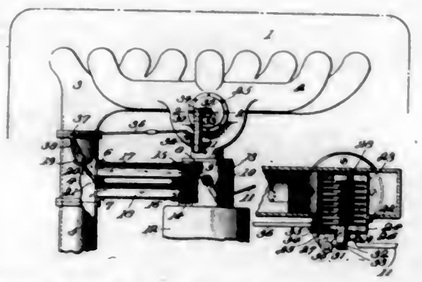


1. A windshield cleaner comprising horizontally extending parallel upper and lower tracks in fixed relation to a windshield frame, a rock-shaft journaled in a bearing above the windshield pane, a crank arm oscillatable by the rock-shaft; an oblong grid reciprocable in a rectilinear path by oscillating movements of the crank arm, and provided with a plurality of wipers bearing on the windshield pane, said grid including a middle cross-bar, wiper-carrying end cross-bars, each cross-bar being provided at its ends with runner portions slidably engaged with the tracks, and tie-rods connecting the cross-bars and maintaining the middle cross-bar midway between the end cross-bars; and connecting means adapted to impart reciprocating movements from the crank-arm to the grid, said means including a terminal on the swing end of the crank-arm, and abutments on the middle cross-bar with which said terminal is slidably engaged, said connecting means being located midway between the end cross-bars, so that the weight of the grid is distributed and frictional resistance to reciprocating movements of the grid on the tracks is reduced to a minimum.

1,688,387. THERMOSTATIC HEAT CONTROL FOR INTERNAL-COMBUSTION ENGINES. WALTER G. HEGINBOTTOM and JACOB RICHARD FRANCIS, Flint, Mich. Filed Sept. 17, 1920. Serial No. 411,009. 1 Claim. (Cl. 123—122.)

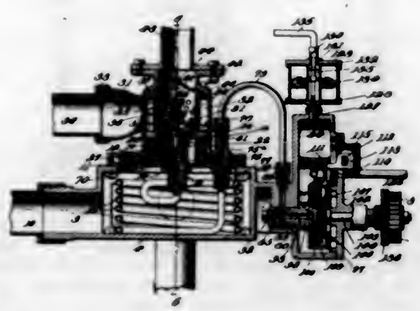
An internal combustion engine having an exhaust pipe, intake manifold and charge forming device connected thereto, a heater arranged to heat the charge in its passage from the charge forming device to the engine, a cup disposed in the induction pipe, a cover for closing said cup having a tubular nipple, a valve disposed in the ex-

haust pipe, a thermostat disposed in said cup having a stem working in said tubular nipple, a bearing formed on the cover of said cup, a vertical shaft mounted in said bearing, a bifurcated arm fixed on said shaft having a



connection with the stem of said thermostat and an adjustable connection between said shaft and said valve for regulating the temperature of the charge delivered to the internal combustion engine.

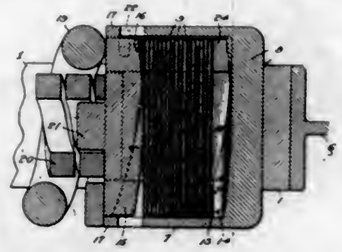
1,688,388. CHARGE-FORMING DEVICE FOR INTERNAL-COMBUSTION ENGINES. GEZA HORVATH, Highland Park, Mich. Filed Nov. 3, 1919. Serial No. 335,342. 18 Claims. (Cl. 123—133.)



1. A charge forming device for internal combustion engines comprising a housing provided with open sides, said housing being provided with an outlet, plates secured to the open sides of said housing having exhaust pipes connected thereto through which the exhaust gases of the engine are adapted to pass, a fuel container arranged within said housing, a plate arranged over the top of said housing provided with a stem having fuel passages communicating with the fuel container, a casting arranged over said plate having an air chamber and provided with a tubular portion forming a mixing chamber, a valve seated upon the upper end of said stem, means for adjusting said valve and a disk nozzle arranged over said stem having a plurality of jets.

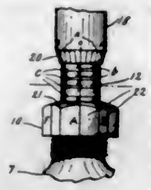
1,688,389. DRAFT GEAR. BYERS W. KADEL, Baltimore, Md., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed Dec. 13, 1923. Serial No. 680,410. 20 Claims. (Cl. 213—22.)

1. A shock absorbing mechanism for railway draft rigging involving a housing having an interior portion concaved to form a spring deflecting surface, a plurality of spring plates mounted in said housing and adapted to be flexed respectively on lines extending diagonally across said plates, and means for transmitting the deforming forces to said plates, said means including a follower having a convex face adjacent the outermost of said plates, and springs engaging said follower, one of said springs being wound to relatively low stress to form a relatively solid



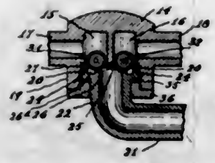
member for directly transmitting the forces to the plates, and the other of said springs being wound to a high stress for taking the initial shocks and effecting the release of the gear.

1,688,390. GRADUATED VALVE. LUIGI LANZA, Oakland, Calif. Filed July 5, 1927. Serial No. 203,321. 3 Claims. (Cl. 116—125.)



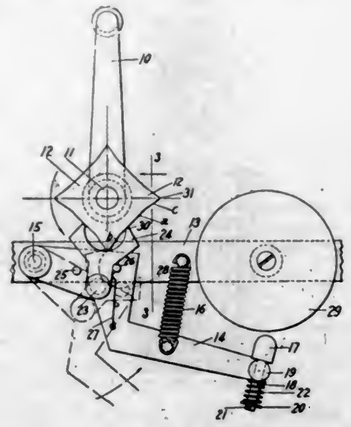
3. In a valve provided with a stem having a valve member thereon and being in a screw-threaded relation to the valve body, a gland having virtually concentrically thereon a tubular member and being adjustably connected with the valve body, the tubular member being longitudinally provided with a plurality of indicating marks, extending over the juncture portion of the member with the gland and over the sides of the latter, and also being annularly provided with indicating marks equidistantly spaced from one another in correspondence with the threads on the valve stem; and a tubular element adjustably attached to the stem so as to be adapted to rotate freely around the gland member, the tubular element having spaced indicating marks circumferentially thereon, so that, by the relation of the respective longitudinal mark and the annular marks on the gland member, the closed position of the valve member, or the degree of valve opening, may be accurately indicated.

1,688,391. FAUCET. JOHN MAGAZZINI, New York, and FRANCIS J. DOWD, Suffern, N. Y. Filed Apr. 12, 1927. Serial No. 183,084. 10 Claims. (Cl. 277—20.)



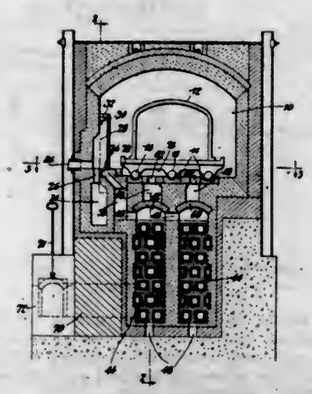
9. In a device of the kind described, a valve casing having chambers provided with outlet valves including ball valve members, and a combined discharge nozzle and valve actuating means cooperating with said ball valve members.

1,688,392. BELL-RINGING MECHANISM. THOMAS C. MALEY, Dayton, Ohio, assignor to Ohmer Fare Register Company, Dayton, Ohio, a Corporation of New York. Filed June 28, 1926. Serial No. 119,064. 7 Claims. (Cl. 116—167.)



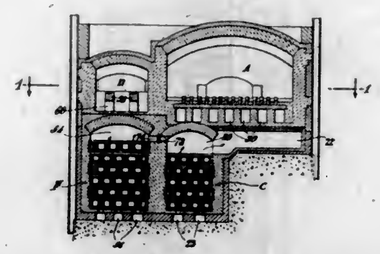
7. In a bell ringing mechanism, a rotatable cam, a lever, a detent carried by said lever and serving as a tripping mechanism, a bell, a beliclapper carried by said lever, means whereby said detent is tripped and said lever urged rapidly toward said bell, means whereby the motion of said lever is arrested before the clapper reaches the bell, and spring means to permit said clapper to touch said bell and to cause said clapper to then be withdrawn from contact with said bell.

1,688,393. FURNACE. FORREST WILLIAM MANKER, Jackson Heights, N. Y., assignor to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Sept. 12, 1925. Serial No. 55,930. 6 Claims. (Cl. 263—28.)



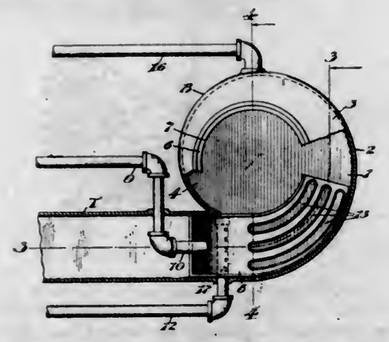
6. The combination with a heating chamber, of a work-holding carriage within the chamber, means for confining said carriage to a path of travel which is nearer one side wall of the chamber than the other, a wall extending upwardly from the floor of the heating chamber in spaced relation to that side of the chamber which is the more remote from said carriage, said wall terminating short of the roof of said chamber and constituting with the adjacent side wall a combustion chamber, and means for entering combustible gases into the combustion chamber.

1,688,394. SHEET AND PAIR HEATING FURNACE. FORREST WILLIAM MANKER, Jackson Heights, N. Y., assignor to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Sept. 12, 1925. Serial No. 55,931. 4 Claims. (Cl. 263—17.)



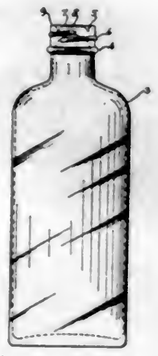
2. In a furnace, the combination of a heating chamber having an opening in one end wall over which combustible gases may be entered into the chamber and having a work-door in the other end wall, means for conducting the products of combustion from the chamber and beneath the floor thereof comprising a conduit extending transversely beneath the floor and opening into the chamber at the corners on either side of the work-door, branch conduits leading from said conduit toward the opposite end of the chamber, a recuperator through which the products of combustion flow before passing to the stack, and conduits leading from the recuperator to and through the end wall over which the combustible gases pass whereby air preheated by the recuperator may mingle with said gases to support secondary combustion thereof.

1,688,395. OIL BURNER. SIDNEY E. MEYERS, Buffalo, N. Y., assignor, by direct and mesne assignments, to Melco Engineering Corporation, a Corporation of New York. Filed May 29, 1924. Serial No. 716,659. 3 Claims. (Cl. 158—28.)



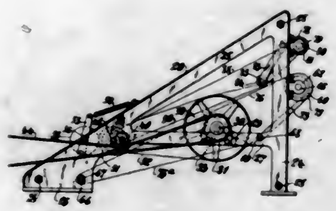
1. An oil burner comprising a chamber having a helically curved vertical wall adapted to cause the flame to whirl and after leaving the burner to spread, a top wall provided with a circular fuel discharge opening arranged co-axially with the axial point of origin of said vertical wall, an oil vaporizing element so arranged in said chamber that it is raised by the radiated heat of the mixture burning in said chamber to oil vaporizing temperature, said vaporizing element being located at one end of the helically curved wall, means for depositing oil on said vaporizing element and an air trunk communicating with said chamber and extending tangentially thereto and arranged to direct the current of air over the vaporizing element to produce a scrubbing action on the same.

1,688,396. BOTTLE. JAMES MORRISON, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 4, 1925. Serial No. 48,079. 4 Claims. (Cl. 215—31.)



1. A bottle comprising a neck portion having a transverse wall at its outer end, said wall formed with a restricted aperture and an annular groove concentric with the aperture in the outer face of the wall, the outer wall of said groove being of higher elevation than the remaining portion surrounding the aperture.

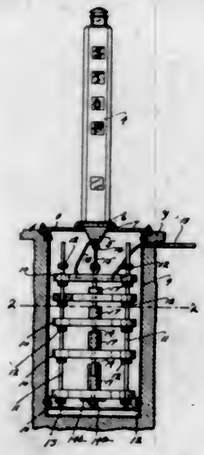
1,688,397. DELIVERY APPARATUS. HERBERT W. ORNDOFF, New Orleans, La., assignor to The E. V. Benjamin Company, Inc., New Orleans, La., a Corporation of Louisiana. Filed Sept. 30, 1926. Serial No. 138,699. 3 Claims. (Cl. 198—165.)



1. In a delivery apparatus the combination of a delivery belt, a moving clamping band making an angle with the delivery belt to form a nozzle shape space, a pair of clamping pulleys one bearing on the other adjacent to said belt and band, means to rotate one of said pulleys and pliable means to hold the second pulley against the rotating pulley.

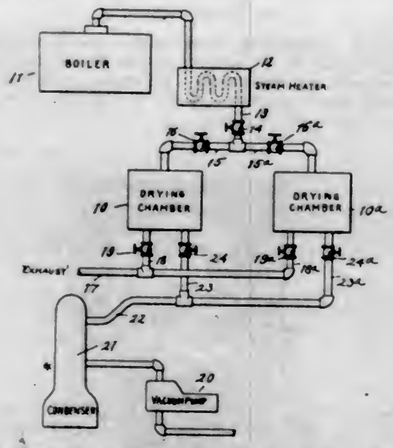
1,688,398. TRAFFIC SIGNAL. JOHN RANK, Minneapolis, Minn., and HENRY RANK, Pontiac, Mich. Filed Dec. 11, 1926. Serial No. 154,118. 7 Claims. (Cl. 40—145.)

1. In a traffic signal, the combination with a post set for rocking movements to and from an upright normal position, and a plurality of downwardly pulling elements arranged in a series for accumulative action and certain of which are normally inactive but which, when brought into action, aid in moving said post backward to its upright position, and connection to said post operative



on said downwardly pulling elements to progressively bring the same into action when said post is rocked from its upright position.

1,688,399. STORAGE-BATTERY PLATE AND METHOD OF PERMANIZING THE SAME. WILLARD L. REINHARDT, East Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Oct. 11, 1922, Serial No. 593,905. Renewed Mar. 9, 1928. 8 Claims. (Cl. 136—19.)

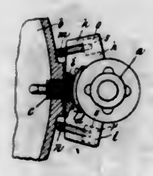


1. The method of permanizing storage battery plates, which comprises treating the plates with a solution which when dry will leave a moisture excluding coating on the plates, and then subjecting the plates to the heating action of a highly heated inert gas.

1,688,400. LOCK FOR RADIATOR VALVES AND THE LIKE. WILLIAM K. SIMPSON, Waterbury, Conn., assignor to Hoffman Specialty Company, Waterbury, Conn., a Corporation of Illinois. Filed Dec. 16, 1926. Serial No. 155,326. 9 Claims. (Cl. 137—122.)

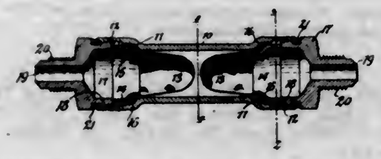
3. The combination of a supporting structure and an article having a screw threaded nipple entering and engaged with said supporting structure, a locking block

arranged between said article and structure, set screws mounted in the block arranged to be forced against an adjacent surface of the supporting structure, the blocks being arranged to apply the reaction of said screws against



the article and having means interposed in the path of a part of said article which is eccentric to the axis of its screw threaded nipple for resisting independent rotation of the article.

1,688,401. STRAINER. FRANKLIN G. SLAGEL, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., a Corporation of New York. Filed July 5, 1927. Serial No. 203,305. 1 Claim. (Cl. 210—164.)



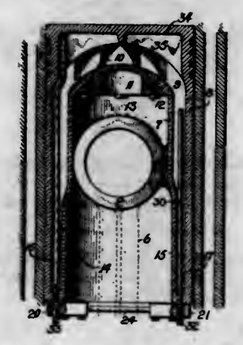
A strainer comprising a tubular casing having an inlet and an outlet and an internal annular shoulder, a cup shaped screen arranged in said casing, a tapering collar secured to the edge of said screen and having an annular shoulder facing the shoulder of said casing, a bushing engaging said collar and having a screw connection with said casing, and a washer interposed between the shoulders of said collar and said casing.

1,688,402. VENDING MACHINE. LANDON D. SMITH, Chicago, Ill., assignor to National Vending Service Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 28, 1924. Serial No. 709,365. 15 Claims. (Cl. 194—63.)



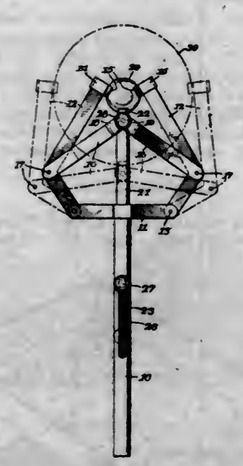
1. A vending machine comprising a casing adapted to contain material to be vended, a coin actuated discharge mechanism for discharging the material therefrom, and two coin returning devices adapted to act on the same coin for returning the coin to the customer.

1,688,403. PISTON FOR INTERNAL-COMBUSTION ENGINES. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del., a Corporation of Delaware. Filed Jan. 14, 1922. Serial No. 529,314. 11 Claims. (Cl. 123—176.)



1. In combination, a piston adapted to reciprocate within a cylinder, a chamber within said piston and filled with fluid, a second cylinder in said chamber and a plunger in said secondary cylinder for causing circulation of the fluid.

1,688,404. LABORATORY APPARATUS. RUDI STARK, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 29, 1927. Serial No. 187,580. 8 Claims. (Cl. 294—31.)

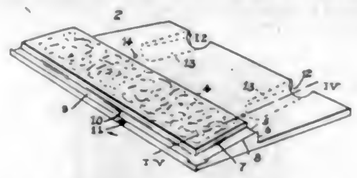


1. In a device of the class described, a tubular staff having a lengthwise slot, a cross bar on the upper end of the staff, a pair of levers fulcrumed to the cross bar on opposite sides of the staff, a gripping finger carried by each lever, a toggle connecting the levers above the cross bar and having a knee joint aligned with the staff, a third gripping finger carried by the toggle, a rod slidable in the staff and connected with the toggle, a spring urging the rod out of the staff, and an operating pin for the rod projecting through the slot in the staff.

1,688,405. WALL-VENEERING MATERIAL. WASHINGTON A. STOEHR, Reserve Township, Allegheny County, Pa. Filed Oct. 2, 1926. Serial No. 139,120. 12 Claims. (Cl. 20—5.)

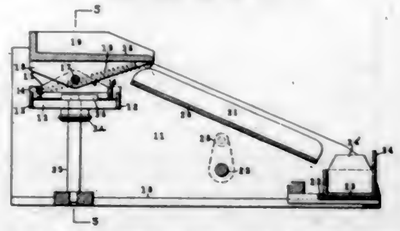
1. A sliding element for a wall comprising a backing plate having the lower portion of its front surface provided with an outward extending block portion to simulate

a building unit such as a brick, and the backing plate being provided with narrow portions at the end and along a horizontal side of the brick simulating the mortar bond



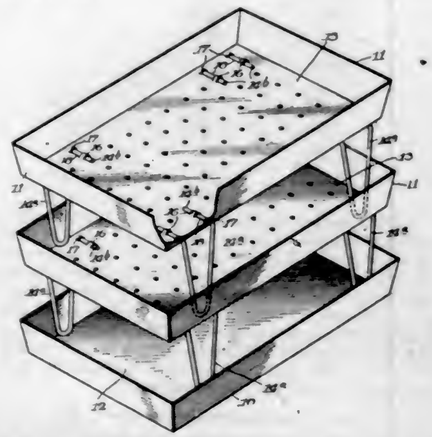
between adjacent building units, the outer face of the block portion being disposed in a plane diverging upwardly from the general plane of the backing plate.

1,688,406. PACKAGING MACHINE. LEVERETT W. TIFFANY, Winsted, Conn. Filed June 4, 1924. Serial No. 717,678. 8 Claims. (Cl. 163—8.)



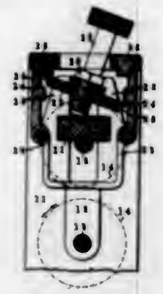
1. A packaging machine, including a hopper adapted to receive a mass of promiscuously disposed articles, means for vibrating said hopper to arrange the articles with their bodies substantially parallel to each other and to effect a discharge of said articles from said hopper, a tray adapted to receive said discharged articles, and means for vibrating said tray to rearrange the articles within the body of the same, said tray and hopper being vibrated in different directions.

1,688,407. OAT SPROUTER. JOSEPH WASTAK, Chicago, Ill. Filed Feb. 28, 1927. Serial No. 171,389. 6 Claims. (Cl. 47—14.)



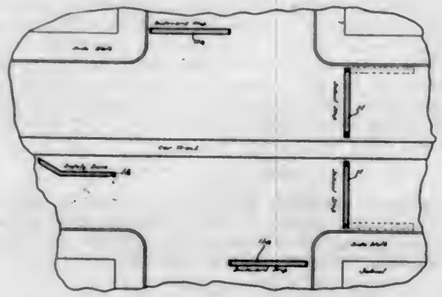
1. An oat sprouter comprising a drip pan and a number of sprouter pans adapted to be placed one above the other to form tiers, each sprouter pan having a plurality of readily removbale legs adapted to extend into the next lower pan for a support, or to be removed so that all of the pans can be nested.

1,688,408. AUTOMATIC RELEASE FOR WRINGERS. WILLIAM WARNER BROWN, Oak Lane, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Filed Apr. 26, 1923. Serial No. 634,708. 12 Claims. (Cl. 68—32.)



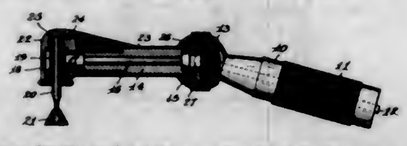
1. In a wringer, in combination, a rotatable roll mounted in a wringer frame, a roll co-operating with said first roll and being mounted for rotary movement and for translatory movement laterally of the wringer frame upon occurrence of an abnormal load, means for holding said rolls in co-operative relationship, and means actuated by the lateral translatory movement of said movable roll, to release said roll holding means.

1,688,409. STREET SIGNAL FOR VEHICULAR TRAFFIC. JOHN A. CAMPBELL, Los Angeles, Calif. Filed May 2, 1925. Serial No. 27,460. 10 Claims. (Cl. 94—1.5.)



1. A flexible strip having an appreciable ridge forming thickness, and composed of wear resistant material provided with beveled edges; and means at the ends thereof for the removable attachment of said strips to a pavement.

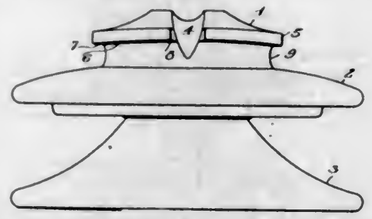
1,688,410. QUADRANGLE. HERMAN E. S. CHAYES and AUGUST P. JURGENSEN, New York, N. Y., assignors to Chayes Dental Instrument Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 21, 1925. Serial No. 10,775. 1 Claim. (Cl. 32—11.)



In a dental tool holder, an elongated body portion having a drive journaled therein, an enlarged head member at one end of the body portion, a tool-holding chuck journaled in the head member and extending substantially at right angles to the axis of the body portion, the head

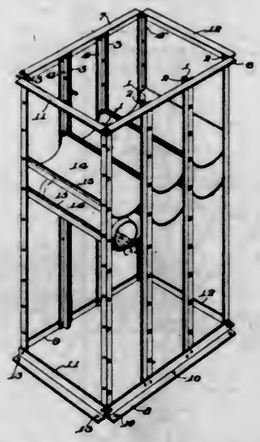
member being provided with an opening in its rearward face, a longitudinally movable sleeve member enclosing said body portion and provided with a forked locking device at its forward extremity, said locking device entering said opening to engage and lock a tool in said chuck, a flange at the rear extremity of the body portion, and a spring enclosing the body portion between said flange and the rearmost extremity of said sleeve, said spring acting normally to press the sleeve forwardly into locking position.

1,688,411. ELECTRICAL INSULATOR. WILLIAM S. COOK, Parkersburg, W. Va. Filed Aug. 3, 1923. Serial No. 655,428. 1 Claim. (Cl. 173—318.)



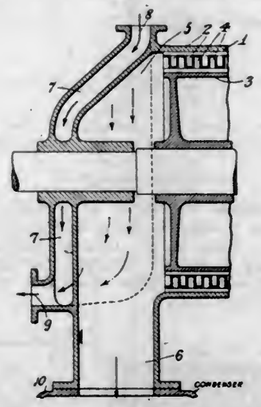
A turned insulator having a circular head and a circular skirt below the same of much greater diameter, the head being provided on its top with a transverse line wire groove in the vertical axis of the insulator and being further provided with an encircling circular flange forming a side wire groove between itself and the skirt, said flange being upwardly curved from points at the sides of the line wire groove to a point in alignment with the latter and intersecting the plane thereof.

1,688,412. GOLF-BAG RACK. EDWARD A. DARBY, Philadelphia, Pa. Filed July 13, 1927. Serial No. 205,292. 4 Claims. (Cl. 211—126.)



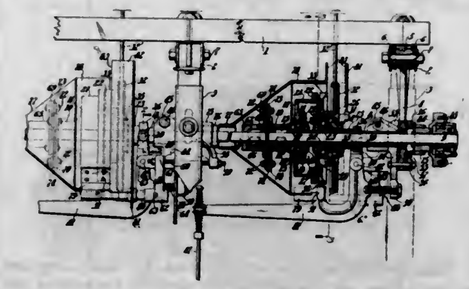
4. In a golf bag rack, the combination of a series of vertical tiers of rack elements, each element comprising a segment of a cylinder and having both its lateral and end edge portions reversely folded closely upon its body portion to reinforce the same against distortion, and each corner of each element being perforated through a reinforced portion of multiple thickness, angle-irons perforated in one flange and connecting the said elements of each tier, and means extending through the perforations of said elements and said angle-irons to secure the elements and angle-irons together, and the angle irons of adjacent tiers of a series being connected by the same means that connect said elements and angle-irons together.

1,688,413. METHOD OF AND APPARATUS FOR INCREASING THE VACUUM OF TURBINES. ALBERT DELAS, Paris, France, assignor to Delas Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 19, 1920, Serial No. 417,990, and in France Nov. 22, 1919. 3 Claims. (Cl. 60—95.)



3. In combination, a condenser, a vapor-actuated turbine provided with means for conveying its exhaust to said condenser, and means forming a cooling jacket around at least a portion of said first named means, the inner wall of said jacket being of metal of comparatively high heat conductivity.

1,688,414. POWER TRANSMITTER. GEORGE M. EAMES, Bridgeport, Conn., and IRVING F. WEBB, Elizabeth, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed May 27, 1925. Serial No. 33,261. 12 Claims. (Cl. 192—110.)

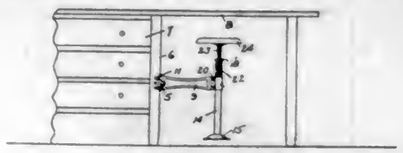


1. In a driving device for power-tables, a driving shaft, a hanger, a bearing-sleeve sustained by said hanger and embracing said shaft, a driving clutch-member journaled upon said bearing-sleeve and secured upon said shaft for rotation therewith, a driven clutch-member rotatably supported upon said bearing-sleeve, means for shifting the driven clutch-member lengthwise of said bearing-sleeve into operative engagement with said driving clutch-member, and means provided on said bearing-sleeve for preventing the transmission of the thrust of said shifting means to said driving shaft.

1,688,415. ADJUSTABLE STOOL. MARTIN FOX, Chicago, Ill., assignor to The Seng Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1925. Serial No. 7,232. 3 Claims. (Cl. 155—81.)

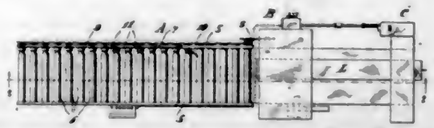
1. A stool comprising a hollow stem, a threaded collar member at the upper end thereof, a seat having a threaded stem adjustable in the collar member, a movable sup-

port comprising a sleeve in which the hollow stem is vertically slidable and a spring surrounding the hollow



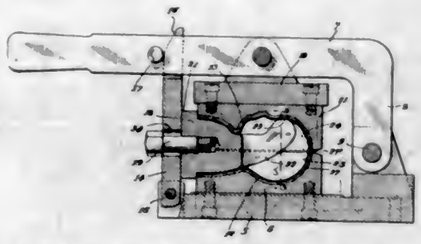
stem above the sleeve and engaging it and the collar tending to raise the stool with respect to the collar.

1,688,416. LUMBER FEEDING AND MANIPULATING MEANS. LEO J. GRUBMAN, Belle Harbor, and EDWIN A. GODLEY, New York, N. Y. Original application filed Mar. 26, 1923, Serial No. 627,595. Divided and this application filed May 9, 1924. Serial No. 711,974. 10 Claims. (Cl. 198—33.)



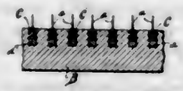
9. In a lumber feeding mechanism comprising means for supporting and conveying a board in a vertical plane, and means independent of the conveying means and caused by the movement of the board to automatically dispose said board in a horizontal plane without interruption of the continued feeding movement of the board.

1,688,417. MOLDING APPARATUS. LEO J. GRUBMAN, Belle Harbor, N. Y. Filed Dec. 16, 1925. Serial No. 75,678. 7 Claims. (Cl. 18—19.)



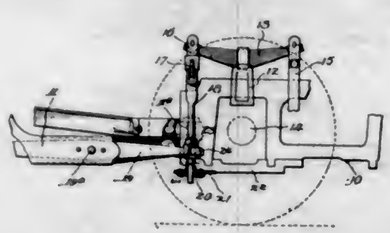
1. A molding apparatus consisting of stationary and movable mold sections, means for movably supporting the material to be molded, and means for operating the movable mold section to close the mold and simultaneously move said material supporting means to its final position relative to the mold sections, said means consisting of a pivoted lever carrying the movable mold section, and a pin fixed in said lever to coact with cam surfaces of the material support.

1,688,418. SAW CARD. WILLIAM L. HANCOCK, Dallas, Tex., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed Sept. 1, 1927. Serial No. 216,916. 2 Claims. (Cl. 19—97.)



1. As a new article of manufacture, a saw card, comprising a non-metallic base, said base being provided on one face with a multiplicity of parallel slots; saw lengths set in said slots; a cement sheet filling the unoccupied outer part of the slots and securing the saws in the slots.

1,688,419. LOCOMOTIVE EQUALIZER RIGGING. CLARENCE B. HARRISON, Lima, Ohio, assignor to The Ohio Steel Foundry Company, Lima, Ohio, a Corporation of Ohio. Filed Sept. 15, 1927. Serial No. 219,580. 2 Claims. (Cl. 105—82.)



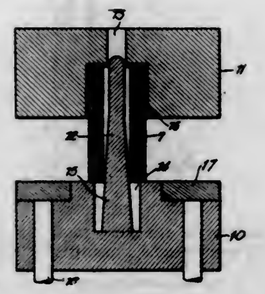
1. In a locomotive, a main frame, and a trailer truck pivotally connected for horizontal movement relative thereto, a pair of equalizer bars carried by said truck, equalizer rigging carried by said main frame including a pair of vertically disposed hangers guided for vertical movements on said frame, and connecting means permitting limited movement of each of said truck equalizer arms relative to their respective hangers in a direction substantially tangential to the pivotal axis of said truck.

1,688,420. PUMP BLEEDER. ARTHUR ROBINSON HEGAN, Dover, Del. Filed Jan. 21, 1928. Serial No. 248,439. 3 Claims. (Cl. 137—34.)



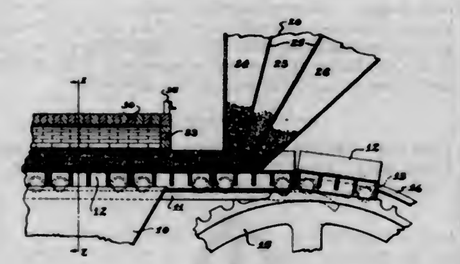
3. In combination, a pump casing having an opening; a U-shaped bracket having its extremities straddling the pump casing and provided with a straight bight portion; a stopper for insertion within the opening to close the same; a lever of angular contour with respect to its length pivotally mounted at the angle upon said bight portion; means for mounting the stopper on the end of one arm of the lever; and a U-shaped guide member fixed to the side of the pump casing, said guide having spaced sides extending perpendicularly from the said side and tangent to the lever, and said guide member provided with a bight portion spaced from the side of the casing to prevent the end of the other arm of the lever from striking the casing.

1,688,421. MAKING HUBS AND THE LIKE. HENRY S. HOLMES, New York, N. Y., assignor to Thomas E. Murray, Brooklyn, N. Y. Filed June 4, 1927. Serial No. 196,451. 3 Claims. (Cl. 29—174.)



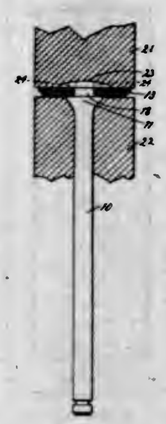
1. The method of making a wheel hub having a longitudinal tapered bore which consists in forming a tubular blank with a welded longitudinal joint and forging such blank to form the cylindrical external shape and the tapered bore.

1,688,422. PROCESS OF TREATING EARTHY MINERALS. REED W. HYDE, Summit, N. J., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 4, 1925. Serial No. 20,763. 7 Claims. (Cl. 22—4.)



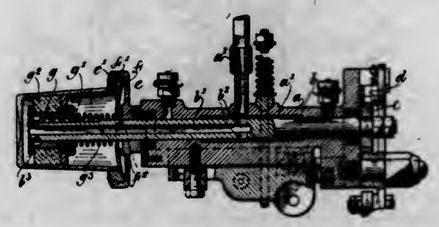
1. The continuous process of calcining finely divided alkaline earth carbonate material out of direct contact with solid fuel which consists in arranging said material in a previous moving layer in which the coarser particles are superimposed upon the finer particles, continuously passing currents of heated gases down through the entire portion of the layer undergoing calcination, whereby the heated gases are caused to contact with the coarser particles before the finer particles and the entire layer is heated to a temperature above the dissociation temperature of the carbonate and below the fusion temperature of the material to calcine the carbonate.

1,688,423. METHOD OF MAKING VALVES. ROBERT JARDINE, Detroit, Mich., assignor to Rich Tool Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 20, 1924. Serial No. 757,233. 4 Claims. (Cl. 29—156.7.)



1. A method of securing valve heads to valve stems which consists in heating said stem, securing a head thereon while in an unheated condition by clamping the same between a shoulder and head formed on said stem while the same is hot, heating said stem and head and pressing said head and shoulder toward each other.

1,688,424. HOLDER FOR GLASSWARE, ETC. EDWARD J. KIEFER, Kew Gardens, N. Y. Filed Apr. 25, 1925. Serial No. 25,736. 8 Claims. (Cl. 51—253.)

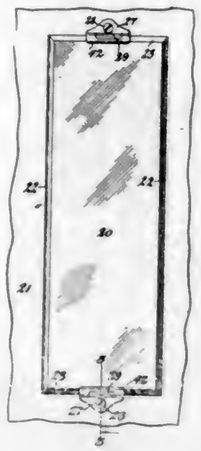


1. A holder for hollow articles, comprising a flexible, flanged receiver, means for causing the sides of the flange to diverge outwardly normally, means to support the receiver, and means to press the article against the receiver to cause the flange sides to converge outwardly to cause the flange to grip the edge of the article.

1,688,425. FASTENER FOR GLASS PLATES. WILLIAM LA HODNY and FRANK X. KISITZ, Buffalo, N. Y., assignors to Standard Mirror Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed May 27, 1924, Serial No. 716,256. Renewed Sept. 17, 1927. 4 Claims. (Cl. 16—1.)

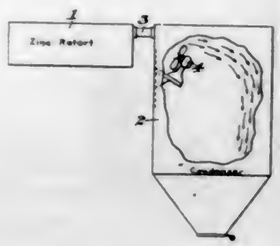
1. A fastening for securing a glass plate having a notch in its edge, to a support, comprising a clip having

a base adapted to be secured to said support and arranged parallel with said plate, and a hook flange rising from



said base and having a part adapted to engage the notch of said plate and a part adapted to overhang the front side of said plate.

1,688,426. METHOD AND APPARATUS FOR PRODUCING ZINC DUST. FRANKLIN P. LANNON, Jr., Sand Springs, Okla., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 1, 1927. Serial No. 165,227. 11 Claims. (Cl. 266—19.)



1. The method of producing zinc dust in a state of minute subdivision from zinc fumes which comprises circulating the zinc fumes vigorously and rapidly to cool them quickly to a point considerably below the vaporizing temperature whereby the zinc particles are solidified as they are incipiently condensed and formed.

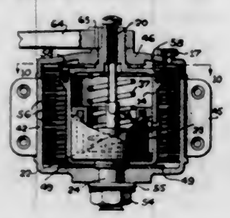
1,688,427. MEANS FOR DETERMINING THE AREA AND ANGLE OF OPENINGS IN PERFORATED SPRAY HEADS. KURT K. LEDIG, Newark, N. J., assignor to American Platinum Works, Newark, N. J., a Corporation of New Jersey. Filed Jan. 7, 1925. Serial No. 1,124. 5 Claims. (Cl. 73—51.)

1. An apparatus for ascertaining the uniformity of the combined area of a group of orifices in a plurality of perforate objects, comprising a liquid holding tank, object engaging heads adapted to be supplied with liquid from said tank, means for engaging one of the objects to each head to receive liquid therefrom, individual receiving tanks one for each object tested, and float controlled means



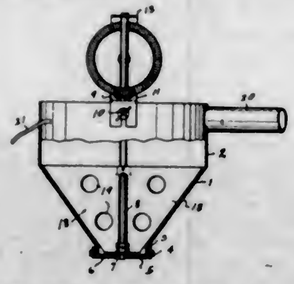
associated with each receiving tank for indicating the reception of a predetermined quantity of liquid therein.

1,688,428. DOOR CHECK AND CLOSER. PORTER S. MORGAN, Norwalk, Conn., assignor to Morgan Blodgett Morgan, Inc., New York, N. Y., a Corporation of New York. Filed July 19, 1922. Serial No. 576,041. 28 Claims. (Cl. 16—53.)



1. A door closing and checking device, comprising in combination, closing mechanism, checking mechanism operatively connected therewith to retard its closing movement and automatically to terminate its retarding action prior to the conclusion of said closing movement, said checking mechanism lying within said closing mechanism.

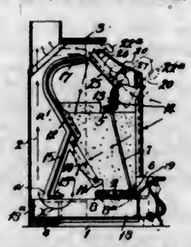
1,688,429. STRAINER. WILLIAM BADISON MURDEN, Newark, N. J. Filed Feb. 2, 1926. Serial No. 85,418. 3 Claims. (Cl. 210—151.)



1. A strainer including a receptacle whose walls are foraminated, a foraminated adjustable bottom for said receptacle having a central bearing, a removable bridge carried by the receptacle and having bearings aligned with

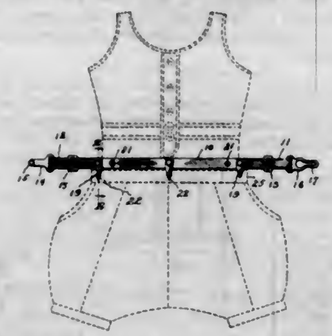
said bottom bearing, a paddle shaft rotatably mounted in said bearings, paddles on said shaft, the upper portion of the outer edges of said paddles being forwardly curved, said bridge also having bearings in substantially right angular alignment with respect to said shaft, a crank shaft in said last named bearings, operatively connected with and adapted to drive the paddle shaft.

1,688,430. OPEN-FRONT FIREPLACE STOVE FOR BURNING COKE. JOHN SWITZER OWENS, London, England. Filed Feb. 3, 1927, Serial No. 165,633, and in Great Britain Feb. 6, 1926. 7 Claims. (Cl. 126—126.)
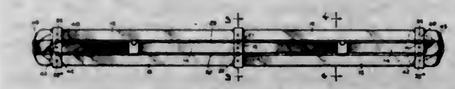


1. An open front fire place stove including an outer casing, a fuel chamber in said casing, a fire-box in said casing disposed for receiving fuel from said chamber, a back flue extending in said casing at the rear of said chamber and fire-box, a top flue in said casing above said chamber, means for passage of draft from the rear of the fire box to said back flue, means for passage of draft from the front of the fire-box to said top flue, and means for passage of draft from below the fire box to said back flue.

1,688,431. DETACHABLE BAND FOR GARMENTS. ROSS M. G. PHILLIPS, New Haven, Conn., assignor of one-third to Samuel Muhlfelder and one-third to William Schoenberger, New Haven, Conn. Filed May 12, 1927. Serial No. 190,861. 2 Claims. (Cl. 241—9.)



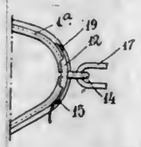
1. A detachable band for garments, comprising a bond, a tape member having one end permanently affixed to one side of said band and the other end of said member detachably affixed to the other side of said band for separably securing one or more garments thereto.

1,688,432. BUMPER. CLARENCE E. PRYOR, Elizabeth, N. J. Filed June 24, 1925. Serial No. 39,223. 5 Claims. (Cl. 293—55.)



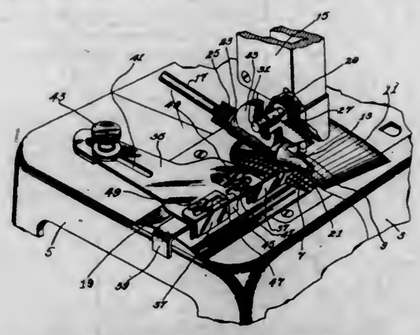
1. A bumper comprising a plurality of substantially vertically aligned bumper bars, the ends of said bumper bars being rearwardly bent and means for securing the bent ends respectively of the lowermost bar to a body portion of the uppermost bar and the bent ends of the uppermost bar to a body portion of the lowermost bar.

1,688,433. GOGGLES. GIUSEPPE RATTI, Turin, Italy. Filed Mar. 23, 1925, Serial No. 17,821, and in Italy Mar. 27, 1924. 1 Claim. (Cl. 2—14.)



In a goggle comprising, for each eye, a frame for supporting a screen, said frame including a split sleeve having a groove in its front and wherein said screen is engaged, a slotted connecting member carried by one of the ends of said split sleeve, said connecting member being adapted to overlap the otner or second end of said split sleeve, cooperating means on said connecting member and said second named end of said split sleeve for their interengagement and an eye-shaped key pivoted on the first-named end of said split sleeve, said eye-shaped key passing through the slot of said connecting member and being adapted to take a position in which it locks said connecting member in engagement with said second end of said split sleeve, said eye-shaped key serving for attachment of the fastening means of the goggle.

1,688,434. SKIVING MACHINE. EUGENE J. RAY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 12, 1922. Serial No. 606,446. 8 Claims. (Cl. 69—9.5.)

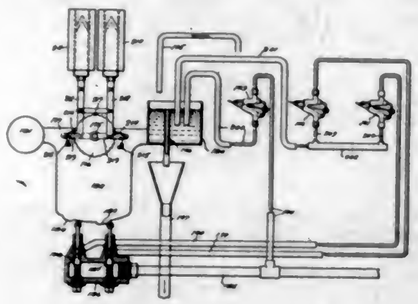


1. A machine of the class described having, in combination, a knife, a pair of rolls for advancing a piece of work to the knife, a gage for guiding the work by engagement with the edge thereof, said gage being adjustable toward and from the rolls and having a double tapered end extending between said rolls to a point close to the bite thereof, and a stop adapted to contact with a stationary part of the machine to prevent the gage from being pushed into contact with the rolls.

1,688,435. OIL-BURNING APPARATUS. MARC RESEK, Cleveland Heights, and JOHN ALGER DAHLSTROM, East Cleveland, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 24, 1925. Serial No. 39,236. 17 Claims. (Cl. 158—36.)

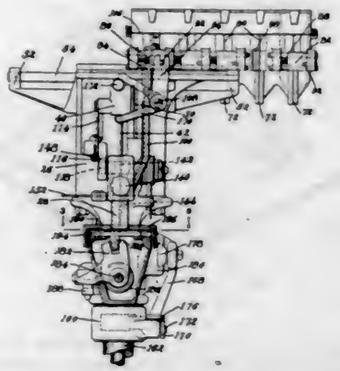
1. In oil burning apparatus, the combination of a burner of the injector type, a steam generator subjected to the heat of the burner flame, pressure actuated means operated by steam from the generator for maintaining the pressure

therein substantially constant, a conduit leading from the steam generator to the burner, an oil tank, an oil reservoir having an overflow that drains into said tank, a pump operated by steam from the generator for pumping



oil from the tank to the reservoir, and thermostatically controlled means subjected to the heat produced by the apparatus for changing the relation between the burner and the oil level in the reservoir.

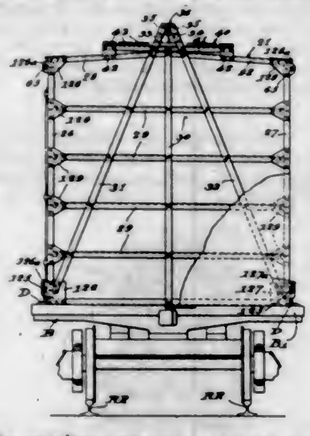
1,688,436. FASTENING-INSERTING MACHINE. WILLIAM THOMAS BUCKINGHAM ROBERTS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 13, 1922, Serial No. 600,497, and in Great Britain Dec. 5, 1921. 31 Claims. (Cl. 1—18.)



1. A machine of the class described having, in combination, a vertically movable head, a work support, a throat member carried by the head for engaging work on the support and for positioning a fastening, means carried by the head to insert the fastening, and means for raising and lowering the head of the machine a relatively short distance between the insertion of successive fastenings and for raising it a relatively greater distance to facilitate the insertion and removal of the work.

1,688,437. SECTIONAL CAR CONTAINER. ROBERT T. ROMINE, Mount Clemens, Mich. Filed June 15, 1927. Serial No. 199,100. 5 Claims. (Cl. 105—366.)

1. A shipping container comprising a load supporting floor and side walls, structural angle bars embracing opposite edges of the floor and having horizontal flanges extending beneath the floor, diverging tie bars at opposite

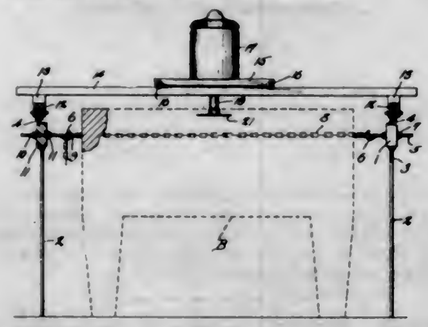


sides of the container connected to said angle bars, and a transverse lifting bail connecting the upper ends of said tie bars.

1,688,438. MAKING MALLEABLE-IRON CASTINGS. HARRY A. SCHWARTZ, Cleveland Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 23, 1926. Serial No. 156,761. 9 Claims. (Cl. 148—13.)

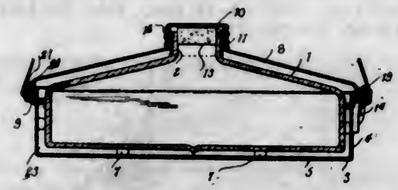
9. That improvement in the art of making malleable iron castings which comprises taking an iron casting produced in a sand mold and containing silicon in the amount normally found in a malleable iron, at a temperature above its critical point, cooling the iron rapidly from a temperature above such point to a temperature below that point, subjecting the casting to an annealing cycle which comprises reheating the casting to a temperature above the critical point, holding it at such temperature for a period of time sufficient to break down the cementite, then cooling to below the critical point.

1,688,439. SURFACE TRIMMER FOR MEAT BLOCKS. WARREN R. SMOUT, Albany, Wis. Filed Dec. 11, 1926. Serial No. 154,243. 1 Claim. (Cl. 144—2.)



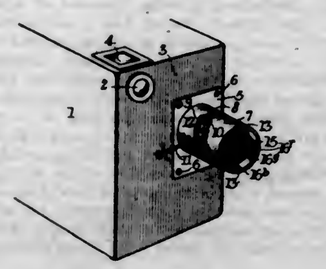
A machine of the class described including parallel side strips, separately adjustable fingers extending laterally therefrom for engagement with a side of a block to be trimmed, flexible, detachable and adjustable connections between the end portions of the side strips, a track including wheel supported heads detachably mounted and movable longitudinally of the respective side strips and rails connecting the heads, a carriage removably mounted on and movable longitudinally of the track, and a motor driven cutting element movable with the carriage.

1,688,440. THERMO FISH RECEPTACLE. CHARLES E. SODERMAN, Ishpeming, Mich. Filed Aug. 2, 1927. Serial No. 210,149. 2 Claims. (Cl. 215—12.)



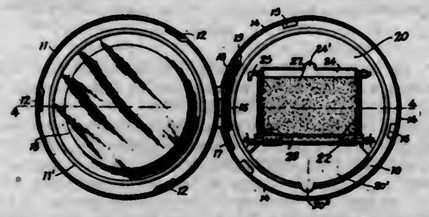
1. A device of the class described comprising an inner receptacle, an outer container including a bottom section and a body section having springs carried thereby for engagement with the inner receptacle, a cover for the inner receptacle, hingedly connected to the body section, said cover having a channel carried thereby, a packing fitted in the channel and having a ledge for engaging the upper edge of the body section when the cover is closed, and necks carried, respectively, by the inner receptacle and cover for interfitting engagement.

1,688,441. LENS-ATTACHMENT MOUNT FOR PHOTOGRAPHIC APPARATUS. DONALD H. STEWART, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 17, 1928. Serial No. 247,376. 16 Claims. (Cl. 95—2.)



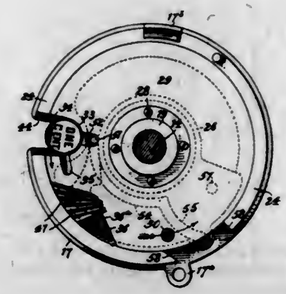
1. In photographic apparatus the combination of an objective, a mount for the objective in which the objective is rotatably supported for focusing, means between the objective and mount for accomplishing a focusing movement by turning the objective in the mount, an attachment holder, and connections between the holder and the objective and between the holder and the mount for moving the attachment holder with the objective, and for preventing the attachment holder from turning.

1,688,442. POWDER BOX. JACOB STIRISS, New York, N. Y. Filed Jan. 20, 1928. Serial No. 248,248. 9 Claims. (Cl. 132—83.)



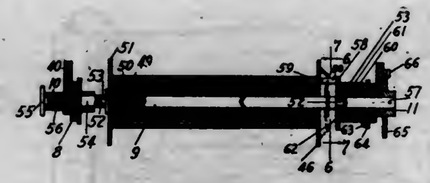
1. In a powder box, the combination of a box comprising a containing section and a lid, a hinge connecting the container section and the lid, and means adapted to lock the lid in closed position when the said container section and lid are rotated with relation to each other.

1,688,443. VENDING MACHINE. EDWIN G. WESSMAN, Easton, Pa., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania. Filed Mar. 17, 1925. Serial No. 16,127. 20 Claims. (Cl. 194—63.)



1. In a vending machine, a rotatable delivery part, and check controlled locking mechanism for said part including a rotatable disk to which said part is fixed against relative rotation, said disk being provided with a peripheral coin receiving and holding pocket, a detent to lock the disk from rotation in one direction and adapted to be held out of operative position by a coin in the pocket of the disk, and coin ejecting means comprising a member independent of the coin pocket, said member being supported on the disk to one side of the coin pocket thereof, and said member having a coin engaging portion extending laterally in the plane of the coin pocket of the disk and being movable relatively to the disk to move its coin engaging portion outwardly within the coin pocket toward the periphery of the disk to force a coin radially outward from the coin pocket of the disk, and actuating means for said member.

1,688,444. PAPER-TAKE-UP MECHANISM. ALBERT S. WHEELBARGER, Dayton, Ohio, assignor to Ohmer Fare Register Company, Dayton, Ohio, a Corporation of New York. Filed Jan. 17, 1927. Serial No. 161,038. 17 Claims. (Cl. 242—75.)

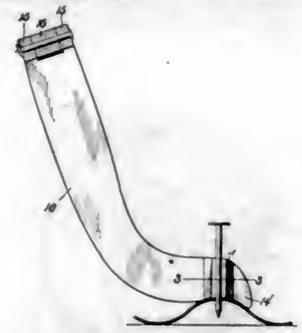


1. In a tensioning device, means whereby resistance is offered to the unrolling of a roll of paper for a predetermined number of revolutions thereof, and means thereafter offering a greater resistance to such unrolling.

1,688,445. NAIL HOLDER. ISAAC N. WILLIAMS, Folts, Ind. Filed June 23, 1927. Serial No. 200,886. 3 Claims. (Cl. 1—47.)

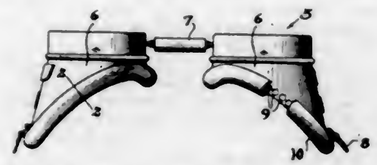
1. A device for holding nails to be driven through corrugated sheets comprising a pair of curved gripping jaws hinged at one end for limited pivotal movement; means at

the other end for grasping and holding a nail to be guided into the crest of a corrugation; and a curved edge asso-



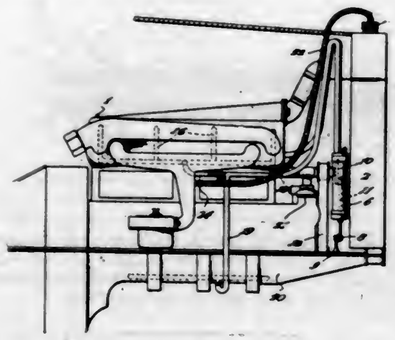
ciated with one of said jaws adapted to conform to the curvature of the corrugation and ensure centering the nail on the crest thereof.

1,688,446. GOGGLES. WILLIAM J. WRIGHTON, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed June 9, 1924. Serial No. 718,728. 1 Claim. (Cl. 2—14.)



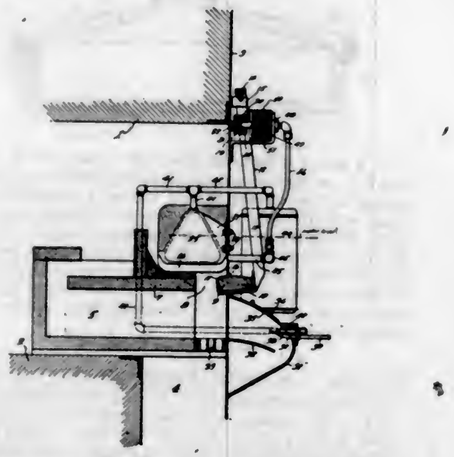
In a device of the character described, an eye cup having a series of transverse openings near its edge and spaced therefrom, a solid non-tubular soft binding having a slit portion from the edge inwardly past the center thereof pressed over the edge of the eye cup so that the opposite sides of the slitted portion of the binding contact through the openings in the eye cup, and an adhesive securing the contacting surfaces of the binding together.

1,688,447. DEVICE FOR COOLING GAS ENGINES. NELS J. BENSON, Geneva, Iowa. Filed May 2, 1927. Serial No. 188,312. 2 Claims. (Cl. 123—175.)



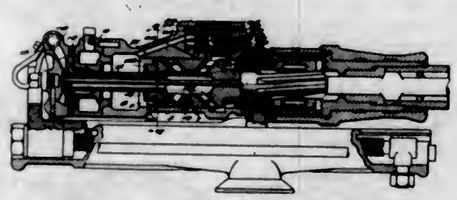
1. In combination with a gas engine, air pumps operable by the engine, manifolds in the water jacket of the engine and having branches carried thereby, and means for conducting air from the pumps into the manifold and branches for discharge from the branches into the water jacket.

1,688,448. FUEL-OIL BURNER. LEE S. CHADWICK, Shaker Heights Village, and MARC RESEK and JOHN ALGER DAHLSTROM, East Cleveland, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 18, 1924. Serial No. 726,657. 14 Claims. (Cl. 158—73.)



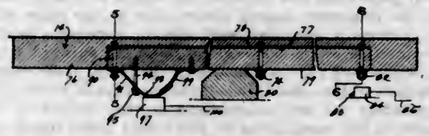
1. In combination, a steam operated oil burner of the injector type wherein the oil flow is solely responsive to the flow of steam, a steam generator exposed to a source of heat, a conduit of constant capacity leading from the steam generator to the burner whereby the steam supply to the burner varies according to the steam pressure in the generator, means for conducting fuel oil to the burner, means for varying the amount of heat delivered to the generator thereby to control the steam pressure therein and consequently the amount of steam delivered to the burner, means constantly subjected to and operated by the variable steam pressure in the generator for actuating the last mentioned means, and further means of variable resistance opposing the action of said last mentioned means.

1,688,449. PNEUMATIC HAMMER. OMAR E. CLARK, Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed June 30, 1924. Serial No. 723,363. 3 Claims. (Cl. 121—18.)



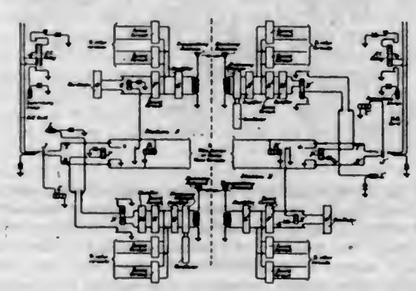
1. In a motor of the character described, the combination with a cylinder member having a piston chamber and a piston therein having an internal motive fluid supply chamber, of means for maintaining fluid under pressure in said chamber, said piston having spaced outlet ports from the chamber that alternately deliver fluid to the piston chamber on opposite sides of the piston and said ports being controlled by portions of the cylinder member, a supplemental passageway for motive fluid in the cylinder member having a port traversed by an outlet port of the piston, said supplemental passageway having an outlet port opening into the piston chamber on one side of the piston, and an exhaust port, and an automatic valve alternately opening an outlet port and exhaust port.

1,688,450. AUTOMATICALLY-OPERATED ORCHESTRAL DEVICE. WILLIE R. CORBETT, Paducah, Ky. Filed Oct. 1, 1923. Serial No. 665,991. 3 Claims. (Cl. 84—3.)



3. In a piano operated music producing apparatus the combination of a piano including strings, piano actions therefor, and keys for the piano actions, other musical instruments, and electric operating means for the other musical instruments, including circuits having switches carried by the piano keys, said switches each including a fixed contact and a resilient contact adapted to be maintained in engagement with its fixed contact to hold the circuit closed for a longer period of time than the time during which the hammer remains in engagement with the respective string of the respective piano keys.

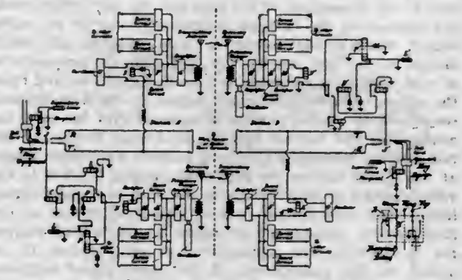
1,688,451. TELEPHONE SIGNALING SYSTEM. CHARLES S. DEMAREST, Ridgewood, N. J., and OWEN H. LOYNES, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 19, 1926. Serial No. 110,249. 9 Claims. (Cl. 179—41.)



1. In a telephone system, two central office stations, a plurality of voice channels connecting said stations, means at each station for transmitting radio signals, means at each station for receiving radio signals, and at each station in association with each voice channel the following: signal announcing means, means for producing signaling current peculiar in frequency to that station and to the voice channel, means for tuning the radio signal receiving means at that station to the peculiar frequency produced at the other station and corresponding to the voice channel, automatic means, responsive to signaling operations at that station, for connecting the current producing means to the radio signal transmitting means at that station, and automatic means for operating the signal announcing means at that station in response to radio signals received from the other station.

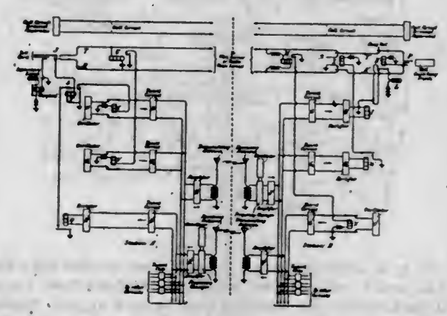
1,688,452. TELEPHONE SIGNALING SYSTEM. CHARLES S. DEMAREST, Ridgewood, N. J., and OWEN H. LOYNES, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 19, 1926. Serial No. 110,250. 4 Claims. (Cl. 179—41.)

1. In a telephone system including two central office stations and a voice channel connecting said stations, means at each station for transmitting radio signals, means at each station for receiving radio signals, a cord at the first station for outgoing calls, a jack for outgoing calls, terminating the voice channel at the first station, a plug terminating the voice channel at the second station, a switching trunk associated with the voice channel at the second station, an annunciator at each station, a first means at the first station for producing signaling current of a first certain frequency, a second means at the first station for producing signaling current of a second certain frequency, a first means at the second station for tuning the signal receiving means at said station to the first frequency produced at the first station, a second means at the second station for tuning said signal receiving means to the second frequency produced at the first station, means at the second station for producing signaling current of a certain frequency, means at the first station for tuning the signal receiving means at said station to the frequency produced at the second station, automatic means at the first station, responsive to the connection of the cord and the jack, for connecting the first current producing means to the radio signal transmitting means at said sation, automatic means at the second station for annunciator at each station, a second annunciator at each station, automatic means at each station, responsive to ringing current introduced at that station, for operating the signal generating and transmitting means at that station, automatic means at each station for operating



the first annunciator at that station in response to an initial radio signal received from the other station, and automatic means at each station for operating the second annunciator at that station in response to a subsequent radio signal received from the other station.

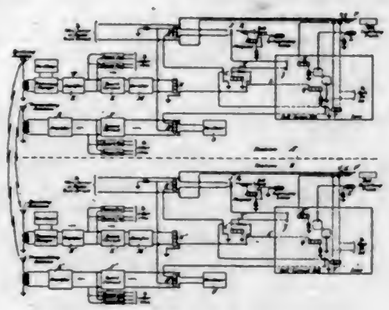
1,688,453. TELEPHONE SIGNALING SYSTEM. CHARLES S. DEMAREST, Ridgewood, N. J., and OWEN H. LOYNES, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 19, 1926. Serial No. 110,251. 4 Claims. (Cl. 179—41.)



1. In a telephone system including two central office stations and a voice channel connecting said stations, means at each station for transmitting radio signals, means at each station for receiving radio signals, a cord at the first station for outgoing calls, a jack for outgoing calls, terminating the voice channel at the first station, a plug terminating the voice channel at the second station, a switching trunk associated with the voice channel at the second station, an annunciator at each station, a first means at the first station for producing signaling current of a first certain frequency, a second means at the first station for producing signaling current of a second certain frequency, a first means at the second station for tuning the signal receiving means at said station to the first frequency produced at the first station, a second means at the second station for tuning said signal receiving means to the second frequency produced at the first station, means at the second station for producing signaling current of a certain frequency, means at the first station for tuning the signal receiving means at said station to the frequency produced at the second station, automatic means at the first station, responsive to the connection of the cord and the jack, for connecting the first current producing means to the radio signal transmitting means at said sation, automatic means at the second station for

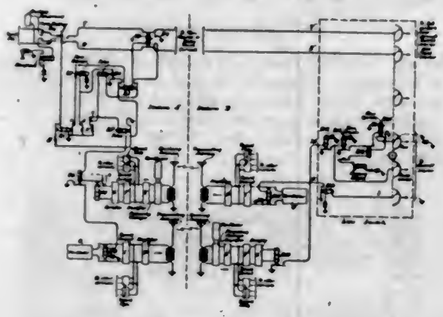
operating the annunciator at said station in response to a radio signal initiated in said first current producing means at the first station, automatic means at the second station, responsive to the connection of the plug and the switching trunk, for terminating the operation of said annunciator, automatic means at the second station, responsive to the connection of the plug and the switching trunk, for connecting the current producing means to the radio signal transmitting means at said station, automatic means at the first station for operating the annunciator at said station in response to a radio signal received from the second station, automatic means at the first station, responsive to ringing current introduced over the cord, for connecting the second current producing means to the radio signal transmitter at said station, automatic means at the second station for producing ringing current in the voice channel at said station in response to a radio signal initiated in said second current producing means at the first station, and automatic means at the second station for re-operating the annunciator at said station in response to the termination of the radio signal initiated by the first current producing means at the first station.

1,688,454. TELEPHONE SIGNALING SYSTEM. CHARLES S. DEMAREST, Ridgewood, N. J., and OWEN H. LOYNES, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 19, 1926. Serial No. 110,252. 2 Claims. (Cl. 179—41.)



1. In a telephone system including two central office stations and a voice channel connecting said stations, a cord at each station for outgoing calls, a cord at each station for incoming calls, a jack at each station for outgoing calls, a switching trunk associated with the inward cord at each station, a first annunciator associated with said inward cord at each station, a second annunciator associated with the outward cord at each station, means at each station for generating and transmitting radio signals, means at each station for receiving radio signals transmitted from the other station, automatic means at each station, responsive to the connection of the outward cord and the outward jack, for connecting the voice channel to the outward jack and simultaneously therewith operating the radio signal generating and transmitting means at that station to send an initial radio signal to the other station, automatic means at each station for operating the first annunciator at that station in rsponse to said initial radio signal received from the other station, automatic means at each station for terminating the operation of said first annunciator in response to the connection at that station of the inward cord and the switching trunk, automatic means at each station, responsive to the flow of direct current over the switching trunk at that station, for operating the radio signal generating and transmitting means at that station to send a responsive radio signal to the other station, automatic means at each station for operating the second annunciator at that station upon the reception of said responsive radio signal from the other station, automatic means at each station, responsive to the cessation and resumption of the flow of direct current over the switching trunk at that station, for terminating the operation of and re-operating, respectively, the radio signal generating and transmitting means at that station and the responsive second annunciator at the other station, automatic means at each station, responsive to the disconnection of the outward cord and the outward jack, for terminating the transmission of the initial radio signal from that station, and automatic means at each station for re-operating the first annunciator at that station in response to the termination of the initial radio signal received from the other station..

1,688,455. TELEPHONE SIGNALING SYSTEM. CHARLES S. DEMAREST, Ridgewood, N. J., and OWEN H. LOYNES, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 19, 1926. Serial No. 110,253. 4 Claims. (Cl. 179—27.)



1. In a telephone system, a first central office station, a second central office station, a voice channel connecting said stations, signal announcing means at the first station, automatic line selecting and switching means at the second station, means at each station for generating and transmitting radio signals, means at each station for receiving radio signals transmitted from the other station, automatic means at the first station, responsive to primary signaling operations at said station, for operating the radio signal generating and transmitting means at said station to send an initial radio signal to the second station, automatic means at the second station, responsive to said initial radio signal received from the first station, for effecting a primary operation of the automatic selecting and switching means, automatic means at the second station, responsive to the termination of said primary operation of the selecting and switch means, for operating the radio signal generating and transmitting means at said station to send a responsive primary radio signal to the first station, automatic means at the first station for effecting a primary operation of the signal announcing means in response to said responsive primary signal received from the second station, automatic means at the first station, responsive to secondary signaling operations at said station, for operating the radio signal generating and transmitting means at said station to send a secondary radio signal to the second station, automatic means at the second station, responsive to said secondary signal received from the first station, for effecting a secondary operation of the selecting and switching means, automatic means at the second station, responsive to signaling operations at said station, for operating the radio signal generating and transmitting means at said station to send a secondary radio signal to the first station, and automatic means at the first station for effecting a secondary operation of the signal announcing means at said station in response to said secondary signal received from the second station.

1,688,456. COMBINATION DINING TABLE AND CABINET. CYRUS DOLPH, Preston, Ontario, Canada. Filed Nov. 1, 1926. Serial No. 145,576. 4 Claims. (Cl. 45—47.)

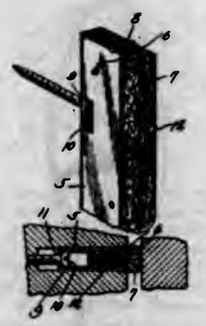


1. The combination with a table including a top, legs supporting the top and extension leaves hinged to the side edges of the top, of a plurality of cabinets revolubly mounted on the respective legs so as to swing inwardly underneath the table top or outwardly beyond the same, and means connected with the cabinets to support the adjacent ends of two table leaves in extended position when the cabinets are in their outer positions.

1,688,457. PROCESS FOR THE PRODUCTION OF THIN FILMS OF CELLULOSE DERIVATIVE. ARTHUR EICHENGRÜN, Charlottenburg, Germany, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Aug. 3, 1923, Serial No. 655,525, and in Germany Aug. 10, 1922. 14 Claims. (Cl. 18—57.)

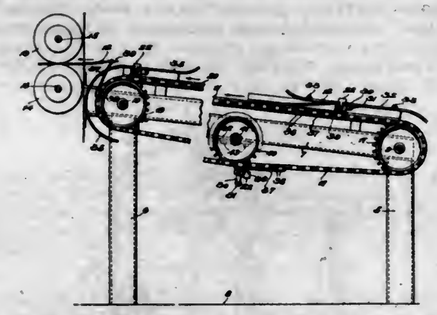
1. The process for the production of thin films of cellulose derivatives, especially of cellulose ethers and cellulose esters, which consists in spreading a solution of said cellulose derivative in a very thin layer upon a base comprising a cellulose derivative other than that used for the production of the film, to which has been added matter diminishing the adhesiveness of the dried film produced on evaporation of the solvent even if said film be of extreme thinness, said solution containing matter having no solvent action upon said base, removing said film when formed from said base, and rolling it into an endless band.

1,688,458. WEATHER STRIP. CLARENCE M. EVELETH, River Forest, Ill. Filed Dec. 1, 1927. Serial No. 237,072. 2 Claims. (Cl. 20—69.)



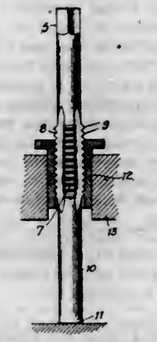
1. A weather strip including a metallic body portion having spaced side members formed with elongated openings, screws extending through the body portion, the heads of said screws being positioned within the elongated openings, to secure the screws to the body portion, to permit of rotary movement of the screws, and a felt strip secured to the body portion.

1,688,459. FEEDER FOR BLANK SCORING AND SLOTTING MACHINES. WILLIAM MORTON FORWARD, Battle Creek, Mich., assignor to Postum Company, Incorporated, Battle Creek, Mich., a Corporation of Delaware. Filed May 18, 1927. Serial No. 192,372. 18 Claims. (Cl. 271—45.)



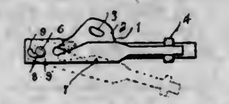
1. The combination with means to be fed, and a table or the like over which a sheet is fed to said means, of a pusher member for pushing the sheet along said table, and a movable device on the pusher member adapted to be engaged over the rear edge portion of the sheet to insure that it will be pushed along the table by said pusher member.

1,688,460. EXTRACTOR FOR REMOVING BUSHINGS AND THE LIKE. EMMETT L. FOWLER, Washington, D. C., assignor of one-half to John S. Privott, Washington, D. C. Filed Dec. 14, 1927. Serial No. 240,009. 8 Claims. (Cl. 29—88.2.)



1. In extractors for bushings; a metal bar of uniform diameter throughout its length and having between its ends mutilated cutting threads above the surface of the bar having blunted and reduced-diameter threads at their lower end and separated by longitudinal grooves depressed below the surface of said bar.

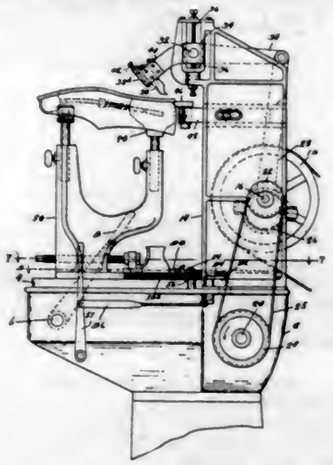
1,688,461. CHAIN CONNECTER. JAMES T. HUTTON, Farmington, N. Mex.. Filed Dec. 8, 1927. Serial No. 238,608. 1 Claim. (Cl. 24—242.)



A connecter for the terminals of chains of the class described, comprising a plate having a keeper carried thereby, a lever having a slot formed therein provided at its ends with lateral recesses, a stud carried by the plate for pivotally and slidably engaging said slot and capable of seating in the recesses for pivotal movement, said plate and lever having diagonally disposed open-ended slots

formed therein for receiving the links of a chain terminal, said lever being slidable relative to the plate for engagement with the keeper carried thereby.

1,688,462. MACHINE FOR AND METHOD OF HEEL-SEAT FITTING. RICHARD FRANCIS JOYCE, Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 23, 1919. Serial No. 325,760. 68 Claims. (Cl. 12—17.)



1. In a heel-seat fitting machine, a shoe support, a trimming knife movable to enter the sole of a shoe carried by said support from the tread surface of the sole at an acute angle thereto, means for operating said knife to sever surplus material by a succession of cuts along the periphery of the heel-seat of the sole, said shoe support being movable to transfer the point of operation of the knife along the work, and a crease guide occupying a fixed position with respect to the path of movement of said trimming knife and adapted to enter the rand crease to support the edge of the sole and to protect the upper.

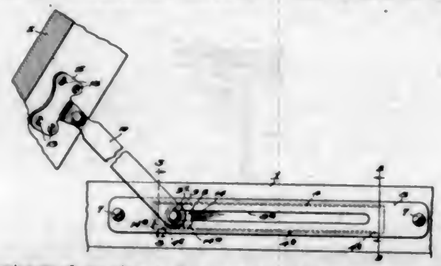
1,688,463. WEED AND VINE DESTROYER. OTTO KELM, Malcom, Iowa. Filed Oct. 6, 1926. Serial No. 139,924. 4 Claims. (Cl. 97—144.1.)



1. An apparatus for the purpose set forth comprising a frame, a rotatably mounted drum carrying a plurality of axially extending knives, dogs pivoted at their front ends on the frame in advance of the drum and extending rearwardly into the upper portion of the orbital path of the knives whereby their rear ends may abut the uppermost knife, releasing devices arranged below the dogs and in advance of the drum and upon which the free ends of the dogs rest, and means for actuating said releasing devices whereby to lift the dogs from the orbital path of the knives.

1,688,464. LID SUPPORT. ALBERT E. LANE, Mantua, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Aug. 20, 1925. Serial No. 51,496. 8 Claims. (Cl. 217—60.)

1. A device of the class described comprising, in combination with a supporting body and a member mounted for movement relative to said body, a guide member having side walls one of which is shorter than the other, means slidably mounted between said walls and having frictional engagement therewith, a link secured to said



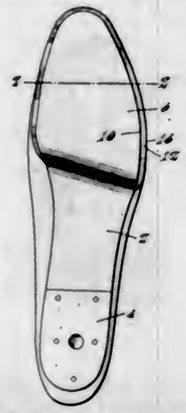
first-named member and said means, and resilient means interposed between the first-named means and the short wall for engaging the end of said short wall to yieldingly hold said first-named member in adjusted position.

1,688,465. CREAM-CAN-COVER HOLDER. DAVID J. LASSLE, Wishek, N. Dak. Filed Jan. 13, 1928. Serial No. 246,518. 4 Claims. (Cl. 220—55.)



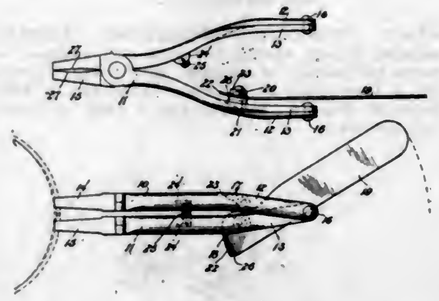
1. A securing device for milk can tops including lateral sections, said lateral sections having loops formed adjacent to their ends, and having loops formed at their ends, bolts extending through the first mentioned loops to secure the sections around a milk can neck, a lever pivotally supported within the last mentioned loops, and hook members fitted over the upper end of a milk can top positioned in the neck, and said hook members adapted to be forced into engagement with the milk can top by the levers.

1,688,466. LAST. JOHN J. MAHLER, New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 18, 1924. Serial No. 738,426. 3 Claims. (Cl. 12—133.)



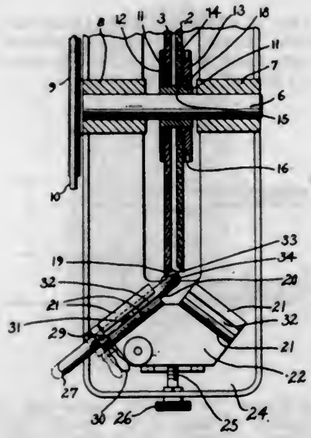
1. A last for use in the manufacture of stitchdown shoes having about its forepart a reentrant angle formed by plane surfaces between the side of the last and the bottom of the last.

1,688,467. PISTON-RING TOOL. JOSEPH MATECHIK, Weatherly, Pa. Filed May 5, 1927. Serial No. 189,029. 4 Claims. (Cl. 29—86.4.)



1. A tool of the character described, comprising, in combination, two pairs of pliers connected together, and means for forcing and holding the active ends of the pairs apart, including a roller on one pair and a pivoted lever on the other pair engageable with said roller.

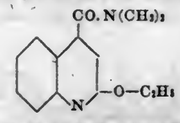
1,688,468. GRINDSTONE. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 4, 1926. Serial No. 152,554. 4 Claims. (Cl. 51—168.)



1. A bevelled edge grinding machine comprising a base, a shaft rotatably mounted on the base, a grindstone holding hub on the shaft, a sectional grindstone member on the hub having an angled grinding edge, a second sectional grindstone member movably mounted on the hub and having an angled grinding edge, the diameters of the adjacent faces of the grindstone members being shorter than those of the outer faces, means for locking the second grindstone member on the hub in spaced relation to the first grindstone member, guide way members on the base having truing tool guides parallel to the respective angled grinding edges of the grindstone members whereby each angled face of the grinding edges of the grindstones may be trued by a truing tool in the truing tool guide when the sections of the grindstones are separated and both sections locked with respect to the shaft.

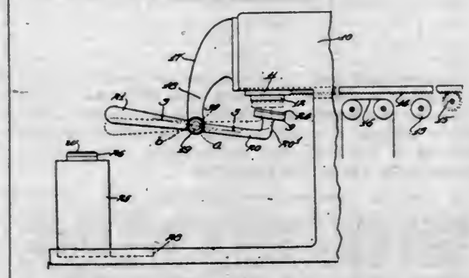
1,688,469. DERIVATIVES OF QUINOLINE CARBOXYLIC ACIDS AND PROCESS OF MAKING SAME. KARL MIESCHER, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Apr. 19, 1927, Serial No. 185,067, and in Switzerland Apr. 30, 1926. 11 Claims. (Cl. 260—39.)

11. As a new product of the α-ethoxy-γ-quinoline carboxylic acid dimethylamide of the formula—



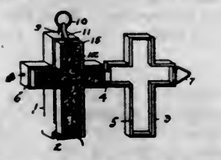
which forms colorless crystals of melting point 69° and is easily soluble in most organic solvents except in cold petroleum ether and likewise soluble in an excess of aqueous mineral acids, said product being useful in therapeutics.

1,688,470. PRINTING MACHINE. SKIDMORE O'HARA, Waltham, Mass., assignor to O'Hara Waltham Company, Waltham, Mass., a Corporation of Massachusetts. Filed July 8, 1927. Serial No. 204,271. 6 Claims. (Cl. 101—41.)



1. In a printing machine a die, a work support, a printing member mounted on an arm pivoted intermediate the die and the work support, a lever whereby the said arm may be swung on its pivot to move the printing member in a curved path in a vertical plane, said die and work support being so positioned that the lever is operative to press the printing member up against the die and to move the printing member around to position where it is operative to press the printing member down against the work on the work support.

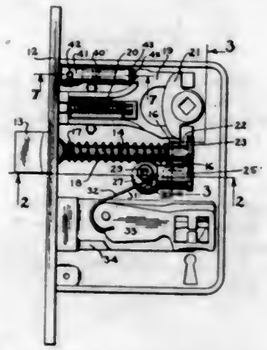
1,688,471. ROSARY CASE. MAURICE ROTHSTEIN, Johnstown, Pa. Filed Feb. 5, 1925. Serial No. 7,083. 1 Claim. (Cl. 206—19.



The combination of a cross-shaped hollow case having its front side open, the forward portion of the top, side and bottom walls of the case being reduced in thickness, a bifurcated lug projecting upwardly from the top wall of the case, said top wall having a slot therein extending from the lug to the forward edge of the reduced portion of said wall, an arm pivoted between the bifurcations of the lug and adapted to swing thereon in a vertical plane into the slot, projections upon opposite sides of the arm at its free end disposed in and closing the rear portion of the slot when the arm depends on its pivot, a rosary connected at one end to the free end of the arm and receivable by

the case, a cross-shaped door hinged to one wall of the case, and a lateral flange on the door which, when the door is closed, engages the surface of the reduced portions of the walls of the case and covers the portion of the slot therein.

1,688,472. LATCH. JOHN H. SHAW, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn. Filed Mar. 30, 1923. Serial No. 628,755. 19 Claims. (Cl. 292—169.)



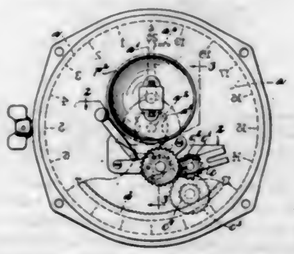
1. In a door latch, a case, a spring protracted latch bolt having a stem, a crosshead upon said stem, means to engage the crosshead to limit the protraction of the bolt, a plunger attached to said crosshead, a cylinder mounted in the latch case and adapted to receive the plunger when the bolt is protracted.

1,688,473. SHAFT FOR GOLF CLUBS AND THE LIKE. CHARLES B. SIPPEL, Chicago, Ill., assignor to Pyratone Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Mar. 8, 1928. Serial No. 260,005. 14 Claims. (Cl. 273—80.)



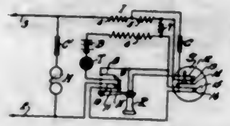
11. A golf club shaft embodying a core, a separate tubular protecting casing of nonmetallic, hard and flexible material encompassing the core, said casing being formed of a plurality of separate sections arranged end to end, the proximate ends of adjacent sections being disposed in close proximity to each other.

1,688,474. SIGNAL DEVICE FOR OIL-PUMP INDICATORS, ETC. EDWARD A. SLYE, Burnside, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 21, 1928. Serial No. 255,931. 2 Claims. (Cl. 116—67.)



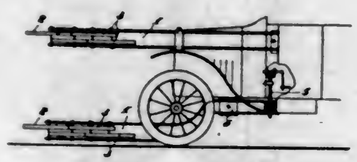
1. In an indicator for oil pumps, etc., the combination of a pointer, pump actuated mechanism for moving the pointer forward, a gong, a spring pressed signal hammer, a hammer operating cam, and operating means between the pump actuated mechanism and said cam including a ratchet and pawl connection, whereby said cam may have a movement independent of the pump actuated mechanism.

1,688,475. SUBSTATION TELEPHONE CIRCUITS. ARTHUR BESSEY SMITH, Evanston, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 5, 1924, Serial No. 684,486. Renewed July 5, 1928. 8 Claims. (Cl. 179—81.)



1. In a substation telephone set, a transmitter and local circuit therefor, an induction coil having a primary and two secondary windings the primary winding being connected in said local circuit, a resistance, a bridge across the two line conductors including in a series circuit said secondary windings and said resistance, a receiver and a condenser in series connected between one line conductor and the junction of said secondary windings, and a calling device having a pair of interrupter springs in series with one of said line conductors.

1,688,476. TRACK CLEARER FOR VEHICLES. JEAN VAN DE PUTTE, Assche, near Brussels, Belgium. Filed Dec. 20, 1927, Serial No. 241,425, and in Belgium Dec. 24, 1926. 2 Claims. (Cl. 293—49.)



1. A track-clearer for vehicles, comprising a frame member projecting in front of the vehicle and formed with two branches meeting at an angle ahead; a disc freely rotating about a vertical axis at the apex of the angle, a series of discs supported by each of said branches upon substantially vertical axes, said discs being capable of rotating freely in one direction only, namely in the direction ahead sidewards, all the discs overlapping each other in succession over a certain distance, substantially as described.

1,688,477. HAND TELEPHONE. OTTO WEEBER, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Sept. 11, 1925, Serial No. 55,651, and in Germany Jan. 22, 1925. 5 Claims. (Cl. 179—103.)

1. In a hand telephone, a receiver unit having terminals, a casing for receiving said unit, a cover for said casing to hold said unit in place, an element fastened to said casing,

means projecting from said element for making electrical contact with one terminal of said unit and additional means



projecting from said element for holding said cover in place, said cover being held in place only by said additional means.

1,688,478. ELECTRICAL CONDENSER. ARTHUR J. WEISS, West Orange, N. J., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 13, 1927. Serial No. 160,887. 12 Claims. (Cl. 175—41.)

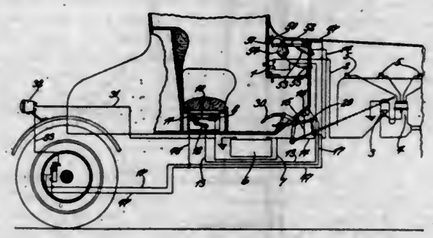


1. The method of treating a condenser body which comprises impregnating the same in a heated insulating compound, immersing the body while heated in another compound having a lower melting point, and cooling the body while so immersed.

7. A condenser body impregnated with an insulating compound throughout the greater portion thereof, and impregnated further with another compound throughout its remaining portions, said body being free from voids and having all interstices filled with compound.

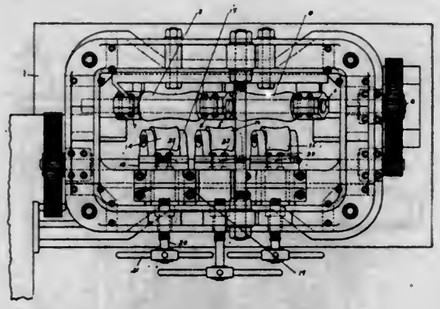
1,688,479. DEVICE FOR PREVENTING THEFT OF AUTOMOBILES ON HIGHWAYS. GEORGE A. WETTENGEL, St. Louis, Mo. Filed Mar. 14, 1924. Serial No. 699,387. 2 Claims. (Cl. 177—314.)

1. In a motor vehicle, the combination with the ignition circuit and the control switch therefor, an irreversible normally closed circuit breaking means in said circuit, a signal, means for intermittently operating said signal from the vehicle running gear including a relatively stationary part and means on said part movable into and out of engagement with a rotating part of the driving mechanism so as to cause said signal to operate intermittently in accordance with the travel of the vehicle and having means normally tending to move it into such engagement and means for normally holding the said means against such movement, said inter-



mittent operating means also including a device assuming an operative position upon a predetermined travel of the vehicle after the intermittent means is set into operation, means including an operating member adjacent the driver's position for releasing said holding means, and means set into operation when said device reaches its operating position to cause said irreversible circuit breaking means to open said ignition circuit.

1,688,480. STRAIGHTENING MACHINE. GEORGE A. WISE, Pittsburgh, Pa., assignor to Sutton-Abramsen Engineering Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 14, 1926. Serial No. 129,163. 12 Claims. (Cl. 153—60.)

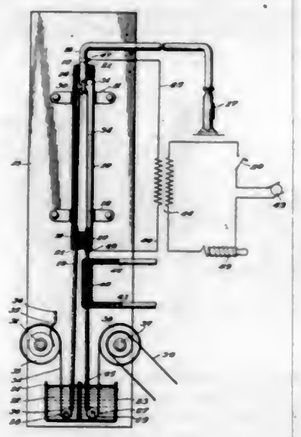


1. In a cross rolling machine for straightening round stock the combination of a contoured roll, means for driving said roll, an idle roll bracket mounted in opposition to said driven roll and adjustable angularly to vary the angle of crossing of the rolls, an idle roll in the bracket and independent means for tilting the idle roll in its bracket.

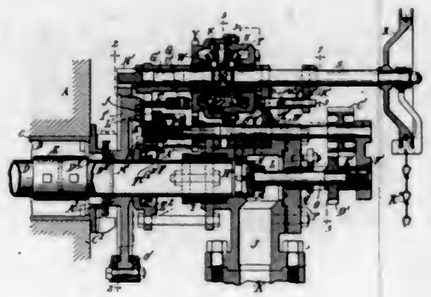
1,688,481. APPARATUS FOR PROCESSING WIRE. MINER MANLY AUSTIN, Waukegan, and CLARENCE W. BALKE, Highland Park, Ill., assignors to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Sept. 26, 1927. Serial No. 222,188. 9 Claims. (Cl. 266—3.)

1. In apparatus for processing wire, a sealed chamber, means for exhausting gases from said chamber, means for

continuously passing a wire into and out of said chamber without breaking the seal and an electrical circuit including a portion of the means for exhausting gases and a portion of the means for passing the wire out of the chamber.



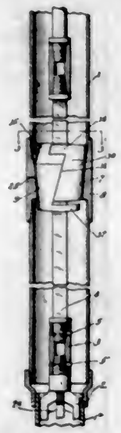
1,688,482. SOOT CLEANER FOR BOILERS. THEODORE M. BRUBACK, Du Bois, Pa. Filed Aug. 28, 1926. Serial No. 132,218. 11 Claims. (Cl. 122—392.)



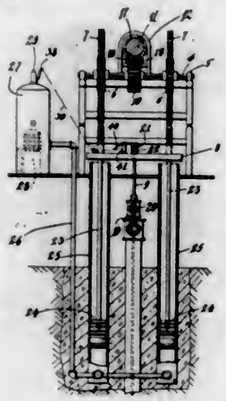
1. In a soot cleaner, a cleaner element, a conduit for cleaning fluid, a valve controlling admission of said fluid to the cleaner element, and means for operating the valve and turning the cleaner element comprising a differential gear train.

1,688,483. WELL MECHANISM. GROVER C. BUSHONG, Whittier, Calif. Filed Feb. 15, 1926. Serial No. 88,259. 8 Claims. (Cl. 103—202.)

1. The combination of a string of sucker rods and a member comprising axial sections having abutting edges adapted to radially expand or contract the member by relative axial movement between the sections, said member having a bore adapted to receive one of the sucker rods therethrough, and the bore and sucker rod having a cross-sectional shape preventing rotation while permitting reciprocation of the sucker rod relative to the sectional member.



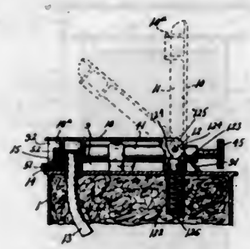
1,688,484. PUMPING APPARATUS. SAMUEL CLARK CARTER, Los Angeles, Calif., assignor of one-third to Anson Robinson and one-third to J. H. Carson, Los Angeles, Calif. Filed Apr. 27, 1926. Serial No. 104,888. 5 Claims (Cl. 103—206.)



1. In a long stroke pumping apparatus, the combination of a cross-head, yieldable means for securing the cross-head to a pumping rod, means for reciprocating the cross-head vertically, a piston secured to the cross-head, a cylinder mounted in position below the cross-head and in which the said piston is adapted to be reciprocated, means for supplying gas under pressure to the said cylinder, and signal actuating means secured to the cross-head and adapted to be actuated by the yieldable pump rod securing means in case of breaking of the pump rods.

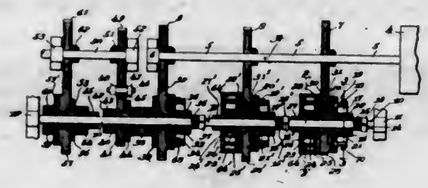
1,688,485. VAPOR CIGAR LIGHTER. EDWARD FOSTER CLARK, North Attleboro, Mass., assignor, by mesne assignments, to Clark Lighter Co., Inc., North Attleboro, Mass., a Corporation of Maryland. Filed Apr. 23, 1927. Serial No. 186,120. 5 Claims. (Cl. 67—7.1.)

2. In a vapor cigar lighter, a fuel container; a wick and wick holder mounted upon the top end of the container; sparking means adjacent the wick; wind break side walls and one end wall mounted upon the top end of the container



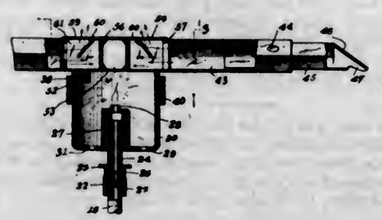
and enclosing the flame elements on three sides; a wind break pivoted on the end wall to shield the open top of the enclosure.

1,688,486. POWER-TRANSMISSION APPARATUS. ALBERT A. DENSMORE, Boston, Mass., assignor to Eclipse Machine Company, Elmira Heights, N. Y., a Corporation of New York. Filed June 10, 1920. Serial No. 387,841. 16 Claims. (Cl. 74—59.)



1. A change speed gear for automobiles comprising a plurality of drive gears and an individual clutch for each gear, the clutches being of the type permitting gradual engagement, and means for actuating each clutch by the associated gear.

1,688,487. GAS-BURNER IGNITER. WILLIAM F. DESTER, Newark, N. J., assignor to U. S. Tool Co., Inc., East Orange, N. J., a Corporation of New Jersey. Filed July 14, 1926. Serial No. 122,290. 7 Claims. (Cl. 158—115.)



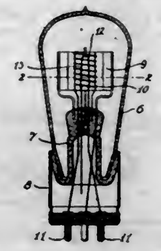
1. In an automatic gas burner igniter, the combination with a plurality of gas collectors arranged over a portion of the burner openings, of a Bunsen burner used as a pilot, a chamber enclosing said burner, said burner having a supply pipe, a forked guide on said chamber straddling said pipe, means on said guide to adjust the height of said chamber on said burner, said chamber being unsecured, means for clamping said collectors to said chamber, and a receiver unit on said chamber into which all of said collectors lead, said unit and chamber being in communication.

1,688,488. MUFFLER. ALBERT F. DORMEYER, Chicago, Ill. Filed June 21, 1926, Serial No. 117,294. Renewed Mar. 19, 1928. 23 Claims. (Cl. 137—160.)



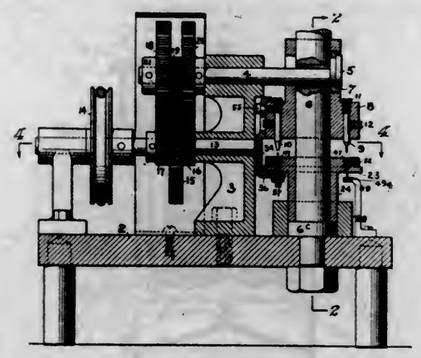
5. A muffler comprising a cylindrical shell, a web extending longitudinally thereof, and baffling elements struck out from the body of said web and projecting laterally from the opposite faces thereof, the edge of each element contacting with the inner periphery of the shell continuously from one diametrically opposed position therein to the other whereby the interior of the shell is divided into a series of baffling chambers.

1,688,489. VACUUM TUBE. EDGAR W. ENGLE, Lake Forest, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Apr. 14, 1926. Serial No. 101,900. 1 Claim. (Cl. 250—27.5.)



In a vacuum tube for radio purposes, a filament and a support therefor, the end of said support being made of tantalum and being wound about said filament so as to be heated thereby and absorb traces of gases which may be present in the tube.

1,688,490. MACHINE FOR APPLYING SOLDER TO PINS. ALBERT E. GIBSON, Springfield, Pa., assignor to The Dentists' Supply Company, a Corporation of New York. Filed Sept. 24, 1924. Serial No. 739,574. 11 Claims. (Cl. 29—33.)



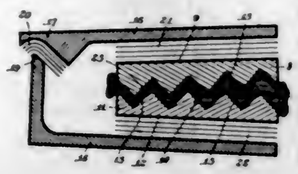
1. In a machine of the character stated, the combination of a reciprocating head, with a turret rotatable in a plane at right angles to the direction of reciprocation of the head, a plurality of female dies carried by the turret, a male plunger die and a hammer secured to and movable with the head and spaced at a greater distance apart than the dies on the turret, and magazine feeding means independ-

ent of the turret and spaced circumferentially to the turret intermediate of the plunger and hammer dies for feeding different articles to be united respectively to the female dies on the turret when adjusted to positions intermediate of the plunger die and hammer of the reciprocating head, and wherein further, the female dies are spaced 90° apart on the turret and at the same radial distance thereon, the plunger die and hammer are spaced 180° apart relatively to the axis of the turret, and the magazine feeding means comprise separate feeding tubes spaced 180° apart and respectively alternate with the plunger die and hammer.

1,688,491. MANUFACTURE OF MOLDED AND VULCANIZED RUBBER-CORK ARTICLES. RAOUL GRIMOIN-SANSON, Paris, and HERMAN DANIEL, Argenteuil, France. Filed Aug. 28, 1926, Serial No. 132,320, and in France Mar. 26, 1926. 2 Claims. (Cl. 106—23.)

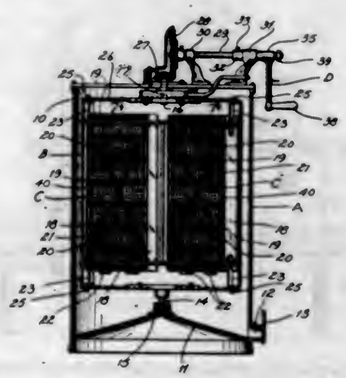
1. A new article of manufacture consisting of a molded and vulcanized mixture of rubber, powdered cork, emery and a vulcanizing agent.

1,688,492. METHOD OF MAKING DENTAL RECORDS. RUDOLPH L. HANAU, Buffalo, N. Y. Filed June 3, 1925. Serial No. 34,718. 11 Claims. (Cl. 32—4.)



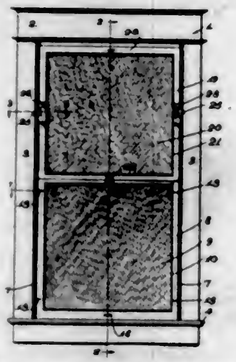
11. The method of registering jaw relations, which consists in applying wax to a denture or occlusal rim, in then biting into the wax to form impressions in the closing surface thereof, and in then forming the closing surface of said body of wax so as to contact throughout its entire length with its co-operating and determining element under no pressure.

1,688,493. CENTRIFUGAL HONEY EXTRACTOR. GEORGE Y. HARRY, Wapakoneta, Ohio. Filed Dec. 8, 1926. Serial No. 153,432. 2 Claims. (Cl. 210—65.)



2. In a device of the class described, a rotatable frame substantially rectangular in section; a pair of comb holders each having top-and-bottom angle-irons on one of its sides, each of said angle-irons having an indentation; set-screws adjustably mounted in said frame and arranged to engage said indentations, substantially as described.

1,688,494. WINDOW SCREEN. HARRY A. HENDREN, Sacramento, Calif. Filed May 31, 1927. Serial No. 195,313. 2 Claims. (Cl. 156—14.)



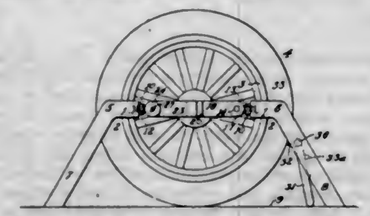
1. A window screen comprising an upper and lower section normally maintained in vertical alinement one above the other to completely fill the window opening, vertical guide rods mounted at opposite sides of the window opening, and hinge members slidably mounted on the guide rods and pivotally connected to the upper section, whereby said section may be moved inwardly and then guided downwardly to occupy a position parallel to the said lower section.

1,688,495. REED FOR LOOMS. FRITZ HOLLSTEIN, Hawthorne, N. J., assignor to John Grossgebauer, Paterson, N. J. Filed Sept. 3, 1927. Serial No. 217,320. 2 Claims. (Cl. 139—192.)



1. In a loom, a main reed, having immovable dents, in combination with a fore reed separate from and bodily movable in relation thereto and formed independently of said main reed and having horizontally flexible dents permanently spaced in fixed relation and corresponding in pitch to said immovable dents, and means for mounting said reeds upon the lay in spaced relation to each other, with said fore reed in front of said main reed.

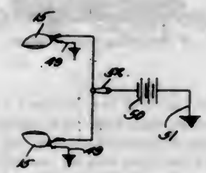
1,688,496. DEVICE FOR PREVENTING THEFT OR UNAUTHORIZED USE OF AUTOMOBILES. JOHN HOLTZMAN, New York, N. Y., assignor of one-half to Benjamin Roman, New York, N. Y. Filed Sept. 15, 1921. Serial No. 500,869. 12 Claims. (Cl. 70—90.)



1. An anti-theft device for automobiles having means projecting beyond the periphery of the automobile wheel, means to secure the device to the felly of said wheel,

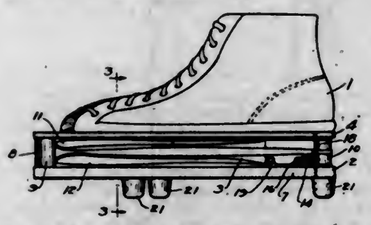
means to secure the device to the hub of said wheel, means to move said securing means parallelly to each other toward and away from each other for fitting the device to said wheel, and key operated mechanism to lock said securing means to each other.

1,688,497. AUTOMOBILE COMBINATION SIGNAL AND DIMMING LAMP. GEORGE K. HUNDLEY, Beckley, W. Va., assignor of one-half to James Hundley, Noblesville, Ind. Filed Feb. 17, 1923. Serial No. 619,674. 2 Claims. (Cl. 240—7.1.)



1. A fender light comprising a casing, a lamp within said casing, a reflector having the inner side thereof curved forwardly of and inwardly toward the lamp and terminating in the longitudinal axis of the lamp and having the outer side thereof terminating substantially in the transverse axis of the lamp, said reflector being positioned in said casing and spaced from the rear thereof and means for supporting said fender light, substantially as set forth.

1,688,498. SWIMMING SHOE. KARL OSCAR FREDRICK JACOBSEN, Seattle, Wash. Filed Sept. 13, 1926. Serial No. 135,065. 4 Claims. (Cl. 9—21.)

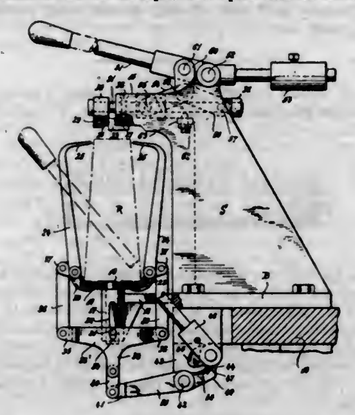


1. In a device of the class described a pair of blades pivotally supported at one end and adaptable to swing outward and to fold with one behind the other, and means for attaching them to the soles of the feet.

1,688,499. APPARATUS FOR CLOSING AND SEALING RECEPTACLES. ELLIS L. JONES, Long Island City, N. Y., assignor to Sealed Containers Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 19, 1927. Serial No. 227,162. 17 Claims. (Cl. 226—56.)

1. In apparatus for closing and sealing the open end of a receptacle of pliable material, an axially movable receptacle support, clamping jaws arranged in opposed and spaced relation to the receptacle support and having movement one relative to the other in a direction transverse to the movement of the support, means carried by the receptacle support to have movement toward and away from a receptacle on the support to collapse the open end thereof, and means operative to actuate said receptacle collapsing means and move the receptacle support to position the collapsed end of a receptacle on the support between the clamping jaws.

6. In apparatus for closing and sealing the open end of a receptacle of pliable material, a standard having laterally extended and vertically spaced projections, a receptacle support mounted in the lower standard projection to have movement toward and away from the upper projection, clamping jaws mounted in the upper projection one to have movement relative to the other transversely of the movement of the receptacle support, levers pivotally mounted at opposite sides of the receptacle support and between which levers a receptacle is adapted to be engaged upon the support, one arm of the levers being extended upward and said arms adapted to have movement toward and away from each other to collapse the open end of a receptacle

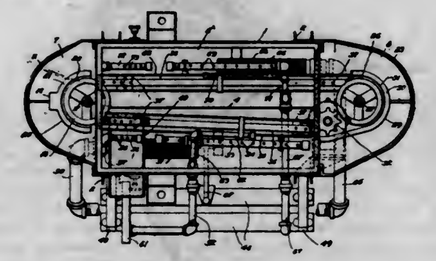


on the support, means to actuate the levers to impart receptacle collapsing movement thereto and in said position of the levers move the support to position the collapsed receptacle end between the jaws, and means to actuate the clamping jaws to secure a sealing member applied to the collapsed receptacle end.

1,688,500. METHOD OF PRODUCING PLASTIC AND MOLDABLE COMPOSITION. CARL KULAS, Leipzig, Germany. Filed Jan. 2, 1926. Serial No. 79,027. 2 Claims. (Cl. 18—47.5.)

1. The herein described method of producing a composition of matter for the purposes specified, consisting in mixing together dissolved resol and comminuted rubber, rapidly calendering the mass to expel volatile constituents therefrom and render it homogeneous, seasoning the mass at a moderate temperature maintained constant during the seasoning period, and finally drying the mass.

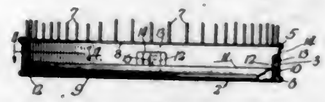
1,688,501. BOTTLE WASHING AND STERILIZING APPARATUS. OLAF LARSEN, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1923. Serial No. 667,220. 5 Claims. (Cl. 141—7.)



1. Apparatus of the class described comprising a tank longitudinally divided into two compartments, means for washing bottles in one of said compartments, means for rinsing bottles in the other of said compartments, a pair of tables secured outwardly of the ends of said tank respectively and extending across the ends of said compartments, a sheave pivoted upon one of said tables, a second sheave pivoted upon the other of said tables, an endless

carrier operatively supported on said sheaves and having one run passing through one of said compartments and the other run passing through the other of said compartments, a series of spaced holders mounted on said carrier adapted to receive inverted bottles and convey said bottles through said compartments for operation thereupon by said washing means and said rinsing means, and means for operating said carrier.

1,688,502. BIRD CAGE. LEWICKI J. LEON, Chicago, Ill. Filed June 23, 1924. Serial No. 721,674. 1 Claim. (Cl. 119—17.)



A base for bird cages having a marginal wall and a separable bottom wall, said bottom wall having an upright marginal flange to extend into said marginal wall, arms carried by the bottom wall and projecting above said flange, pins carried by said arms, and keepers with bayonet slots carried by said marginal wall on the inside to receive said pins for releasably connecting the marginal and bottom walls together.

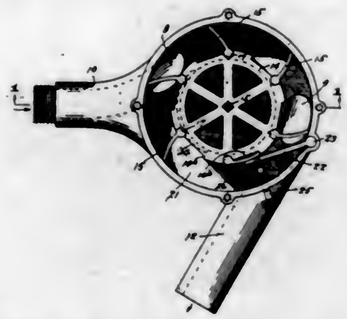
1,688,503. METHOD OF PRODUCING PHOSPHORUS CHLORIDE. CLAUDE G. MINER, Berkeley, Calif. Filed July 25, 1925. Serial No. 46,113. 5 Claims. (Cl. 23—205.)

1. A process of producing volatile phosphorus compounds from phosphate rock which comprises causing phosphate rock to react with a halogen salt of an alkali-metal in the presence of silica.

1,688,504. PROCESS OF PRODUCING ANHYDROUS ALUMINUM HALIDES AND NITROGEN BY-PRODUCTS. CLAUDE G. MINER, Berkeley, Calif. Filed June 28, 1926. Serial No. 119,233. 14 Claims. (Cl. 23—95.)

1. A process of manufacturing anhydrous aluminum halides which consists in passing an acid halide gas over aluminum nitride and a carbonaceous material at an elevated temperature.

1,688,505. GREASE-MEASURING DEVICE. JACOB C. MULDER, Oakland, Calif. Filed Mar. 6, 1926. Serial No. 92,846. 1 Claim. (Cl. 73—37.)



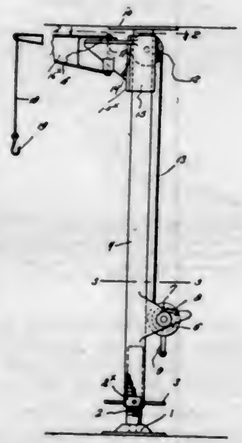
A device of the character described comprising a casing having inlet and outlet openings, a rotatable paddle wheel in said casing and paddles pivoted to said wheel and extending from the periphery thereof to said casing and adjustable means in said casing beyond said outlet opening for varying the area of the passage between said casing and said wheel, said adjustable means comprising a plate pivotally mounted in said casing, a screw pivotally connected to said plate, said screw threadedly engaging said casing, and extending exteriorly thereof whereby the position of said plate may be adjusted exteriorly of the casing.

1,688,506. SAFETY CLASP FOR WATCH CHAINS. HENRY J. RIVERS, Attleboro, Mass. Filed May 6, 1927. Serial No. 189,385. 3 Claims. (Cl. 24—3.)



1. A clasp for joining the sections of a watch chain comprising pivoted upper and lower gripping jaw members for engaging the clothing, a spring for normally urging the jaw members together and an insignia member secured to the upper one of said gripping members and arranged to conceal the same, and said insignia member being provided with openings for receiving the end link of the chain sections.

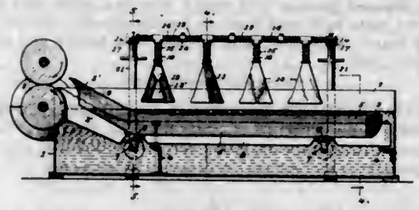
1,688,507. HOISTING APPARATUS. OTTO H. SCHUH, Denver, Colo. Filed July 19, 1926. Serial No. 123,583. 2 Claims. (Cl. 212—64.)



1. In a hoisting apparatus and in combination, an upright post having a diametrical slot in its upper portion, a member movable vertically on the post, and having a sleeve receiving the post, said sleeve being provided with a slot and with an offset portion opposite the slot, a sheave mounted in the slotted portion of the post and disposed in the post slot and the sleeve slot and adapted to move in the offset portion of the sleeve, a cable trained over the sheave and connected to the vertically movable member and crane means carried by and extending laterally from said sleeve of the vertically movable member.

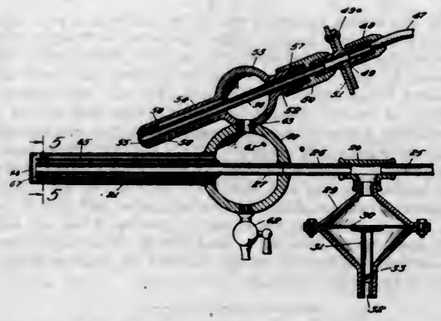
1,688,508. CONTINUOUS WASHING MACHINE. JAMES W. SHAW, Chicago, Ill. Renewal of application Serial No. 101,221, filed Apr. 10, 1926. This application filed Dec. 12, 1927. Serial No. 239,618. 12 Claims. (Cl. 141—5.)

1. In a washing machine, the combination of a tank, a series of longitudinal rails fixed in said tank, a series of longitudinal rails movably mounted in said tank intermediate said fixed rails, means for imparting a combined upward, forward, downward and rearward move-



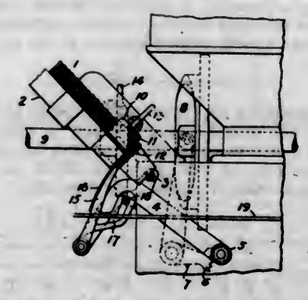
ment to said movable rails, and an open bottom pressure and suction head mounted in adjacent and superimposed relation to said rails.

1,688,509. OIL BURNER. CHARLES R. SMITH, Chicago, Ill. Filed Feb. 5, 1927. Serial No. 166,141. 7 Claims. (Cl. 158—73.)



1. In an oil burner, a heated steam generator, means for supplying water under pressure to said generator, a moist steam chamber communicating with said generator, a dry steam chamber communicating with said moist steam chamber, a nozzle for said dry steam chamber, an oil pipe disposed longitudinally and adjustably of said nozzle and dry steam chamber, the discharge terminals of said nozzle and oil pipe being capable of contact one with the other, a collar bushing connecting said nozzle and oil pipe, and thermostatic control mechanism for effecting the adjustment of said oil pipe and for regulating the supply of oil to said oil pipe.

1,688,510. DEVICE FOR FEEDING CUPS OR CONTAINERS TO FILLING OR OTHER MACHINES. CYRUS TAYLOR, Hartford, Conn. Filed June 30, 1926, Serial No. 119,714, and in Great Britain May 26, 1926. 1 Claim. (Cl. 312—44.)

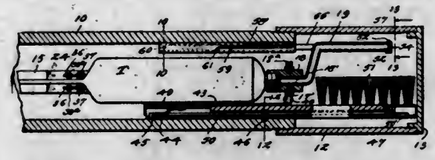


In combination, in a cup feeding device, an inclined open-sided magazine for the nested pile of cups, an adjustable movable rest on which such nested pile of cups rests, a cam-controlled lever for operating such rest, and arranged for actuation by a revoluble member of a machine in connection with which such cup feeding device may be used, a circular clamping device at the lower end of the magazine and a mechanism for causing same to alternately release and seize and hold the nested pile of cups, a separating device for removing the lowermost cup from the pile, and means for operating such separating device, as set forth.

1,688,511. PRODUCTION OF ROAD-SURFACING MATERIAL. FREDERICK WILLIAM VALLÉ-JONES, New Oxley, Wolverhampton, England, assignor to Fox, Stockell & Company, London, England. Filed Apr. 10, 1928. Serial No. 269,014, and in Great Britain Jan. 10, 1927. 5 Claims. (Cl. 94—23.)

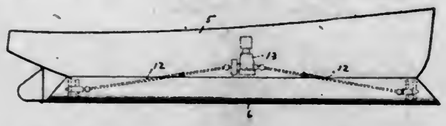
1. The process of producing road-surfacing material which comprises first heating and cleaning a coarse aggregate of the character of stone by means of steam and then bringing the aggregate while in a heated state together with a colloidal mixture of bituminous material.

1,688,512. TOOTH-PASTE-DISPENSING DEVICE. UEL THEODORE WALKER, Eccles, W. Va. Filed July 19, 1927. Serial No. 206,908. 11 Claims. (Cl. 221—60.)



1. In a tooth paste and tooth brush carrier, a carrier tube, a tooth paste tube carrier slidably mounted therein and embodying an outlet nozzle, a tooth brush likewise slidably mounted therein, means for shifting the tooth paste carrier longitudinally of the tube, means operated by shifting of the tooth paste carrier longitudinally of the tube for extending the brush, means for latching the brush in extended position and means for discharging tooth paste from a tube carried by the carrier upon the extended brush.

1,688,513. BOAT-PROPULSION MEANS. CARL L. YOUNG and ALBERT B. ROBERTSON, Amarillo, Tex. Filed Nov. 29, 1927. Serial No. 236,437. 1 Claim. (Cl. 115—16.)

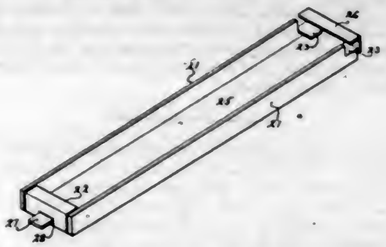


In a boat propulsion means, a longitudinal water tube arranged at the bottom side of the hull of the boat and being open at its opposite ends, the spider arranged within each end of the tube, a sleeve extending through each spider and projecting forwardly and rearwardly thereof, a stud shaft mounted for rotation within said sleeve, a propeller on the outer end of each shaft, and power driven shafts universally connected to the respective inner ends of the respective stub shafts.

1,688,514. MAGAZINE BINDER. HERMAN T. ARENDS, Highland Park, Mich. Filed Dec. 8, 1926. Serial No. 153,254. 2 Claims. (Cl. 281—25.)

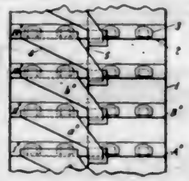
1. A binder for magazines or the like comprising two sections each having an inturned flange at one end, one

of said sections also having upturned sides and provided with guiding means for the other of said sections, the other of said sections adapted to slide longitudinally



within the first, the inner section being provided with a tongue adapted to pass through a slot in the end of the outer section and be bent over to fix the relative positions of the flanges.

1,688,515. PLATE COLUMN. THEODORE BAKER, Pompton Plains, N. J., and WILLIAM A. PETERS, Jr., Wilmington, Del., assignors to E. I. Du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 19, 1924. Serial No. 733,012. 6 Claims. (Cl. 261—114.)



3. In a plate column, a casing, a series of superposed bubbler plates, a series of partitions each of which divides one of the series of spaces formed between the successive bubbler plates into two portions which communicate with each other adjacent one end only of the partition separating them, and a series of down pipes from plate to plate, each down pipe extending from a liquor outlet point on one plate at one side of the partition on that plate through the partition on the plate next below to a liquor inlet point thereon.

1,688,516. DRAWING BOARD. CHARLES E. BARKER, San Francisco, Calif. Filed June 21, 1926. Serial No. 117,496. 2 Claims. (Cl. 45—131.)



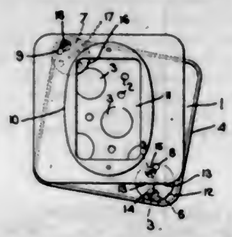
1. A device of the type described comprising a bolt, a board having a conical-shaped opening for receiving said bolt, said bolt having a head bearing against one surface of the board, spring means for yieldingly holding said head in contact with the board, a pair of plates mounted on said bolt, one of said plates bearing against said board, a nut for holding the second plate in position, said spring means being disposed between said plates, a spring connecting the second plate with said board, a handle movably carried by said board, and connections between said handle and said second plate.

1,688,517. METHOD OF AND MEANS FOR ARTIFICIAL-TOOTH FASTENING. JOSEF BEISLER, Hamburg, Germany. Filed Jan. 21, 1927, Serial No. 162,654, and in Germany Apr. 10, 1926. 2 Claims. (Cl. 32—9.)



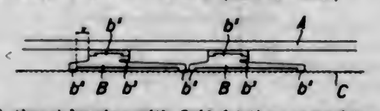
1. The herein described method of securing a porcelain tooth section to a backing plate, consisting in molding into the backing plate a substantially spherical pin-receiving cap formed in line with the face of the backing plate with an opening of materially less diameter than the maximum diameter of the cap and providing in the porcelain section a pin having a head, arranged beyond the section, corresponding approximately in diameter to that of the entrance opening of the cap, then filling the cap with cement and forcing the headed pin into and beyond the entrance of the cap to displace a portion of the cement and cause said cement to fill the space between the entrance opening of the cap and the head of the pin in a mass which in all directions radially of the axis of the pin exceeds the similar dimension of the entrance opening to the cap.

1,688,518. OUTLET-BOX-COVER ADJUSTER. JAMES G. BENNETT, Arlington, Mass. Filed May 21, 1927. Serial No. 193,335. 6 Claims. (Cl. 247—19.)



1. An outlet box comprising a receptacle, a cover plate therefor and a plurality of pivotally mounted adjusting members connecting said cover plate to said receptacle, each having a plurality of separated pivotal connections both with the cover and with the receptacle permitting angular adjustment of said cover relatively to the face of the receptacle.

1,688,519. THRUST BEARING WITH FLUID FRICTION. GEORG BÖHM, Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Filed Dec. 2, 1925, Serial No. 72,753, and in Germany Aug. 6, 1925. 7 Claims. (Cl. 308—160.)



1. A thrust bearing with fluid friction, comprising relatively rotatably bearing members, one of which consists of a thrust ring composed of a plurality of resilient ring sec-

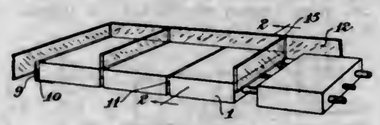
tions each carrying one bearing shoe rigidly secured thereto, radial supporting ribs arranged at the ends of said ring sections, said bearing shoes being arranged on said ring sections at points off-set from said supporting ribs and being undercut at the point where they are connected to said ring sections in order to increase the operative length of the resilient portion of the latter, said ring sections being more resilient on one side of said shoes than on the other.

1,688,520. BUTTON. CHARLES M. BONDY, Cleveland, Ohio, assignor to The Bondy Auto Top Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 27, 1928. Serial No. 257,217. 7 Claims. (Cl. 24—103.)



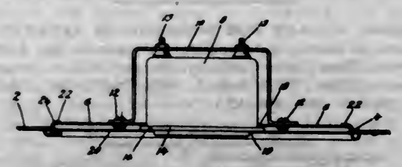
1. The combination with a button of a plurality of separate pin members secured to said button, at least one of said pin members being readily detachable from said button.

1,688,521. COUNTER BIN. ALEX J. BURG, St. Paul, Minn. Filed Apr. 30, 1927. Serial No. 187,803. 5 Claims. (Cl. 45—141.)



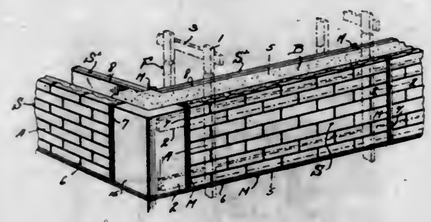
1. A counter bin structure, comprising longitudinal support members, a plurality of base blocks slidably mounted thereon, means interconnecting said base blocks to resiliently draw them together, and division wall plates removably inserted between the blocks to divide the structure into bins.

1,688,522. INSTRUMENT ASSEMBLY. ALBERT CHAMPION, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich. Filed Feb. 17, 1926. Serial No. 88,967. 3 Claims. (Cl. 180—90.)



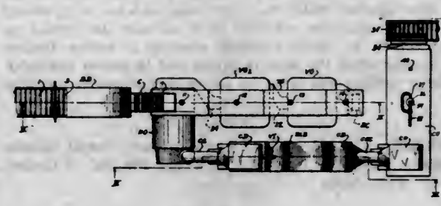
1. An instrument assembly comprising a supporting plate having an aperture therein, an instrument, means for securing the instrument to the supporting plate with a portion thereof projecting forwardly thru the aperture, said aperture being of a size to permit rearward withdrawal of the instrument, a face plate overlying the supporting plate and in spaced relation thereto and concealing said securing means, said face plate being provided with an aperture in which the said forwardly projecting portion of the instrument is snugly received.

1,688,523. WALL STRUCTURE AND METHOD OF BUILDING THE SAME. CHARLES HENRY CROWN, Peoria, Ill. Filed July 30, 1925, Serial No. 47,095. Renewed Sept. 19, 1927. 3 Claims. (Cl. 25—131.)



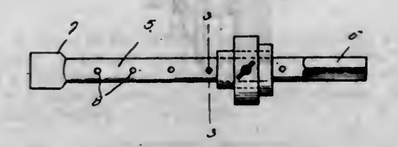
1. A method of constructing a building wall consisting in placing a tier of slabs, disposing a strip along a facing line of said tier, superimposing a second tier of slabs upon the first tier, and then inserting wedges through the strip and between the slabs of each tier to effect the desired spacing.

1,688,524. COTTON TREATING. ARTHUR COBB, Washington, D. C. Filed June 11, 1926. Serial No. 115,160. 3 Claims. (Cl. 19—66.)



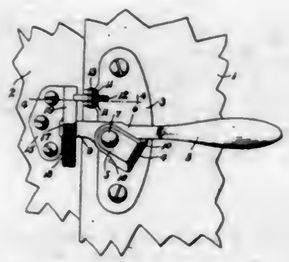
1. The process of conditioning cotton which consists in heating the cotton in a substantially dry atmosphere to temperatures in excess of 175° F. while it is being worked.

1,688,525. RADIATOR WRENCH. JOHN REMER COWART, Savannah, Ga. Filed Aug. 8, 1927. Serial No. 211,499. 2 Claims. (Cl. 81—71.)



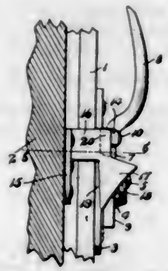
1. In a radiator wrench of the character described, a relatively elongated bar adapted to be engaged through the uniting nipples between the upper and lower ends of the radiator sections, one end of said bar being constructed for engagement with a predetermined one of the nipples, means upon the opposite ends of the bar whereby the same may be turned and means for engagement within the outermost section for limiting the inward engagement of the bar through said radiator sections, said means being longitudinally slidably adjustable upon the bar, and said bar being constructed with spacing markings whereby the means may be disposed at a predetermined point thereon so that the inner end of the bar will engage the proper nipple within the radiator when said means is arranged within the outermost radiator section.

1,688,526. LATCH. BASIL R. CRAMPTON, Grand Rapids, Mich., assignor to Winters & Crampton Mfg. Co., Grand Rapids, Mich., a Corporation of Michigan. Filed Apr. 25, 1927. Serial No. 186,250. 4 Claims. (Cl. 292—336.)



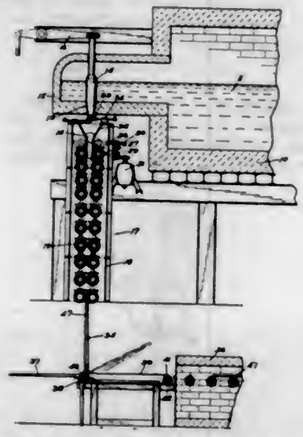
1. In combination, a door, a door casing therefor, a keeper attached to the door casing, a latch lever pivotally mounted between its ends on the door and having one end formed into a keeper engaging arm, said lever being swingable between a vertical and a horizontal position and vice versa, a member pivotally mounted on the door against which the lever engages when it is moved to vertical position whereby said member is turned on its pivot to an outer position wherein it comes against the keeper when the door is closed and is moved inwardly, thereby causing the lever to swing to horizontal position.

1,688,527. LATCH. BASIL R. CRAMPTON, Grand Rapids, Mich. Filed Apr. 9, 1928. Serial No. 268,762. 3 Claims. (Cl. 292—332.)



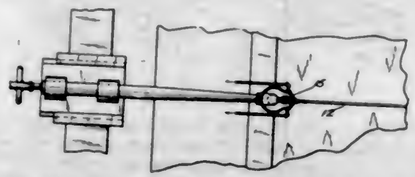
1. In combination, a door, a door casing therefor, a keeper attached to the door casing, a latch lever pivotally mounted between its ends on the door having one end formed into a keeper engaging arm and the other into a handle, said lever being swingable in a plane parallel to the face of the door from a vertical to a horizontal position and vice versa, a guide lug extending outwardly from the door, a rod slidably mounted through said lug and having a head at one end against which the lever engages when it is swung to vertical position acting to move said rod longitudinally, a second head at the opposite end of the rod having an inner cam side, said keeper being provided with a cooperating cam portion against which the cam side of said second head engages when the door is closed to thereby move the rod longitudinally in the opposite direction from which it is moved when the lever is turned to vertical position.

1,688,528. SHEET-FORMING APPARATUS. JOHN L. DRAKE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 20, 1925. Serial No. 26,600. 14 Claims. (Cl. 49—3.)



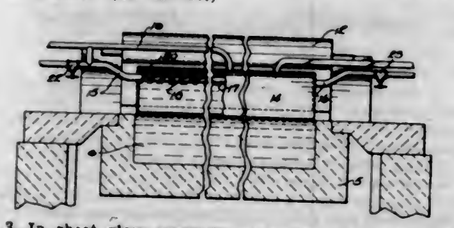
1. In sheet glass apparatus, a glass furnace, containing molten glass, means to discharge a gob of glass from the furnace, and a plurality of pairs of superimposed rotatable members between which the glass is adapted to pass to be reduced to sheet form.

1,688,529. SHEET-EDGE BLOCK. JOHN L. DRAKE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 25, 1925. Serial No. 32,555. 6 Claims. (Cl. 49—17.)



1. In sheet glass apparatus including a mass of molten glass, means to draw a sheet therefrom, slotted means arranged at the edges of the sheet being drawn, the edges of the sheet passing through and contacting with said slotted means, means for creating a suction within the slotted means, and means for circulating a cooling medium through said slotted means to prevent narrowing of said sheet.

1,688,530. COOLER FOR SHEET-GLASS APPARATUS. JOHN L. DRAKE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 3, 1926. Serial No. 133,327. 10 Claims. (Cl. 49—17.)



3. In sheet glass apparatus, a cooler, and means for introducing a cooling medium into either one or both ends thereof.

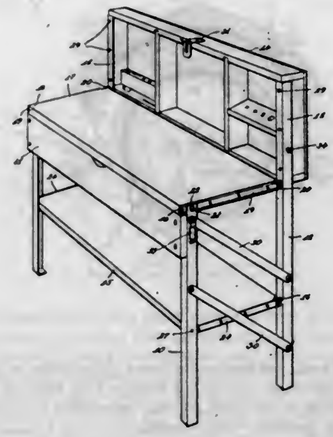
1,688,531. MANUFACTURE OF ARTIFICIAL SILK, ARTIFICIAL HORSEHAIR, AND THE LIKE. HENRY DREYFUS, London, England. Filed June 28, 1923, Serial No. 648,350, and in Great Britain Aug. 11, 1922. 3 Claims. (Cl. 18—54.)

1. Process for the manufacture of artificial filaments and threads, characterized in that the same are dry spun from concentrated solutions of organic substitution derivatives of cellulose containing not less than 25 per cent of cellulose derivative.

1,688,532. FILAMENTS OR THREADS OF CELLULOSE DERIVATIVES AND METHOD OF MAKING SAME. HENRY DREYFUS, London, England. Filed Sept. 16, 1926, Serial No. 136,000, and in Great Britain Mar. 29, 1926. 31 Claims. (Cl. 18—54.)

1. A process for the manufacture of artificial filaments or threads from organic substitution derivatives of cellulose of viscosities exceeding about 50, which comprises spinning solutions of said cellulose derivatives comprising less than about 15% calculated on the weight of the cellulose derivatives of a high boiling liquid that is not completely removed during the spinning operation.

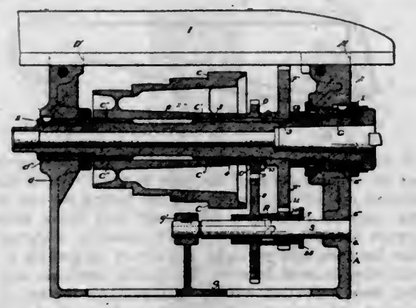
1,688,533. COMBINATION WORKBENCH AND TOOL HOLDER. GEORGE EGER, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 29, 1926. Serial No. 145,079. 6 Claims. (Cl. 144—285.)



1. In a combination work bench and tool holder, a front frame, a rear frame, means for connecting said frames and arranged to permit the front frame to be folded against the rear one, a tool chest on the rear frame having a pivoted lid movable to horizontal position to constitute a work bench top, and a shelf pivotally carried by the rear frame and movable to horizontal position, said top and said shelf having means adapted to interlock with said front frame to hold said frames in proper spaced relation.

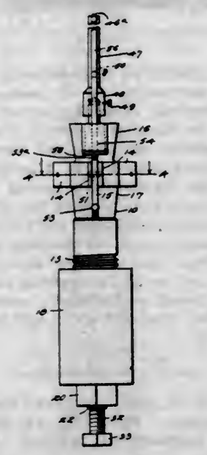
1,688,534. VARIABLE SPINDLE DRIVE. SOL EINSTEIN, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 8, 1923. Serial No. 673,546. 7 Claims. (Cl. 74—59.)

1. A machine tool combining a spindle; a gear-unit keyed thereto and providing a gear and a clutch-element; a driving member loosely journaled co-axially with said spindle; a shiftable gear-unit splined to said driving member and providing a gear and a clutch element adapted to engage said first mentioned clutch-element; a shiftable back-gear unit providing gears of unequal sizes adapted to mesh with gears on said two first-mentioned gear-units; and means



for shifting said shiftable gear-units at different rates successively to disconnect said clutch-elements and connect the back-gears with the gears of said two first-mentioned gear-units.

1,688,535. DEVICE FOR REMOVING MECHANICAL ELEMENTS FROM SHAFTS, ETC. ALVA K. ELLIS and RAY HENRY, Duncan, Okla. Filed Feb. 11, 1928. Serial No. 253,750. 16 Claims. (Cl. 29—86.)



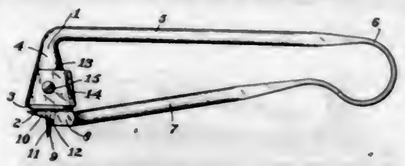
1. A device of the character described including a tubular body, a plunger rectilinearly movable in the body, and a rotatable element engaging with the body for forcing the plunger outward, the rotatable element having a rotative bearing on the plunger.

1,688,536. PAPER FASTENER. GEORGE H. ENNIS, New York, N. Y. Filed Mar. 22, 1928. Serial No. 263,933. 7 Claims. (Cl. 24—153.)



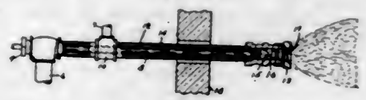
1. A fastener of the character described comprising a penetrating tongue angular in form, and a locking bar having a tongue-receiving portion beneath which the tongue may be slid, and flanges disposed in alignment with the tongue-receiving portion, the flanges being resiliently urged outward.

1,688,537. TACK PULLER AND DRIVER. GEORGE H. FAHRENBRUCH, Sheridan, Wyo. Filed Apr. 16, 1926. Serial No. 102,449. 1 Claim. (Cl. 145—30.)



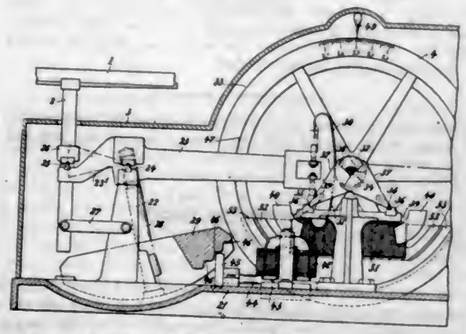
A tack puller and driver consisting of a rod reversely bent at a point between its ends forming spaced handle portions, one of the handle portions having its end angularly disposed forming a head, said head being disposed between the handle portions and normally bridging the space between said portions, the center of gravity of the head being located between the handle portions, and the other handle portion having spaced claws located at its free end and an outer plane surface disposed at a right angle to the axis of the head.

1,688,538. OIL BURNER. GEORGE A. FISCALINI, San Luis Obispo, Calif. Filed June 29, 1927. Serial No. 202,304. 1 Claim. (Cl. 158—73.)



An oil burner having an oil passageway therein and an air passageway surrounding the oil passageway, the walls of said air passageway extending beyond the end of the oil passageway for forming a mixing chamber having a greater cross-sectional area than the cross-sectional area of the two combined passageways, a partition closing the outer end of the chamber and having small openings therein for causing a slowing up of the oil and air in the chamber for partially mixing them and for mixing them still further as they pass through the openings, a nozzle for said burner spaced from said partition and having a single opening therein, and means for applying the same pressure to the oil and to the air, and manually controlled means for regulating the flow of oil and air to said burner independently of each other.

1,688,539. PRICE SCALE. JOHANNES FISCHER, Cologne-Holweide, Germany. Filed Aug. 13, 1925, Serial No. 49,956, and in Germany Oct. 24, 1924. 11 Claims. (Cl. 235—61.)



1. An automatic balance comprising in combination a calculating machine for establishing the price of the matter weighed, a weight indicating device including a drum, determining units on this drum for bodily representing the weights, a transmitting device arranged between the said drum and the calculating machine, this transmitting device including flexible tubes, spring-pressed wires embedded for shifting motion in the flexible tubes and having their ends near the drum projecting out of the tubes, and means for moving these ends radially with relation to the axis of the drum.

1,688,540. CLEANING COMPOSITION. STEPHEN D. FRANKO, Havre de Grace, Md., assignor of one-half to Harry Edgar Dyer, Havre de Grace, Md. Filed Oct. 13, 1926. Serial No. 141,430. 1 Claim. (Cl. 87—5.)

A cleaning composition, formed by mixing together the following ingredients in the following proportions, approximately one gallon of water, sulphur four ounces, three ounces of oxalic acid, two ounces of lead acetate, four ounces of sodium carbonate, two ounces of bicarbonate of soda, one half pound of sodium sulphite, two ounces of rock alum, three ounces of hydrogen peroxide, and one teaspoonful of perfume.

1,688,541. APPARATUS FOR DRYING METAL CANS. NORMAN H. GOLDSWORTHY and GEORGE FLOOK, Syracuse, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 17, 1927. Serial No. 213,678. 19 Claims. (Cl. 34—1.)

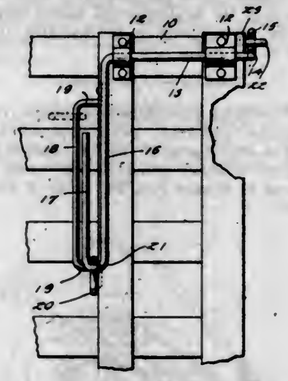
1. A drying apparatus for cans comprising a pad of absorbent material, means for moving said pad and means for imparting a combined rolling and sliding movement to the cans in contact with said pad.

1,688,542. PROCESS OF PREPARING PRODUCT FROM ACETYLENE-PLANT WASTE AND THE LIKE. DOUGLAS M. HARRISON, Dormont, Pa., assignor, by mesne assignments, to McKenzie Mortar Company, Pittsburgh, Pa. Filed July 5, 1924. Serial No. 724,541. 2 Claims. (Cl. 106—24.)

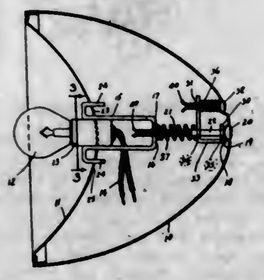
2. The process of treating waste carbide sludge material consisting of adding to the material calcium chloride, heating the mixture to separate the same into a plurality of strata, one of which consists of the resultant desired material, and another of which consists of the undesirable material.

1,688,543. END-GATE FASTENER. SIMON C. HIGHERS, Dixon Springs, Tenn. Filed Mar. 13, 1928. Serial No. 261,291. 3 Claims. (Cl. 292—106.)

1. In a securing means for the tail gates of stake wagons, a bar pivoted to the wagon side and having at its rear end a hook and at its forward end an angular arm, the tail gate having an eye, the hook being positionable to receive the eye when the arm of the bar is vertically disposed and above the bar and being fully engaged therewith when the arm is vertically disposed and below the eye.



1,688,544. LAMP FOCUSING AND ADJUSTING DEVICE. SAMUEL W. HYATT, Connersville, Ind., assignor to Indiana Lamp Corporation, Connersville, Ind., a Corporation. Filed Jan. 28, 1927. Serial No. 164,191. 3 Claims. (Cl. 240—44.)



1. In combination in a lamp having a light bulb support and a casing, a reflector therein with an elongated centrally positioned slot through which said light bulb support projects, said slot having oppositely directed aligned extensions, a U-shaped light bulb support supporting strap, said support being secured at the free end of said strap, said strap having a threaded central aperture and a pair of laterally and outwardly directed arms seatable in said slot extensions and longitudinally and transversely movable therein, and a rotatable swivelably mounted member having a tool engageable casing exposed portion and an opposite threaded portion for central aperture threaded engagement, another member similar to the first mentioned member and similarly mounted upon said casing and in adjacent and substantially parallel relation thereto, and an angular lever having multiple anchorage on said first mentioned member and threaded engagement with the second mentioned member whereby rotation of the latter secures cocking of the former and rotation of the former member secures adjustment of the arms in said extensions and the strap with the light bulb support in said elongated slot.

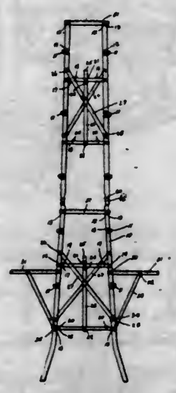
1,688,545. PROJECTED WINDOW. KITARO KATO, Tokyo-Fu, Japan. Filed July 14, 1927, Serial No. 205,703, and in Japan Dec. 30, 1926. 2 Claims. (Cl. 189—66.)

1. An improved projected window comprising a swinging sash with horizontal axes slidably mounted on rails and a sliding sash provided with counter balances, a pulley, a chain or rope passed over pulley, means connecting one end of said chain or rope to said swinging sash, means for detachably connecting the other end to said sliding sash,



said other end carrying a pulley, hand ropes secured to the top and bottom of said swinging sash the lower one of which passes over the guide pulley arranged on said chain or rope, substantially as described.

1,688,546. KNOCKDOWN CONVERTIBLE STAND. WILLIAM C. KIRK, Indianapolis, Ind. Filed Jan. 18, 1927. Serial No. 161,788. 3 Claims. (Cl. 211—74.)

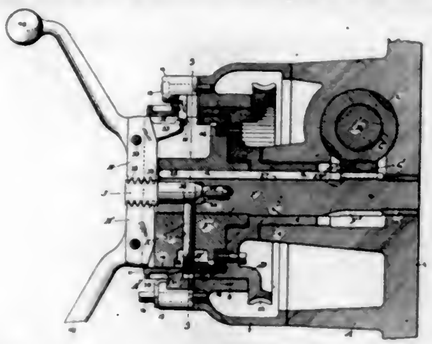


1. A knockdown display stand, comprising a pair of stand units, each comprising four legs arranged in pairs, two opposite pairs being rigidly connected together for forming sides and the intermediate pairs being collapsibly connected together for knockdown purposes, the upper ends of the lower stand legs and the lower ends of the upper stand legs being complementary and forming a detachable connection between the units.

1,688,547. AUTOMATIC POSITIVE-FEED CLUTCH FOR DRILLING MACHINES. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 25, 1921. Serial No. 495,396. 18 Claims. (Cl. 77—33.)

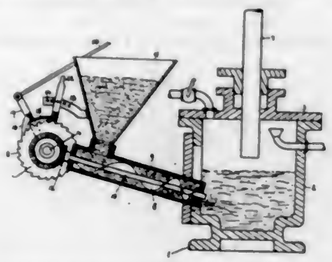
1. A machine-tool combining a translatable sleeve; a spindle rotatively affixed thereto; a power-driven transmission for translating said sleeve; and a clutch serially related to said transmission and comprising inter-mesh-

ing members tending to become disengaged under the torque of the transmitted motion means comprising a sliding cam and a member moved thereby for normally



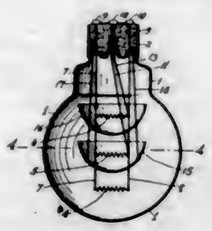
holding said members in engagement; and hand-manipulated means for shifting said cam selectively to effect engagement and release of said members.

1,688,548. BRONZE-STAMPING MILL. ALFRED LEBRECHT, Nuremberg, Germany, assignor to L. Auerbach & Co., Furth, Germany. Filed Mar. 11, 1927, Serial No. 174,612, and in Germany Mar. 15, 1926. 6 Claims. (Cl. 83—57.)



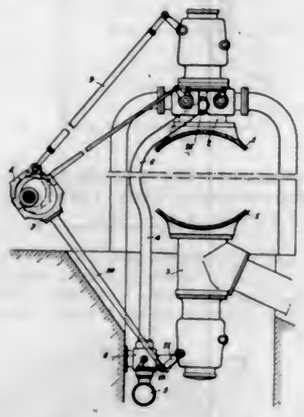
1. A method of working for bronze stamping mills and the like with uninterrupted charging and discharging of the stamper pot, comprising pushing the raw material into the stamper pot at the bottom, underneath the material already present therein.

1,688,549. ELECTRIC LAMP. BARTOLOMÉ LLAURADÓ, Santiago, Cuba. Filed Sept. 25, 1926, Serial No. 137,772, and in Cuba Sept. 11, 1926. 3 Claims. (Cl. 176—34.)



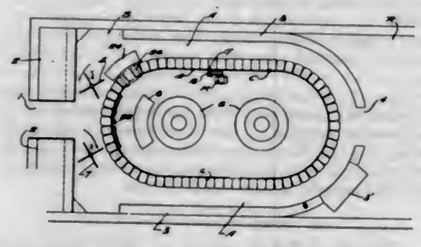
1. An electric light lamp having a plurality of glow filaments surrounded, respectively, by semispherical hollow glass bodies of different colors, wires supporting these semi-spherical bodies from the insulating filler of the lamp, another glow filament located between the semi-spherical body farthest from the insulating filler of the lamp and the spheroidal end of the lamp, wires supporting the latter filament from the insulating filler and passing through holes in the semi-spherical bodies, and wires connecting these glow filaments to insulated terminals at the outside of the lamp.

1,688,550. INTERNAL-COMBUSTION ENGINE. NICOLAS EMILIEN METHLIN, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France. Filed Dec. 3, 1925, Serial No. 73,070, and in France Jan. 16, 1925. 7 Claims. (Cl. 123—76.)



7. In an internal combustion engine of the type having a combustion chamber, admission and exhaust valves therefor, an admission chamber communicating with said combustion chamber through the admission valve port, and a pair of valves controlling the admission of air and gas to said admission chamber, scavenging means comprising a collector of air under pressure, a conduit connecting the latter with said admission chamber, a rotary distributing valve in said conduit, and common means for simultaneously opening and closing said exhaust valve and said distributing valve, whereby air under pressure is admitted to said admission chamber before said admission valve lifts and is cut off from said admission chamber when said exhaust valve closes.

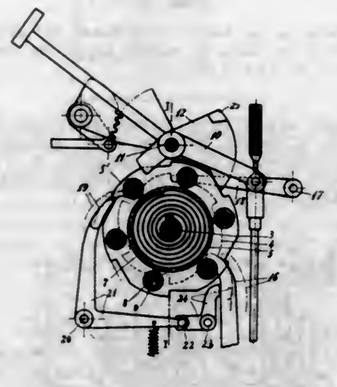
1,688,551. SELF-SERVICE STORE. TOMMIE C. NIX and MACON D. MILLER, Hazel, Ky., assignors to O. A. Harker, jr., Puryear, Tenn. Filed May 20, 1926. Serial No. 110,486. 1 Claim. (Cl. 198—181.)



In a store fixture, a supporting counter, spaced endless trackways upon the top of said counter, a plurality of containers having traction means movable over said trackways, V-shaped members attaced to the bottoms of said

containers with their ends projecting beyond one end of the containers, means for pivotally connecting the ends of the V-shaped members of adjacent containers, upstanding racks carried by the containers at one end thereof, and means engageable with the racks for imparting movement to the containers over the top of said supporting counter.

1,688,552. SELF-REGISTERING AND TICKET-DISTRIBUTING PERSONAL-WEIGHING SCALE. JAKOB NOBS, Thoune, Switzerland. Filed Oct. 11, 1926, Serial No. 140,992, and in Switzerland Oct. 13, 1925. 1 Claim. (Cl. 101—66.)

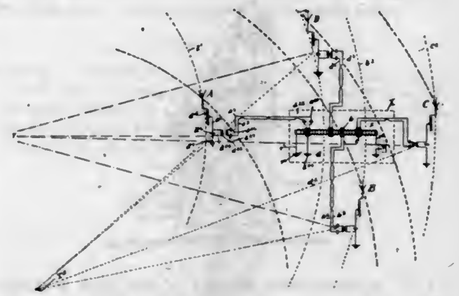


In a self-registering and ticket-distributing personal weighing scale and in combination, a cocking-device of the stamping hammer in operative dependence of said scale and comprising a journalled axle, a ratchet wheel fast to this axle and a spring barrel mounted loosely thereon and having one side wall formed as a second ratchet wheel toothed in an opposite sense to the first ratchet, a rod attached to the platform of the scale and adapted to engage said first ratchet with a finger-shaped end, a stationary pawl engaged in this same ratchet, a pivoted tail-hammer and a trundle-gearing at the periphery of the barrel within operative reach of the hammer's tail and adapted to establish the cocked position of the hammer, a tension spring attached to the hammer in a way to increase its striking power, a rod attached to the hammer so as to maintain its striking position and depending on releasing means, a stationary pawl adapted to engage the second ratchet and provided with a lateral projection established in the path of the hammer's tail and a set of angular levers arranged so as to be capable of regulating the blocking and unblocking of the two ratchet wheels and to throw-out the finger controlled by the scale's platform and a lengthening provided on one of said angular levers and extended into the path of the first ratchet so as to constitute the operating means of the said levers.

1,688,553. DYEING OF MATERIALS MADE WITH OR CONTAINING CELLULOSE DERIVATIVES. HENRY CHARLES OLPIN, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Apr. 11, 1927, Serial No. 183,014, and in Great Britain Feb. 9, 1927. 16 Claims. (Cl. 8—5.)

1. Process for dyeing materials comprising an organic substitution derivative of cellulose, comprising applying thereto a sulphuric ester of an anthraquinonylamino alcohol.

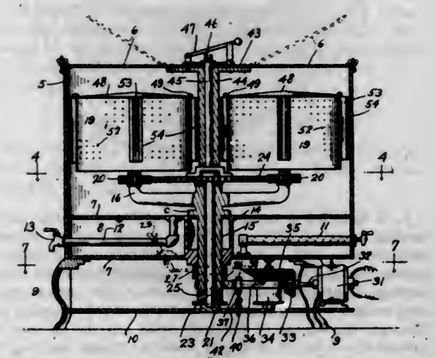
1,688,554. RADIOTELEGRAPHY. RICHARD HOWLAND RANGER, Newark, N. J. Filed Aug. 15, 1921, Serial No. 492,403, and in France July 18, 1919. Renewed Jan. 28, 1927. 23 Claims. (Cl. 250—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In radio receiving systems, the combination of a plurality of separated receiving antennæ, a common receiving apparatus, a relatively long coil connected thereto and a plurality of coupling coils, one associated with each antenna and with said long coil, said coupling coils being independently shiftable relatively to said long coil.

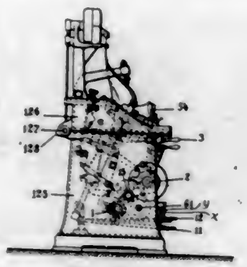
10. In radio receiving systems, the combination of a plurality of receiving antennæ having different characteristics, a common receiving apparatus for said antennæ, transmission lines connecting said antennæ to said common apparatus, means for balancing said transmission lines comprising means for selectively tuning each side of said transmission lines, and means for independently regulating the phase of currents from said transmission lines at said receiving apparatus.

1,688,555. CLOTHES-WASHING MACHINE. ARNOLD RANKIN, Portland, Oreg. Filed Nov. 3, 1927. Serial No. 230,772. 3 Claims. (Cl. 68—18.)



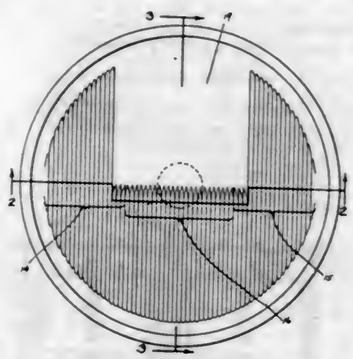
1. In a clothes washing machine of the character described, a water tank, a shaft journaled through the bottom of the tank, a hollow shaft surrounding said first mentioned shaft and projecting into said tank, radiating arms upon the upper end of the hollow shaft, clothes containers mounted for rotation upon the ends of said arms, a driving connection between the upper end of the first mentioned shaft and said clothes containers, which clothes containers are provided with perforations, a single power unit and means whereby either shaft may be independently operated, and means whereby either shaft may be prevented from rotation.

1,688,556. PULLING-OVER MACHINE. IVAN RIESZ, Weissenfels, Germany. Filed Nov. 5, 1920, Serial No. 422,045, and in Germany Dec. 23, 1918. 6 Claims. (Cl. 12—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a pulling-over machine of the class described, pincers for stretching an upper and for laying its margin upon an insole, a ratchet mechanism for holding the pincers in stretching position, means for adjusting the ratchet mechanism operable during the stretching movement of the pincers, and means allowing the ratchet mechanism to move in a reverse direction while the pincers lay the margin of the upper upon the insole.

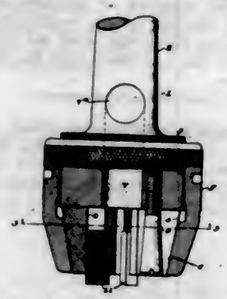
1,688,557. LENS FOR VEHICLE LAMPS. WALTER D'ARCY RYAN, Schenectady, N. Y. Filed Dec. 27, 1926. Serial No. 157,197. 3 Claims. (Cl. 240—48.4.)



1. A lens for a headlight comprising a central portion having a series of vertically-extending prisms extending thereacross, said series comprising a central group of prisms for refracting light in opposite directions and effecting a lateral distribution thereof, the upper ends of said prisms terminating substantially in a horizontal plane through the center of the lens, said lens being free from prisms above such horizontal plane for freely emitting light therethrough without substantial refraction, and a plurality of vertically extending prisms on each side of said first-mentioned group of prisms comprising means for refracting light towards the axis of the lens.

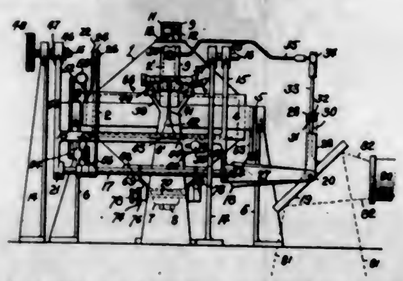
1,688,558. HOLLOW MILL. OLE SEGERSON, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 20, 1924. Serial No. 757,198. 13 Claims. (Cl. 29—105.)

1. In a hollow mill, the combination comprising a body member having a head portion; detachable blocks secured to said head; detachable wedge shaped blades secured to said blocks; means comprising serrations on the sides of the blades and on the blocks, for varying the position of



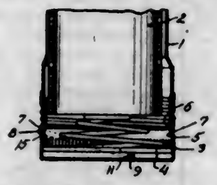
the blades in the blocks; and means for varying the position of the blocks to radially adjust the blades with respect to the axis of the mill.

1,688,559. GYROSCOPIC LINE OF SIGHT STABILIZER. ELMER A. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed July 21, 1921. Serial No. 486,526. 18 Claims. (Cl. 88—1.)



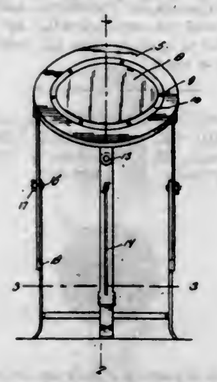
1. In combination, a support, a gyroscope and a reflector mounted thereon, the gyroscope being connected to the reflector to control the position thereof, means for indicating the position of the gyroscope with respect to the earth, and means for adjusting said reflector with respect to the earth without disturbing the gyroscope.

1,688,560. BATTERY HAND LAMP. HENRY W. STAPLES, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed July 26, 1927. Serial No. 208,455. 10 Claims. (Cl. 240—10.5.)



1. In a hand lamp, the combination of a battery casing, a cylindrical end cap secured to one end of said casing, a substantially arcuate supporting loop having a larger radius of curvature than the outside radius of said end cap hingedly secured to the cylindrical wall of said cap adjacent the end thereof and movable to a position substantially concentric with the outside cylindrical wall of said cap, and a projection on the cylindrical wall of said cap for engaging said loop and releasably retaining said loop in a position substantially concentric with said cylindrical wall.

1,688,561. PRACTICE DRUM. JOSEPH J. STRAUB, Brooklyn, N. Y. Filed Oct. 30, 1926. Serial No. 145,240. 2 Claims. (Cl. 84—420.)



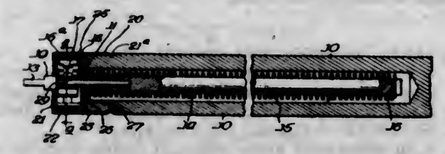
1. In a practice drum of the class described, a flat circular wooden base plate formed with a circumferential channel in the upper face thereof inwardly of the perimeter of said circular plate, drumming material arranged over the central portion of the upper face of the base plate, the edge portion of said drumming material being adapted for disposition in the circumferential channel, and a metallic ring secured entirely within the channel, and clamping the drumming material in a taut position.

1,688,562. PICTURE HOOK AND WIRE ADJUSTER. MAL SCOTT SYKES, Jackson, Miss. Filed Sept. 24, 1926. Serial No. 137,443. 1 Claim. (Cl. 294—19.)



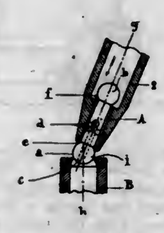
In a device of the class described, a pole, a combined picture hook and picture wire engaging element of U-shape formation at one end of the pole, said engaging element being secured to the pole intermediate the ends of the parallel arms of the U thereby forming a cup adjacent one side of the pole adapted to engage a picture hook and on the other side of the pole a notch in the upper edge of each of the arms adjacent the open end of the U, said notches adapted to engage the picture wire.

1,688,563. SHADE-ROLLER CONSTRUCTION. JOHN K. TOMLINSON, Chicago, Ill. Filed Feb. 18, 1927. Serial No. 169,196. 8 Claims. (Cl. 156—36.)



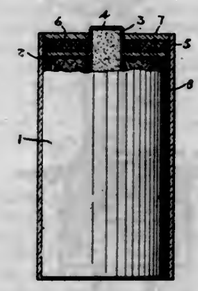
1. A shade roller holding construction comprising a pawl rotatable with the shade roller, and moved to non-holding position by centrifugal force when the shade roller is rotated, said pawl having a lateral projection and means cooperating with said pawl for holding the shade roller against rotation, comprising an abutment member for engaging the powl to stop rotation of the roller and a laterally extending retaining flange which overlies the lateral projection of the pawl when the pawl is in holding position, to prevent accidental release of the shade roller.

1,688,564. COUPLING DEVICE. LOUIS GASTON TRINQUART, Paris, France, assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 19, 1923, Serial No. 633,333, and in France Oct. 25, 1922. 5 Claims. (Cl. 221—47.4.)



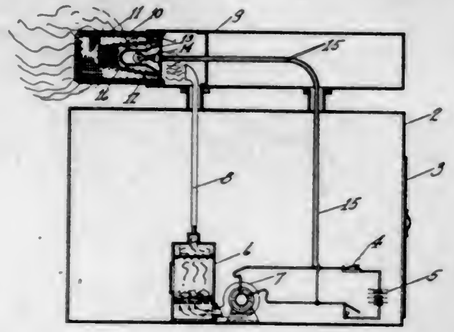
1. A coupling for lubricating devices and the like, comprising a container for the material to be distributed having a longitudinal outlet passage provided with valve seats at opposite ends thereof, and a coupling member freely movable endwise in said passage and provided at its inner and outer ends with heads which are rigid therewith and adapted to fit against the respective valve seats and close the same; said member having a length sufficiently greater than that of said passage to enable one head to be unseated when the other is seated, and a diameter sufficiently less than that of the passage to provide an annular space between the walls of the said member and passage for the discharge of the material therethrough when the inner head is unseated, and also having an axial bore which opens laterally at its inner end through the wall of said member into said space to enable the material to flow into said bore from said space, and which opens at its outer end through the outer head; combined with a tubular receiving member having an annular edge to receive the outer head of the coupling member and form a liquid-tight joint therewith while permitting relative rotation and inclination between said members.

1,688,565. DRY BATTERY. WILLIAM MICOU TURNLEY, Toronto, Ontario, Canada. Filed Jan. 4, 1926. Serial No. 79,146. 4 Claims. (Cl. 136—133.)



1. In a dry cell, the combination with the metallic container of an adhesive sealing material closing the top of the container, and a preformed disc of fibrous insulating material placed over and secured by said adhesive sealing material and extending over the edge of the container.

1,688,566. ADVERTISING DEVICE. ROY VAN AUSDALL, Reily, Ohio. Filed Oct. 20, 1927. Serial No. 227,572. 6 Claims. (Cl. 40—126.)



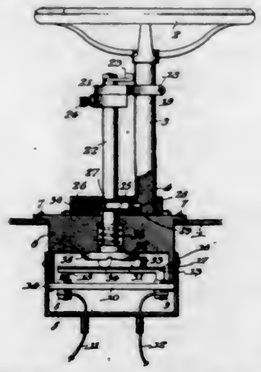
1. An advertising device comprising a casing shaped to represent a tobacco package, with a representation of an article to be smoked supported above said casing, an end of said article being open and having a hollow tubular screen covering the opening, with the outer side of the screen decorated to represent ashes, means for intermittently internally illuminating the hollow screen, a source of smoke, and means for emitting smoke from said source through the open end of said article.

1,688,567. BUS-BAR STRUCTURE. CHARLES F. WAGNER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 24, 1920. Serial No. 412,461. 10 Claims. (Cl. 173—81.)



1. The combination with a plurality of inductively related alternating current conductors, of current responsive means for effecting a predetermined selective distribution of current therein.

1,688,568. COINCIDENTAL LOCK FOR AUTOMOBILES. ARTHUR AUGUSTUS WELMAN, Evansville, Ind. Filed June 14, 1927. Serial No. 198,796. 1 Claim. (Cl. 70—127.)



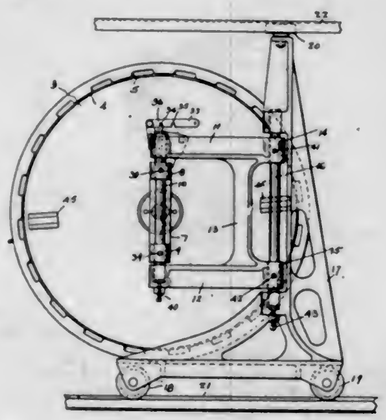
In a combined safety device and lock for automobiles, the combination with the steering shaft of the automobile, of a controlling shaft, means for turning said controlling shaft to different positions, a lock for locking the controlling shaft where set, a mutilated pinion carried by the controlling shaft, a spring-pressed locking rack engaged by said mutilated pinion which is adapted to lock the steering shaft or to be disengaged therefrom, and a circuit-controlling switch and an arm operated by said operating shaft and adapted to open or close the switch according to the setting of said shaft.

1,688,569. BUILT-UP SHAFT OR ROD AND THE LIKE AND METHOD OF PRODUCING SAME. THEODOR WENSEL, Chicago, Ill. Filed June 6, 1927. Serial No. 196,804. 11 Claims. (Cl. 144—309.)



1. The method of making a built up shaft or rod and the like which consists in providing a length of straight grained fibrous material, splitting the same with the grain into a plurality of strips, straightening each strip by a confining pressure, making each strip wedge shaped in cross section, applying an adhesive to said wedge shaped strip, and then grouping a full complement of said wedge shaped strips about a common axis to provide said built up shaft or rod.

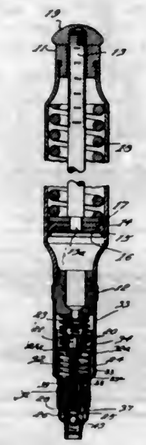
1,688,570. VULCANIZER HEAD. HERBERT LLOYD WILLIAMS, Akron, Ohio, assignor to The Williams Foundry & Machine Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 6, 1924. Serial No. 697,238. 12 Claims. (Cl. 18—6.)



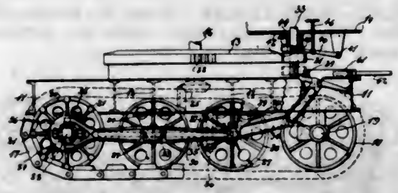
1. In a vulcanizer, the combination with a horizontally disposed casing forming a vulcanizing chamber open at one end, a carriage movable transversely of said casing, a bracket pivotally mounted on said carriage, and a cover supported on said bracket and movable into and out of registration with said casing.

1,688,571. LUBRICATING SYSTEM. OSCAR ZERK, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Filed Jan. 20, 1922. Serial No. 530,515. 9 Claims. (Cl. 221—47.4.)

1. In combination with a nipple for feeding lubricant to an element to be lubricated, a grease gun comprising a barrel, means for constantly exerting pressure within the barrel, a discharge nozzle connected with the barrel, a valve interposed between the discharge end of the nozzle and the barrel, means projecting from the nozzle for opening said valve, and telescopic coupling means extending from said barrel for connecting the grease gun to said nipple by exerting longitudinal manual pressure on the gun whereupon said valve opening means will be operated.



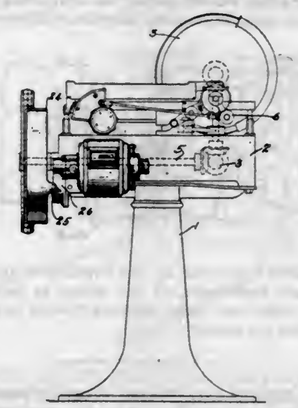
1,688,572. STEERING MECHANISM. SVANTE R. W. M. BAGER, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a Corporation of Delaware. Original application filed May 2, 1923, Serial No. 636,137. Divided and this application filed Aug. 13, 1926. Serial No. 128,984. 2 Claims. (Cl. 180—9.2.)



1. In a machine of the character described, the combination of: a base frame; a head frame supported thereby and rotatable with respect thereto; traction means supporting said base frame; steering mechanism; means for actuating said steering mechanism; a rack carried by the base frame; a pinion depending from the head frame and directly engaging said rack, whereby to rotate the head frame relative to the base frame; and one means whereby the rotation of said pinion, although said rotation is continuous, can be rendered inoperative to effect the rotation of the head frame and operative to operate, otherwise than by means passing through the axis of rotation of the head frame, the means for actuating the steering mechanism.

1,688,573. MEAT-SLICING MACHINE. LEONARD L. BLOCH, New York, N. Y. Filed Oct. 8, 1927. Serial No. 224,789. 3 Claims. (Cl. 146—102.)

1. In a slicing machine, a frame having a downwardly projecting flange, a plate fitted to the rear surface of said flange, a motor housing having a flanged plate fitted to the front surface of said flange, means for clamping together said plate and the flange of the frame, a driving motor carried within said housing having a driving pulley, a grooved balance wheel for driving said slicing machine and a belt extended between said pulley and said balance wheel.



1,688,574. SECTIONAL HEADER FOR WATER-TUBE BOILERS. ALFRED COTTON, St. Louis, Mo., assignor to Heine Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 8, 1922. Serial No. 550,809. 4 Claims. (Cl. 122—360.)

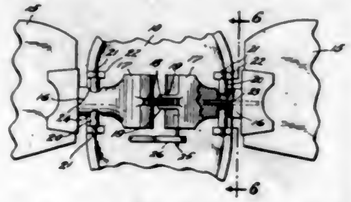


1. In a water tube boiler, a vertically-disposed sectional header adapted to be connected to an adjacent section by a nipple, said header being provided at its upper end with an opening through which a nipple can be introduced into the header without disconnecting the header from its supporting means, an overhead supporting structure, and means depending from said supporting structure and engaged with parts on said header located below the upper end of same for sustaining said header.

1,688,575. MECHANICAL-FIGURE TOY. LEWIS D. CROSSETT, Seattle, Wash., assignor of one-half to Pierre Barnes, Seattle, Wash. Filed Mar. 29, 1927. Serial No. 179,244. 2 Claims. (Cl. 46—40.)

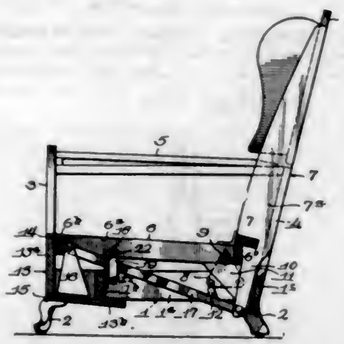
1. A bird toy, having wings adapted to be flapped by a head breeze, said toy having a hollow body, wings, stems therefor extending through opposite walls of said body, rocker shafts for connecting the wings to the body for substantially vertical flapping movements, pins connecting the stems of the wings to the aforesaid rocker shafts permitting rotary movements of the wings about axes longitudinally of the respective wings, connections between the associated

stems and rocker shafts being such as will prevent longitudinal movement of the wings relative to the axes of the respective rocker shafts, means for connecting the wings together for conjoint flapping and rotary movements, and



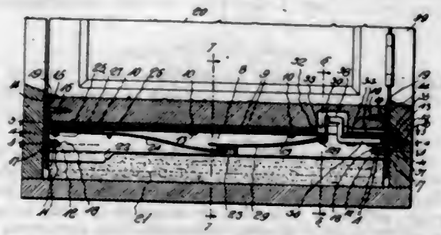
means rendered operable by the flapping of the wings to effect rotary movements of the wings to present alternately the upper and lower surfaces thereof into operative relation with the breeze.

1,688,576. RECLINING CHAIR. HARRY F. DOYLE, Aurora, Ill., assignor to Kroehler Mfg. Co., Naperville, Ill., a Corporation of Illinois. Filed May 14, 1926. Serial No. 109,007. 2 Claims. (Cl. 155—106.)



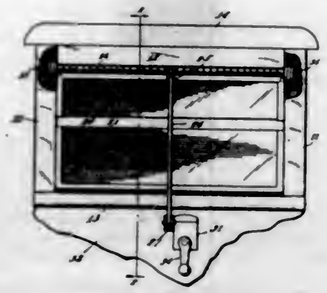
1. A reclining chair comprising a chair frame, a tiltable frame hung on trunnions in said chair frame and forming seat and back portions, a leg rest hinged to the forward edge of said seat, a bar extending from front to rear of said chair frame beneath said seat and pivotally connected at its rear end to said tiltable frame and at its front end with said leg rest, said chair frame having a transverse frame member below said seat and rearwardly of the leg rest, friction plates mounted on said frame members and embracing said bar and adjustable tension means acting on said plates.

1,688,577. WEATHER STOP. JAMES R. DUPEN, Chico, Calif. Filed Oct. 24, 1927. Serial No. 228,400. 3 Claims. (Cl. 20—68.)



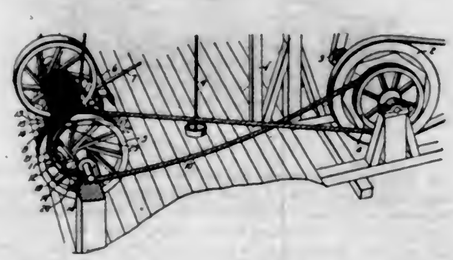
1. In a weather stop, a horizontally elongated open-ended casing for reception in a groove in the lower end of a door, said casing having members in its open ends formed with openings, a pair of vertical end plates for said casing of a length to project upwardly therefrom, said plates having lower openings alined with the aforesaid openings and upper openings above the casing to receive fasteners for securing the plates to the door edges, and threaded fasteners passing through said lower openings and the first named openings, said threaded fasteners permitting different spacing of the end plates from the casing to compensate for variance in door widths.

1,688,578. WINDSHIELD REGULATOR. KARL FEILCKE, Indianapolis, Ind. Filed Aug. 2, 1923. Serial No. 655,345. 12 Claims. (Cl. 296—84.)



1. In an automobile or other vehicle, a body including a windshield support, a windshield pivotally mounted in said support, spring means tending to turn said windshield about its pivotal axis in one direction, a self-locking crank-operated device mounted on said body, and means for connecting said crank-operated device with said windshield for rotating said windshield against said spring means, said connecting means including a flexible member for transmitting tension only.

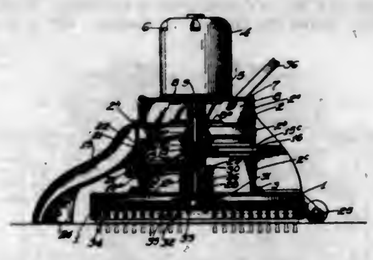
1,688,579. BELT PLACER. HARRY H. FRANKS, Tulsa, Okla. Filed Feb. 24, 1927. Serial No. 170,496. 2 Claims. (Cl. 64—51.)



1. In combination with a wheel having peripheral flanges forming a grooved rim, a belt placer comprising a strip of angle iron curved on an arc of gradually reducing radii with one of its walls lying against the rim of the wheel, and brackets on the outer wall of the angle member attached to the wheel to secure the placer to the wheel with the end of shorter radii adjacent the rim of the wheel.

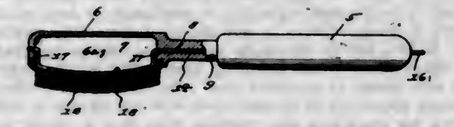
1,688,580. COMBINED VACUUM CLEANER AND POLISHER. JOHN W. GERNANDT, San Diego, Calif. Filed Dec. 3, 1924. Serial No. 753,622. 4 Claims. (Cl. 15—49.)

1. In a machine of the class described, a supporting frame, a motor mounted thereon, a polishing member revolubly mounted co-axially with said motor near one end of said frame, and a clutch means adapted to connect said



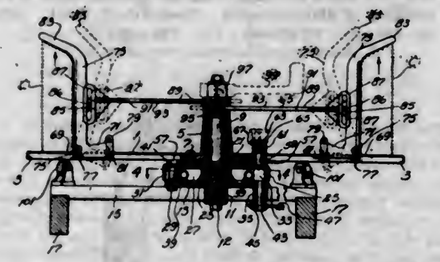
motor with said polishing member and force the latter beyond said frame.

1,688,581. TOOTHBRUSH. NATHAN GLASSMAN, Brooklyn, N. Y. Filed Sept. 9, 1927. Serial No. 218,499. 2 Claims. (Cl. (15—167.)



1. A brush of the character described comprising a head portion, a handle associated with said head portion, presenting concave side portions, a resilient bristle-carrying member secured to said head portion and assuming the concave disposition of said side portions and manually operable means rotatably borne by said handle for changing said member from its concave position to a convex position.

1,688,582. REEL. WALTER A. HEINRICH, St. Louis, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 25, 1926. Serial No. 83,529. 4 Claims. (Cl. 242—111.)

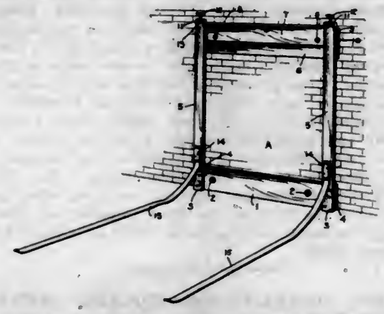


1. A collapsible reel comprising a plate, movable and angularly collapsible fingers thereon, a shaft adapted to be locked for movement with the plate and to be rotatably arranged therewith, a pinion on said shaft and toothed adjusting bars adapted to engage said pinion and said fingers whereby relative movement between the shaft and the plate causes relative movement between said fingers and the plate and means for linking said bars and fingers, whereby the latter may be angularly collapsed with respect to said plate without changing the planes of said bars.

1,688,583. GYMNASIUM-MAT RACK. ARCHIBALD B. HORNE, Springfield, Mass. Filed May 25, 1926. Serial No. 111,492. 4 Claims. (Cl. 211—87.)

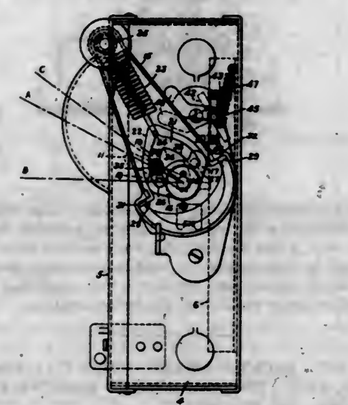
1. A device of the class described comprising a swinging frame adapted to be attached to a wall or the like and to

be swung from a vertical to a horizontal position, means for holding the frame in its vertical position against the wall, and flexible straps connected with the frame adjacent the



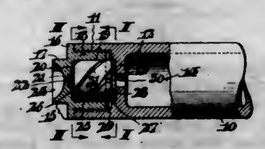
bottom thereof and adapted to cooperate with the frame to hold a mat against the frame, and means for fastening the flexible straps to the frame in mat-holding position.

1,688,584. CIRCUIT-BREAKER APPARATUS. OLIVER S. JENNINGS, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 6, 1927. Serial No. 211,035. 4 Claims. (Cl. 200—50.)



1. The combination with a switch having means for actuating it to open position with a snap action after the operating mechanism has moved to a predetermined position, of a control switch retained in one of its positions by the operating mechanism and adapted to be moved to another position to cause actuation of a cutout device, in advance of the movement of the operating mechanism to the said predetermined position.

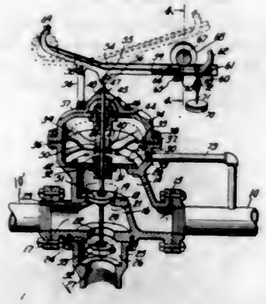
1,688,585. ATOMIZER. JAMES D. LALOR, Baltimore, Md., assignor to The Lalor Fuel Oil System Company, Inc., Baltimore, Md., a Corporation of Maryland. Filed June 13, 1925. Serial No. 36,861. 1 Claim. (Cl. 299—120.)



An atomizer comprising a tubular fluid conducting body; a cavity set apart in the end of the body by a transverse diaphragm centrally-apertured for communication to the

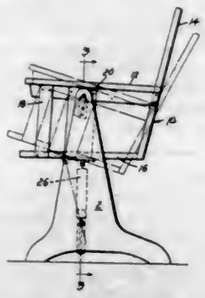
bore of said body and counterbored to seat a centrally apertured compressible gasket; a tip characterized by an axial bore with different co-axial counter-recessions at the forward end, the smaller of which tapers into a restricted discharge orifice leading therefrom, while the inner end of said tip terminates short of the diaphragm to provide a clearance; a core piece snugly fitting the bore of said tip and held stationary by the gasket aforesaid, to thereby form an annular distributing chamber, and in conjunction with the counter-recesses aforesaid a reducing chamber; said core piece having radial grooves in its rear end providing passages from the central aperture of the diaphragm to the distributing chamber, and spiral channels in its cylindrical surface that connect the distributing chamber with the reducing chamber for gyration of the fluid in the latter chamber for expulsion through the restricted discharge orifice as a finely-divided divergent spray.

1,688,586. APPARATUS FOR SUPPLYING ARTIFICIAL PRESSURE TO OIL SAND. JAMES O. LEWIS and HOMER R. PIERCE, Tulsa, Okla. Filed Dec. 29, 1927. Serial No. 243,312. 9 Claims. (Cl. 166—1.)



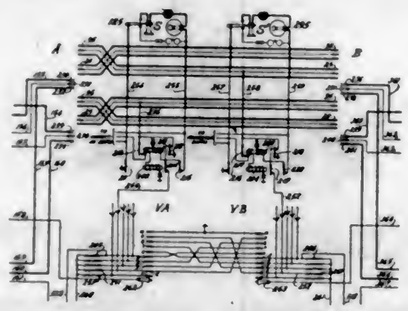
1. In combination with a compressor, a line leading from the compressor for conducting fluid pressure medium to an air well, a line for returning fluid medium from a producing well to the compressor, and means controlled by pressure in the return line for selectively admitting air or returned pressure medium to the compressor.

1,688,587. ROCKING-CHAIR. FRANS J. LILJEDAHL, Oakland, Calif. Filed July 8, 1926. Serial No. 121,095. 2 Claims. (Cl. 155—58.)



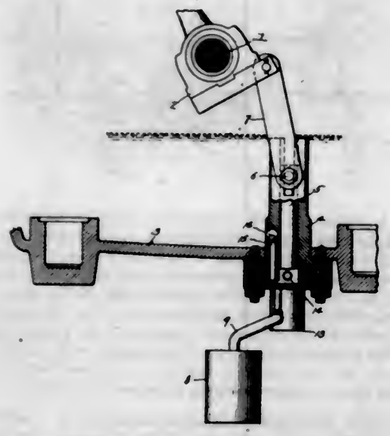
1. A swinging chair comprising a seat portion and arm portions, a pedestal pivotally supporting said swinging chair at the arm portions thereof, and resilient means connected at one end to said pedestal and at its opposite end to said seat portion, said latter connection being in vertical alignment with the first named connection and the pivotal axis between the pedestal and arm portions when the chair is in normal position.

1,688,588. AUTOMATIC TELEPHONE SYSTEM. CLARENCE E. LOMAX, Oak Park, and NORMAN H. SAUNDERS, Homewood, Ill., assignors to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed July 2, 1927. Serial No. 203,059. 8 Claims. (Cl. 179—18.)



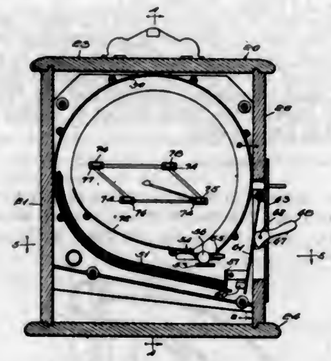
1. In an automatic telephone system, a group of subscribers' lines divided into a plurality of subgroups, a start wire for each subgroup, a resistance for each start wire, a relay common to said group of lines, two groups of finders having access to said lines, means including a distributor for each group for preselecting an idle finder in each group, an auxiliary start relay in each distributor, means responsive to the initiation of a call on one of said lines for energizing said common relay over a circuit including the start wire and resistance individual to the subgroup containing said line, means controlled by said common relay for energizing the auxiliary start relay of the first of said distributors if that distributor has preselected an idle finder and for energizing the auxiliary start relay of the other distributor if all the finders of the first group are busy, and means responsive to the energization of an auxiliary start relay for starting a preselected finder to find said calling line.

1,688,589. REFRIGERATING MACHINE. IVAR LUNDGAARD, Hartford, Conn., assignor, by mesne assignments, to Devon Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 7, 1924. Serial No. 691,165. 10 Claims. (Cl. 230—203.)



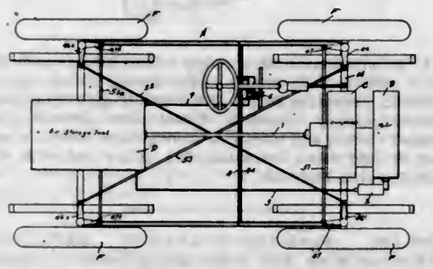
1. In a machine of the class described comprising a crank, a crank-case and a connecting rod connected to said crank, the combination with the crank-case of an auxiliary air pump adapted to receive atmospheric air and having an outlet port leading into the crank-case.

1,688,590. GAME OF SKILL. FRANK W. MILLS, Chicago, Ill. Filed Nov. 6, 1926. Serial No. 146,676. 9 Claims. (Cl. 273—138.)



1. In a device of the kind described, a track disposed in a plane inclined to the horizontal, means for propelling a ball along the track, and a plurality of trip devices engageable by the ball when it falls from the track, said trip devices being actuated by the ball when engaged thereby.

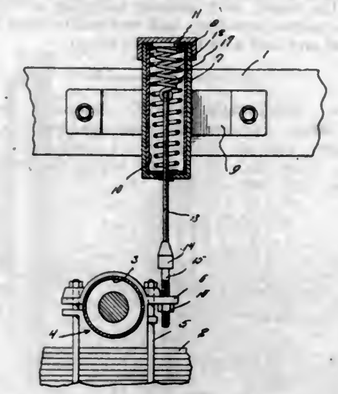
1,688,591. STEERING, PROPELLING, AND BRAKING MECHANISM FOR VEHICLES. ROBERT E. MITTON, Salt Lake City, Utah. Filed Feb. 17, 1926. Serial No. 88,974. 2 Claims. (Cl. 180—66.)



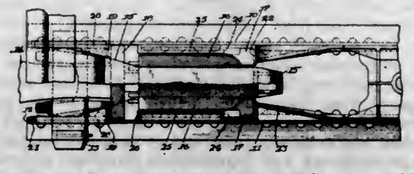
1. A vehicle control comprising a chassis; an air compressor carried on said chassis; an air tank mounted adjacent said compressor; means to operate said compressor for storing air in said tank; traction wheels on which said chassis is mounted, each of said wheels consisting of radially disposed cylinders; pistons operable in said cylinders; a piston rod connected with each of said pistons by ball and socket connections; an air conduit through each ball and socket in open connection with the piston rod contiguous; stub axles on which said traction wheels are journalled; an eccentric cam integral with each of said axles, having a slot cut in the perimeter of said cam and in open connection with the interior with one of said piston rods; pipes to connect the said cylinders with said air tank; and means to direct the passage of air through said cylinders.

1,688,592. AUTOMOBILE SNUBBER. LEONARD WILMOT MONTGOMERY, Amarillo, Tex. Filed Sept. 22, 1927. Serial No. 221,319. 1 Claim. (Cl. 267—8.)

As a new product of manufacture, a snubber comprising an attaching bracket adapted to be rigidly mounted upon a frame bar, a vertically disposed cylinder carried by said bracket, a disk slidable in said cylinder, a spring arranged in said cylinder, and bearing at one end against the bottom of the cylinder and at its opposite end against the under side of the disk, a relatively small coiled spring connected to the disk and disposed within the first-named spring, a cable connected to said small spring and extending downwardly through an opening in the bottom of the cylinder, a bolt carried by the lower end of said cable, and an axle and spring clamp with which said bolt is adjustably connected.

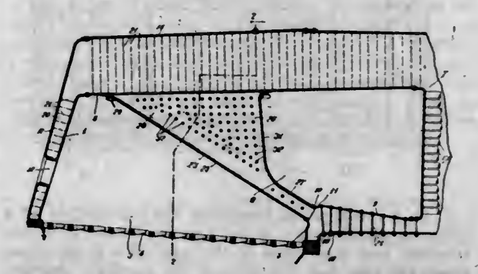


1,688,593. DRAFT RIGGING FOR RAILWAY CARS. CHARLES J. NASH, Chicago, Ill., assignor to Universal Draft Gear Attachment Co., a Corporation of Illinois. Filed Aug. 24, 1926. Serial No. 131,218. 1 Claim. (Cl. 213—56.)



A draft rigging for railway cars comprising, in combination a draft gear casing having follower shoulders, and a pair of buffing lugs cooperating with such shoulders and having forward extensions for guiding the casing, the forward end of such extensions forming stop shoulders for engaging a follower, said stop shoulders being positioned in advance of the end of the gear casing, so that the follower cannot engage the casing on buff until after it has engaged the stop shoulders.

1,688,594. LOCOMOTIVE BOILER. JOHN L. NICHOLSON, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed July 14, 1924. Serial No. 725,784. 4 Claims. (Cl. 122—68.)



1. A locomotive firebox, in combination with one or more hollow substantially vertical and triangular water circulating elements therein, the top of each element opening

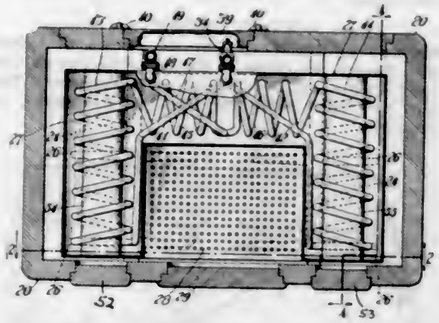
through the crown sheet into the space above the same, each element having an intake throat at its lower end through which communication is established with the bottom of the boiler, said element including a front wall which is inclined upwardly and rearwardly from the connection of said wall with the intake throat.

1,688,595. ICE-CREAM SCOOP. GEORGE T. PARR, St. Paul, Minn., assignor, by mesne assignments, to Pi-Alamoder, Inc., St. Louis, Mo., a Corporation of Missouri. Filed May 24, 1922. Serial No. 563,235. 2 Claims. (Cl. 107—48.)



2. An ice cream scoop comprising a handle member, a pair of parallel sector shaped plates secured thereto, an ejector positioned between said parallel plates and adapted to move from the arcuate portion thereof to the point thereof, parallel serrations formed in said plate and extending longitudinally from said arcuate portion toward the point thereof and corresponding serrations formed in said ejector engaging said plate serrations for guiding said ejector in its outermost positions.

1,688,596. REFRIGERATING APPARATUS. DAVID POWELL, Chicago, Ill. Filed Aug. 29, 1925. Serial No. 53,244. 6 Claims. (Cl. 62—95.)

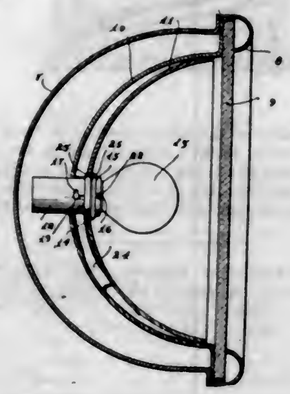


4. In a refrigerating apparatus, the combination of a chamber, a brine tank in the upper end portion of the chamber, said tank being in the form of a U extending about the rear and the sides of the chamber, compartments formed in the legs of said U tank and open at the front of the chamber, and means for cooling the brine in said tank.

1,688,597. METHOD OF PROTECTION AGAINST ATTACK BY MITES OR INSECTS. WILLIS EUGENE RAGAN, Atlanta, Ga. Filed Apr. 4, 1925. Serial No. 20,859. 4 Claims. (Cl. 167—6.)

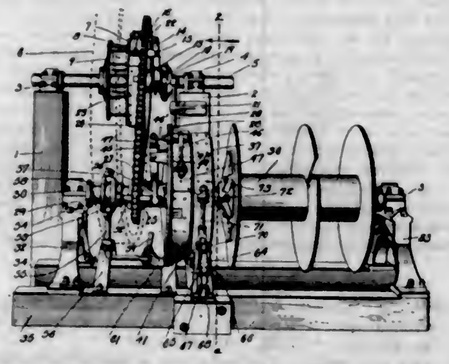
3. The method of treating a fabric to render it obnoxious to mites and insects, consisting in powdering the fabric with sulphur, subjecting the powdered fabric to sufficient heat to convert the sulphur to a thin liquid to thereby allow the liquid to permeate the pores of the fabric, and thereafter allowing the fabric to cool to thereby convert the liquid to a fine powder.

1,688,598. MEANS FOR ATTACHING LIGHT BULBS TO REFLECTORS. DANIEL E. RILEY, Detroit, Mich. Filed May 24, 1926. Serial No. 111,216. 3 Claims. (Cl. 240—41.)



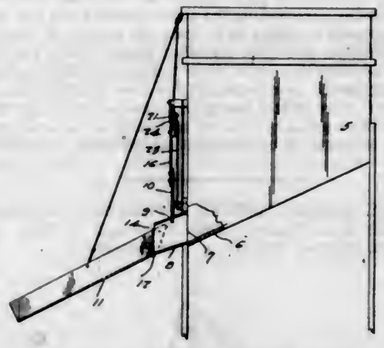
1. An attachment for securing a light bulb permanently on a reflector comprising a collar having at one end an inwardly projecting flange, said inwardly projecting flange having radially extending diametrically opposite slots formed therein and axially extending slots formed in said end of said collar communicating at its end with said radially extending slots.

1,688,599. SAND-REEL-OPERATING MECHANISM. RICHARD WARD SAGE and HARRY RAYMOND BOUGHNER, Augusta, Kans. Filed July 17, 1922. Serial No. 575,464. 1 Claim. (Cl. 254—187.)



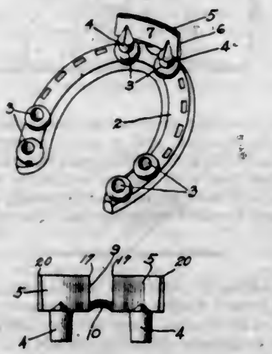
In a hoisting mechanism, a drive shaft and a driven shaft, a sprocket on the drive shaft having slip connection therewith, a sprocket on the driven shaft, a driving connection between the sprockets, a disk fixed to the last named sprocket having a clutch face, a clutch band carried by the disk and adapted for operative connection with the clutch face, a collar slidable on the driven shafts, pins extending laterally from the collar and slidably through openings in the last named sprocket to rotatably key the sprocket to the collar, a lever carried by the disk and operatively connected with said clutch band, a connection between the pins and the actuating lever, means for slidably actuating the collar to shift said lever, brake mechanism including a clutch member on the driven shaft, a brake band cooperating with said member, and actuating means for the brake band in operative connection with the collar actuating means to effect simultaneous opposite movement of the brake band and clutch band on the driven shaft members.

1,688,600. UNLOADING CHUTE FOR GRAIN TANKS. VIRGIL T. SLIVER, Nickerson, Kans. Filed Aug. 24, 1927. Serial No. 215,215. 4 Claims. (Cl. 193—21.)



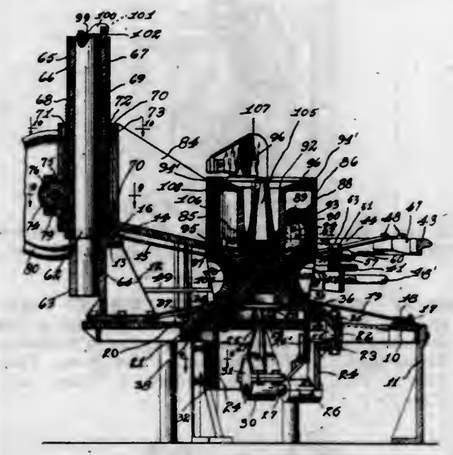
1. In combination, a tank, a spout leading from the tank, a hinged chute mounted on the spout, a gate valve slidable through an opening in the spout, a cable attached to the hinged chute, a pulley on the top of the tank over which the cable is trained, a lever pivoted on the tank and having the other end of the cable attached thereto and a rod extending rigidly from the valve and pivotally engaged with the lever.

1,688,601. HORSESHOE. ARTHUR R. SWANSTROM, Duluth, Minn. Filed Dec. 20, 1923, Serial No. 681,857. Renewed Jan. 30, 1928. 15 Claims. (Cl. 168—41.)



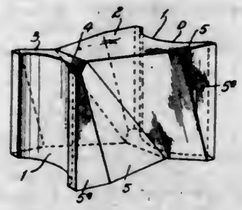
11. A calk having studs connected by a blade, said blade having a weakened area formed by slotting in two directions to substantially decrease the cross-section of the connecting portion.

1,688,602. PERMANENT MOLD. JAMES T. WARNER, Detroit, Mich., assignor to Whitehead and Knles Company Incorporated, River Rouge, Mich., a Corporation of Michigan. Filed June 13, 1927. Serial No. 198,469. 26 Claims. (Cl. 22—128.)



5. In a permanent mold, the combination with a table, of members mounted upon said table forming the bottom and side walls of the mold, a pillar vertically mounted upon said table, a supporting member reciprocably and swingingly mounted upon said pillar having a segemental tubular guide portion, and a cope forming portion comprising a plurality of quadrants universally mounted within said guide portion.

1,688,603. WALL OR BAFFLE TILE FOR WATER-TUBE BOILERS. CLARENCE W. WEHMEYER, St. Louis, Mo., assignor to Heine Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 10, 1926. Serial No. 101,126. 5 Claims. (Cl. 110—98.)

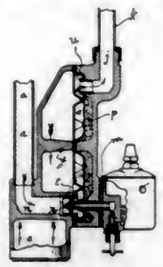


1. A wall or baffle tile for water tube boilers provided at one of its lateral sides with a concaved surface that is adapted to receive a tube or nipple and provided at its other lateral side with a flat, inclined surface that is adapted to be engaged by a similar surface on a reversely arranged tile whose concaved surface receives an adjacent tube or nipple, the width of said inclined surface being less than the width of said concaved surface so as to facilitate turning or rotation of said tile after it has been disengaged from the tile with which it co-operates.

1,688,604. EXHAUST-HEATED OIL VAPORIZER. GEORGE R. WELCH, Detroit, Mich., assignor to George M. Holley, Detroit, Mich. Filed Feb. 15, 1924. Serial No. 693,087. 2 Claims. (Cl. 261—13.)

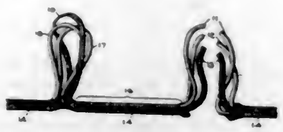
1. In a vaporizer for an internal combustion engine, an exhaust pipe having an opening therein, a cover for closing said opening, two thin sheet metal plates adapted to

be bolted between said cover and said exhaust pipe closing said opening, and spaced apart from each other and from



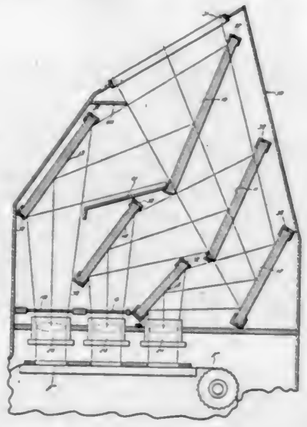
said cover, the space between said plates being provided with an entrance and an exit and a passage therebetween.

1,688,605. ELECTRICAL AND INSTRUMENT CORD. JOHN D. WILLIAMS, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 14, 1927. Serial No. 167,898. 9 Claims. (Cl. 173—264.)



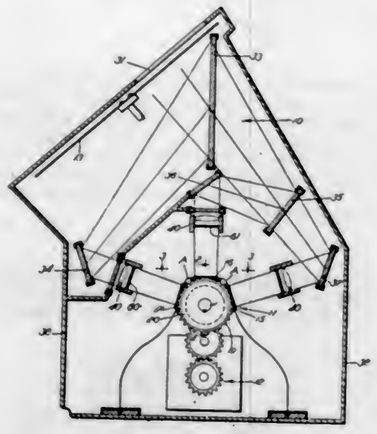
8. The method of manufacturing electrical cords which consists in assembling electric conductors and a stay cord in substantially parallel relation, applying an outer braided covering to said conductors, pulling the conductors and stay cord through the covering at predetermined points to expose the conductors and stay cord in the form of loops to produce a multi-unit cord, cutting the multi-unit braided cord at the points where the loops of the conductors and stay cord are exposed, and wrapping the exposed ends of the braided covering.

1,688,606. OPTICAL SYSTEM. WALTER L. WRIGHT, Santa Monica, and STANTON M. WRIGHT, Los Angeles, Calif. Filed June 1, 1926. Serial No. 112,968. 1 Claim. (Cl. 88—1.)



In a motion picture camera for taking simultaneously three like equal size pictures of a subject in spaced relation on a strip of film held in a single plane including three primary reflectors angularly disposed and in spaced relation one behind the other in the path of light from the subject, the first two primary reflectors being transparent bodies with polished surfaces so that they reflect off some light and pass the rest, the three primary reflectors being different in size the first being largest and the last the smallest, three secondary reflectors each angularly disposed in the path of light reflected by the primary reflectors, the three secondary reflectors being of different size the one receiving light from the first primary reflector being the largest and the one receiving light from the last primary reflector being the smallest, and the three secondary reflectors being spaced different distances from their reflective primary reflectors the space between the first primary reflector and the secondary reflector receiving light from it being the greatest and the space between the last primary reflector and the secondary reflector receiving light from it being the smallest, three lenses each arranged in the path of light from a secondary reflector to direct the shaft of light onto the film, means whereby the shafts of light directed onto the film by the lenses are different chromatically, a casing surrounding the above named parts and having an opening to admit light from the subject to the primary reflectors, and light shielding means within the casing and in connection with the reflectors including a shield extending from a point adjacent the first primary reflector in the direction of the secondary reflector receiving light from the first primary reflector and back of the secondary reflector receiving light from the second primary reflector.

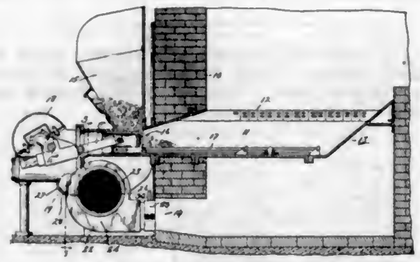
1,688,607. MOTION-PICTURE APPARATUS. WALTER L. WRIGHT, Santa Monica, Calif. Filed Sept. 15, 1926. Serial No. 135,524. 10 Claims. (Cl. 88—16.4.)



1. A film handling mechanism comprising a revoluble film actuating member, and a series of sequentially arranged film gates tangentially disposed relative to said actuating member and each having a picture aperture, the gates being positioned around the actuating member with the actuating member engaging the film at the picture apertures.

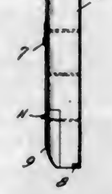
1,688,608. STOKER. ROYCE L. BEERS, Detroit, Mich., assignor to Detroit Stoker Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 31, 1927. Serial No. 164,935. 6 Claims. (Cl. 110—101.)

1. The combination with a wall of a stoker, of a fuel feeding mechanism projecting from said wall at a point spaced from the lower edge thereof, a motor arranged adjacent said wall below said fuel feeding mechanism with the shaft thereof parallel with said wall, a blower fan having a conduit connected to said wall and located to one side of said motor below said fuel feeding mechanism and having a



driving connection with the shaft thereof, and means drivingly connecting the other end of said motor shaft with said fuel feeding mechanism.

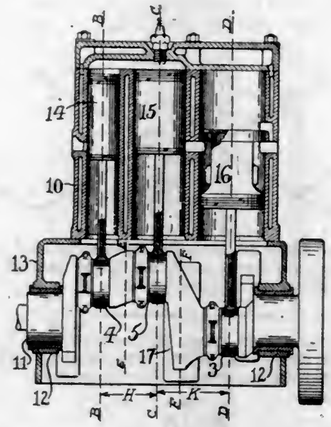
1,688,609. DISPENSING DEVICE. CHARLES W. BOLES, Amarillo, Tex. Filed Oct. 11, 1926. Serial No. 140,886. 1 Claim. (Cl. 312—42.)



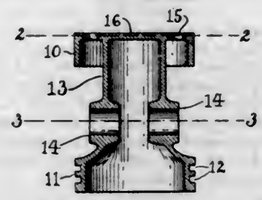
In a dispensing device for containers, an elongated tube having an opening in the side thereof immediately adjacent the lower end thereof, said end of the tube being formed with an inwardly projecting stop flange opposite said opening so that a container within the tube may rest thereon, a pair of wings, means for pivoting the wings to the side edges of the opening so that the free edges of the wings will be in spaced relation to each other, and a coil spring connected to the wings to span the distance therebetween and normally hold the wings in a closed position over the opening.

1,688,610. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor, by direct and mesne assignments, to The Automotive Valves Corporation, Reno, Nev., a Corporation. Filed Mar. 24, 1926. Serial No. 96,968. 2 Claims. (Cl. 123—70.)

1. In an internal combustion engine, a rotary and reciprocative inertia forced balanced unit comprising six cylinders arranged in two rows of V-formation, three cylinders in each row, the three cylinders having chambers of different diameters, the head ends of the two smaller chambers in each row being connected to form a dual combustion chamber, pistons arranged for operation within the six cylinders, a crankshaft having three separate throws, the pistons in the corresponding cylinders of the two rows being separately connected to the three crank throws, the three crank throws of the crankshaft occupying different radial positions, said three crank throws being arranged on one side of the axis of the crankshaft and a counterbalancing weight carried by the crankshaft and disposed on the opposite side of the axis thereof from said three crank throws.



1,688,611. PISTON FOR CHARGE-PUMPING CYLINDERS. EVERETT R. BURTNETT, Los Angeles, Calif., assignor, by direct and mesne assignments, to The Automotive Valves Corporation, Reno, Nev., a Corporation. Filed Mar. 25, 1926. Serial No. 97,372. 4 Claims. (Cl. 230—202.)

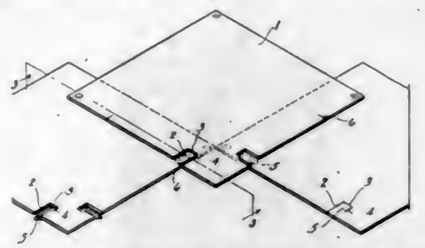


1. In a piston a cylindrical central body, a head formed at one end of the said central cylindrical body, said head extending radially beyond the said central cylindrical body, a cylindrical extension formed around said head, there being apertures formed through the said head in an annular row between the circular line of the outer periphery of the central cylindrical body and the circular line of the inner side of the said cylindrical extension formed about said head, the end of said central cylindrical body opposite the end to which the head is formed extending radially outward, a crank end cylindrical skirt depending therefrom, there being packing ring grooves formed in the outer side of said crank end cylindrical skirt and wrist pin bosses formed in the body of the central cylindrical form.

1,688,612. COMPOSITION SHINGLE. OSCAR BLAINE CLOW, Tacoma, Wash. Filed Apr. 26, 1927. Serial No. 186,733. 1 Claim. (Cl. 108—7.)

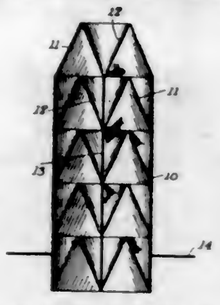
A roofing formed from a plurality of square shingles laid diagonally in horizontal, overlapped courses, each of said shingles being provided in the adjacent side edges thereof which bound its lower corner with slits that extend inwardly at right angles to the edges, then turn downwardly

parallel with the side edges, then outwardly perpendicular to but terminating within the edges and providing attached



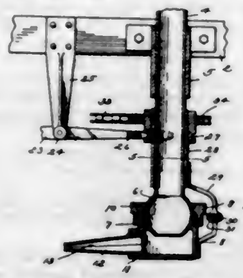
anchor tabs, which are projected beneath the side edges of the shingles in a lower course which are received within the slits whereby the tabs are defined.

1,688,613. AIR AND FUEL MIXING DEVICE. HENRY M. COGAN, Charleston, W. Va. Filed Feb. 12, 1927. Serial No. 167,704. 3 Claims. (Cl. 48—180.)



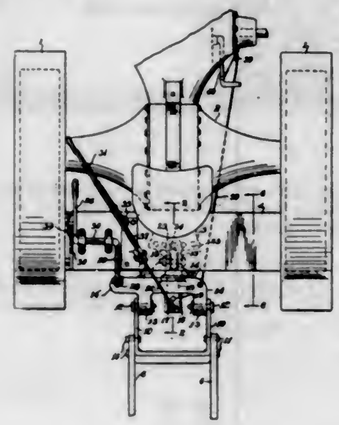
2. A gaseous fuel mixing device for internal combustion engines adapted to be mounted in the fuel intake pipe between the carbureter and the manifold and comprising in combination a foraminous truncated cone, a foraminous cone mounted within the truncated cone, the base of the cone being connected contiguous the smaller end of the truncated cone, the apex of the cone being adjacent the base of the truncated cone and substantially centrally located thereof, a foraminous tube connected to the base of the truncated cone and surrounding the same, said tube being provided with means for securing it within a fuel intake pipe.

1,688,614. ADJUSTABLE FLUSHING NOZZLE. JOHN W. COTTINGHAM, Columbus, Ohio, assignor of one-third to G. F. McDonald and one-third to J. J. McDowell, Columbus, Ohio. Filed Sept. 29, 1925. Serial No. 59,428. 3 Claims. Cl. 299—36.)



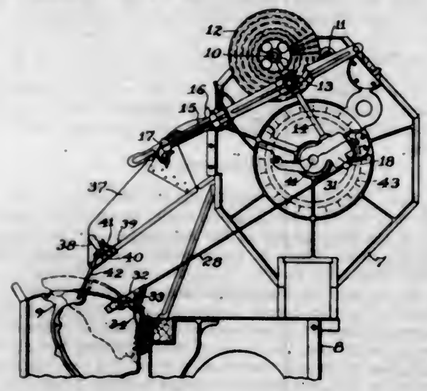
3. In water distributing means, a discharge pipe having the discharge end of globular form, a nozzle including a socket adapted for the reception of the globular end of said pipe, a sleeve slidably and rotatably mounted on said pipe, link connections between said sleeve and said nozzle, means disposed remotely with respect to said nozzle for rotating said sleeve and means operated by said first named means for raising and lowering said sleeve relative to said pipe.

1,688,615. LEVELING DEVICE FOR PLOWS. EARLE H. DANIEL, Springfield, Ohio, assignor to Robert W. Johnston, Columbus, Ohio. Filed Oct. 9, 1926. Serial No. 140,638. 6 Claims. (Cl. 97—47.)



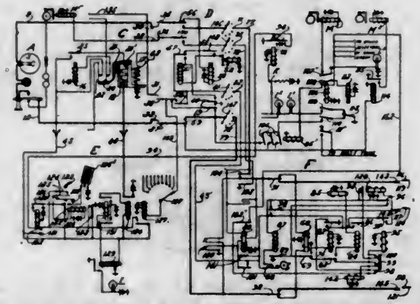
1. In a structure of the character described, the combination, with an implement beam and a tractor and a draw-bar arranged at the rear thereof, of a leveling bracket pivotally connected with the beam by transversely arranged pivots, a coupling pin universally connected with said draw-bar, said beveling bracket being swivelly mounted upon said coupling pin, and an operating device mounted on the tractor and connected with one side of said leveling bracket.

1,688,616. CONTROL MECHANISM FOR COTTON-GIN FEEDERS. THOMAS ELLIOTT, Birmingham, Ala., assignor to Continental Gin Company, a Corporation of Delaware. Filed Nov. 20, 1926. Serial No. 149,769. 4 Claims. (Cl. 19—69.)



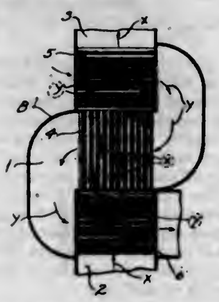
1. The combination with means for feeding cotton to a gin breast, of means automatically responsive to the raising of the gin breast to intercept the delivery of cotton into the gin.

1,688,617. MEASURED-SERVICE TELEPHONE SYSTEM. RALPH W. ENGSBERG, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 18, 1925. Serial No. 24,034. 7 Claims. (Cl. 179—9.)



1. In a telephone system, a calling line, a meter for said line, selector switches, primary and secondary trunking switches responsive to the initiation of a call to extend a connection to an idle one of said selector switches, other switches, means for operating a seized selector and said other switches to complete a connection, a plurality of relays, there being one in each selector switch operated when the selector is seized, means common to said selector switches responsive to the joint operation of all said relays to prevent the operation of idle secondary trunking switches, and means common to said trunking switches for causing the operation of the said meter upon completion of a connection.

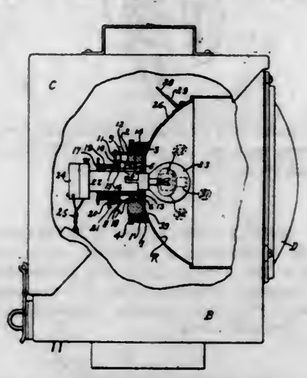
1,688,618. AIR HEATER. HENRY F. GAUSS, Moscow, Idaho, assignor to Heine Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 14, 1926. Serial No. 81,335. 3 Claims. (Cl. 257—166.)



2. A device for heating one gaseous medium by another gaseous medium of a higher temperature, comprising a casing provided with an intake portion and a discharge portion, a bank of tubes which joins said portions together, other banks of tubes arranged transversely of said intake and discharge portions and disposed at substantially right angles to the tubes that join said portions together, and a passageway in the casing that establishes communication between the tubes in said intake and discharge portions and which encloses the tubes that join said intake and discharge portions together.

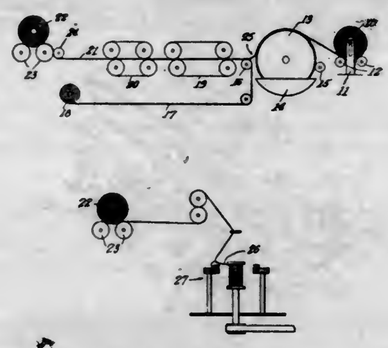
1,688,619. FOCUSING DEVICE. ALEXANDER H. HANDLAN, St. Louis, Mo. Filed July 3, 1924. Serial No. 723,884. 2 Claims. (Cl. 240—44.)

2. A focusing device for an electric lantern having an electric lamp therein, comprising a movable support for said electric lamp and targets associated with said lantern against which rays of light from said electric lamp are thrown, said targets being located at an angle to each other and being located on different imaginary radial lines extended from said electric lamp, so that proper focalization of said lamp will be determined by the location of the rays of light on said targets, and said targets being so



located that the faces thereof against which the rays of light are thrown may be simultaneously viewed from a fixed position, and means adapted to compel the arrangement of said lamp within said lantern in a predetermined position, said means comprising interengaging parts located one on said lamp support and one on an element carried by said lamp support.

1,688,620. APPARATUS FOR THE MANUFACTURE OF YARN. JOHN ALLEN HEANY, New Haven, Conn., assignor to World Bestos Corporation, Paterson, N. J., a Corporation of Delaware. Filed Apr. 23, 1926. Serial No. 104,056. 24 Claims. (Cl. 117—3.)

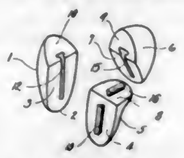


1. In apparatus adapted for the manufacture of yarn from paper-like strips or bands of asbestos material bound with sufficient cohesiveness and tenacity and adapted for yarn manufacture, the combination with strand forming means, of means for conveying thereto a strip or band substantially free from tension.

1,688,621. ARTIFICIAL TEETH. CLINTON J. HUBER, Seattle, Wash. Filed Apr. 18, 1927. Serial No. 184,677. 2 Claims. (Cl. 32—9.)

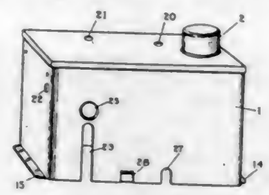
1. An artificial tooth comprising a backing provided with flat surfaces to which the facing and root portions may be fitted, dove-tailed ribs secured to the backing and extending from said surfaces, a facing fitted to its surface and having a beveled base and a dove-tailed groove in

its inner surface opening to the beveled end to receive the rib in an interlocking connection, and a root portion fitted to its surface and having a beveled end fitted to the beveled



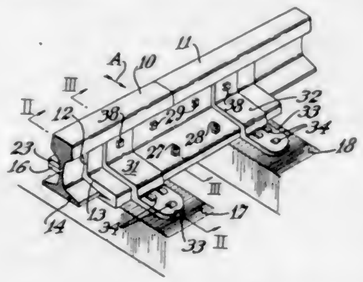
end of the facing in a close joint and provided with a dovetailed groove opening to its beveled end to receive its attaching rib in an interlocking connection.

1,688,622. SHIELD FOR RADIO AMPLIFIERS OR DETECTORS. MERRIAM E. JOHNSON, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed July 8, 1926. Serial No. 121,144. 3 Claims. (Cl. 250—16.)
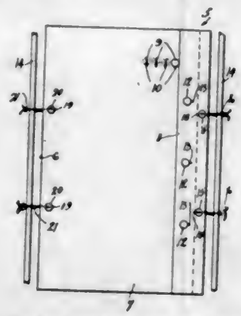


1. A shield for a vacuum tube and its associated apparatus, comprising a metal can for covering said vacuum tube and associated apparatus, a removable cap for said can, and a vibration insulating lining for said can.

1,688,623. JOINT CLAMP. SLOAN A. JONES, Springville, Ala. Filed Feb. 6, 1928. Serial No. 252,210. 1 Claim. (Cl. 238—195.)



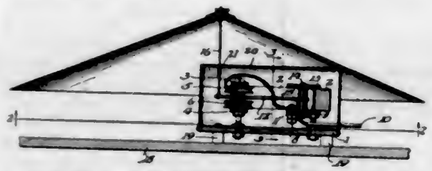
In a joint clamp for railroad rails resting on spaced cross-ties, an angle bar for the outside of the joint and having a flange bent under the joint to form a base plate extending from tie to tie and entirely across beneath the rail and beyond the opposite side thereof, an angle bar for the inside of the rail and having a flange with a base portion resting on the extended base plate portion of the opposite angle iron, U bolts extending across beneath the rails on opposite sides of the joint and connecting the flanges of the angle bars together, a rail anchor conforming in shape to the angle bar for the outside of the joint and bearing thereagainst from base to top thereof, said anchor having a horizontally extending portion provided with holes for spiking to the tie, and securing bolts extending through the two angle bars, the rail and the rail anchor.

1,688,624. BABY BLANKET. WILLIAM KANTER, Brooklyn, N. Y. Filed Feb. 29, 1928. Serial No. 257,813. 1 Claim. (Cl. 5—334.)



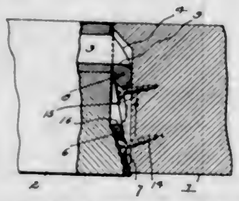
A foldable blanket adapted for use in a bed and provided with a series of button holes near one lateral edge thereof, buttons near the opposite edge for buttoning these edges when the blanket is folded, buttons engaging button holes near the upper and one folded edge of the blanket to partially and adjustably close same at this point, and buttons provided with strings passing through button holes near the side edges of the folded blanket, for securing the blanket to the bed.

1,688,625. LOUD-SPEAKER UNIT. MARZO ALLEN KENNEDY, Chicago, Ill., assignor to Edmund A. Russell, Chicago, Ill. Filed Mar. 26, 1928. Serial No. 264,938. 4 Claims. (Cl. 179—114.)



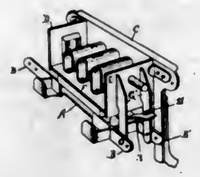
1. In a loud speaker unit, the combination of a non-magnetic base, a horseshoe magnet supported thereon, soft iron plates secured to opposite poles and opposite sides of said horseshoe magnet the unattached ends of which overlap, electromagnets mounted on adjacent sides of the overlapping ends of said plates, the relation being such that the adjacent ends of the cores of said electro-magnet will be spaced apart, the windings of said electro-magnets being connected in series, and a resilient reed secured at one end to a relatively fixed support, the relation being such that the free end of said reed will extend into the space between the adjacent ends of the cores of the electro-magnets, and a vibrator connected to said reed.

1,688,626. ADJUSTABLE STRIKER PLATE FOR DOORS. EUGENE R. KISSINGER and ROY H. KISSINGER, Columbus, Ohio. Filed Mar. 23, 1927. Serial No. 177,706. 3 Claims. (Cl. 292—340.)



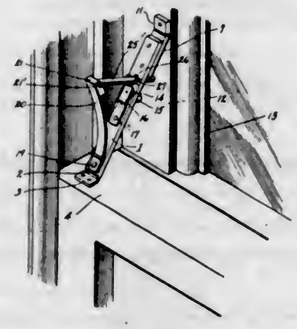
1. As a new article of manufacture, a metallic striker for door locks comprising a main section of wedge like form provided with a longitudinally extending slot, and a separable locking section mounted upon the outer portion of said main section and formed with an opening in registration with said slot, said opening and slot being adapted to receive fastening elements for retaining the striker in an applied position.

1,688,627. ATTACHMENT FOR CONCRETE-BLOCK MACHINES. EDWARD A. LONG, New Castle, Pa. Filed Oct. 14, 1927. Serial No. 226,210. 5 Claims. (Cl. 25—41.)



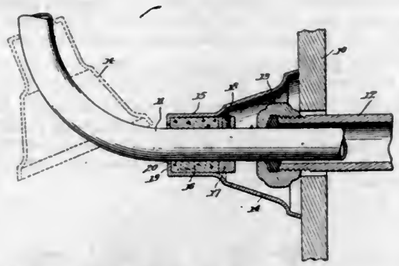
3. In combination with a concrete block forming machine having a block forming enclosure, a flat spring extending under said enclosure and secured in the center to the under side thereof, a pair of sharp pointed pintles secured to said spring and extending upward into said enclosure, and means whereby when the ends of said enclosure are being opened the ends of said spring will bend downward whereby said pintles will be withdrawn from the enclosure.

1,688,628. BURGLAR ALARM. PERCY K. MORROW and ROBERT E. WETMORE, Seattle, Wash. Filed Jan. 9, 1926. Serial No. 80,182. Renewed May 9, 1928. 3 Claims. (Cl. 116—13.)



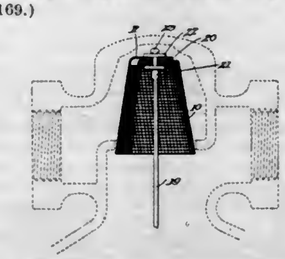
3. The combination with upper and lower sashes of a window of stops fixed to said sashes, a brace bar seated at one end against one of said stops, a trip fixed slidably to the other end of the bar in co-extensive relation thereto and engaging at its outer end with the other of said stops; said bar having an aperture therein for receiving a cartridge, a cartride retaining plate pivotally mounted on the bar movable from and over the base of the cartridge, a firing point in said plate engageable with said base, a leaf spring fixed at one end to the bar, a hammer fixed to the other end of the spring and adapted to strike the retaining plate to fire the cartridge; said hammer having a notch therein, a latch bar pivotally supported in the brace bar with one end adapted to seat in said hammer notch to retain the spring under tension and its other end engageable with the trip plate to normally retain it extended and adapted to be moved by inward movement of the trip plate incidental to opening of either window sash to release the hammer.

1,688,629. NO-SLIP FLANGE. PHILIP MUELLER, Decatur, Ill., and ANTON C. SCHUERMANN, deceased, Decatur, Ill., by Helena Schuermann, executrix, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 17, 1925. Serial No. 63,189. 9 Claims. (Cl. 137—111.)



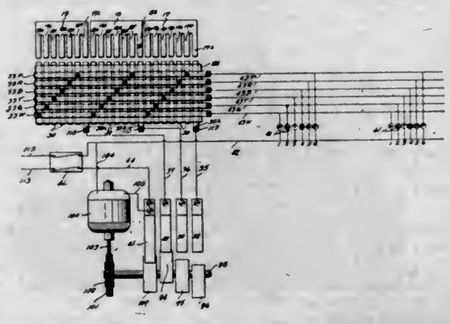
4. In a fitting of the class described, the combination with a pipe, of a hollow escutcheon having a reduced neck, provided with an end flange, a friction ring of cork mounted on said pipe and engaging said flange to provide a non-metallic frictional connection between the pipe and the escutcheon, and independent means on said pipe to positively hold the friction ring in position.

1,688,630. STRAINER SCREEN AND METHOD OF MAKING SAME. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 24, 1925. Serial No. 64,695. 19 Claims. (Cl. 210—169.)



10. A strainer blank of reticulated material having a plurality of integral leaves projecting from its edge.

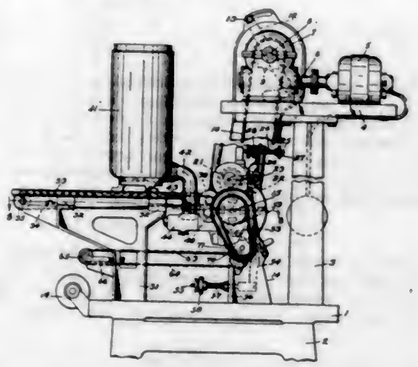
1,688,631. SIGNAL SYSTEM. HARVEY HUBBELL, Bridgeport, Conn.; Louie E. Hubbell executrix of Harvey Hubbell, deceased. Filed Mar. 30, 1925. Serial No. 19,295. 16 Claims. (Cl. 177—337.)



3. A signaling system comprising a plurality of electric circuits, a grouped set of signal lights having different means of identification arranged with a light in each cir-

cuit, a selective device comprising a group of stationary contacts including a contact for each circuit, a plurality of electrically connected, independently movable fingers adapted to engage the stationary contacts, a selective means for moving certain of said fingers into engagement with corresponding stationary contacts, a make and break device electrically connected with said fingers, means for operating the make and break device, and means controlled by the selective device for controlling the said operating means.

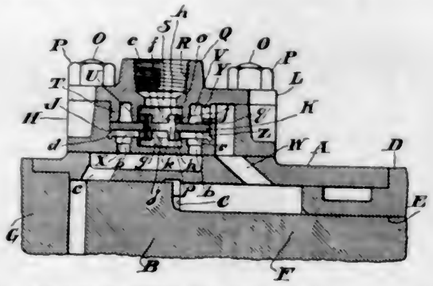
1,688,632. COATING MACHINE. THOMAS BAKER HUESTIS, Bristol, R. I., assignor to National India Rubber Company, Bristol, R. I., a Corporation of Rhode Island. Filed Nov. 6, 1925. Serial No. 67,214. 5 Claims. (Cl. 91—51.)



1. A coating machine comprising a coating roll having small projections thereon, a cooperating yieldingly mounted feed roll, a reservoir for coating material partly surrounding said coating roll and extending upwardly on the discharge side of said roll, means for governing the supply of coating material to the coating roll, and a curved guide forming with the outer wall of the reservoir a passageway for reversing the position of the coated article.

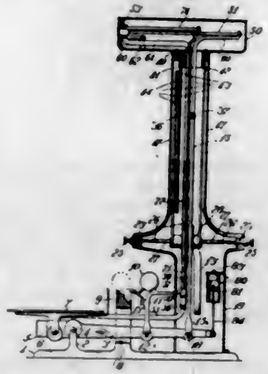
3. A coating machine comprising a coating roll, a cooperating feed roll, a reservoir for the coating material disposed below and partly surrounding the coating roll, said reservoir having curved side walls closely engaging the coating roll adjacent its end, and means for yieldingly maintaining said side walls in engagement with the coating roll.

1,688,633. VALVE FOR ROCK DRILLS. GEORGE W. HULSHIZER, Stewartsville, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 18, 1927. Serial No. 213,814. 3 Claims. (121—19.)



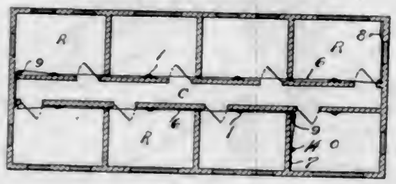
1. In a fluid actuated rock drill, the combination of a cylinder and piston, a valve chest having a valve chamber, inlet passages leading from the ends of the valve chamber to the cylinder, a hollow distributing valve in the valve chamber controlling the inlet passages, guide lugs on the ends of the valve between which pressure fluid passes to the inlet passages and having opposed end areas constantly exposed to pressure fluid, and opposed actuating surfaces on the valve intermittently exposed to compression from the cylinder for actuating the valve.

1,688,634. WEIGHING MECHANISM OR SCALE. GEORGE HUTCHINSON, Sheboygan, Wis., assignor to Hutchinson Scale Company, Sheboygan, Wis, a Corporation of Wisconsin. Filed Sept. 14, 1925. Serial No. 56,374. 45 Claims. (Cl. 265—36.)



1. In a scale having a base, the combination of a load counterbalancing element, a beam, means for transmitting motion from the beam to the load counterbalancing element, said means comprising a thrust member articulating with the beam and means for keeping such thrust member at a constant angle relatively to the scale base.

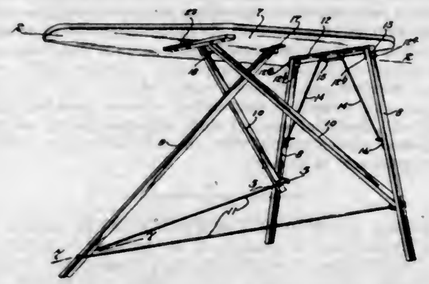
1,688,635. FIRE ALARM. JOHN E. IRBY, Spokane, Wash. Filed July 20, 1925. Serial No. 44,714. Renewed Apr. 28, 1928. 1 Claim. (Cl. 179—5.)



In a fire alarm system, a plurality of electric bells and circuit closing levers for said bells, an inflammable cord having elastic suspending means, and spaced rings carried by said cord and operatively engaging said levers, an audible signal and means actuated by the cord for operating said audible signal, a telephone, and means actuated by said cord for closing the microphone circuit of said telephone to transmit sound from the audible signal.

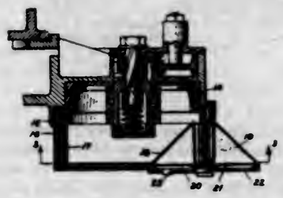
1,688,636. IRONING BOARD. JOHN E. KALGREN, Minneapolis, Minn., assignor to The J. R. Clark Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 17, 1927. Serial No. 220,272. 6 Claims. (Cl. 68—10.)

1. The combination with a board, of rear legs pivoted to the rear end of said board, a third leg pivoted to said board and forwardly inclined in respect to said rear legs, a top brace pivotally connected to said rear legs and arranged to be detachably secured to the bottom of said board at its free end, guide heads pivotally mounted on said rear legs, and a bottom brace pivotally connected to the lower end of said inclined third leg and having arms



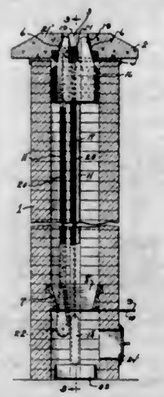
supported by and arranged to slide through said pivoted guide heads and which are put under tension when said top brace is secured to the board.

1,688,637. OPTICAL READING DEVICE. JAMES C. KARNES, Buffalo, N. Y. Filed Sept. 30, 1926. Serial No. 138,758. 4 Claims. (Cl. 88—1.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



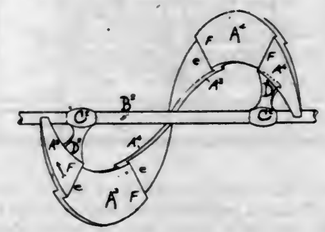
4. A drum having indicia on its inner and outer peripheries, and means for directing an image of the indicia in a plane other than the plane of the periphery of the drum.

1,688,638. CHIMNEY-CLEANING DEVICE. WALTER KOSS, Elyria, Ohio. Filed Aug. 5, 1927. Serial No. 210,922. 2 Claims. (Cl. 15—249.)



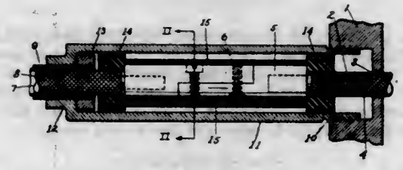
1. In combination with a chimney having downwardly closing doors at the upper end of its flue, said doors closing under the action of gravity, a slide for closing the bottom of the flue, a hollow brush carrying member slidably mounted in the flue, guideways at the sides of the flue, weights in the guideways, cables connecting the weights to the brush carrying member, means on the brush carrying member for holding the doors in open position when the member is in raised position and manually operated means for raising the weights to permit the brush carrying member to move downwardly.

1,688,639. SCREW OR WORM PROPELLER FOR THE PROPULSION OF ALL KINDS OF CRAFT FOR USE IN WATER AND AIR. JOHN K. LARSON, Portland, Oreg. Filed Feb. 14, 1923. Serial No. 619,065. 2 Claims. (Cl. 170—156.)



1. A propeller of the screw or worm type, comprising a supporting shaft, a pitched spiral blade and pitched spokes having less pitch than the blade, the opposite faces of said blade having a plurality of transverse stepped portions of material length and width.

1,688,640. TERMINAL CONNECTING DEVICE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 19, 1921. Serial No. 462,728. 2 Claims. (Cl. 173—268.)

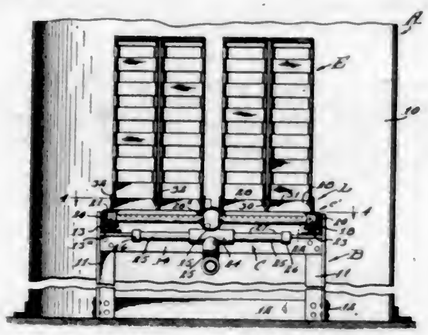


2. In a conduit for electric wires, the combination of a casing, a conductor projecting therefrom, a tubular metallic shield fixed to said casing and surrounding said conductor, an armor-sheathed conductor detachably connected to said first conductor within said shield, the free end of said shield being closed about said second conductor, a ring fixed to the armor-sheathing of said second conductor within said shield and abutting the internal shoulder formed by the closed end of the latter, and insulating annuli surrounding the conductors within the shield and at either end thereof for maintaining the zone of juncture of said conductors in spaced relation to said shield.

1,688,641. GAS BURNER. JOHN MACKENZIE, Minneapolis, Minn., assignor of one-half to Walter Heynacher, Minneapolis, Minn. Filed May 22, 1925. Serial No. 32,126. 10 Claims. (Cl. 126—92.)

1. In a burner, an elongated header member co-planar sets of equally spaced burner members branching off from either side of said header member, each burner having two rows of divergently related orifices extending longitudinally thereof, frames joining the outer ends of each of the opposing sets of burner members, a stand including seats for said frames, skeleton trays removably mounted on each burner members and located in given relation transversely thereof by cooperation therewith, said trays

being formed with seats, radiants removably mounted in the seats of each tray and disposed thereby in respect to the burner members, whereby opposed walls of each radiant are respectively stationed in the line of flames



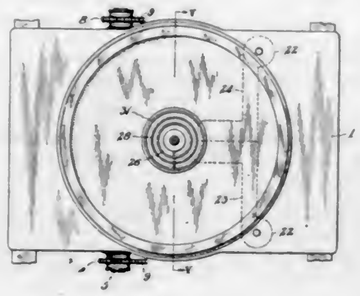
issuing from the divergent orifices of one of the burner members, and keeper members, each common to the radiants in a given tray, each keeper member being adapted releasably to tie together its respective radiants.

1,688,642. ARCH-CONTROLLING DEVICE. NORMAN D. MATTISON, New York, N. Y. Filed Feb. 20, 1925. Serial No. 10,448. 3 Claims. (Cl. 36—71.)



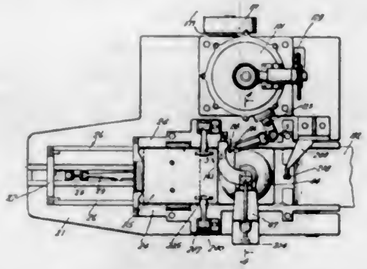
1. A device of the character described comprising an insole member, and a resilient pad carried by said member for location under the outer longitudinal arch of the foot, said pad being constructed and arranged to produce a local sensation of support under said arch but being of insufficient height to cause the foot to roll inwardly.

1,688,643. STEERING MECHANISM FOR CRANES. GARDNER A. MURFEY and ARTHUR S. MEYER, Cleveland Heights, Ohio, assignors to The Browning Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 9, 1925. Serial No. 7,762. 3 Claims. (Cl. 180—9.2.)



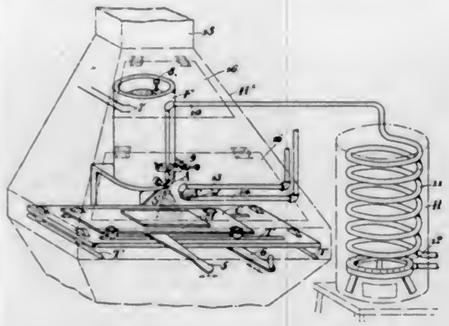
1. In a machine of the character described, the combination of a base member; a rotatable cab mounted upon said member; two oppositely disposed traction members for said base member; mechanism for driving said traction members; and electrically operated mechanism for controlling said driving mechanism so as to operate said traction members simultaneously or independently of each other; said electrical controlling means including a common contact ring for said operating mechanisms of said traction members and independent contact rings for said operating mechanisms, respectively, mounted upon said base member and disposed concentrically with the cab pivot, and respective cooperating brushes mounted upon said cab, including contact rings and cooperating brushes disposed concentrically with the cab pivot, and switch means located in said cab.

1,688,644. COMPOUND LINING CAN ENDS. RONALD E. J. NORDQUIST, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 2, 1927. Serial No. 165,398. 7 Claims. (Cl. 113—80.)



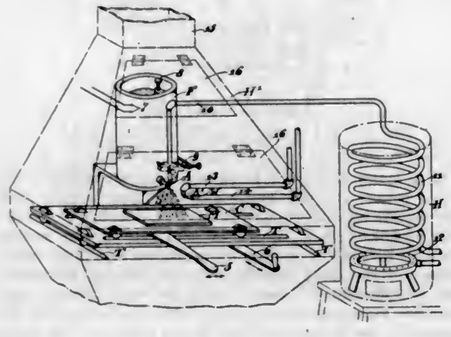
1. In an apparatus for applying lining compound to the flanges of can ends adapted to be interfolded with flanged can bodies to form double seams, the combination of means for rotating the can ends about a predetermined axis, a lining nozzle above said can end and movable towards and from said axis during the lining operation, and means acting during said operation for moving said nozzle in accordance with change of the distance between successive flange portions to be lined and said axis.

1,688,645. PRINTING PLATE AND METHOD OF MAKING THE SAME. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to John Stogdell Stokes, Spring Valley Farms, Huntingdon Valley Post Office, Pa. Filed Feb. 9, 1926. Serial No. 87,111. 16 Claims. (Cl. 41—25.)



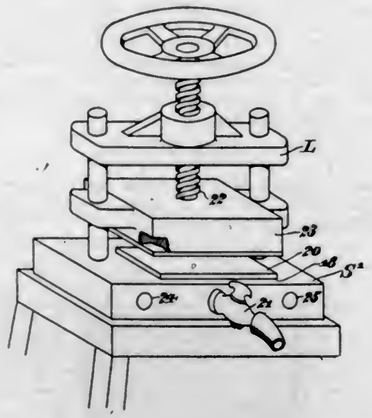
1. A printing plate having a non-homogeneous type-forming face of sprayed metallic particles.

1,688,646. PRINTING-PLATE MATRIX AND METHOD OF MAKING THE SAME. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to John Stogdell Stokes, Spring Valley Farms, Huntingdon Valley Post Office, Pa. Original application filed Feb. 9, 1926, Serial No. 87,111. Divided and this application filed Nov. 19, 1926. Serial No. 149,451. 17 Claims. (Cl. 101—401.1.)



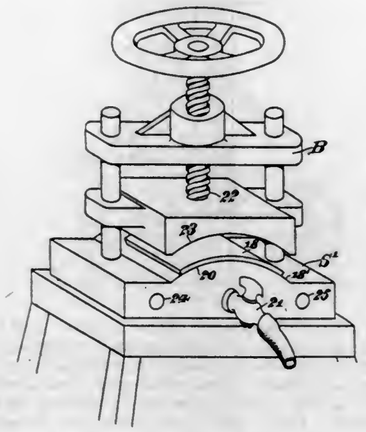
1. A printing plate matrix having a type forming face of smooth non-homogeneous sprayed metallic particles.

1,688,647. PROCESS OF CORRECTING PRINTING PLATES. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to John Stogdell Stokes, Spring Valley Farms, Huntingdon Valley Post Office, Pa. Original application filed Feb. 9, 1926, Serial No. 87,111. Divided and this application filed Nov. 19, 1926, Serial No. 149,452. Renewed Apr. 20, 1928. 3 Claims. (Cl. 101—401.3.)



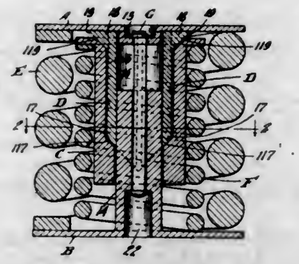
1. The herein described method of leveling a printing plate which consists in providing a printing plate comprising an open, porous sprayed metallic structure having great thermoplasticity when heated below the melting point of the metal and placing said plate on a suitable support, and while thermoplastic applying pressure to cause the face of the printing plate to assume the desired regularities and irregularities and then allowing the printing plate to set by cooling.

1,688,648. PROCESS OF CURVING PRINTING PLATES. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to John Stogdell Stokes, Spring Valley Farms, Huntingdon Valley Post Office, Pa. Original application filed Feb. 9, 1926, Serial No. 87,111. Divided and this application filed Nov. 19, 1926. Serial No. 149,453. 6 Claims. (Cl. 101—401.2.)



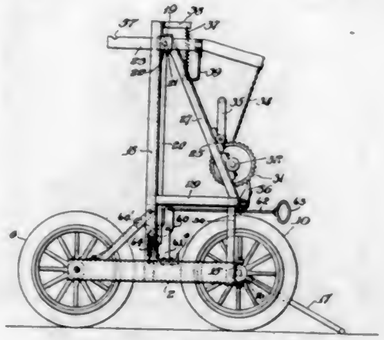
1. The herein described method of producing a curved printing plate which consists in forming a relatively flat plate body of sprayed metallic particles and providing the same with a printing face and then heating such plate below its melting point and curving the heated plate over a suitable form to a predetermined shape.

1,688,649. SHOCK ABSORBER. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 15, 1926. Serial No. 122,538. 5 Claims. (Cl. 267—9.)



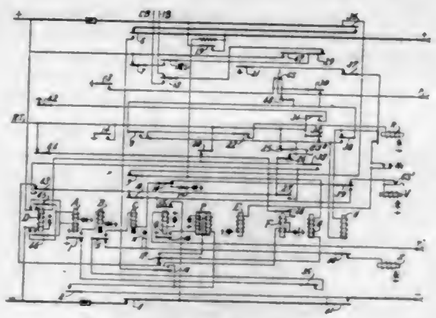
1. In a shock absorber, the combination with follower elements relatively movable toward and away from each other; of a friction post carried by one of said followers; friction shoes co-operating with the post and movable with the other followers, said shoes and post being moved relatively to each other upon relative approach of said follower elements; spring means opposing relative movement of said follower elements; a wedge means engaged by said shoes and movable therewith toward the follower carrying the post; and additional spring resistance means interposed between said last named follower and the wedge means and yieldingly opposing movement of the wedge means.

1,688,650. METHOD OF AND MACHINE FOR HANDLING MOLDED-CONCRETE BLOCKS. HENRY C. PARKER, Catasauqua, Pa., assignor to Hollywood Building Supply Co., a Corporation of Pennsylvania. Filed June 30, 1926. Serial No. 119,544. 4 Claims. (Cl. 214—65.)



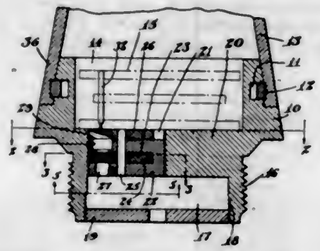
1. A rack for supporting molded concrete blocks comprising a base, a pair of aligned uprights rising from opposite sides thereof and a plurality of horizontally extending arms secured to each of said uprights in vertically spaced relation and in horizontally aligned relation with the corresponding arms on the other upright, the arms adjacent the upper end of the rack being provided with movable extensions hinged to their outer extremities and means for supporting said extensions vertically when turned to horizontal position.

1,688,651. TELEPHONE SYSTEM. WILLIAM OGLESBY PASSMORE, Liverpool, England, assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed July 6, 1926. Serial No. 120,735, and in Great Britain July 20, 1925. 8 Claims. (Cl. 179—18.)



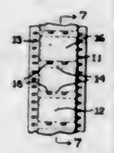
1. In a telephone system in which connections are set up through a first selector having a directed group-selecting movement and a free trunk-hunting movement to select an idle trunk in the selected group and an intermediate selector having similar movements, primary magnets in said switches, respectively, for effecting the group-selecting movements, a line relay in the first selector arranged to repeat impulses directly to the associated primary magnet and to repeat impulses over a talking conductor directly to the primary magnet of the intermediate selector after such selector has been taken into use, and means associated with said first selector for exercising a control over the other talking conductor at the end of the group of impulses transmitted to the intermediate selector so as to cause said intermediate selector to initiate its free hunting operation.

1,688,652. FUSE. CHARLES H. PEARSON, Brookline, Mass. Filed Sept. 22, 1926. Serial No. 137,125. 4 Claims. (Cl. 102—39.)



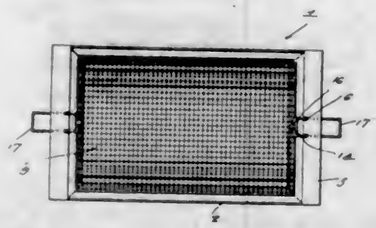
1. A safety device for fuses having a detonating chamber, a primer chamber and a passage flame leading from said primer chamber to the detonating chamber of a movable member in said fuse interposed between the primer chamber and the detonating chamber and extending transversely of the flame passage, a second member associated and simultaneously movable with the first member, said members being movable by centrifugal force to expose the primer in the primer chamber to the action of the firing pin and to clear the flame passage.

1,688,653. FILM-CARRYING STRIP. ARTHUR PRICE, Freeport, N. Y. Filed Aug. 21, 1922, Serial No. 585,415, and in Canada Jan. 31, 1922. 20 Claims. (Cl. 88—19.5.)



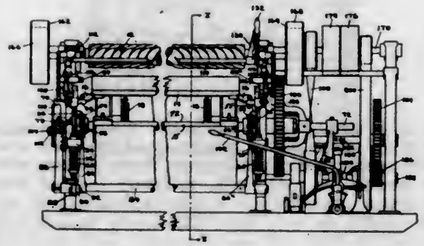
19. A carrying strip, including side portions formed with feed perforations and cross bars extending between these portions, and a celluloid film permanently and directly attached to said cross bars.

1,688,654. DISHWASHER. ALICE EDNA QUANT, New London, Wis. Filed Dec. 30, 1927. Serial No. 243,587. 2 Claims. (Cl. 141—9.)



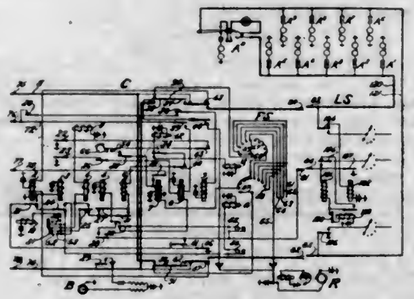
1. In a dish washer, an imperforate casing that is open at its top, handles slidably and swingably associated with the respective ends of the casing at the upper edge portion thereof, a perforate dish receiving receptacle adapted to be removably disposed within the casing, said receptacle being smaller than the casing, bails extending from the ends of the receptacle, and means on the handles engageable with the adjacent bails for effecting the reciprocatory movement of the receptacle within the casing when said handles are disposed in one position.

1,688,655. LEATHER-WORKING MACHINE. LYNDON O. RAMSDELL, Peabody, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Sept. 1, 1927. Serial No. 216,885. 20 Claims. (Cl. 149—16.)



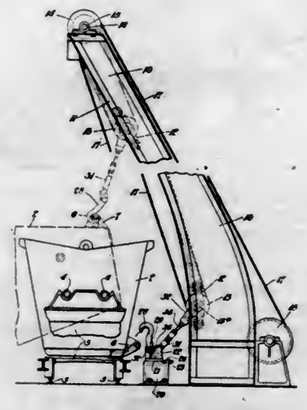
1. In a machine for operating upon hides, skins, leather and other similar pieces of work, a tool for operating on a piece of work, a support for the piece of work movable in one direction to present the work to the tool and in a reverse direction to return the piece of work to initial position, and power-operated means for moving the tool into position to operate upon the work while the work support is moving in one direction and for moving the tool to inoperative position during the reverse movement of the work support.

1,688,656. AUTOMATIC TELEPHONE SYSTEM. ARTHUR J. RAY, Cuba, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed May 22, 1925. Serial No. 31,987. Renewed Aug. 29, 1927. 12 Claims. (Cl. 179—17.)



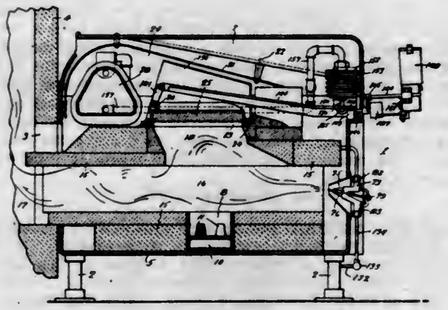
1. In a telephone system, an automatic line selecting switch, an automatic ringing-current selecting switch individual to said first switch, means for first operating said first switch to select a line and for then operating said second switch to select ringing-current, means effective only after said second switch has been operated for testing said line, means for preventing the completion of the connection if the line is busy, and means for automatically completing the connection when the line becomes idle.

1,688,657. LADLE-TILTING APPARATUS. THEODORE A. REPPER, Swissvale, Pa. Filed May 8, 1926. Serial No. 107,676. 6 Claims. (Cl. 214—64.)



1. In a ladle tilting apparatus, a support, a hook pivotally mounted on said support, an elevating carriage, a connecting arm pivotally connected to said hook and said carriage, and means for elevating said carriage.

1,688,658. HEATING SYSTEM. MARC RESEK, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 18, 1925. Serial No. 24,052. 27 Claims. (Cl. 158—1.)

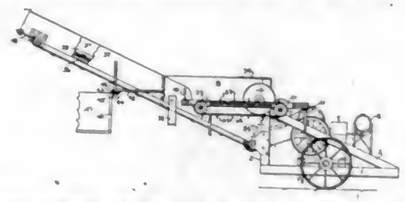


1. In a heating system, the combination of a burner of the injector type, a steam generator exposed to a source of heat, a conduit leading from the steam generator to the burner, means for conducting liquid fuel to the burner, means for varying the amount of heat delivered to the generator thereby to control the steam pressure delivered to the burner, means operated by the steam pressure for actuating the last mentioned means, an adjustment whereby the steam pressure required to actuate said last mentioned means may be varied, and thermostatically controlled mechanism for automatically changing said adjustment.

1,688,659. HEADING AND ELEVATING MACHINE. HARVE D. ROSE and ARCHIE MANTHE, Wamego, Kans. Filed Feb. 25, 1926. Serial No. 90,592. 2 Claims. (Cl. 146—81.)

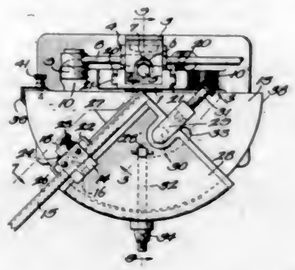
1. In a heading and elevating machine, a frame carried by a pair of wheels, a slotted saw table positioned on the frame, an elevator chute attached to the frame, and having a standard pivotally connected to each side there-

of as temporary supporting means therefor; a pivotal and removable connection comprising a bar and a pin centrally positioned and laterally extending from the bar,



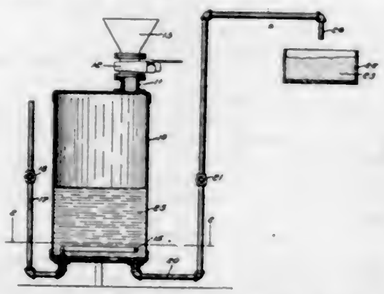
a brace member affixed to each side of the elevator as carrying means for the bar, said pin to be attached to the bed of a wagon as conveying means for the machine.

1,688,660. CUTTING TOOL. HARRY B. ROUSE, Chicago, Ill., assignor to H. B. Rouse & Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 13, 1927. Serial No. 160,924. 4 Claims. (Cl. 164—10.5.)



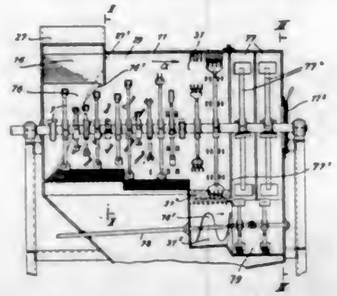
1. The combination with a cutter; of a work holding table formed with a track circularly curved upon a center adjacent the cutter; and a work presenting member having work engaging sides converging toward the cutter and movable upon the table and engaging said track to be guided in its movements, said track and work presenting member having downwardly and inwardly tapering interengaging surfaces serving to prevent the work presenting member from being lifted where it thus engages said track.

1,688,661. METHOD OF AND APPARATUS FOR PREPARING BINDING MATERIAL FOR CORES. WILLIAM B. RUNYAN, Dayton, Ohio, assignor to The Dayton Malleable Iron Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 9, 1924. Serial No. 685,186. 9 Claims. (Cl. 22—89.)



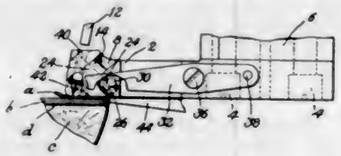
1. The method of preparing a moulding material such as for baked cores, which comprises adding definitely proportioned quantities of oil and water, intimately admixing the oil and water, and adding the admixed oil and water to sand to thereby form the moulding material.

1,688,662. THRASHING MACHINE. FELIX SCHLAYER, Madrid, Spain. Filed Mar. 26, 1925, Serial No. 18,587, and in Germany Apr. 8, 1924. 15 Claims. (Cl. 130—27.)



1. In a machine of the character described, a drum having an intake and a discharge end, a rotary shaft axially extending within said drum, rotary working members mounted on said shaft, stationary working members, and a projection at the intake arranged inside said drum between the outer ends of the rotary working members and the drum wall, said projection being adapted to restrict the space around the rotary working members at points circumferentially in advance of the intake.

1,688,663. FASTENING-INSERTING MACHINE. THOMAS H. SEELY, Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 26, 1925. Serial No. 52,544. 16 Claims. (Cl. 1—5.)



1. In a fastening-inserting machine, a tack block comprising a body portion having a driver passage, and jaws recessed to form a tack pocket, said jaws being arranged to swing apart on axes arranged obliquely to the direction of the driver passage and to that face of the work into which the tack is driven.

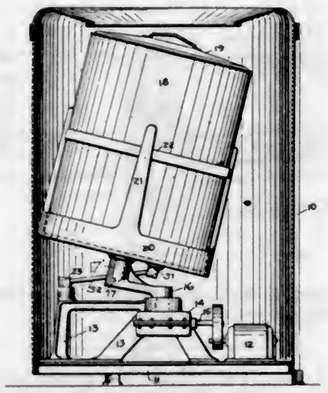
1,688,664. DIPPER HANDLE. WILLIAM M. SHEEHAN, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Aug. 18, 1926. Serial No. 129,908. 4 Claims. (Cl. 214—145.)



1. A handle for power shovels consisting of a one-piece casting having a shovel mounting portion and spaced parallel arms extending therefrom, there being integral transverse flanges connecting relatively short portions of said arms to form a centrally located box-shaped pocket for receiving and backing up a buffer block.

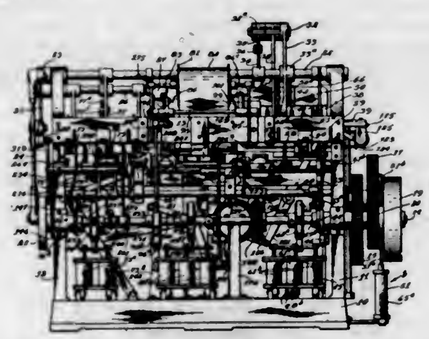
1,688,665. WASHING MACHINE. DONALD G. SMELLIE, Maywood, Ill., assignor to The Hoover Company, a Corporation of Ohio. Filed Oct. 9, 1925. Serial No. 61,400. 4 Claims. (Cl. 250—78.)

1. In a washing machine, in combination, a supporting frame, a driven shaft supported thereon, a container support secured to the driven shaft, a container mounted thereon, eccentrically with relation to and inclined toward



the axis of the driven shaft whereby the container may be gyrated about the driving axis in a continuous course, and means oscillating the container about its longitudinal axis.

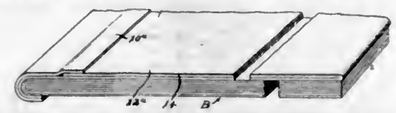
1,688,666. MACHINE FOR FORMING BOOK END SECTIONS. SWAN SMITH, White Bear, Minn., assignor of one-half to West Publishing Company, St. Paul, Minn., a Corporation of Minnesota. Filed Mar. 28, 1925, Serial No. 19,042. Renewed Feb. 6, 1928. 21 Claims. (Cl. 11—1.)



13. In a machine for forming book end-sections, means for gathering an end-sheet and a book-section with a marginal portion of the former overreaching the back edge of the latter, clamping mechanism for temporarily holding said end-sheet and book-section in gathered relation, a gripper for turning said overreaching portion of the end-sheet around the back edge of the book-section and for clamping said portion against the back of said section, means for pasting one of said end-section members prior to the folding of said end-sheet by said gripper to secure a bond between said turned portion of the end-sheet and said book-section, said gripper being adapted to take the formed end-section from said clamping mechanism.

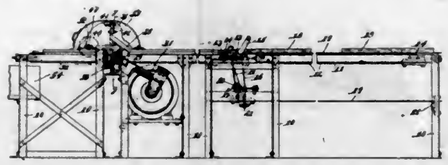
1,688,667. BOOK END SECTION. SWAN SMITH, White Bear, Minn., assignor of one-half to West Publishing Company, St. Paul, Minn., a Corporation of Minnesota. Filed May 16, 1927. Serial No. 191,036. 1 Claim. (Cl. 281—21.)

A book end-section comprising a terminal printed section and an end-sheet and hinge-strip assembly, said assembly including an elongated sheet folded upon itself on a transverse line off center of the sheet to bring the ends thereof in spaced relation and further including a hinge-strip marginally secured to the free ends of said



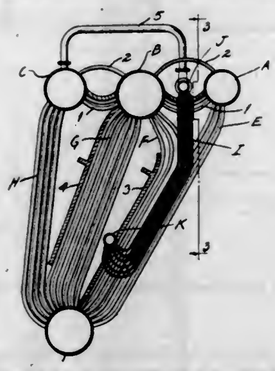
folded sheet, said assembly being marginally turned over the back edge of the printed section on a line of fold extending longitudinally of the hinge strip, the back turned portion of said assembly being secured to the printed section.

1,688,668. CANDY-CUTTING MACHINE. GEORGE SORENSEN, Chicago, Ill. Filed Oct. 4, 1926. Serial No. 139,320. 12 Claims. (Cl. 107—21.)



5. A machine for automatically cutting candy or the like adapted to receive the candy in the form of a slab resting on a flexible sheet, comprising feed-in intermediate and discharge conveyors, said conveyors being arranged in longitudinal registration with each other with gaps between them; withdrawing rollers associated with said first gap and arranged to withdraw said flexible sheet therethrough; and cutting elements arranged in said other gap, substantially as described.

1,688,669. SUPERHEATER BOILER. ROBERT L. SPENCER, St. Louis, Mo., assignor to Heine Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 8, 1926. Serial No. 86,856. 3 Claims. (Cl. 122—478.)



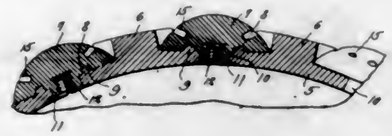
1. A water tube boiler, comprising a plurality of elevated steam-and-water drums, a lower water drum, banks of upright water tubes connected at their lower ends with said water drum and at their upper ends with said steam-and-water drums, the front tube bank beng arranged so that the gases from the combustion chamber will flow upwardly over the same, upright superheater elements arranged in vertical lanes in the front tube bank, an intake header attached to the upper ends of said superheater elements and arranged in the space between the first and second steam-and-water drums, and a discharge header attached to the lower ends of said superheater elements and arranged at the rear of the front tube bank.

1,688,670. DENTAL APPARATUS. GEORGE A. SWENDIMAN, Grand Forks, N. Dak. Filed Dec. 5, 1927. Serial No. 237,708. 14 Claims. (Cl. 32—17.)



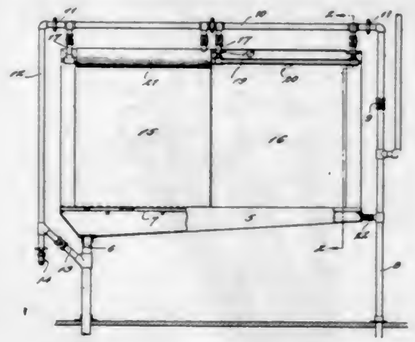
1. A thin, ductile matrix consisting of two ring portions, a narrow portion to be gripped, and a plurality of elevated carets in the wing portions, said matrix being formed of a single piece of material.

1,688,671. TIRE CONSTRUCTION. WILLIAM ALFRED TAYLOR, Detroit, Mich. Filed June 8, 1927. Serial No. 197,421. 2 Claims. (Cl. 152—16.)



1. A tire tread embodying a body portion formed with recesses, the recesses having curved side walls, tread sections positioned within the recesses, securing members extending through the body portion and into the tread sections to secure the tread sections into position, and means adjacent to the securing members for holding the tread sections against lateral movement.

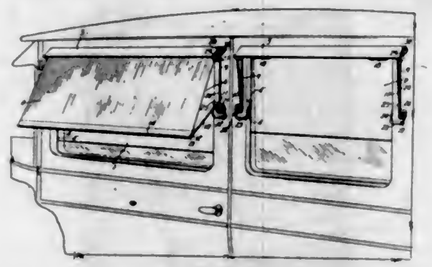
1,688,672. BLACKBOARD CLEANER. THOMAS W. THOMPSON, Freeland Park, Ind. Filed Oct. 28, 1925. Serial No. 65,453. 1 Claim. (Cl. 35—15.)



A cleaning system for blackboards comprising a blackboard having its lower edge spaced from the wall to thereby set the blackboard at an angle to the vertical, a perforated water pipe connected to a water supply system arranged at the top of the blackboard, a metal guard enclosing the water pipe whereby the water striking the guard is forcibly directed against the blackboard.

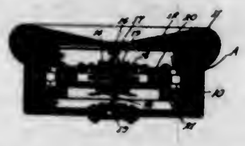
1,688,673. AUTOMOBILE AWNING. TANDY B. THURMAN, Kansas City, Mo. Filed Dec. 31, 1926. Serial No. 158,252. 5 Claims. (Cl. 156—44.)

1. In an awning of the character described a supporting member including inbent arms having fingers for seating in the lintel and side grooves of a window frame, a coil on said member, and a spreader member including a coil



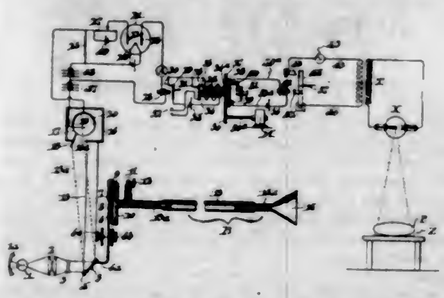
hingedly engaged with the coil on the supporting member and having a web engaging portion.

1,688,674. RECEIVER. HARRY G. WEBSTER, Chicago, Ill. Filed June 7, 1923, Serial No. 643,890. Renewed Jan. 11, 1928. 21 Claims. (Cl. 179—119.)



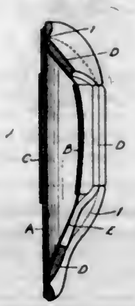
1. In a receiver of the character described, an electromagnet having a reciprocatory armature the polarity of which is reversed with reversals of current in the electromagnet coil, and two magnets positioned each on a side of the armature opposite the other, whereby the armature is attracted toward one or the other of the magnets according to the polarity of the armature, and sound producing means actuated by said armature.

1,688,675. METHOD AND APPARATUS FOR TAKING SYNCHRONIZED RADIOGRAPH EXPOSURES. CHARLES N. WEYL, Philadelphia, Pa. Filed Mar. 5, 1925. Serial No. 13,175. 12 Claims. (Cl. 250—34.)



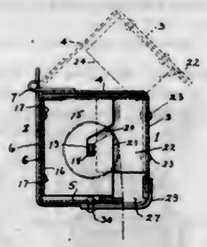
3. In a synchronizing apparatus for radiograph exposures, an applicator including an element adapted to be placed in relation to a part of the body demonstrating the arterial pulse, a diaphragm adapted to be actuated in accordance with said pulse, and a lever actuated by said diaphragm at a predetermined amplitude of movement thereof; a source of light, a photo-electric cell, and a mirror adapted to be actuated by said lever to reflect the beam from said source onto said cell; a timing device adapted to energize the X-ray tube at a predetermined time interval after its own actuation, and means controlled by said photo-electric cell to actuate said device.

1,688,676. ATHLETIC GUARD. WILLIAM P. WHITLEY, St. Louis, Mo., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 28, 1925. Serial No. 77,932. 3 Claims. (Cl. 2—22.)



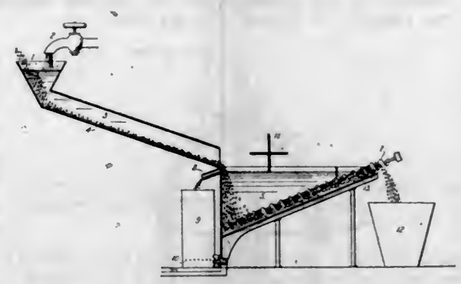
1. An athletic guard composed of a substantially rigid and inflexible protecting element of such cross-sectional shape that the side edge portions of same lie in a different plane than the intermediate portion of said element, a shock absorbing member stretched taut across the rear side of said protecting element and secured to the side edge portions of same, and a non-stretchable stay drawn taut across the front side of said protecting element and having its ends permanently secured to the side edge portions of said protecting element for counteracting the tendency of said element to assume such a condition as to materially reduce the tautness of said shock absorbing member.

1,688,677. MAP CASE. JOHN WINTER, Goshen, Ind. Filed Mar. 25, 1927. Serial No. 178,459. 3 Claims. (Cl. 40—85.)



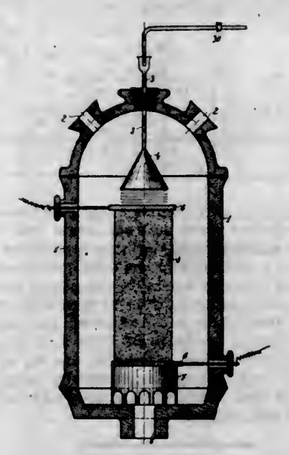
2. A map case of rectangular formation and composed of two cooperating sheet metal sections hinged together, each of which is substantially L-shaped in cross-section, one of said sections serving as a cover for the other which is normally stationary, a pair of polygonal case heads rigidly fastened to said stationary case section at opposite ends thereof, one of said heads being apertured to receive a roller stud, the bottom wall of said stationary section being shortened to provide an opening to admit the passage of a map, a slotted roller bearing plate rigidly secured to said stationary case section inwardly of and adjacent the end opposite said apertured head, said plate extending transversely of the case and intermediate the extremities thereof, said plate being provided with an upright slot to receive a polygonal roller stud and an angular slot in communication therewith to enable the removal of said roller stud, a locking plate rigid with said case cover section and extending transversely of the case and adapted to cooperate with said slotted bearing plate to lock the roller stud within its bearing in said slotted plate, and latch means to disengagenbly secure the case sections together.

1,688,678. PROCESS OF CLEANING THRASHED CEREALS. ALBERTO ALTAMIRANO, Mexico City, Mexico, assignor to Moisés Solana, Mexico City, Mexico. Filed Nov. 13, 1925, Serial No. 68,916, and in Mexico Dec. 24, 1924. 2 Claims. (Cl. 209—173.)



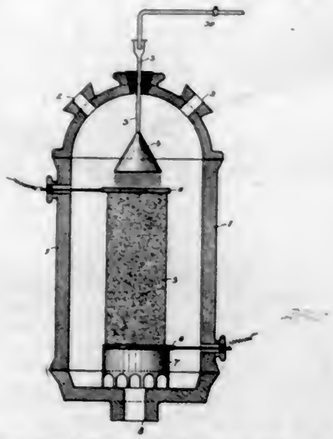
1. A continuous process of cleaning thrashed corn and other cereals, comprising the steps of feeding the grains, while submerged in a moving current of water, through an extended, downwardly-inclined path and separating the heavier particles of impurities from the grains during their travel by the action of the current; discharging the grains and water at the bottom of said path directly upon the surface of the water in a vat; continuously forcing back the light floating particles and removing them at one side of the vat while keeping the surface of the water at the other side clear; and elevating the grains which sink to the bottom and removing them at the clear side of the vat, while subjecting them to a continuous rubbing action during their elevation.

1,688,679. PROCESS FOR HEATING LIQUIDS BY ELECTRICAL ENERGY. GUSTAV BAUM, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 15, 1925, Serial No. 62,602, and in Austria Oct. 28, 1924. 6 Claims. (Cl. 219—38.)



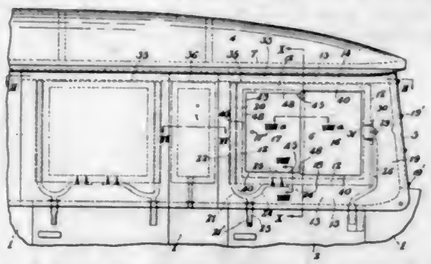
4. Process comprising passing an electrically conducting liquid through an electrically non-conducting multiple channeled structure in amounts insufficient to completely fill the channels in said structure and passing an electric current through said liquid.

1,688,680. APPARATUS FOR HEATING LIQUIDS BY ELECTRICAL ENERGY. GUSTAV BAUM, Weissenstein-on-the-Drau, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y., a Corporation of New York. Original application filed Oct. 15, 1925, Serial No. 62,602, and in Austria Oct. 28, 1924. Divided and this application filed Oct. 19, 1926. Serial No. 142,581. 16 Claims. (Cl. 219—40.)



1. Apparatus for heating liquids by electrical energy, consisting of electric current supply mains and exit lines, structures of non-conducting materials with small interstitial spaces inserted between said lines, and a duct supplying the liquid, the orifice of which duct is placed above the said structures.

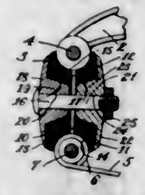
1,688,681. AUTOMOBILE INCLOSURE. GEORGE E. BISHOP, Cleveland, Ohio. Filed Feb. 4, 1924. Serial No. 690,439. 7 Claims. (Cl. 296—139.)



1. An automobile side inclosure comprising a non-folding panel having divided glass outlooks, seats and retaining means for the edges of said outlooks comprising a panel bead exteriorly bounding said outlooks and formed with upper and lower inwardly extending extensions holding one outlook stationary against horizontal movement, the other outlook being adapted to move adjacent said extensions, metal angles secured to the panel body and along which said last-mentioned outlook is movable, one leg of each of the respective angles being longitudinally aligned with the edges of said bead extensions, and means for holding the inner faces of said outlooks.

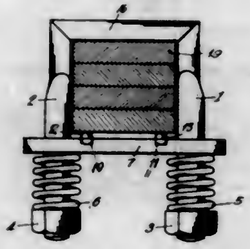
1,688,682. SPRING-SHACKLE ANTIRATTLE ATTACHMENT. HENRY E. BLOMGREN, Brooklyn, N. Y. Filed July 21, 1927. Serial No. 207,350. 6 Claims. (Cl. 267—54.)

1. The combination with a spring shackle formed of side links and upper and lower eye members connected by the links, of a pair of blocks of resilient material such as rubber placed in proximity at the middle of the shackle, and a clamp engaging the blocks to hold them together under



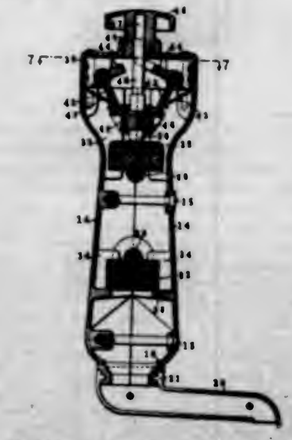
compression whereby to expand the said marginal portions into engagement with all of the said members of the shackle.

1,688,683. SHOCK ABSORBER FOR AUTOMOBILE AND OTHER SPRINGS. ARCH M. BROWN, Chickasha, Okla. Filed May 23, 1925. Serial No. 32,346. 3 Claims. (Cl. 267—53.)



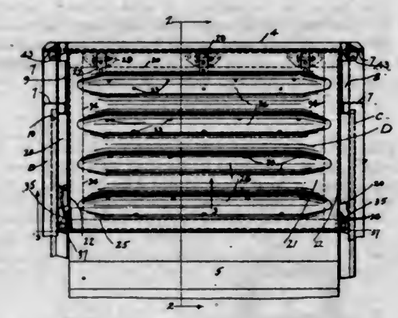
1. In a device of the character described in combination with a leaf spring; a clip having its ends threaded, said clip being adapted to be passed over the spring; and bearing plate; anti-friction members inserted between said bearing plate and the adjacent face of the spring; springs surrounding the threaded ends of the clip; and nuts threaded on said ends, said nuts bearing against the springs and tending thereby to force the bearing plate inwardly and to hold the anti-friction members against the face of the leaf spring.

1,688,684. WRINGER. WILLIAM W. BROWN, Oak Lane, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company, a Corporation of Pennsylvania. Filed Apr. 26, 1923. Serial No. 634,707. 23 Claims. (Cl. 68—32.)



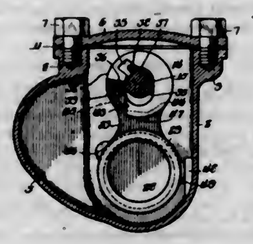
1. In a wringer, in combination, complementary front and back frame sections having complementary recesses, said frame sections with their recesses cooperating to form tubular end and base frame elements providing housings in said end elements and a longitudinal conduit in said base element, bearings for the wringer rolls disposed within said housings, cap sections for said frame end elements, means for securing said frame sections in cooperative relationship to form the wringer frame, and adjusting means mounted in said cap sections for adjusting the bearings of one of said rolls.

1,688,685. RAILWAY CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1927. Serial No. 204,678. 15 Claims. (Cl. 105—259.)



1. In a railway car, the combination of a member pivoted adjacent the end of the car, said member being adapted to form, in one position, a vertical end wall of the car and, in another position, a portion of the level floor of the car; and a sub-floor adjacent said member whereby a depressed floor portion is presented when the movable member is positioned as the end wall of the car.

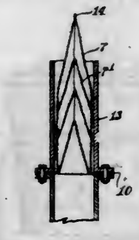
1,688,686. QUICK-OPENING GATE VALVE. RALPH G. CARLSON, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 10, 1927. Serial No. 160,127. 9 Claims. (Cl. 251—18.)



1. The combination with a valve, a seat therefor and an operating handle, said valve having a single pivot connection between it and said handle and being movable between extreme open and closed positions, of means rigidly connected to said pivot for moving said valve initially in a direction parallel a radius of said pivot and for thereafter moving said valve about said pivot, said movements together serving to move said valve from one extreme position to the other.

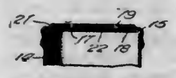
1,688,687. MIXING AND VAPORIZING DEVICE. HENRY M. COGAN, Charleston, W. Va. Filed Aug. 18, 1925. Serial No. 50,917. 5 Claims. (Cl. 48—180.)

1. A fuel mixing device for internal combustion engines lying within the fuel intake pipe between the carburetor and the engine comprising a series of separated foraminous cone screens whose apices extend in the direction of the fuel flow and whose bases are secured to a foraminous



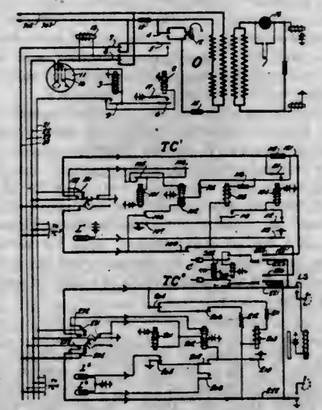
cylinder concentric with the intake pipe and means for securing the base of said cylinder to said pipe.

1,688,688. TALCUM-POWDER BOX. HARRY R. COREY, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 17, 1921. Serial No. 523,005. 2 Claims. (Cl. 221—64.)



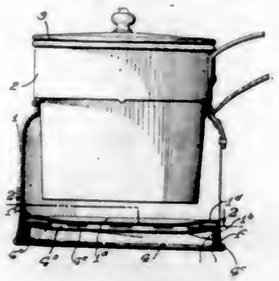
1. A powder box comprising a body having a marginal peripheral depression forming within the same a slightly elevated central perforated top; a cap rotatably secured on said body and having a marginal peripheral depression corresponding with that of the body forming within the same a central elevated cap-top having perforations which are arranged to correspond with those of the body by the rotation of the cap, said cap-top being spaced above said central elevated top of the body and the marginal depression of the cap fitting rotatably in that of the body; and a gasket having perforations corresponding with those of the body and cap and confined within the depressed part of the cap and between the central top parts of the body and cap.

1,688,689. AUTOMATIC TELEPHONE SYSTEM. THOMAS F. CROCKER, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 28, 1925. Serial No. 53,025. 17 Claims. (Cl. 179—27.)



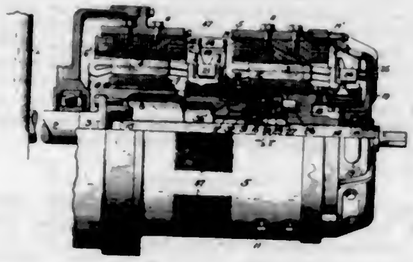
16. In a telephone system, an operator's position, an operator's telephone set for answering calls extended to said position, a receiver included in said set, a relay responsive to the answering of a call for disabling said receiver and for tripping the ring, and a second relay responsive to said first relay for deactuating said first relay.

1,688,690. COOKING UTENSIL. WILLIAM R. DICK, San Diego, Calif. Filed Dec. 4, 1926. Serial No. 152,584. 13 Claims. (Cl. 53—1.)



7. In a waterless double cooker, the combination with the lower outer receptacle with perforated bottom, of a substantially conforming, readily removable, perforate bottom portion adapted to fit therein.

1,688,691. TRANSMISSION SYSTEM FOR AUTOMOTIVE VEHICLES. HARCOURT C. DRAKE, Hempstead, and ELMER A. SPERRY, Brooklyn, N. Y., assignors, by direct and mesne assignments, to Sperry Development Company, Dover Green, Del., a Corporation of Delaware. Filed May 5, 1922. Serial No. 558,643. 33 Claims. (Cl. 290—10.)

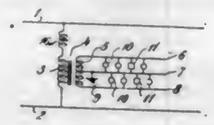


1. In an electric transmission system, a driving element, a generator connected therewith, a driven element, a motor coupled thereto and electrically connected with said generator, a one way clutch for interconnecting said elements, and means controlled by the relative speed of said elements for rendering said clutching means operative.

10. In combination, a vehicle, a prime mover therefor, a dynamo electric machine coupled to said prime mover to be driven thereby, a second dynamo-electric machine electrically connected to said first named machine and adapted to drive said vehicle, a source of E. M. F. normally connected across the field of said first named machine, means for reversing the connections between said machines, and means controlled by said reversing means for causing said source to be disconnected from said field and for connecting the same across the field of said second named machine.

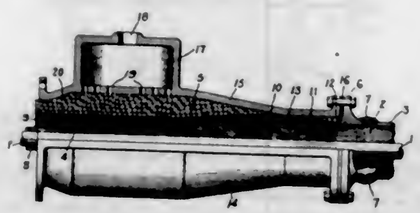
1,688,692. WIRED RADIO ON POWER LINES. ROBERT D. DUNCAN, Jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 12, 1925. Serial No. 14,856. 2 Claims. (Cl. 177—352.)

1. A wired radio system comprising a power transmission line for the delivery of power and high frequency signaling energy to a plurality of subscriber stations, a power transformer at each of said subscriber stations, said power transformer having primary and secondary windings for delivery of said power to a load circuit, an auxiliary inductance device interposed in series with said primary winding and connected across said transmission line, and combined impedance of said primary winding and said auxiliary inductance at the frequency of said signaling energy



being less than the impedance of said primary winding alone at the same frequency said auxiliary inductance being designed to pass said power to said load simultaneously with the delivery of said high frequency signaling energy to said load through said transformer.

1,688,693. INSULATED CABLE JOINT. EUGENE D. EBY, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 30, 1924. Serial No. 710,183. 2 Claims. (Cl. 173—268.)



1. An insulated joint for electric cables having thereon wrappings of sheet insulation and a protective metal sheath, comprising an outer casing, an end ring for said casing adapted to fit upon the surface of said cable insulation and electrically connected to said sheath, reenforcement wrappings of sheet insulation disposed upon said cable insulation with a tapered end adjacent said end ring, and a ground shield electrically connected to said end ring and disposed upon the tapered end of said reenforcement wrapping.

1,688,694. PIEZO-ELECTRIC DEVICE. ALVARADO L. R. ELLIS, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 14, 1925. Serial No. 43,627. 4 Claims. (Cl. 171—327.)

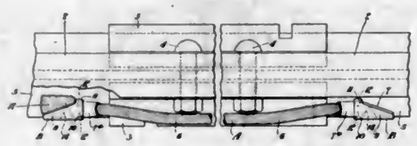


1. A piezo-electric oscillator comprising a plurality of crystals attached to one another in reverse relation at their adjacent edges.

1,688,695. COAL. GUSTAVUS J. ESSELEN, Jr., Swampscott, and MARK W. WEISS, Boston, Mass., assignors to The Delaware, Lackawanna & Western Coal Co., New York, N. Y., a Corporation of New Jersey. Filed Dec. 28, 1927. Serial No. 243,208. 2 Claims. (Cl. 44—1.)

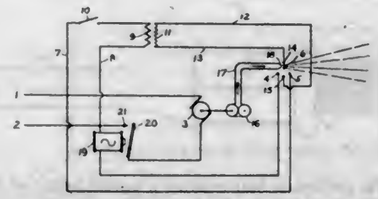
1. Coal having an irregular surface including crests and valleys, said coal having coloring material deposited in the valleys of the surface thereof in an amount sufficient to characteristically alter the appearance of the coal in bulk, but insufficient to cause the coal to lose its general appearance as coal.

1,688,696. RAIL BOND. HAROLD H. FEBREY, Newark, N. J., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Mar. 16, 1927. Serial No. 175,817. 5 Claims. (Cl. 173—287.)



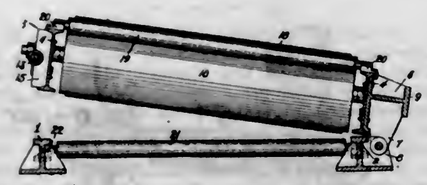
1. A rail bond adapted to be welded to the rails to be bonded, comprising a flexible body portion, a rigid solid terminal on each end of said body, and ferrous metal jacket members mechanically secured on said terminals and covering at least two sides of said terminals, the bottom face and at least a portion of one side face of said terminal being exposed.

1,688,697. ELECTRICAL CIRCUIT CLOSER. FRANK FISCHER, Larchmont, N. Y., and ARNOLD F. VAN PELT, Interlaken, N. J., assignors to Grant Oil Burner Corporation, Wilmington, Del., a Corporation of Delaware. Filed June 21, 1926. Serial No. 117,393. 4 Claims. (Cl. 158—28.)



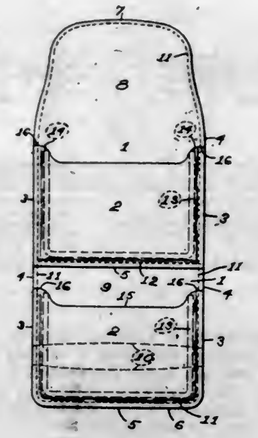
1. An electrical circuit-closer, consisting of a high-votage controlling circuit having a spark gap and a relatively low voltage controlled circuit having an air-gap intercepting the spark-gap, the air-gap being rendered relatively conductive in the controlled circuit when energized by a spark produced at the spark gap by the high-voltage controlling circuit, and a switch in the controlling circuit.

1,688,698. CONVEYER. IVAL G. FOWLER, Toledo, Ohio, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio, a Corporation of Ohio. Filed Sept. 23, 1926. Serial No. 137,193. 4 Claims. (Cl. 198—204.)



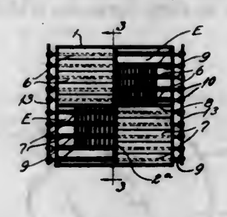
1. A conveyer of the class described having a laterally tiltable frame, belt guiding means carried by the frame, an endless conveyer belt guided by said means and removable sideways from the guide means and frame when the frame is tilted.

1,688,699. CIGARETTE CASE. PRINCE ALBERT GARDNER, Jr., St. Louis, Mo. Filed Oct. 28, 1926. Serial No. 144,717. 1 Claim. (Cl. 206—41.)



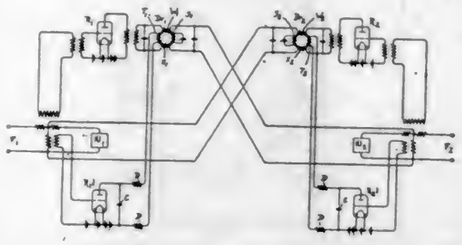
A cigarette case comprising a substantially rectangular body portion composed of flexible material, a series of pieces of flexible material attached to said body portion, one above the other, and arranged with their open ends disposed upwardly, and a resilient U-shaped rod insertible beneath each of said pieces to space the same from the body portion to define pockets, the arrangement of each of the pockets being such as to permit the application of pressure on the opposing lateral sides against the resilient arms of said rod for bulging the intermediate portion of a pocket, said pocket being returned to its normal position when the pressure on said arms is released.

1,688,700. REGENERATIVE AIR HEATER. HENRY F. GAUSS, Moscow, Idaho, assignor to Heine Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 14, 1926. Serial No. 81,336. 5 Claims. (Cl. 257—6.)



2. An air heater, comprising a casing divided into two passageways, a heat absorbing means in each of said passageways, an inlet at one end of said casing divided into four portions, an inlet duct that communicates with two of said portions, a separate inlet duct that communicates with the other two portions, a discharge at the opposite end of said casing divided into four portions, a discharge duct communicating with two of said discharge portions, a separate discharge duct communicating with the two remaining discharge portions, and closures for the four portions of the inlet and for the four portions of the discharge arranged so that two of the inlet closurers and two of the discharge closures are normally open, and the remaining inlet and discharge closures are normally closed.

1,688,701. AMPLIFIER CONNECTION. FRIEDRICH GEHERTS, Karlshorst, near Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Sept. 10, 1923, Serial No. 661,739, and in Germany Nov. 7, 1922. 11 Claims. (Cl. 179—170.)



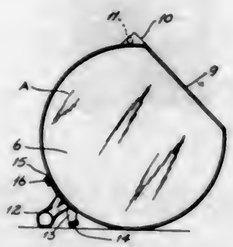
1. The combination in a duplex telephone amplifier system of an impedance comprising a winding connected in each current path and means independent of said winding responsive to talking currents transmitted over the path in which said impedance is connected for automatically increasing the value of said impedance.

1,688,702. METHOD OF TREATING ARTIFICIAL FIBERS. ERNEST K. GLADDING, Buffalo, N. Y., assignor to Du Pont Rayon Company, Incorporated, Buffalo, N. Y., a Corporation of Delaware. Filed July 11, 1927. Serial No. 204,715. 7 Claims. Cl. 18—54.)



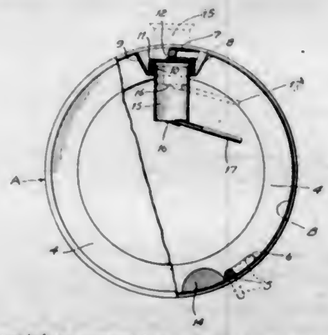
1. The step in the method of treating a cake of artificial fibers which comprises covering it with a fabric.

1,688,703. CONTAINER. WALTER S. GRANT, St. Louis, Mo. Filed Oct. 20, 1926. Serial No. 142,797. 5 Claims. (Cl. 221—1.)



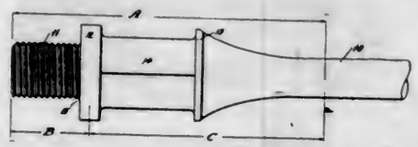
1. A container consisting of a substantially drum-shaped body; a carrying handle mounted at the top of said body; and a pouring spout so mounted in relation to said handle as to be protected by said handle from injury when the container is dropped upside-down, the tip of said pouring spout being within the plane wherewith said handle and the outer wall of said drum-shaped body contact when the container is in upside-down position.

1,688,704. CONTAINER. WALTER S. GRANT, St. Louis, Mo. Filed July 15, 1927. Serial No. 205,880. 2 Claims. (Cl. 221—1.)



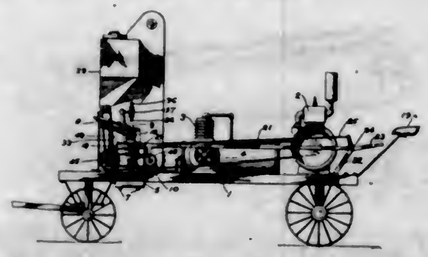
1. A container comprising a drum having a peripheral wall, and a pouring spout radially and telescopically mounted in said wall, said drum having a folding carrying handle and a folding leg, each arranged to lie within the plane of the peripheral wall of said drum when in folded position.

1,688,705. METHOD OF HEAT-TREATING SUCKER RODS. JESSE L. GRAY, Los Angeles, Calif., assignor, by mesne assignments, to L. P. Burgess, D. Daniels, and J. O. Clutter, trustees. Filed Jan. 8, 1927. Serial No. 159,852. 2 Claims. (Cl. 148—21.)



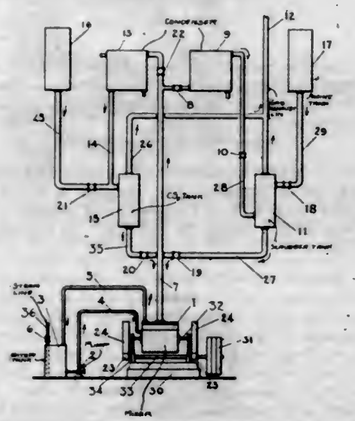
2. The method of heat treating a defined length of a rod or the like, that includes the heating the defined length and an adjacent additional length at least to the transformation point, quenching the defined length and allowing the remainder of the heated portion to retain a part of its heat above the temperature of quench, then allowing the retained heat of the unquenched heated portion to flow into the quenched portion to a condition of heat equilibrium and thus to reheat the quenched portion, the temperature of reheating being controlled by proper regulation of the retained temperature and mass of the unquenched portion in proportion to the mass and quenching temperature of the quenched portion.

1,688,706. DUST SPRAYER. FRED E. GREENE, Berkeley, Calif., assignor to A. B. Humphrey Co., Perkins, Calif., a Corporation of California. Filed July 20, 1926. Serial No. 123,635. 6 Claims. (Cl. 43—148.)



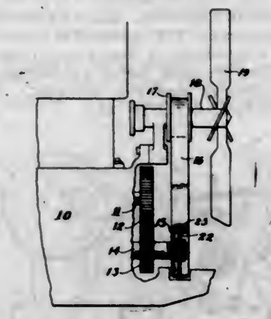
1. In a dust sprayer, the combination of a movable continuous support, means for continuously moving the support, a dust container above the support, means for sifting dust from the container onto the support as the support travels therebeneath, and a suction pipe having a suction head adjacent the support with the mouth thereof so closely adjacent the support as to suck the dust therefrom.

1,688,707. PROCESS OF CATALYZING THE FORMATION OF THIO-UREAS. CARL NELSON HAND and HAROLD P. ROBERTS, Nitro, W. Va., assignors to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Filed Oct. 1, 1924. Serial No. 740,941. 6 Claims. (Cl. 260—125.)



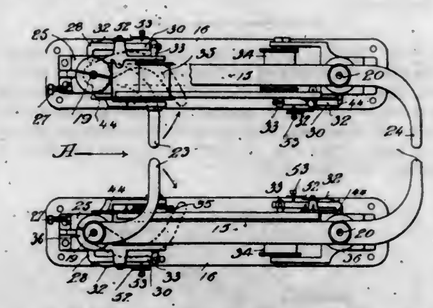
4. The process of making thio-carbanilide which comprises interacting aniline and carbon disulfid at temperatures from 46 to 46.2° C. in the presence of a small quantity of ammonia.

1,688,708. SECURING DEVICE FOR FAN PULLEYS AND THE LIKE. B D HAYS, Grand Saline, Tex., assignor, by mesne assignments, of one-half to C. A. Fischer, Fort Worth, Tex. Filed Dec. 14, 1923. Serial No. 680,694. 1 Claim. (Cl. 287—52.)



In a device for securing a pulley having a rim and a hub to a shaft, which elements have registering apertures, a main pin formed to have one end thereof inserted through said apertures and having a transverse slot extending through its opposite end, a pair of opposed substantially U-shaped latching members in the slot having the inner side faces of their top and bottom portions in engagement with each other and their outer faces in engagement with the walls defining the slides of the slot, a pivot pin common to both of the members and extending therethrough and connected to the main pin, the bottoms of the members being formed to engage the bottom wall of the slot and the tops thereof being formed to engage the inner face of the pulley rim, and a coil spring between the members connected to both and disposed in the open centers thereof.

1,688,709. PASSAGEWAY-CONTROL MECHANISM. FRANK HEDLEY, Yonkers, and JAMES S. DOYLE, Mount Vernon, N. Y. Filed Dec. 28, 1920. Serial No. 433,692. 25 Claims. (Cl. 39—3.)



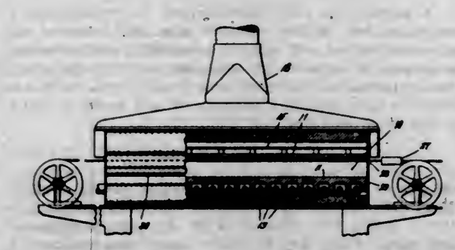
1. In a passageway controlling mechanism, means including vertical shafts arranged to form a restricted passageway between them, in a combination with barrier arms grouped in pairs and extending transversely into said passageway, and having connection with said shafts to rotatively actuate the same, locking devices for said shaft, and means to release said locking devices.

5. In a passageway controlling mechanism, means to form a restricted passage, barrier arms arranged in pairs and extending transversely partway across said passage from opposite sides thereof, rotatively mounted members, means for connecting each of said arms to an associated rotative member to actuate the same, means to yieldingly resist the rotative displacement of said members, and releasable lock devices for said members to maintain said arms in barrier relation across said passageway.

15. In a passageway controlling mechanism, means to form a restricted passageway, barrier arms arranged in successive pairs and extending transversely partway across said passageway from opposite sides thereof, locking devices for said arms, means operated by the rocking movement of the first pair of arms for controlling the locking devices of the second pair of arms, and means controlled by the rocking movement of the second pair of barrier arms for controlling the locking devices of the first pair.

25. In a passageway controlling mechanism, means to form a restricted passageway, barrier means for the restricted passageway, means for locking said barrier means, electrically controlled devices for releasing said locking means, coin or token controlled contacts arranged in the circuit of said devices, and auxiliary contacts controlled by a passage of a person through said passageway, and arranged in said circuit.

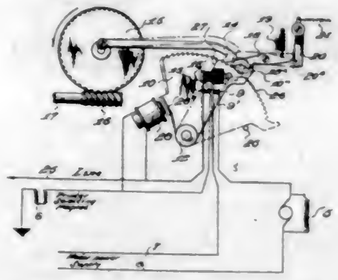
1,688,710. ENAMELING OVEN. CHARLES L. HEISLER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 29, 1926. Serial No. 157,800. 5 Claims. (Cl. 263—3.)



5. An enameling oven comprising heat conducting walls forming a fuel fired heating chambers, heating means on the outside of said walls, said walls being provided with aper-

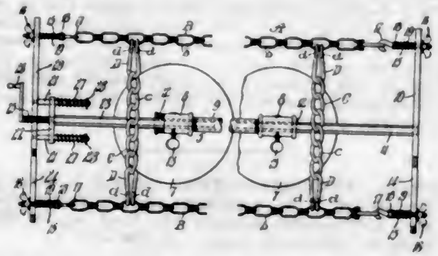
tures through which hot gases are admitted directly from said heating means into said chamber for preheating, and means comprising a slidable perforated plate for closing said apertures to shut off said gases after said chamber has been heated.

1,688,711. MOTOR-STOPPING DEVICE FOR TELEGRAPH TYPEWRITERS. ERNEST W. HEWITT, Stamford, Conn.; FRANK J. MAUS, Paterson, N. J.; and GEORGE MARX, New York, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Feb. 26, 1927. Serial No. 171,328. 2 Claims. (Cl. 178—2.)



1. In combination with a printing telegraph machine having an electric motor to operate the movable parts, of a motor stopping device comprising an actuating element driven by said motor, timing mechanism operated by said actuating element, a switch in the motor circuit operated to open position by said timing mechanism when the latter has operated a predetermined period, and means controlled by the operation of the printing mechanism of the machine to release said timing mechanism and permit it to move to initial position.

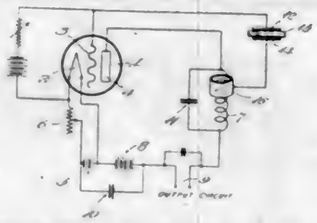
1,688,712. SUPPORT FOR TIRE CHAINS. JOHN P. HOTZ, Boston, Mass., assignor of one-half to Manton A. Wood, Boston, Mass. Filed Mar. 19, 1927. Serial No. 176,806. 8 Claims. (Cl. 29—89.)



1. A support for tire chains having, in combination, a frame, spreaders slidably mounted upon said frame at opposite ends thereof, and hangers mounted in said spreaders and adapted to support the side members of a tire chain at the opposite ends thereof, said hangers also being adjustable in said spreaders laterally of said frame to space said side members apart.

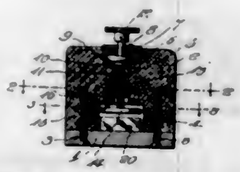
1,688,713. PIEZO-ELECTRIC-CRYSTAL OSCILLATOR SYSTEM. AUGUST HUND, Bethesda, Md., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed May 10, 1927. Serial No. 190,303. 4 Claims. (Cl. 250—36.)

1. In a piezo electric crystal controlled oscillator system an electron tube having grid, filament and plate electrodes, an output circuit interconnected between said plate and filament electrodes, an inductance and a source of potential in said circuit, a pair of parallel electrodes, a piezo electric crystal element mounted between said parallel electrodes



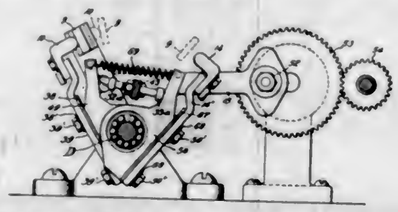
and a connection between one of said parallel electrodes and said grid electrode and a capacity connection between the other of said parallel electrodes and a variable point on said inductance.

1,688,714. PIEZO-ELECTRIC-CRYSTAL APPARATUS. AUGUST HUND, Bethesda, Md., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed May 12, 1927. Serial No. 190,881. 5 Claims. (Cl. 171—327.)



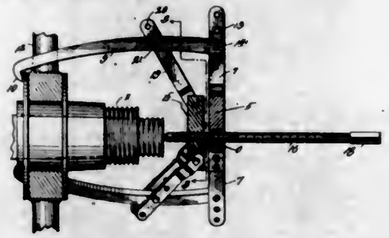
1. Piezo electric crystal apparatus comprising a metallic plate member, an insulated housing carried by said metallic plate member, and having pockets formed therein for receiving piezo electric crystal elements mounted in position upon said plate member and adjustable electrodes carried by said housing centrally of each of the pockets therein for establishing an electrostatic connection with the surfaces of said piezo electric crystal elements.

1,688,715. MOTOR-CONTROL MECHANISM. LEONARD P. HUTT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Dec. 19, 1924, Serial No. 757,065. Divided and this application filed Feb. 10, 1926. Serial No 87,388. 5 Claims. (Cl. 200—92.)



1. An interrupter comprising a contact member mounted to oscillate along a given path, means for oscillating said contact, a pair of auxiliary contacts mounted each to oscillate along an independent path, each independent path having a portion thereof coincident with the path of the first contact, an adjustable member mounted in operative relation to the auxiliary contacts, resilient means for drawing both of said contacts against said adjusting member, said resilient means biasing each of said contacts in an opposite direction whereby when the adjusting member is moved both contacts may be moved simultaneously in opposite directions with respect to the first contact, the relation of said elements being such that by moving the adjusting element one of the auxiliary contacts may be brought into the path of the first contact and the other auxiliary contact removed therefrom whereby contact may be made between the first contact and one of said auxiliary contacts once during each oscillation of the first contact.

1,688,716. WHEEL REMOVER. BENARD D. JERABEK, Hutchinson, Minn. Filed Mar. 29, 1926. Serial No. 98,332. 1 Claim. (Cl. 29—85.)

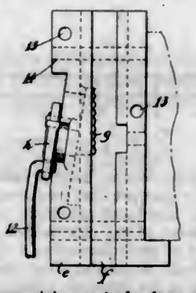


In a wheel remover, a spider member provided with arms, a strap arm projecting beyond the end and from each side face of each arm of said member, those strap arms arranged against the adjacent faces of the spider arms being integrally connected at their inner ends, hooked wheel engaging arms each having its outer end pivoted between a pair of strap arms carried by a spider arm, a nut member disposed inwardly of the spider member, links pivotally connecting the intermediate portions of the arms with the nut member, and an axial thrust screw passing freely through the spider member and threaded through the nut member, said wheel engaging arms being of arcuate form and arranged to present the convexed sides outwardly of the longitudinal center of the device.

1,688,717. METHOD OF MOTH-PROOFING FABRICS. HILTON IRA JONES, Wilmette, Ill. Filed Jan. 24, 1927. Serial No. 163,311. 6 Claims. (Cl. 167—6.)

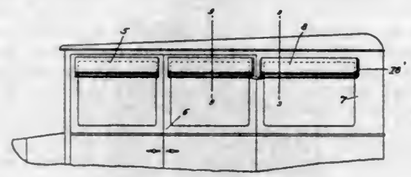
1. The herein described steps in a process of moth-proofing fabrics, which consists in first treating the fabric with an aqueous solution of casein and subsequently treating the fabric with an aqueous solution of a salt of a rare earth metal.

1,688,718. CLAMP. WINFIELD S. JONES and ANTHONY E. MCLEAN, Long Beach, Calif. Filed Oct. 4, 1927. Serial No. 223,936. 4 Claims. (Cl. 24—136.)



1. A clamp comprising a body formed with a work-receiving opening and with an inclined wall facing said opening, a slip mounted for slidable movement upon said inclined wall whereby movement of the slip will project the same into or out of said work-receiving opening, said inclined wall being provided with a slot, a pin projecting from said slip through said slot, which pin travels in said slot during sliding movement of the slip upon said inclined wall, and means connected to said pin for quickly moving said slip upon said wall to grip or release the work in said work-receiving opening.

1,688,719. SUNSHADE FOR AUTOMOBILE WINDOWS. JOHN J. KILLIP, Astoria, Oreg. Filed July 6, 1927. Serial No. 203,787. 3 Claims. (Cl. 296—44.)



1. In a shade for automobile windows comprising a rigid shade section secured along the upper edge of the window, vertically disposed aprons attached at one end above the window for supporting each end of the shade, said rigid section and said aprons extending laterally from the window, a vertically disposed lip formed at the outer edge of said rigid section with a series of tubular end sections formed inwardly thereof, a shade panel having a series of hinge sections formed at one edge complementary with said tubular hinge section, a connecting hinge rod for said hinge section, said lip constituting a stop whereby to limit the outward movement of the panel, yieldable means engaging the shade section and the panel whereby to normally force the latter downwardly, and a snap fastener carried by the rigid section engageable with the free edge of said panel for releasably securing the same in raised position.

1,688,720. TREATMENT OF SEED. AUGUST KLAGES, Magdeburg-Sudost, Germany. Filed May 17, 1926, Serial No. 109,574, and in Germany Oct. 27, 1923. 3 Claims. (Cl. 167—38.)

1. A composition of matter for the treatment of seed in order to destroy noxious agents such as bacteria and the like, said composition comprising a mixture of a salt of a basic aromatic compound having an amino group directly attached to the ring, mercuric chloride adapted to react with said salt and an inorganic chloride capable of accelerating the reaction.

1,688,721. EAR CAP. JOHANNES WILHELM KRAMER, Berlin, Germany. Filed Sept. 10, 1926, Serial No. 134,719, and in Germany Sept. 10, 1925. 4 Claims. (Cl. 179—182.)

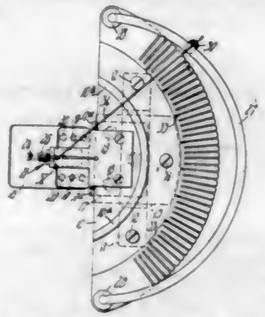


4. An ear cap comprising an annular conical bow of elastic material, fitting to the rear face of an ear concha, a cover connected to the outer edge of said bow, and means on said cover for the attachment of a telephone to said cap.

1,688,722. TYPE-SOLDERING DEVICE. ALFRED G. F. KUBOWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 1, 1925. Serial No. 47,534. 9 Claims. (Cl. 113—59.)

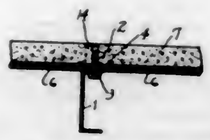
1. A soldering device for gaging a type-carrying block and a type-bar to which said block is to be soldered, said device having a surface upon which the type is held upon its face, a stud adjustable relatively to said surface and upon which a portion of said type-block is positioned to

insure that the face of the type is flat against said surface, and a second gage having a sharp razor-edge constituting



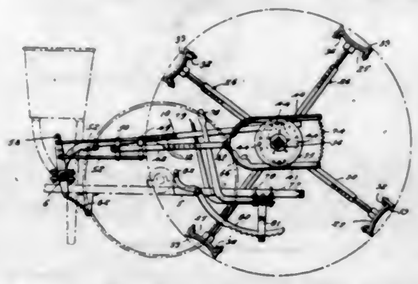
a corner-edge gage for gaging the type at the corner thereof formed by the face and the sides of said type.

1,688,723. ROOF AND FLOOR CONSTRUCTION. JAY C. LATHROP, Cincinnati, Ohio, assignor to Lathrop-Hoge Gypsum Construction Company, a Partnership composed of Jay C. Lathrop and Edward Clyde Hoge, Cincinnati, Ohio. Filed Aug. 25, 1925. Serial No. 52,410. 4 Claims. (Cl. 72—71.)



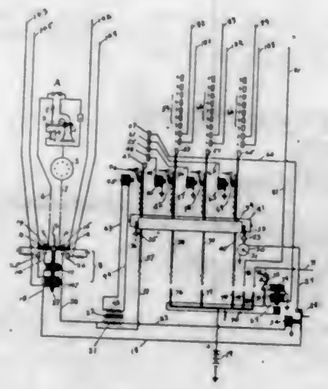
1. In a reinforced floor or roof construction, the combination with supporting beams, and rails or beams extending crosswise of the supporting beams, of a reinforced slab arranged on the supporting means, and enclosing the crosswise rails or beams, and interspaced means of small area rigid with the supporting beams, and nonrigid with relation to the crosswise rails or beams, extending into the slab construction intermediate said cross rails or beams, for the purpose described.

1,688,724. ATTACHMENT FOR CHECK-ROW CORN PLANTERS. JASPER R. LEWIS, Grace, Mo. Filed Apr. 9, 1925. Serial No. 21,867. 6 Claims. (Cl. 74—14.)



1. A movement for planters comprising a shaft, means for rotating said shaft, a series of pins carried by said shaft and being adapted to be rotated thereabout as said shaft is rotated, an arm provided with a notch adapted to receive said pins, said arm being arranged in the path of movement of said pins to cause the arm to be moved by said pins to disengage the notch from the pins as the shaft rotates, and spring means for normally holding said arm in engagement with said pins.

1,688,725. MACHINE SWITCHING SYSTEM FOR TELEPHONE EXCHANGES. CLYDE F. MCCANN, San Francisco, Calif. Filed Nov. 4, 1926. Serial No. 146,175. 7 Claims. (Cl. 179—16.)

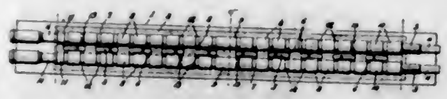


1. In a machine for connecting the calling and called lines of a telephone system, line jack members keyed to correspond to the line numbers, digit members retaining the keyed line members, connective means opposing the line jack members, means to withdraw the digit members by the calling line, releasing the called line jack upon the connective means, means to release the calling line jack upon the connective means by the calling line, and means to ring the called line.

1,688,726. HYDROLYSIS OF METHYL CHLORIDE. RALPH H. MCKEE, New York, N. Y. Filed Sept. 7, 1922. Serial No. 586,760. 7 Claims. (Cl. 260—156.)

1. Process of hydrolyzing methyl chloride, comprising passing the same, admixed with steam, and at an elevated temperature, over a hydrolyzing agent comprising an alkaline-earth metal hydroxid.

1,688,727. CAST-IRON PIPE. JAMES R. MCWANE, Birmingham, Ala. Filed Jan. 12, 1926. Serial No. 80,781. 11 Claims. (Cl. 137—75.)

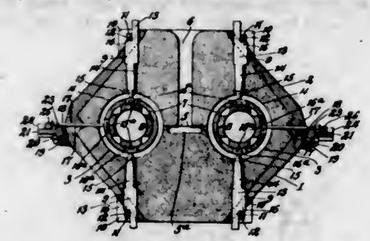


1. A cast iron pipe section having exterior circumferential enlargements adapted for threading, said enlargements being spaced apart and extending from one end to the longitudinal center of the pipe section; and a similar enlargement formed at the other end; all the enlargements being formed without weakening the pipe, which is of standard thickness at its thinnest portions.

1,688,728. MEANS FOR SUPPORTING CORES IN MOLDS IN THE MANUFACTURE OF TUBULAR CASTINGS. JAMES R. MCWANE, Birmingham, Ala. Filed Dec. 12, 1924. Serial No. 755,511. 9 Claims. (Cl. 22—184.)

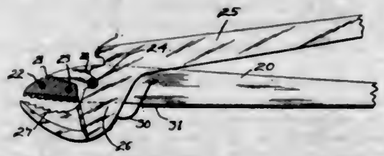
1. The combination of a pipe mold having a core bar, and means for preventing deflection of the core bar in the pipe mold, comprising a pin having a reduced inner end, said pin being adapted to be inserted through the flask to bear on

the core bar, the said reduced end traversing the mold space to be removably embedded in the pipe but not to enter



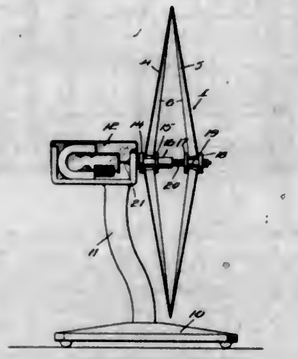
the bore of the pipe and means for locking the pin to maintain its contact with the core bar.

1,688,729. PLIERS. HOMER A. MEAD, Turlock, Calif. Filed Aug. 26, 1925. Serial No. 52,489. 1 Claim. (Cl. 294—44.)



A plier of the class described comprising a straight member U shaped in cross section forming a handle, a steel block having serrations secured to said member at one end thereof to form a jaw, an opening through the U shaped member adjacent the jaw, a second member having a straight handle, a notched shank on said handle adapted to extend transversely through the opening in said first member and having serrations facing the serrations of the first member, said transverse shank having notches on the side adjacent the jaws, a pin through said first member adjacent the said steel block adapted to be engaged by said notches, a flat spring carried by said shank adapted to bear on the edge of said opening to hold the notches in engagement with said pin.

1,688,730. SOUND REPRODUCER. JOSEPH ARCHIBALD MEARS, New York, N. Y., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 16, 1925. Serial No. 56,671. 10 Claims. (Cl. 181—32.)

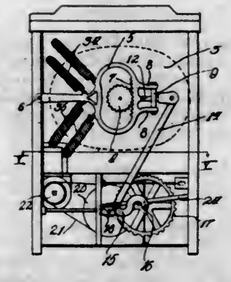


1. A sound reproducing diaphragm comprising a single sheet of plaited material folded into a double cone with the peripheral edges of the bases thereof formed integral with each other for enclosing a sound chamber between the surfaces of the double cone and means for adjusting the distance between the apexes of the cones for selecting a desired volume of sound chamber between said cones.

1,688,731. DEHYDRATION OF ALCOHOLS. SYLVAN R. MERLEY, Dover, N. J., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 22, 1925. Serial No. 77,134. 5 Claims. (Cl. 260—156.)

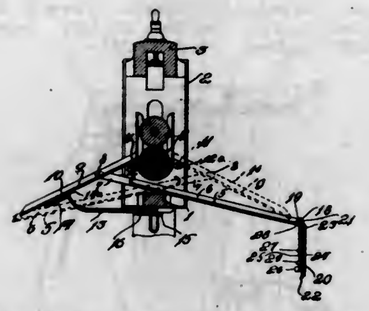
1. The method of dehydrating heavy secondary alcohol liquids containing small quantities of low boiling off-odor compounds comprising rectifying the liquid to be dehydrated with a substantially dry alcohol of lower boiling point than that of the alcohol to be dehydrated and forming a constant boiling point mixture with water and causing the temperature of initial distillation of the mixture to be higher than the boiling point of the liquid to be dehydrated.

1,688,732. WASHING MACHINE. CHARLES METREWITZ, Chicago, Ill. Filed Nov. 6, 1926. Serial No. 146,589. 2 Claims. (Cl. 74—14.)



2. In a washing machine, a tub, a gear secured coaxially on said tub, a rack for oscillating said gear, resilient means engaging said tub and said rack at points above and below the median line of said rack, a pair of arms on said rack, a slotted member connecting said arms, driving mechanism including a link extending through said slot and pivoted to said rack and a pair of opposed springs carried by said slotted member for acting upon opposite edges of said link.

1,688,733. DRAIN BOARD FOR WRINGERS. CHARLES METREWITZ, Chicago, Ill. Filed Apr. 7, 1927. Serial No. 181,629. 7 Claims. (Cl. 68—32.)

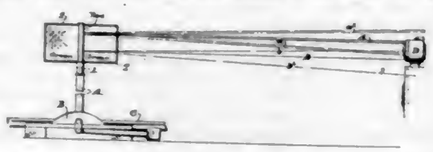


1. In combination, a delivery board, a drain board pivotally secured thereto, and a splash board attached to said drain board.

1,688,734. RAILWAY SIGNAL. CHARLES Z. MILLER, Fort Scott, Kans. Filed Aug. 9, 1926. Serial No. 128,314. 1 Claim. (Cl. 88—1)

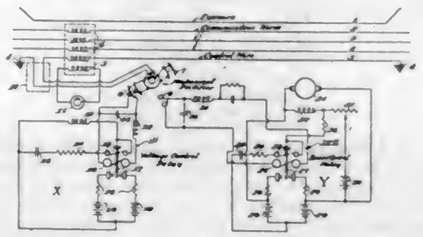
A signal comprising in combination, four casings arranged in pairs at right angles to each other, each pair of the casings being arranged in a single plane at right angles to the plane of the other pair, a reflector and a lens

mounted on each casing one in front of the other, both lenses of one pair of casings being of identical color, both lenses of the other pair of casings being of identical color but contrasting to the color of the lenses of the first mentioned pair, the reflectors and lenses of each pair of cas-



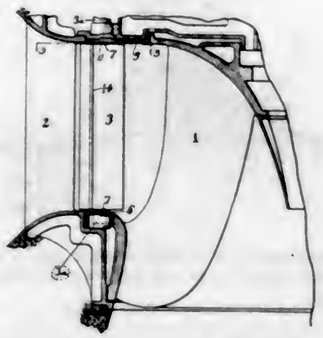
ings being located on the same side of the casings, whereby both reflectors and lenses of each pair will be faced in one direction, and means for supporting said casings whereby the latter may be swung about a common axis to present either pair of casings in operative position.

1,688,735. MEANS OF AND METHOD FOR NEUTRALIZING ALTERNATING CURRENTS. JOSEPH W. MILNOR, Maplewood, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1927. Serial No. 181,149. 22 Claims (Cl. 178—69.)



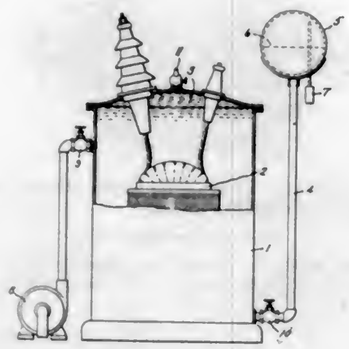
1. In a system for neutralizing alternating current induction, an alternating current generator designed to supply an equal and opposite neutralizing voltage, control means for regulating the value of the neutralizing voltage produced by said generator, and separate control means for regulating the speed of the said neutralizing generator.

1,688,736. HYDRAULIC TURBINE. LEWIS F. MOODY, Philadelphia, Pa. Filed Mar. 16, 1927. Serial No. 175,665. 19 Claims. (Cl. 253—122.)



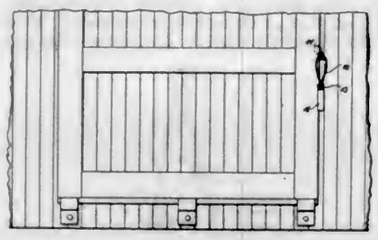
1. The combination with a turbine having pivoted gates and stationary members adjacent the ends thereof, of means for sealing the space adjacent to and extending a substantial distance along said gate ends including sealing means carried by said stationary members and adapted to engage said gates when in their closed position.

1,688,737. ELECTRICAL APPARATUS. WALTER S. MOODY, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 5, 1922. Serial No. 549,943. 2 Claims. (Cl. 220—85.)



1. The method of opening a casing filled with liquid in which electrical induction apparatus is immersed and having an expansion chamber containing liquid to a level higher than that in the casing, said expansion chamber communicating with the casing below the point at which the opening is to be made, whereby thermal expansion and contraction of the liquid is permitted, said method including the steps of causing liquid to be expelled from the casing into the expansion chamber to lower the level of the liquid within the casing below the opening to be made, preventing return of the expelled liquid, making an opening into the casing above the level of the liquid remaining therein, and subsequently closing said opening and permitting liquid to return by gravity from said expansion chamber to refill said casing.

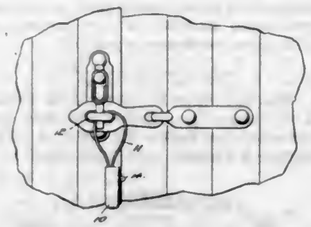
1,688,738. CAR SEAL. LOU Q. MOORE, Pueblo, Colo. Filed Aug. 19, 1926. Serial No. 130,261. 2 Claims. (Cl. 292—320.)



1. In a car seal embodying a flexible shackle, a locket, a hook member having an open side to permit ready attachment of the shackle thereto and adapted to be inserted in said locket, and oppositely disposed spring arms carried by said locket and hook member adapted to be sprung past each other and lock said hook member in the locket.

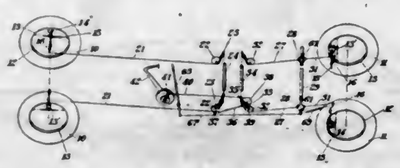
1,688,739. CAR SEAL. LOU Q. MOORE, Pueblo, Colo. Filed Nov. 12, 1926. Serial No. 147,999. 3 Claims. (Cl. 292—320.)

1. In a car seal, the combination of a locket having an aperture in one wall thereof, a shackle adapted to have both of its ends locked within said locket, a lug on said shackle remote from the end thereof adapted to project through the aperture from the locket and cooperating in-



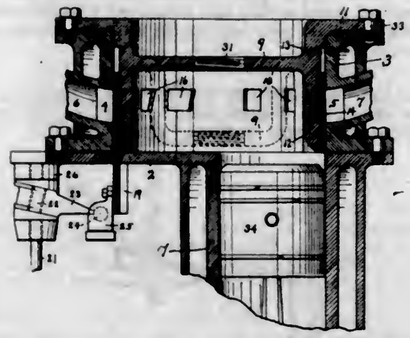
terlocking elements on the two ends of the shackle adapted to permanently engage each other when said ends of the shackle are within said locket.

1,688,740. BRAKE-OPERATING MECHANISM. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 5, 1923. Serial No. 636,969. 13 Claims. (Cl. 188—10.)



1. A brake mechanism comprising equalizing connections for each brake to all of the brakes and non-equalizing operating connections for part of the brakes, substantially as described.

1,688,741. SLEEVE-VALVE ENGINE. KASIMIR W. NAJDER, Royal Oak, Mich., assignor of one-fourth to Isaac S. Gellert, Detroit, Mich. Filed Oct. 18, 1926. Serial No. 142,452. 6 Claims. (Cl. 123—81.)



1. In an internal combustion engine, the combination of a cylinder having a radial flange at one end formed with a segmental slot, a compression chamber attached to said flange and being of greater diameter than said cylinder, a cylindrical sleeve-valve slidable in said chamber and having an extension projecting through said slot, and a head for said chamber.

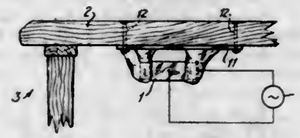
1,688,742. SPRING-LOCK KEY. FRANK NELSON, Newkirk, Okla. Filed May 3, 1927. Serial No. 188,560. 4 Claims. (Cl. 74—8.)

4. A cotter key of the character described, comprising a relatively long body of channel formation throughout, a spring tongue within the body and secured at one end thereto, the other end of the tongue projecting beyond one end of the body, a stop carried by and projecting from one longitudinal edge of the body adjacent the end from which



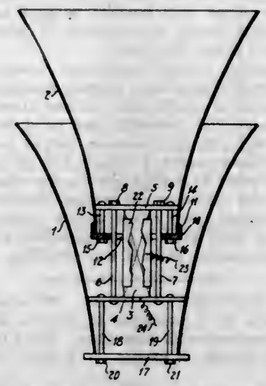
the spring tongue projects, and stop means carried by said tongue and in spaced relation to said first mentioned stop and normally projecting beyond the said longitudinal edge of the body.

1,688,743. PLANE-SURFACE PIEZO-ELECTRIC LOUD SPEAKER. ALEXANDER MCLEAN NICOLSON, New York, N. Y., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 11, 1927. Serial No. 174,486. 7 Claims. (Cl. 179—101.)



1. A loud speaker comprising a sound reproducing surface, a piezo-electric crystal device adapted to be vibrated by electrical oscillations of sound frequency, a metallic plate positioned parallel thereto, means connecting opposite ends of said crystal device with said plate, and a bearing surface on said plate arranged for connection with said sound reproducing surface.

1,688,744. MULTIPLE ACOUSTIC DEVICE. ALEXANDER MCLEAN NICOLSON, New York, N. Y., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed May 25, 1927. Serial No. 194,044. 10 Claims. (Cl. 179—110.)

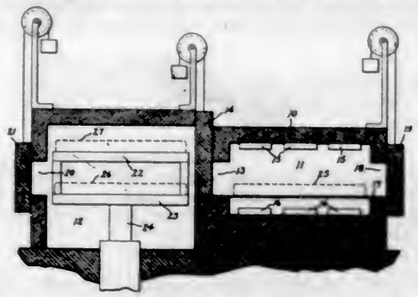


1. An acoustic device comprising a plurality of acoustic amplifiers and a single piezo-electric means for converting electrical oscillations into acoustic vibrations arranged to energize said amplifiers.

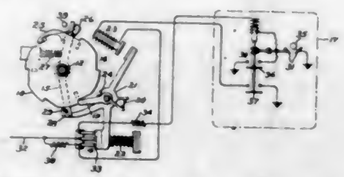
1,688,745. FURNACE. ALBERT N. OTIS, Schenectady, N. Y., and LOUIS F. WOOLSTON, Richmond Heights, Mo., assignors to General Electric Company, a Corporation of New York. Filed Mar. 12, 1927. Serial No. 174,864. 5 Claims. (Cl. 263—6.)

1. An annealing furnace comprising walls forming a heating chamber and a preheating chamber communicat-

ing therewith, heating means in said heating chamber, and a vertically movable member in said preheating chamber acting as a common support for a cold charge being preheated and a hot charge being cooled.



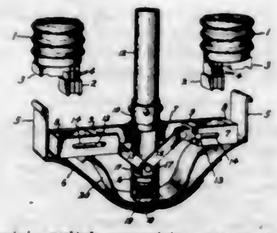
1,688,746. TURNSTILE-CONTROL MECHANISM. ROBERT J. PARSONS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 19, 1924. Serial No. 750,938. 10 Claims. (Cl. 39—3.)



2. A turnstile control mechanism comprising a rotatable member, mechanism for preventing rotation of said member in one direction and for permitting unrestrained rotation of the member in the other direction, means for releasing said mechanism to permit free rotation of said member in either direction, and means responsive to rotation of the member in said one direction for maintaining said mechanism released until after a predetermined angular movement of said member in said one direction, said last means being unresponsive to rotation of the member in the other direction.

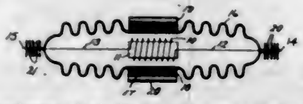
6. A turnstile control mechanism comprising a rotatable member, a pawl and ratchet mechanism for preventing rotation of said member in one direction, electroresponsive means for releasing said pawl to permit free rotation of said rotatable member, switch mechanism associated with said pawl and arranged to be operated upon the release thereof to render said electroresponsive means ineffective, and latching mechanism controlled by said rotatable member for independently maintaining said pawl released until after a predetermined angular movement of said member in said one direction.

1,688,747. ELECTRIC SWITCH. WILLIAM E. PAUL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 10, 1925. Serial No. 61,760. 5 Claims. (Cl. 200—166.)



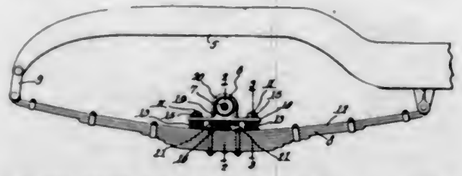
1. An electric switch comprising relatively movable cooperating contacts, means for yieldably supporting one of said contacts, the other of said contacts having relatively movable parts adapted to clamp the yieldable contact, means for moving the contacts relatively to closed circuit position and means operated by a continued movement in the same direction of said means for moving said movable parts to clamping position.

1,688,748. TRANSFORMER. WILLIAM E. PAUL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 9, 1928. Serial No. 253,173. 3 Claims. (Cl. 175—356.)



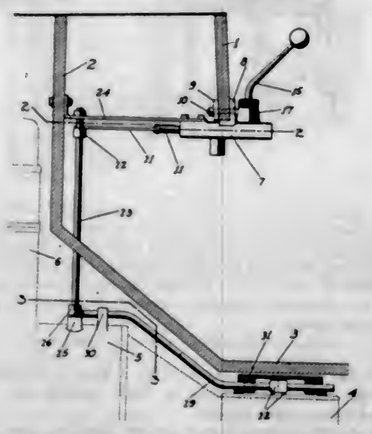
1. A transformer including a primary winding, a closed casing having a high vacuum surrounding said winding, and a secondary winding surrounding said casing and primary winding.

1,688,749. SPRING. CHARLES F. ROSS, Garrett, Ind. Filed Aug. 29, 1925. Serial No. 53,386. 1 Claim. (Cl. 267—28.)



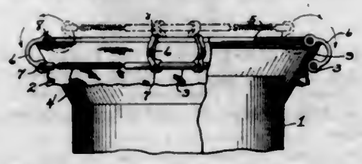
In combination with a spring and the rear axle housing of a motor vehicle, an elongated plate, a supporting block extending upwardly from the plate and formed integral therewith, said block having a curved upper surface to receive the axle housing, an inverted U bolt embracing a portion of the axle housing and extending through the plate, bolts extending upwardly from the spring and passing through the plate adjacent to the ends thereof, coiled spring surrounding the bolts and engaging the plates and vehicle spring, coiled springs surrounding the first mentioned coiled springs and contacting with the vehicle spring and plate, and nuts on the bolts for securing the plates in position.

1,688,750. GEAR-SHIFT MECHANISM. BENJAMIN F. SCHMIDT, Los Angeles, Calif. Filed Jan. 11, 1927. Serial No. 160,365. 6 Claims. (Cl. 74—39.)



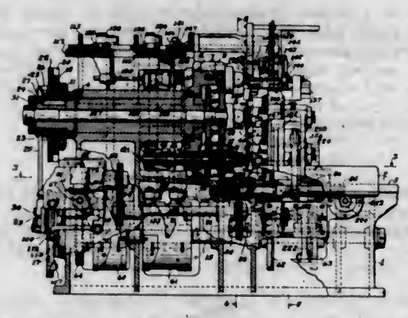
1. A gear shift mechanism for a motor vehicle including a pair of transversely spaced rods extending longitudinally of the vehicle, a shifting lever arranged in connection with the rods to selectively move the same longitudinally, a casing in which said rods and lever are mounted, means for securing said casing in direct connection with the dashboard of the vehicle, a pair of vertical and transversely spaced shafts mounted ahead of the casing, radial arms projecting transversely from the shafts in substantial horizontal alinement with the rods, connections between said arms and rods, and connections between said arms and the gear shift forks of the transmission mechanism of the vehicle to cause the latter to move in the same direction as the corresponding rods with the movement of said rods.

1,688,751. STRAINER HOLDER. EMIL R. SCHNITGER, Watertown, Wis., assignor of one-half to Charles A. Kading, Watertown, Wis. Filed Apr. 2, 1928. Serial No. 266,859. 5 Claims. (Cl. 24—256.)



1. A clamp or holder comprising a ring, arms swingable about the ring, and an elastic annulus carried by the portions of the arms remote from the ring.

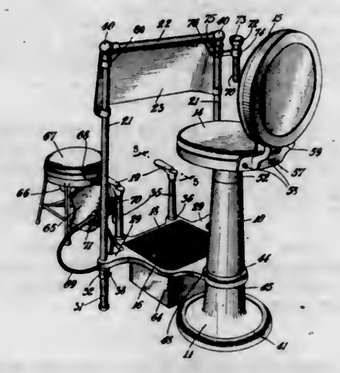
1,688,752. THREADING MACHINE. CARL SCHRAMM, West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed July 31, 1924. Serial No. 729,414. 4 Claims. (Cl. 10—89.)



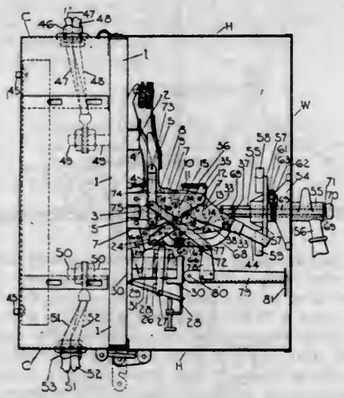
1. In a threading machine, the combination with a blank carrying spindle, a plurality of chaser members for engaging the blank carried by said spindle, and means for effecting relative movement between the blank carrying spindle and the chaser members longitudinally with respect to the spindle, of resilient means exerting a force tending to move the chaser members away from the blank carried by the spindle in a direction perpendicular to the blank axis, automatic means for moving the chaser members towards the blank nearly to the operative position prior to a cutting operation, and cam locking means for forcing the chaser members into operative position to engage the blank and for holding the chaser members in such position.

1,688,753. SHOE-SHINING INSTALLATION. HERMAN E. SCHULSE, New York, N. Y., assignor to H. E. Schulse Inc., a Corporation of New York. Filed Oct. 29, 1927. Serial No. 229,609. 14 Claims. (Cl. 15—265.)

6. A shoe shining installation including a platform above the floor, foot rests rising therefrom, a pedestal secured to the floor, supporting a seat at the upper end thereof, and sustaining said platform, said seat being accessible for mounting by stepping upon said platform from therebetween and said foot rests, said platform having sockets at the sides thereof, posts extending into said sockets and tightly retained therein, and a hand rail connecting the upper ends of said posts.



1,688,754. SWITCHING APPARATUS. WILLIAM M. SCOTT, Tredyffrin Township, Chester County, and JAMES H. WYATT, Kirklyn, Pa.; said Wyatt assignor to said Scott. Filed July 28, 1923. Serial No. 654,351. 46 Claims. (Cl. 200—29.)



1. Switching apparatus comprising a switch, a nonclosable automatic circuit breaker in series with said switch, and resetting mechanism common to them for resetting them in succession.

1,688,755. PROCESS OF PRODUCING VULCANIZED RUBBER AND PRODUCT THEREOF. WINFIELD SCOTT, Akron, Ohio, assignor to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Filed Feb. 17, 1925. Serial No. 9,796. 16 Claims. (Cl. 18—53.)

1. The process of producing vulcanized rubber possessing age resistant characteristics which comprises heating rubber and sulfur in the presence of a compound obtained by reacting guanidine and a hydroxy-derivative of benzene.

1,688,756. RUBBER COMPOSITION AND PROCESS OF MANUFACTURING SAME. WINFIELD SCOTT, Akron, Ohio, assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 8, 1927. Serial No. 182,186. 2 Claims. (Cl. 18—53.)

1. The process of manufacturing vulcanized rubber which comprises heating a mixture of rubber and sulphur in the presence of p-di-methyl-amino-phenyl-p-phenetidyl guanidine.

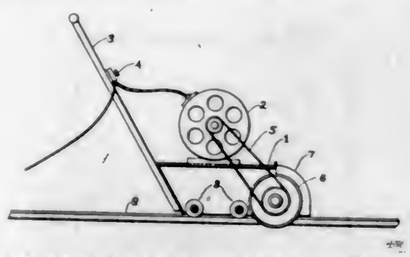
1,688,757. PROCESS OF MANUFACTURING VULCANIZED RUBBER AND PRODUCT THEREOF. WINFIELD SCOTT, Akron, Ohio, assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 8, 1927. Serial No. 182,187. 2 Claims. (Cl. 18—53.)

1. The process of manufacturing vulcanized rubber which comprises heating a mixture of rubber and sulphur in the presence of a small proportion of p-di-methyl-amino-di-phenyl-guanidine.

1,688,758. MANUFACTURE OF VULCANIZED RUBBER AND PRODUCT THEREOF. WINFIELD SCOTT, Akron, Ohio, assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 8, 1927. Serial No. 182,188. 2 Claims. (Cl. 18—53.)

1. The process of manufacturing vulcanized rubber which comprises heating a mixture of rubber and sulphur in the presence of a small proportion of p-di-methyl-amino-phenyl-o-tolyl-guanidine.

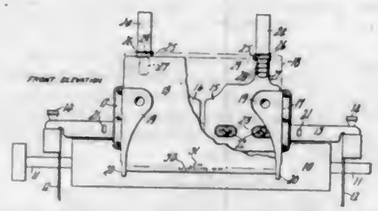
1,688,759. FLOOR-SCRAPING MACHINE. JAMES THOMAS SIMPSON, Macon, Ga. Filed July 20, 1927. Serial No. 207,182. 2 Claims. (Cl. 144—117.)



1. A floor-surfacing device comprising a body adapted to be propelled along a floor, a motor on said body, a cutter-drum mounted in said body in such relation thereto as to operate upon a floor over which the device is to be propelled, power-transmitting means connecting said motor and said drum whereby said motor drives said drum, a spiral cutting blade on said drum set at a cutting-angle of approximately twenty-two and one-half degrees therewith, and means securing said blade in said relation to said drum, said means comprising a cap plate member extending parallel on the exterior surface of the spiral cutting blade, a fillet member, said fillet member being substantially parallel to said cap plate member and located on the interior surface of said cutting blade, and a bolted means securing said cap plate member, spiral cutting blade and fillet member together and as for the purpose set forth.

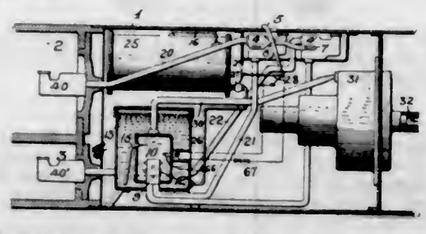
1,688,760. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 10, 1925. Serial No. 61,652. 5 Claims. (Cl. 197—135.)

1. In a typewriting machine, the combination with a platen, of a work-table for supporting a work-piece in printing position before the platen, a gage-support extending upwardly from the work-table, adjustable gaging means mounted on the gage-support, said adjustable gaging means including a forwardly-extending abutment for



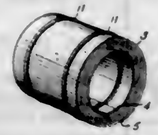
the upper edge of the work-piece, and a depending member having line-space-gaging means with which the leading edge of the work-piece may be selectively aligned.

1,688,761. WAKELESS TORPEDO. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del., a Corporation of Delaware. Filed Dec. 1, 1921. Serial No. 519,053. 20 Claims. (Cl. 60—45.)



1. In a torpedo, the combination with an oxygen flask, a hydrogen flask, and an engine, of a combustion chamber where said gases are burned under reduced pressure, means for spraying water into said chamber, and a connection from said chamber for leading the steam produced by the combustion of the hydrogen and oxygen and by the evaporation of the water to the engine.

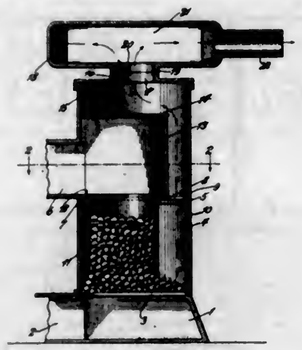
1,688,762. RING MEMBER AND METHOD OF MAKING SAME. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 29, 1926. Serial No. 112,715. 5 Claims. (Cl. 29—156.)



1. The method of forming a built-up ring member from a sheet metal strip which comprises winding up the strip into a ring having a plurality of turns, securing together portions thereof to prevent unwinding of the ring thus formed and expanding the ring beyond the elastic limit of the material thereof.

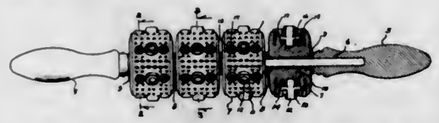
1,688,763. FURNACE. HENRY TIELKEMEYER, St. Louis, Mo. Filed Dec. 14, 1927. Serial No. 239,865. 2 Claims. (Cl. 126—103.)

1. A furnace comprising an enclosure having a lateral fuel inlet passage and having an outlet passage through its upper end, a grate within said enclosure below said fuel inlet passage, a supporting member mounted in said enclosure below the plane of the lower end of said inlet passage and comprising an arcuate portion concentric with said enclosure, and an integrally united ring portion formed eccentrically with respect to said arcuate portion and extending approximately to the wall of said enclosure below said inlet passage, a fire pot extending downwardly through and



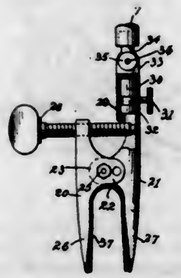
removably supported by said ring and terminating at a distance above said grate, a separate arcuate wall seated upon said ring and having its ends contacting with the wall of said enclosure laterally from the sides of said inlet passage, and a wall seated upon the upper end of said arcuate wall below said outlet passage.

1,688,764. SELF-MASSAGE ROLLER. BRUNO TRANKOWSKI and GUSTAV GRODD, Bridgeport, Conn. Filed Oct. 18, 1927. Serial No. 226,854. 4 Claims. (Cl. 128—57.)



1. A massage instrument comprising a supporting spindle provided with handles, rolls rotatably supported thereon, a series of pressing bowls the inlets of which are formed in the periphery of the rolls and having raised annular lips around their outer ends, a series of sucking bowls also arranged in the face of the rolls and having projected annular lip portions, and ports connecting the pressing bowls and the sucking bowls.

1,688,765. HOLDER FOR NURSING BOTTLES. MANUEL VERAS, Brooklyn, N. Y. Filed Nov. 10, 1926. Serial No. 147,541. 1 Claim. (Cl. 248—65.)



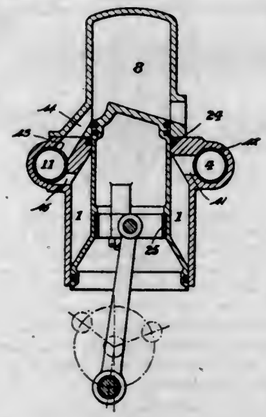
In a nursing bottle holder, the combination with a rod carrying a bottle clamp, of a clamp for mounting the holder upon a support consisting of a pair of levers, one end portion of each lever being arranged as a clamping jaw and each lever having a pair of parallel perforated ears extending laterally from the opposite sides and intermediate the ends with the ears of one lever adapted for overlapping engagement with the ears of the other lever, a bolt engaged in the perforations of the overlapped lever ears to pivotally connect the levers, a thumb screw threaded into an opening at the end of one lever opposite the jaw to have adjustment in a direction transverse to the pivotal connection of the levers with the end of the screw adapted to abut the end of the other lever opposite the jaw to position the lever jaws relative to each other for securing the clamp in support engaging position, and the end of the other lever opposite the jaw end arranged with an extended tubular portion, and a coupling member having pivotal connection with the bottle clamp carrying rod mounted in the tubular extension of the lever end for adjustment about the axis of said tubular extension.

1,688,766. TOY CLOCK. SIDNEY C. VINCENT, Baltimore, Md. Filed Nov. 11, 1925. Serial No. 68,384. 2 Claims. (Cl. 46—46.)



1. A toy clock comprising a casing formed of two cup-shaped sections, a bell-clapper formed of a single piece of metal and pivoted at its lower end to one of the sections, a crank member supported in said sections and having hand-attaching means at one end, and having its other end bent to form an exterior crank handle, said crank member being formed within the casing with a plate like flattened portion, whose edges are adapted to engage alternately and directly, portions of the bell-clapper to cause the same to be oscillated when the crank is turned.

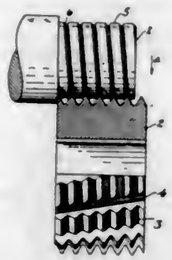
1,688,767. INTERNAL-COMBUSTION ENGINE. CECIL WEBB, Lisburn, Ireland. Filed June 12, 1922, Serial No. 567,651, and in Great Britain June 24, 1921. 4 Claims. (Cl. 123—59.)



3. An internal combustion engine having a plurality of engine units arranged in groups of three, each engine unit including a differential cylinder and piston, a tubular rotary inlet valve for each group, a tubular rotary transfer valve for each group, a single opening in said transfer valve for

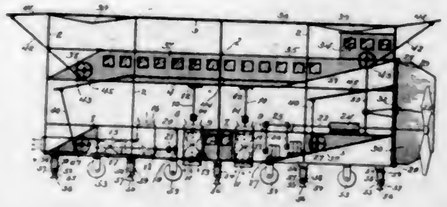
each unit, a housing for said transfer valve and, in each unit, two passages both terminating abreast the corresponding opening in the transfer valve from which they lead to the corresponding pump cylinder and working cylinder, respectively, each opening in the transfer valve cooperating with the two corresponding passages to receive primarily compressed charges from the pump cylinder of one unit and to pass them along the transfer valve to the working cylinder of another unit.

1,688,768. METHOD OF HOBBING THREADS. ERNEST WILDHABER, Brooklyn, N. Y., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 22, 1923. Serial No. 626,848. 9 Claims. (Cl. 10—154.)



3. The method of forming a thread on a blank, which consists in rotating a hob and a blank in engagement with each other, in effecting an annular advance of the blank with respect to the hob, and in radially feeding the blank toward the hob for cutting one side of the blank thread and for feeding the blank away from the hob for cutting the opposite side of the hob thread, the finishing of the blank thread being effected during the large part of the feeding movements, the longitudinal positions of the hob and the blank being maintained unchanged with respect to each other and the feeding movements being effected in timed relation to the angular advance of the blank.

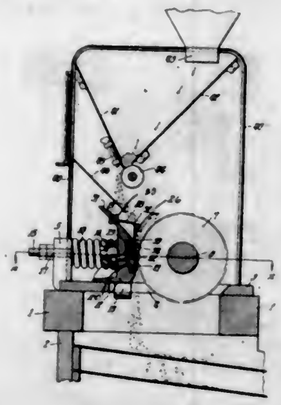
1,688,769. AIRSHIP. ISRAEL WILLIAMS, Lima, Ohio. Filed Oct. 13, 1925. Serial No. 62,219. 1 Claim. (Cl. 244—18.)



An air ship comprising a frame having a plurality of decks, open-ended vertical tubes extending through a lower deck, shafts extending axially through said tubes and having their upper ends exerting thrust upon an upper deck, screw propellers on said shafts within the tubes, tubes extending longitudinally upon the lower deck and having their front ends upturned, shafts disposed axially within the tubes and having their front ends exerting thrust against a fixed element on the deck, and screw propellers on said shafts between the ends of the tubes.

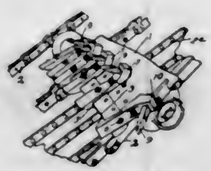
1,688,770. CEREAL-CUTTING MACHINE. HORACE G. WOODHEAD, Chicago, Ill., assignor to B. F. Gump Co., Chicago, Ill., a Corporation of Illinois. Filed July 10, 1922. Serial No. 573,858. 10 Claims. (Cl. 83—14.)

2. In a cereal cutting machine; a reduction roll, a head movably adjustable relatively to said roll, a cutting device on said head to co-act with said roll, and a throat piece on said head adapted to co-act with said roll to form a progressively narrowed approach to the operative area formed by



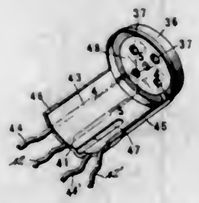
said roll and said cutting device, the lower edge of said throat piece forming a stop against reverse movement of material passing the same.

1,688,771. DIGGING IMPLEMENT. LEWIS EDWARD YOUNIS, La Fayette, Calif. Filed Dec. 18, 1926. Serial No. 155,603. 6 Claims. (Cl. 37—141.)



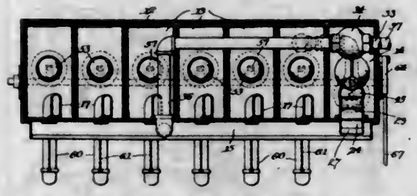
1. In a digging implement, the combination of a receptacle having a digging edge; tooth carriers on the underside of the receptacle; and a tooth at the rear of the edge secured to the carrier, said tooth being downwardly and forwardly inclined.

1,688,772. RADIO SET CONNECTION. MILTON ALDEN, Springfield, Mass. Filed Oct. 5, 1926. Serial No. 139,657. 10 Claims. (Cl. 173—344.)



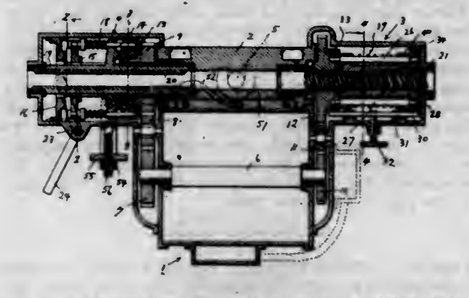
1. A vacuum tube connector comprising an insulating base having a cylindrical flange and adapted to receive a vacuum tube base and having four openings for the tube prongs and having outer tubular contacts extending from two of said openings, inner contacts within said tubular contacts but insulated therefrom and conductors in the flange of said socket connected to said outer and inner contacts respectively.

1,688,773. MEASURING-CAN FILLER. JACOB G. ALDINGER, York, Pa., assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa., a Corporation of Delaware. Filed June 19, 1925. Serial No. 38,320. 10 Claims. (Cl. 226—105.)



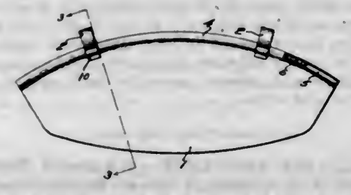
1. In a liquid measuring device the combination of a manifold; a plurality of measuring chambers; individually adjustable overflows between said manifold and said chambers; means for establishing a high liquid level in said manifold to permit filling of said chambers by overflow from said manifold; and means for establishing a low level in said manifold for fixing the levels in said chambers by over-flow back to said manifold.

1,688,774. DRILLING APPARATUS. BENJAMIN T. ANFIELD, Boulder, Colo. Filed Jan. 25, 1927. Serial No. 163,436. 2 Claims. (Cl. 255—47.)



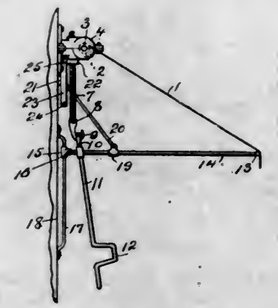
1. In a structure of the class described, a casing, gearing train including a gear provided with an outstanding central hub, a ring rotatably mounted in said casing and spaced from said hub, a split bushing interposed between said ring and hub, a drill screw extending thru the said gear, bushing and ring, said bushing being provided with screw threads connected with the threads of said screw, connecting pins between the ring and hub of said gear, the sections of said bushing being rockably mounted on said pins.

1,688,775. EYE SHIELD. GEORGE A. BAKER, Philadelphia, Pa. Filed Sept. 22, 1926. Serial No. 137,108. 2 Claims. (Cl. 2—13.)



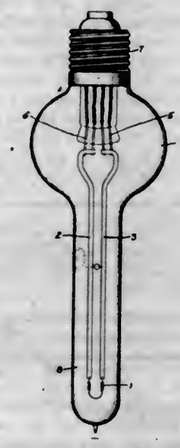
1. An eye shield, bendable to fit the rim of an eye glass and capable of being flattened when not in use, including a pliable guard having its under surface opaque and capable of absorbing light rays, a soft wire secured along one edge of the guard to form a bead, and clips slidable on the bead for engaging the rim of the eye glass.

1,688,776. AWNING. EARL F. BARBER, Kansas City, Kans. Filed Oct. 23, 1925. Serial No. 64,348. 1 Claim. (Cl. 156—44.)



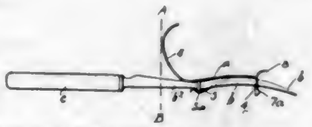
In an awning, the combination with a drum on which an awning sheet is adapted to be wound, a support therefor on which the drum is rotatable, a screw, rotatable on said support and means actuated by the screw for rotating the drum, of a guiding member parallel with said screw, the latter having its threaded part projecting beyond the guiding member, and a nut fitted for travel on said screw and having sliding engagement with said guiding member and arranged to travel on said screw out of engagement with said guiding member, the latter having means for holding the nut from turning.

1,688,777. GAS-FILLED ELECTRIC INCANDESCENT LAMP. JAN BERGMANS and THEODORUS JOSEPHUS JACOBUS ALPHONSUS MANDERS, Eindhoven, Netherlands, assignors to General Electric Company, a Corporation of New York. Filed Nov. 4, 1927, Serial No. 231,130, and in the Netherlands Dec. 21, 1926. 5 Claims. (Cl. 176—16.)



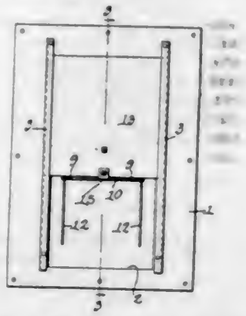
1. A gas filled incandescent electric lamp comprising a pair of parallel leads proportioned to be heated by the normal current flowing through them to a temperature sufficient to cause a flow of the adjoining gas when the lamp is lighted, a concentrated filament on the end of said leads, and a sealed tubular bulb containing inert gas and enclosing said leads and said filament with one end adjacent said filament and of a bore such that when the lamp is lighted currents of gas free from eddies flow along said leads and along said bulb walls with a velocity so great that blackening of the bulb walls in the vicinity of the filament is substantially absent.

1,688,778. CARVING FORK. HUBERT BERRY, Ottery St. Mary, England. Filed Feb. 12, 1927, Serial No. 167,655, and in Great Britain Feb. 17, 1926. 4 Claims. (Cl. 30—5.)



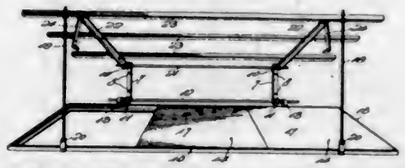
1. In a carving fork projecting arms arranged to extend laterally from the prongs of said fork and to have a sharpened projection at or near each of the extremites of said arms as well as in a central position between said extremities.

1,688,779. TRAP NEST. HARVEY L. HOLINGER, Mountain Grove, Mo., assignor of one-half to T. W. Noland, Mountain Grove, Mo. Filed June 16, 1927. Serial No. 199,308. 1 Claim. (Cl. 119—49.)



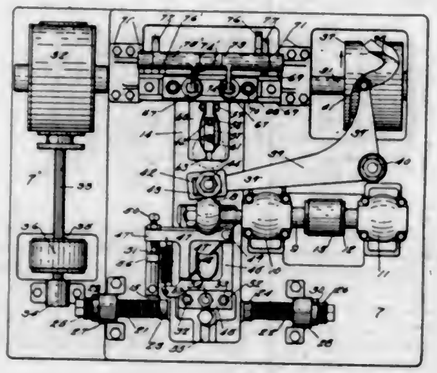
The combination with a wall of a trap nest having a door opening, and a sliding door, of a lug extending inwardly from the door having a lower support engaging face and an upper deflecting face, adjustable bearing members connected to the wall, and a trigger suspended from said bearing member and mounted to swing toward and from the door opening, said trigger including means for engagement with the bearing members, a rod connecting said means and normally positioned in the path of the lug to be deflected inwardly thereby when the door is raised and to be engaged by the lug to support the door when open, and offset depending fingers connected to said means.

1,688,780. ROOST AND DROPPING BOARD ASSEMBLY. HERBERT G. BRAHMAN, Hillsdale, Mich. Filed June 14, 1926, Serial No. 115,965. Renewed June 18, 1928. 4 Claims. (Cl. 119—22.)



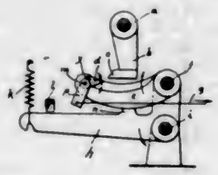
1. In a roost and dropping board assemblage, a plurality of horizontally spaced brackets for stationary mounting on a vertical support, said brackets comprising vertical bars having on their opposite ends upper and lower hooks, pivot means extending across and secured to the rear portion of the dropping board engaged with the lower hooks, supporting means for the roosts having pivot means connecting said supporting means and engaged with the upper hooks, and means for holding the roosts and dropping board in position for use, and for permitting swinging thereof about said pivot means.

1,688,781. MACHINE FOR CUTTING CONCAVE SURFACES. JAMES E. BRANSON, Cincinnati, Ohio. Filed July 31, 1925. Serial No. 47,186. 7 Claims. (Cl. 12—46.)



1. In a machine for cutting concave surfaces, a main frame, a pair of bearing blocks attached to the frame and extending upwardly therefrom, a shaft in the bearing blocks, a rotary forming cutter on the shaft and extending thereon over the frame, a work slide beneath the cutter, the slide adapted to be reciprocated in a direction substantially at a right angle to the axis of the cutter shaft, work holding means disposed in one end of the slide, a master cam on the end of the slide opposite the work holding means, a carrier for the slide, the carrier adapted to guide the slide in a direction normally at a right angle to the axis of the cutter shaft, the carrier pivotally mounted on the frame, and means adapted to yieldingly retain the carrier with the median line of the carrier at a right angle to the axis of the cutter shaft.

1,688,782. STOPPING DEVICE FOR LOOMS. SAVERIO BACCHER, Como, Italy. Filed Dec. 20, 1927, Serial No. 241,401, and in Germany Oct. 16, 1926. 2 Claims. (Cl. 188—69.)

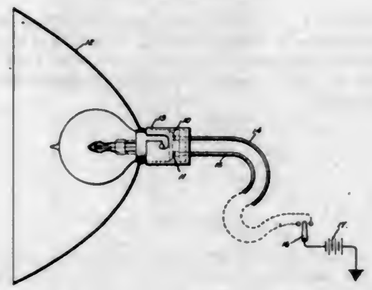


1. In a stopping device for looms, the combination of a trigger fixed upon the driving shaft of a loom, with a catch-lever mounted resiliently at one of its ends, a catch carried by the other end of said lever, said catch being adapted to erect itself when coming into slight engagement with said trigger, thereby more effectively engaging said catch with said trigger.

1,688,783. ELECTRIC LAMP. WILLIAM R. BURROWS, Newark, N. J., assignor to General Electric Company, a Corporation of New York. Filed Nov. 1, 1921. Serial No. 512,152. 9 Claims. (Cl. 240—41.)

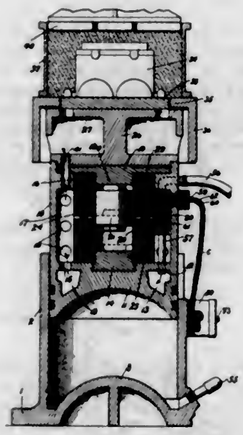
1. An incandescent lamp comprising a filament so curved that its light center is located at a distance from the middle point of the filament and in the plane of the filament between its sides, and a second filament mounted

to extend through the plane of the curved filament with its vertex or middle point spaced away from the vertex



or middle point of the curved filament sufficiently to make the light centers of the two filaments coincide.

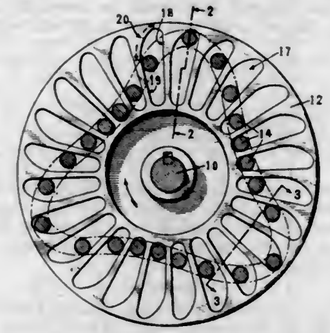
1,688,784. MOLDING APPARATUS. DONALD J. CAMPBELL, Muskegon Heights, Mich. Filed Feb. 4, 1925, Serial No. 6,728. Renewed Aug. 20, 1928. 14 Claims. (Cl. 22—45.)



1. In molding apparatus, a vertical support, a table at the upper end of the support on which a pattern and a flask around the pattern may be carried, an annular solenoid winding fixed to said support and a vibrating body surrounded by said winding and adapted to be raised when the winding is energized and dropped when the winding is de-energized, the said body striking the said support at each extreme of its movement.

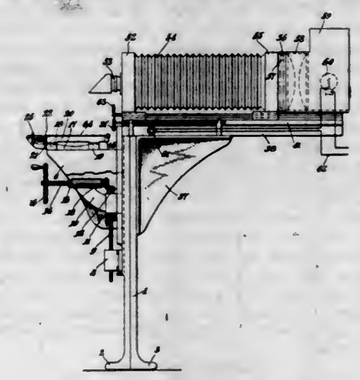
1,688,785. POWER TRANSMISSION. HENRY B. CHALMERS, New York, N. Y. Filed May 24, 1927. Serial No. 193,875. 4 Claims. (Cl. 74—14.)

1. An automatically variable ratio power transmission having a driven member carrying a cam of substantially polygonal shape having its sides concaved inwardly at intervals and a driving member consisting of a disc having radial slots and roller masses engaging both the cam of the driven member and the slots of the driving member, so that the acceleration and deceleration of said masses



will at substantially all times exert a uni-directional torque variable-ratio power.

1,688,786. STEP AND REPEAT MACHINE. OSCAR CHOUINARD, New York, N. Y., assignor to Hunter Wykes, New York, N. Y. Filed Mar. 30, 1925. Serial No. 19,266. 9 Claims. (Cl. 88—24.)

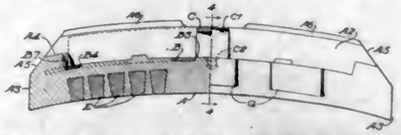


1. In a machine of the character described, the combination of means for carrying a sensitized surface, a projecting camera adapted to project an image from an image bearing means movable with said camera onto said sensitized surface, a stationary part and a relatively movable part adapted to be moved to predetermined positions, said projecting camera together with said image bearing means being attached to and movable with said movable part, a registration means detachably carried by one of said parts and provided with a plurality of locking ports spaced to provide for a series of given predetermined successive settings of said movable part, a locking means carried by the other of said parts and adapted to be moved into locking engagement with successive locking portions of said registration means, and means to move said movable part into an approximate predetermined position where said locking means may engage one of said locking portions on said registration means.

1,688,787. METHOD OF MAKING BRAKE SHOES. CHARLES COBB, Jr., Marshall, Tex. Original application filed May 18, 1926, Serial No. 109,900. Divided and this application filed Mar. 4, 1927. Serial No. 172,772. 5 Claims. (Cl. 22—203.)

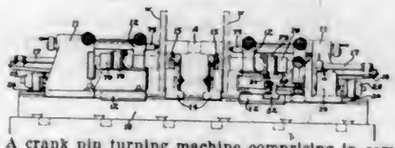
1. The herein described method of forming a brake shoe, which method consists in forming a lower mold section having bottom, side and end faces conforming to the cast body of the shoe, and forming an upper mold

section in which is a plate metal back having a group of apertures in a line parallel to the length of the shoe and said mold section being formed with a space above and along and adjacent said group of apertures, and then pouring molten metal into said mold, the metal filling



the space in the mold below said back and rising through said apertures and into the space above and adjacent said apertures whereby a metal body is formed above said group to connect the metal extending through the apertures of said group.

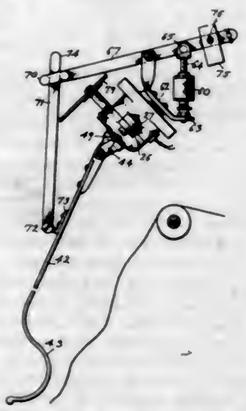
1,688,788. QUARTERING AND CRANK-PIN-TURNING MACHINE. LYNDON C. COLE, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 8, 1926. Serial No. 100,674. 14 Claims. (Cl. 29—27.)



1. A crank pin turning machine comprising in combination, a base, headstocks thereon having tool rotating and feeding means, supplementary headstocks on said base, work centering means on said headstocks, and work centering and adjustable tool guiding means on said supplementary headstocks.

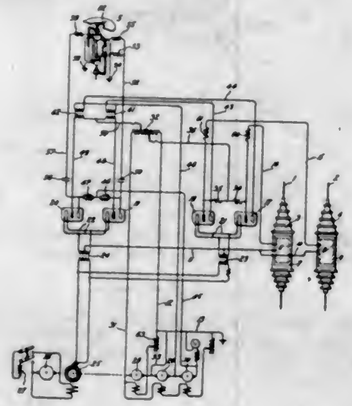
14. A quartering and crank pin turning machine for locomotive driving sets comprising in combination, a base, a headstock thereon, work supporting means on said headstock, a saddle adjustably mounted on an oblique surface of said headstock, a tool supporting bar rotatably mounted in said saddle, a tool mounted on one end of said bar, a tool head within which said tool operates, an adjustable guide for said tool head having ways thereon for said tool head extending parallelly to the bar, and means to axially advance said bar while said bar is rotating.

1,688,789. SHEET DETECTOR. STANLEY A. COMISKEY, Seattle, Wash., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 20, 1924. Serial No. 750,983. 17 Claims. (Cl. 192—127.)



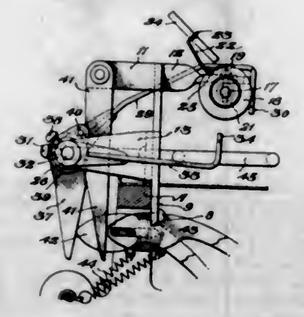
3. In a web handling mechanism, the combination of a detector member, an electric switch thrown by the member to cause the stoppage of the machine, and a fluid pressure device associated with the member and acting to move the member to cause the return of the switch to normal operative position.

1,688,790. SYNCHRONISM-INDICATING MEANS. ELLSWORTH D. COOK, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 6, 1927. Serial No. 196,800. 5 Claims. (Cl. 172—245.)



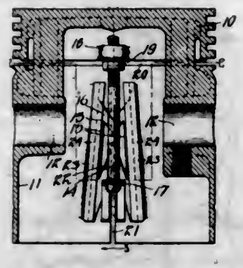
1. In a means for indicating synchronism between voltages on a plurality of conductors, the combination with a synchronoscope, of capacitance transformers associated with each of said conductors and power amplifying means associated with each of said capacitance transformers, said amplifying means being adapted to supply to said synchronoscope voltages bearing a substantially constant phase relation to the voltage on said transformers.

1,688,791. KNITTING MACHINE. OWEN L. RIMEL, Harrisburg, Pa. Filed Feb. 20, 1926. Serial No. 89,656. 3 Claims. (Cl. 66—137.)



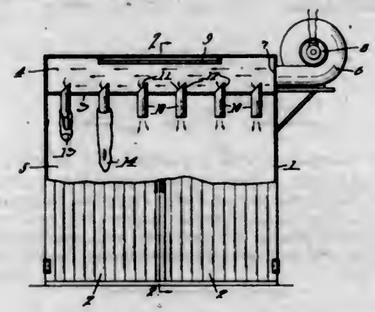
1. In a knitting-machine, the combination, with reversibly-shiftable fingers controlling the position of yarn passing to the needles, of mechanism for shifting said fingers, whereby reverse plating is effected, comprising a rock-shaft, an arm and eccentric part on said shaft, a pivotally-mounted member swingable by said eccentric part, springs holding said fingers against said arm and member, means controlled by said shaft whereby tension on yarn is altered simultaneously with the shifting of said fingers, and means whereby said shaft is rocked.

1,688,792. ADJUSTABLE GAS-ENGINE PISTON. WALTER L. SCHOENGARTH, Hurley, Wis. Filed Apr. 9, 1927. Serial No. 182,396. 5 Claims. (Cl. 74—108.)



1. A piston comprising a head and skirt, the skirt being formed in piece with the head but substantially severed therefrom by a horizontal slot extending for the greater part of the circumference of the piston, said skirt being formed with another slot extending longitudinally thereof from the transverse slot to the bottom of the skirt and having bearing surfaces formed on each side thereof and extending substantially the length of the skirt, and, curved adjusting wedge mounted between said bearing surfaces, substantially as set forth.

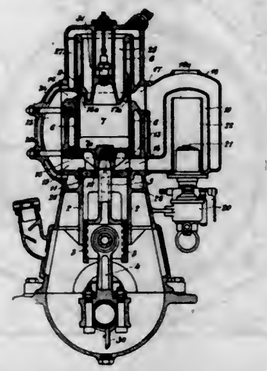
1,688,793. SHOE DRIER. WILLIAM C. SCHRENKEISEN, Mount Vernon, N. Y., assignor to Hill Laundry Equipment Co. Inc., Long Island City, N. Y., a Corporation of New York. Filed Oct. 27, 1927. Serial No. 229,212. 4 Claims. (Cl. 34—26.)



4. A shoe drier comprising a cabinet having walls enclosing it on all sides, a wall adjacent to the top thereof dividing the interior of the cabinet formed by said walls into an upper air header and an enclosed drying compartment therebeneath, an air blower communicating with one end of said header, an air heater in said header, a duct passing through said wall into the drying compartment, and means on said duct for suspending in said enclosed drying compartment a shoe to be dried, whereby the duct is adapted to direct heated air into the interior of the shoe from which it escapes into the compartment.

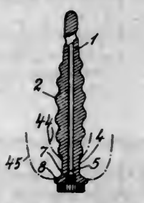
1,688,794. TWO-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE. ARTHUR OSKAR LEONARD WENNERBY, Gottenburg, Sweden. Filed Aug. 4, 1927. Serial No. 210,682, and in Sweden July 20, 1926. 2 Claims. (Cl. 123—74.)

2. In an engine of the two-cycle rear compression cylinder type, a combustion cylinder having a reentrant head, a compression cylinder intermediate the combustion cylinder and the crank, a working piston in said cylinders, having a cylindrical flange defining with its upper face and with said reentrant head a combustion chamber, said flange being ported and constituting a valve for controlling intake and exhaust ports in said combustion cylinder adjacent said reentrant head, the lower face of said piston acting as a compression piston in said compression cylinder, the latter being in communication with the intake port of said combustion cylinder, a jacket casing forming a mixing chamber, a carburettor connected thereto, said



mixing chamber being in constant intercommunication with said compression chamber, whereby the mixture within said casing is alternately rarefied and densified for drawing upon the carburettor, and effecting intimate mixture of the fuel thus educted from the carburettor, and means for passing the heated exhaust products of said combustion cylinder through the jacket of said casing.

1,688,795. TEAT CANNULA. NILS AAS, Skarnes, Norway. Filed Sept. 3, 1927, Serial No. 217,472, and in Germany Dec. 1, 1926. 3 Claims. (Cl. 128—348.)



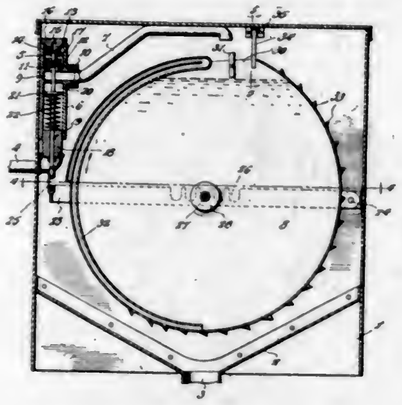
1. A teat cannula having a tubular stem, a narrow collar on the lower open end of said stem and a thickened portion on the middle of said stem tapering towards both ends and having a comparatively steep surface at the end facing said narrow collar, the said steep surface being provided with a groove so as to form an annular convolution with a rounded top.

1,688,796. OIL HEATER. WILLIAM E. BAKER, Erie, Pa. Filed July 31, 1924. Serial No. 729,381. 2 Claims. (Cl. 219—38.)



1. An oil heater comprising a vaporizing tube, a sleeve within said tube and spaced therefrom, a fuel inlet between said tube and sleeve, means for causing the fuel to take a circuitous path throughout the entire length of sleeve, a pipe arranged within the sleeve, a heating element between said pipe and sleeve, a vapor outlet for said pipe at the end of the tube where the inlet is located, whereby the fuel will be in continuous contact with the heating element through its entire travel within the tube.

1,688,797. FLUSH TANK. JOSEPH BARTOSIK, Monessen, Pa. Filed Nov. 16, 1927. Serial No. 233,667. 7 Claims. (Cl. 4—32.)



1. A flushing apparatus comprising a tank, a pivotally mounted frame within the tank, an overbalanced rotatable drum carried by said frame, valve-controlled means for filling the drum, means controlled by the pivoted frame for governing the valve-controlled means, and means whereby rotation of the drum will be prevented.

1,688,798. FABRIC MAKING. ALBERT BODMER, Wattwil, Switzerland, assignor to Heberlein & Co. A. G., Wattwil, Switzerland, a Corporation of Switzerland. Filed Nov. 27, 1926, Serial No. 151,258, and in Germany Dec. 5, 1925. 9 Claims. (Cl. 28—1.)

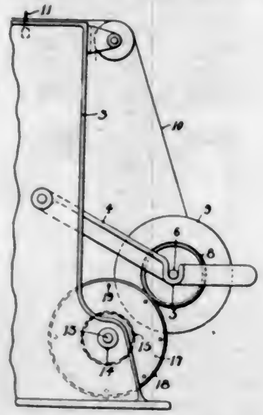
1. The method of producing fabrics with pattern effects which consists in weaving a fabric with unnitrated threads and nitrated vegetable threads, and decomposing portions of the nitrated threads with alkali according to a predetermined pattern.

1,688,799. FABRIC MAKING. ALBERT BODMER, Wattwil, Switzerland, assignor to Heberlein & Co. A. G., Wattwil, Switzerland, a Corporation of Switzerland. Original application filed Nov. 27, 1926, Serial No. 151,258, and in Germany Dec. 5, 1925. Divided and this application filed July 14, 1928. Serial No. 292,922. 7 Claims. (Cl. 28—1.)

1. Method of producing fabrics with pattern effects which consists in taking for treatment a fabric containing unnitrated threads and nitrated cellulosic threads, applying to the fabric according to a predetermined design a reserve which is resistant to the action of a reagent which will decompose the nitrated threads with which it comes into contact and subjecting unreserved portions of the fabric to said reagent to decompose the nitrated threads in such last portions.

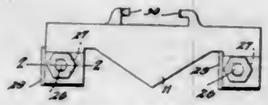
1,688,800. WINDING OF YARNS UPON BEAMS. JOHN BRANDWOOD, Southport, England, and JOSEPH BRANDWOOD, Waban, Mass. Filed May 23, 1925, Serial No. 32,513, and in Great Britain Jan. 9, 1925. 2 Claims. (Cl. 28—39.)

1. In an apparatus for the winding of yarns upon a flanged yarn beam with bosses, the diameter of which are approximately the diameter of the yarn barrel of the beam, a friction driving drum, a shaft upon which the said drum is mounted, bearing arms pivoted to bear the yarn beam parallel to the driving drum shaft, and a disc mounted on the shaft at either side of the friction drum and spaced apart therefrom to allow the reception of the flanges of the beam when borne in the pivoted arms in the respective spaces between the disc and the drum, the diameters of the discs and friction driving drum being approximately



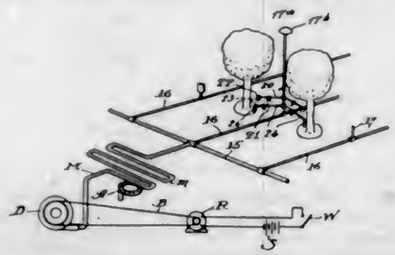
equal and the diameters of the beam bosses and of the beam barrel being in such relation that the beam barrel is clear of the friction driving drum when the said beam rests by its bosses upon the discs.

1,688,801. RAIL-SECURING DEVICE. WILLIAM G. COUGHLIN, Philadelphia, Pa. Filed Apr. 17, 1926. Serial No. 102,684. 11 Claims. (Cl. 238—299.)



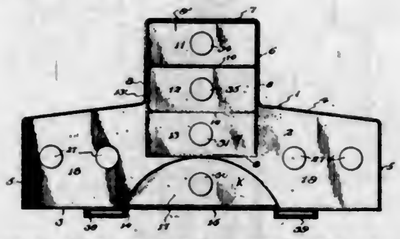
1. In combination with a wooden cross tie and a rail supported thereby, a tie plate consisting of a plate disposed between the rail and tie and having depending flanges paralleling the sides of the tie and an integral abutment engaging the outer edge of the rail base, and removable clips secured to said depending flanges engaging the inner edge of said base.

1,688,802. FROST-PREVENTION APPARATUS. JAMES W. CROWHURST, Los Angeles, Calif. Filed Apr. 13, 1927. Serial No. 183,543. 4 Claims. (Cl. 126—59.5.)



1. A frost preventing apparatus comprising means for placing a fluid under pressure, and means for conducting the fluid to different and elevated points of discharge in respect to vegetation so as to produce currents of the fluid downwardly into contact with the earth and resultant upward currents, to thereby utilize warmth of the earth to raise the temperature of the rebounding fluid.

1,688,803. TRAFFIC SIGNAL FOR MOTOR VEHICLES. JAMES THOMAS DAILEY and JESSE JAMES JACKSON, Kingwood, W. Va. Filed Mar. 30, 1927. Serial No. 179,621. 1 Claim. (Cl. 177—329.)



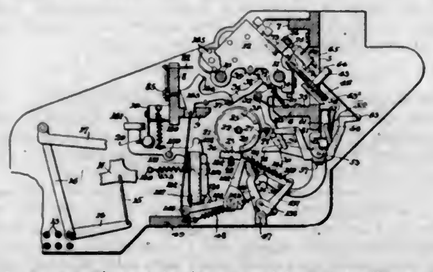
A signal of the class described, comprising a main casing, a dome forming a part of the top wall of the casing, the bottom of the casing having an opening therein closed by a lens, an arched plate spanning the opening and defining a tail light compartment, a supplemental casing having its upper portion engaged in the dome and its lower portion extended into the main casing and resting upon said plate, the supplemental casing cooperating with the main casing to provide lamp compartments, the main and supplemental casings each having an open end, a single cover connected to the main casing and closing the open end of each casing, said cover having openings therein shaped to designate direction indicia for registration with the respective compartments.

1,688,804. SOUND-PRODUCING APPARATUS. RAYMOND E. J. DALEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 22, 1927. Serial No. 241,967. 5 Claims. (Cl. 179—115.)



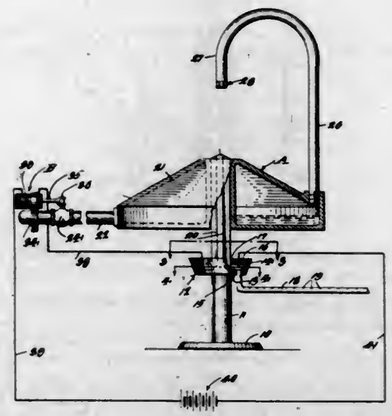
1. A sound producing apparatus comprising an armature, a vibratory member, and mechanical coupling means including a member provided with a hollow rigid portion connected between said armature and said vibratory member at one of its ends and resiliently supported at the other of its ends.

1,688,805. ADDING ATTACHMENT FOR TYPEWRITING MACHINES. GUSTAVE O. DEGENER, New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed June 10, 1926. Serial No. 114,950. 56 Claims. (Cl. 235—59.)



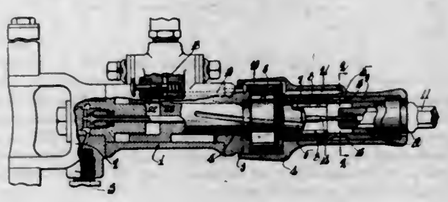
1. A computing mechanism comprising a travelling totalizer, devices for entering numbers in said totalizer when it is in a certain zone, and error check means rendered effective by a movement of the totalizer to a different zone which locks said devicese immediately after the operation of entering an incorrect digit has been completed.

1,688,806. OIL BURNER. FRANK ENGEL and JULIUS ENGEL, Syracuse, N. Y. Filed May 27, 1926. Serial No. 112,105. 2 Claims. (Cl. 158—62.)



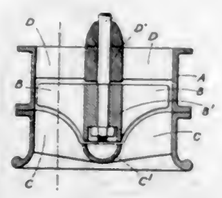
1. A hydro-carbon burner of the character described, comprising an upright supporting standard having the surface of the upper portion thereof provided with a plurality of longitudinally extending flutes, a closed casing constituting a gas generating chamber and having a central passageway formed therethrough to receive the fluted upper end of said standard for support of the casing thereon, oil supply means leading into said chamber, a gas lead-off pipe extending from the upper portion of said chamber to a position over the upper end of the passage therethrough, discharging downwardly thereover, and a pre-heating igniting element arranged beneath the casing in such position as to permit a flame to pass upwardly through said passage along said flutes for the purpose of igniting the gas issuing from the discharge end of said pipe.

1,688,807. DRILLING MECHANISM. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 31, 1923. Serial No. 683,580. 2 Claims. (Cl. 121—6.)



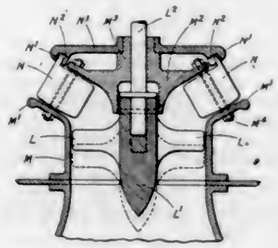
1. In a rock drill, a hammering motor comprising a cylinder and a piston reciprocable therein, a chuck housing removably secured to said cylinder, a chuck sleeve rotatably mounted in said housing, a hollow drill steel mounted in said sleeve, means including said sleeve and steel defining a chamber communicating with the bore in said steel, the walls of said cylinder and chuck housing and said chuck sleeve having connected passages formed therein in constant communication with said chamber, means for supplying pressure fluid through said passages and chamber to the bore in the drill steel for cleansing a drilled hole, and a valve operable from the rear end of the cylinder for controlling said supply.

1,688,808. AXIAL-FLOW HYDRAULIC MACHINE. JAMES HERBERT WAINWRIGHT GILL, Heacham, England. Filed Oct. 14, 1926, Serial No. 141,639, and in Great Britain Dec. 24, 1925. 16 Claims. (Cl. 103—89.)



1. In an axial flow hydraulic machine, a bladed rotor, the pitch of whose blades varies in a radial direction substantially in such a manner as to be proportional to $\frac{r}{r-c}$ where r is the radius and c is a constant.

1,688,809. AXIAL-FLOW HYDRAULIC MACHINE. JAMES HERBERT WAINWRIGHT GILL, Heacham, England. Filed Oct. 16, 1926, Serial No. 142,050, and in Great Britain Dec. 24, 1925. 9 Claims. (Cl. 253—148.)



1. An axial flow hydraulic machine, including in combination a casing, a bladed rotor rotatably disposed within the casing and having blades whose pitch varies in a radial direction in such a manner that the "head radius" lies between—

$$\frac{2}{3}R\frac{1-p^3}{1-p^2}+0.075\ R\ (1-p)^2$$

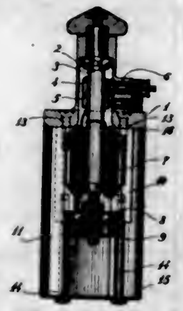
and

$$\frac{2}{3}R\frac{1-p^3}{1-p^2}-0.075\ R\ (1-p)^2$$

where R is the maximum radius of the rotor disc and pR is the radius of the rotor boss, and a set of guide vanes disposed on the side of the rotor corresponding to the inlet side when the machine is acting as a turbine, the rotor and the guide vanes being so mounted that the axial distance between them can be varied.

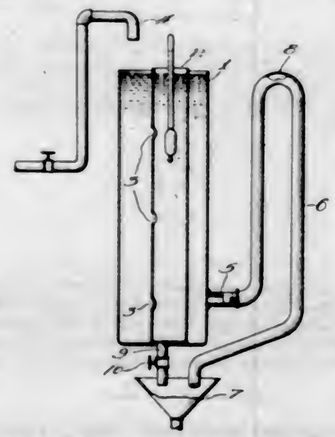
1,688,810. MAGNETO-ELECTRIC-LIGHTING MACHINE FOR CYCLES AND MOTOR CYCLES. LOUIS HEMMELER, Bienne, Switzerland. Filed May 6, 1927, Serial No. 189,408, and in Switzerland May 10, 1926. 1 Claim. (Cl. 171—252.)

In an electromagnetic machine for cycles and motor cycles and in combination a shaft and a rotor fast thereto, a non-magnetic support including an annular bearing and arms extending from the same and parallel to said shaft, magnets having polar projections extending parallel to said shaft and between the arms of said support whereby rotation of said magnets is prevented, a shield containing the other bearing of the rotor shaft and supporting said non-magnetic support and an outer shell adapted to press the



magnets against said shield in order to maintain the air-gap between rotor and magnets.

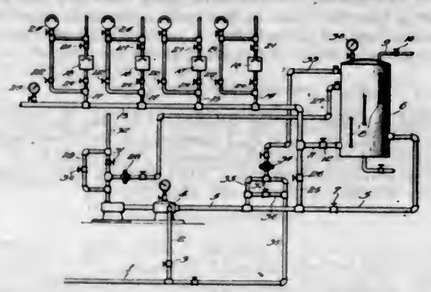
1,688,811. APPARATUS FOR ASCERTAINING THE CHARACTERISTICS OF FLOWING LIQUIDS. VICTOR HENNY, Martinez, Calif., and JEAN D. SEGUY, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed July 5, 1923, Serial No. 649,537. Renewed July 2, 1928. 3 Claims. (Cl. 265—45.)



1. In an apparatus for testing flowing liquids, the combination with open communicating containers of substantially uniform height, of means for introducing a liquid to one of said containers whereby a relatively stagnant testing pool of liquid is maintained in the communicating container, an overflow from the first mentioned container for maintaining a liquid level in the two containers.

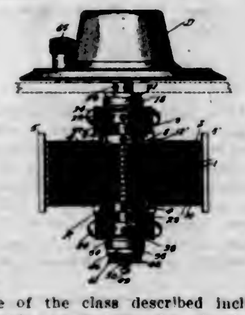
1,688,812. PRESSURE-FEEDING APPARATUS. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Aug. 16, 1923, Serial No. 657,750. Renewed May 28, 1928. 3 Claims. (Cl. 137—78.)

1. In a fluid charging apparatus for pressure systems, the combination with a pump interposed in a supply line, of a liquid reservoir connected thereto receiving the fluid pumped through the supply line, a drawoff from said reservoir communicating with separate units to be supplied with liquid, means for introducing an extraneous gas under pressure to the reservoir above the body of liquid maintained therein, to maintain the liquid in the reservoir under a predetermined pressure sufficient to supply liquid to said units, against the pressure maintained therein, and means communicating with the reservoir for automatically varying the speed of the pump operated by variations in the pressure in the reservoir, and an auxiliary line communicating with the



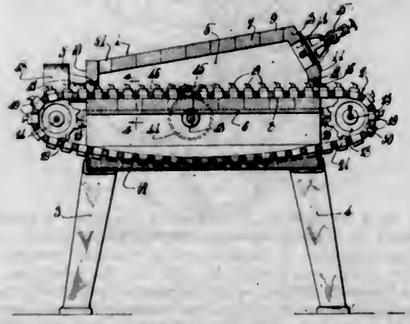
reservoir operation by variations in the pressure therein to by-pass the excess liquid from the discharge side of said pump back to the suction side thereof.

1,688,813. VARIABLE CONDENSER. HARRY H. IDE, La Grange, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1924. Serial No. 721,627. 11 Claims. (Cl. 175—41.5.)



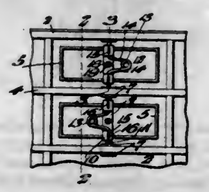
1. A device of the class described including a fixed element comprising a plurality of conducting members, L shaped supporting members having a plurality of slots adapted to receive said conducting members, whereby said conducting members are supported and uniformly separated from each other by said L shaped supporting members and secured thereto to form a single mountable unit, a U-shaped supporting frame, and adjustable means for adjustably supporting said unit on said supporting frame.

1,688,814. BLANK-HEATING FURNACE. HARRY C. JOHANSEN, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 30, 1922. Serial No. 532,680. 10 Claims. (Cl. 263—8.)



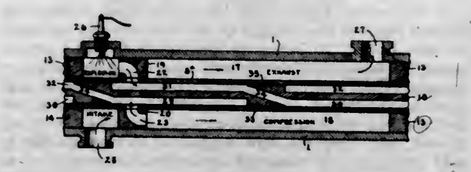
1. In a blank heating furnace, an elongated combustion chamber, a burner discharging longitudinally of said chamber and toward one end thereof adapted to generate different degrees of heat along said chamber with a maximum at said end, and means for feeding a series of blanks longitudinally of said chamber and discharging the same adjacent said end.

1,688,815. ICE-CAN-SUBMERGING DEVICE. LOUIS KOBASH, Maple Shade, N. J. Filed May 3, 1924. Serial No. 710,885. 1 Claim. (Cl. 62—157.)



In a device of the character stated, a bar adapted to rest on the top of an ice can, thin, flat keepers on the ends of said bar having rectangular slots in the tops thereof, a tension device consisting of a wire member coiled and bent to form a single central eye, which eye is horizontally disposed and is arranged in substantially the same horizontal plane as the said keepers, and arms diverging V-shaped therefrom, in substantially the same plane with said eye and having their ends deflected in opposite directions to form bolts slidable in the slots of said keepers, and upright pins on said bolts projecting through said slots in said keepers.

1,688,816. ROTARY ENGINE. CHARLES E. KRAUS, Grand Rapids, Mich. Filed Jan. 19, 1927. Serial No. 161,978. 10 Claims. (Cl. 123—13.)

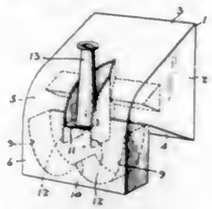


1. A rotary internal combustion engine comprising, an explosion chamber and a compression chamber, a shaft extending through both of said chambers, a power rotor fixed to said shaft in said explosion chamber, a compression rotor fixed to said shaft in said compression chamber, means on the compression rotor to compress the gas in the compression chamber, a transfer member having a plurality of chambers, each of which is adapted, by movement of the transfer member, to receive compressed gas from the compression chamber at one revolution of the rotors and to communicate with and deliver said compressed gas to the explosion chamber at the next succeeding revolution, means for igniting the gas in the explosion chamber, means on the power rotor acted upon by the exploded gas to rotate said rotor, and means for discharging the burned gas from the explosion chamber.

1,688,817. SOUND AMPLIFIER. FREDERICK KUCH, Stratford, Ontario, Canada, assignor to The McLagan Furniture Company, Limited, Stratford, Ontario, Canada. Filed June 18, 1926. Serial No. 116,866. 5 Claims. (Cl. 181—27.)

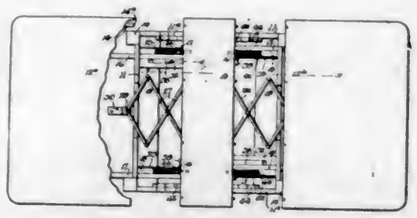
3. A sound amplifier, comprising a sound dispersing chamber formed with divergent walls, a chamber arranged in substantially right angular relation to said dispersing chamber and having a curved wall leading from the outer side thereof to and continuous with the upper divergent wall of the dispersing chamber, said right

angularly arranged chamber having its end walls convergently curving inward and terminating in a central dividing ridge, means for directing and concentrating the sound waves against said ridge, means arranged between



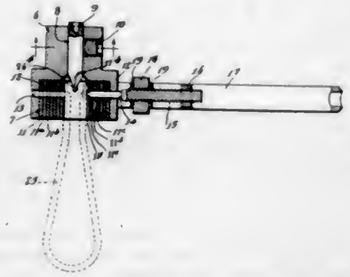
said latter chamber and sa'd dispersing chamber for effecting a further division of the separate groups of sound waves, and means for directing sound waves into the latter chamber directly against said dividing ridge.

1,688,818. TABLE. CHRISTIAN KUEHN, St. Louis, Mo. Filed June 24, 1926. Serial No. 118,242. 6 Claims. (Cl. 45—9.)



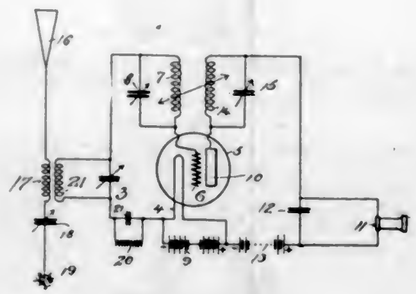
1. In a table construction, the combination with a stationary support and table top sections movably arranged on said support, of lazy tong mechanism having a central point of engagement with said support, a plurality of extension leaves arranged in superimposed relation in said stationary support, means operable by said table top sections and engaging the lowermost extension leave for raising and lowering said extension leaves relative to said table top sections, and depending portions fixed to the undersides of said table top sections and pivotally connected to the respective ends of said mechanism for effecting simultaneous operation of both of said sections, said lazy tong mechanism be'ng spaced from said table top section and arranged below the superimposed extension leaves.

1,688,819. CENTERING TOOL. JOHN LECK, Escondido, Calif., assignor of one-half to William A. Dyer, Escondido, Calif. Filed Apr. 4, 1927. Serial No. 180,775. 6 Claims. (Cl. 77—18.)



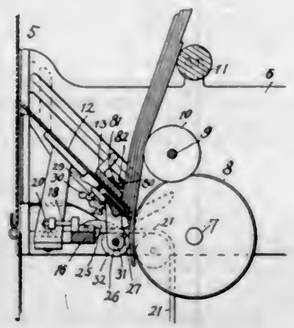
1. A centering tool comprising a body provided with a recess in one end and with a drill seat axially alined with the recess, a drill in the drill seat projecting into the recess, a bushing removably fitting in the recess, the inner faces of opposite walls of the bushing parallel, the body and bushing provided with alined orifices, a pin projecting into the orifice in the body, a means to move the pin into and out of the orifice in the bushing, and a means to indicate a length of movement of the pin.

1,688,820. ELECTRICAL SIGNAL SYSTEM. CHARLES V. LOGWOOD, New York, N. Y., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y., a Corporation of Delaware. Filed May 28, 1921. Serial No. 473,362. 1 Claim. (Cl. 250—20.)



The combination with a source of alternating current of an audion having input and output circuits, the input circuit including two inductances in series and each shunted by a variable condenser to provide tuned circuits and the output circuit including an inductance shunted by a variable condenser, said input and outpnt circuits being inductively coupled together, the tuned circuits in said input circuit being tuned to different frequencies and said source being directly associated with only one of said tuned circuits.

1,688,821. PERIODICAL-VENDING MACHINE. GEORGE H. MATCHETT, Cleveland, Ohio. Filed Mar. 13, 1920. Serial No. 365,583. 13 Claims. (Cl. 312—53.)

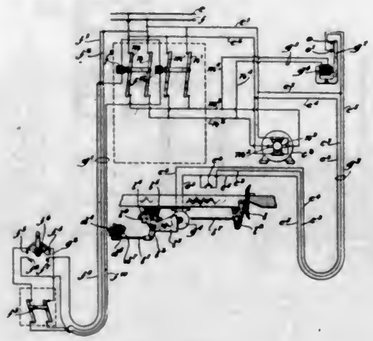


1. In a machine of the character described, a platform adapted to support sheets to be fed, an extrusion roller adjacent an edge of the platform, a retaining member pivotally mounted adjacent an edge of the platform, the lower portion of said retaining member being adapted to be engaged by a sheet as it is extruded to move the upper portion of the retaining member toward the said extrusion roller and means for adjusting the said retaining member with respect to the extrusion roller.

1,688,822. PROCESS OF PREPARING PURIFIED PHOSPHORIC ACID. JOHN MAXWELL, PHILIP C. HOFFMANN, and CLARENCE E. MCCOY, Richmond, Va., assignors, by mesne assignments, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia. Filed Dec. 22, 1925. Serial No. 77,118. 10 Claims. (Cl. 23—165.)

1. In the process of producing a purified phosphoric acid, the steps of heating an impure phosphoric acid to a temperature of at least 1200° C. in the presence of sufficient oxidizing gas to insure the absence of elemental phosphorus in the resulting fumes and recovering the phosphoric acid contained in the fumes.

1,688,823. ELEVATOR. HAROLD V. MCCORMICK, Long Beach, N. Y., assignor to Shur Loc Elevator Safety Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 24, 1927. Serial No. 163,032. 12 Claims. (Cl. 187—52.)



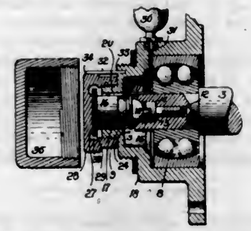
5. The combination of a door, a door operating motor in operative relation with the door, a source of power connected to the motor, a device to control the supply of power to the door operating motor, a three armed lever having one arm weighted, an operating connection from another of the arms of the lever to said device, a bell crank latch pivotally mounted on the third arm of the lever, a detent to be engaged by the latch, an arm operatively connected with the bell crank latch, and means to offer resistance to the movement of said arm, whereby in the initial movement of the three armed lever the latch is released and full movement of the three armed lever is permitted.

1,688,824. THEME FINDER. WILLIAM OTTO MIESSNER, Milwaukee, Wis. Filed Apr. 5, 1926. Serial No. 99,942. 3 Claims. (Cl. 35—12.)



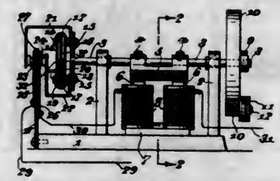
1. A theme finder consisting of a member provided with a longitudinally extending straight phonograph needle guiding slot and graduations adjacent said slot, said slot being enlarged at one end portion to revolubly receive a phonograph post.

1,688,825. THRUST BEARING FOR GYRO-COMPASS ROTORS. CHESTER B. MILLS, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 28, 1920. Serial No. 413,312. 9 Claims. (Cl. 308—163.)



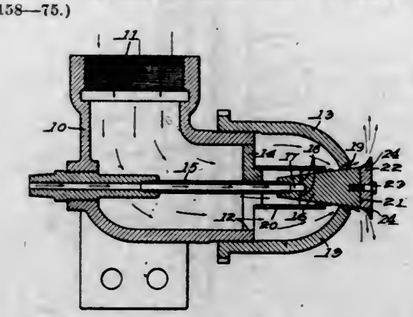
1. The combination, a rotatable element, a stationary thrust bearing associated therewith, a limited stop, a plurality of discs positioned between said bearing and said stop, and a reservoir containing fluid, said discs being positioned in said reservoir whereby interstices between said discs are maintained saturated.

1,688,826. PERIODIC CIRCUIT CONTROLLER. CARL P. NACHOD, Louisville, Ky., assignor to Nachod Signal Company, Incorporated, Louisville, Ky., a Corporation of New York. Filed Oct. 18, 1923. Serial No. 669,335. 1 Claim. (Cl. 200—90.)



Apparatus of the character described comprising a base, shaft-supporting structure carried by said base, a shaft journaled in said structure, an inertia disk carried by said shaft, a weight carried by said disk at or adjacent its periphery, an electro-magnet, a coacting armature for oscillating said shaft, a circuit closer comprising a plurality of contact members moving with said shaft and controlling the circuit of said magnet, contacts disposed in the axis of rotation of said system and rotating therewith and connected with said contact members, and stationary contacts with which said contact members respectively engage in the axis of rotation of said shaft.

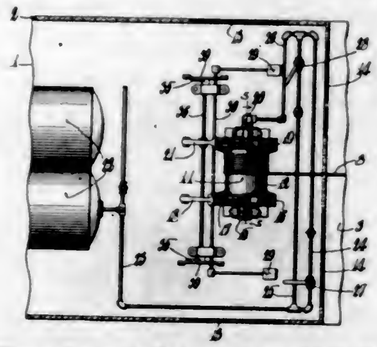
1,688,827. BURNER. JOHN H. NELSON, Worcester, Mass. Filed Sept. 14, 1925. Serial No. 56,137. 3 Claims. (Cl. 158—75.)



1. In a device for mixing liquid fuel with an atomizing medium, the combination with a nozzle having an opening therein, and a conical body located in said opening its

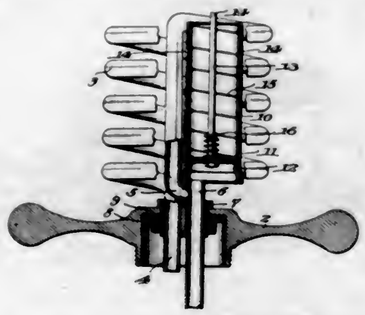
larger end projecting therethrough, and spaced from its edge all around to provide an outlet for the escape of the mixture, of means for introducing liquid fuel in a position to spread on the surface of said body, means for directing the atomizing medium along said surface toward the outlet to take up the fuel therewith as it passes out of the outlet, and a tube surrounding the smaller end of said body and extending a distance therealong open at both ends to receive and discharge a current of an atomizing medium, and positioned to receive any fuel which is not deposited on the surface of the body and allow it to spread in a thin film on the tube for the same purpose, the larger end of the conical body being larger than said tube, whereby an annular escape passage is formed at the end of the tube.

1,688,828. LOADING AND UNLOADING MECHANISM. ROBERT C. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 17, 1924. Serial No. 699,663. 6 Claims. (Cl. 254—186.)



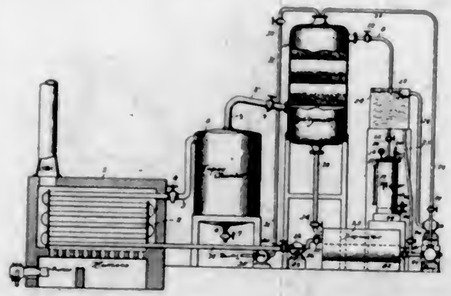
1. The combination with a hoisting mechanism having a winding drum, a brake cooperating with said drum, a driving motor for said drum, and means for controlling the drive of said drum by said motor, of means for independently controlling said brake, said drive control means and said motor including separate control elements for each arranged at each end of said drum whereby the operator may independently control the drum brake, the drive control means, or the motor while stationed at either end thereof.

1,688,829. CONDENSER FOR AUTOMOBILE RADIATORS. SILAS K. PALMER, Lake Park, Iowa. Filed Feb. 13, 1924. Serial No. 692,557. 3 Claims. (Cl. 257—25.)



1. A condenser for automobile radiators, comprising a radiator cap, a condenser comprising a coiled tube located above the cap and having its ends connected to said cap, said coiled tube being adapted to condense the vapors evolved within the radiator, and a combined air-relief valve and a movable mechanical visible indicator connected to the condenser in the region of the return end of the tube thereof, said valve being adapted to operate the mechanical indicator.

1,688,830. PROCESS OF CRACKING OIL. ROBERT T. POLLOCK, Boston, Mass., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Dec. 6, 1920. Serial No. 428,792. Renewed July 16, 1928. 3 Claims. (Cl. 196—48.)



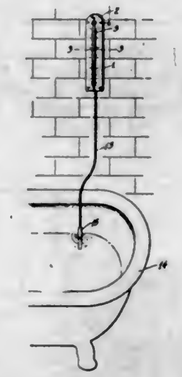
2. A continuous process for cracking hydrocarbon oil, consisting in subjecting the oil to cracking conditions of heat and pressure in a heating zone, in passing the evolved vapors through a dephlegmator wherein they are caused to physically commingle with incoming charging oil and a supply of water, in passing the charging oil, together with the reflux condensate separated from the vapors in said dephlegmator and the unvaporized water to a separator from which the water is withdrawn, in passing mixed reflux condensate and charging oil from said separator to said heating zone, in taking off dephlegmated vapors from said dephlegmator, in condensing such vapors and collecting the resulting distillate.

1,688,831. METHOD OF TREATING MOLASSES. FRED RANSOHOFF, New York, N. Y., assignor to The Fleischmann Company, New York, N. Y., a Corporation of Ohio. Filed May 11, 1925. Serial No. 29,623. 15 Claims. (Cl. 195—16.)

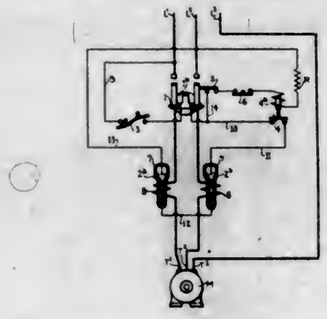
6. A method of treating cane molasses for use in the manufacture of yeast by an aeration process, which comprises treating the molasses with sufficient ammonia to render it alkaline, adding an ammonium phosphate and thereafter separating the solution from substances undissolved therein.

1,688,832. BATH THERMOMETER. JACK D. SARTAKOFF, New York, N. Y., assignor of one-half to J. D. Sartakoff Corporation, New York, N. Y., a Corporation of New York, and one-half to Khetah Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1923. Serial No. 683,397. 5 Claims. (Cl. 73—52.)

1. A bath thermometer embodying a U tube, a reading column in the tube, a flexible pressure communicating tube connected at one of its ends to one leg of the U tube, a hollow bulb connected to the other end of the pressure communicating tube, and means for regulating the capacity of the bulb.



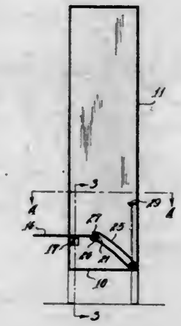
1,688,833. PROTECTIVE CIRCUIT CONTROLLER. EDWARD W. SEEGER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 18, 1923. Serial No. 639,768. 9 Claims. (Cl. 175—294.)



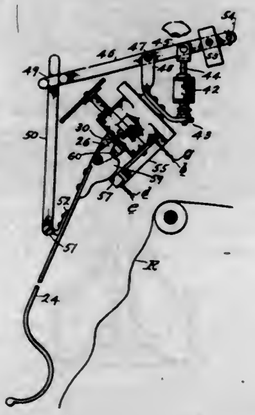
1. The combination with a translating circuit of an electro-responsive switch for establishing power connections thereto and control means for said switch including a plurality of control switches connected in series in the energizing circuit thereof, certain of said switches being responsive upon given overload conditions in said translating circuit to interrupt said energizing circuit and another being responsive upon response of said former switches to insure against re-establishment of said energizing circuit by said former switches upon resetting thereof.

1,688,834. LOCKER. JAMES W. SHARP, Lakewood, Ohio. Filed Aug. 11, 1923. Serial No. 656,937. Renewed Apr. 12, 1928. 3 Claims. (Cl. 312—165.)

1. In a locker of the character described, the combination of a sliding seat adapted to be positioned within the locker when the locker is closed, a pair of channel members secured to the side walls of the locker, pivotal means connecting the rear end of the seat to the channel members, means formed integrally with said channel members at the upper ends thereof adapted to secure the seat in extended position, means rigidly secured to the locker walls adjacent the door opening, such means and the channel members being so positioned that the seat is drawn to its foremost position extending horizontally through the door opening, the rear end is secured by the channel members, the mid-portion rests on rigid means and the whole seat comprises a cantilever.



1,688,835. PAPER-BREAK INDICATOR. EDWARD P. SHELDON, Brooklyn, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 3, 1925. Serial No. 54,172. 8 Claims. (Cl. 192—127.)

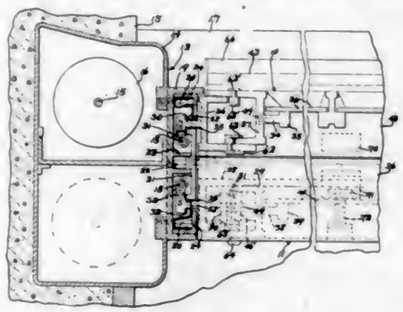


1. In a web handling mechanism, the combination of a plurality of webs, a detector member for each web located to contact therewith and movable on breakage of a web, means controlled by the detector members to stop the machine, means for automatically returning the controlling mechanism to operative position, and means for indicating which detector member has operated.

1,688,836. WINDOW CONSTRUCTION. HARRY B. STEIN, Chicago, Ill. Filed Dec. 23, 1927. Serial No. 242,114. 7 Claims. (Cl. 189—66.)

1. A window construction comprising frame means, a sash having side members with inner and outer portions, groove and rib means on said frame means and said members for slidably mounting the sash, also to permit reversing said side members in said frame means, means for swinging said inner portions on said outer portions,

and means for variously mounting the sash pane on the inner portions, thereby permitting said side members to

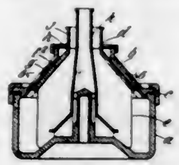


be reversed in said frame means and the window sash to be swung in the selected direction.

1,688,837. PROCESS OF MANUFACTURING DINITRO DERIVATIVES OF PERYLENE AND ITS COMPOUNDS. KARL STIEGER, Graz, Austria, assignor to Felice Bensa, Genoa, Italy. Filed Jan. 5, 1926, Serial No. 79,477, and in Austria Oct. 28, 1925. 3 Claims. (Cl. 260—142.)

1. A process for manufacturing dinitro derivatives of any one of the compounds selected from the group of perylene and its halides consisting in suspending such compound in glacial acetic acid, heating the suspension to substantially the boiling temperature of water and subjecting the suspension to the action of a quantity of nitric acid produced in situ which gives two molecules of NO_2 for each molecule of the said compound.

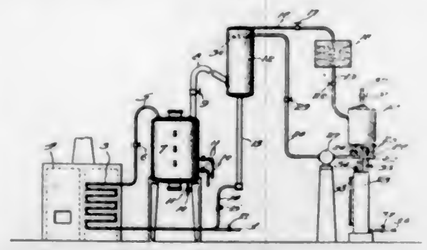
1,688,838. DRUM FOR CENTRIFUGAL SEPARATING APPARATUS. KARL JOHAN SVENSSON, Lidingo Villastad, and KARL AXEL PATRIK NORLING, Sodertorns Villastad, Sweden. Filed Dec. 11, 1926, Serial No. 154,111, and in Sweden Dec. 29, 1925. 2 Claims. (Cl. 233—46.)





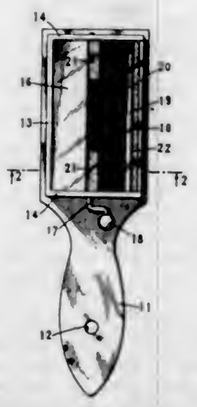
1. A centrifugal drum, for the continuous separation of mixtures of a plurality of fluids of different specific gravities containing solid particles in suspension, provided with a top plate adapted to keep apart the separated lighter and heavier fluid components during their discharge from the drum, and adapted to determine the position of entrances to channels adapted to discharge the heavier fluid components at a relatively high velocity, so as to facilitate the discharge therewith of the separated solid particles not deposited on the wall of the drum, and means adapted for varying the distance of said channel entrances from the centre of the drum thereby to vary the permissible deposit of solid particles on the wall of the drum.

1,688,839. OIL APPARATUS. CLAUDE F. TEARS, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed June 18, 1923, Serial No. 646,055. Renewed May 28, 1928. 2 Claims. (Cl. 137—78.)



2. A stream divider for distilling systems, comprising an enlarged container, a liquid inlet line connected thereto, an outlet line terminating in a standpipe in the container, a plurality of relatively smaller manifolded outlet lines terminating as standpipes in the container and having their upper extremities equilevel with the larger outlet line.

1,688,840. PENCIL SHARPENER. HAGOP P. TEVONIAN, Brooklyn, N. Y. Filed June 9, 1927. Serial No. 197,624. 8 Claims. (Cl. 120—89.)

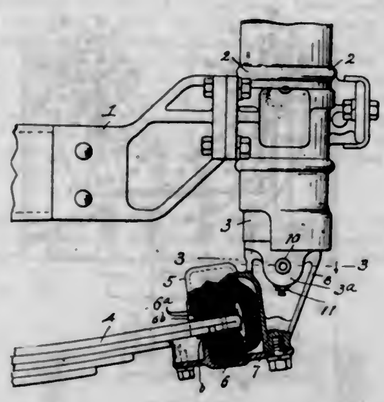


1. A pencil sharpener comprising a receptacle having a top and a hinged side, hinged substantially central of the base and having its free edge engaging said top, the inner face of the hinged side being provided with an abrasive surface.

1,688,841. SHACKLE CONSTRUCTION. JOHN F. WALLACK, Shaker Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 29, 1924. Serial No. 740,638. 2 Claims. (Cl. 267—54.)

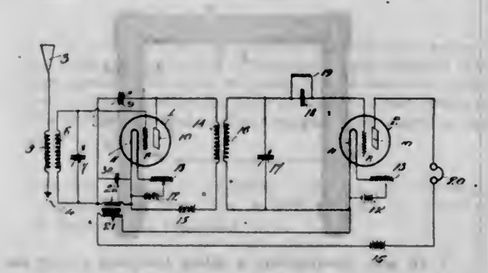
1. The combination with a resiliently suspended plunger carried by the chassis of a motor vehicle and having a pair of spaced ears, and the end of a spring of the motor vehicle, of a connection comprising an elastic body with which

the end of the spring cooperates, a housing for such body having a rigid extension provided with a portion adapted



to extend between the ears of the plunger, and means for securing the plunger and the extension to each other.

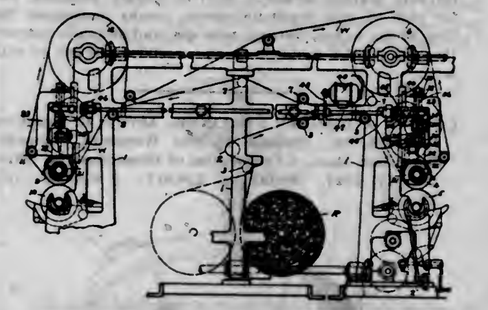
1,688,842. RADIO SIGNALING CIRCUITS. ROY A. WEAGANT, Douglaston, N. Y., assignor to De Forest Radio Company, Jersey City, N. J., a Corporation of Delaware. Filed Jan. 31, 1925. Serial No. 5,923. 8 Claims. (Cl. 250—20.)



1. A radio signaling circuit comprising a radio frequency amplifier having a grid-filament circuit, a plate-filament circuit and a grid-plate circuit, a detector coupled with the plate-filament circuit and having an output circuit coupled with the grid-filament circuit of said amplifier, and a capacity included in said grid-filament circuit, and a second capacity included in said grid-plate circuit having a predetermined ratio value with respect to said first mentioned capacity whereby a Wheatstone bridge is formed in which the plate-filament circuit of the detector is coupled across one set of nodal points and the plate-filament circuit of the amplifier is coupled across the other set of nodal points.

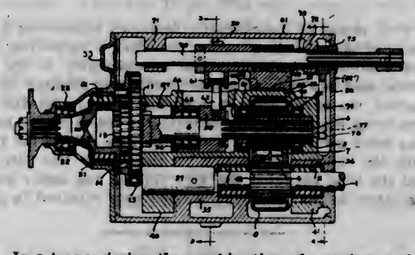
1,688,843. INTAGLIO PRINTING MACHINE. ADOLPH M. ZUCKERMAN, New York, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 27, 1925. Serial No. 52,737. 11 Claims. (Cl. 101—157.)

1. In a printing machine, the combination of a plurality of printing couples each including an impression cylinder and a cooperating form cylinder vertically arranged, one of which is movable relatively to the other, means including screw rods for simultaneously adjusting the movable cylinders, means including second screw rods for independent-



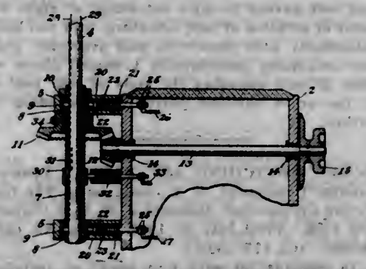
ly adjusting the movable cylinders, and unyielding rigid connections between said means and the cylinders that are adjusted thereby.

1,688,844. TRANSMISSION GEARING. CHARLES E. F. AHLM, East Cleveland, Ohio, assignor to Automotive Patent Holding Company, Cleveland, Ohio, a Corporation of Delaware. Filed Aug. 16, 1924. Serial No. 732,387. 11 Claims. (Cl. 74—58.)



1. In a transmission the combination of a casing, a shaft journaled in the casing, a plurality of dental driven members rigidly carried by the shaft, another shaft carried by the casing permanently out of axial alignment with said first named shaft, an intermediate shaft, a laterally movable bearing therefor, said bearing being mounted to swing about the axis of rotation of said second named shaft, a chain for drivingly connecting said shaft to said intermediate shaft, a driving member in splined engagement with the intermediate shaft arranged to be moved into driving engagement with said driven members and means for so moving the driving member.

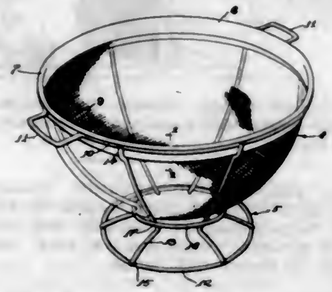
1,688,845. AERIAL LOOP MECHANISM FOR RADIO RECEIVING SETS. VICTOR ALVEAR, Brooklyn, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Feb. 2, 1924. Serial No. 690,141. 8 Claims. (Cl. 250—33.)



1. Aerial loop mechanism for a radio receiving set, embodying a rotatable, vertical, loop shaft supporting loop wiring, a pair of insulated, spaced, rotatable bearing-mem-

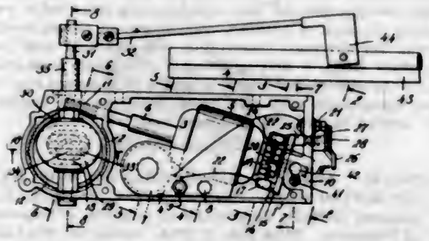
bers secured to said shaft, a pair of fixed journal-bearings for said bearing members, electric contact members, one for each of said bearing-members, means to connect the loop wiring to said bearing members, and means to connect the two contact members to the receiving devices of said set.

1,688,846. COLANDER STRAINER. ARTHUR G. ANDREWS, Rockford, Ill., assignor to The Washburn Company, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 17, 1927. Serial No. 226,617. 5 Claims. (Cl. 53—1.)



4. A utensil of the character described comprising a wire frame of skeleton construction providing a supporting ring, and a screen bowl arranged to fit removably in the wire frame, said bowl having a sheet metal ring forming the rim thereof, the upper edge of said ring being rolled and said ring being beaded slightly beneath the rolled edge, and the ring being arranged to fit within the wire ring of the frame with the rolled edge seating on the top of the wire ring and the bead engaging the wire ring on the under side of the latter so that the bowl is removably retained in place.

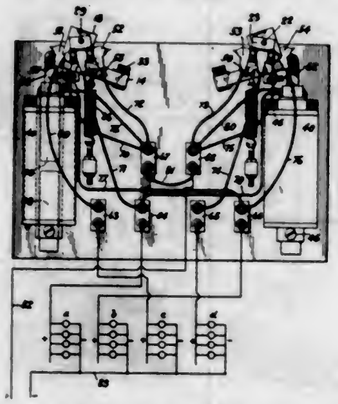
1,688,847. ELECTRIC MOTOR. EMANUEL AUFIERO, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Filed Jan. 11, 1924. Serial No. 685,633. 3 Claims. (Cl. 172—36.)



1. In an electric motor, the combination of an armature, a field coil having its axis extending at right angles to the axis of rotation of said armature, said coil being offset longitudinally with respect to said armature, and a field frame comprising substantially L-shaped pieces with one portion of each engaging the ends of said field coil and with the other portions partially surrounding the said armature.

1,688,848. SWITCHING APPARATUS. LLEWELLYN T. BARNES, Hempstead, N. Y., assignor to The Gem Engineering Corporation, Hempstead, N. Y., a Corporation of New York. Filed July 30, 1923. Serial No. 654,667. 2 Claims. (Cl. 177—346.)

2. In combination with four banks of translating devices, an automatic switching apparatus for energizing and deenergizing successively a varying pair of banks, said apparatus comprising four switches, one in series with each bank, said switches being divided in two groups, an electromagnet for each group of switches and means for shunting one switch of one group across the electro-



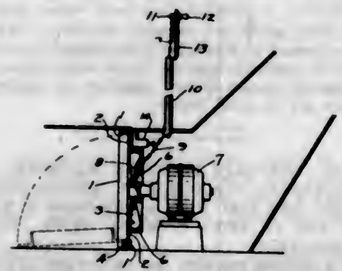
magnet of the other group, and means whereby each electromagnet when energized, operates to close the last-mentioned switch in its group and to open another switch in its group.

1,688,849. SAFE CONSTRUCTION. DAVID H. BELLAMORE, New York, N. Y., and CARL P. BARTELS, Hamilton, Ohio, assignors to The Mosler Safe Company, Hamilton, Ohio, a Corporation of New York. Filed June 8, 1923. Serial No. 644,090. 9 Claims. (Cl. 109—10.)



1. In safe construction, a filling including a core embedded in heat insulating material, said core containing moisture and having a surface coating preventing loss of moisture from the core under normal temperatures.

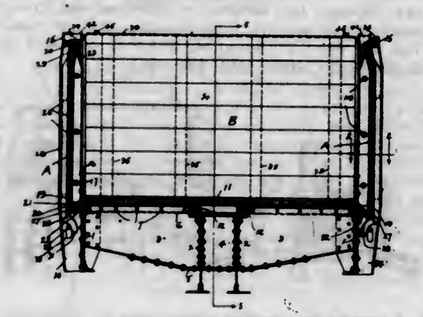
1,688,850. FORCED-DRAFT FAN INCLOSURE. WILLIAM D. CALHOUN, Seattle, Wash. Filed Apr. 11, 1927. Serial No. 182,605. 1 Claim. (Cl. 126—99.)



In a device of the class described, an air duct, a motor positioned in the duct, a fan mounted on the motor shaft, a closure having a circular opening, the diameter of which

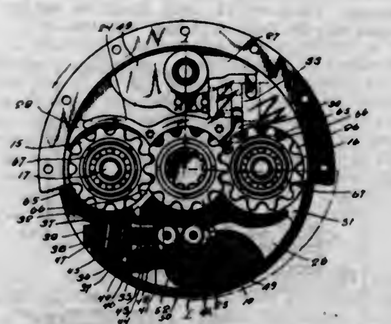
is slightly larger than the diameter of the fan, said closure being positioned so that the fan will rotate in the said opening, said closure being provided with a flange surrounding the said fan, a stationary frame mounted in the said duct to hold the said closure, suitable hinges by which the said closure is mounted in the said frame, said frame and closure closing the entire interior of the duct with the exception of the opening around the fan when in the closed position, a flexible device attached to the said closure and extending outward through the said duct to a remote point, and means for adjustably holding the end of said flexible device to adjust the position of the said closure.

1,688,851. RAILWAY CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1927. Serial No. 204,677. 16 Claims. (Cl. 105—259.)



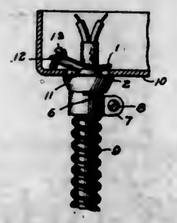
1. In a railway car, the combination with plow guides; of a level floor extending continuously therebetween; side doors spaced away from the edges of said level floor, said doors extending below the level of the floor; and elements with inclined surfaces leading from said plow guides to the door.

1,688,852. CLUTCH DEVICE. HOWARD E. CHRISTIE, Bronx, N. Y. Filed Apr. 8, 1922. Serial No. 550,641. 6 Claims. (Cl. 192—61.)



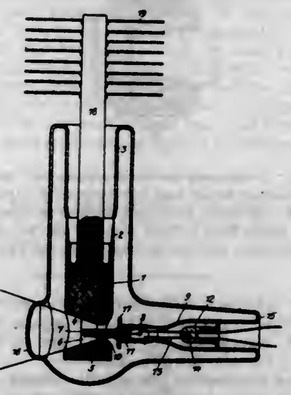
4. A clutch mechanism with which to connect a drive shaft with a driven shaft, said mechanism comprising a housing adapted to contain a fluid, a rotor whose rotation depends upon movement of said fluid, a piston valve for determining movement of said fluid, said valve having parts of uneven surface extent subject to pressure of said fluid tending to operate said valve, and centrifugally controlled means also tending to operate said valve.

1,688,853. OUTLET-BOX CONNECTION. MARTIN M. CLAYTON, Baden, Pa., assignor to National Metal Molding Company, a Corporation of Pennsylvania. Filed Aug. 14, 1926. Serial No. 129,108. 1 Claim. (Cl. 247—25.)



The combination with an electrical outlet-box having an opening through its wall, of a conduit connecter projected through said opening and having shoulders arranged respectively within and without said opening, the inner shoulder having a projection inclined away from the box wall and provided with a threaded opening, and a screw projected through said threaded opening in inclined relation to the box wall with its tip bearing against the inner face of said wall.

1,688,854. VACUUM TUBE FOR THE PRODUCTION OF SOFT X RAYS. KARL WILHELM DAUMANN, Hamburg, Germany, assignor to C. H. F. Muller Rontgenrohrenfabrik, Hamburg, Germany, a Corporation of Germany. Filed Apr. 15, 1926, Serial No. 102,130, and in Germany Apr. 25, 1925. 3 Claims. (Cl. 250—34.)

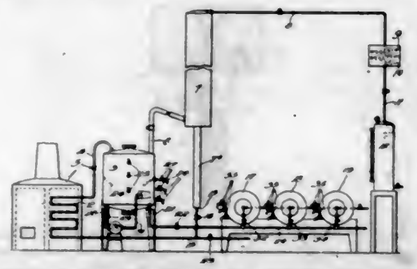


1. A vacuum tube for the production of soft X-rays, comprising an incandescent cathode, a flaring anti-cathode surrounding said cathode at a distance, a window of a material of high permeability to X-rays, located in line with the longitudinal axis of the cathode at that portion of the vacuum tube toward which said anti-cathode flares, and a disk or screen likewise located in line with the longitudinal axis of the cathode, but at the opposite side of the X-ray producing anti-cathode, to prevent the X-rays from issuing in a direction away from said window.

1,688,855. PROCESS FOR CONVERTING PETROLEUM OILS. AUBREY D. DAVID, Chicago, Ill., assignor to The Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Feb. 14, 1923, Serial No. 619,038. Renewed Apr. 24, 1928. 3 Claims. (Cl. 196—69.)

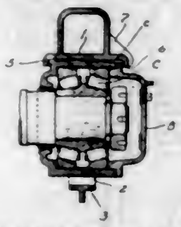
1. A process for treating hydrocarbon oil consisting in raising the oil to a cracking temperature while advancing in a stream through a heating zone, in transferring the highly heated oil to an enlarged reaction chamber wherein a sub-

stantial body of oil accumulates and wherein no rise in oil temperture occurs, in taking off vapors from said enlarged chamber for condensation and collection, in continuously withdrawing residual oil from said enlarged chamber without recirculating any portion thereof through said heating



zone, in maintaining a swirling motion of the liquid oil in said enlarged chamber to hold the carbon in suspension in the oil by withdrawing a portion of the liquid oil therefrom and returning it under an increased pressure to said chamber tangential to the wall thereof.

1,688,856. CAR-TRUCK SIDE FRAME. HARRY E. DOERR, St. Louis, Mo., assignor to Scullin Steel Company, St. Louis, Mo., a Corporation of Delaware. Filed Apr. 30, 1927. Serial No. 187,887. 6 Claims. (Cl. 105—220.)

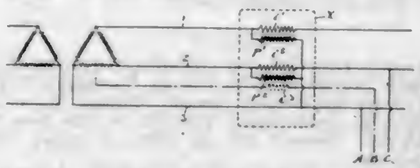


1. A car truck side frame designed for use with roller bearing journal boxes and provided with integral end portions that completely surround the journal boxes, and which comprise parts that extend transversely across the underside of the boxes and are normally spaced away from same.

1,688,857. LINING COMPOSITION FOR METALLIC CONTAINERS. TAKANOSHIN DOMOTO, Osaka, Japan. Filed Sept. 5, 1923, Serial No. 661,113, and in Japan Dec. 2, 1922. 1 Claim. (Cl. 134—17.)

A lining composition for metallic vessels, comprising a mixture of rubber, benzol and aluminum soap, in the respective proportions by weight of 10, 100 and 5.

1,688,858. METER FOR MEASURING COMBINED POLYPHASE AND SINGLE-PHASE ELECTRICAL ENERGY. GEORGE F. DREWRY, Toronto, Ontario, Canada, assignor to The Lincoln Meter Company, Limited, Toronto, Canada. Filed Feb. 20, 1922. Serial No. 537,879. 5 Claims. (Cl. 171—309.)

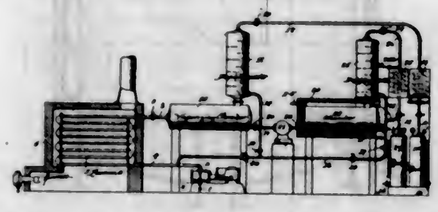


1. In a meter, the combination with a three-phase source of electrical supply, one phase of which is divided into a single phase three wire system by a neutral central wire, of potential and current meter coils connected with the three-phase source, and a current coil arranged in said neutral wire of the single phase three wire system adapted to influence the total flux of the aforesaid meter coils.

1,688,859. PROCESS OF CRACKING HYDROCARBONS. GUSTAV EGLOFF and HARRY P. BENNER, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Dec. 20, 1920, Serial No. 432,068. Renewed Nov. 21, 1927. 2 Claims. (Cl. 196—56.)

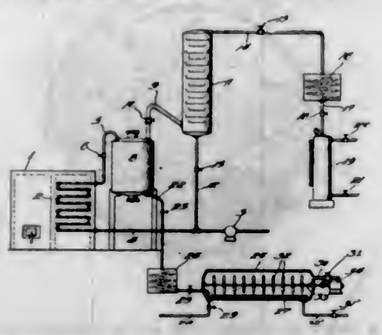
1. A process of cracking hydrocarbons consisting in dispersing in a liquid hydrocarbon oil at least 10% by volume of a solid bitumen in colloidal form, and in then subjecting the mixture to a cracking temperature while the same is maintained under a superatmospheric pressure.

1,688,860. PROCESS FOR CRACKING OIL. GUSTAV EGLOFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Oct. 31, 1921, Serial No. 511,714. Renewed Mar. 12, 1926. 3 Claims. (Cl. 196—49.)



1. A process for cracking hydrocarbon oil, consisting in raising the oil to a cracking temperature under a substantial pressure in an initial stage of conversion, dephlegmating and condensing the generated vapors from said stage, passing the unvaporized oil to a top fired secondary zone and there subjecting it to increased pressure and temperature conditions, dephlegmating and condensing the generated vapors relieved from the secondary zone of reaction and collecting them separately from those produced in the initial stage.

1,688,861. PROCESS OF CRACKING PETROLEUM OIL. GUSTAV EGLOFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Oct. 17, 1923, Serial No. 668,980. Renewed May 28, 1928. 2 Claims. (Cl. 196—37.)



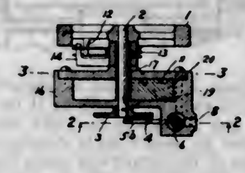
1. A process for treating the residuum accumulating in the reaction zone of an oil cracking apparatus, during the conversion of hydrocarbon oil, under heat and pressure, which consists in withdrawing the residuum from such reaction zone, in passing the same through a cooling zone, in then delivering the cooled residuum to a tank filled to at least fifty per cent of its capacity with liquid sulphur dioxide, in violently agitating the residuum and the liquid sulphur dioxide in said tank, in then ceasing the agitation and permitting the residuum constitutents and sulphur dioxide to stratify in upper and lower layers, in separately drawing off the constituents from said upper and lower layers, and in subjecting the separately withdrawn constituents to independent chemical treatments, to obtain lubricating stock from the upper stratum and cylinder stock from the lower stratum.

1,688,862. LIFTING JACK. CHARLES D. ELLWOOD, Racine, Wis., assignor to Walker Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Apr. 26, 1926. Serial No. 104,760. 6 Claims. (Cl. 254—6.)



1. In a lifting jack, a supporting frame, a bell crank lever pivoted in the frame to oscillate in a vertical plane and comprising a forwardly extending lifting arm and a downwardly extending power arm, a lifting head pivoted at the free end of the forwardly extending arm, means for maintaining the lifting head horizontal at all elevations, a push-rod guided for horizontal movement in the frame, power means for reciprocating the rod, a cross-head at the forward end of the rod, and means at the free end of the power arm of the bell-crank which swings in a vertical arc across the path of the push-rod and is engaged by the cross-head.

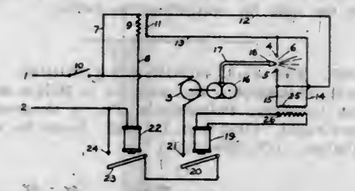
1,688,863. MILKING-MACHINE PULSATOR. SVEN JOHAN ERLING, Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 28, 1927, Serial No. 194,911, and in Sweden June 10, 1926. 11 Claims. (Cl. 31—61.)



1. A pulsating apparatus for milking machines, which comprises a regulating element adapted to transmit pulsations toward the teat cups, a driving device, an oscillatory fly-wheel mass adapted to actuate the regulating element, and means connecting the driving device and the fly-wheel mass adapted to transmit the power of the driving device to the fly-wheel mass during only a part of the latter's oscillation and to allow the fly-wheel mass to move independently of the driving device during a substantial part of its oscillation.

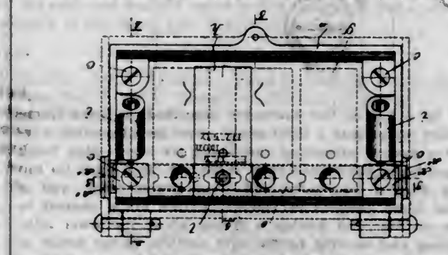
1,688,864. ELECTRICAL SPARK IGNITION MEANS FOR BURNERS. FRANK FISCHER, Larchmont, N. Y., and ARNOLD FRANCIS VAN PELT, Interlaken, N. J., assignors to Grant Oil Burner Corporation of Delaware, New York, N. Y. Filed July 8, 1927. Serial No. 204,330. 4 Claims. (Cl. 158—28.)

1. In a burner ignition control device, a power circuit, a transformer having its primary connected to the power circuit, a pair of spaced electrodes forming a spark gap for igniting the burner, said electrodes being connected to the secondary of the transformer, a relay switch having its coil in series with the transformer for opening the power circuit when the electrode circuit is too widely opened, a second transformer with one coil shunted across



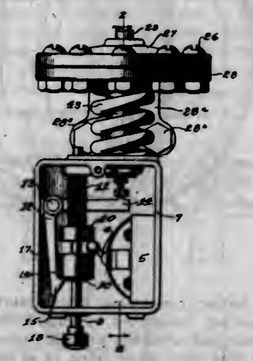
the electrodes and means controlled by said second transformer for opening the power circuit when the electrodes are short circuited.

1,688,865. MAGAZINE FOR TICKETS. PAUL GAGNEAU, Paris, France. Filed Mar. 18, 1926, Serial No. 95,689, and in France Apr. 3, 1925. 6 Claims. (Cl. 211—50.)



1. In a ticket control device, the combination of a box, a reserve ticket magazine connected to the rear wall of said box, a detachable main ticket magazine located in the front of the box and having detachable means for holding tickets, said detachable means being connected to the rear of said main magazine by fastening means non-accessible at the front of said main magazine, and at the rear of the rear wall of said box, and locking means adapted to hold said main magazine in position.

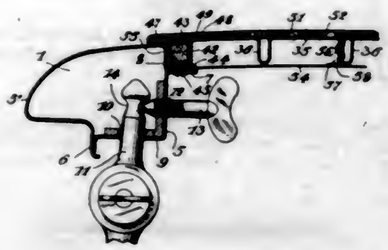
1,688,866. FLUID-PRESSURE-OPERATED ELECTRIC SWITCH. CHARLES C. HANSEN, Forest Park, Ill. Filed Nov. 5, 1923. Serial No. 672,832. 4 Claims. (Cl. 200—83.)



1. The combination of a switch, a housing in which the switch is disposed and by which the latter is supported, a fluid pressure operated actuator comprising a diaphragm and a casing, a sleeve on the actuator casing, a stem operable by the diaphragm and slidable in said sleeve, a spring outside of the actuator for retracting said stem, said spring extending around the sleeve and abutting against

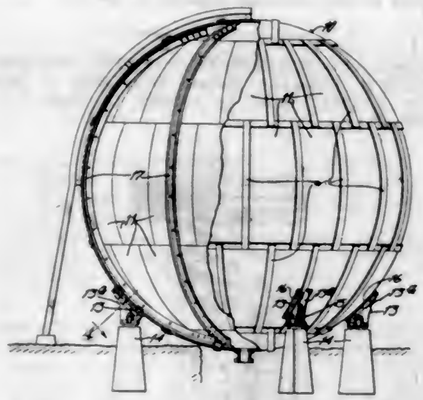
the switch-housing, and adjustable connection between the sleeve and said housing whereby the latter may be moved longitudinally with respect to the sleeve to vary the tension of the spring, and means in the housing operable by the stem for controlling the switch.

1,688,867. TOP FOR AUTOMOBILE BODIES. LEO I. HEINTZ, Philadelphia, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 15, 1923. Serial No. 662,823. 12 Claims. (Cl. 296—137.)



1. In a top of the character described, a front frame member comprising a light gauge sheet metal portion having transverse curvature and along its lower edge being flanged horizontally and then vertically, and along its top being flanged vertically and then horizontally, and a second light gauge sheet metal portion angle shaped in cross section, and having a flange along its lower edge abutting and secured to the said vertical flange which is at the lower edge of the first portion, and secured along its upper edge to the said horizontal flange which is at the upper edge of the first portion.

1,688,868. GAS HOLDER. GEORGE T. HORTON, Chicago, Ill. Filed June 11, 1927. Serial No. 198,245. 2 Claims. (Cl. 220—1.)



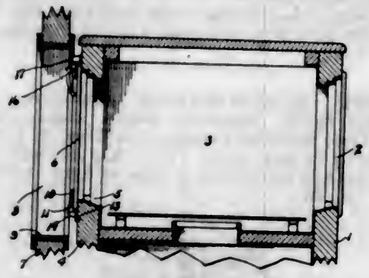
1. A gas holder comprising a substantially spherical shell substantially supported by supporting legs resting on foundations and attached at their upper ends to the shell on the line of a circle lying in a horizontal plane and having a diameter substantially less than the diameter of a great circle of said shell, and vertically arranged curved stiffening members attached to the inner wall of said shell extending from substantially the top of the shell to substantially the bottom of the same, one of said stiffening members being arranged adjacent each supporting leg.

1,688,869. METHOD OF MANUFACTURING TIRES. HENRY M. LAMBERT, Portland, Oreg., assignor to Lambert Tire & Rubber Co., Barberton, Ohio, a Corporation of Arizona. Filed Oct. 13, 1922. Serial No. 594,301. 1 Claim. (Cl. 18—55.)



The method of manufacturing cushion tires which consists in building up on a rim, a solid carcass body of approximately the outline or form of but of lesser cross sectional area than the desired tire, placing it between punching mold halves, said mold halves having portions forming a tire molding cavity of the desired size and having punching elements, bringing the mold halves with their punching elements together to enclose the rim and tire carcass and simultaneously punch holes in the same, and displacing the carcass material punched to fill the mold cavity, and subsequently vulcanizing the mass while in the mold and thereafter removing the mold halves from the mass so vulcanized.

1,688,870. REAR ICING DOOR FOR REFRIGERATORS. CHARLES H. LEONARD, Grand Rapids, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Sept. 21, 1925. Serial No. 57,531. 2 Claims. (Cl. 62—46.)

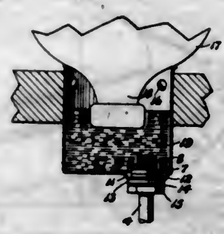


1. A refrigerator including an ice chamber having a front door opening and also an opening at the back of the ice chamber, a door for closing the front opening, socket members attached at spaced apart distances from each other to the back of the refrigerator below the back opening, said socket members including portions set at an angle to the vertical, wedging members, one for each socket member attached to and extending downwardly from a back door and adapted to enter said socket members and engage with said portions of the socket members, said wedging members being formed with cam portions or surfaces to engage against the socket members and force the door tightly to closed position, and means to detachably connect the door at its upper edge portion to said back of the refrigerator.

1,688,871. UNIVERSAL WATER-COOLER CONNECTION. CHARLES H. LEONARD, Grand Rapids, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 12, 1925. Serial No. 61,876. 5 Claims. (Cl. 62—44.)
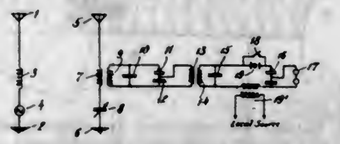
1. In combination with a refrigerator having a water carrying coil located inside thereof with a terminal end extending outwardly at the front of the refrigerator and an inlet end extending upwardly, of a fitting secured to the upper end of said inlet end of the coil, said fitting com-

prising a sleeve, having an integral outwardly extending flange between the ends of the sleeve, said sleeve being threaded externally on each side of said flange, a cup having an opening in its bottom through which the lower portion of said fitting extends, a binding nut threaded on to the lower end of the fitting and yieldable washers dis-



posed between said nut and the bottom of the cup and between said flange and the upper side of the bottom of said cup for permanently securing the cup to said fitting and making a water tight connection therewith, said cup being set into the upper part of the refrigerator through the top thereof.

1,688,872. DUPLEX WAVE SIGNALING SYSTEM. HAROLD M. LEWIS, Long Branch, N. J. Filed Aug. 14, 1920. Serial No. 403,560. 24 Claims. (Cl. 250—6.)



21. The method of signaling which comprises generating a carrier wave for outgoing transmission, receiving an incoming carrier wave, and combining said carrier waves to produce a combination frequency wave having a frequency above the usual range of audible sound frequencies.

1,688,873. PROCESS FOR RECOVERY OF POTASSIUM CHLORIDE. NORMAN M. MCGRANE, Long Beach, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed May 4, 1927. Serial No. 188,865. 9 Claims. (Cl. 23—36.)

1. The process for recovery of potassium chloride from materials containing chlorides and sulphates of potassium and sodium which comprises leaching such material with an aqueous solvent at a super-atmospheric temperature, continuing such leaching operation until the concentrations of sodium and of sulphate reach maximum values and then decrease materially below said maximum values while the concentrations of potassium and chloride continues to increase, separating the resulting solution from the solid material, cooling such solution to a temperature materially below the leaching temperature to cause precipitation of a salt consisting principally of potassium chloride, and then separating such salt from the mother liquor.

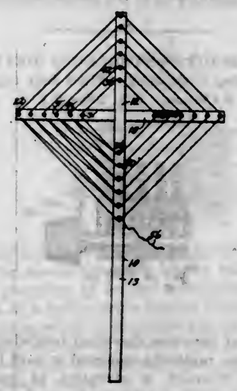
1,688,874. PIPE CLEANER. GODFREY MORGAN, Buffalo, N. Y. Filed Oct. 17, 1927. Serial No. 226,540. 4 Claims. (Cl. 131—13.)

3. A device of the class described comprising a tubular body which is open at its upper end to receive cleaning swabs and provided at its lower end with a fixed head having an opening in the central part thereof, a cap having a tubular wall adapted to fit the exterior of the lower end of said body and a head on said cap arranged below the fixed head of the body, a reaming rod secured at its lower end to the central part of the head of said cap and project-



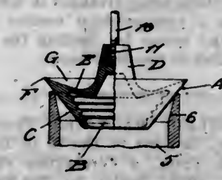
ing upwardly therefrom through the opening in said head of the body and into the space within the latter, and a cover secured to the upper end of said body.

1,688,875. LOOP AERIAL. PAUL D. MORRIS, Berlin, Md. Filed Dec. 3, 1927. Serial No. 237,545. 8 Claims. (Cl. 250—33.)



1. In an aerial, a frame comprising adjacent inwardly bowed cross members, insulators carried by said cross members and projecting from either side thereof, and a conductor supported by said insulators and arranged in a plurality of continuous loops wound alternately on either side of said cross members.

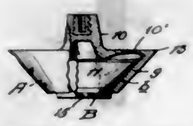
1,688,876. FLOAT VALVE. ELI J. PALMER, Los Angeles, Calif., assignor to California Production Company, Las Vegas, Nev., a Corporation of Nevada. Filed Sept. 30, 1926. Serial No. 138,662. 4 Claims. (Cl. 4—57.)



1. The combination with a valve seat having a frusto conical axial passage of a valve having frusto conical body of substantially lesser pitch than said frusto conical axial passage, the valve being formed of flexible material and being open at its lower end, a diaphragm wall at the upper

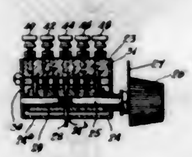
end of said valve body of substantially thinner material than the adjacent portions of the valve, a stem formed integral with said diaphragm wall and a pull-rod secured to said stem, the said thin diaphragm wall permitting said stem and pull-rod to have a universal movement relative to said body.

1,688,877. VALVE FOR FLUSH TANKS. ELI J. PALMER, Los Angeles, Calif., assignor to California Production Company, Las Vegas, Nev., a Corporation of Nevada. Filed Nov. 29, 1926. Serial No. 151,315. 4 Claims. (Cl. 4—56.)



1. As a new article of manufacture a partial closure element, for open mouthed hollow float valves, having a drain hole and an extension serving as a retainer for the closure element, said extension being sufficiently flexible to permit insertion of said element through the mouth of the valve, said extension overlying and reinforcing the greater portion of the lateral wall of the inside portion of the valve.

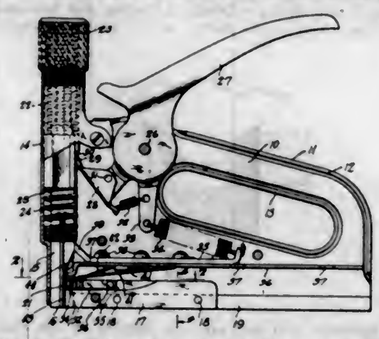
1,688,878. CIRCUIT-CONTROLLING DEVICE. CARLOS E. PATINO, New York, N. Y. Filed July 13, 1925. Serial No. 43,224. 9 Claims. (Cl. 200—6.)



9. A device of the class described comprising a U-shaped frame, a member rotatably mounted in said frame adjacent the crosshead thereof, a plurality of conducting pins mounted in connection with said member and insulated one from the other, a block of insulation material mounted in said frame adjacent said member, a plurality of contact disks mounted in said block, said disks being arranged in pairs, the separate pairs being insulated one from the other and the disks in each pair insulated from each other, means for coupling circuit wires with the separate disks, said disks being provided with projecting contact faces of different dimensions in the separate pairs, and said pins being adapted to be moved into and out of engagement with the contact faces of the separate pairs of disks to frictionally pass therebetween to complete the circuit between the contact faces in each pair, and the contact faces on the separate pairs of disks being arranged in different position with relation to a predetermined number of the other pairs of disks, and means for limiting the rotary movement of said member in two directions.

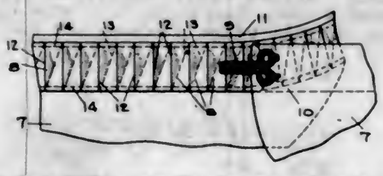
1,688,879. STAPLING MACHINE. FRIDOLIN POLZER, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a Corporation of Connecticut. Filed Feb. 24, 1928. Serial No. 256,556. 4 Claims. (Cl. 1—48.)

1. In a staple driving machine, a housing, a staple strip slide bar in the housing, a movable plunger for driving the individual staples, means for operating the plunger, means for feeding the staple to driving position, means on the outside of the staple strip to enter behind first staple on the strip when in driving position to prevent the prongs from turning back, and holdback means mounted on the



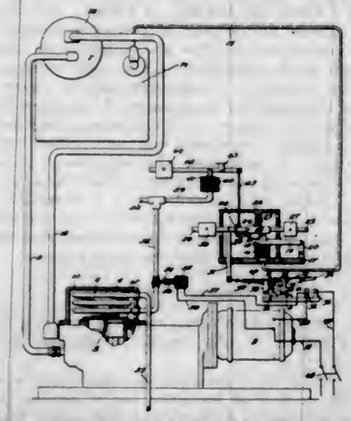
slide bar inside the staple strip to engage the rear edge of the second staple to prevent retrograde movement of the staple strip.

1,688,880. FASTENER FOR BARBERS' APRONS. GLEN L. POPE and ANE COHEN, Gretna, Nebr. Filed Apr. 20, 1928. Serial No. 271,497. 5 Claims. (Cl. 24—206.)



4. A fastener for connecting two opposed parts of an apron, one of said parts being provided with a hook, a strip of fabric wound spirally to provide a plurality of overlapping folds and secured to the opposed part of the apron, said overlapping parts of the folds being adapted to provide holders for said hook.

1,688,881. REFRIGERATOR. JOHN R. REPLOGLE, Detroit, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 21, 1921. Serial No. 471,317. 2 Claims. (Cl. 62—4.)



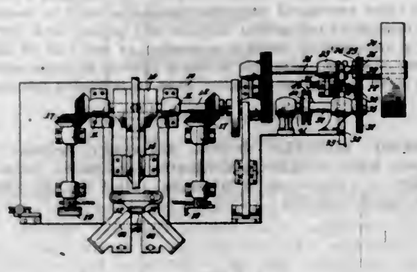
1. In an apparatus of the class described, a refrigerant system, a passage for cooling water associated therewith, an electrically actuated valve in said passage, a motor for

said system, an electric circuit connecting both the motor and the valve with an electric current supply, a switch in said circuit for opening and closing the same, fluid pressure actuated means mechanically connected to said switch for operating the same, and auxiliary means mechanically connected to said switch for opening it when the pressure in said water passage falls to a predetermined minimum, said auxiliary means operating independently of said fluid pressure means to actuate said switch.

1,688,882. ART OF CEMENT MANUFACTURE. WALTER A. SCHMIDT, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Sept. 21, 1927. Serial No. 221,142. 5 Claims. (Cl. 106—25.)

1. In the wet process of manufacturing Portland cement, the process comprising recovering dust from the kiln gases, mixing such dust separately with water and maintaining such dust and water in contact with one another for a period of time, and then introducing the resulting mixture into the raw mix slurry.

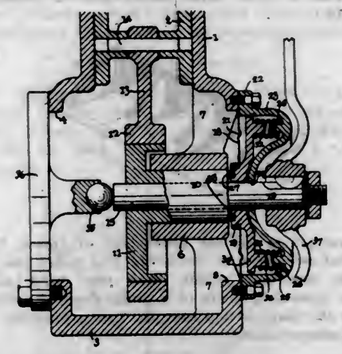
1,688,883. ELECTRIC CHAIN WELDER. JOHN SENFT, York, Pa., assignor to United States Chain and Forging Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 18, 1924, Serial No. 720,766. Renewed Aug. 21, 1928. 13 Claims. (Cl. 219—5.)



1. In an automatic electric chain welder, means for holding a chain link while it is being welded and for advancing the chain after each weld to bring an unwelded link to welding position, a drive shaft, means for supplying welding current to the link to be welded, and means automatically operated from said last mentioned means for automatically connecting said holding and advancing means to said drive shaft, and for automatically disconnecting said holding and advancing means from said drive shaft.

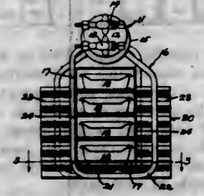
1,688,884. COMPRESSOR. CHARLES C. SPREEN, Detroit, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Nov. 6, 1924. Serial No. 748,069. 3 Claims. (Cl. 286—11.)

1. In a rotating shaft seal, the combination with a casing having an aperture, a bearing within said casing supported by spaced arms integral with the casing, and a shaft having a reduced portion forming a shoulder, the reduced portion of said shaft extending through the aperture in said casing; of a seal structure comprising an annular resilient corrugated diaphragm, a cap member for securing said diaphragm to said casing adjacent the periphery of the opening therein, anti-friction means including a spider having a hub portion and spaced arms projecting therefrom, for engaging the shoulder of said shaft, and means



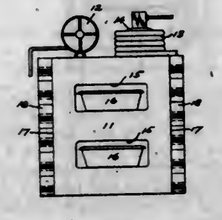
disposed between said cap member and said spider for maintaining said spider in positive engagement with said shaft.

1,688,885. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed June 3, 1926. Serial No. 113,473. 7 Claims. (Cl. 62—95.)



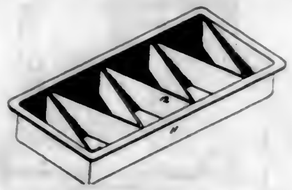
2. A refrigerant expansion unit comprising header means adapted for connection with looped refrigerant expansion tubes, a plurality of looped refrigerant expansion tubes connected at longitudinally spaced intervals to said header means, and a series of corrugated plates having high heat conductivity interposed between and extending beyond the sides of said looped tubes, and each engaging at least one of the adjacent tubes.

1,688,886. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed June 4, 1926. Serial No. 113,665. 1 Claim. (Cl. 62—95.)



For use in connection with a supply of compressed refrigerant, and in a refrigerator cabinet, and for cooling such cabinet, and under conditions which normally cause the accumulation of frost on the exterior of the brine tank thereof, a cooling unit comprising: such brine tank, a refrigerant expansion chamber within said brine tank, and a plurality of fins disposed on at least one of the exterior walls of said brine tank and extending outwardly therefrom a distance greater than the thickness to which such frost accumulates under normal operating conditions.

1,688,887. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 4, 1926. Serial No. 113,667. 2 Claims. (Cl. 62—111.)



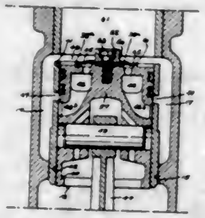
1. A receptacle for the production of frozen fluid in mechanical refrigerators consisting of a metal pan, and a removable partition within said pan, said partition structure consisting solely of a single sheet of metal bent to divide the space within said pan into a plurality of triangular compartments.

1,688,888. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 6, 1926. Serial No. 127,532. 2 Claims. (Cl. 62—111.)



1. A tray for freezing comestibles in a mechanical refrigeration system comprising a supporting rack provided with a plurality of openings, molds adapted to be removably secured in the openings of said rack, depending flange means associated with said rack adjacent the openings to retain said molds on said rack, and means intermediate the ends of said molds to cooperate with said flange means to retain said molds in said rack.

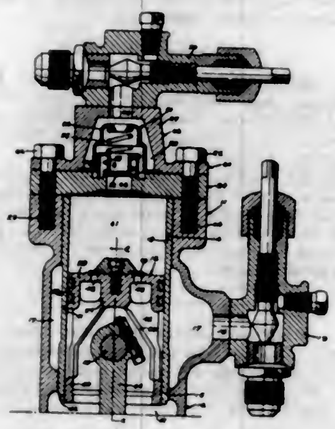
1,688,889. PISTON FOR REFRIGERATION PUMPS. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 30, 1926. Serial No. 145,153. 5 Claims. (Cl. 230—221.)



1. In a compressor, the combination of a piston having ports extending through the end wall, and a valve structure comprising a plate adapted to seat against the end wall of said piston to close the ports therethrough, a follower movable with said valve plate, and a retainer stud secured to the end wall of said piston for said follower and valve plate, said valve plate and follower being reciprocable relative to said stud and piston.

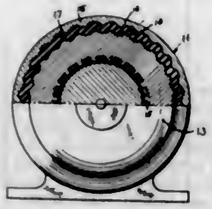
1,688,890. PUMP FOR MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 30, 1926. Serial No. 145,157. 1 Claim. (Cl. 230—190.)

In a compressor for refrigerating apparatus, a cylinder casing having an intake chamber encircling a portion thereof, a sleeve in said casing having intake ports extending in a direction axially thereof and in open communication with said intake chamber, a piston in said sleeve having a plurality of passages extending from the side wall and through the top wall thereof, said sleeve ports being of greater length than the distance between the inlet end of



said piston passages and the piston end wall, and a movable valve associated with the piston end wall to control the passage of refrigerant through said piston, said piston being arranged to uncover a portion of one end of said sleeve ports and with the passages therein in communication with said intake chamber when in retracted position.

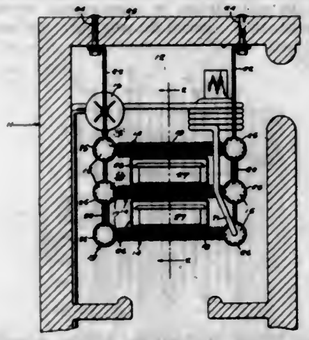
1,688,891. ELECTRIC-MOTOR. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 10, 1927. Serial No. 160,294. 3 Claims. (Cl. 172—36.)



1. A vibration reducing construction for an electric motor comprising a motor frame, a motor stator, and intermediate resilient means interposed between said stator and said frame and supporting said stator in said frame held only resiliently against both rotary and translatory movements relative to said frame.

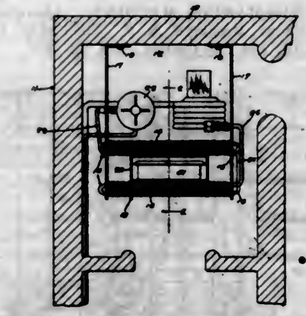
1,688,892. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed Jan. 29, 1927. Serial No. 164,426. 3 Claims. (Cl. 62—95.)

1. Refrigerant expansion apparatus comprising: a plurality of refrigerant expansion units formed substantially identical, and each comprising a refrigerant expansion compartment, consisting of a pair of headers with connecting tubes; fin means on said connecting tubes; ice tray receptacles carried by said fin means; a framework connecting said refrigerant expansion compartments into a single re-



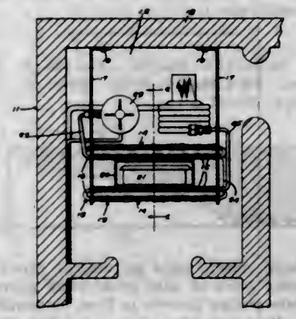
frigerant expansion unit; and conduits connecting said headers into a single refrigerant expansion chamber.

1,688,893. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed Jan. 29, 1927. Serial No. 164,427. 4 Claims. (Cl. 62—95.)



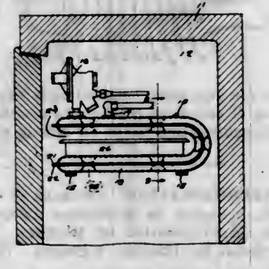
1. Refrigerant expansion apparatus comprising; a plurality of refrigerant expansion units formed substantially identical, and each comprising a refrigerant expansion compartment, having the form of a spiral tube; fin means on said spiral tubes; ice tray receptacles supported by said fin means; a framework connecting said spiral tubes into a single refrigerant expansion unit; and means connecting said spiral tubes into a single refrigerant expansion chamber.

1,688,894. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed Jan. 29, 1927. Serial No. 164,428. 3 Claims. (Cl. 62—95.)



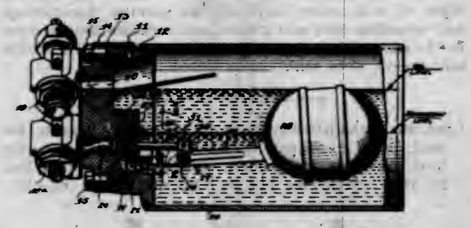
1. Refrigerant expansion apparatus comprising; a plurality of refrigerant expansion units formed substantially identical, and each comprising a refrigerant expansion compartment, having the form of a spiral tube; fin means carried by the separate turns of each of said spiral tubes; ice tray receptacles supported by said fin means; a framework connecting said spiral tubes into a single refrigerant expansion unit; and means connecting said spiral tubes into a single refrigerant expansion chamber.

1,688,895. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 29, 1927. Serial No. 164,429. 4 Claims. (Cl. 62—95.)



2. In a mechanical refrigerating system, a refrigerant expander unit including two sheet metal plates joined at their peripheral edges and bent to form a container of substantially U-shape, the legs of said container being spaced to form a tray receiving recess therebetween, and spacing means intermediate the peripheral edges of said plates within said container.

1,688,896. REFRIGERANT-CONTROL MECHANISM. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 29, 1927. Serial No. 164,434. 5 Claims. (Cl. 137—104.)

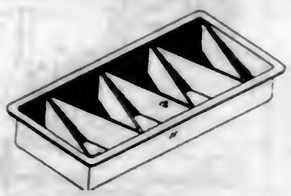


2. In refrigerating apparatus of the class described, a vessel adapted to contain a liquefied refrigerant, said vessel having refrigerant passages through its wall, a removable valve seat extending into the interior end of the inlet passage in said vessel, a valve element in said vessel arranged to co-operate with said seat, float mechanism for actuating said valve element, and a bracket removably secured to the wall of said vessel positively retaining said valve seat in said passage, said bracket carrying said valve element and said float mechanism.

1,688,897. SUPPORTING MEANS FOR VAPORIZERS. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 31, 1927. Serial No. 164,981. 5 Claims. (Cl. 62—95.)

1. A supporting structure for fixing the cooling unit of a mechanical refrigerating apparatus in a chamber of a refrigerator through which air circulates, comprising sub-

1,688,887. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 4, 1926. Serial No. 113,667. 2 Claims. (Cl. 62—111.)



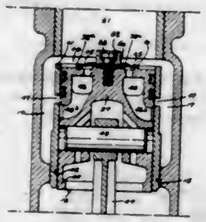
1. A receptacle for the production of frozen fluid in mechanical refrigerators consisting of a metal pan, and a removable partition within said pan, said partition structure consisting solely of a single sheet of metal bent to divide the space within said pan into a plurality of triangular compartments.

1,688,888. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 6, 1926. Serial No. 127,532. 2 Claims. (Cl. 62—111.)



1. A tray for freezing comestibles in a mechanical refrigeration system comprising a supporting rack provided with a plurality of openings, molds adapted to be removably secured in the openings of said rack, depending flange means associated with said rack adjacent the openings to retain said molds on said rack, and means intermediate the ends of said molds to cooperate with said flange means to retain said molds in said rack.

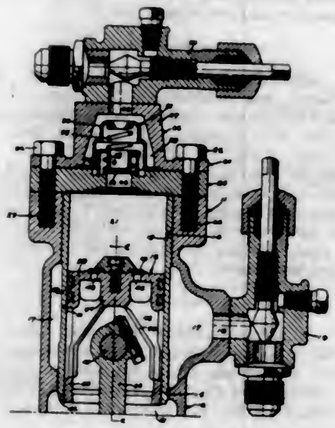
1,688,889. PISTON FOR REFRIGERATION PUMPS. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 30, 1926. Serial No. 145,153. 5 Claims. (Cl. 230—221.)



1. In a compressor, the combination of a piston having ports extending through the end wall, and a valve structure comprising a plate adapted to seat against the end wall of said piston to close the ports therethrough, a follower movable with said valve plate, and a retainer stud secured to the end wall of said piston for said follower and valve plate, said valve plate and follower being reciprocable relative to said stud and piston.

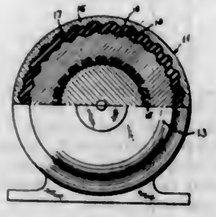
1,688,890. PUMP FOR MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 30, 1926. Serial No. 145,157. 1 Claim. (Cl. 230—190.)

In a compressor for refrigerating apparatus, a cylinder casing having an intake chamber encircling a portion thereof, a sleeve in said casing having intake ports extending in a direction axially thereof and in open communication with said intake chamber, a piston in said sleeve having a plurality of passages extending from the side wall and through the top wall thereof, said sleeve ports being of greater length than the distance between the inlet end of



said piston passages and the piston end wall, and a movable valve associated with the piston end wall to control the passage of refrigerant through said piston, said piston being arranged to uncover a portion of one end of said sleeve ports and with the passages therein in communication with said intake chamber when in retracted position.

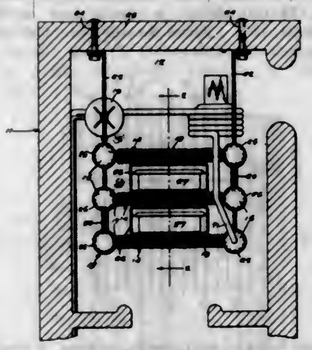
1,688,891. ELECTRIC-MOTOR. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 10, 1927. Serial No. 160,294. 3 Claims. (Cl. 172—36.)



1. A vibration reducing construction for an electric motor comprising a motor frame, a motor stator, and intermediate resilient means interposed between said stator and said frame and supporting said stator in said frame held only resiliently against both rotary and translatory movements relative to said frame.

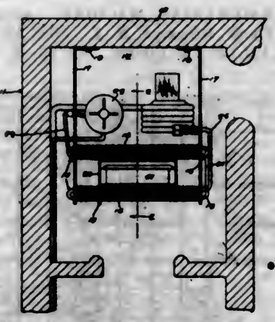
1,688,892. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed Jan. 29, 1927. Serial No. 164,426. 3 Claims. (Cl. 62—95.)

1. Refrigerant expansion apparatus comprising: a plurality of refrigerant expansion units formed substantially identical, and each comprising a refrigerant expansion compartment, consisting of a pair of headers with connecting tubes; fin means on said connecting tubes; ice tray receptacles carried by said fin means; a framework connecting said refrigerant expansion compartments into a single re-



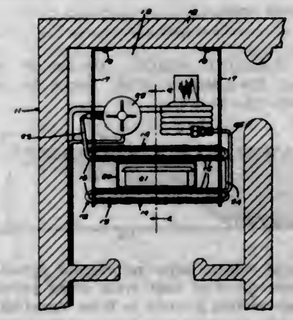
frigerant expansion unit; and conduits connecting said headers into a single refrigerant expansion chamber.

1,688,893. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed Jan. 29, 1927. Serial No. 164,427. 4 Claims. (Cl. 62—95.)



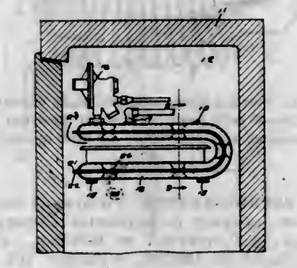
1. Refrigerant expansion apparatus comprising: a plurality of refrigerant expansion units formed substantially identical, and each comprising a refrigerant expansion compartment, having the form of a spiral tube; fin means on said spiral tubes; ice tray receptacles supported by said fin means; a framework connecting said spiral tubes into a single refrigerant expansion unit; and means connecting said spiral tubes into a single refrigerant expansion chamber.

1,688,894. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed Jan. 29, 1927. Serial No. 164,428. 3 Claims. (Cl. 62—95.)



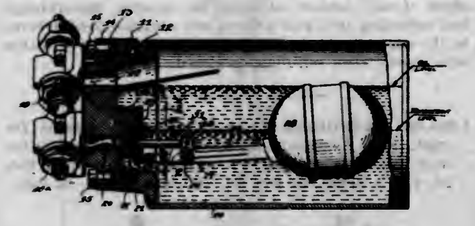
1. Refrigerant expansion apparatus comprising: a plurality of refrigerant expansion units formed substantially identical, and each comprising a refrigerant expansion compartment, having the form of a spiral tube; fin means carried by the separate turns of each of said spiral tubes; ice tray receptacles supported by said fin means; a framework connecting said spiral tubes into a single refrigerant expansion unit; and means connecting said spiral tubes into a single refrigerant expansion chamber.

1,688,895. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 29, 1927. Serial No. 164,429. 4 Claims. (Cl. 62—95.)



2. In a mechanical refrigerating system, a refrigerant expander unit including two sheet metal plates joined at their peripheral edges and bent to form a container of substantially U-shape, the legs of said container being spaced to form a tray receiving recess therebetween, and spacing means intermediate the peripheral edges of said plates within said container.

1,688,896. REFRIGERANT-CONTROL MECHANISM. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 29, 1927. Serial No. 164,434. 5 Claims. (Cl. 137—104.)

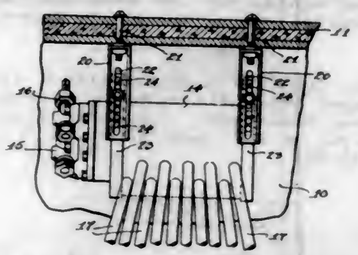


2. In refrigerating apparatus of the class described, a vessel adapted to contain a liquefied refrigerant, said vessel having refrigerant passages through its wall, a removable valve seat extending into the interior end of the inlet passage in said vessel, a valve element in said vessel arranged to co-operate with said seat, float mechanism for actuating said valve element, and a bracket removably secured to the wall of said vessel positively retaining said valve seat in said passage, said bracket carrying said valve element and said float mechanism.

1,688,897. SUPPORTING MEANS FOR VAPORIZERS. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 31, 1927. Serial No. 164,981. 5 Claims. (Cl. 62—95.)

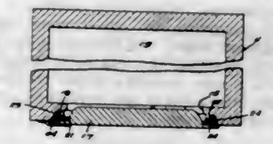
1. A supporting structure for fixing the cooling unit of a mechanical refrigerating apparatus in a chamber of a refrigerator through which air circulates, comprising sub-

stantially L shape brackets fixed within said chamber, stirrups for suspending said cooling unit in said chamber, and means for rigidly connecting said stirrups to said



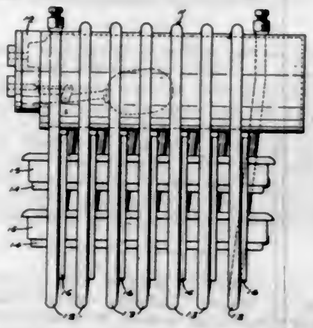
brackets, said stirrups being longitudinally adjustable relative to one leg of said fixed brackets to position said cooling unit in desired relation in the air flow in said chamber.

1,688,898. REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Feb. 21, 1927. Serial No. 169,756. 5 Claims. (Cl. 20—69.)



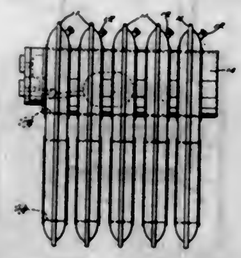
1. The combination with a cabinet provided with an opening through the wall of said cabinet to permit access to the interior thereof, said wall having a groove adjacent the opening therethrough and a door for closing the opening in said cabinet, said door being adapted to close the groove when the opening is closed; of sealing means comprising a resilient strip of metal secured to the edges of said cabinet adjacent the opening therethrough and extending into said groove, and a rubber bead secured to the edge of said door to contact with said strip within said groove when said door is closed.

1,688,899. REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Feb. 21, 1927. Serial No. 169,757. 9 Claims. (Cl. 62—95.)



4. In a mechanical refrigerating system, a cooling unit including a liquid refrigerant container, and a continuous brine containing coil extending around and having regularly spaced portions of the length thereof engaging said container.

1,688,900. MECHANICAL REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, M'ch., a Corporation of Michigan. Filed Feb. 21, 1927. Serial No. 169,760. 6 Claims. (Cl. 62—95.)



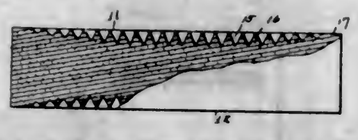
1. In a mechanical refrigerating system, a cooling unit including a liquid refrigerant container, and a plurality of spaced parallel closed hollow brine receptacles surrounding said container, said receptacles having aligned apertures through which said container extends.

1,688,901. BAG-MAKING MACHINE. ABRAHAM STONE and MAX FROST, Brooklyn, N. Y. Filed May. 16, 1927. Serial No. 191,730. 20 Claims. (Cl. 93—8.)



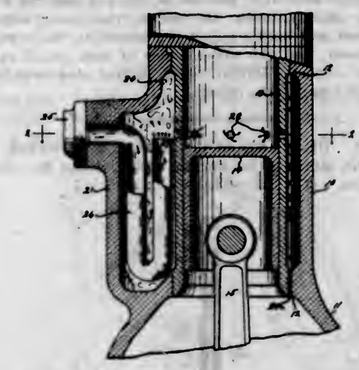
1. In a bag-making machine, the sub-combination of cutting mechanism adapted to sever strips from the edge portions of a blank, adhesive-applying mechanism aligned with said cutting mechanism, longitudinally slidable feed rods having two pairs of feed fingers pivoted thereto, a table on which said blank is adapted to rest and having longitudinal slots in which said fingers are adapted to move, links pivotally connected to said fingers above their pivotal connections to said feed rods, and means adapted to reciprocate said links.

1,688,902. BUILDING BRICK. HALVER R. STRAIGHT, Adel, Iowa. Filed Mar. 8, 1926. Serial No. 93,241. 2 Claims. (Cl. 72—37.)



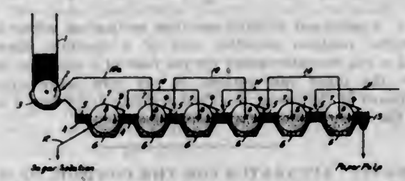
1. A brick of substantially rectangular formation, two of the opposite faces of said brick being provided with a series of intersecting grooves to form outwardly projecting members, the grooves being deeper at their central portions than at their ends, and so proportioned that the drying surface of said opposite faces will be gradually increased from their edges to their central portions.

1,688,903. COMPRESSOR FOR REFRIGERATING APPARATUS. MELBOURNE E. THOMPSON, Detroit, Mich., assignor to Trippensee Sales and Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 16, 1927. Serial No. 199,273. 2 Claims. (Cl. 230—211.)



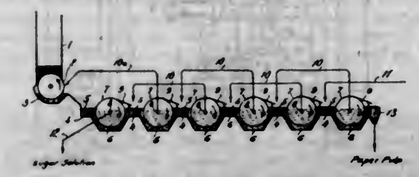
1. In a refrigerating compressor a cylinder, an intake chamber for refrigerant in the form of a jacket around said cylinder, a refrigerant inlet for said chamber, an outlet for refrigerant from said chamber to said cylinder, and a liquid collector and vaporizer connected to said inlet and located within said chamber.

1,688,904. PROCESS FOR SIMULTANEOUSLY MAKING SUGAR AND PAPER PULP FROM CANE. EUGENIO ANTONIO VAZQUEZ, Habana, Cuba, assignor to Vazcane Process, Inc., a Corporation of Delaware. Filed Aug. 30, 1927, Serial No. 216,348, and in Cuba June 2, 1927. 10 Claims. (Cl. 127—45.)



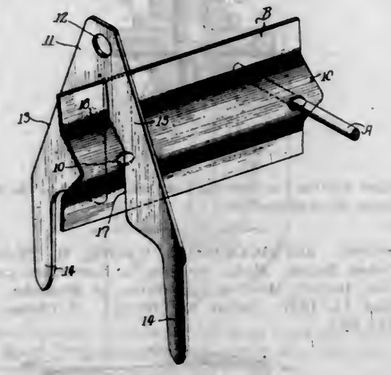
1. A process for recovering sugar from fibrous vegetable materials which comprises separating the material into fibers, agitating the fibers in a leaching liquid, separating the liquid from the undissolved fibers, and recovering the sugar from the leaching liquid.

1,688,905. APPARATUS FOR SIMULTANEOUSLY MAKING SUGAR AND PAPER PULP FROM CANE. EUGENIO ANTONIO VAZQUEZ, Habana, Cuba, assignor to Vazcane Process, Inc., a Corporation of Delaware. Original application filed Aug. 30, 1927, Serial No. 216,348, and in Cuba June 2, 1927. Divided and this application filed Apr. 3, 1928. Serial No. 267,036. 15 Claims. (Cl. 127—4.)



1. An apparatus for preparing sugar-cane for the recovery of sugar and fiber pulp which comprises an abrasive surface moving in contact with the sugar-cane whereby the sugar-cane is separated into fibers, and a source of liquid for wetting said abrasive surface.

1,688,906. ROAD-STRIP SUPPORT. WILLIAM E. WHITE, Chicago, Ill., assignor to Kalman Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 11, 1926. Serial No. 140,884. 5 Claims. (Cl. 94—51.)



1. A device for co-operation with a channel road strip, having a notch at the extreme of the channel comprising pronged strip holding device adapted to straddle the strip and to engage with the notch in the channel thereof.

1,688,907. SUPPORT FOR ROAD STRIPS. WILLIAM E. WHITE, Chicago, Ill., assignor to Kalman Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 11, 1926. Serial No. 140,885. 3 Claims. (Cl. 94—51.)

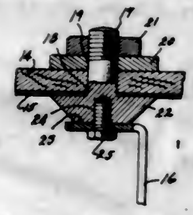


1. In a device for co-operation with a road strip having vertically aligned holes in the channel thereof, the combination of an apertured head, having a prong adapted to enter the apertures, and a stake passing through the aperture in the head and alongside of the strip and adapted to be driven into the soil for holding the strip against movement in all directions.

1,688,908. REFRIGERATOR. WALTER H. WHITTIER, Grand Rapids, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed July 26, 1926. Serial No. 124,866. 3 Claims. (Cl. 62—95.)

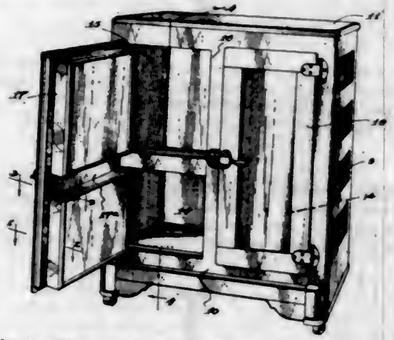
2. A supporting device for anchoring a brine tank carrier within the cooling chamber of a refrigerator comprising an anchor element extending through and entirely supported by a wall of the refrigerator casing, said anchor

having a flanged portion within the cooling chamber adjacent the lining thereof, and means co-operating with said



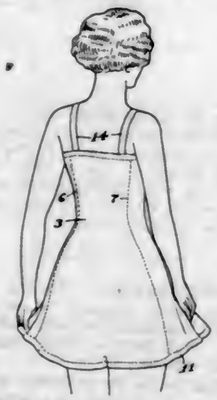
flanged portion for securing said tank carrier to the flanged portion of said anchor.

1,688,909. REFRIGERATOR. WALTER H. WHITTIER, Grand Rapids, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 14, 1927. Serial No. 191,322. 5 Claims. (Cl. 62—89.)



1. In a refrigerated food storage cabinet, a horizontal partition dividing said cabinet into a refrigerating chamber and a refrigerated chamber, said cabinet having openings through the front wall to permit access to each of said chambers, and a single door closing the openings, said door having a groove adapted to receive the front portion of said partition.

1,688,910. UNDERGARMENT. CHARLES N. WINSHIP, Wakefield, Mass., assignor to Winship, Bolt & Co., a Copartnership consisting of Charles N. Winship and Elizabeth E. Bolt, Wakefield, Mass. Filed Mar. 13, 1926. Serial No. 94,587. 1 Claim. (Cl. 2—78.)



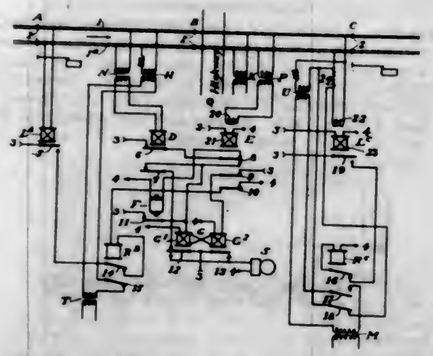
A lady's undergarment comprising a front section forming the greater part of the body of the garment, said front section being of approximately rectangular form with a slit extending for a considerable distance upwardly from the central part of the lower edge thereof, a tapered gusset sewed to the opposite edges of said slit, a back panel sewed to the opposite edges of said front section, said panel being relatively narrow at its top and waist and widening rapidly below the waist, the lower edges of said gusset and back panel being united in the crotch of the garment, and the lower edges of said panel extending from opposite lateral edges thereof downwardly toward each other to the crotch.

1,688,911. BILLIARD CUE. ROBERT B. WOLPERT, Minneapolis, Minn. Filed Apr. 22, 1927. Serial No. 185,833. 5 Claims. (Cl. 273—68.)



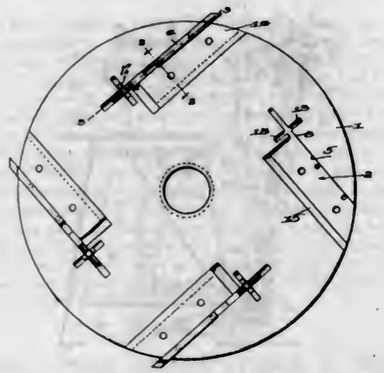
1. A sectional billiard cue, one section of which has a tubular resilient metallic core of a constant diameter, and a non-metallic casing for the core of a constant diameter, the inner end portion of the core being extended outward of the casing to afford a shank fitted into a socket in the other section of the billiard cue.

1,688,912. APPARATUS FOR THE CONTROL OF HIGHWAY-CROSSING SIGNALS. HENRY S. YOUNG, Wilkinsburg, and ROBERT M. GILSON, Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1926. Serial No. 140,010. 7 Claims. (Cl. 246—130.)



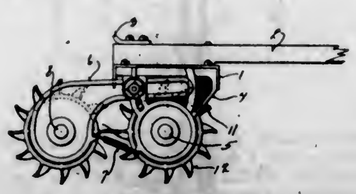
7. In combination, a section of railway track, a source of signaling current connected with the rails at one end of said section, a track relay connected with the rails at the other end of said section, means including a coding device for at times applying periodically interrupted alternating train control current to the rails at the relay end of said section, a resistance interposed between said relay and one of the rails of said section, and means controlled by said coding device for closing a shunt around said resistance when train control current is not being supplied to the rails and for opening said shunt when train control current is being supplied to the rails.

1,688,913. COPE HEAD FOR TENONERS AND THE LIKE. HARRY T. AHRENDT, Dubuque, Iowa. Filed May 11, 1927. Serial No. 190,471. 9 Claims. (Cl. 144—230.)



1. A cope head having an elongated channel shaped recess in one of its faces, a gib slidably seated in the bottom of the recess, a knife resting on the gib and guided by a wall of the recess, means for simultaneously adjusting the gib and knife lengthwise inwardly and outwardly, and means for locking the knife and gib in the recess.

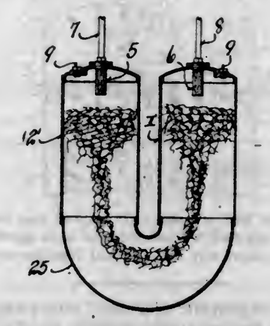
1,688,914. SOIL-PULVERIZING MACHINE. HENRY ARIENS, Brillion, Wis., assignor to Brillion Iron Works, Brillion, Wis. Filed May 21, 1927. Serial No. 193,196. 3 Claims. (Cl. 55—24.)



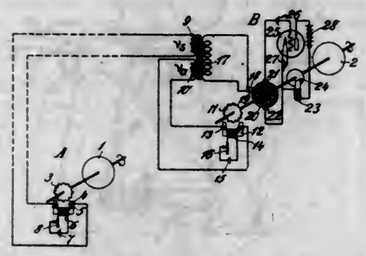
1. The combination of a machine adapted to be drawn over the ground and provided with a pair of spaced and parallel shafts, a series of wheels carried by each shaft and adapted to dig into the ground with the wheels of one series staggered with reference to the wheels of the other series, one series consisting of wheels with their teeth staggered and curved and adapted to enter the ground substantially vertically and to underhang the ground as they rise therefrom.

1,688,915. APPARATUS FOR TREATING LIQUIDS. JOHN ASTROM, Fort Wayne, Ind., assignor of one-half to Deister Machine Company, Fort Wayne, Ind., a Corporation. Filed Dec. 10, 1926. Serial No. 153,885. 8 Claims. (Cl. 210—24.)

1. A liquid treating device comprising two compartments, one end of one compartment permanently communicating with one end of the other compartment, means for passing liquid in either direction through said compartments, and liquid treating means carried within said compartments and their communicating parts, the communicating parts being of comparatively large cross section so that the liquid treating means will freely pass into the communicating parts.



1,688,916. MEANS FOR SYNCHRONIZING TWO OR MORE ROTATING BODIES. WALTHER BOCK, Berlin-Schoneberg, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Dec. 9, 1927, Serial No. 238,982, and in Germany Dec. 11, 1926. 10 Claims. (Cl. 172—293.)

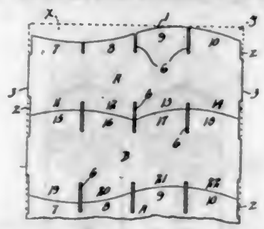


1. Apparatus for maintaining two or more rotating bodies in complete synchronism, comprising, in combination, means for producing a synchronizing alternating current with a periodicity corresponding to the speed of one rotating body and having a distinct phase relationship with respect to it, means to transmit said synchronizing current to another rotating body to be operated synchronously with said first mentioned rotating body, means similar to said first mentioned means for producing an auxiliary alternating current with a periodicity corresponding to the speed of said second rotating body to be synchronized and having a distinct phase relationship with respect to it, a rotating commutator driven wtih said second rotating body to be synchronized and designed to effect commutation synchronously with said second rotating body to be synchronized, the A. C. input side of said commutator being supplied by a current attained by superposition of said synchronizing and said auxiliary currents, and a speed controlling device acting on said rotating body to be synchronized and operated by the mean value of the commutated current supplied by the output side of said commutator.

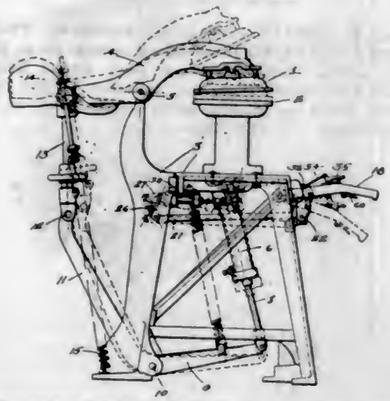
1,688,917. SHINGLE. LEON BUSHA, Minneapolis, Minn. Filed Apr. 9, 1926. Serial No. 100,855. 2 Claims. (Cl. 108—7.)

1. Roofing material for thatched roofs comprising two shingle strips cut from a sheet of material forming a four-sided figure having two opposite straight and parallel sides, said strips being cut transversely so that they have their

remote sides irregularly curved and substantially parallel and the contiguous sides so cut that the sides of each strip adjacent one end are oppositely curved and said sides adjacent its other end are similarly curved and substantially parallel, the opposite curved sides of each sheet being non-symmetrical about any axis located therebetween.

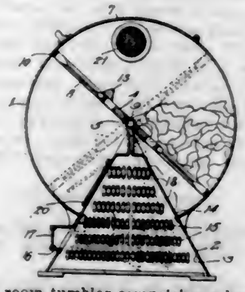


1,688,918. PRESSURE CONTROL FOR PRESSING MACHINES. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 7, 1927. Serial No. 181,872. 18 Claims. (Cl. (Cl. 68—9.)



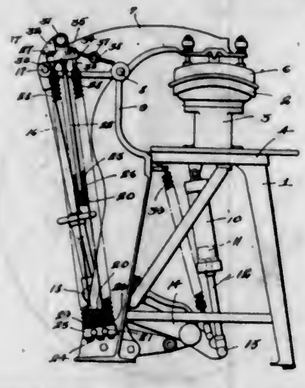
1. A pressing machine comprising cooperating elements, one of which is movable toward and from the other, power means including a motor for actuating the movable element, and operator controlled means for adjusting the pressure including mechanism for shifting the position of the motor.

1,688,919. DRYING-ROOM TUMBLER. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed June 23, 1927. Serial No. 200,981. 6 Claims. (Cl. 34—7.)



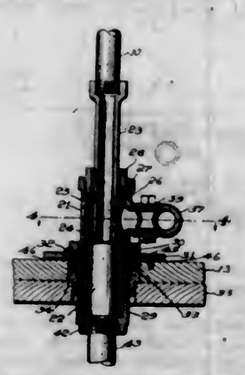
1. A drying room tumbler comprising a horizontal cylindrical body, an oscillating support mounted in the body to oscillate about the axis of the body above and below the horizontal plane of such axis, the support having air passages therethrough and slidably fitting the body whereby it acts with the clothes thereon as a rotary piston, an air chamber extending into the lower part of the body and having a check valve controlled outlet into the body arranged to prevent passage of air under the suction action of the support with the clothes thereon from the body into the air chamber.

1,688,920. PRESSING MACHINE. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 22, 1927. Serial No. 228,042. 9 Claims. (Cl. 68—9.)



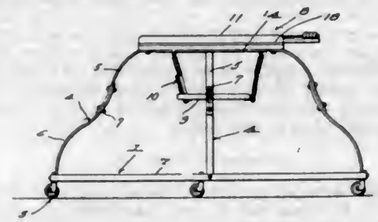
1. A pressing machine comprising a pair of co-operating pressing elements one of which is movable toward and from the other, motor means for actuating the movable element, and retarding mechanism normally idle and arranged to come into action to act against the motor means as the movable element approaches its final pressing position.

1,688,921. PIPE FITTING. WALTER G. DOWS, Dorchester, Mass. Filed Mar. 11, 1925. Serial No. 14,728. 19 Claims. (Cl. 137—69.)



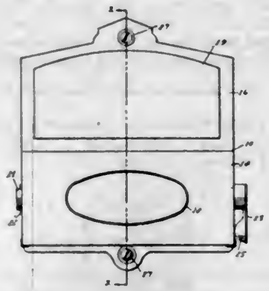
1. In combination with a riser for heating fluids, a hollow casing constructed to form a connection between two sections of the riser and having a threaded outer surface, a neck leading from one side of the casing and adapted to be connected to a branch pipe, an internally threaded sleeve adjustably engaging the threads of the casing and having a centering portion adapted to fit a hole in the floor and center the casing, a laterally extending flange upon the sleeve that rests upon the floor, and the sleeve being adjustable lengthwise of the casing to raise and lower the latter.

1,688,922. BABY WALKER. JOHN DRINOSKY, Jr., Niles, Ohio. Filed Feb. 23, 1927. Serial No. 170,285. 1 Claim. (Cl. 155—22.)



In a baby walker of the class described, a base ring, casters connected to said ring at circumferentially spaced points, supporting legs connected with the ring at circumferentially spaced points and composed of upper and lower slidably connected sections, the upper ends of the upper sections being directed laterally and inwardly toward each other, an annulus rigidly fastened to said inturned ends, a second annulus superimposed upon the first annulus, and relatively rotatable with respect to the latter, the second named annulus having its inner edge downturned, a keeper strip carried by said down turned edge and engaged beneath said first named annulus, facing plates carried by the opposed faces of said annuli, one of said plates having its outer edge formed with an upstanding flange providing confining means and spacing means, and anti-friction balls disposed between said facing plates.

1,688,923. TWINE HOLDER. THOMAS P. HARRIS, Clarinda, Iowa. Filed Jan. 25, 1927. Serial No. 163,309½. 4 Claims. (Cl. 242—146.)

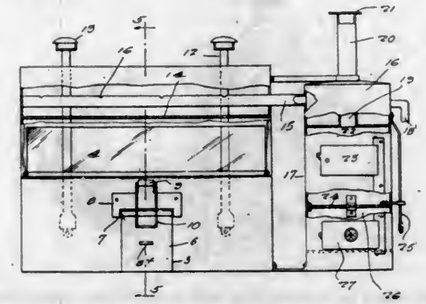


1. A twine holder comprising a body portion formed of a single piece of sheet metal having a bottom provided with a twine receiving opening, end, front and top members, the top being provided with a flat and upwardly projecting back member, a windlass rotatively mounted in said end members, means for rotating said windlass, and means mounted on said windlass for fastening the end of twine thereto.

1,688,924. PROCESS FOR ORNAMENTING SHEET MATERIAL. RAYMOND HARVEY, New York, N. Y., and HARRY V. DAY, Pequannock Township, Morris County, N. J., assignors to The Pantasote Leather Company, Passaic, N. J., a Corporation of New Jersey. Filed July 1, 1926. Serial No. 119,984. 5 Claims. (Cl. 41—26.)

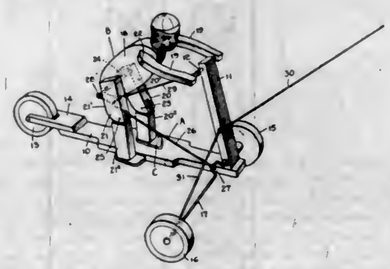
1. A process for ornamenting flexible sheet material which consists in covering the material with a pattern or stencil, spraying a color containing a fixing means against the stencil or pattern, and applying a coat over the entire material to cloud over sharply defined irregular outlines and to produce a diffused effect thereon.

1,688,925. BROODER. OLE J. HAUGEN, Mapes, N. Dak. Filed Apr. 24, 1926. Serial No. 104,422. 1 Claim. (Cl. 119—34.)



A brooder comprising a casing body having a compartment to receive chicks, means for heating said compartment, a sub-casing in communication with the interior of said compartment at one end thereof and having an inclined transparent top and also having a vertically disposed opening in said top at a point adjacent to the compartment and further having an opening in its wall remote from the compartment, a door for the latter opening, means for detachably securing said door in open position, a vertically movable curtain between the interior of the said compartment and the interior of the sub-casing, spring actuated means in the lower part of the casing body for taking up or lowering said curtain, and means movable through the said opening in the top of the sub-casing through the medium of which the curtain may be raised and the lowering of the curtain may be controlled.

1,688,926. SCOOTER FIGURE WHEELED TOY. JOHN L. HENRY, Albany, Tex. Filed June 3, 1926, Serial No. 113,384. Renewed Feb. 28, 1928. 12 Claims. (Cl. 46—45.)

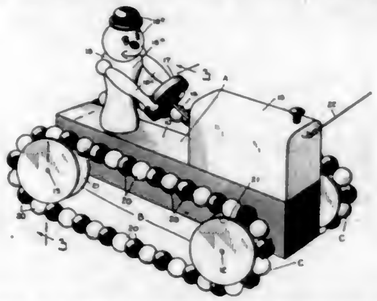


1. A figure wheeled toy comprising a simulated scooter vehicle embodying a frame having a running board and wheels carried by the frame, an articulated toy figure simulating an occupant of the vehicle mounted on the scooter vehicle, said toy figure including a body member, a leg member connecting the body member to the running board and a second leg member connected to the body member and mounted free of said running board, said second leg member being movably mounted so as to simulate propelling contact with a support on which the toy is placed, and means whereby propulsion of the vehicle along the support causes the articulated figure toy to move to simulate occupant-propelling activity.

1,688,927. FIGURE WHEELED TOY. JOHN L. HENRY, Albany, Tex. Filed Sept. 17, 1926, Serial No. 136,018. Renewed Feb. 28, 1928. 8 Claims. (Cl. 46—45.)

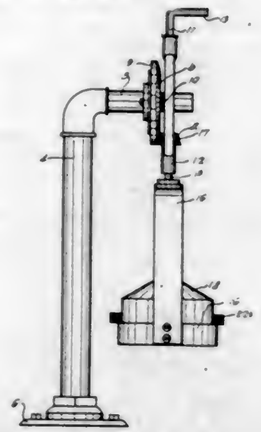
1. A vehicle toy simulating a tractor comprising a vehicle body, a pair of front wheels and a pair of rear

wheels thereon, and traction belts trained over and connecting the front and rear wheels, each tranction belt



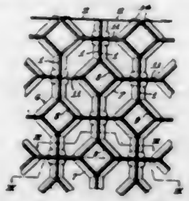
comprising an endless cord and beads having bores therethrough, said beads being loosely strung on said cord, said beads defining the traction elements.

1,688,928. CASTING APPARATUS. BERT L. HOOPER, Lincoln, Nebr. Filed May 5, 1927. Serial No. 188,937. 2 Claims. (Cl. 22—65.)



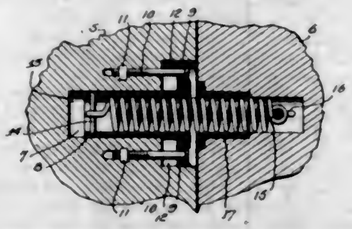
1. A centrifugal casting machine comprising a standard support having an angular arm, a fixed gear wheel on said angular arm, a frame pivoted coaxially of said gear wheel to rotate, in a substantially vertical plane, a mold holder carried to revolve with said frame and mounted to rotate about its own axis, a pinion fixed to the mold holder and enmeshed with said fixed gear wheel, and a handle on the frame opposite the mold holder.

1,688,929. CELLULAR RADIATOR. GEZA HORVATH, Highland Park, Mich. Filed May 6, 1925. Serial No. 28,411. 1 Claim. (Cl. 257—130.)



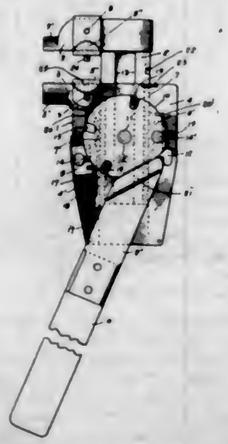
A radiator core comprising vertical rows of air tube holders with the holders of one row staggered relatively to the holders of an adjacent row, each row of tube holders being composed of channel-shaped members arranged face to face and forming walled passages between said holders, the members of said rows having the ends thereof laterally disposed and connected to the ends of members in adjacent rows, said holders having lateral webs engaging in the walled passages between said holders of adjacent rows and the webs of alternate rows being in perpendicular planes so that said webs may cooperate with the walled passages between said holders of adjacent rows in providing cross formations between adjacent holders, and tubes in said holders.

1,688,930. SPRING HINGE. ALFRED E. HYLAND, Kresseville, N. Y. Filed Nov. 21, 1927. Serial No. 234,715. 3 Claims. (Cl. 16—180.)



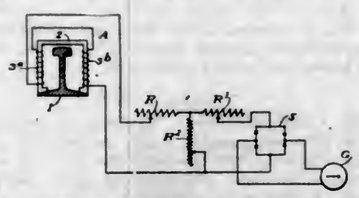
2. A spring-hinge appliance embodying a bushing set in a bore in one of the members and provided with lateral lugs, clearances being provided in said member underneath said lugs and at the inner end of the bushing, bolts extended through said lugs into the member, nuts engaging the threaded ends of said bolts and buried in said member, a coil-spring having one end inserted in said bushing and anchored to the inner end thereof, and means in the swinging-member for engaging the opposite end of said spring, said swinging-member being bored to receive the spring and said means for engaging this end of the spring consisting of a swinging-lever engaging the end of the spring and mounted on the swinging-member, and devices for locking this lever in its adjusted position.

1,688,931. PIPE WRENCH. GEORGE ELWOOD KNIGHT, Sacramento, Calif. Filed July 7, 1926. Serial No. 120,885. 2 Claims. (Cl. 81—126.)



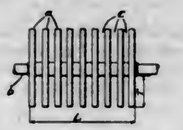
1. A wrench of the character described comprising a body provided with a projecting jaw, an outer jaw formed with a shank, slidably supported in said body, teeth along opposite sides of said shank, a handle pivoted to said body, sliding blocks equipped with teeth to engage the teeth in said shank and also adapted to engage a portion of said handle and selective means for engaging and disengaging said blocks with the shank and said handle.

1,688,932. ELECTRICAL MEASURING APPARATUS. LAURICE L. LOCKROW, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1926. Serial No. 135,399. 1 Claim. (Cl. 175—183.)



In combination, a transformer, a full wave rectifier having its input terminals connected with the secondary of said transformer and having the characteristic of varying in resistance with variations in the temperature at which it operates, a galvanometer connected with the output terminals of said rectifier, an impedance R^2 connected in multiple with said secondary and also with the input terminals of said rectifier, an impedance R interposed between said impedance R^2 and one terminal of said secondary, and an impedance R^1 interposed between said impedance R^2 and one of the input terminals of said rectifier, said impedances being so chosen that the sum of impedances R^2 and R is constant and is substantially equal to the combined impedance of the rectifier and the galvanometer, and that the sum of impedances R^2 and R^1 is constant and is substantially equal to the effective resistance of said transformer secondary.

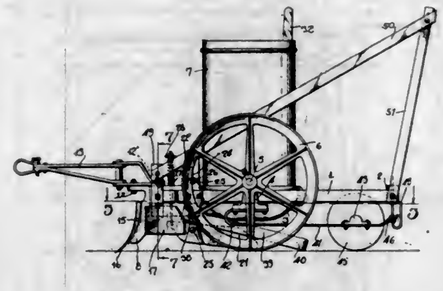
1,688,933. MULTISTAGE DISK-WHEEL TURBINE. FRANZ LÖSEL, Brunn, Czechoslovakia. Filed Aug. 16, 1924, Serial No. 732,413, and in Austria Feb. 7, 1924. 1 Claim. (Cl. 253—39.)



A multi-stage disk-wheel turbine of the low velocity type comprising a multiple disk-wheel rotor, the rotor shaft and the disk-wheels being integrally formed into a single solid unit with the disks disposed at right angles to the shaft and each integral disk-wheel being of substantially uniform thickness from the shaft radially outward to its outermost peripheral edge, whereby unequal temperature expansions and contractions in the rotor unit and dangerous stresses due thereto are avoided notwithstanding the high temperature operation and whereby the turbine length may be kept within practical limits notwithstanding the large number of stages operating at low steam velocity necessary to obtain the required efficiency.

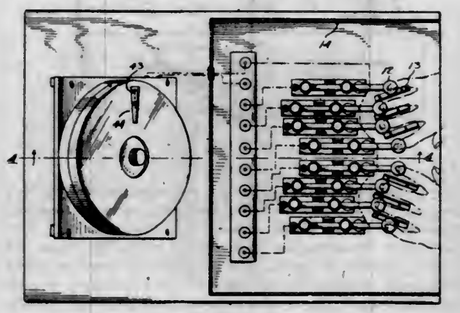
1,688,934. COTTON PLANTER. PATRICK H. LYNCH, Dunn, N. C., assignor to The John A. McKay Manufacturing Company, Inc., Dunn, N. C., a Corporation of North Carolina. Filed Feb. 20, 1926. Serial No. 89,791. 6 Claims. (Cl. 111—59.)

1. In a machine of the character described, the combination of a main frame, divided castings bolted together, brackets extending forwardly from said castings, an opener casting suspended from the forward end of said brackets, a plow point secured thereto, and means for securing the opener casting, brackets, and the main frame together.



4. In a machine of the character described, the combination of a frame, a plow member carried by said frame near the front thereof, an adjustably mounted divider shoe suspended from the frame rearwardly of said plow member, resilient tensioning means connected with said shoe, seed feeding means mounted on the frame and having a point of discharge closely behind the shoe, covering drags independently pivoted to the frame, and disposed behind the point of discharge for covering the seed, and a resiliently mounted covering roller located behind the drags.

1,688,935. APPARATUS FOR TESTING THE APTITUDE OF KEYBOARD OPERATORS. HORACE B. MCCHESNEY, Montclair, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Sept. 27, 1926. Serial No. 137,993. 4 Claims. (Cl. 35—12.)

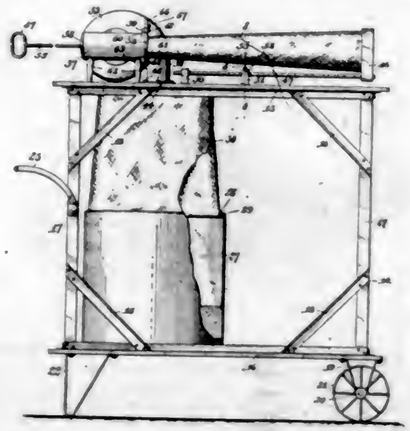


1. In a device of the kind described, a keyboard, display means for successively displaying characters corresponding to the respective keys of said keyboard, means operatively connected to said display means to time the intervals for the exposure of said numbers, whereby whether or not the operator strikes the designated keys at the proper instant will be indicated by the counter, and means operatively associated with the keyboard for registering the number of times the respective keys of the keyboard have been depressed.

1,688,936. MACHINE FOR CLEANING DUST-COLLECTOR TUBES. VERNON B. MCLEAN, Buffalo, N. Y. Filed Nov. 13, 1924. Serial No. 749,662. 8 Claims. (Cl. 15—7.)

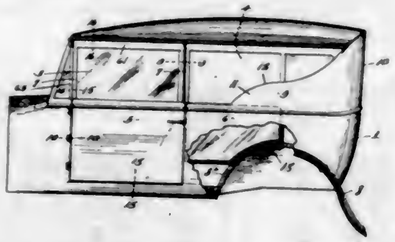
2. A machine for cleaning tubes, comprising a fan, a brush casing connected with the eye of said fan and having

means to connect the open end of a tube thereto, a brush arranged in said brush casing, means mounted in said



brush casing to move said brush into said tube, and reversely, and a dust receptacle connected with the outlet of said fan.

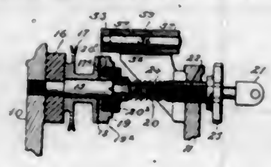
1,688,937. AUTOMOBILE BODY, DOOR, AND WINDOW CONSTRUCTION. LEWIS J. MORGAN, Syracuse, N. Y., assignor of one-fourth to Harry M. Strong, Syracuse, N. Y. Filed June 12, 1923. Serial No. 644,890. 12 Claims. (Cl. 296—44.)



1. In an automobile body, door and window construction the combination of a framing including spacing members comprising metal strips spaced apart and formed with lengthwise channels on their inner opposing edges for forming guides, a sashless window pane movable along the guides, said strips having upward extensions beyond the upper edge of the door and the body and said extensions forming guides for the window panes when in elevated position out of the door or the body, metal edge facing strips for the exposed edges of the framing, an outer metal sheeting on the door or body, each edge facing strip being interlocked at its outer edge with the sheeting, and means securing said edge facing strips to the underlying spacing members.

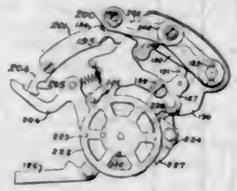
1,688,938. SEWING MACHINE. JOHN ROGER OLIVER, Medfield, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Apr. 6, 1926. Serial No. 100,088. 5 Claims. (Cl. 112—59.)

1. In a hook needle sewing machine, a revoluble thread wheel having non-slipping engagement with the thread, a revoluble friction member contacting the thread wheel with substantial friction, a non-revoluble presser member pressing said friction member against the thread wheel, with an anti-friction rolling-element bearing between the presser member and friction member, means anchoring the friction member against rotation during part of each stitch cycle to impose full resistance on the thread wheel and



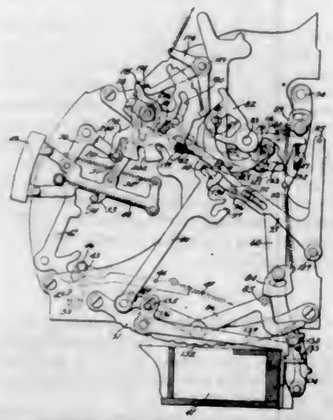
full tension on the thread, and timed means operating to release the friction member thereby to relax the tension during another part of each stitch cycle.

1,688,939. CASH REGISTER. LAWRENCE C. OSTENDORF, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Apr. 23, 1924. Serial No. 708,465. 11 Claims. (Cl. 235—2.)



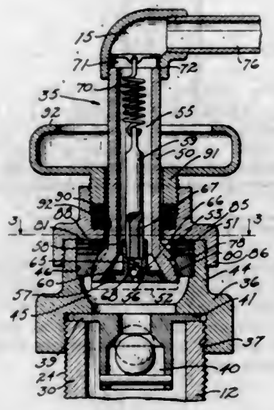
1. In a machine of the class described, the combination of a pivoted printer member having a home position and an operated position, a driving means, an impression platen arm supported by said printer member, a type segment adapted to be differentially positioned, a yieldably supported member adapted to cause said impression platen arm to operate and cause an impression to be made from said type segment, and a second yieldably supported member adapted to cause said impression platen arm to operate to make said impression, before said driving means can return said pivoted printer member to home position.

1,688,940. CASH REGISTER. WILLIAM H. ROBERTSON, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Aug. 16, 1926. Serial No. 129,452. 10 Claims. (Cl. 235—2.)



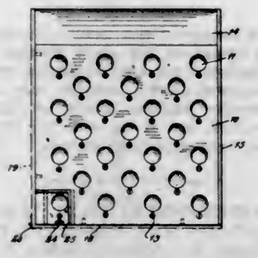
3. In a machine of the class described, the combination of a totalizer, actuators therefor, a member for disengaging and engaging the totalizer with the actuators, a lever having a cam slot adapted to control the position of the member whereby said member is moved into an ineffective position during sub-total operations and into an effective position during grand-total operations, and a pitman for transmitting movement from the lever to the member as determined by said cam slot.

1,688,941. SWIVEL-TYPE LUBRICATING DEVICE. RONALD M. SCHLEGEL, Los Angeles, Calif., assignor to Frank J. Kimball Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 26, 1927. Serial No. 186,605. 13 Claims. (Cl. 308—170.)



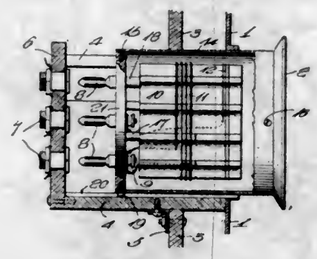
1. A device for injecting lubricant into a rotating hollow shaft, said device comprising: a body adapted to rotate with said shaft and having a chamber communicating with the interior of said shaft, a seat being formed upon said body in said chamber; a nozzle projecting into said chamber and having a face adapted to make a tight contact with said seat or be disposed away from said contact; and means for forcing lubricant through said nozzle into said chamber in a manner to move said nozzle so that said face contacts said seat.

1,688,942. GAME BOARD. HARRY SCHLESINGER, Passaic, N. J. Filed Sept. 24, 1927. Serial No. 221,695. 5 Claims. (Cl. 273—123.)



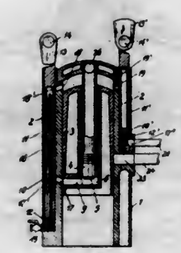
1. A game-board comprising a plurality of depressed parts formed in said board, an exchangeable means for limiting the run of balls propelled onto said board, a means for allowing a ready exchange of one and the other of said depressed parts, and a runway for the balls leaving the board.

1,688,943. RADIO RECEIVING APPARATUS. SAMUEL TAYLOR SCHOFIELD, Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a Corporation of Virginia. Filed Oct. 4, 1927. Serial No. 223,903. 6 Claims. (Cl. 250—16.)



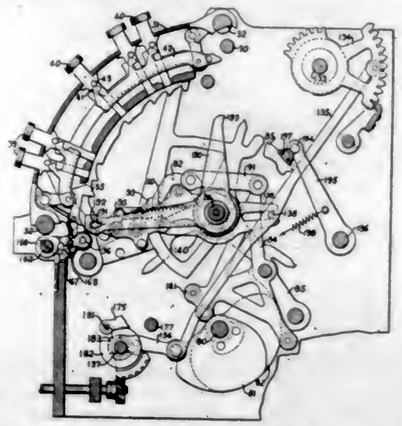
1. In a transformer mounting for radio receiving apparatus a panel structure apertured to receive a transformer through the front thereof, an auxiliary panel structure extending parallel to said aforementioned panel structure and correspondingly apertured to permit the insertion or removal of the transformer therethrough, and a plurality of guide members carried by said auxiliary panel structure and extending substantially at right angles to said aforementioned panel structure adjacent the apertured portion thereof for guiding said transformer into or out of said radio receiving apparatus.

1,688,944. INTERNAL-COMBUSTION ENGINE. WALDEMAR SCHULZ, Neu-Ruppin, Germany. Filed June 17, 1926, Serial No. 116,709, and in Germany June 19, 1920. 5 Claims. (Cl. 123—71.)



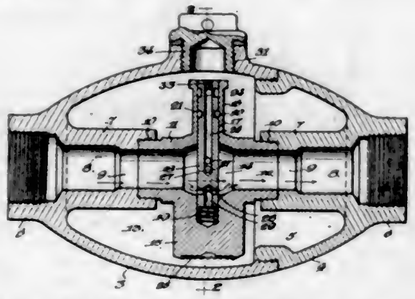
1. An internal combustion engine of the Diesel type in which air for combustion is raised by compression to the temperature of spontaneous fuel ignition, comprising a working cylinder and piston, one part being formed with a chamber forming a counter cylinder and the other with a portion coacting with the walls of said chamber to function as a counter piston, means for admitting air successively to said counter cylinder and working cylinder, said air being simultaneously compressed by reciprocation of said working piston, and means forming a by-pass connecting said counter cylinder and working cylinder, a fuel nozzle terminating in said by-pass, said pistons being so related to the cylinders in which they travel as to provide a superior pressure differential in the counter cylinder, inducing a flow in said by-pass towards said working cylinder, the air in said working cylinder being raised only to the combustion pressure while the air in said by-pass is raised to spontaneous ignition pressure.

1,688,945. CASH REGISTER. BERNIS M. SHIPLEY, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Apr. 22, 1926. Serial No. 103,818. 19 Claims. (Cl. 235—130.)



1. In a machine of the class described, the combination of a total lever having an adding position and a plurality of total-taking positions, and automatic means for locking said total lever against a return movement to adding position after a certain total-taking operation.

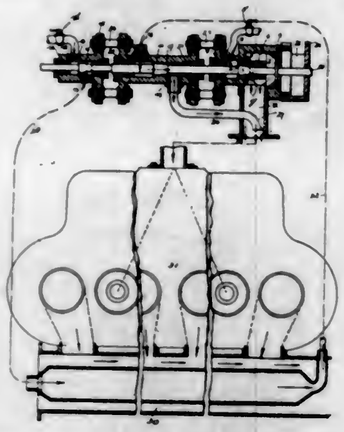
1,688,946. LUBRICATOR. EDWARD F. TERRY, Jr., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed Feb. 17, 1926. Serial No. 88,866. 24 Claims. (Cl. 184—55.)



4. In a lubricator, the combination with a casing having a lubricant reservoir and an open ended passageway for the flow of fluid, of a pendulum member swingingly mounted in the casing and having means for delivering lubricant from the reservoir into the passageway between the ends thereof.

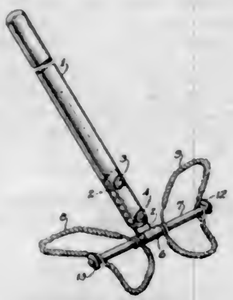
1,688,947. CARBURETOR. FRANCOIS VICTOR ALBERT THOMAS, Paris, France. Filed July 7, 1921, Serial No. 483,035, and in France Aug. 2, 1920. 2 Claims. (Cl. 261—18.)

1. In a carburetor designed for the use of heavy or light hydrocarbon made up of several interconnected body portions, one of such body portions having an air inlet, a mixture outlet, a valve controlling communication between the air inlet and fuel outlet, a light hydrocarbon inlet, a valve controlling communication between the light hydrocarbon inlet and the fuel outlet, a second body portion spaced from the first mentioned body portion and including a heavy hydrocarbon vapor inlet, a heavy hydrocarbon vapor outlet leading to and communicating with the fuel outlet of the first mentioned body portion, a valve arranged between the said inlet and outlet of the second body portion, a third body portion spaced from the second body portion and having a heavy hydrocar-



bon inlet and a heavy hydrocarbon outlet leading to a vaporizer for the vaporization of such hydrocarbon for the inlet of the second body portion, a valve arranged between the inlet and outlet of the third body portion, and a single member for simultaneously and similarly controlling all of said valves.

1,688,948. MOP. HENRY M. VAN DEUSEN, Westfield, Mass. Filed Apr. 4, 1928. Serial No. 267,341. 2 Claims. (Cl. 15—229.)

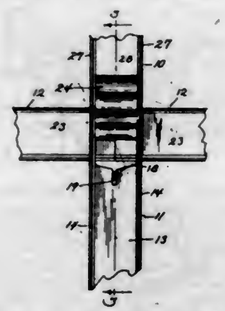


1. In a mop construction a handle, a shank portion, a loop member formed on the shank portion, a cross bar mounted in the lop, a plurality of flexible retaining members loosely mounted on the cross bar, mop material held firmly in operative position by the retaining members, stop means on each end of the cross bar for maintaining the flexible members in position thereon.

1,688,949. INTERLOCKING JOINT FOR METALLIC FRAMES. WESLEY WAIT, Newburgh, N. Y. Filed Mar. 31, 1927. Serial No. 180,014. 8 Claims. (Cl. 189—36.)

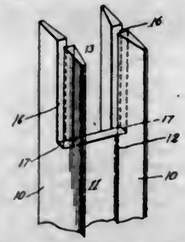
1. In an interlocking joint for metallic frames, the combination of a column formed with a web and flanged sides and comprising upper and lower sections, the lower section having in its web a recess between the upper ends of the flanged sides, with a chair positioned in the recess between the flanged sides of the lower column section and seated upon the web of said section, a girder seated

transversely in the upper end of the lower column section on the chair having a flanged side between the ends of the flanged sides of said lower column section, and a saddle positioned on the girder between the flanged sides of the lower column section, the upper column section



being seated in the saddle, the web of the upper column section being recessed between the lower ends of the flanged sides of said upper section to admit the intermediate part of the saddle between the web of said upper section and the top of the girder.

1,688,950. METHOD FOR SHAPING COLUMNS, GIRDERS, BEAMS, AND THE LIKE FOR INTERLOCKING JOINTS. WESLEY WAIT, Newburgh, N. Y. Filed Mar. 31, 1927. Serial No. 180,015. 2 Claims. (Cl. 29—155.)



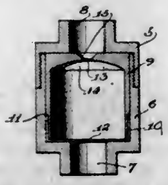
1. The method of shaping webbed columns, girders and beams having flanged sides with filets at the angles between the web and sides to provide joint seats, consisting in first cutting away the web between the side filets at an end of the member being shaped, the removal of the web between the filets forming fins on the inner faces of the flanged sides at the recessed part of the web, and then slotting the flanged sides in the plane of the web to remove the fins and filleted parts to form slots in the flanged sides coinciding with the recess previously formed in the web.

1,688,951. IGNITION DEVICE. WILHELM WALTHER and GOTTHILF RAU, Stuttgart, Germany, assignors to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Aug. 8, 1927, Serial No. 211,496, and in Germany Aug. 27, 1926. 7 Claims. (Cl. 200—19.)



2. In an ignition system an interrupter having a stationary part and a cylindrical casing rotatably adjustable for timing the ignition, operating means for rotating said casing, holding means for securing said operating means to the casing in fixed relation thereto, an annular spring housing arranged to fit over and around said casing and carried by a sleeve arranged to be secured to the casing together with said operating means by said holding means at will, a spring mounted in said housing having one end fixed to the housing, and means for securing the other end of the spring to said stationary part at will.

1,688,952. TONE-CONTROL DEVICE. ALBERT G. WEEKS, Minneapolis, Minn. Filed Jan. 25, 1927. Serial No. 163,495. 9 Claims. (Cl. 181—27.)



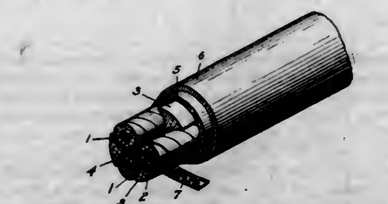
2. A tone control device comprising a hollow sectional body having end walls provided with openings, the sections of said body being longitudinally adjustable with respect to each other, means for securing the body sections in relatively adjusted positions, one end wall of said body being thickened and having its inner face dished, the opening in said thickened end wall being arranged concentrically of the dished face thereof, and a rigid casing receiving and supporting said body and having sound inlet and outlet ways therein communicating with the openings in said body.

1,688,953. WINDOW-GLASS CLIP. FAY A. YEAGER, Muskegon, Mich., assignor to Joachim R. M. Knudsen, Muskegon, Mich. Filed Aug. 1, 1927. Serial No. 209,773. 3 Claims. (Cl. 189—78.)



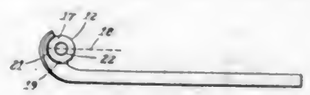
1. In combination, an open window frame formed of members having flanges lying at right angles to each other, a pane of glass or the like located in said frame against certain of said flanges, headed pins mounted on other of said flanges which project outwardly from the flanges against which the glass bears, and a clip mounted on each pin having a curved slot therein whereby movement of the clip on the pin forces the clip against the glass and secures it in the frame.

1,688,954. ELECTRIC CABLE. RALPH W. ATKINSON, Perth Amboy, N. J., assignor, by mesne assignments, to General Cable Corporation, a Corporation of New Jersey. Filed Sept. 28, 1925. Serial No. 58,986. 2 Claims. (Cl. 173—266.)



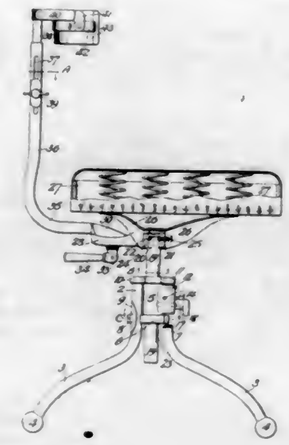
1. In an electric cable, a body of insulation wrapped in a strip of copper of the conductivity, pliancy, texture, and tenacity which characterize electrolytically deposited copper, the whole being surrounded by a metal sheath.

1,688,955. METHOD OF MANUFACTURING COVERED-JOINT HINGE MEMBERS. JAMES T. ATWOOD, Rockford, Ill. Filed Mar. 25, 1927. Serial No. 178,333. 3 Claims. (Cl. 29—11.)



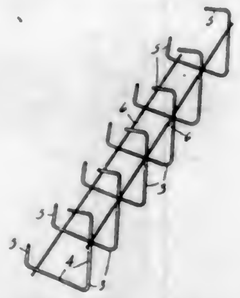
1. The method of manufacturing the outside member of a covered joint hinge, consisting in upsetting and bending one end of a flat metal blank to form a laterally offset head having a cross-sectional shape providing a pintle bearing knuckle portion and a cover portion, and removing stock from the pintle bearing side of the headed end for reception of the knuckle of the inside hinge member.

1,688,956. CHAIR PARTICULARLY FOR OFFICE USE. CARL JACK BENDIX, East Melbourne, Australia. Filed Mar. 23, 1926. Serial No. 96,853. 4 Claims. (Cl. 155—138.)



1. In a chair of the type described, a junction member comprising a tubular body portion, a collar carried by the upper end of the body portion and formed in its under surface with circular depressions to receive the upper ends of supporting legs, a collar provided at the lower end of the tubular body and formed in alignment with the respective depressions of the upper collar with edge depressions opening radially of the collar, a series of legs having straight portions to fit in vertically aligned depressions of the upper and lower collars, a housing integral with the body portion, and mechanism arranged wholly within the housing for slidably adjusting a seat post.

1,688,957. STRUCTURAL REENFORCE ELEMENT. DEWEY H. BITNEY, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Oct. 22, 1926. Serial No. 143,479. 9 Claims. (Cl. 72—76.)



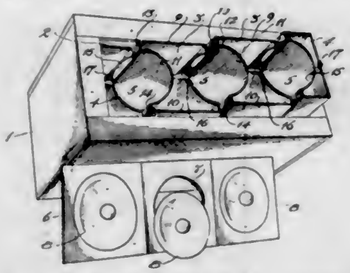
2. A reenforce bar spacer unit consisting of a plurality of cross members open at one side and conformed to provide three inwardly facing angles, and longitudinal rods to which said cross members are connected in spaced non-collapsible relation.

1,688,958. STRUCTURAL UNIT. DEWEY H. BITNEY, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Feb. 11, 1927. Serial No. 167,419. 4 Claims. (Cl. 72—122.)



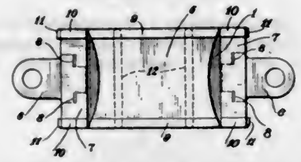
2. A structural unit comprising a longitudinal supporting rod and a plurality of vertical legs welded to the said rod in spaced relation with their upper ends projecting above the rod, said legs having projections at their lower ends disposed horizontally and transversely of said longitudinal supporting rod providing feet, the feet of adjacent legs being oppositely disposed.

1,688,959. ICE-CREAM CABINET. CLARENCE H. BROOKS, Norfolk, Va., assignor, by mesne assignments, to Brooks Cabinet Company, Inc., Norfolk, Va., a Corporation of Virginia, and Manning Manufacturing Company (Incorporated), Rutland, Vt., a Corporation of Vermont. Filed Sept. 13, 1927. Serial No. 219,308. 6 Claims. (Cl. 62—75.)



1. A cabinet having a rectangular chamber formed therein, a plurality of similar containers having recessed walls arranged slidably in said cabinet with the recessed walls of adjacent containers in contact with each other, and their opposed recesses forming a chamber.

1,688,960. ELECTRICAL CONDENSER. WILLIAM DUBILIER, New Rochelle, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,300. 13 Claims. (Cl. 175—41.)



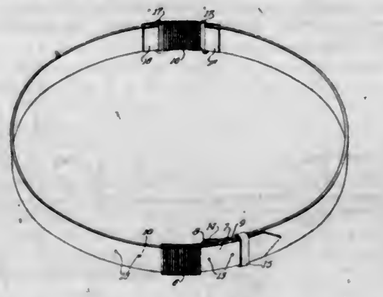
1. A condenser having a body comprising electrically conductive elements insulated from one another, said elements projecting from said body, means for mounting a terminal in contact with part of said projecting elements, and similar means for mounting a second terminal in contact with the remainder of said elements, and a clamping casing enveloping said body and extending substantially from end to end thereof, and engaging said terminal mounting means.

1,688,961. ELECTRICAL CONDENSER. WILLIAM DUBILIER, New Rochelle, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,301. 5 Claims. (Cl. 175—41.)



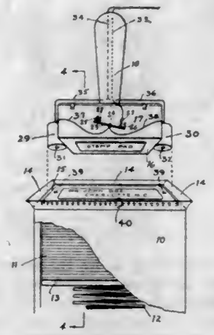
4. A condenser comprising electrically conductive elements insulated from each other, part of said elements projecting from one end of the condenser and part from the other, a terminal to engage the elements projecting at each end of the condenser, insulating clamping members to grip said terminals, and a casing enclosing said elements, the casing having projections at each end in line with the sides, to extend across the clamping members, and with portions at each end of said sides to be bent against said members to secure same against displacement.

1,688,962. SPRING-CONNECTING MEANS FOR BELTS OR STRAPS. JOSEPH P. GORDON, Rockford, Ill. Filed Feb. 26, 1923. Serial No. 621,275. 1 Claim. (Cl. 267—73.)



A spring connection for a belt or strap comprising a single piece of spring wire wound to provide a flat coil the convolutions of which are normally in approximately abutting relation, each end portion of the wire being looped to provide an eye for the reception of an end of the belt, each loop being of the same shape as and parallel with the convolutions of the spring and disposed in the plane of the flat inner side thereof so as to position the major portion of the spring body at the outer side of the inner line of the belt, and the end of each loop being bent to terminate within the adjacent coils.

1,688,963. ADDRESSING MACHINE. ERNEST D. GRADY, Charlotte, N. C. Filed Oct. 12, 1926. Serial No. 141,112. 9 Claims. (Cl. 101—47.)

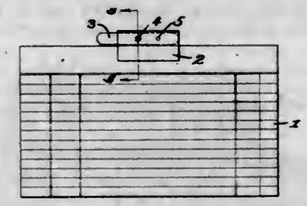


1. An inking device having magnetic means for picking up and holding a stencil during a printing operation and additional means for causing the stencil to be released after the printing operation.

1,688,964. COMPLEX ANTIMONY COMPOUND. HANS HAHL, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Original application filed Mar. 29, 1926, Serial No. 98,272, and in Germany June 8, 1925. Divided and this application filed Oct. 8, 1926. Serial No. 140,420. 3 Claims. (Cl. 260—11.)

1. The process for the manufacture of complex antimony compounds, which process consists in causing an antimonyl compound of a polyphenol containing two hydroxyl groups in ortho-position to each other to interact with a neutral salt of an aliphatic hydroxy acid.

1,688,965. CARD INDEX AND SIGNAL THEREFOR. ALBERT H. HEILAND, Seattle, Wash. Filed Mar. 25, 1927. Serial No. 178,443. 6 Claims. (Cl. 116—135.)

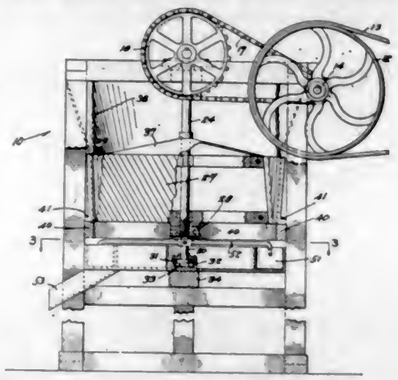


1. An index card or the like and a tab, means whereby said tab may be supported wholly beyond one edge of the card, said tab being movable longitudinally of and relative to said edge for indicating purposes, the tab being of materially less length than the length of the edge on which it is mounted.

1,688,966. NUT-CRACKING MACHINE. HIRAM H. HILL, Chico, Calif. Filed June 21, 1926. Serial No. 117,450. 1 Claim. (Cl. 146—11.)

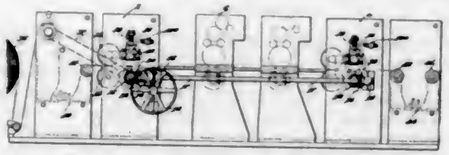
In a device of the type described, a cylindrical nut cracking member having grooves on the exterior surface thereof, each groove extending from the top to the bottom of said member, a second cylindrical member en-

closing said first named member and having grooves on the interior surface thereof, the grooves of at least one



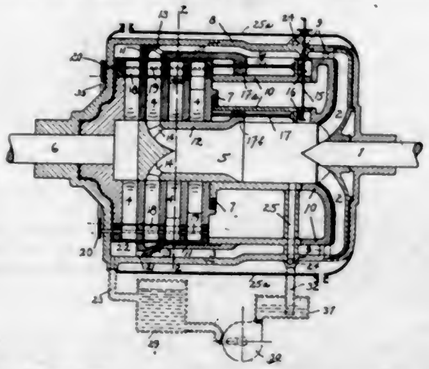
of said members slanting so as to cause each groove to extend less than one-fourth of the way around the circumference of the member.

1,688,967. PRINTING MACHINE. GEORGE E. HOLMES, Dover, N. H. Filed Mar. 30, 1926. Serial No. 98,469. 18 Claims. (Cl. 101—228.)



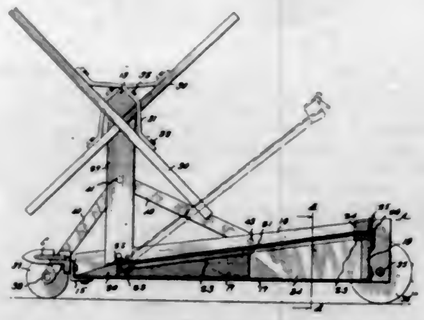
1. In a web printing press, a printing unit, intermittently operating rotary feed couples both in front and rear of said unit, both members of the couple at the rear having a very slightly greater surface speed than the couple at the front, and means for revolving said couples in synchronism.

1,688,968. HYDRAULIC POWER-TRANSMISSION GEAR. ANTON HUWILER, Basel, Switzerland. Filed Oct. 27, 1927, Serial No. 229,094, and in Switzerland Oct. 25, 1926. 3 Claims. (Cl. 60—54.)



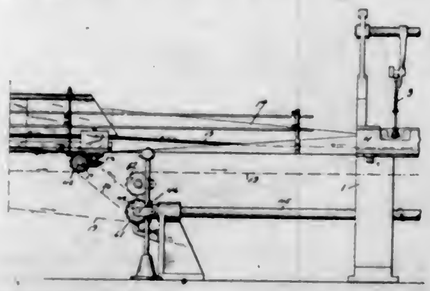
1. A hydraulic power-transmission gear, comprising in combination, a centrifugal pump, a plurality of turbine rotors having dissimilar specific speeds, a common shaft for said rotors, conduits connecting said pump and rotors, axially movable slide members adapted to throw each of the rotors in and out of the circuit of the liquid and conduits through which the rotors not in operation communicate with the suction chamber of the pump into which the said rotors may be drained.

1,688,969. SEED-SAVING ATTACHMENT FOR MOWING MACHINES. JAMES C. JONES, Brighton, Tenn. Filed Dec. 23, 1924. Serial No. 757,760. 1 Claim. (Cl. 56—207.)



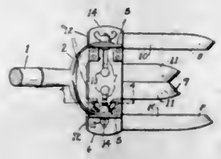
A seed saving attachment for mowing machines including a laterally extending cutting bar, comprising a receiver pan structure consisting of a bottom, side wall members extending upwardly therefrom, a supplemental wall of less height than and arranged against the inner face of a side wall, a rear wall of less height than said side walls and resting upon said bottom, a front wall of substantially triangular cross section resting upon and extending transversely of the said bottom adjacent the forward edge thereof, said front wall presenting a rearwardly and upwardly inclined top surface, a screen frame for said pan comprising front, rear and side bars, a screen body overlying said frame, a hinge member securing said front bar to the front wall of said pan and maintaining said bar and the screen substantially flush with the top of said front wall, said frame having one side bar resting on the supplemental wall and the rear bar resting upon the rear wall, and a flailing structure mounted to revolve over the forward portion of said pan to throw cuttings from said cutting bar onto said screen.

1,688,970. ART OF AND MACHINE FOR ASSEMBLING BOOKS. CHARLES A. JUENGST, Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn., a Corporation of Delaware. Filed Sept. 7, 1923. Serial No. 661,344. 42 Claims. (Cl. 270—54.)



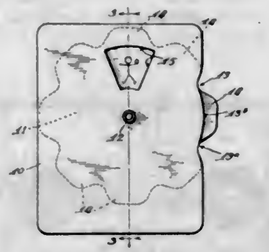
1. The method of tipping one signature to another which consists in advancing the two signatures side by side but out of alinement with each other so as to expose a portion of that side of one signature that is adjacent to the other signature, applying adhesive to one of said signatures at the exposed portion thereof, and then bringing the signatures into substantial alinement and pressing them together.

1,688,971. SOIL-WORKING IMPLEMENT. WILLIAM H. KAMMERER, Kalamazoo, Mich. Filed Nov. 13, 1925. Serial No. 68,846. 3 Claims. (Cl. 97—58.)



1. In a soil working implement, the combination of a head bar having longitudinal slots therein, pairs of curved teeth provided with integral shanks having lugs at their ends engaging the front edge of said head bar, said teeth having lateral twists in their curved portions, the shanks of the pairs of teeth being of different length, and bolts through said shanks engaging said slots in said head bar for adjustably and interchangeably securing said teeth thereto.

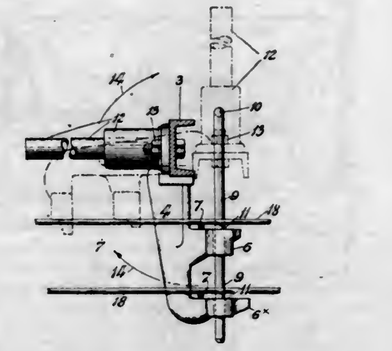
1,688,972. TOY MOTION-PICTURE DEVICE. LELAND A. KING, Chicago, Ill. Filed May 29, 1926. Serial No. 112,476. 4 Claims. (Cl. 88—16.)



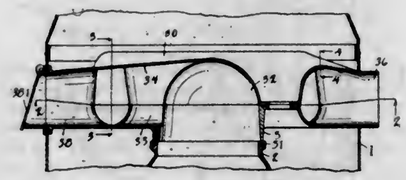
1. A device for providing motion picture effects of the character described comprising a rotatable member in the form of a flat disc having finger-engaging projections on the periphery thereof, a supporting and disc-covering member in the form of a flat sheet having a sight-opening therein, said rotatable member being pivotally mounted on the supporting member and having thereon a series of successively varying pictures for motion picture effects, said pictures being arranged to register successively with said sight-opening when the disc is moved a predetermined amount, said peripheral projections extending beyond an edge of the supporting member and said edge constituting a finger guide whereby a finger applied to such projections respectively may move the rotatable member substantially such predetermined amount only.

1,688,973. INSTALLING DEVICE FOR PLACING REENFORCING IN CONCRETE. SAMUEL M. KIRSHNER, Philadelphia, Pa. Filed May 25, 1927. Serial No. 193,995. 6 Claims. (Cl. 94—39.)

1. In a device of the character stated, a yoke, pendant hooks supported therefrom, arms extending laterally from said hooks, certain of said arms having aligning holes therein, upright pins positioned in said holes, and a laterally extending handle projecting from said yoke, whereby said yoke and hooks may be revolved as a unit.



1,688,974. WARM-AIR FURNACE. JOHN P. KOLLA, Holland, Mich., assignor to Holland Furnace Company, Holland, Mich. Filed Oct. 24, 1927. Serial No. 228,247. 3 Claims. (Cl. 126—102.)



1. In a furnace structure, a radiator comprising a bottom casting with central intake and a top casting, the bottom casting being flanged to connect to the top of the combustion chamber of a furnace, the top casting being formed with a central dome and connected semi-circular passages leading around the same to the smoke flue, said upper casting having an integral dividing rib depression at the center of the discharge passage from the dome to the semi-circular passages and the discharge passage to the smoke pipe.

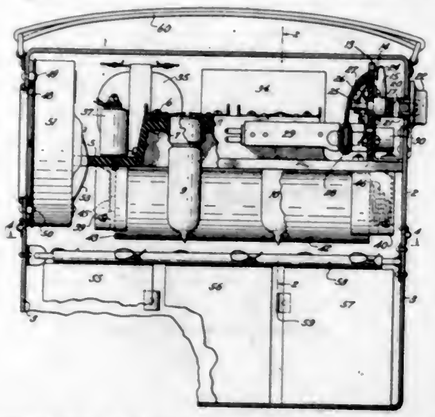
1,688,975. FLOTATION OIL. ROYER LUCKENBACH, Brooklyn, N. Y. Filed Mar. 23, 1925. Serial No. 17,835. 4 Claims. (Cl. 252—9.)

1. An oil for the flotation of minerals which comprises, a heavy petroleum residuum, a petroleum diluent therefor, and a frother containing cotton-seed foots, pine creosote, and a soap.

1,688,976. AUDIPHONE. GEORGE R. LUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 21, 1924. Serial No. 721,509. 3 Claims. (Cl. 179—107.)

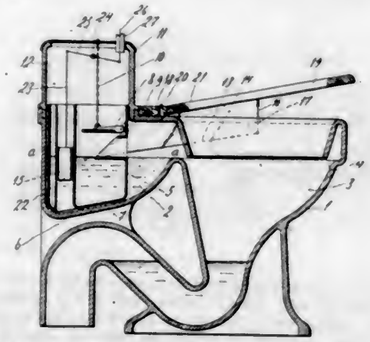
1. In an audiphone, in combination, a panel, vacuum tubes mounted on said panel, dry cells mounted on the sides of said panel adjacent said tubes, a second panel mounted on the opposite side of said panel, a pair of jacks

mounted on said second panel, one of said jacks being connected to the output of said tubes, and the other so



connected into the filament circuit of said tubes that an outside source of current may be substituted for said cells.

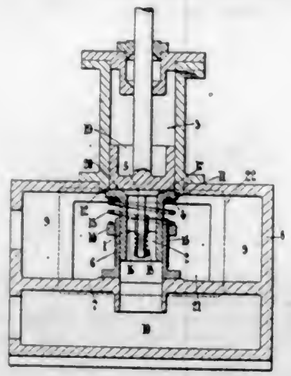
1,688,977. WATER-CLOSET. OLOF LUNDBERG, Saltsjobaden, Sweden, and JOHAN MAGNUS BERNSTRÖM, Arabia, Helsingfors, Finland. Filed Dec. 5, 1927. Serial No. 237,684, and in Sweden May 17, 1927. 5 Claims. (Cl. 4—18.)



1. A water closet of the character described, comprising a flush bowl and a reservoir chamber separater from each other by an overflow wall, a tank suspended within the reservoir and arranged to be lowered into the water chamber to displace the water therein over the said overflow wall, and into the flush bowl, means to elevate the tank above the normal water level in the reservoir maintained by the overflow wall, a valve disposed in the tank and automatically opened and closed by the lowering and raising, respectively, of the tank within the reservoir to discharge the contents of the tank into the reservoir and thence to the bowl, and a float controlled means operating automatically with a drop in the water level in the reservoir to supply water to the tank and reservoir when the said tank is in raised position.

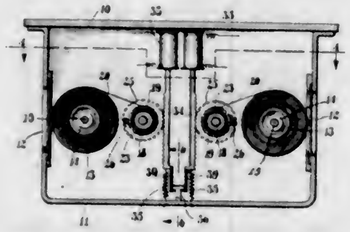
1,688,978. RECIPROCATING PUMP. JOHN MCCALLUM, Glasgow, and HARRY PERCIVAL HARVEY ANDERSON, Calderbank, Scotland. Filed Oct. 25, 1926, Serial No. 144,124, and in Great Britain Oct. 31, 1925. 6 Claims. (Cl. 103—153.)

1. A pump having, in combination, a barrel, a plunger adapted to be reciprocated therein, a casing at one end of the barrel, a partition dividing the casing into a suction chamber and a delivery chamber, a gland supported by said partition concentric with the barrel and open to the suction chamber, a hollow delivery valve slidable in the gland, a seating on the adjacent annular edge of the barrel for said valve, spring means concentrically disposed around the exterior walls of said valve for constraining said valve to its seat for displacement by the plunger, a



suction valve slidable wthin the delivery valve, a seating on the delivery valve for the suction valve such that when said valve is closed the inner surface is flush with the inner surface of the delivery valve, and spring means disposed within said delivery valve for seating the suction valve.

1,688,979. AUTOMATIC STATION INDICATOR FOR TRAINS. IRVING MENDELSOHN, New York, N. Y. Filed June 16, 1927. Serial No. 199,175. 2 Claims. (Cl. 40—55.)



1. In an automatic station indicator for trains, the combination with a solenoid actuated rack connected with web advancing rolls, of a casing housing the said indicator, a tongue projecting therefrom, and having a roughened portion, an elliptically shaped member bolted to the tongue, and having a similar roughened portion engaged against the first roughened portion, the edges of the elliptically shaped member being provided with knurlings, and a projection from the said rack engageable against the knurled edge of the elliptical member to limit the travel of the rack, and the movement of the web roll, as determined by the position of the elliptically shaped member.

1,688,980. MULTIPLATE VERTICAL WALL. SAMUEL W. MILLER, Hollis, N. Y., assignor to Linde Air Products Company, a Corporation of Ohio. Filed June 6, 1925. Serial No. 35,483. 6 Claims. (Cl. 113—112.)

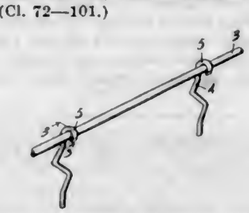
1. A method of constructing a vertical multi-plate metal wall that comprises severally welding lower edges of such plates to connectors, assembling such plate-connector units

in said wall in inverted position so that the connector of each unit extends along the upper edge of each unit, and



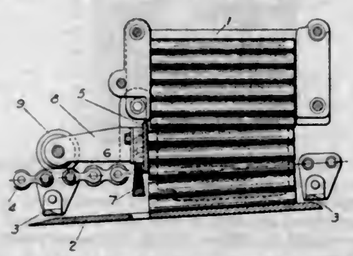
then welding the lower edge of the plate of each unit to the connector of an adjacent lower unit in the wall.

1,688,981. ANCHORING ELEMENT FOR CONCRETE CONSTRUCTION. ROBERT B. MITCHELL, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Jan. 26, 1927. Serial No. 163,649. 2 Claims. (Cl. 72—101.)



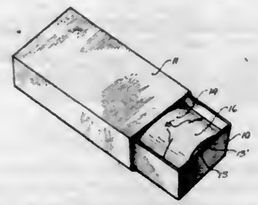
1. An anchoring element for use in concrete construction consisting of a rod and a plurality of spaced anchoring members formed of wire and having eyes at their upper ends embracing said rod and welded thereto so that they are fixedly secured in spaced relation on the rod.

1,688,982. APPARATUS FOR FEEDING CIGARETTES AND ARTICLES OF A SIMILAR SHAPE. WALTER EVERETT MOLINS, Deptford, London, England. Filed Mar. 13, 1926, Serial No. 94,483, and in Great Britain Apr. 22, 1925. 3 Claims. (Cl. 198—30.)



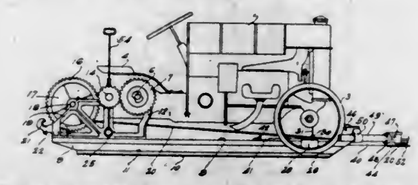
1. A hopper apparatus which comprises in combination a series of vanes adapted to be arranged beneath the delivery end of a cigarette hopper, and adapted to arrange the cigarettes in superimposed rows, a gate located at the delivery end of said vanes arranged to permit one or more rows of cigarettes to be removed therefrom by a conveyor, and yieldingly controlled means pendent from the lower edge of said gate adapted to yield in the direction of the axial movement of said cigarettes.

1,688,983. CARTON. ALEXIS W. O'KEEFE, Chicago, Ill. Filed Mar. 1, 1926. Serial No. 91,381. 3 Claims. (Cl. 206—65.)



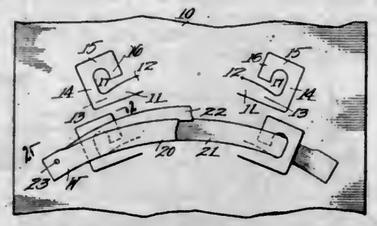
1. A carton comprising a box-like structure, a support in said structure having two opposite edges thereof positioned in two opposite edges of the box, a raised center portion forming an apex lying along the longitudinal center of the box and having sloping sides, each of said sides being adapted to support articles thereon with their upper ends spaced apart, and a flexible arched filler adapted to be positioned in said box and engaging the sides thereof and a cover for said box.

1,688,984. TRACTOR-DRIVEN SKIDDER. JAMES V. L. PEACOCK, Columbus, Ga. Filed Aug. 11, 1924. Serial No. 731,399. 9 Claims. (Cl. 254—166.)



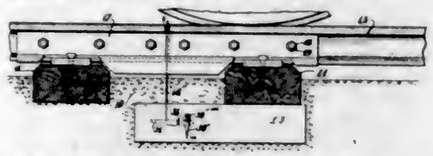
5. An attachment for converting a tractor into a skidder and the like, comprising a skid having rear supports for the rear end of the tractor and means to clamp the tractor to said supports, a drum shaft mounted on the skid, a transmission at each side to drive said drum shaft from the rear axles of the tractor, a forward extension guide carried by the skid for a pulling cable wound on said drum, said guide having a hold-down pulley under which the cable runs.

1,688,985. DISPLAY CARD. EARL R. PERSON, Leominster, Mass., assignor to Du Pont Viscoloid Company, Inc., Leominster, Mass., a Corporation of New Jersey. Filed July 21, 1926. Serial No. 124,049. 3 Claims. (Cl. 206—79.)



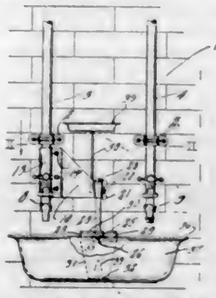
3. A display card comprising a back portion of sheet material having attaching members formed in cooperating pairs therein, the two members of each pair being widely spaced apart and each attaching member being shaped in a major segment of a circuit open at one point only, which point is closely adjacent the point of connection of said member to the back portion of the display card, and each attaching member engaging the front, back and upper and lower edges of a supported article and thus preventing upward, downward or forward displacement thereof.

1,688,986. AUTOMATIC EXPLOSIVE MECHANISM. BORIS RANZAN, New York, N. Y. Filed Sept. 19, 1927. Serial No. 220,518. 5 Claims. (Cl. 246—210.)



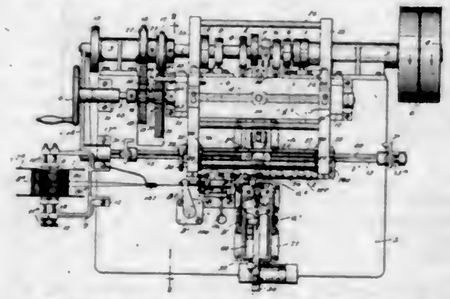
1. In a device of the class described a bomb comprising a casing adapted to be disposed below the rail bed of a railway, a firing pin slidably mounted in said casing, a trigger mechanism adapted to retain said firing pin in a retracted position, a spring mounted in said casing for urging said firing pin, and actuating mechanism for said trigger mechanism comprising an alarm clock adapted to actuate the same at a predetermined time for releasing said trigger mechanism to discharge said bomb.

1,688,987. BASIN MOUNTING. OSCAR M. RIES, Toledo, Ohio. Filed Dec. 13, 1926. Serial No. 154,442. 4 Claims. (Cl. 45—38.)



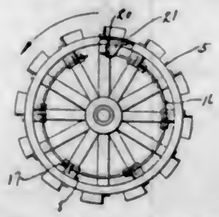
1. A support for a basin provided with an annular rim and an eye through said rim, and a projection for entering the basin eye, said support having an extension below the projection, said extension contoured to nest with the basin outer side and extending under the basin, and said support having additional basin rim engaging means upon opposite sides of the projection for holding the basin supported against rocking when having its eye engaged by the projection.

1,688,988. MACHINE FOR MAKING ARTICLES COMPOSED OF WIRE RINGS OR LINKS. FRIEDRICH AUGUST KARL ROLLE, Vauxhall, N. J., assignor, by mesne assignments, to Binder Bros., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 19, 1922. Serial No. 582,844. 37 Claims. (Cl. 140—3.)



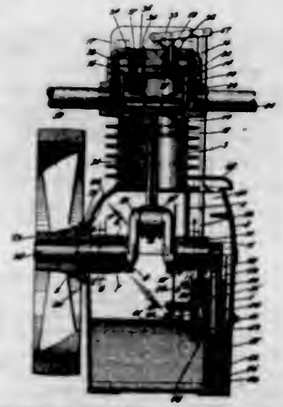
1. Wire-feeding mechanism comprising a traveling member adapted to engage a plurality of wires, a plurality of clamping members movable in unison with said traveling member and also movable relatively thereto transversely of its traveling motion to clamp or release the respective wires, pressure means adapted to engage said clamping members and to press them against the respective wires, and means for effecting relative motion between said pressure means and said traveling member in a direction transverse to the traveling motion of said member and also transverse to the clamping movement of the clamping members to establish a co-operative relation between said pressure means and the different clamping members.

1,688,989. EXTENSION-RIM ATTACHMENT. NATHAN HOWARD SAUNDERS, Cambridge, Wis. Filed May 31, 1927. Serial No. 195,426. 7 Claims. (Cl. 301—39.)



5. The combination of a tractor wheel provided with an inturned flange and spokes and an extension rim having a plurality of hooked brackets for receiving said spokes, said brackets each having a shoulder contacting wtih said flange and having guiding means, a circular rod guided by said guiding means and having a plurality of locking members carried by said rod for locking said spokes within said brackets, a bracket rigidly carried by said extension rim and through which said rod passes, and a nut bearing against said last mentioned bracket and threaded upon said rod.

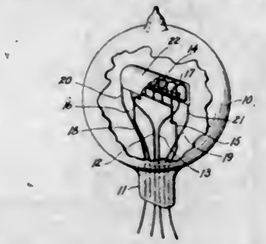
1,688,990. COMPRESSOR. JOHN H. SCHREIBER, St. Louis, Mo. Filed Apr. 10, 1926. Serial No. 101,053. 25 Claims. (Cl. 230—4.)



1. A compressor comprising a cylinder having an inlet passage and an outlet passage, a piston operative within the cylinder, a shaft arranged to operate said piston, a lubricant pump operated by said shaft, and a part on said shaft arranged to deliver to said piston oil passing from said pump.

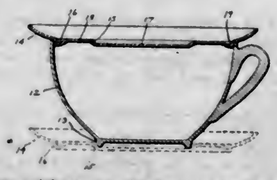
1,688,991. ELECTRON-DISCHARGE DEVICE. PAUL SCHWERIN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1923. Serial No. 671,348. 2 Claims. (Cl. 250—27.5.)

1. In an electron discharge device, a press, pairs of lead-in wires sealed in said press, a straight filamentary cathode supported between one pair of lead-in wires and lying at right angles to the axis of the press, a trough shaped grid electrode located parallel to and effectively surrounding said filament with its open side facing said press, said



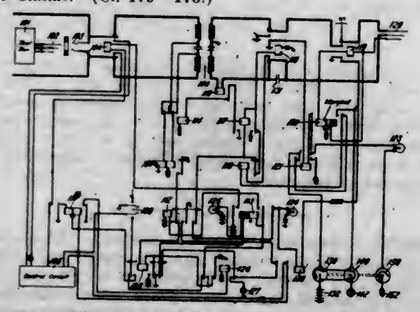
grid being supported at its opposite ends by a pair of said lead-in wires, and a trough shaped anode located parallel to and above said grid and filament and being supported at its opposite ends by a pair of said lead-in wires.

1,688,992. CUP SUPPORTING AND COVERING SAUCER. BENJAMIN F. SMITH, Concord, Mass., assignor of one-half to Charles A. Holt, Cambridge, Mass. Filed June 21, 1927. Serial No. 200,381. 2 Claims. (Cl. 65—15.)



1. For use with a cup having a mouth of relatively large diameter and a bottom of smaller diameter bounded by an outwardly facing annular shoulder; a saucer adapted to either support or cover the cup, the saucer being of greater diameter than the mouth of the cup and provided on its upper side with an inwardly facing annular inner shoulder of relatively small diameter formed to cooperate with the bottom shoulder of the cup in centrally confining the cup on the saucer and on its lower side with an outwardly facing annular continuous outer shoulder of larger diameter than the inner shoulder and spaced outwardly therefrom, and formed to enter the mouth of the cup and cooperate therewith in centrally confining the saucer on the cup when the saucer is used as a cover.

1,688,993. TELEPHONE SYSTEM. EDMUND B. SMITH, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1926. Serial No. 142,577. 9 Claims. (Cl. 179—175.)



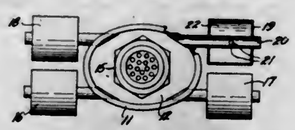
1. In a telephone exchange system, machine ringing trunks having selectable apparatus to control the ringing of different party line bells, a device for testing said trunks, comprising means for selecting said apparatus and means responsive to ringing current to test the ability of said apparatus to control the ringing of party line bells, and means for rendering said selecting means and said responsive means effective during a single automatic progressive test to successively test the ability of said apparatus to cause the ringing of each of a plurality of party line bells.

1,688,994. METHOD AND APPARATUS FOR DRILLING HOLES. EGGLESTON SMITH, Sioux City, Iowa, assignor to Eggleston Drilling Corporation, Dover, Del., a Corporation of Delaware. Filed Dec. 17, 1923. Serial No. 681,032. 8 Claims. (Cl. 255—1.)



1. A rotary drilling apparatus comprising, a drilling tool, means for applying a predetermined normal feeding pressure to said tool, a rotatably driven drill shaft, and means for connecting said drilling tool to said shaft including means for continuously imparting in opposition to the predetermined normal feeding pressure a force which becomes larger or smaller respectively as the resistance to rotation encountered by the drilling tool increases or decreases.

1,688,995. TELEPHONE MUFFLER. WALTER F. SMITH, Jr., New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1925. Serial No. 70,461. 7 Claims. (Cl. 179—188.)

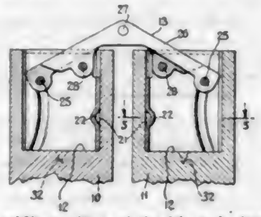


1. A voice muffler for a telephone transmitter comprising a chamber adapted to form a mouthpiece and a breath exhaust passage leading from said chamber to the open air, said passage comprising a tubular element having an expansion chamber coupled thereto, and being proportioned to substantially suppress the transmission therethrough of sound waves corresponding to the higher frequencies of speech.

1,688,996. CONCEALED HINGE. JOSEPH SOSS, Brooklyn, N. Y. Filed Mar. 1, 1926. Serial No. 91,400. 5 Claims. (Cl. 16—164.)

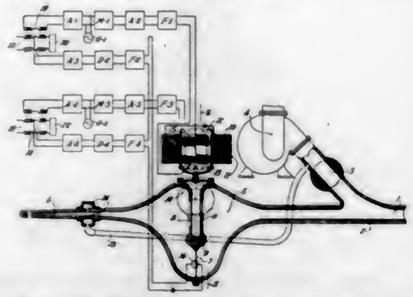
1. A sheet metal hinge butt comprising a U-shaped body and laterally extending flanges at one side of the arms of

said body, the opposite walls formed by the arms of said body having apertures for receiving the link pivot pin of the hinge, said walls being provided on adjacent faces with



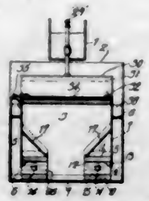
grooves for guiding a link of the hinge in its movement in said butt, and means for reinforcing the crosshead of said body.

1,688,997. SIGNALING SYSTEM. CLARENCE A. SPRAGUE, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 20, 1923. Serial No. 652,692. 19 Claims. (Cl. 179—15).



1. An electro-compressional signaling system comprising a conduit or pipe filled with a fluid and extending between two distant points, means at each of said points for simultaneously impressing upon the fluid in said pipe high frequency compressional waves modulated in accordance with signals, means at each of said points for receiving and detecting said modulated waves transmitted from the other point, and means at each of said points for at least partially nullifying the effect of locally generated waves upon the receiving and detecting apparatus at that point.

1,688,998. FROTH-FLOTATION CONCENTRATION OF ORES. FREDERICK SWINNEY, deceased, Tucson, Ariz., by Rose Lima Swinney, administratrix, Tucson, Ariz. Filed May 24, 1927. Serial No. 193,906. 19 Claims. (Cl. 209—170.)



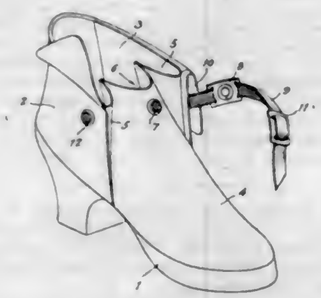
1. A froth-flotation cell having passages for feeding pulp in opposing streams from the sides of the cell so that the streams are directed against each other to effect agitation of the pulp and the pulp is substantially dependent upon the impinging streams for its agitation and a tailings outlet at one end of the cell so that the general course of pulp through the cell is longitudinally across the direction of the entering streams, and means at the side passage for aerating the pulp as it enters the cell through the side passages.

1,688,999. METHOD OF MAKING ANNEALING POTS. JAMES HALL TAYLOR, Chicago, Ill. Filed Jan. 12, 1925. Serial No. 1,810. 1 Claim. (Cl. 263—48.)



The method of making an annealing pot which consists in forming a tubular member with an upper enlarged section, and compressing said enlarged section in the direction of the axis of said pot to materially thicken such enlarged section.

1,689,000. FOOTWEAR. HENRY C. WAGNER, Beacon Falls, Conn., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn., a Corporation of Massachusetts. Filed Feb. 18, 1928. Serial No. 255,242. 7 Claims. (Cl. 36—50.)

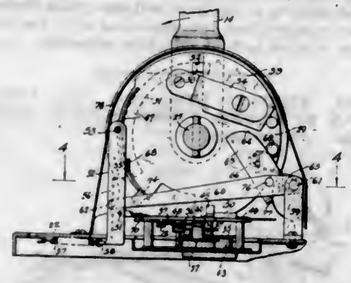


1. A fastening device for gaiters having side flaps and a vamp, comprising, a strap having one end secured to one of the side flaps, two snap buckles adjustably secured to said strap, studs fixed respectively to the center of the vamp adjacent the top thereof and to the other of the side flaps, said snap buckles being adapted respectively to be secured to said studs.

1,689,001. DOORCHECK. GEORGE H. WALDBAUER, Bridgeport, Conn. Filed Mar. 31, 1927. Serial No. 179,803. 8 Claims. (Cl. 16—69.)

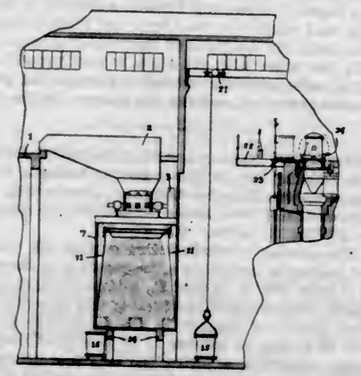
1. In a door check, a lever, means for pivotally connecting said lever to a door and a stationary element so that movements of the door will swing said lever about its pivot, a spring tending to swing the lever to move the door to closed position, a stop means to arrest movement

of the lever a short distance before the door is closed and retain it in that position, and a timing mechanism to



release the lever after a given time and permit the spring to complete the closing movement.

1,689,002. APPARATUS FOR PREPARING REFUSE FOR INCINERATION. GEORGE M. WELLS, Montclair, N. J. Filed Oct. 6, 1922. Serial No. 592,678. 3 Claims. (Cl. 214—17.)



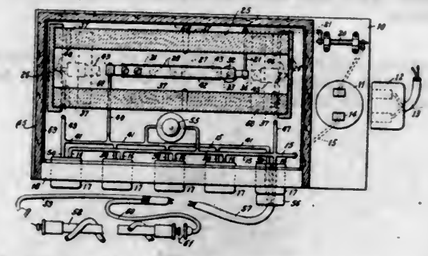
1. In an incinerating apparatus, an open top bin supported elevated with relation to a floor plane and having side and end walls forming an upwardly extending refuse chamber with openings through the lower corners of the bin, tracks mounted inset on the side walls adjacent to the open top of the bin, and a removable carriage travelling the tracks and having a dependent scraper cross-wise of the chamber and substantially the width thereof.

1,689,003. ANTICREEP RAIL ANCHOR. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill. Filed Oct. 29, 1927. Serial No. 229,580. 7 Claims. (Cl. 238—330.)



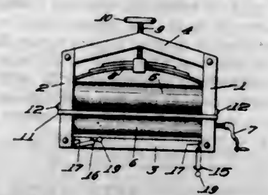
1. An anchor of the class described, having a clamping member at one side of the rail base and a lever member at the other side of the base with a body portion extending underneath the base and a fulcrumed projection on the lever end adapted to clamp tightly to the corner of the base of the rail as the lever end is turned over in securing the anchor to the rail.

1,689,004. APPARATUS FOR WAVING HAIR. CHARLES S. ACKLEY, New York, N. Y. Filed Mar. 26, 1925. Serial No. 18,349. 14 Claims. (Cl. 219—26.)



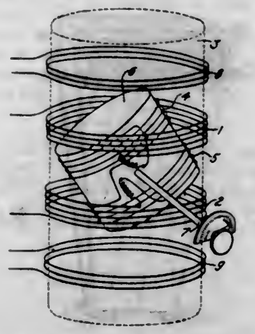
7. Apparatus for waving hair comprising a plurality of electrical connectors, each connector being adapted for connection to a hair waving device, an electrical circuit connected to said connectors, a master heater in said circuit and a thermostatic switch associated with said master heater for opening and closing said circuit.

1,689,005. MANGLE. HJALMAR AHLIN, Chicago, Ill. Filed Feb. 10, 1926. Serial No. 87,319. 1 Claim. (Cl. 68—13.)



A device of the character described comprising a frame having side members, rollers journalled between the side members, clamp members pivoted at the inner surfaces of the side members adacent the lower ends thereof and having surface engaging ends adapted for swinging movement in the vertical plane of said frame from positions between and above the lower ends of said members to positions below the said ends for securing the frame to a horizontally disposed plane surface.

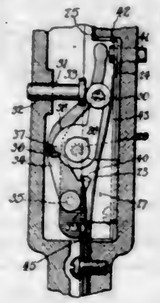
1,689,006. VARIABLE-INDUCTANCE DEVICE. MILTON K. AKERS, Troy, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Dec. 31, 1919, Serial No. 348,555. Divided and this application filed Dec. 12, 1925. Serial No. 75,024. 6 Claims. (Cl. 171—119.)



1. In a variable inductance, a tubular core, a stator winding on said core, a second winding of a separate circuit on the core alongside the stator winding and in fixed rela-

tion thereto, a rotor winding adjustable in the tubular core about an axis disposed at an angle to the axis of the tubular core and carrying a winding positioned by the rotor to cooperate with both the stator winding and the second winding.

1,689,007. THERMOSTATIC SWITCH PLUG. CHARLOTTE ARNESEN, Chicago, Ill. Filed Mar. 24, 1926. Serial No. 96,921. 16 Claims. (Cl. 200—138.)

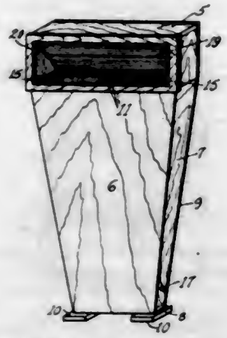


1. In a plug of the character desired, a switch device comprising a pair of relatively movable contact members normally tending to move into spaced relation, a bracket having an arm pivoted thereto, a push button for swinging said arm, a second arm also pivoted on said bracket, a latch device operatively associated with said arms and adapted releasably to hold the first arm against movement and the contact members together, and means for moving the second arm to release said latch device.

1,689,008. ANTISEPTIC, ANTIFOULING, GERMICIDAL WATERPROOF COATINGS. ARTHUR BIDDLE, Trenton, N. J., assignor to United Products Corporation of America, a Corporation of Delaware. Filed July 3, 1926. Serial No. 120,531. 1 Claim. (Cl. 134—40.)

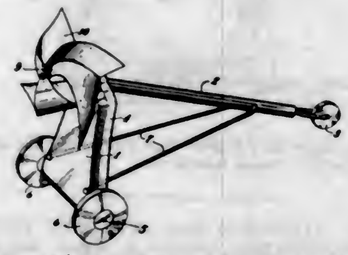
A composition of matter including an intimate mixture of a poisonous compound of arsenic substantially twenty parts by weight, casein substantially three parts by weight and rubber latex substantially ten parts by weight, said compound being dilutable with water up to four thousand parts by weight to provide a fluid which may be sprayed upon various objects to preserve the same from attack by noxious animal and vegetable life.

1,689,009. HORN FOR LOUD SPEAKERS. STEPHEN H. BYRNS, Kansas City, Mo. Filed Aug. 15, 1927. Serial No. 213,024. 1 Claim. (Cl. 181—27.)



A horn construction for loud speakers comprising a casing constructed entirely of wood material and having a partition structure dividing said casing into a pair of tapered horn chambers having receiving openings for loud speaker units, a sheet of relatively thin wood material mounted longitudinally within each of said horn chambers in spaced relation to the front and rear walls thereof, and an outlet compartment communicating with the outer or discharge ends of both of said horn chambers.

1,689,010. WHEELED WIND TOY. MARY COHN, New York, N. Y. Filed Jan. 7, 1928. Serial No. 245,216. 2 Claims. (Cl. 46—48.)

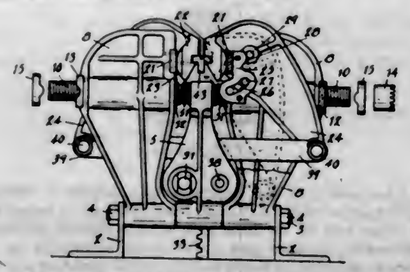


1. A wind toy comprising a light wind receiving and deflecting plate, a wheel adapted to support the plate at its base, a tubular rearwardly extending support, a wheel carried by said support at its lower end, a strut member extending from the lower end of the tubular support and connecting the latter with the plate, a light propeller, and a shaft for said propeller extending through the plate and supported hereby, as and for the purpose set forth.

1,689,011. CUTTING OIL AND PROCESS OF PRODUCING SAME. MYRON PARK DAVIS, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 3, 1926. Serial No. 85,750. 2 Claims. (Cl. 87—9.)

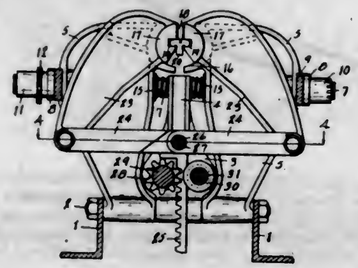
1. The process of compounding cutting oil, which comprises heating a lard oil to a temperature in the neighborhood of from 450° F. to 475° F., while thoroughly agitating the same, discontinuing the heating and introducing finely divided flowers of sulphur in the proportion of approximately 20 pounds of sulphur to 10 gallons of lard oil with thorough agitation, allowing the resulting action to continue for a few minutes and thereafter adding paraffin oil of a viscosity in the neighborhood of 100 seconds at 100° F. Saybolt standard until 4 to 7 gallons of paraffin oil are added to each 10 gallons of lard oil, continuing to stir the mixture while the reaction proceeds, and after all action has subsided diluting the material with a further quantity of paraffin oil to a total volume of approximately 50 gallons for each 10 gallons of lard oil.

1,689,012. MACHINE FOR APPLYING BELT FASTENERS AND THE LIKE. JAMES K. DIAMOND, Grand Rapids, Mich., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Filed Apr. 29, 1926. Serial No. 105,424. 24 Claims. (Cl. 1—49.4.)



14. In a structure of the class described, the combination of opposed jaw supports mounted for adjustment to and from each other and provided with opposed thrust bearing surfaces, jaws provided with bearings mounted to coact with said thrust bearings of said jaw supports, said jaws having jaw faces above the planes of their axial centers, a fastener holder floatingly mounted between said jaws, and means for actuating said jaws.

1,689,013. BELT-FASTENER-APPLYING MACHINE. JAMES K. DIAMOND, Grand Rapids, Mich., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Filed Apr. 29, 1926. Serial No. 105,425. 11 Claims. (Cl. 1—49.4.)

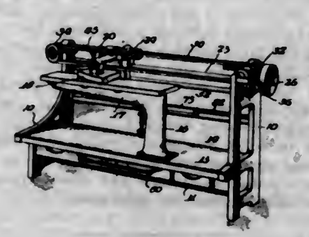


6. In a structure of the class described, the combination of opposed jaw supporting members provided with segmental facing bearings, coacting jaws of segmental cross section disposed in said bearings, said jaws having radially disposed jaw faces lying within the arcs of said bearings, a fastener holder floatingly mounted on said jaws at approximately the axial center thereof, and means for opening and closing said jaws.

1,689,014. REDUCTION OF AROMATIC NITRO COMPOUNDS. PAUL DIETERLE, Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 4, 1926. Serial No. 79,270. 16 Claims. (Cl. 260—130.5.)

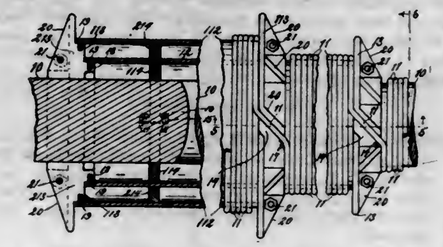
1. A method of reducing an aromatic nitro compound which comprises subjecting the nitro compound to the action of ferrous sulfide.

1,689,015. IRONING MACHINE. HUBERT C. ELLIS and NORMAN C. ELLIS, Evanston, Ill. Filed Mar. 20, 1926, Serial No. 96,113. Renewed Sept. 6, 1928. 13 Claims. (Cl. 68—9.)



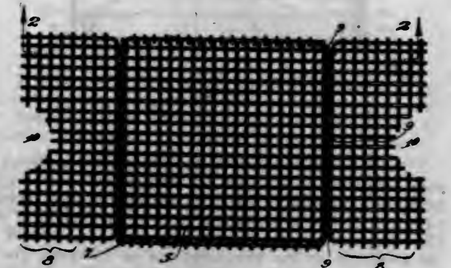
1. In an ironing machine, the combination of a frame, an ironing table, a horizontally reciprocable carriage, a flat-iron mounted on the carriage and to reciprocate horizontally over the table, friction-gearing, mechanism for reciprocating the carriage driven by said gearing, and means mounted to travel with the carriage for controlling the gearing to start and stop the iron at will at any point within its range of travel.

1,689,016. WINDLASS CONSTRUCTION. WALTER W. ERLEWINE, Long Beach, Calif., assignor to Marion Machine, Foundry & Supply Company, Marion, Ind., a Corporation. Filed Feb. 7, 1927. Serial No. 166,421. 6 Claims. (Cl. 242—117.)



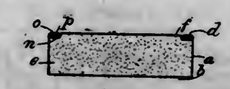
1. A change speed windlass construction including a cable winding member of relatively small diameter, a cable winding tubular member of greater diameter removably mounted on a portion of said smaller member, an annular flange surrounding the smaller member and connected with each end of the larger member and having an inclined groove therein for the cable to pass from one member to the other, and a spacer removably mounted on the smaller member for supporting the larger member intermediate its ends substantially as set forth.

1,689,017. PLANT CONTAINER. JOSEPH T. FEWKES, Philadelphia, Pa. Filed Apr. 11, 1927. Serial No. 182,626. 1 Claim. (Cl. 47—37.)



A container, composed of woven wire mesh, including a flat rectangular bottom, a continuous side wall rigidly secured to the bottom and having a border wire extending around its upper edge, half covers resting on the upper edge of the side wall and each having a border wire along its outer edge and a notch extending inwardly from its inner edge, and links encircling the border wire along the outer edge of each half cover and the adjacent portion of the border wire in the side wall to form hinges; whereby the container may be embedded in the ground with a plant growing therein and extending through the aperture formed by the notches in the half covers and raise said half covers as it increases in size due to the hinged connection of the covers to the side walls.

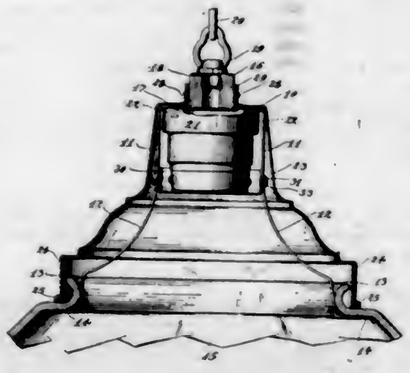
1,689,018. PACKING CONTAINER. MARCEL FROIDEVAUX, Geneva, Switzerland, assignor to Kustner Freres & Cie., Société Anonyme, Geneva, Switzerland, a Swiss Company. Filed Dec. 12, 1924, Serial No. 755,419, and in Switzerland Dec. 20, 1923. 3 Claims. (Cl. 206—46.)



3. A container of very thin metal comprising a body having an integral bottom and an opening at the top, an exterior laterally extending flange surrounding said
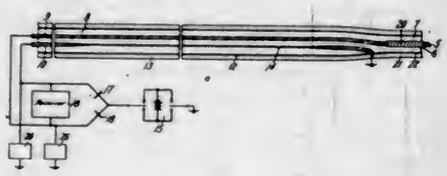
opening, and a cover to be disposed upon the flange, the edges of the flange and cover, after the container has been filled with substantially solid or semisolid materials, to be turned over together and pressed inward of the container until they are flush with the outer surface of the cover, the materials in the container bracing the thin metal thereof from within when the edges of the cover and flange are being bent, and cooperating with the external pressure to cause said edges to form a seam around the outside of the container.

1,689,019. LIGHTING FIXTURE. FRED W. L. FULLERTON, Maplewood, N. J., and MICHAEL A. BELLONE, St. Albans, N. Y., assignors to Full-O-Lite Company, Inc., New York, N. Y., a Corporation of New York. Filed July 7, 1927. Serial No. 203,884. 4 Claims. (Cl. 240—133.)



1. In a lighting fixture, a globe support comprising a yoke consisting of a single flat strip of material shaped to form a horizontal top with depending sides having out-turned lower ends adapted to enter the mouth of the globe at opposite sides thereof, a lamp receptacle fixed to the underside of the horizontal top of the yoke, and a shell covering the yoke and seated upon the outer surface of the globe.

1,689,020. SUBMARINE SIGNALING. JOHN J. GILBERT, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 1, 1926. Serial No. 112,840. 8 Claims. (Cl. 178—63.)



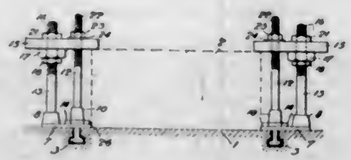
1. In a submarine signaling system, a loaded cable, receiving apparatus and a sea-earth connection for said cable, and a twin core terminal section connecting said cable to said sea-earth connection through said receiving apparatus, said terminal section having a distributed inductance different from said cable.

1,689,021. CLINCHING TOOL. BENJAMIN F. GILLES, Watertown, Wis., assignor to G. B. Lewis Company, Watertown, Wis., a Corporation of Wisconsin. Filed Aug. 6, 1926. Serial No. 127,613. 4 Claims. (Cl. 1—47.)



2. A tool of the character described, comprising a body portion having a slot therein adapted to embrace a nail extension, and means over which the nail may be struck to direct its point back upon itself, said means being tapered to accommodate nail extensions of different lengths.

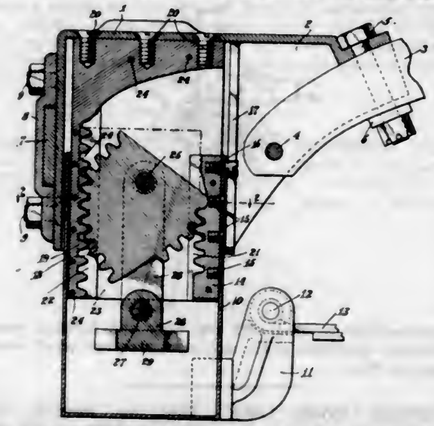
1,689,022. COMBINED CLAMPING AND SUPPORTING DEVICE. HENRY GRAHAM, Uriksdal, Sweden. Filed Mar. 25, 1927, Serial No. 178,472, and in Germany Jan. 2, 1926. 5 Claims. (Cl. 90—59.)



1. A combined clamping and supporting device for clamping work pieces to benches on working machines and for similar purposes, comprising a pivot member adapted to be locked to the bench in adjustable positions, and an arm like member pivotally fastened to said pivot member, means for locking the pivot member in adjusted positions on the bench and for locking the armlike member in adjusted position in relation to the pivot member, a screw-threaded member extending from the pivot member, and another screw threaded member fastened to the armlike member, said screw threaded members carrying a clamping member and being provided with nuts for holding the clamping member in any desired position and thereby pressing said clamping member against the work piece.

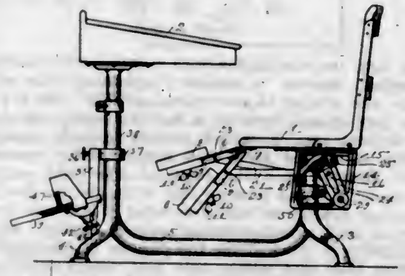
1,689,023. CONNECTING DEVICE. LOUIS D. GREGG, Hackensack, N. J. Filed Mar. 6, 1926. Serial No. 92,664. 21 Claims. (Cl. 267—2.)

1. In a device of the character disclosed, the combination of pressure transmitting means connecting two parts while permitting a limited relative movement of one with respect to the other, means adapted to maintain substantially constant the pressure transmitted by the pressure transmitting means from one part to the other whatever their relative position may be, and means providing a normalizing pressure tending to restore to and to hold said parts in



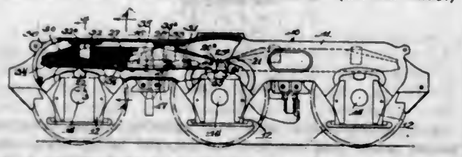
their normal spaced relationship one to the other whenever moved therefrom by abnormal pressure conditions.

1,689,024. SEAT STRUCTURE. GEORGE H. HAMILTON, Grand Rapids, and ROY A. WHITE, Walker Township, Kent County, Mich., assignors to American Seating Company, Grand Rapids, Mich., a Corporation of New Jersey. Filed July 5, 1927. Serial No. 203,496. 6 Claims. (Cl. 155—171.)



1. In a structure of the character described: a seat; a leg rest mounted in connection therewith swingably in a vertical plane; means carried in connection with the seat for holding the leg rest in adjustable swung positions, comprising a fixed member having an arcuate surface, a swingably mounted member having a surface inclined to said arcuate surface, a clamping element adapted to be moved along said surfaces, means for releasably moving said element into wedgingly clamping engagement between said surfaces, and connections between the leg rest and said second-mentioned member for swinging the leg rest by the swinging movement of said second-mentioned member.

1,689,025. SIX-WHEEL TRUCK. CLARENCE B. HARRISON, Lima, Ohio, assignor to The Ohio Steel Foundry Company, Lima, Ohio, a Corporation of Ohio. Filed July 25, 1927. Serial No. 208,140. 6 Claims. (Cl. 105—195.)



1. A car truck having side frame members, three wheel axles, journal boxes for said axles, an equalizer bar extending from each center journal box to the two adjacent end boxes, and two leaf springs interposed between each equalizer bar and its respective side frame member, said springs being arranged with the center between them disposed substantially two-thirds the distance from the center box to said end journal box.

1,689,026. FREQUENCY ARRANGEMENT IN CARRIER-WAVE SYSTEMS. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Inc., New York, N. Y., a Corporation of New York. Filed July 20, 1921. Serial No. 486,069. 6 Claims. (Cl. 250—9.)



1. A system of radio communication comprising a group of multi-two-way-channel stations, a second group of two-way-channel stations, a channel of each being adapted to cooperate with a channel of one of the first mentioned stations, the distance between cooperating stations being substantially less than that between any two non-cooperating stations in different groups of stations, and transmitting and receiving circuits at each of said stations, the frequency spacing between the receiving channels of each of the stations of the first group being substantially greater than the minimum spacing between the receiving channels of the different stations of the first group.

1,689,027. FISH BAIT. WARREN W. HELLE, Hinsdale, Ill. Filed Nov. 15, 1926. Serial No. 148,532. 6 Claims. (Cl. 43—39.)



4. An artificial bait comprising a central shaft with a plurality of hooks projecting therefrom, and a collapsible member for protecting the hook points from entanglement with weeds, said collapsible member being of general spherical shape with a downwardly projecting tubular apron, the hook shaft extending through the center of the spherical portion and the tubular apron extending along the shank of the hooks, the hook points being close to but not in engagement with the outside walls of said spherical portion.

1,689,028. PROCESS OF PRODUCING A CHOCOLATE MILK COMPOSITION. WILBERT A. HEYMAN, New York, N. Y. Filed May 4, 1927. Serial No. 188,871. 6 Claims. (Cl. 99—11.)

1. The herein described process of producing a beverage compound or the like, which consists in mixing cocoa powder having a low fat content with a suitable liquid, heating said mixture to a temperature sufficiently high to break up the starch cells of the cocoa, homogenizing said mixture, mixing the homogenized mixture with a lactil fluid, heating said resultant mixture to such temperatures as will either sterilize or Pasteurize the same, and then removing the moisture from the liquid to reduce the solids to powdered form.

1,689,029. CHOCOLATE MILK COMPOSITION. WILBERT A. HEYMAN, New York, N. Y. Filed May 4, 1927. Serial No. 188,872. 6 Claims. (Cl. 99—11.)

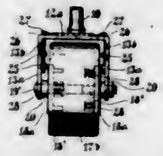
1. A soluble food or beverage product in powdered form, consisting of acid neutralized cocoa having a low fat content, the latter having its starch cells broken up, and milk solids.

1,689,030. ACOUSTIC DIAPHRAGM. NEWMAN H. HOLLAND, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 12, 1926. Serial No. 115,472. 1 Claim. (Cl. 181—32.)



An acoustic diaphragm comprising a thin metallic disc of porous construction.

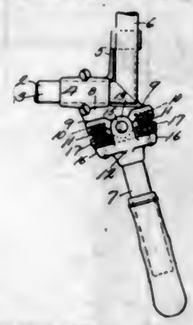
1,689,031. CASTER. BAPTISTE HOSSARD, Maspeth, N. Y. Filed Nov. 7, 1927. Serial No. 231,508. 3 Claims. (Cl. 16—18.)



1. A caster, comprising a bracket adapted for engagement in a socket member, and having hingedly connected side members adapted for convenient disconnection, a wheel rotatively arranged on the side members, bolts passing thru the tops of the bracket and thru the lugs and arranged for locking the side members in vertical positions, and means for holding the bolts against displacement.

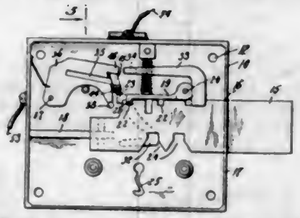
1,689,032. TILLER FOR OUTBOARD MOTORS. HARRY L. JOHNSON, Indianapolis, Ind., assignor to Johnson Brothers Engineering Corp., a Corporation of Indiana. Filed July 2, 1926. Serial No. 120,174. 6 Claims. (Cl. 115—18.)

1. The combination with a marine motor rotatable in a horizontal plane for steering, a tiller pivotally connected to said motor, of yieldable connections between the tiller and motor at opposite sides of the pivotal point of and



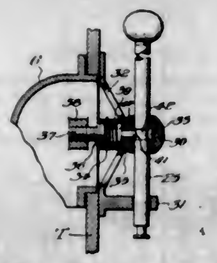
substantially parallel with the tiller and forming means whereby vibrations of the motor are absorbed before reaching the tiller.

1,689,033. DOOR LOCK. BENJAMIN KOVACS, New Brunswick, N. J. Filed Feb. 24, 1927. Serial No. 170,539. 1 Claim. (Cl. 200—55.)



In a lock, the combination with a casing, of a locking bolt slidable therein, a tumbler co-operating with said bolt, an arm pivoted to said casing provided with a pin in the path of said tumbler, a metallic contact member fixed to said arm, a second metallic contact member normally disengaged from said first-mentioned contact member mounted upon and insulated from said casing, said contact members forming part of an electric circuit, the contact member on said arm being shifted into contact with said second-mentioned contact member when said tumbler is actuated for the purpose of disengaging the same from said locking bolt, said second-mentioned contact member being hinged to said casing so as to permit the same to be shifted out of the path of said first-mentioned contact member.

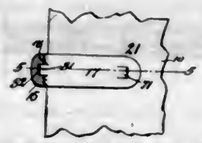
1,689,034. WASTE-VALVE MECHANISM. HERMAN W. KUEHL, Chicago, Ill., assignor to Brass Products Company, a Copartnership consisting of Harry W. Anderson and said Herman W. Kuehl, Chicago, Ill. Filed Nov. 21, 1927. Serial No. 234,574. 2 Claims. (Cl. 4—195.)



1. In combination with a receptacle having interconnected waste and overflow outlets, the latter being provided with a strainer plate and the former with a valve,

a lift rod connected with the valve and extending upwardly within the receptacle past the strainer plate, guiding means for the lift rod having a connection with the strainer plate, and a screw device carried by the guiding means adapted to engage with the connection from the overflow whereby to secure the strainer plate in place, substantially as described.

1,689,035. WINDSHIELD-WING MOUNTING. WILLIAM LA HODNY, Buffalo, N. Y., assignor to Standard Mirror Company Inc., Buffalo, N. Y., a Corporation of New York. Filed June 10, 1925. Serial No. 36,157. 1 Claim. (Cl. 296—84.)

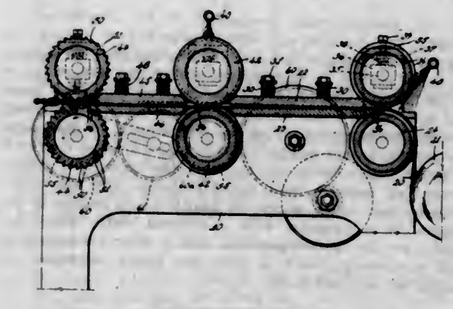


A mounting for windshield wings including a U-shaped head having jaws adapted to be arranged on opposite sides of the edge portion of a wing and provided on the end portions of their inner sides with front recesses and in the bight between said jaws with rear recesses; a U-shaped clip having its legs arranged between the jaws of the head and the sides of the windshield and having laterally projecting tongues stamped out of the end portions of said legs and engaging with said front recesses and also having a tongue stamped out of the turn of said clip and engaging with said rear recess; and a clamping screw arranged on one of said jaws and engaging with one of the legs of the clip.

1,689,036. WATER SOFTENING. PAUL E. LEISS, Youngstown, Ohio. Filed Nov. 1, 1923. Serial No. 672,224. 13 Claims. (Cl. 210—23.)

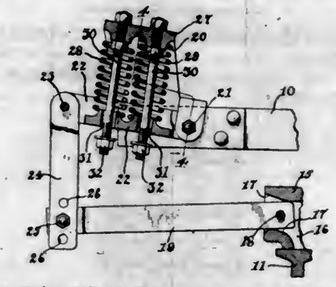
1. The process of softening water, comprising mixing barium carbonate and calcium hydroxide with water, and thereafter adding the mixture to the water to be softened, substantially as described.

1,689,037. MACHINE FOR MAKING ELASTIC PAPER. WILLIAM A. LORENZ, West Hartford, Conn., assignor to The Otaka Fabric Company, West Hartford, Conn., a Corporation of Connecticut. Filed Apr. 2, 1927. Serial No. 180,588. 7 Claims. (Cl. 92—69.)



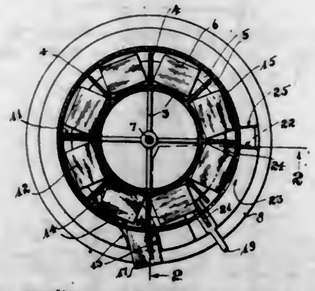
1. In a machine for longitudinally corrugating paper and narrowing it in width, a pair of plates provided on their opposed surfaces with corrugations in meshing relation, the corrugations converging towards the delivery end and gradually increasing in height towards that end, rollers for passing the paper between said plates, means for adjusting the distance between said plates, and means for resiliently urging said plates towards one another.

1,689,038. SPRING SUSPENSION FOR VEHICLES. GEORGE A. LUNZ, Buffalo, N. Y. Filed Mar. 30, 1927. Serial No. 179,638. 10 Claims. (Cl. 267—20.)



1. In a motor vehicle, the combination with the chassis thereof including a frame and axle, of resilient suspension means for connecting the frame and axle, comprising a pair of vertically-movable members disposed one above the other in substantially parallel relation one being fulcrumed on the axle and the other being fulcrumed on the frame, means for connecting the free ends of said members to each other, and cushioning means applied to one of said members for resisting relative movement of the frame and axle.

1,689,039. VENDING MACHINE. GEORGE MARSDEN, Los Angeles, Calif. Filed June 4, 1925. Serial No. 34,895. 2 Claims. (Cl. 312—64.)



1. In a vending machine, a base-member, a storing drum disposed rotatably above the base-member having vertically disposed sections in which articles may be held and moved in a circular path one on top of another preparatory to being vended, the base-member having a recessed path and guideway below the stored articles and of a form so that the whole pile of stored articles in any of the sections of the drum may drop to the extent of the depth of the recessed path upon reaching a position above the path, the guideway being curved outwardly from such circular path including a discharging opening in the base so that articles may be caused to discharge from the stored piles upon rotation of the drum, and means for rotating the drum.

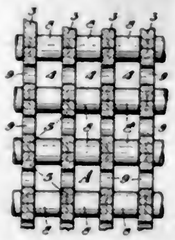
1,689,040. ARCH-SUPPORT MARKER. PAUL F. MARRON, Santa Barbara Calif. Filed Nov. 22, 1926. Serial No. 150,017. 3 Claims. (Cl. 33—3.)



1. In an arch support marker, a measuring rod having a portion adapted to maintain a certain relation to a foot, and an indicator shiftable on the rod and being of a

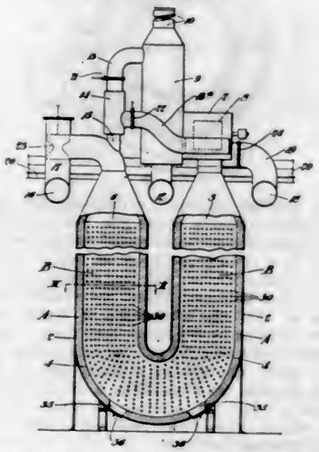
form equivalent to a forward-arch support-button and having a marking edge on its underside adapted to mark the contours of the indicator in a shoe.

1,689,041. CHECKERWORK FOR REGENERATIVE CHAMBERS. FRANK R. MCGEE, Steubenville, Ohio. Filed Aug. 6, 1926. Serial No. 127,650. 4 Claims. (Cl. 72—15.5.)



1. A checkerwork for regenerative chambers comprising a plurality of vertically disposed spaced partition walls forming gas channels, said walls being composed of a plurality of individual tiles laid edgewise one on the other, said tiles being recessed to provide transverse openings in said walls, some of said openings remaining unobstructed to form gas passagewnys between said gas channels, and solid tiles extending transversely of said gas channels and having their ends built into others of said openings and serving to maintain said walls in spaced relation and to baffle the gases passing through said channels.

1,689,042. HOT-BLAST STOVE. FRANK R. MCGEE, Steubenville, Ohio. Filed Aug. 9, 1926. Serial No. 128,251. 6 Claims. (Cl. 263—19.)

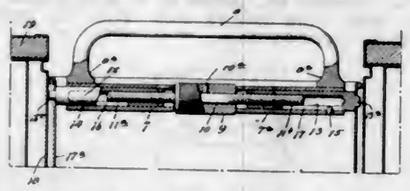


1. A single pass hot blast stove comprising a substantially U-shaped shell having frusto-conical end portions, a checkerwork built in said shell and terminating short of each end, the frusto-conical spaces at each end forming distributing and collecting chambers for the gases passing through said checkerwork.

1,689,043. METHOD OF MAKING ALLOY STEELS. CHARLES MCKNIGHT, Jr., Sewickley, Pa., assignor to The International Nickel Company, New York, N. Y., a Corporation of New Jersey. Filed June 8, 1925, Serial No. 35,788. Renewed Mar. 13, 1928. 7 Claims. (Cl. 75—45.)

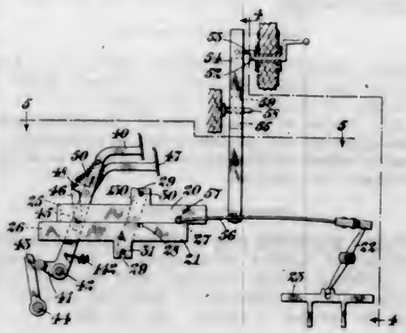
1. The method of stabilizing the solidification of an alloy steel casting formed from scrap initially having a high silicon content, which consists in melting the metal under oxidizing conditions until the silicon content is below a critical point, wherein the silicon does not exceed .1%, subjecting the metal to a reducing condition and adding alloying materials thereto.

1,689,044. LIFTING AND CARRYING DEVICE. ADOLPH MEYER, Woodhaven, N. Y., assignor of one-third to Harry A. Elflein and one-third to Frederick C. Elflein, Woodhaven, N. Y. Filed June 10, 1926. Serial No. 114,912. 6 Claims. (Cl. 16—114.)



1. A detachable handle for receptacles and the like having openings located in the walls thereof, comprising a support, a hand grip associated therewith, elements embodying surfaces adapted to enter said openings mounted therein, a shaft having threaded engagement with each of said elements and means for rotating said shaft to simultaneously move said elements in opposite directions.

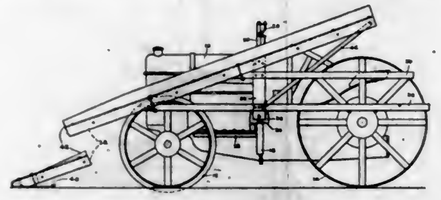
1,689,045. MECHANISM FOR ACTUATING CHANGE-SPEED GEARS. HENRY MORAN, London, England. Filed Oct. 6, 1927, Serial No. 224,409, and in Great Britain Oct. 18, 1926. 11 Claims. (Cl. 74—58.)



1. In gear-selecting mechanism of the character described, the combination with a plurality of sliders for controlling the gears, and a single gear-change lever adapted to be moved to engage any one of the sliders, of a clutch pedal, connections between the gear-change lever and said clutch-pedal which restore the sliders to neutral position upon movement of the clutch-pedal to disengage the clutch, a gear selector device adapted to be operated to select a gear before the clutch is disengaged, a yielding connection between said selector device and the gear-change lever which urges the gear-lever to engage or to remain in engagement with a selected slider when the sliders are in neutral position, and a lever connected to said gear-change lever to shift the latter thereafter to engage the selected gear.

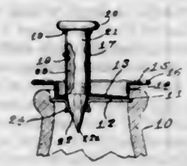
1,689,046. STALK-LIFTING ATTACHMENT FOR TRACTORS. ROBERT W. OLSON, Amboy, Minn., assignor of one-half to Willard M. Bollenbach, Lamberton, Minn. Filed July 14, 1926. Serial No. 122,388. 2 Claims. (Cl. 56—119.)

1. A stalk-lifting attachment for tractors employed for pulling harvesters for crops grown in rows comprising a bracket arranged for fastening directly to the tractor, a pickup frame mounted on said bracket and extending past the rear of the tractor, and an inclined guide for stalks carried by said frame in such manner that its forward end



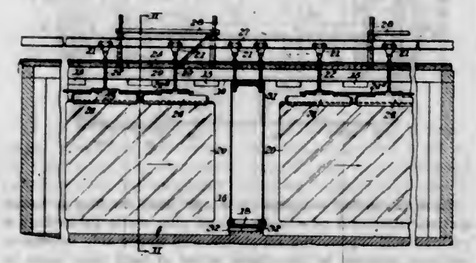
is positioned adjacent the ground in advance of one of the front wheels of the tractor and its other end extends above the corresponding rear wheel of the tractor.

1,689,047. BOTTLE-CAP PIERCER. WARREN J. PACKER, Meriden, Conn. Filed Mar. 29, 1927. Serial No. 179,343. 10 Claims. (Cl. 164—119.)



1. In a device for piercing a hole in a milk bottle cap, a base shaped to fit upon the cap within the neck of said bottle, and a pointed plunger slidably carried by said base for penetrating said cap, said base having a laterally extending flange to fit over the edge of said bottle.

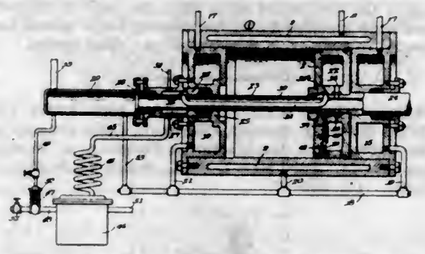
1,689,048. METHOD OF AND APPARATUS FOR ANNEALING GLASS. FRANK W. PRESTON, Butler, Pa. Filed May 5, 1927. Serial No. 189,095. 7 Claims. (Cl. 49—47.)



4. The method of annealing sheet glass, which comprises passing a plurality of sheets of glass through a lehr in tandem relation, preventing flow of air past the space between adjacent edges of said sheets, and subjecting each sheet to different temperature conditions.

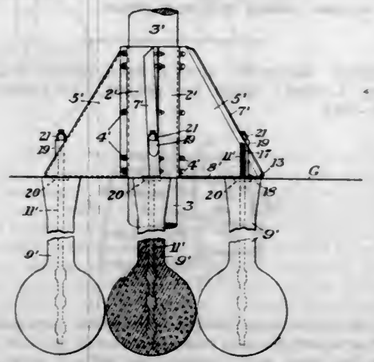
1,689,049. VAPOR MOTOR OR ENGINE. JOSEPH G. PROSSER, Chicago, Ill. Filed Dec. 14, 1923. Serial No. 680,738. 3 Claims. (Cl. 121—181.)

3. An engine comprising a cylinder having a discharge for piston-condensate, a jacketed piston reciprocable in the cylinder, a conduit for supplying a heating-agent to the jacket of the piston, and having an inlet-opening, a conduit for discharging condensate from the jacket and having an outlet-opening, a tail-rod encompassing portions of the supply and discharge conduits, one of said openings being in the outer surface of the tail-rod and the other opening being so located in respect to the end of the tail-rod that the condensate may have



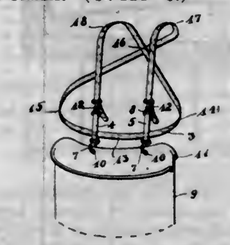
passage at that end when the tail-rod is withdrawn into the cylinder, and means for causing the pressure in the piston to expel from the engine condensate forming in the piston.

1,689,050. POLE SUPPORT. WAYNE RAWLEY, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Aug. 5, 1925. Serial No. 48,261. 2 Claims. (Cl. 248—38.)



1. A pole support comprising a plurality of sleeve sections each having a vertical substantially radial wing projecting therefrom at one vertical edge thereof and having a flange projecting therefrom on the other vertical edge whereby the wing of one section is adjacent the flange of an adjacent section, and securing means passing through the respective wings and flanges.

1,689,051. COMBINATION PAIL AND HARNESS. WILLIAM H. RICHARDSON, Roscoe, and EMIL F. MASL, Chatsworth, Calif. Filed June 27, 1927. Serial No. 201,935. 2 Claims. (Cl. 224—5.)



1. In a combination harness and pail structure, a strap made in a plain straight form having adjustable engaging means at both ends, comparatively short straps secured intermediate the ends of the first-named strap embodying securing means at the ends projecting from one side and

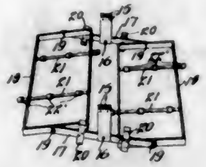
engaging means from the opposite side of the first-named strap, whereby any load applied to said securing means transmits pulling stresses directly through said short straps to the first-named strap when the ends of the first-named strap are placed over the shoulders of a person and connected to the engaging means of the short straps.

1,689,052. NOISE AND VIBRATION REDUCING DEVICE. HOMER L. ROGERS, Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Mar. 1, 1926. Serial No. 91,422. 8 Claims. (Cl. 295—7.)



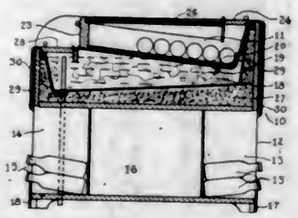
1. A noise reducing pad composed of an asphaltic rubber and fibrous composition having a major proportion of asphaltic material preformed to fit the contour of a portion of a movable mechanical device and means for holding said pad in close contact with said device.

1,689,053. HARROW. JOHN F. RUDE, Liberty, Ind. Filed Oct. 7, 1926. Serial No. 140,065. 11 Claims. (Cl. 55—88.)



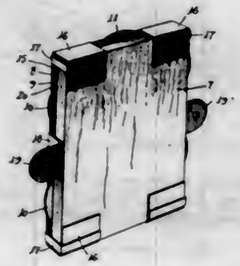
1. A harrow comprising a main frame, adjustable supporting wheels for said frame, a series of pairs of hangers depending from said frame, a bar pivoted between each pair of hangers, frames pivoted to the ends of said bars, ground treating devices carried by said frames, and means for limiting the movement of said frames carried by said bars, substantially as set forth.

1,689,054. BOTTLE COOLER. JOSEPH SAMUELS, Toronto, Ontario, Canada. Filed June 22, 1927. Serial No. 200,648. 2 Claims. (Cl. 312—36.)



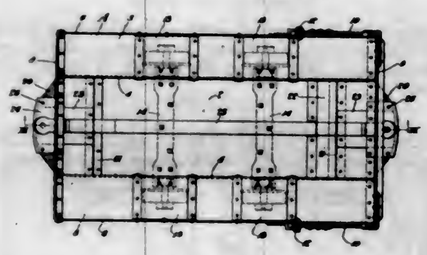
1. In a bottle cooler, an ice chamber and a reservoir chamber, an ice box in said ice chamber having the cover thereof divided off into a plurality of sections by flanges forming slideways for a corresponding number of pans adapted to contain a plurality of bottles, said ice box cover being on a slanting plane, a plurality of doors leading to said ice chamber for inserting the ice and bottles and a plurality of outward doors adapted for removing the bottles from said ice chamber.

1,689,055. RECORDING DEVICE. MORRIS B. SANDERS, Little Rock, Ark. Filed Mar. 7, 1928. Serial No. 259,853. 3 Claims. (Cl. 40—70.)



3. A device of the character described comprising a sheet having openings therein, a back behind said sheet, disks mounted for rotation between said sheet and back and having numerals to be exposed through said openings, and a frame in front of the marginal portion of said sheet and having rearwardly bent portions, some of which engage behind the back and the other portions having outstanding ears for the engagement of securing elements to fasten the device to an instrument board or other support, said disks projecting from said sheet and back between said portions.

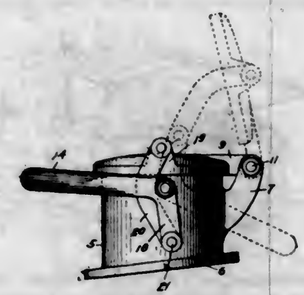
1,689,056. MINE CAR. OTTO SANN, Johnstown, Pa. Filed Apr. 20, 1928. Serial No. 271,516. 4 Claims. (Cl. 105—364.)



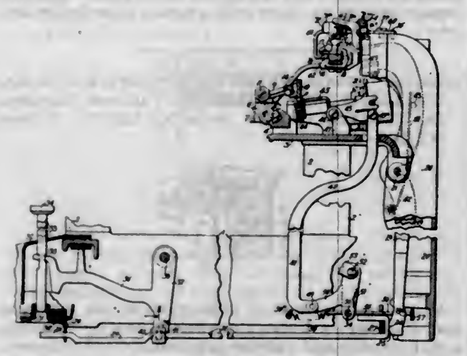
1. A mine car comprising a car body having a lower section composed of a bottom and side walls formed as a unitary self-supporting structure, and upper side extension portions secured to the upper edges of said side walls of said lower section and composed of horizontal and vertical walls, end walls for closing the ends of said body, at least one of said end walls being hinged, a pair of U-shaped combined axle and body stiffening members extending along and secured directly to the bottom and sides of said lower section of said body, spindle members projecting from the portion of said axle and stiffening members extending along the sides of the lower section of said body, and wheels journaled on said spindles.

1,689,057. CLOSURE. WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company, a Corporation of West Virginia. Filed Dec. 18, 1925. Serial No. 76,199. 4 Claims. (Cl. 220—36.)

1. A gauge hole cover including in combination a body member, a lid hinged thereto and mechanism for raising and lowering said lid including an operating lever and a link connecting said lever to said lid, a resilient member adapted to cooperate with said lid when in lowered position, said link being formed so that movement of said lever to compress said resilient member will lock said lid in closed position.



1,689,058. TYPEWRITING MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Feb. 19, 1926. Serial No. 89,350. 23 Claims. (Cl. 197—176.)



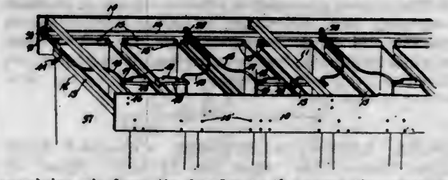
11. In a typewriting machine, the combination of a carriage, tabulating mechanism therefor comprising a set of key-controlled denominational tabular stops, anti-rebound rack-and-pawl mechanism comprising a pawl, and operative connections between said pawl and said denominational stops.

1689,059. METHOD OF PREVENTING DECOMPOSITION OF BICARBONATES IN SOLUTION. JOSEPH ALLAN SHAW, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Oct. 3, 1925. Serial No. 60,366. 7 Claims. (Cl. 23—244.)

1. The method of preventing the decomposition of bicarbonates in solution upon heating thereof, which includes covering the solution with a substantially immiscible liquid of low vapor pressure.

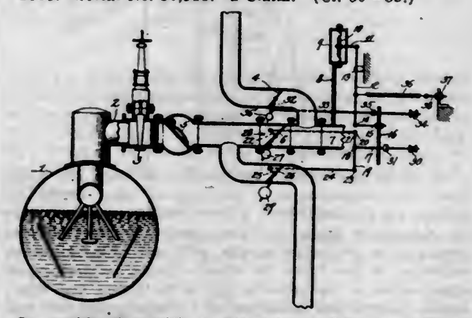
1,689,060. CAN GRID. NORMAN M. SMALL and LEON BUEHLER, Jr., Waynesboro, Pa., assignors to Frick Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Oct. 6, 1925. Serial No. 60,896. 11 Claims. (Cl. 62—159.)

1. A grid for holding a plurality of freezing cans comprising a frame, means on the inner surface of the frame for supporting said cans, a header on the inner surface of the frame above said supporting means, and means for



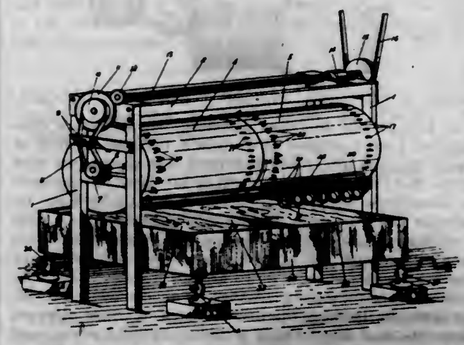
supplying air from the header to the respective cans, substantially as set forth.

1,689,061. STEAM-ACCUMULATOR CONTROL. CHARLES H. SMOOT, Maplewood, N. J. Filed Aug. 15, 1925. Serial No. 50,519. 1 Claim. (Cl. 60—39.)



In combination with a steam accumulator, a delivery pipe leading therefrom, a control mechanism for regulating the pressure of steam in the delivery pipe comprising a low pressure valve regulating the supply to said pipe from the accumulator, a high pressure valve regulating the supply of high pressure steam to said pipe, a relief valve for opening a connection from said delivery pipe to a lower pressure, means responsive to the pressure in the delivery pipe, a loading means therefor and linkages connecting the three valves and the pressure responsive means comprising an intermediate member engaging in sequence the high pressure valve, the low pressure valve and the relief valve when moving in response to increasing pressure and in opposite sequence when the pressure falls with a limited movement between the said engagements, whereby as the pressure increases in the delivery pipe the high pressure valve will first be closed, then the low pressure valve and finally the relief valve opened.

1,689,062. PROCESS FOR ENAMELING ARTICLES. PAUL F. TITCHENER, Binghamton, N. Y., assignor to E. H. Titchener & Company, Binghamton, N. Y. Filed Aug. 18, 1926. Serial No. 129,964. 3 Claims. (Cl. 91—71.)

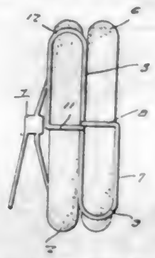


1. The process of enameling articles comprising the steps of dipping the articles in an enameling solution and before

drying dipping them in a thinning solution of said enameling solution and then drying said articles while in motion.

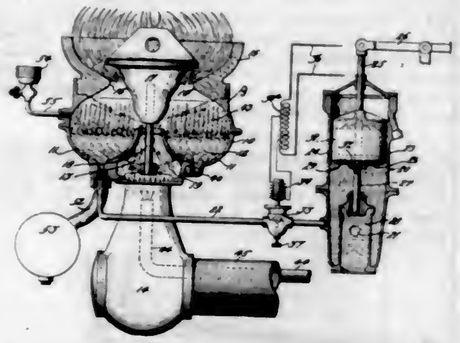
3. The process of enameling articles comprising the steps of sweeping them through an enameling solution, drying them while in motion; sweeping them through a second enameling solution and without drying, dipping them in a thinner of said second solution and then drying them while in motion.

1,689,063. EXTRA-TIRE SUPPORT. CHARLES P. TOMPKINS, Barnett, Mo. Filed Oct. 14, 1927. Serial No. 226,099. 1 Claim. (Cl. 224—29.)



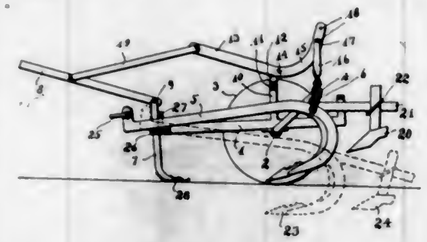
An extra tire carrier for association with the usual spare tire supported on a conventional tire carrier, including an annular frame, a lower saddle construction at one side of the frame, said lower saddle construction consisting of a semi-circular side rail, said ride rail being connected to the frame by arcuate shaped connectors, an upper saddle at the opposite side of the frame, said upper saddle construction consisting of a semi-circular side rail, said side rail being connected to the frame by arcuate shaped connectors, the ends of said side rails being bent inwardly and connected to the annular frame wall on substantially a horizontal plane.

1,689,064. OIL BURNER. THOMAS F. WILLIAMS, Keyport, N. J., assignor to Inglis M. Uppercu, Deal, N. J. Filed Sept. 30, 1925. Serial No. 59,707. 3 Claims. (Cl. 158—92.)



1. A burner of the class described, comprising in combination a bowl adapted to contain a variable quantity of liquid fuel said bowl being so formed that the surface area of the fuel contained therein will be increased or decreased in accordance with the quantity of fuel, a member removably mounted upon said bowl said member providing a mixing chamber above the bowl, an element mounted upon said member and of relatively smaller inside diameter intermediate its ends so as to provide a constricted axial passage over said mixing chamber, an air conductor extending centrally through the bowl with an aperture disposed above the fuel level, and a deflector disposed above said air conductor and extending through said axial passage.

1,689,065. SUBSOIL PLOW. GEORGE W. WYCHE, Arcadia, Calif. Filed Apr. 10, 1926. Serial No. 101,104. 3 Claims. (Cl. 97—78.)



1. In a cultivator, an axle having straight wheel-supporting portions at its opposite ends and having a crank portion intermediate the straight ends, a frame pivotally supported on said straight ends having forwardly and rearwardly extending portions and having a central portion arched upwardly over said crank portion, a lever pivotally supported on said arched portion having one portion extending rearwardly and another portion extending forwardly, a link connecting the rearwardly extending portion of the lever with the crank portion of the axle, a subsoiler shiftably disposed in relation to the forward projecting portion of said frame and suspended from said crank portion, a handle member, and operating means mounted on and pivotally connected to the front end of the said frame in operative connection with the forwardly projecting portion of said lever.

1,689,066. AUTOMATIC SHUT-OFF DEVICE FOR LIQUID DISPENSERS. FREDERICK C. BAXTER, Belvidere, Ill. Filed June 11, 1926. Serial No. 115,221. 1 Claim. (Cl. 226—127.)

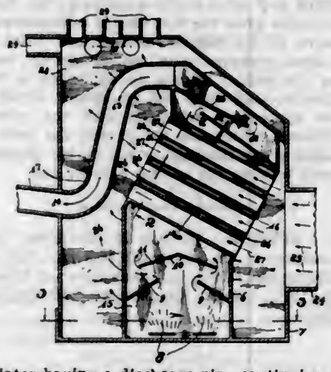


In combination with a delivery spout, an automatic shut off device comprising a partition in said spout defining a float chamber and a discharge passage, a vertically movable float disposed in said float chamber and carrying an upwardly projecting float rod, a hinged valve disposed in said liquid passage and a unitary substantially arcuate connecting member rigidly carried by said valve and projecting into said float chamber having sliding engagement with said float rod and terminating in an upwardly curved open loop adapted to be engaged by said float rod when said valve is open and said float is raised.

1,689,067. AIR HEATER. LOUIS A. BENNER, Anaheim, Calif. Filed May 24, 1926. Serial No. 111,304. 1 Claim. (Cl. 126—116.)

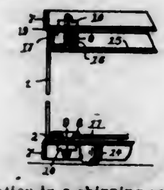
In an air-heater, a housing having an air inlet connection near the bottom at one side and air outlet connections in and near the top near the opposite side of the housing, and a radiator having a combustion chamber substantially in a vertical position and having an inclined portion continuing from the combustion chamber upwardly and transversely across the path from the inlet to the outlet connections in the said housing, the radiator being provided with air conduits in the said inclined portion transversely to the inclined portion and substantially in the direction of the path from the said inlet to the outlet connections and the outside of the radiator being laterally spaced from the inside of the said housing forming comparatively narrow additional air passages between the said inlet and outlet

connections, the radiator having an extension end substantially in a vertical position above the inclined portion adapted to collect and condense the products of combustion after passing around the said air conduits and having a comparatively small outlet in one side near the top, the



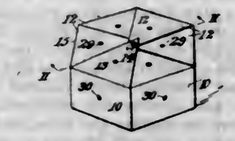
said radiator having a discharge pipe continuing from the said comparatively small outlet in the extension end and extending downwardly within the said housing passing through the rearside of the housing for discharging products of combustion from the radiator.

1,689,068. SHIPPING RECEPTACLE. ORIE O. BROWN, Roseville, Ohio. Filed Nov. 2, 1925. Serial No. 66,383. 9 Claims. (Cl. 220—5.)



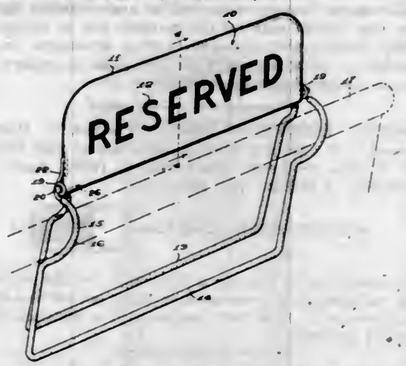
1. The combination in a shipping receptacle, of a flexible body portion comprised of slats or bars united by metallic flexible means, separate rigid end pieces, and means comprising spaced bolts and nuts carried by the end pieces for detachably securing the ends of the slats or bars to the end pieces, whereby the end pieces can bodily be detached from the slats or bars and the body portion folded or rolled upon itself.

1,689,069. CHICK BOX. WALTER H. CARVER and WILLIAM H. YUTZ, Trenton, N. J. Filed July 25, 1927. Serial No. 208,180. 6 Claims. (Cl. 229—6.)



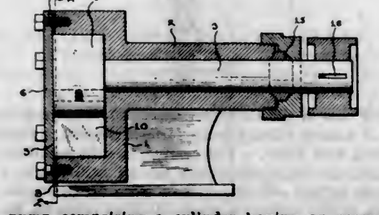
1. A chick box of hexagonal configuration having side, top, and bottom walls formed of a single piece of plane material, and comprising a single series of rectangular side walls, and two series of triangular flaps in unitary relation therewith, said flaps being constructed and arranged to overlap to form top and bottom walls; a column support arranged to prevent vertical collapsing of said box intermediate of its side walls, and rigidly connected with the top wall, and arranged to be rigidly connected with the top wall; and fastening means on one of said flaps adapted to be detachably engaged in closed position; whereby the flap provided with such fastening means may be open for inspection.

1,689,070. DETACHABLE SIGN. GEORGE A. ELLIOTT, New London, Iowa. Filed Nov. 15, 1927. Serial No. 233,477. 3 Claims. (Cl. 40—23.)
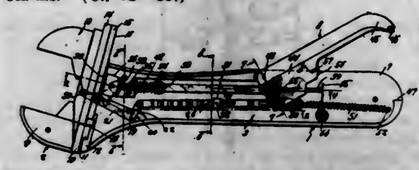


1. In a sign of the character described, a body portion for carrying the sign characters, a generally U-shaped jaw attached to the body portion, trunnions attached to the body portion, and a co-acting generally U-shaped jaw having sides bent to provide coiled springs mounted upon the trunnions, the ends of the sides being attached to the body portion.

1,689,071. PUMP. DUNCAN R. FALCONER, Camden, N. J. Filed Sept. 22, 1925. Serial No. 57,841. 1 Claim. (Cl. 103—136.)



A pump comprising a cylinder having an eccentrically disposed hub, a detachable head closing the cylinder on the opposite side from the hub, an overhung rotor of a width corresponding to the width of the cylinder and of a diameter materially less than the latter, the rotor having a shaft journaled in the hub and having a continuous diametrical slot opening on that face opposite the shaft, and vanes carried in the slot of the rotor and in edge contact with the inner peripheral surface of the cylinder, the vanes being provided with a spring interposed between them and yieldingly forcing them into engagement with the peripheral wall of the cylinder, the cylinder head serving as a lateral retaining means to retain the vanes in the slot of the rotor, the cylinder being provided with intake and discharge ports disposed respectively on opposite sides of the shortest radial line from the axial center of the hub to the periphery of the cylinder.

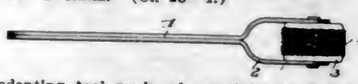
1,689,072. WRENCH. GUSTAVE GRIMSRUD, Antelope, Mont. Filed Mar. 10, 1927. Serial No. 174,374. 13 Claims. (Cl. 81—85.)



1. In a wrench structure of the character described including a handle body and a pair of jaw members asso-

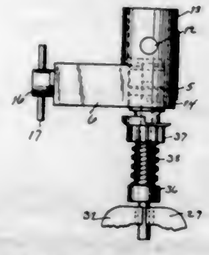
ciated therewith one movable relative to the other, a lever member pivotally associated with said handle and swingable inwardly upon gripping the same and a pair of shiftable elements loosely connected to and actuated by the lever, one thereof shifting the movable jaw to article engaging position and the other acting subsequent to the engaging of an article between the jaws to engage and lock the shiftable jaw in position.

1,689,073. INDENTING TOOL. WILLIAM F. HARVEY, Lima, N. Y.; Mary J. Harvey, executrix of said William F. Harvey, deceased. Filed May 3, 1926. Serial No. 106,383. 1 Claim. (Cl. 25—1.)



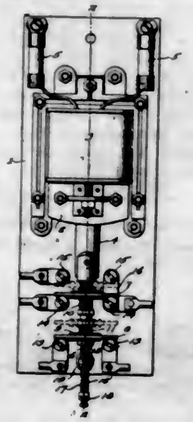
An indenting tool made of porcelain or like material with an irregularly roughened integral operative surface complemental to a surface composed of a multiplicity of sand-like particles.

1,689,074. TOOL FOR REPAIRING STARTER MECHANISMS. WALTER D. HUGHES, Santa Rosa, Calif. Filed July 13, 1927. Serial No. 205,457. 2 Claims. (Cl. 153—9.)



1. In a tool of the character described, a casting having a pair of axially aligned bores formed therein, a partition separating said bores, a rod carried in said partition and being centrally disposed within one of said bores, a pin positioned within said rod and in close proximity to said partition and a crimping wheel slidably mounted in said casting and adapted to have a portion of its periphery extending into one of said bores.

1,689,075. TRAFFIC-LIGHT CONTROL. OGDEN R. LEHMAN, Springfield, Ohio. Filed Jan. 28, 1927. Serial No. 164,253. 1 Claim. (Cl. 200—111.)



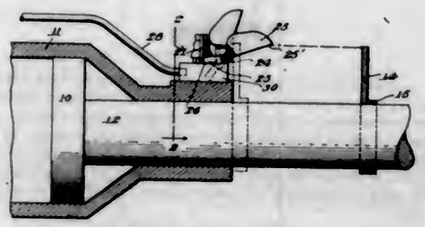
A circuit controller comprising a magnet, an armature therefor, an extension connected with the armature, a pair of disks movably mounted on the extension and insulated therefrom, springs for yieldingly holding the disks in position, two pairs of contacts adapted to be alternately engaged by one disk, one pair being arranged in an emergency circuit and the other pair in a regular circuit, a third pair of contacts adapted to be engaged by the second disks when the first disk is in engagement with the contacts of the regular circuit, said third pair of contacts being arranged in a regular circuit, means for energizing the magnet from a distant point to break the regular circuits and close the emergency circuit, a rod having its upper end connected with the extension, a bracket through which the rod passes, the lower end of the rod being screw threaded, a nut on the threaded part and a spring between the bracket and the nut.

1,689,076. BUMPER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Central Brass and Fixture Company, Springfield, Ohio, a Corporation of Ohio. Filed Mar. 5, 1928. Serial No. 259,061. 10 Claims. (Cl. 293—55.)



1. In a bumper, spaced bumper bars and a supporting bar having bifurcated ends attached to the end thereof.

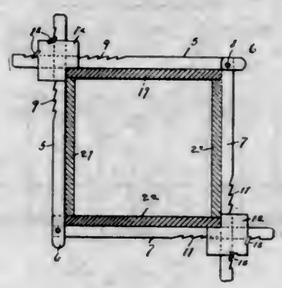
1,689,077. BRAKE-VALVE-BLEEDING DEVICE. JOSEPH MAHER, Stockton, Ill. Filed Sept. 20, 1926. Serial No. 136,577. 1 Claim. (Cl. 303—80.)



The combination with a bleed valve for an air brake cylinder, a piston within the cylinder, a rod connected with the piston, a stem for the valve, of a plurality of devices cooperating with the stem for opening the valve and constituting the arms of U-shaped valve operating means the middle portion of which engages the end of the valve stem, pivoted and weighted levers adapted to move respectively under said devices for retaininng them temporarily in position for opening the valve, and an element carried by the piston rod and adapted to engage either of the weighted levers for releasing them from the devices acting upon the valve.

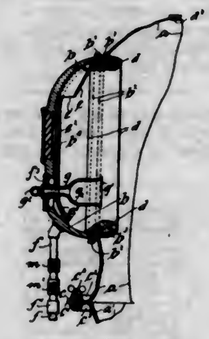
1,689,078. CLAMP. RUSSELL G. MERCER, San Francisco, and GEORGE W. MERCER, Covina, Calif. Filed Mar. 18, 1927. Serial No. 176,468. 1 Claim. (Cl. 144—291.)

In a clamp of the character described, a pair of arms pivoted to each other, a second pair of arms pivoted to each other, said arms having teeth formed thereon, the free ends of said arms of one pair overlying the free ends of the arms of the other pair, blocks slidably positioned upon said overlapping arms and means for locking said blocks to said arms, said means including a pair of



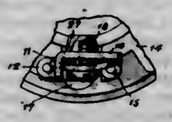
tapered wedge shaped members, each of said wedge shaped members engaging the teeth on one of said arms and its adjacent block.

1,689,079. DIVING DRESS. YASUKICHI MURAKAMI, Broome, Western Australia, Australia. Filed June 21, 1926, Serial No. 117,481, and in Australia May 3, 1926. 9 Claims. (Cl. 61—70.)



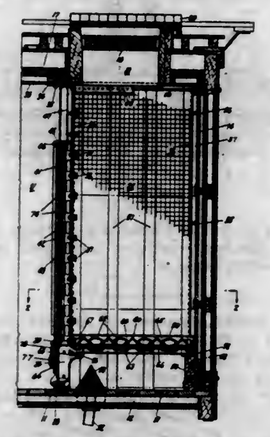
1. A helmet for a diver's suit, having a mask, a door removably carried by the mask, a mouthpiece carried by the door and in communication with the helmet, an escape valve in the helmet, and means for supplying fresh air to the mask, whereby the fresh air is inhaled through the nose of the wearer and exhaled through the mouth and mouthpiece to be exhausted into the helmet.

1,689,080. BINDING POST. ARVID H. NEBO, New Britain, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 14, 1921. Serial No. 437,134. 4 Claims. (Cl. 173—259.)



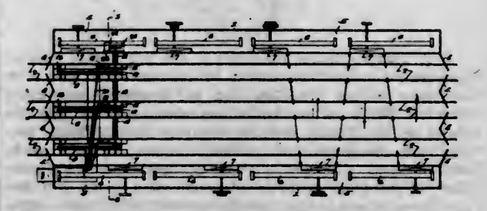
1. A binding post comprising a standard tapped to receive a binding screw and having an apertured side flange, an apertured independent clamping plate facing the standard and provided with a marginal lug freely engaged in the aperture in the side flange of the standard, together with a binding screw passing freely through the aperture in the clamping plate and engaging the tapped standard to press the clamping plate toward the standard.

1,689,081. REFRIGERATOR CAR. DAMIAN L. REYNOLDS, San Francisco, Calif., assignor of one-half to Luther L. Yates, San Francisco, Calif. Filed June 12, 1926. Serial No. 115,550. 16 Claims. (Cl. 62—19.)



1. In an ice compartment for a cargo vehicle, a series of bars forming an ice grate, spacers between the bars, said spacers having portions overlapping the bars for preventing them from moving away from the spacers, and means for urging the spacers and bars together, located entirely below the bars.

1,689,082. PROCESS OF DRYING CERAMIC WARE AND APPARATUS THEREFOR. THOMAS H. RHOADS, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 13, 1924. Serial No. 698,901. 2 Claims. (Cl. 34—46.)

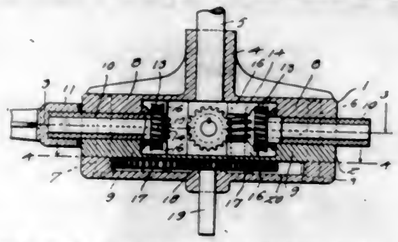


1. The process of drying ceramic and like ware comprising the moving of said ware continuously through a single elongated drying chamber, creating a plurality of independent currents of air at different places respectively along the drying chamber, heating the air currents to different temperatures gradually increasing from the inlet end to the discharge end of the drying chamber, circulating the respective heated currents of air transversely of the drying chamber, and causing the adjoining portions of adjacent air currents to blend with each other, whereby the temperature of the drying chamber will uniformly increase from the inlet end to the discharge end thereof.

1,689,083. ADJUSTING DEVICE FOR FAN BLADES. ELMER C. RINGEL, Alma, Kans. Filed Apr. 9, 1927. Serial No. 182,364. 1 Claim. (Cl. 170—163.)

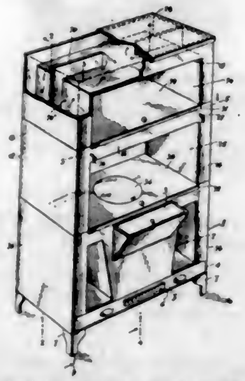
An adjustable device for fan blades, comprising a casing formed of a plurality of sections, two of said sections having mating recesses forming a chamber when the casing is assembled, fan blade supports journaled in said two sections, worm wheels secured to said supports, worm shafts journaled in said two sections and meshing with said worm wheels, the other sections of said casing having

a recess, the shafts aforesaid having one of their ends extended into said recess, pinions secured to the extended ends of said shafts, another shaft journaled in said



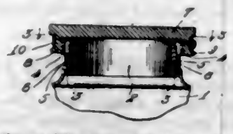
other casing section and manually operable, and a pinion secured to the last mentioned shaft and meshing with the first meshing pinions.

1,689,084. STOVE. ERASTUS W. ROGERS, Durham, N. C. Filed May 1, 1926, Serial No. 106,043. Renewed Mar. 20, 1928. 7 Claims. (Cl. 126—17.)



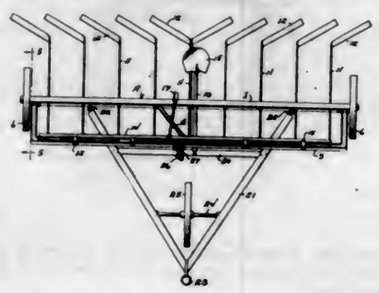
1. A heating device including a fire pot having lateral openings, a casing comprising superposable sections each including lateral branches and a transverse connecting member, the lower section fitting said openings and the upper section fitting suitable openings in said lower section, the transverse connecting member of said lower section being provided with a connection for a smoke pipe for drawing products of combustion from said fire pot through said casing thereby concentrating heat within the spaces bounded by said branches and transverse members, and means within said casing for directing the flow of products of combuation serially first through said upper transverse member and then through the transverse member of the lower section.

1,689,085. ICE-BAG CAP. CHARLES H. C. RUSSELL, Kansas City, Mo., and OSCAR F. MARCOTTE and LOUIS J. HUGUES, Topeka, Kans. Filed Mar. 23, 1927. Serial No. 178,384. 1 Claim. (Cl. 150—8.)



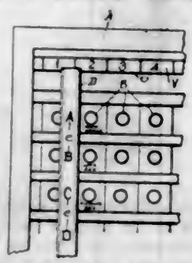
In combination with a container, a metal ring fitting in the mouth of the container, means for fastening the mouth of the container to the ring, the upper edge of the ring being bent over outwardly to form a flange which is spaced from the body of the ring and the walls of the mouth of the container, a cap having a depending flange of resilient material for engaging the flange of the ring, and a clamping ring engaging the cap for pressing it against the flange of the ring.

1,689,086. WEEDER. ORIEN R. SAUNDERS, Cove, Oreg. Filed Feb. 15, 1928. Serial No. 254,555. 2 Claims. (Cl. 97—144.1.)



1. An implement of the class described comprising a wheel supported frame, notches in the front and rear members of the frame, blades having their stems passing through the notches, the front end of each stem having a notch therein which is arranged in the front member of the frame, a sliding bar for engaging the notches for locking the stems in the front member, said bar having notches therein for registering with the notches in the stems to unlock the stems and manually operated means for moving said bar.

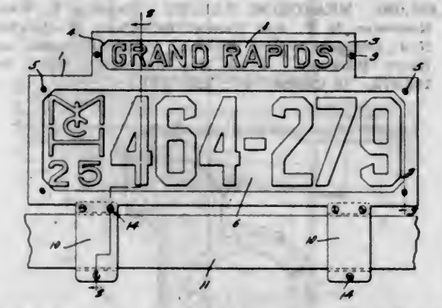
1,689,087. VOTING-MACHINE COUNTER READER. HIRAM B. SWARTZ, Wooster, Ohio. Filed Apr. 11, 1928 Serial No. 269,044. 2 Claims. (Cl. 235—51.)



1. In a voting machine, the combination with a plurality of voting keys arranged in parallel party rows and vertical office columns on one side of the machine, and counters set opposite said voting keys, respectively on the opposite side thereof, of means for identifying the several counters with their companion voting keys, respectively, to ascertain the votes indicated thereon, comprising a pair of number strips, each having identical indicia spaced apart thereon, the indicia on both being identical, but arranged in reverse order on one from the other—one strip secured in alignment with the horizontal rows of voting keys, and the other, with the horizontal rows of counters, and so that like indicia on both are directly opposite each other, and a pair of lettered strips, having identical indicia spaced apart thereon like the counters in vertical columns, and means for removably and slidingly suspending said lettered strips vertically opposite each other upon said number strips, respectively, at identical insignia thereon, substantially as set forth.

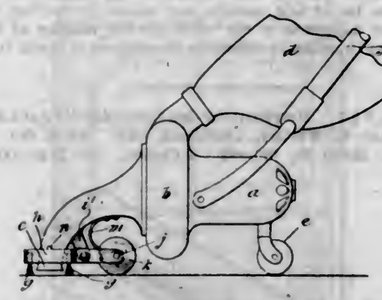
1,689,088. LICENSE HOLDER. GEORGE TAPELSKI, Grand Rapids, Mich. Filed May 18, 1925. Serial No. 31,181. 1 Claim. (Cl. 40—125.)

As a new article of manufacture, a holder for a license plate and a city name plate for automobiles, comprising a member stamped from a sheet of metal to include a main frame for the license plate and an auxiliary frame extending from the upper edge of the main frame for the city name plate, both of said frames having their corner edges inwardly flanged, means for removably securing the plates between the flanges of the frames, a



washer lying between the frame and plate, and flat depending ears on the main plate flush with the outer face thereof, and a U-shaped bracket adapted to be connected with said ears and designed for lapping engagement with a support and securing means for holding the U-shaped bracket to the ears.

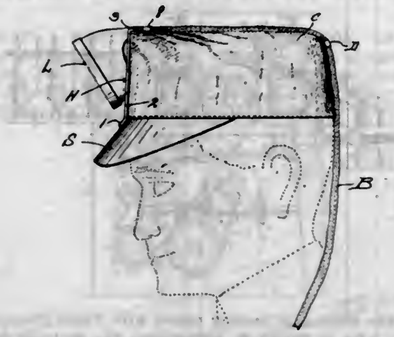
1,689,089. VACUUM CLEANER. ALFRED C. TEVES, Richmond Hill, N. Y. Filed July 3, 1923. Serial No. 649,192. 2 Claims. (Cl. 15—10.)



1. A vacuum cleaner embodying therein a casing, suction creating means therein, a nozzle communicating therewith and normally positioned above the surface to be cleaned, a handle attached to said casing, a roller support for said casing rearwardly of said handle, oscillatory frame means pivotally supported on said nozzle with the front portion thereof adjacent said nozzle, and the rear portion thereof adjacent said handle, a brush carried by the front portion of said frame means, rollers carried by the rear portion of said frame means, and a spring acting normally to raise the portion of said frame means carrying said brush and cause said rollers to support the cleaner adjacent said nozzle, whereby the bristles of said brush are normally held away from said surface, and increased pressure applied through said handle will impart movement to said oscillatory frame means to ensure a desired pressure engagement of the bristles of said brush with said surface.

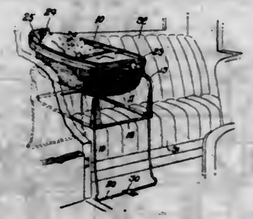
1,689,090. ELECTRIC-LAMP-HOLDING ATTACHMENT FOR MINERS' CAPS. CHARLES W. WATKINS, Kingston, Pa. Filed Sept. 28, 1926. Serial No. 138,252. 1 Claim. (Cl. 240—60.)

The combination with a lamp having on its upper portion a rearwardly directed stem; of a holder for the lamp comprising a substantially U-shaped plate having its end portions provided with angular disposed extremities, a resilient metallic strip attached at its end portions to said extremities and provided with an intermediate lower portion which is disposed between the end portions of the support, said lower portion receiving the stem of the



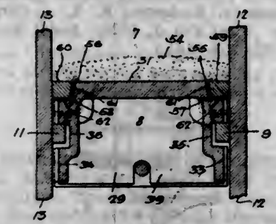
lamp, the end edges of the lower portion of the strip being twisted out of the plane in which the end portions of the strip lie, the lower portion of the lamp being received within the central opening provided by the substantially U-shaped member.

1,689,091. BASSINET. HOMER STUART WATT, Chicago, Ill., assignor to Gordon Motor Crib Company, Port Chester, N. Y., a Corporation of New York. Filed Dec. 15, 1926. Serial No. 154,943. 2 Claims. (Cl. 5—94.)



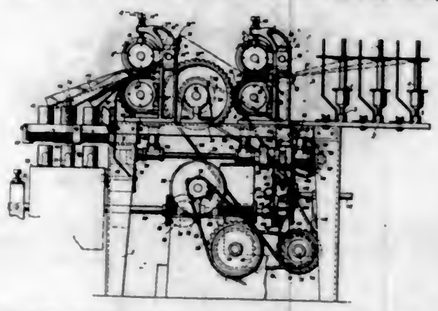
1. In a device of the class described, a rectangular frame and supporting legs therefor, angular vertically extending corner pieces mounted on the frame, generally S-shaped springs each connected at one end to one of the corner pieces and a bassinet supported on the other ends of the springs, the legs passing through the frame and means for adjustably clamping the upper ends of the legs within the corner pieces.

1,689,092. SIFTINGS PREVENTER FOR STOKERS. ANTHONY E. WEINGARTNER, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 21, 1924, Serial No. 687,534. Renewed June 22, 1928. 14 Claims. (Cl. 110—44.)



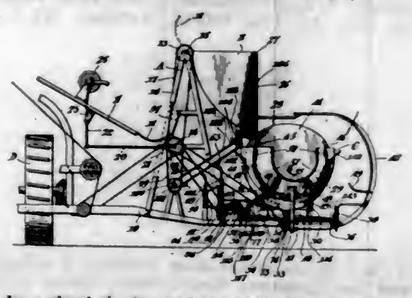
3. In combination, a pusher having a top surface and grooved side surfaces, and a sealing member in each side groove provided with locking lugs preventing longitudinal and vertical displacement beyond a predetermined extent.

1,689,093. METHOD OF AND APPARATUS FOR MAKING CURLED WIRE. JOSEPH A. WOLLE, Philadelphia, Pa., assignor to Union Bag and Paper Corporation, New York, N. Y., a Corporation of New Jersey. Filed Oct. 1, 1926. Serial No. 138,909. 15 Claims. (Cl. 29—4.5.)



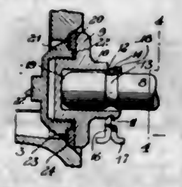
1. The method of making curled wire which comprises rolling wire to flatten it, maintaining the flattened wire while moving under tension, and causing the flattened wire while moving and under tension to pass over a curling edge which imparts to the wire an inherent tendency to curl.

1,689,094. SHEAF SHOCKER. ERNEST ALFRED WOOTTON, Maynooth, Ontario, Canada. Filed Sept. 20, 1926. Serial No. 136,703. 12 Claims. (Cl. 56—40.)



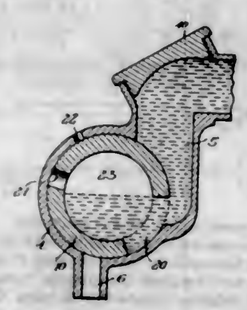
1. In a sheaf shocker and in combination, an elevator, a hopper timed from and thrown into gear by the elevator, a turnably mounted and slidably supported sheaf carrying basket timed from and thrown into gear by the hopper, and mechanism for causing the basket to assume a vertical position and to travel rearwardly, means for automatically causing the basket at a predetermined point in its rearward travel to discharge the shock, means for causing the basket to move forwardly, and means associated with the basket for supporting it in its travel to a vertical position.

1,689,095. VALVE STRUCTURE. CHARLES F. WRAY, Rochester, N. Y., assignor to National Brass Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 1, 1926. Serial No. 85,212. 7 Claims. (Cl. 251—151.)



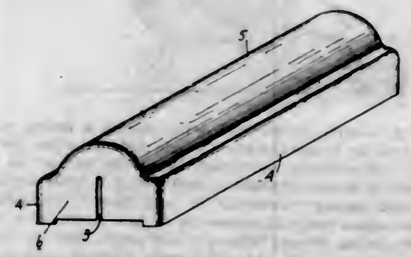
1. The combination with a valve stem, of a hollow disc member embracing the end of the valve stem and means for detachably holding the disc member on the valve stem comprising an annularly arranged yieldable spring retainer mounted on the disc member, the latter having an opening through which a portion of said spring retainer projects inwardly to engage a recess in the valve stem.

1,689,096. MEASURING FAUCET. CHARLES F. WRAY, Rochester, N. Y., and MANUEL BLICKMAN, Weehawken, N. J., assignors to Saul Blickman, Manuel Blickman, and Harry Blickman. Filed May 5, 1926. Serial No. 106,872. 15 Claims. (Cl. 221—107.)



1. The combination with a valve housing including inlet and outlet ports, of a hollow valve having a filling and discharging opening and movable to place said opening alternately in communication with said inlet and outlet ports, the valve when filling being arranged with the top of said opening below the top of the valve affording an air chamber above the top of said opening, and means for varying the extent of movement of the valve and the position of the top of said opening to determine the amount of liquid that enters.

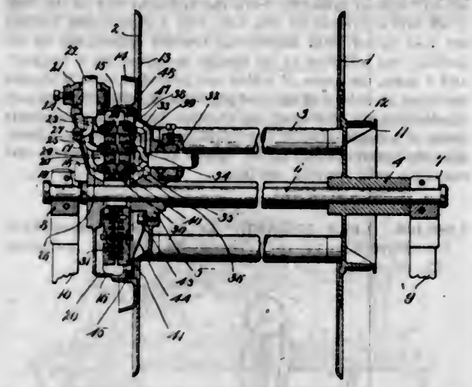
1,689,097. METHOD OF MAKING RECEPTACLES. THOMAS B. WRIGHT, Cincinnati, Ohio. Filed Oct. 2, 1922. Serial No. 591,992. 4 Claims. (Cl. 113—116.)



1. A method of making a receptacle, consisting in cutting a blank out of sheet metal, also cutting oppositely disposed notches in the edge portions of said blank, and drawing and ironing the blank to provide a semi-cylindrical body portion and a rectangular shaped edge portion having plane side and end walls.

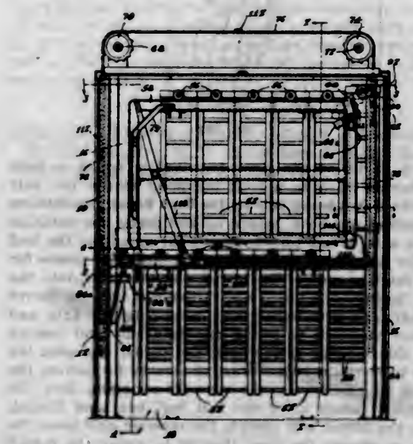
1,689,098. GROUNDING MECHANISM. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 24, 1924. Serial No. 701,596. 6 Claims. (Cl. 191—12.)

1. In a mining apparatus, a reel, a stationary member coaxial therewith, said reel and member having portions cooperating to form a housing whose opposite end walls are respectively provided by said member and by said reel and whose peripheral wall is in part provided by both said member and said reel, a plurality of pairs of cooperating contacts operative whether said reel is stationary or rotating to maintain electrical circuits and enclosed in said housing, and means rotating with said reel and engaging



said stationary member for maintaining electrical connection of low resistance between them.

1,689,099. DRIER. DANIEL H. APPLEGATE, Jr., Red Bank, N. J., assignor, by mesne assignments, to Proctor & Schwartz, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 15, 1926. Serial No. 141,794. 26 Claims. (Cl. 34—12.)



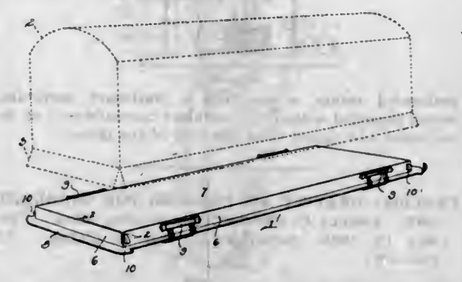
1. A drier comprising, in combination, a pair of drying chambers, one above the other; independent carriers for material to be dried; guides for horizontal movement of the carriers through the chambers; means, at the end of travel through one of said chambers, for shifting carriers therefrom to the other of said chambers, and means operable by the carrier shifting means for moving the carriers into contact with each other, whereby the carriers are propelled through the receiving chamber.

1,689,100. WEBBING SUPPORT FOR UPHOLSTERY. KEGHAM BALIKJIAN, Newark, N. J. Filed Dec. 3, 1926. Serial No. 152,420. 1 Claim. (Cl. 155—179.)



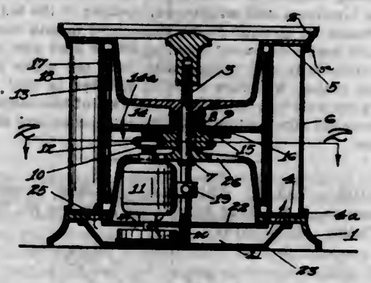
As an article of manufacture, a stirrup-like webbing support formed of a strip of sheet metal having a horizontal webbing-receiving broad member arched in cross section, and upright flat securing members the lower ends of which upright securing members present a twist, said twisted portions merging into the arched horizontal members.

1,689,101. FASTENING MECHANISM FOR GRAVE VAULTS. ALLEN F. BECK, Columbus, Ohio, assignor to The Clark Grave Vault Company, Columbus, Ohio, a Corporation of Ohio. Filed May 3, 1927. Serial No. 188,566. 3 Claims. (Cl. 292—175.)



1. In a grave vault, a casing, a bolt slidably mounted in said casing, a stem connected with said bolt and slidably projecting through said casing, a spring surrounding said stem and confined between said casing and said bolt to normally project the latter toward an operative position, and a frangible actuating portion formed with the outer end of said stem and arranged exteriorly of said casing.

1,689,102. ANIMATED PICTURE DISPLAY. JOHN T. BRECHLYN, Worcester, Mass., assignor, by mesne assignments, to Haptograph, Inc., a Corporation of Massachusetts. Filed Sept. 18, 1924. Serial No. 738,483. 15 Claims. (Cl. 88—16.)



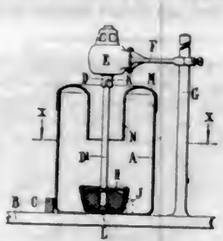
1. In an animated picture display device for presenting to direct view a series of pictures representing successive phases of an action, a flexible endless picture carrier, fluid pressure means acting on the inside of the carrier and means engaging the outside picture bearing surface of said carrier for confining it and determining its form.

2. In an improved picture display device, a flexible picture carrier and fluid pressure means acting directly on the flexible surface of said carrier for presenting the picture bearing surface of said carrier to direct view in a predetermined form.

1,689,103. APPARATUS FOR MIXING LIQUIDS WITH SOLID OR SEMISOLID SUBSTANCES OR WITH OTHER LIQUIDS. NIELS BENDIXEN, London, England, assignor to John Godfrey Yule Delmar Morgan, London, England. Filed Nov. 27, 1926, Serial No. 151,194, and in Great Britain May 25, 1926. 7 Claims. (Cl. 259—96.)

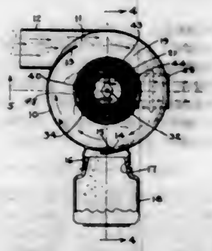
1. A mixing device for liquids and other substances said device comprising a liquid container, a vertical shaft rotatably mounted in said container, a perforated screen

in the form of a figure of revolution fixed on said shaft, a propeller mounted on said shaft in the interior of said screen to direct the substances to be mixed against the said



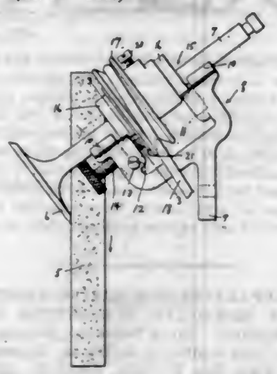
perforated rotary screen, and a stationary perforated screen arranged within the container concentrically of the container and spaced from the wall of the latter.

1,689,104. GRAVITY AIR CLEANER FOR CARBURETORS. ASHLEY C. BENNETT, Minneapolis, Minn. Filed May 18, 1925. Serial No. 31,064. 2 Claims. (Cl. 183—82.)



1. An air cleaner for carburetors comprising a cylindrical casing adapted to be mounted with its axis horizontal, means forming a dust-withdrawal opening at the bottom of said casing, an airtight receptacle secured to said casing below said dust-withdrawal opening, an air inlet pipe extending horizontally and tangentially from the upper portion of said casing, a hollow filtering member in said casing having its axis coinciding with the axis of the casing, and an air outlet pipe leading from the interior of said filtering member.

1,689,105. VALVE GRINDER. ROBERT BJORKLUND, Brooklyn, N. Y. Filed July 12, 1927. Serial No. 205,146. 1 Claim. (Cl. 51—131.)



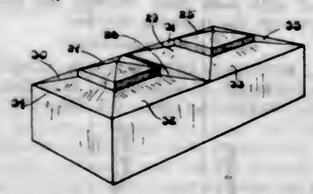
A valve grinder of the class described comprising a pulley including a tubular hub portion terminating in cylindrical end portions and having an internal V-shaped valve stem receiving pockets, said body also including an outstanding grooved flange formed on one side with a circular bearing surface spaced inwardly from the adjacent end of the hub, a set screw carried by the hub, and a supporting bracket for said pulley, said supporting bracket embodying an attaching lug adapted to be fixedly mounted on a support, and a yoke, the arms of which are provided with V-shaped seats for reception of the end portions of said hub, and outwardly spaced V-shaped valve stem bearings, said seats being of a depth greater than said bearings, and an adjustable abutment screw carried by one of the yoke arms and engaging said bearing surface.

1,689,106. LEAF TURNER. LOUIS BOYD, Connellsville, Pa. Filed Nov. 17, 1927. Serial No. 233,934. 2 Claims. (Cl. 40—104.)



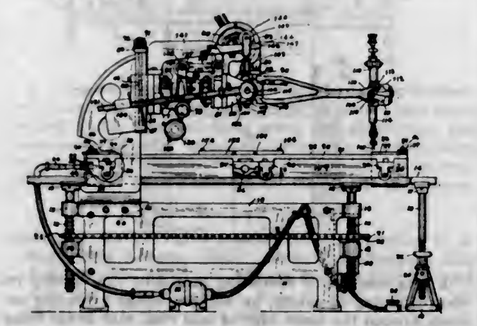
1. In a device of the class described, a frame, a book holder having an arm, a book including leaves, the butt ends of the leaves being held by the book holder, mechanism for mounting the book holder on the frame for rotation about an axis, a leaf turner, means for mounting the leaf turner for movement in an orbit about the book, means for moving the free ends of the leaves, one at a time, into the path of the turner, whereby the turner will turn the leaves backwardly and downwardly with respect to said axis, and a reverser mounted to swing on the frame and resting against the last leaf of the book, the turner engaging the reverser to carry the book toward the means for moving the free ends of the leaves, the reverser swinging into the path of the turner after the last leaf has been turned, whereby the turner will operate the reverser and cause the reverser to engage the arm, thereby to swing the holder and the butt ends of the leaves around said axis and to restore the book to its original position.

1,689,107. BUILDING BLOCK OR BRICK. FRANK L. BRADLEY, Cincinnati, Ohio. Filed Nov. 5, 1926. Serial No. 146,527. 1 Claim. (Cl. 72—38.)



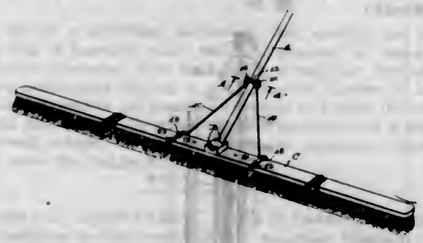
A building block or brick comprising a substantially rectangular formation as to all but two faces, the opposite faces which constitute said exception being respectively anaglyptic and diaglyptic and duplicates of each other, the shape of said anaglyptic face consisting of two elevations spaced apart and from the edges of the face by surfaces inclined away from the elevations, the shape of the diaglyptic face being formed to fit the anaglyptic face.

1,689,108. WOOD-CARVING MACHINE. ALFRED V. BREED, Jamestown, N. Y., assignor to Curtis Machine Corporation, Jamestown, N. Y., a Corporation of New York. Filed Mar. 29, 1926. Serial No. 98,065. 7 Claims. (Cl. 90—13.3.)



1. In a wood carving machine, a standard, uprights fixed to said standard, a cross beam supported by said uprights, operating mechanism, vertical hinges connecting said beam to said mechanism, a rectangular frame pivotally mounted in said standard and centers in said frame between which are carried the template and stock on which said mechanism operates.

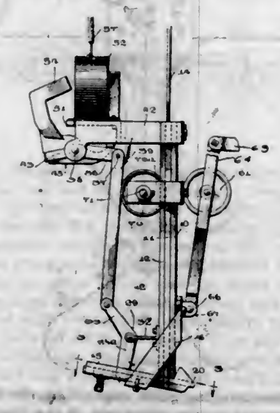
1,689,109. BROOM-HANDLE BRACE. RICHARD REES BROCK, Brooklyn, N. Y. Filed July 8, 1926. Serial No. 121,218. 3 Claims. (Cl. 306—6.)



1. Means for connecting and bracing push broom handles, comprising a pair of braces having offset portions terminating in right angular ends, means for detachably securing the braces to the handle, and a pair of hooked elements adapted to be secured to the brush head to extend in spaced relation to the side of the head, the offset portions of the braces being adapted to be engaged by the hooked elements and their angular ends to overlie the top of the brush head.

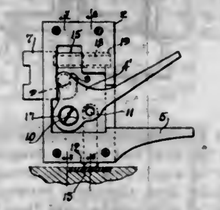
1,689,110. CUTTING DEVICE. WALTER W. BRUST, Weston, W. Va. Filed Jan. 18, 1927. Serial No. 161,902. 4 Claims. (Cl. 164—49.)

1. In a device of the character described comprising a frame, a knife slidably mounted in the frame, a track for guiding a strip of sealing paper through the frame and transversely of the knife, means for reciprocating the knife comprising a solenoid, an armature adapted to be oscillated by the solenoid, a shaft operatively connected with and adapted to be rocked by the solenoid, a bell crank lever having connections with the knife, means connecting the bell crank lever with the shaft whereby rocking of the shaft will cause oscillation of the bell crank lever and reciprocation of the knife, a roller located adjacent the strip of paper and adapted to be revolved continuously, an idle roller carried by the frame and adapted to be moved for



forcing paper in engagement with the revolving roller for periodically forcing the strip of paper through the frame, and means for periodically moving the idle roller into engagement with the paper.

1,689,111. SASH LIFTER AND LATCH. BENJAMIN F. BURT, Dayton, Ohio, assignor to The Dayton Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed June 9, 1927. Serial No. 197,550. 8 Claims. (Cl. 292—40.)

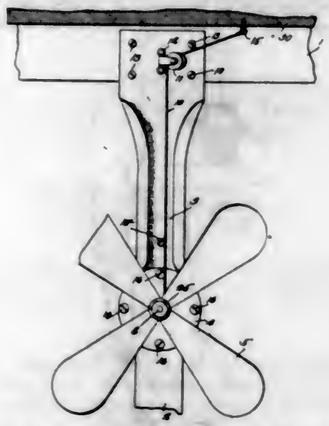


1. The combination with a window frame and a sliding sash therein of a housing mounted upon the sash, a lever extending into the housing, the said lever being fulcrumed adjacent one extremity thereof, the arm of the lever being eccentrically formed, a retractable latching member associated with the lever and in operative relationship therewith, a second member pivoted to the said lever and normally abutting on the window frame, and a bearing carried by the lever arm for the end of the said second member and adjacent the pivot point thereof, whereby upon operation of the lever the said latching member will be retracted and the pivoted member simultaneously actuated against the window frame to force the said sash away from its seat.

1,689,112. FLY SHOO. ART CAIN, Indianola, Nebr. Filed Nov. 8, 1927. Serial No. 231,825. 2 Claims. (Cl. 230—244.)

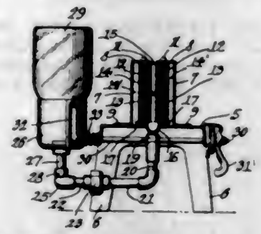
1. In a device of the class described, a substantially vertical bracket, means for securing the upper end of the bracket to a door, a shaft journaled on the lower end of the bracket, a fan on the outer end of the shaft, a housing mounted on the lower end of the bracket, the shaft passing through the housing, a torsion spring in the housing, means for securing the inner end of the spring to the shaft, means for anchoring the outer end of the spring, a flexible element wound about the shaft and secured at one end to

the shaft and located between the fan and the housing, means for holding the opposite end of the flexible element,



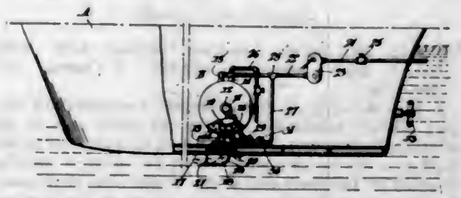
and a direction-changing guide engaged by the flexible element and mounted on the upper end of the bracket.

1,689,113. OIL BURNER. ARBA IRA CARNINE, North Madison, Ind. Filed Oct. 20, 1927. Serial No. 227,581. 2 Claims. (Cl. 158—91.)



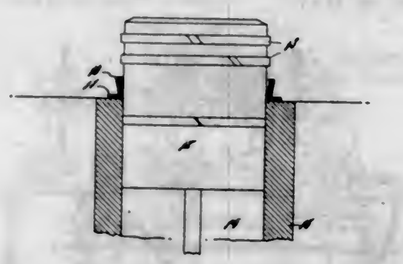
1. A liquid fuel burner including a base, a fuel trough supported on the base and having flanges, said fuel trough having a slot to admit fuel to the trough, a burner block including spaced tiers, the space between the tiers constituting a vertical passageway, said tiers being mounted on the flanges, each tier embodying a plurality of superposed bars, each bar having a groove formed longitudinally thereof providing parallel flanges having notches formed therein, said notches constituting passageways communicating with the vertical passageway, and a casing forming a part of the burner block and spaced from the bars providing lateral passageways communicating with the vertical passageway through the notches.

1,689,114. AUXILIARY POWER MEANS FOR SHIPS AND THE LIKE. JOHN ALBERT CHOQUETTE, Ottawa, Ontario, Canada. Filed Mar. 3, 1925. Serial No. 12,929. 3 Claims. (Cl. 115—0.5.)



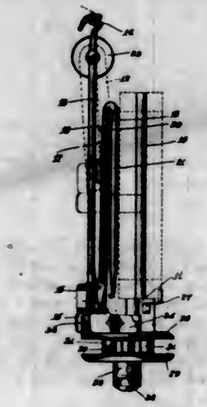
1. Hydraulic power mechanism for boats comprising a turbine having discharge ports and intake ports, a water intake for the boat communicating with a turbine intake port, means operatively connecting the intake ports, pressure generating means operatively connected to the discharge ports whereby on the turbine being operated the pressure generating means are simultaneously operated to create a vacuum in the turbine.

1,689,115. RING COMPRESSOR. BERTIE M. COLEMAN, Worton, Md. Filed June 6, 1925. Serial No. 35,323. 1 Claim. (Cl. 29—86.4.)



A ring compressor consisting in a split ring having its wall diverging upwardly, an annular flange extending entirely around the lower edge of said ring, said flange being designed to overlie the end of a cylinder and form a broad bearing support for the ring, and a means for adjusting the ring, said means including strips connected to the respective ends of the ring and a bolt adjustably connecting the strips, one of said strips bridging the open juncture of the ring at all times to form a guiding means in the adjustment of the ring.

1,689,116. CARRIER FOR TUBULAR BRAIDING MACHINES. WILLIAM E. COOK, New York, N. Y. Filed Jan. 11, 1926. Serial No. 80,400. 14 Claims. (Cl. 96—13.)



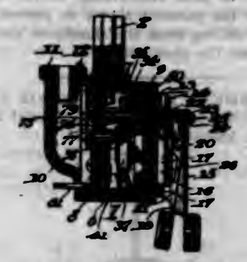
1. A carrier for tubular braiding machines embodying therein an upper plate adapted to bear upon the top plate of a braiding machine, a spindle for a bobbin or cop carried by said plate, a stem having an eye formed therein carried by said plate and parallel with said spindle, a tensioning traveler slidably mounted in relation to said stem and having an eye formed thereon for the thread, means constantly acting upon said traveler to impart a movement thereto away from the eye of said stem, a looped guide for the thread carried by said plate parallel with and intermediate said spindle and said stem, and a tensioning device adapted to engage the thread interpediate said guide and said traveler.

1,689,117. SIGN. EMIL H. DIEBOLD, Newark, N. J. Filed Aug. 5, 1927. Serial No. 210,948. 2 Claims. (Cl. 40—140.)



1. A sign of the character described comprising a frame, strips forming the marginal outline of letters and being secured to the frame at their lower and upper ends, and foraminous material arranged across the space between the margins of said letters whereby the scenery in the rear of the sign can be seen through the margins of said letters.

1,689,118. SWITCHING MECHANISM. CHARLES F. A. EDDY, New London, Conn. Original applications filed July 20, 1923, Serial Nos. 652,809 and 652,810. Divided and this application filed Mar. 6, 1926. Serial No. 92,931. 18 Claims. (Cl. 200—6.)



15. In a switching mechanism, the combination of a casing, a movable shaft mounted therein, an operating handle connected with said shaft, a stop-bar carried by the casing and having a notch formed therein, a lock-latch pivoted to the handle in position to engage the notch and hold the handle in an adjusted position, and a spring housed within the movable shaft for resiliently tending to move the lock-latch into the notch.

1,689,119. CORD FABRIC. RHYS D. EVANS, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 18, 1925. Serial No. 15,233. 9 Claims. (Cl. 139—426.)



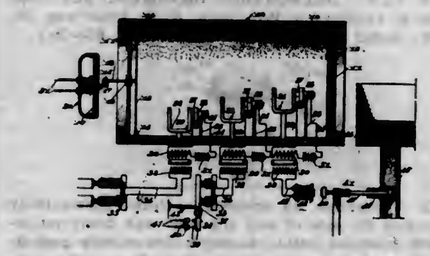
4. A cord fabric comprising a plurality of cords each cord having a cable twist, a strand twist and a yarn twist, the cable and strand twists being in the same direction.

1,689,120. CHAIN TIGHTENER AND FASTENER. ISAAC J. D. FAIRHURST, Manchester, Iowa. Filed Nov. 17, 1927. Serial No. 233,995. 1 Claim. (Cl. 24—68.)



A chain tightener and fastener comprising an elongated bar having one end directed laterally, then tapered and bent into the form of an eye for pivotally connecting said end with one end of a chain, said laterally directed portion being of greater transverse dimensions than other parts of the device whereby said portion is adapted to resist wear and strain, the other end of said bar being directed laterally in the same direction as said one end and then directed laterally at right angles, then upwardly to form a tapered hook bill, parallel with and spaced from said laterally directed adjacent end, the right angular connecting portion between said end and bill being flat, and a small hook on the bar between its ends and facing toward its pivotal end, whereby a link of the chain may be passed over the bill carrying end of the bar and engaged with said small hook, whereupon a lever action may be effected by swinging the bar away from the link, causing tightening of the chain, said hook bill being engageable with a link of the chain, the flat right angular connecting portion of the hook bill fitting closely between the sides of the chain link, whereby accidental disengagement of the hook bill from the link is prevented.

1,689,121. ELECTRIC CONTROL APPARATUS. WILLIAM S. FERDON, Omaha, Nebr. Filed June 13, 1923. Serial No. 645,157. 3 Claims. (Cl. 177—353.)

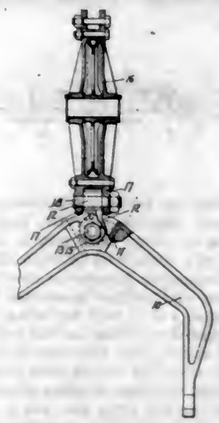


1. In an apparatus of the character described, a vibration and sound excluding container, a diaphragm within the container, means for hingedly connecting the diaphragm to the walls of the container, means whereby the diaphragm may be set into vibration for producing sound waves of different pitch values, a plurality of tuning forks within the container, each adapted to respond to sound waves of a different pitch, and means whereby different electrical circuits may be established with the vibration of said forks.

1,689,122. BAIL FOR EXCAVATING DIPPERS AND THE LIKE. BERLIN S. FERGUSON, Marion, Ohio, assignor to The Marion Steam Shovel Company, Marion, Ohio, a Corporation of Ohio. Filed July 22, 1926. Serial No. 124,174. 9 Claims. (Cl. 214—145.)

1. In a device of the character described, a bail having a socket formed in the transverse portion thereof and

opening through the upper edge of the same, and a connecting member pivotally mounted in said socket and ex-



tending above the same for connection with a supporting member.

1,689,123. METHOD OF CONSTRUCTING WEARING SURFACES OF ROADS AND THE LIKE. SAM EVERETT FINLEY, Atlanta, Ga. Filed July 28, 1926. Serial No. 125,594. 4 Claims. (Cl. 94—23.)

1. The method of constructing and applying wearing surfaces to road structures which comprises covering the structure with bitumen of suitable consistency, adding to the bitumen coating mineral aggregate, and kneading and thoroughly admixing the bitumen and aggregate to mature the composite surface coating and unite the same with the original road structure.

1,689,124. DETACHABLE ORNAMENT SETTING. JOHN E. FITZGERALD, Providence, R. I. Filed Aug. 26, 1926. Serial No. 131,647. 5 Claims. (Cl. 63—29.)



1. In combination, an ornament, a frame substantially surrounding the side of said ornament and firmly retaining said ornament within having a downwardly projecting resilient wall having a groove extending continuously around the outer side thereof spaced from the end thereof and terminating in an inwardly projecting continuous lip below said groove and an article of jewelry having a socket therein having an upwardly and inwardly projecting wall substantially terminating in an inwardly projecting continuous resilient lip slightly larger circumferentially than the lower end of the inwardly projecting frame lip and smaller circumferentially than the wall of said frame, whereby when said frame is pressed within said socket to expand said resilient walls, said inwardly projecting resilient socket lip may engage within said frame groove to secure said frame and contained ornament within said socket.

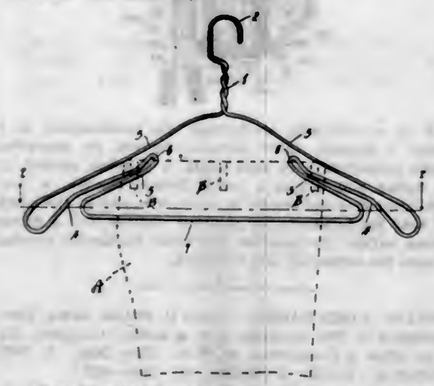
1,689,125. WOMAN'S GARMENT. JULIA FOERCH, Wilkes-Barre, Pa. Filed June 19, 1924. Serial No. 721,087. 2 Claims. (Cl. 2—112.)

1. A loosely fitting garment of the character described provided with shoulder straps, reinforcing back strips secured to the shoulder straps adjacent the inner edge thereof and adjacent the juncture of the strap and the top of the garment, front reinforcing strips secured to the body of the garment adjacent the inner edge of the shoulder straps and substantially in line with said inner edge, all of the strips extending entirely to the bottom



of the garment, and stocking attaching devices secured to the lower ends of said reinforcing strips, whereby the strain put upon the garment serves to prevent the shoulder straps from falling from the shoulders, and to support the garment from the shoulders.

1,689,126. GARMENT HANGER. CONRAD P. GASS, Tacoma, Wash. Filed Oct. 21, 1926. Serial No. 143,172. 1 Claim. (Cl. 223—62).



A garment hanger formed of a single strand of wire and provided with a cross bar intermediate of its ends, the wire at each end of the cross bar having inwardly and upwardly reentrant portions rebent to form inwardly directed and upwardly inclined hooks for engagement with trousers loops, the wire at the ends of said hooks rebent to form coat supporting portions, and the ends of the wire joined and formed with a suspending hook.

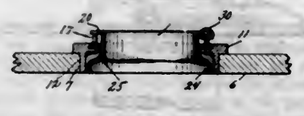
1,689,127. SUPPORT FOR RING TRAVELERS. GEORGE H. GILLIGAN, Providence, R. I., assignor to U. S. Ring Traveler Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 16, 1928. Serial No. 247,012. 3 Claims. (Cl. 118—59.)



1. In a spinning or twisting machine, a ring for supporting a traveler, a holder plate upon which the ring

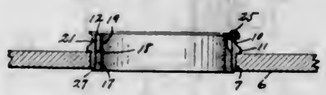
is mounted, and an imperforate ring shield comprising a base plate arranged beneath the holder plate and on which the holder plate rests, said shield having a cylindrical wall extending from the base of the ring to substantially the horizontal plane of the top of the traveler ring encircled by the ring and spaced therefrom to form an annular recess for a traveler.

1,689,128. SUPPORT FOR RING TRAVELERS. GEORGE H. GILLIGAN, Providence, R. I., assignor to U. S. Ring Traveler Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 16, 1928. Serial No. 247,014. 2 Claims. (Cl. 118—59.)



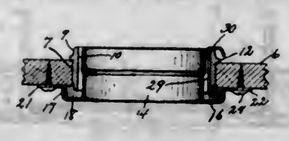
1. In a support for ring travelers, an annular ring holder provided with a vertical split and with an internal channel in its upper face, a traveler ring seated in the channel and an imperforate tubular shield embraced by the holder and frictionally held therein and extending from the lower edge of the ring to approximately the horizontal plane of the ring top and spaced from the ring to form a raceway for a traveler.

1,689,129. SUPPORT FOR RING TRAVELERS. GEORGE H. GILLIGAN, Providence, R. I., assignor to U. S. Ring Traveler Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 16, 1928. Serial No. 247,015. 2 Claims. (Cl. 118—59.)



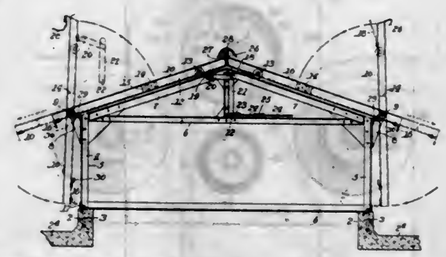
1. In a support for a ring traveler, a cylindrical traveler ring, a horizontal annular head upon the top of the ring, and an imperforate tubular shield extending from the bottom of the ring to substantially the top portion thereof, said shield comprising a broad lower portion frictionally engaging the interior face of the ring, and a retracted upper portion spaced from the ring.

1,689,130. SUPPORT FOR RING TRAVELERS. GEORGE H. GILLIGAN, Providence, R. I., assignor to U. S. Ring Traveler Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 16, 1928. Serial No. 247,016. 5 Claims. (Cl. 118—59.)



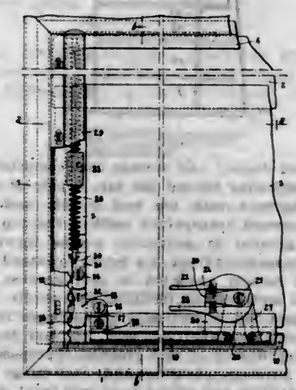
1. In a spinning or twisting machine, a ring rail provided with a spindle orifice, a vertical traveler ring fixed in the rail in the orifice and projecting above the rail, and an imperforate tubular shield member concentrically disposed within the ring extending from the bottom to substantially the top of the ring and spaced therefrom and supported from the bottom of the rail.

1,689,131. ROOF STRUCTURE. JOHN H. GOODWIN, Greensburg, Pa., assignor to W. F. Overly & Son, Greensburg, Pa., a Corporation. Filed July 22, 1927. Serial No. 207,727. 17 Claims. (Cl. 108—16.)



1. A roof structure, comprising a plurality of relatively movable roof members meeting in a common joint, and a pivotally mounted ridge member on one of the roof members for sealing the joint.

1,689,132. WINDOW FOR DOORS OF MOTOR CARS AND THE LIKE. GEORGES HAARNAGELL, Courbevoie, France. Filed Feb. 26, 1926, Seral No. 90,936, and in France Mar. 21, 1925. 2 Claims. (Cl. 296—48.)

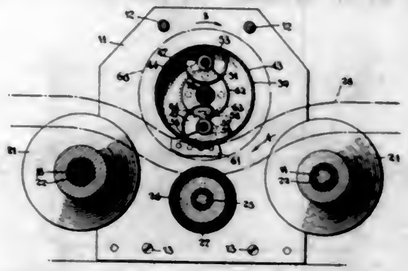


1. In a window of the class described, a frame, vertical rack bars at opposite sides of the frame, a glass movable vertically in the frame, catches mounted on the glass for engagement with the racks, a pair of gripper levers mounted on the glass for manual manipulation and each connected to one of the catches and a spring active on said gripper levers to normally keep the catches in engaged position, each catch being pivotally mounted and provided with a lug having a gripping collar, each lever having an arm and each lever arm being connected to one of the gripping collars by a rod which extends through and is adjustable in said collar.

1,689,133. METHOD OF AND MACHINE FOR PERFORATING LAMINATED FABRICS. JORGEN I. HAASE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 7, 1926. Serial No. 127,754. 15 Claims. (Cl. 154—1.)

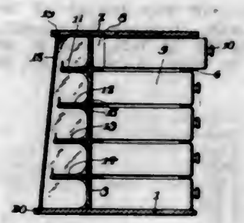
15. A machine for liberating air from between the sheets of a laminated material comprising rollers adapted pro-

gressively to compress the material, a needle associated and movable with respect to both rollers, and means to



thrust the needle into and retract it from the material while the latter is under compression between the rollers.

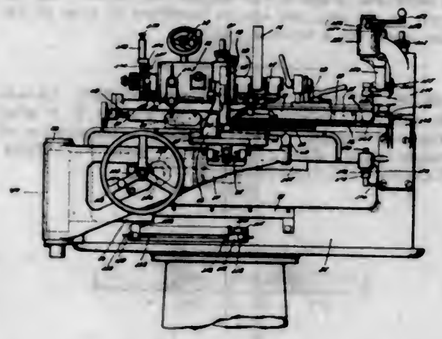
1,689,134. DISPLAY CASE. OMER A. HANSEN, Green Bay, Wis. Filed Oct. 19, 1927. Serial No. 227,248. 1 Claim. (Cl. 312—119.)



A combined display and storage case comprising a top, a bottom projecting beyond the top, a pair of end walls positioned between said top and bottom and each including a forward transparent section, the top and bottom being grooved in proximity to the forward edges thereof, a transparent front of a length to extend from said top to said bottom, mounted in said grooves, abutting against said sections and inclining rearwardly from said bottom to said top, a vertically disposed partition interposed between and abutting said top and bottom and positioned rearwardly of said grooves, superposed, spaced supporting members abutting and projecting forwardly from said partition and spaced from said front, superposed sets of article receptacles arranged rearwardly of said partition between said top and bottom, the sets corresponding in number to the number of said supporting members, and sets of spaced, opposed pairs of superposed divisional members projecting forwardly from said partition, the divisional members of each pair arranged against the upper and lower faces of a supporting member at the rear thereof, each pair of divisional members positioned in alignment with a side of a receptacle, the distance between certain of the opposed pairs being greater than that between the other of the opposed pairs.

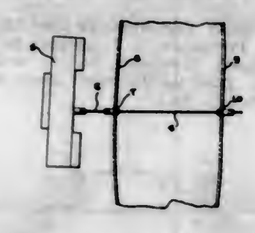
1,689,135. METAL-WORKING MACHINE. BENGT M. W. HANSON, Hartford, Conn.; Elnar A. Hanson executor of said Bengt M. W. Hanson, deceased. Filed Mar. 11, 1922. Serial No. 543,109. 32 Claims. (Cl. 51—225.)

1. In a machine of the character described, cutter holding means and a grinding wheel having a transverse convex cutting edge, said means and wheel being mounted for movement longitudinally and laterally one relative to the other during the grinding operation, means for guiding said holding means and grinding wheel one relative to the other in a predetermined path corresponding to the contour to be given to the teeth of the cutter,



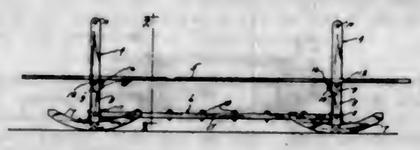
and means for supporting said grinding wheel for angular movement about the center of curvature of the cutting edge thereof.

1,689,136. RADIO ATTACHMENT FOR STRING INSTRUMENTS. GEORGE T. HASTINGS, New York, N. Y. Filed Sept. 13, 1927. Serial No. 219,296. 2 Claims. (Cl. 179—109.)



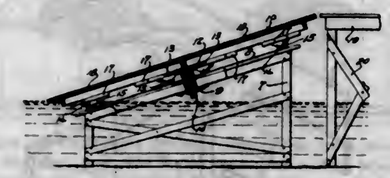
1. In combination a musical stringed instrument having a finger board, a radio electric unit, a member mounted upon the finger board for supporting in attached relationship thereto the radio unit, the member comprising a wooden block fastened to the finger board, a driving pin in the radio electric unit arranged to pass through the stringed instrument.

1,689,137. BOB ROCKER. MERRILL J. HIRE, Minneapolis, Minn., assignor to Playground & Gymnasium Equipment Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 9, 1927. Serial No. 182,513. 3 Claims. (Cl. 155—57.)



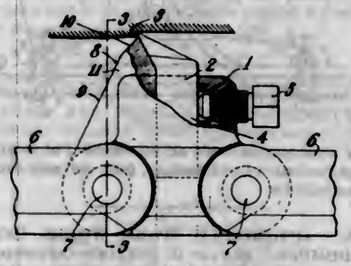
3. A bob rocker comprising rocker-equipped end members, said end members including pairs of upright posts and crossbie rods connecting the posts of each pair and affording handles, a seat board pivotally supported from the posts with its ends extending outwardly to form seat portions, and a foot rack pivotally supported from the posts below the seat board.

1,689,138. BATHERS' INCLINED ROTARY WATER PLATFORM. MERRILL J. HIRE, Minneapolis, Minn., assignor to Playground & Gymnasium Equipment Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 15, 1927. Serial No. 226,493. 2 Claims. (Cl. 275—51.)



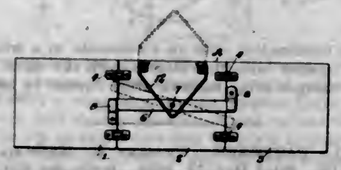
1. A bathers' amusement device comprising a suitable support and on said support a rotary disk-like platform set in an oblique plane for rotation on an oblique axis, said platform being free for rotation in either direction, the direction of rotation depending on the preponderance of weight on the one side or the other thereof, said platform being arranged to be set with its lower portion approximately at the water level and being free from adjacent obstructions for the discharge of bathers from the lower portion of said platform and into the water, said platform being substantially flat and free from obstructions.

1,689,139. CUTTER CHAIN. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 1, 1924. Serial No. 747,816. 11 Claims. (Cl. 262—33.)



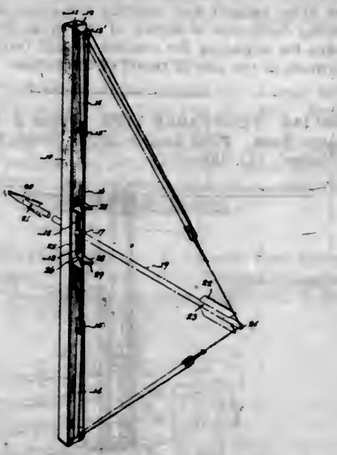
1. The combination with a cutter chain and a cutter bit having lateral cutting edges, of means carried by the cutter chain and projecting between said cutting edges for guarding a substantial portion of the cutting surface of the bit, said means having a guard surface inclined rearwardly from said chain to its outer extremity.

1,689,140. FOLDING LICENSE PLATE. HERMAN JASCHUN, Brooklyn, N. Y., assignor of one-half to Robert Winston, New York, N. Y. Filed Sept. 13, 1927. Serial No. 219,294. 3 Claims. (Cl. 40—125.)



1. A folding license plate, comprising a plurality of sections, link hinges connecting the sections and located in recesses of adjacent sections, and means on the intermediate section for engagement with the end sections to hold the sections in alinement.

1,689,141. BOW AND ARROW. HENRY B. KELLER, Philadelphia, Pa. Filed Aug. 4, 1927. Serial No. 210,586. 3 Claims. (Cl. 124—7.)



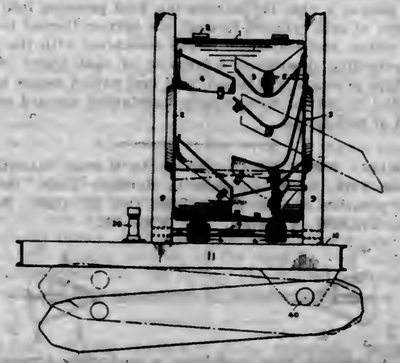
1. A bow including a rigid bow shaft and an elastic string, the bow shaft having an opening and communicating slots therein through which an arrow shaft and feather are adapted to pass, the slots having tapered walls for the purpose described, and notched ears projecting inwardly from the bow shaft constituting hand guards and bow string guides.

1,689,142. FOUNTAIN PEN. HEINRICH KÖHLER, Hamburg, Germany. Filed May 6, 1927, Serial No. 189,353, and in Germany Oct. 21, 1926. 2 Claims. (Cl. 120—48.)



1. A fountain pen having an ink feed formed with a conical terminal to engage the pen barrel, an ink feeding channel in the ink feed, a pen removably carried by the ink feed, and means for adjustably tensioning the pen to control the flow of ink through the channel.

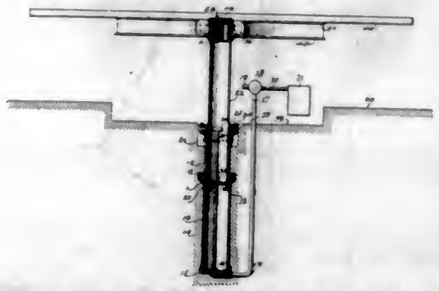
1,689,143. CARRIAGE FOR CONCRETE MIXERS AND DISTRIBUTORS. JOSEPH C. LUKACHOVIC, Chicago, and HARRY C. PETERS, Oak Park, Ill. Filed Apr. 13, 1926. Serial No. 101,635. 8 Claims. (Cl. 83—73.)



1. In a device of the character described, the combination of a mixer comprising a rotary drum having blades therein mounted to rotate therewith and to move concrete aggregates toward and from its ends, and in other directions

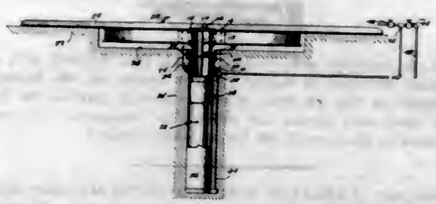
and to mix them, said drum having a charging opening in one end and a discharge opening in the other, a support on which said drum is fixed, traction means mounted on said drum support and carrying the same, and means for varying the degree of mixing of said drum including tilting means for adjusting the relation of said traction means to the drum in the line of travel of the former.

1,689,144. TURNTABLE LIFT. PETER J. LUNATI, Memphis, Tenn. Filed June 9, 1925. Serial No. 36,019. 7 Claims. (Cl. 138—9.)



1. A hydraulic lift comprising a cylinder, a reciprocating piston arranged therein, means for supplying fluid pressure to the interior of said cylinder to lift and hold said piston, a liquid container carried by the piston and communicating at its upper end with the interior of said cylinder so as to receive the lifting and holding fluid pressure, and a discharge pipe having its lower end arranged near the bottom of said container.

1,689,145. TURNTABLE LIFT. PETER J. LUNATI, Memphis, Tenn. Filed Feb. 6, 1926. Serial No. 86,569. 22 Claims. (Cl. 138—9.)



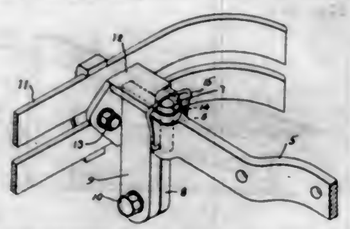
1. Apparatus of the character described comprising a cylinder, a piston mounted to reciprocate vertically therein, vehicle supporting means mounted on the upper end of said piston, a pipe for introducing fluid pressure into the interior of said cylinder through the bottom thereof to lift said piston, and automatic means associated with the pipe for retarding downward movement of said piston when the fluid pressure is released, said last named means being adapted to permit substantially unretarded upward movement of said piston.

1,689,146. NEON TUBE. RAYMOND ROBERT MACHLETT, New York, N. Y., assignor to Rainbow Light, Inc., a Corporation of New York. Filed Oct. 20, 1926. Serial No. 142,839. 4 Claims. (Cl. 176—122.)



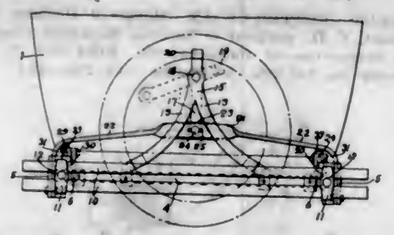
1. A luminous tube containing a conducting atmosphere of a monatomic inert gas, electrodes therein having an area less than one square decimeter per ampere and a deposited mirror of an electro-positive metal on the walls of the tube adjacent to the cathode, as set forth.

1,689,147. AUTOMOBILE BUMPER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Central Brass & Fixture Company, Springfield, Ohio, a Corporation of Ohio. Filed Dec. 27, 1927. Serial No. 242,842. 6 Claims. (Cl. 293—55.)



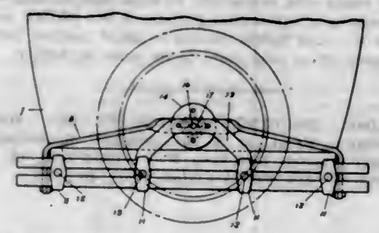
1. The combination with an automobile bumper proper, of attaching means by which such bumper may be mounted on the machine, the attaching means including a pin adapted to permit the bumper to be adjusted alternately in a normal position and an abnormal position and spring means for holding the pin in position.

1,689,148. AUTOMOBILE BUMPER AND TIRE CARRIER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Central Brass & Fixture Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 23, 1928. Serial No. 248,688. 10 Claims. (Cl. 293—55.)



1. The combination with an automobile, of a pivotally connected tire carrier and bumper, both movably connected to the automobile.

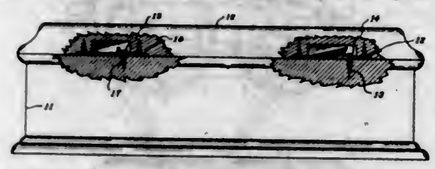
1,689,149. AUTOMOBILE SPARE-WHEEL CARRIER AND BUMPER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Central Brass & Fixture Company, Springfield, Ohio, a Corporation of Ohio. Filed Feb. 6, 1928. Serial No. 252,088. 8 Claims. (Cl. 293—55.)



1. The combination with an automobile, of a wheel carrier and bumper connected thereto, both the wheel carrier and the bumper being movable from normal to abnormal position.

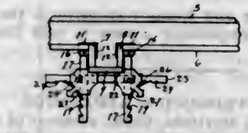
1,689,150. FASTENER. CHARLES H. MENSCH, Boyertown, Pa. Filed Mar. 13, 1923. Serial No. 624,799. 2 Claims. (Cl. 292—303.)

1. A fastener as for a casket and cover having supplemental securing means, said fastener comprising a headed member at one end of the body of the casket, an anchoring plate carried by the cover, a recess formed in the cover under the plate, said anchoring plate having a spring tongue and an adjoining slot, in the path of the entrance to which the tongue is positioned, and whereby upon yielding of said tongue, the headed member may enter the slot, said tongue having an upturned lug lying in the path of



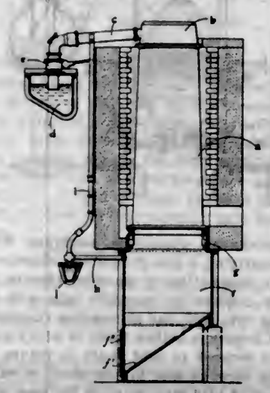
the headed member to prevent removal of such member from the slot, said tongue having a finger piece whereby the tongue may be operated to permit the cover to be removed to allow the headed member to disengage from the slot.

1,689,151. CONCRETE-FORM CLAMP. RUSSELL G. MERCER and GEORGE W. MERCER, San Francisco, Calif. Filed Sept. 10, 1927. Serial No. 218,702. 3 Claims. (Cl. 25—131.)



1. In a device of the character described, a securing element adapted to be retained in contact with the form boards of a concrete form, anchor bars formed integral with said securing element, a draw bar pivoted to said anchor bars and a clamping element carried by said draw bar for the purpose specified.

1,689,152. APPARATUS FOR THE DISTILLATION OF COAL AND SIMILAR CARBONACEOUS SUBSTANCES. CHARLES HENRY PARKER, Codsall, England. Filed Jan. 27, 1928. Serial No. 249,965, and in Great Britain Sept. 25, 1926. 1 Claim. (Cl. 202—14.)

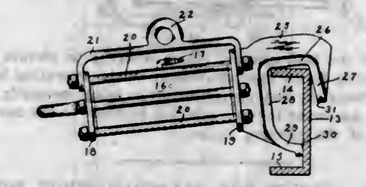


Apparatus for the distillation of coal and other carbonaceous substances comprising a vertical retort and a casing having a secondary storage chamber therein below said retort, said storage chamber having substantially the same capacity as said retort and having a sloping bottom and a side discharge outlet, a door at the bottom of the retort by which the charge from the retort may be allowed to fall into the secondary storage chamber, a gas outlet pipe communicating with the upper end of the retort and a tar main into which the said outlet pipe extends, a second gas outlet pipe communicating with the upper end of said secondary storage chamber adjacent said door, an ascension pipe with which the last-mentioned outlet pipe is connected, the said ascension pipe communicating at its upper end with the outlet pipe from the upper end of the retort, and a second hydraulic main into which the lower end of said ascension pipe extends.

1,689,153. ANTIFREEZE COMPOSITION. JAMES ROBERT PAUL, Charlotte, N. C. Filed Feb. 17, 1927. Serial No. 169,141. 4 Claims. (Cl. 252—5.)

3. An antifreeze composition consisting of the liquid formed by the combination of substantially equal parts of sodium thiosulphate and calcium chloride, a relatively small amount of tartaric acid, and water.

1,689,154. VIBRATOR. GEORGE B. PICKOP, New Haven, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn. Filed Jan. 2, 1926. Serial No. 78,837. 23 Claims. (Cl. 259—144.)



1. A vibrator comprising a casing and a jaw member rigidly secured thereto, said jaw member being provided with an opening adapted to receive a part of a member to be vibrated and to support the vibrator thereon.

1,689,155. DISPLAY CARD. PAUL L. RITTENHOUSE, Chicago, Ill. Filed June 2, 1926. Serial No. 113,318. 13 Claims. (Cl. 40—7.)

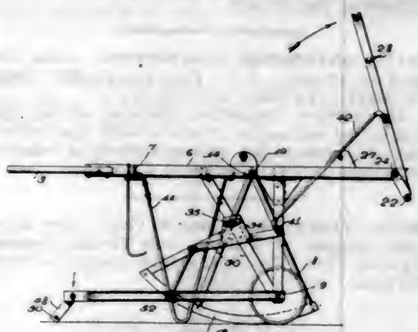


1. A relatively large display card, composed of relatively light stock, adapted for attachment to a carton or the like, comprising a central display portion, having laterally bendable wings, each wing having a basal flange adapted to be bent at right angles to the wing, one of said flanges extending beyond the line of bend of the wing and being slotted whereby when said wings are bent at an angle to said display portion and said flanges are bent at right angles to said wing portions and inserted under the top flap of the carton, said slotted portion of the flange will permit the display portion of the card to bow slightly dingonally across the top face of the carton, whereby to maintain the display portion in upright position.

1,689,156. HAND TRUCK. EARL RUFFNER, Wichita Falls, Tex. Filed Sept. 26, 1927. Serial No. 222,054. 6 Claims. (Cl. 214—82.)

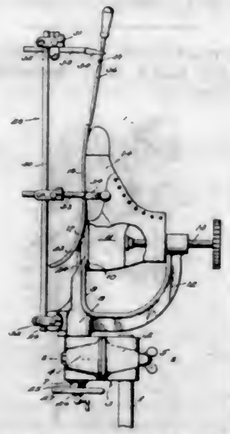
1. In a hand truck a wheeled frame, a load ejecting frame pivotally attached thereto and normally disposed

horizontally thereon, a lever pivotally mounted beneath the frame intermediate its ends to swing about a horizontal axis, an operating lever operatively connected with one end of the first mentioned lever and an operative connection between the opposite end of the first mentioned



lever and the load ejecting frame whereby to elevate the load ejecting frame upon movement of the operating lever in one direction, the operating lever being normally retained in an out-of-the-way position incident to the normal position of the ejecting frame.

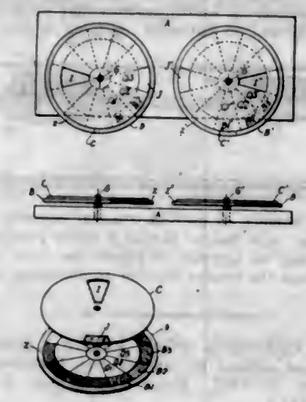
1,689,157. DEVICE FOR ATTACHING SHOE SOLES TO THE UPPERS. FRANK SAHR, Columbus, Ohio. Filed Dec. 26, 1923. Serial No. 682,601. 1 Claim. (Cl. 12—7.)



A lasting apparatus comprising a last clamp adapted for the reception of a last upon which is receivable a shoe upper and sole, a bearing provided in connection with said clamp, an adjustable rod mounted for longitudinal movement in said bearing and having its upper end provided with a hook shaped projection adapted for the reception of a flexible securing member employed in binding the shoe upper to the sole, threaded means carried by said clamp for controlling the longitudinal positions of said rod, and means operating independently of said threaded means for permitting of the rotation of said rod about its longitudinal axis.

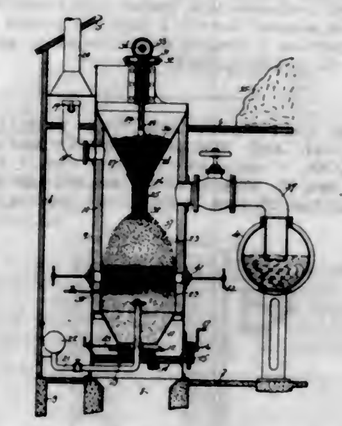
1,689,158. TOY GAME COLOR CHART. ALFRED A. SCHEUER, New York, N. Y., assignor of one-fourth to Harry Victor and one-tenth to Adele Palmer, New York, N. Y. Filed Nov. 30, 1927. Serial No. 236,769. 14 Claims. (Cl. 273—161.)

1. In a device of the class described embodying means for framing an interrogatory, means for exposing a color combination corresponding to the framed interrogatory, means independent of the framing means for setting up the



color combination and means responsive to the latter for exposing the corresponding answer to said framed interrogatory.

1,689,159. GAS-PRODUCING APPARATUS. WILBUR L. SHEPARD, West Hartford, Conn., assignor of one-half to Edward A. Beals, West Hartford, Conn. Filed June 11, 1925. Serial No. 36,346. 3 Claims. (Cl. 48—86.)

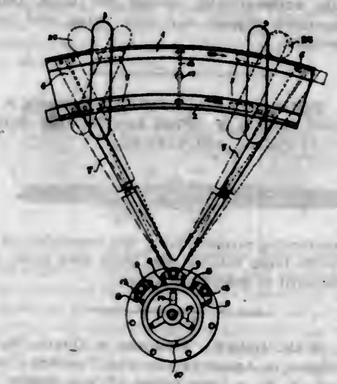


2. A gas producing apparatus combined with a fuel feeder and comprising a gas generating chamber arranged for the partial combustion of material therein, means for feeding air for combustion purposes into said chamber, a hopper opening into said gas generating chamber, a worm located in said hopper, a hollow shaft to which said worm is secured, means secured to said shaft to rotate it, a valve stem projecting through said hollow shaft, a valve secured to the lower end of said stem to close the opening from the lower end of the hopper, and means located on said stem to close said valve.

1,689,160. TURNTABLE FOR MOTOR-DRIVEN VEHICLES. HERMANN SIEGRIST, Frankfort-on-the Main, Germany. Filed Aug. 16, 1927, Serial No. 213,378, and in Germany Aug. 23, 1926. 5 Claims. (Cl. 104—38.)

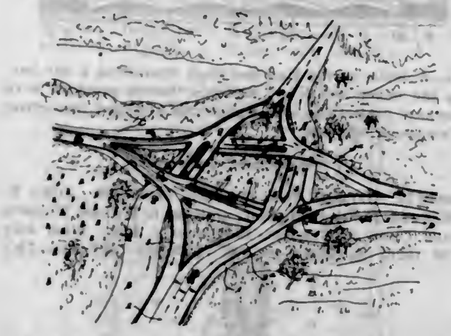
2. An electrically driven turn-table for motor and like vehicles operated from the driver's seat of the vehicle, comprising a driving motor for the turn-table, and movable

contacts controlling the supply of current to the driving motor the movement of which contacts is effected by ro-



tation of the front wheels of the vehicle operated by the driver thereof by means of the steering wheel.

1,689,161. HIGHWAY CROSSING. CHARLES A. SKULTIN, Toledo, Ohio. Filed Nov. 6, 1925. Serial No. 67,405. 2 Claims. (Cl. 94—1.)



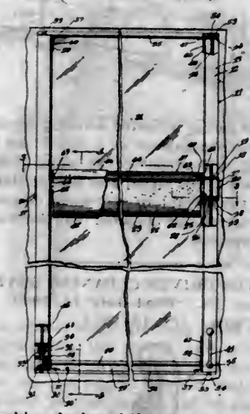
2. In a crossing, a plurality of corner structures, the corner structures being provided with inclined approaches having arms diverging inwardly of the crossing, viaducts connecting the adjacent arms of adjacent structures, a passage extending from each viaduct downwardly and inwardly of the crossing toward the next succeeding viaduct and having its lower end at road level, the space between the upper portion of said passage and the ground being open to permit vehicles to pass beneath said upper portion of the passage.

1,689,162. AIR-COOLING SYSTEM. LESLIE E. SMITLEY and FRANK S. MOORE, Los Angeles, Calif. Filed Oct. 25, 1927. Serial No. 228,660. 4 Claims. (Cl. 98—14.)



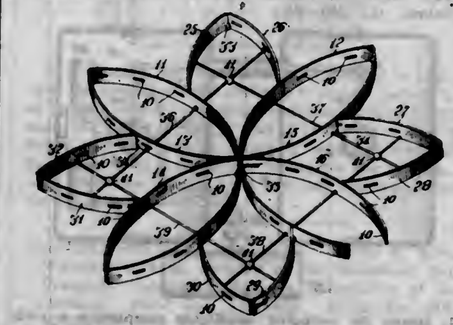
1. An air cooling system comprising a plurality of ventilators each adapted for supplying cooled air under pressure to reduce the temperature of an enclosed space, a cooled air supply line provided with branches each connected to a ventilator and with each branch having a normally closed spring controlled valve mechanism for closing the branch to the ventilator with which it is associated, means for cooling air under pressure, said means permanently communicating with said line, and time controlled electrically operated mechanisms for successively opening said valve mechanisms for a predetermined period to provide for the supplying of the cooled air under pressure to said ventilators for discharge into the enclosed spaces.

1,689,163. WINDOW-WASHING DEVICE. PHILIP H. SUKERT, Chicago, Ill. Filed Sept. 30, 1927. Serial No. 223,177. 3 Claims. (Cl. 15—254.)



1. In a washing device of the class described, two brushing elements two squeegee structures, one brushing element and one squeegee structure being adapted to be disposed on one side of the window pane and the other brush element and squeegee structure being adapted to be disposed on the other side of the window pane in parallel relation with the said one of the brush and squeegee structure, means connecting said brush elements and squeegee structures together for unison operation, and means for supplying a washing fluid to said brush elements, said brush elements and squeegee structures adapted to extend transversely of said window pane, means for moving said brush elements and squeegee structures longitudinally with respect to said window pane, and means operable by said operating means and operation of said brush elements for moving said brush elements and squeegees into and from contact with the window pane when said brush elements and squeegee structures reach their upper-most and lower-most positions.

1,689,164. GRILLE. PASCAL SYLVESTER, Chicago, Ill., assignor to Pascal Sylvester, Inc., a Corporation of Illinois. Filed Sept. 7, 1926. Serial No. 133,800. 4 Claims. (Cl. 94—3.)



4. An element for making ornamental terrazzo flooring comprising a metal grille unit composed of a plurality of united relatively wide but thin metal strips arranged on

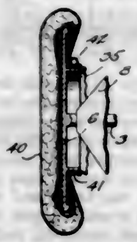
edge and positioned to form the desired pattern, said strips having their upper narrow edge faces located in a plane common to all, and constituting the top plane of the unit, and a plurality of reinforcing members disposed below said top plane, extending between and anchored to some of said strips for maintaining the strips in said arrangement.

1,689,165. RAILROAD-CROSSING SIGNAL. CHARLES H. TAYLOR, Calhoun Falls, S. C. Filed May 17, 1927. Serial No. 192,012. 7 Claims. (Cl. 246—293.)



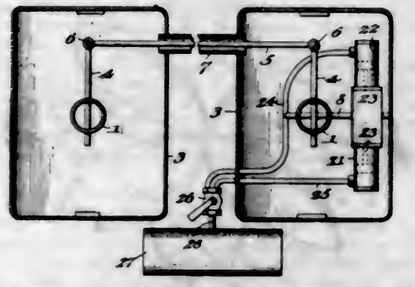
1. In a vehicle energy actuated warning device for a railroad crossing the combination of a signal; an undeformed section of track rail supported at usual intervals; and connections between said signal and said section to actuate said signal by the weight of a vehicle disposed on said section, said connections mounted independently of said section and its support.

1,689,166. POWER-DRIVEN CLEANING DEVICE. SALLIE VARNER, Elton, Pa. Filed July 14, 1926. Serial No. 122,417. 1 Claim. (Cl. 15—98.)



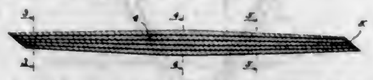
A cleaning device of the class described comprising a casing, a shaft rotatably mounted therein, a mop carrying member attached to one end of the shaft, a motor connected with the casing and having its shaft extending into the same, gears for connecing the shafts together, a handle connected with the motor casing, a mop, detachably secured to said mop carrying member, a cover including a strip of cloth surrounding the mop and lapping over the edges of the mop carrying member, an annular flange on said mop carrying member, and a ring for clamping said strip of cloth to said flange.

1,689,167. SWINGING AUTOMOBILE HEADLIGHT. JOHN RAPHAEL CAMBRON, Evansville, Ind. Filed Jan. 2, 1926, Serial No. 78,873. Renewed Sept. 12, 1928. 5 Claims. (Cl. 240—61.)



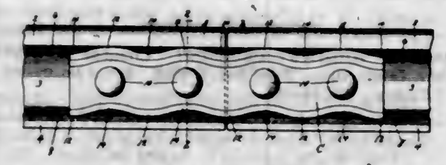
1. Means for swinging headlights comprising a rockably mounted member for turning the headlights, a latch mounted independently of said rockably mounted member adapted for latching the member in its respective positions, and a movable actuator adapted, when operated, to first mechanically automatically release the latch from the rockably mounted member and then swing said rockably mounted member.

1,689,168. STRIP FOR CORD TIRES. FREDRICK S. DICKINSON, New York, N. Y. Filed July 7, 1922. Serial No. 573,460. 12 Claims. (Cl. 154—52.)



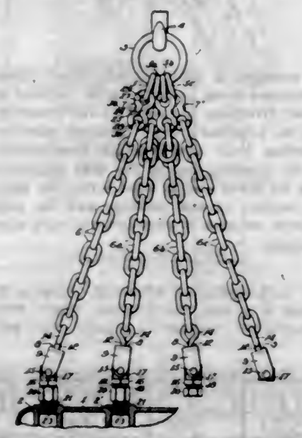
10. A reinforcing member for a tire consisting of a plurality of cords lying side by side, each cord being dimensionally distorted in different planes.

1,689,169. RAIL JOINT. NICHOLAS A. DOYLE, St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 28, 1928. Serial No. 273,609. 7 Claims. (Cl. 238—243.)



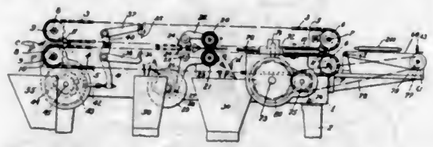
1. A device of the kind described comprising a bar having the upper and lower surfaces thereof provided with alternate projections and depressions arranged respectively staggered relation.

1,689,170. HITCH FOR ENGINE LIFTERS. JOHN F. FARMER, Indianapolis, Ind., assignor to William Wonders and Clara J. Wonders, Indianapolis, Ind. Filed July 30, 1926. Serial No. 126,003. 2 Claims. (Cl. 294—78.)



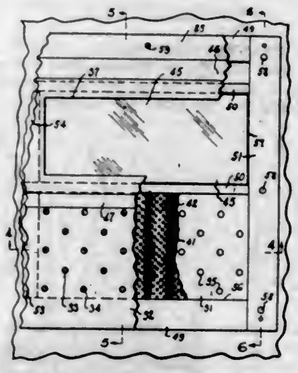
1. A hitch for engine lifters including a plurality of cables detachably connected together at one end thereof, the opposite ends of the cables having yokes swiveled thereto respectively, a plurality of hitch blocks pivoted to the yokes respectively and having each a screw-threaded plug thereon, and a plurality of adapters having socket members screwed on to the plugs respectively and provided respectively with screw-threaded plugs.

1,689,171. TOBACCO HANDLING AND STEMMING MACHINE AND METHOD. CLAIBORNE W. GOOCH, Jr., and ALEXANDER L. EWERS, Lynchburg, Va., assignors to Tobacco Stemming Machine Company, Lynchburg, Va., a Corporation of Delaware. Filed Aug. 11, 1925. Serial No. 49,526. 20 Claims. (Cl. 131—57.)



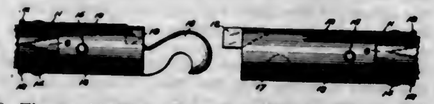
16. A tobacco stemming machine comprising feed belts having adjacent parallel stretches and transverse grippers thereon arranged to converge at the feed end of the belts and grip between them a tobacco leaf near its mid-length and convey the leaf tip-first longitudinally through the machine, complemental stripper rolls arranged at opposite sides of the adjacent belt stretches, and means for moving the rolls divergently to permit passage of the grippers, and convergently to engage the leaf close behind the grippers and strip from the stem the membrane portions back of the grippers and subsequently acting cutting means to sever the portion of the stem extending behind the grippers.

1,689,172. VISITOR'S PARTITION FOR JAILS AND THE LIKE. GEORGE J. KOSTERS, Covington, Ky., assignor to The Stewart Iron Works Company, Covington, Ky., a Corporation of Kentucky. Filed Aug. 8, 1927. Serial No. 211,466. 6 Claims. (Cl. 189—5.)



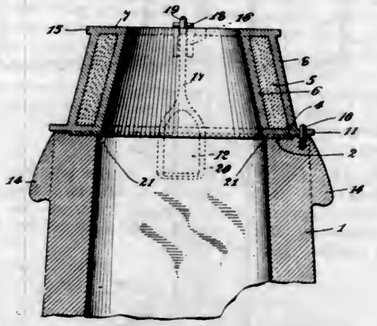
1. A visitor's partition of the character described, comprising front and rear perforate plates and an intermediate perforate layer between said plates extending across the perforations in said plates, said intermediate perforate layer formed with recurrent elevations and depressions and with slanting portions extending slantingly between perforations of opposite ones of said plates for the purpose described.

1,689,173. ROD COUPLING. ALFRED B. PARKER, Wollaston, Mass., assignor to Waldo Bros. and Bond Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 17, 1924. Serial No. 699,623. 6 Claims. (Cl. 287—119.)



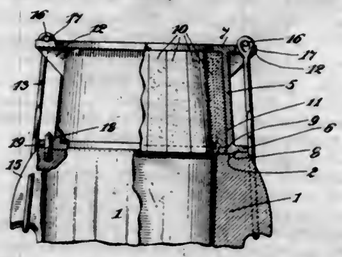
2. The combination of a rod presenting a tapered terminal portion; a ferrule member presenting a tapered socket receiving said tapered terminal portion, said member presenting two lateral openings; and spaced reinforcing ribs intermediate said openings; and a fastening element extending through said rod and through said ferrule member across said openings and between said ribs.

1,689,174. SEPARABLE HOT TOP FOR INGOT MOLDS. JOHN EDMUND PERRY, Sharon, Pa., assignor to Valley Mould & Iron Corporation, Hubbard, Ohio, a Corporation of New York. Filed Apr. 24, 1926. Serial No. 104,258. 8 Claims. (Cl. 22—147.)



5. The combination of an ingot mold having a smooth seating surface on the mouth end thereof, a hot top member having a metal base provided with a smooth seating surface on the bottom thereof and forming a tight metal to metal joint with the end of the mold and with a portion of said surface extending over and above the matrix of the mold, heat insulating material within said hot top, locking lugs upon said mold adjacent the mouth thereof, and means extending from said locking lugs to said hot top to tightly clamp said hot top to the end of said mold so that said mold and said hot top may be used as an entity for a plurality of heats.

1,689,175. HOT TOP FOR INGOT MOLDS. WILLIAM HAIG RAMAGE, Girard, Ohio, assignor to Valley Mould & Iron Corporation, Sharpsville, Pa., a Corporation of New York. Filed Jan. 18, 1926. Serial No. 81,920. 11 Claims. (Cl. 22—147.)

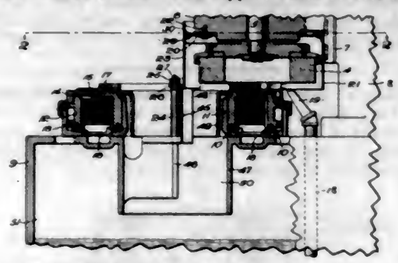


1. A hot top for ingot molds comprising a cast iron shell the lowermost part of which is a plane bottom adapted to rest on an ingot mold, internally extending flanges with the upper flange of less diameter than the lower flange, and fire brick permanently cemented between said flanges to form a refractory lining for the hot top, and with a portion of said brick covering the lateral face of the lower flange.

1,689,176. GRINDING MACHINE. HENRY K. SPENCER, Watertown, Mass., assignor to The Blanchard Machine Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 17, 1923. Serial No. 619,738. 12 Claims. (Cl. 51—26.)

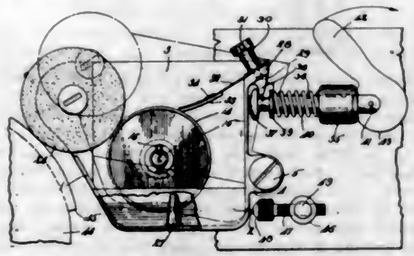
1. In an abrading machine, the combination of an abrading tool, means for supplying fluid to cool said tool

and the work and to carry away the material removed by said tool, an annular work-support which rotates about



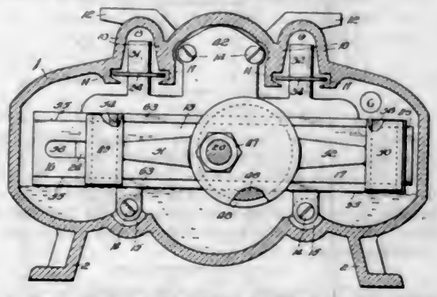
a generally vertical axis, a bearing for said work-support, and a guard encircled by said bearing and protecting the same from said fluid and said material.

1,689,177. INKING DEVICE. FREDERICK W. STORCK, Somerville, Mass., assignor to Standard Mailing Machines Company, Everett, Mass., a Corporation of Massachusetts. Filed July 29, 1924. Serial No. 728,877. 5 Claims. (Cl. 101—351.)



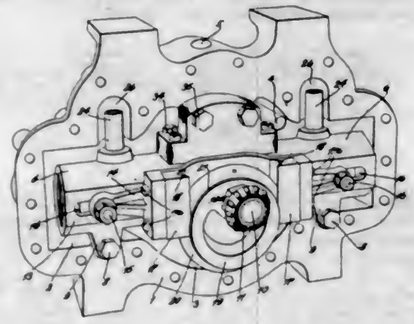
1. In a device of the character specified the combination of an ink pot, an ink roller, a lug provided with a slot projecting from the back of said ink pot, said lug having a cylindrical bore to support a shaft, a shaft loosely mounted in said bore, said shaft being provided with an offset extension, a feed roller mounted on said extension, a cap attached to said shaft, and a coil spring, one end of which enters said slot and the other end of which is attached to said cap, said spring being adapted to rotate said shaft and swing said feed roller mounted on said extension thereof toward said ink roller.

1,689,178. PUMP. GEORGE L. STREBLER, St. Louis, Mo., assignor to Strebler Appliances, Inc., St. Louis, Mo., a Corporation of Delaware. Filed Dec. 4, 1925. Serial No. 73,106. 26 Claims. (Cl. 230—192.)



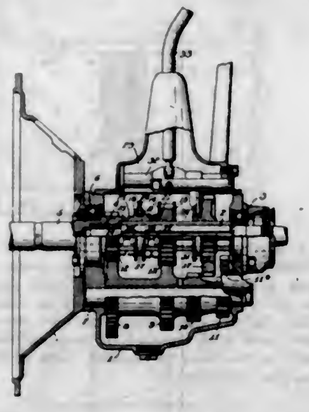
1. In a pump of the class described, piston driving mechanism including a pair of arms having facially slotted heads at each end thereof and disposed at right angles to the center line of the piston driving mechanism, and means to move the driving mechanism in fixed circular orbital paths in sliding relation with the pistons.

1,689,179. COMPRESSOR. GEORGE L. STREBLER, St. Louis, Mo., assignor to Strebler Appliances, Inc., St. Louis, Mo., a Corporation of Delaware. Filed May 12, 1926. Serial No. 108,527. 11 Claims. (Cl. 230—192.)



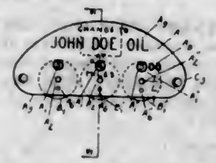
1. A compressor comprising a cylinder having an inlet and an outlet passage, a piston within the cylinder, means controlling the passage of air or gas from said inlet passage through the piston and through said outlet passage from said cylinder, a sliding frame at the side of the cylinder connected with said piston, means to support the frame for sliding movement, a pair of bearing shoes attached to said frame, an eccentric between said shoes, a ring rotative on said eccentric and engaging said shoes, and means for rotating said eccentric and thereby reciprocating said frame and said piston.

1,689,180. TRANSMISSION GEAR. SAMUEL O. WHITE, Muncie, Ind., assignor to Warner Gear Company, Muncie, Ind., a Corporation of Indiana. Filed Nov. 10, 1924. Serial No. 748,823. 2 Claims. (Cl. 74—59.)



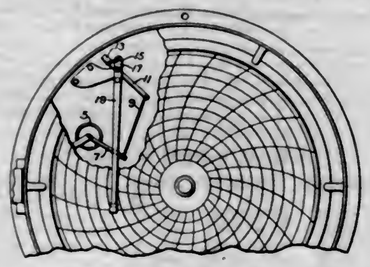
1. In an automobile transmission the combination with a casing, a shaft extending into said casing and having that portion thereof arranged within the casing continuously splined from end to end, a plurality of gears on said shaft certain of which have splined connection with the splines of the shaft and certain others of which are freely rotatable on said splines, a counter-shaft, a plurality of gears on said counter-shaft held against axial displacement by the side walls of the casing certain of said gears meshing with the freely rotatable gear on the first mentioned shaft and inter-engaging means therebetween for holding the freely rotatable gear axially stationary.

1,689,181. OIL-CHANGE RECORDER. DANIEL M. WINANS, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a Corporation of New York. Filed Apr. 29, 1927. Serial No. 187,454. 3 Claims. (Cl. 40—70.)



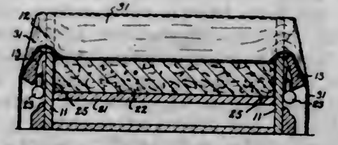
1. In an oil change registering device comprising a dial plate equipt with a plurality of spaced peek holes, a separate individually manipulative disc provided with numerical indices pivotally mounted behind each such hole and adapted to selectively register a numeral therethrough for collectively fixing upon a definite recorded dial reading, each of said discs having a periphery portion disposed in overhanging relation to one edge of said plate and adapted to be manually tilted away from the adjacent face of said plate, spring means serving to independently urge the several discs toward said adjacent plate face, and separate latch means for each of the discs adapted to be disengaged by tilting said overhanging edge thereof.

1,689,182. SEPARABLE-ARM CONSTRUCTION FOR MEASURING INSTRUMENTS. EDGAR H. BRISTOL, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Nov. 19, 1927. Serial No. 234,468. 13 Claims. (Cl. 116—129.)



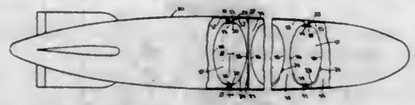
1. In a measuring instrument, a two part index arm, the elements thereof having abutting portions and respectively provided with elements of a resilient separable fastener arranged to be engaged and released by a force exerted longitudinally of the arm and when engaged serving to hold said abutting portions together.

1,689,183. BURIAL CASKET. MICHAEL F. DAVORAN, Cincinnati, Ohio, assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 14, 1927. Serial No. 168,153. 1 Claim. (Cl. 27—4.)



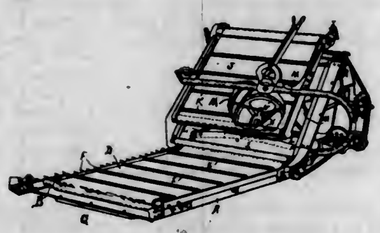
A burial casket comprising a body portion having rigid end walls of full height and side walls, each of said side walls having rigid end portions of full height and a rigid median portion of partial height, said rigid median portion of partial height extending throughout the major portion of said side wall, the inner ends of said rigid end portions of full height of each of said side walls having sloping inner ends in the plane of said rigid end portions and sloping inwardly and downwardly toward said rigid median portion of partial height, a body-support of substantially the height of said rigid median portions of partial height, said body-support located between said walls, each of said side walls thus formed provided with a gap above said rigid median portion thereof of partial height between said sloping inner ends, movable sections for both said side walls, each of said movable sections provided with sloping outer ends complemental to said sloping inner ends, a removable lid provided with an upwardly extending dome above said body-support, the inner space of said dome being higher than the height of said movable sections, and releasable securing means between said lid and said body-portion.

1,689,184. GAS CELLS FOR AIRSHIPS. EUGEN SCHOETTEL, Akron, Ohio, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio, a Corporation of Delaware. Filed Nov. 25, 1927. Serial No. 235,454. 5 Claims. (Cl. 244—3.)



1. A rigid airship comprising spaced transversely disposed main rings, gas cells disposed between the main rings and normally having cavities formed by the end walls thereof and means connecting the end walls of the gas cells in gas-tight relation to form gas chambers within the inner circumference of the main rings.

1,689,185. ATTACHMENT FOR SELF-BINDERS. MILES L. SHUTE, near Richmond, Ind. Filed June 17, 1926. Serial No. 116,607. 1 Claim. (Cl. 56—207.)

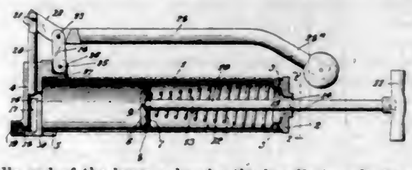


In combination with a harvesting machine having a horizontal traveling apron, an upwardly extending traveling apron adapted to receive material from the horizontal apron, a stationary platform located under the horizontal apron, a brace secured in its center with its outer portions extending downward and outward at angles opposite to each other with its ends permanently secured; a sheet metal plate of oblong shape having its upper corners bent centerward and around the angular portions of the brace, from which brace it curves downward and outward, tongues formed by incisions cut in the outer edge of said plate and engaging the inner edge of the said platform which is located under the horizontal apron.

1,689,186. LUBRICATING DEVICE. CHARLES L. ZABRISKIE, New York, N. Y., assignor, by mesne assignments, to Rogers Products Co., Inc., a Corporation of New Jersey. Filed Jan. 27, 1926. Serial No. 84,101. 4 Claims. (Cl. 221—47.3.)

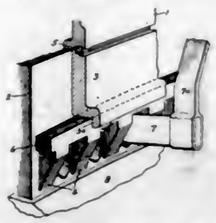
1. In combination, a grease supplying cylinder, a pump cylinder extending transversely of said supply cylinder, an outlet from the supply cylinder into said pump cylinder, a single acting pump plunger within said pump cylinder, a lever handle extending along the supply cylinder and

pivoted to the pump plunger, and a fulcrum for said lever on said supply cylinder, between the plunger pivot and the



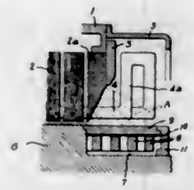
handle end of the lever, whereby the handle is pulled away from the supply cylinder, on expulsive movement of the plunger.

1,689,187. DYNAMO-ELECTRIC MACHINE. ROBERT POHL, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Feb. 17, 1927, Serial No. 169,049, and in Germany Mar. 29, 1927. 11 Claims. (Cl. 171—252.)



1. In a dynamo-electric machine, a stator including laminations of nmgnetic material transversely aligned to form a surface adapted to substantially conform to a rotor, and a group of laminations adjacent the end of the stator having their edges presented toward the axis of the stator and at different distances from the axis of the stator in order to reduce eddy current losses due to end strap field flux.

1,689,188. DYNAMO-ELECTRIC MACHINE. ROBERT POHL, Berlin, Germany, and HENRY G. REIST, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Mar. 29, 1927, Serial No. 179,298, and in Germany Apr. 19, 1926. 6 Claims. (Cl. 171—252.)



1. In a dynamo-electric machine, a stator including laminations transversely aligned to form a surface adapted to substantially conform to a rotor, clamping members for retaining said laminations in said stator, and a group of said laminations between said clamping members and adjacent the end of the stator having their edges at different distances from the axis of the stator in order to reduce eddy current losses due to end stray field flux, said group of laminations being of substantially the same outer diameter as said stator laminations.

Patents Nos. 1,689,189 to 1,690,092.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 375—No. 5. TUESDAY, OCTOBER 30, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mail'ed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.
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Trade-Marks	242—No.	242,643 to No.	242,884, inclusive.
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Prints	7—No.	11,301 to No.	11,307, inclusive.
Reissues	5—No.	17,118 to No.	17,122, inclusive.
Designs	27—No.	76,731 to No.	76,757, inclusive.
Patents	904—No.	1,689,189 to No.	1,690,092, inclusive.
Total	1,284		

Disclaimers.

1,385,141.—*Philip A. Myers*, Ashland, Ohio. POWER HEAD. Patent dated July 19, 1921. Disclaimer filed October 12, 1928, by the assignee by mesne assignments, *The F. E. Myers & Bro. Company*, the patentee, *Philip A. Myers*, concurring.

Hereby enters a disclaimer limiting claim 7 of said patent as follows:

By restricting the elements "vertical reciprocating member mounted in the casing" to a single slide on a single guide; and

By restricting the element "operated (referring to the reciprocating member) by such shaft and gearing" to include a pitman.

1,393,306.—*Philip A. Myers*, Ashland, Ohio. POWER HEAD. Date of Patent October 11, 1921. Disclaimer filed October 12, 1928, by *The F. E. Myers & Bro. Company*, the patentee, *Philip A. Myers*, concurring.

Hereby enters a disclaimer limiting claim 1 of said patent as follows:

By restricting the element "vertical guide" of said claim 1 to a single guide;

By restricting the element "slide mounted on said guide" to a single slide;

By restricting the element "means" for connecting said slide to the apparatus to be operated, to an arm on one side of the slide; and

By restricting the element "operating connection" between the slide and the actuating mechanism, to a pitman.

NOTICE.

WITHDRAWING CASES FROM ISSUE.

RECORDING ASSIGNMENTS.

The job of printing the Official Gazette with approximately 1,200 original cuts each week and of issuing over 1,200 patents, designs, and trade-marks each Tuesday, is so stupendous that it has been necessary for the Patent Office to rigidly enforce Rules 165 and 188 in order to make certain that the Gazette and patents will be issued on the day they are dated. The first of these rules is against withdrawing a case from issue after the final fee has been paid and the other makes it necessary for an assignment to "be recorded in the Patent Office at a date not later than the day on which the final fee is paid." Every now and then a request is made for the Office to make exceptions to one or the other of these rules. Therefore this notice is published so that those doing business with this Office may know that these rules are of necessity being rigidly enforced and that no exceptions can be made to them.

Oct. 18, 1928.

THOMAS E. ROBERTSON,
Commissioner.

Condition of Applications Under Examination at Close of Business October 19, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 112,129; Trade-Mark Division, 1,781. Oldest new case, Dec. 23, 1927; oldest amended, Dec. 23, 1927. The dates given are 1928 except where † indicates 1927.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Feb. 15	Feb. 18	1,562
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Feb. 25	Mar. 1	1,600
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Feb. 15	Feb. 21	1,418
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Jan. 7	Jan. 9	1,579
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Jan. 14	Jan. 14	1,544
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Jan. 23	Jan. 24	2,556
106	7. JARBOE, C. G., Optics; Photography	Jan. 9	Jan. 7	1,959
133	8. HENRY, C. C., Beds; Chairs, Kitchen and Table Articles; Racks and Cabinets	Feb. 25	Mar. 22	1,656
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 20	Mar. 17	1,805
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Feb. 20	Feb. 23	1,776
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Apr. 16	Apr. 14	915
380	12. PIERCE, P. P., Machine Elements	Feb. 13	Feb. 1	1,985
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Feb. 17	Feb. 3	1,525
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Jan. 21	Jan. 25	1,707
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 13	Jan. 13	2,633
242*	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 27	Feb. 17	1,203
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding, Type Setting.	Jan. 18	Feb. 10	1,482
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Jan. 10	Jan. 7	1,673
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Feb. 15	Feb. 7	1,947
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Apr. 10	Apr. 23	1,425
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Jan. 12	Feb. 10	1,075
217	23. GRUESBECK, W. D., Coin Handling; Recorders; Registers	†Dec. 31	Jan. 14	1,626
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Jan. 4	Jan. 5	1,128
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Jan. 19	Jan. 30	1,571
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Apr. 5	Apr. 6	1,660
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Feb. 1	Feb. 3	1,212
225	28. BENSON, A. R., Internal-Combustion Engines	Mar. 24	Mar. 26	1,505
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Feb. 15	Feb. 17	1,900
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Feb. 15	Feb. 23	1,133
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Jan. 26	Apr. 2	1,461
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Feb. 6	Feb. 9	2,128
152	33. WYMAN, W. L., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Jan. 19	Jan. 11	2,165
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	May 7	May 4	2,029
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Jan. 4	Jan. 20	1,400
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Apr. 17	Apr. 28	1,638
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 5	Mar. 3	2,089
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Jan. 3	Feb. 1	2,302
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 19	Mar. 23	1,905
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Jan. 3	Jan. 7	1,925
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Jan. 25	Mar. 9	2,738
223*	42. CUTTING, H. O., Electric Signaling	Feb. 14	Feb. 29	1,448
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Jan. 20	Feb. 25	1,592
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Feb. 6	Mar. 15	2,188
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Jan. 30	Feb. 3	2,066
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Jan. 7	Feb. 1	2,475
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Jan. 24	Jan. 24	1,882
212*	48. ROEPKE, O. B., Electricity, General Applications	Feb. 13	Feb. 28	2,010
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Feb. 10	Feb. 9	1,691
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Jan. 16	Feb. 6	1,530
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Feb. 9	Feb. 16	2,608
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Jan. 27	Jan. 25	2,296
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Feb. 23	Feb. 24	2,202
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Mar. 19	Mar. 20	1,795
102	55. BOWEN, S. T., {Bread, Pastry, and Confection Making; Cutlery {Designs	Jan. 30	Jan. 28	2,384
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Jan. 26 Sept. 14	Jan. 27 Sept. 27	837 591
257*	57. NICOLSON, G. D. O, Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	†Dec. 23	†Dec. 23	2,517
270*	58. DOWELL, E. F., Abrading; Typewriting	Feb. 11	Feb. 7	1,194
315	59. RICHARD, V. L., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	Jan. 9	Jan. 7	1,421
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Jan. 3	Jan. 3	2,621
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Jan. 10	Jan. 13	1,704
245*	62. COFFRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	Jan. 12	Jan. 12	2,235
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks {Labels and Prints	Jan. 9	Feb. 3	2,812
		Sept. 20 Sept. 23	Oct. 8 Oct. 3	1,619 162

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

BROWNE *v.* HARRISON. HARRISON *v.* BROWNE.

Nos. 1,903 and 1,904. Decided June 4, 1928.

INTERFERENCE—PRIORITY.

Priority *Held* properly awarded to B. as to certain counts of the issue, and *Held* further that B. is entitled to priority as to the other counts since "The change of construction was but a mere alteration of elements already obvious in Browne's invention, and can not entitle Harrison to priority. The same conclusions arise with reference to the downwardly-extending antenna of Harrison. Moreover it is apparent that both of these elements were considered by Browne when constructing his device before the time when Harrison entered the field."

CROSS APPEALS from a decision of the Commissioner of Patents. Affirmed in part; reversed in part.

Mr. Robert S. Blair for Browne.

Mr. Frank B. Fox and *Mr. E. G. Mason* for Harrison.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.*:

The invention involved herein relates to marine mines which are designed to be submerged in the sea and by force of their explosion to destroy hostile vessels. Such mines became critically important during the World War as a means of defense against enemy submarines.

The issues of the interference are stated in 7 counts, reading as follows, to wit:

1. A marine ordnance apparatus comprising an electro detonator and means for operating said detonator embodying elements submerged in the sea and organized to utilize the condition of electrical potential caused by the action of the sea water on a marine hull in contact with one of said elements.

2. A submarine device comprising a submerged mine having a conductor extending therefrom, and means by which the mine is exploded by the conditions of electrical potential due to the electro-chemical action of sea water upon it and a vessel's hull in contact with it.

3. A submarine mine adapted for submersion in sea water, an antenna having a length equal to several times the diameter of the mine extending from said mine so that contact may be made therewith by the hull of a vessel; and means whereby, when said contact is made, said mine is exploded.

4. In marine mine firing-gear requiring electric power in substantial amount for its operation, a battery device as source of such power having a pole element negative with respect to ferrous metal exposed to the sea water, and means for combining the vessel to be attacked with said pole element to form a complete galvanic battery with the sea water as electrolyte, polarization thus taking place on the attacked vessel.

5. A marine mine equipment having electrical firing means; intrinsically complete in situ, as regards provision for energy supply for operating such firing means, when in the sea; and comprising as source of such energy, a battery device whereof the water of the immediate environment is electrolyte.

6. In marine mine firing-gear having electrical firing means, a battery device whereof the sea water is electrolyte as source of energy for operating such firing means, and means automatically responsive to conditions of attack for causing operation of the firing means, said responsive means being enabled to respond by energy from said battery device.

7. The combination with a marine mine firing by combination of the vessel to be attacked in a galvanic-couple circuit, of an anchor cable therefor comprising a conductor electrically insulated from the mine case and connected to serve as a circuit-forming contact antenna for firing the mine.

The Commissioner of Patents, affirming the unanimous decisions of the lower tribunals of the Patent Office, awarded priority of invention as to counts 1, 2 and 3 to Browne, the senior party. The Commissioner dissolved the interference as to count 4, and awarded priority of invention as to counts 5, 6 and 7 to Harrison, the junior party. Cross appeals were taken from these awards.

The type of mine involved in the interference embodies a novel application of certain elementary electrical laws. It has long been known that if two metal plates of dissimilar electrical potentials, as for example plates composed respectively of steel and copper, be placed in salt water and connected together by a conductor, an electric current will be produced as in an ordinary electric cell or battery, the salt water serving as the electrolyte and the metal plates as the electrodes. The present invention makes use of this principle in a device for firing submerged marine mines. A copper plate is mounted upon the mine, and a conductor called the antenna extends from it through the firing device, and thence upwardly for a suitable distance to a float submerged below the surface of the water. Accordingly when the vessel having a steel hull contacts with the antenna an electric current is produced, the sea water serving as electrolyte and the steel hull of the vessel and the copper plate of the mine serving as electrodes. This combination is termed a sea battery, and the mine is fired, either directly or indirectly, by means of the electric current so produced. It is said that prior to this invention there was no effective marine mine which could be exploded by a hostile vessel unless the vessel came into actual contact with the mine; and therefore in order to protect a sea area of even moderate size a large number of mines would be required. But this mine is exploded when a hostile vessel contacts with the antenna, and this may be extended to a distance from the mine restricted only by the effectiveness of the explosive charge contained in it, and a single mine may be equipped with multiple antennæ extending in different directions. Accordingly a given sea area may be protected by a greatly-decreased number of mines.

The party, Browne, first conceived the idea of a marine mine embodying these elements and first reduced the conception to practice. According to his plan of construction the electric current passing through the mine was not sufficiently strong to directly fire the detonator of the mine. This current therefore was used in a relay circuit which operated to close a second circuit equipped with dry cells, whereby a greater current was brought to the detonator, thus firing it and exploding the mine. Browne's invention was practicable and effective, and came at a time in the World War when the submarine peril was acute. The Navy Bureau of Ordnance ordered large numbers of the mines, and it is correctly said that the invention became a potent factor in overcoming the submarine menace; and that it formed the substance of the so-called North Sea barrage of mines planted in the latter part of the war and extending from the north

of Scotland to Norway, which assisted in preventing the egress of enemy submarines from the North Sea, and thereby reduced their destructiveness toward the end of the war. It is said that the use of this mine, officially called Mark VI mine, reduced the number of mines required for the barrage across the North Sea by two-thirds. See "Navy Ordnance Activities, World War, 1917–1918," pp. 107 et seq.

It clearly appears that Browne's mines of the Mark VI type, were under production at a factory located at Cambridge, Mass., before Harrison first came upon the scene. He appeared there as a naval inspector to supervise the manufacture of Browne's mines, and received full information from the factory as to their construction. The broad claims of Browne's invention, taken from his application, are to be found in counts 1, 2 and 3 of the issue. It is contended by Harrison that these counts—

are lacking in invention and not patentable because they state indefinite and incomplete combinations in terms of function merely.

This contention was denied by the Law Examiner, and overruled by the Examiner of Interferences, whose decision upon that subject was successively affirmed by the Examiners in Chief and the Commissioner of Patents. We approve of the decision as to these counts upon the grounds sufficiently set out by the tribunals of the Patent Office.

Counts 5, 6 and 7 of the issue are taken from Harrison's application, and form the basis of his claim. The alleged invention of Harrison consists in taking a mine of the Browne type and increasing the size and altering the form of the copper plate serving as one of its electrodes, thus increasing the wattage of the electric current set up by the sea battery, so that the current thus generated may be connected to the detonator of the mine, thereby exploding the mine directly by means of the sea battery current without the aid of a relay circuit or of dry cells. This method of operating the mine is called "direct firing." In addition to this Harrison extends an antenna downward from the mine and anchors it in place. These additions are the basis of Harrison's claims, as set out in counts 5, 6 and 7 of the issue.

The decisions of the Patent Office as to these counts are not uniform. The Examiner of Interferences awarded priority of invention as to them to Harrison. The Examiners in Chief held that priority as to count 5 should be awarded to Harrison, but recommended that the claim be rejected as unpatentable; and that priority as to counts 6 and 7 should be awarded to Browne. The Commissioner of Patents awarded priority as to counts 5, 6 and 7 to Harrison.

In our opinion Harrison's "direct firing" device does not amount to invention over Browne's structure. It is well said by the Law Examiner that—

in the present development of the electrical art, structures are equivalent though one has a local circuit and relay and the other does not.

The change of construction was but a mere alteration of elements already obvious in Browne's invention, and can not entitle Harrison to priority. The same conclusions arise with reference to the downwardly-extending antenna of Harrison. Moreover it is apparent that both of these elements were considered by Browne when constructing his device before the time when Harrison entered the field.

The decision of the Commissioner of Patents as to counts 5, 6 and 7, involved in appeal 1,003, is reversed, and priority of invention as to these counts is awarded to the senior party, Browne. The decision of the Commissioner of Patents involved in appeal 1,004, awarding priority of invention as to counts 1, 2 and 3 to Browne is affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

970,994, J. Fichtmueller, Decorative leaf and making same; 984,805, same, Decorative leaf; 992,743, K. E. Olson, Gilding film or leaf, D. C., S. D. N. Y., Doc. E 43/68, *Leaf Makers Supply Corp. v. V. Dorner.* Consent order of discontinuance Sept. 6, 1928.

984,805. (See 970,994.)

992,743. (See 970,994.)

1,018,502, Just and Hanaman, Manufacture of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, D. C., N. D. Calif. (San Francisco), Doc. 2158–L, *General Electric Co. v. Eckert-Lloyd Corp. et al.* Patent held valid and infringed (notice dated Aug. 29, 1928). Same, filed Aug. 7, 1928, D. C. N. J. (Trenton), Doc. E 3486, *General Electric Co. v. Industrial Research Laboratories, Inc., et al.*

1,040,349, C. F. Kettering, Ignition system; 1,163,092, same, Timer or current interrupter; 1,227,038, W. A. Chryst, Resistance unit for electric circuits; 1,265,918, W. O. Kennington, Circuit breaker and distributer unit; 1,218,568, 1,218,596, same, Article composed partly of rubber; 1,354,888, O. F. Conklin, Ignition apparatus; 1,556,901, C. E. Berkdoll, same; 1,557,207, 1,593,339, F. C. Kroeger, same; 1,372,065, same, Distributor device for ignition apparatus, filed July 27, 1928, D. C. N. J. (Trenton), Doc. E 3479, *Delco Remy Corp. v. Superior Distributors, Inc.*

1,108,184, T. Kerner, Garbage and refuse incinerator, filed Aug. 30, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–32–J, *A. J. Cavaney v. G. C. Boyer (Autocrat Incinerator).*

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Aug. 29, 1928, D. C., S. D. N. Y., Doc. E 46/236, *Claude Neon Lights, Inc., v. Northern Tube Lights, Inc., et al.* Same, filed Aug. 31, 1928, D. C., S. D. N. Y., Doc. E 46/285, *Claude Neon Lights, Inc., v. Photion Instrument Corp. et al.* Same, filed Aug. 30, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2184–K, *Electrical Products Corp. v. Northern Lights, Inc., et al.*

1,128,120, J. T. Fagan, Machine for manipulating glass rods and forming spiders therewith; 1,220,836, Frech & Fagan, Filament-support wire-inserting machine, D. C. N. J. (Trenton), Doc. E 1147, *General Electric Co. v. C. Eisler et al.* Final decree July 17, 1928.

1,163,092. (See 1,040,349.)

1,164,718, H. C. Hill, Machine for manufacturing spherical bodies, appeal filed Aug. 28, 1928, C. C. A., 7th Cir., Doc. 4089, *Peltier Glass Co. v. The Akro Agate Co.*

1,173,079, E. F. Alexanderson, Selective tuning system; 1,195,632, W. C. White, Circuit connections of electron-discharge apparatus; 1,231,764, F. Lowenstein, Telephone relay; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct-current potentials; 1,426,754, R. C. Mathes, Circuit for electron discharge device, filed June 11, 1928, D. C. N. J. (Trenton), Doc. E 3320, *Radio Corp. of America et al v. Shamrock Mfg. Co.*

1,180,159. (See 1,018,502.)

1,195,632. (See 1,173,079.)

1,214,168, Johnson & Benson, Edible container; Des. 67,018, J. Denaro, same, filed Aug. 23, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2183, *American Pastry Products Corp. v. American Baking Co.*

1,218,568. (See 1,040,349.)

1,218,596. (See 1,040,349.)

1,220,836. (See 1,128,120.)

1,227,038. (See 1,040,349.)

1,231,764. (See 1,173,079.)

1,239,425, 1,239,426, E. Audero, Mechanical horn; 1,317,473, same, Physical instrument for the production of sound waves; 1,414,612, 1,429,217, same, Signal for motor vehicles; Re. 14,378, same, Alarm device, filed Sept. 5, 1928, D. C., S. D. N. Y., Doc. E 46/300, *E. A. Laboratories, Inc., v. General Motors Corp.*

1,239,426. (See 1,239,425.)

1,251,377. (See 1,173,079.)

1,259,917, E. L. Sharpneck, Heel for shoes, filed July 30, 1928, D. C. N. J. (Trenton), Doc. E 3480, *E. L. Sharpneck v. United Shoe Machinery Corp.*

1,265,918. (See 1,040,349.)

1,271,527, M. C. Hopkins, Sound-regenerating machine; 1,271,529, same, Acoustic device, D. C. N. J. (Trenton), Doc. E 2079, *Lektophone Corp. v. Brandes Products Corp.* Final decree July 17, 1928.

1,271,529. (See 1,271,527.)

1,271,529, M. C. Hopkins, Acoustic device, D. C. N. J. (Trenton), Doc. E 2941, *Lektophone Corp. v. Splitdorf Radio Corp.* Order of discontinuance July 24, 1928.

1,281,690, L. J. Stern, Method of stopping leaks in automobile radiators, D. C. N. J. (Trenton), Doc. E 2077, *E. R. Tolfree et al. v. S. G. Wetzler et al.* Decree on mandate reversing decree of district court July 9, 1928.

1,290,011. (See 1,678,727.)

1,302,584, L. Olsen, Method of forming bearings, appeal filed Aug. 14, 1928, C. C. A., 7th Cir., Doc. 4085, *American Bearing Corp. v. Milwaukee Die Casting Co.*

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed Aug. 31, 1928, D. C. Kans., 1st Div., Doc. 1166, *The Bassick Mfg. Co. v. B. W. Lamb (Lamb Automotive Supply Co.).*

1,307,734. (See 1,307,733.)

1,308,583, A. C. Dennis, Tunneling, filed Aug. 7, 1928, D. C., E. D. Wash. (Spokane), Doc. E 4341, *A. C. Dennis et al. v. Great Northern Railway Co. et al.*

1,317,473. (See 1,239,425.)

1,354,888. (See 1,040,349.)

1,372,065. (See 1,040,349.)

1,380,710, E. G. Goben, Cutting machine for cloth; 1,482,605, 1,600,728, same, Folding machine; 1,515,770, same, Adjustable feeding apparatus; 1,554,722, same, Doffing device, filed Aug. 30, 1928, D. C., E. D. La. (New Orleans), Doc. 19,168, *The E. V. Benjamin Co., Inc., v. Werthan-Morgan-Hamilton Bag Co.*

1,411,227, L. A. Suckoff, Spring-cushion construction, filed July 31, 1928, D. C. N. J. (Trenton), Doc. E 3481, *L. A. Suckoff et al. v. Trenton Spring Products Co.*

1,414,612. (See 1,239,425.)

1,425,498, R. F. Greenwood, Cigar and cigarette holder, D. C., S. D. N. Y., Doc. E 25/38, *Apex Specialties Corp. v. Presto Ejector, Inc., et al.* Dismissed under rule 57 Apr. 14, 1925. (To correct error in 336 O. G., page 6, originally reported as 1,425,495.)

1,426,754. (See 1,173,079.)

1,429,217. (See 1,239,425.)

1,447,982, E. F. Hennefer, Ear tag, C. C. A., 8th Cir. (St. Louis), Doc. 8131, *Jensen-Salsbery Laboratories, Inc., v. Salt Lake Stamp Co.* Affirmed Aug. 28, 1928.

1,456,528, H. D. Arnold, Electric discharge device; 1,459,412, A. M. Nicolson, Thermionic translating device, filed Sept. 7, 1928, D. C., S. D. N. Y., Doc. E 46/308, *Radio Corp. of America et al. v. Gold Seal Electrical Co., Inc.*

1,459,412. (See 1,456,528.)

1,464,683, N. C. Ovaitt, Counter attachment for accounting machines, D. C. N. J. (Trenton), Doc. E 2232, *N. C. Ovaitt v. Anderson Office Equipment Co. et al.* Decree rendered July 27, 1927; reinstated June 13, 1928.

1,470,524. (See 1,505,592.)

1,482,005. (See 1,380,710.)

1,497,005, W. Dubilier, Electrical condenser, D. C. N. J. (Trenton), Doc. E 1173, *Dubilier Condenser & Radio Corp. v. Splitdorf Electrical Co.* Order for discontinuance July 31, 1928.

1,505,592, F. W. Epperson, Frozen confectionery; 1,470,524, H. B. Burt, Process of making frozen confection, filed Aug. 7, 1928, D. C. N. J. (Trenton), Doc. E 3483, *Popsicle Corp. et al. v. S. Kaplan.*

1,506,229, O. H. Ensign, Carburetor, D. C., S. D. N. Y., Doc. E 36/62, *Ensign Carburetor Co. v. Zenith-Detroit Corp.* Dismissed Sept. 4, 1928.

1,515,770. (See 1,380,710.)

1,539,701, E. C. Sutherland, Process of bleaching, preserving, and increasing the baking qualities of flour, filed Aug. 30, 1928, D. C. Kans., 1st Div., Doc. 1165–N, *Novadel Process Corp. v. Western Star Mill Co.*

1,554,722. (See 1,380,710.)

1,556,901. (See 1,040,349.)

1,557,207. (See 1,040,349.)

1,559,234, R. G. Fleming, Smoker's stand; T. M. 165,697, The Smokador Co., Ash receiver, filed June 27, 1928, D. C., N. J. (Trenton), Doc. E 3330, *The Smokador Mfg. Co., Inc., v. Meyer Bros.*

1,593,339. (See 1,040,349.)

1,600,728. (See 1,380,710.)

1,616,767, H. S. Stevens, Floor polisher, filed Aug. 27, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–29–J, *D. Durham v. Peerless Products Co.*

1,627,382, M. Golomb, Protective device for boxers, D. C., S. D. N. Y., Doc. E 45/224, *M. Golomb et al. (Everlast Sporting Goods Mfg. Co.) v. S. C. & E. Mfg. Co., Inc.* Decree pro confesso sustaining patent and adjudging infringement Sept. 5, 1928.

1,634,316, E. Becher, Massaging heating roller, appeal filed Aug. 28, 1928, C. C. A., 2d Cir., *E. Becher v. Contours Laboratories, Inc., et al.*

1,641,798, E. Bocchino, Safety device for fire escapes, D. C. N. J. (Trenton), Doc. E 3478, *Safety Device Fire Escape Co., Inc., v. B. Miller et al.* Order of discontinuance Aug. 10, 1928. Same, filed July 24, 1928, D. C. N. J. (Trenton), Doc. E 3477, *Safety Device Fire Escape Co., Inc., v. M. H. Beam et al.*

1,646,580. (See 1,678,499.)

1,653,841, H. W. Carlough, Hair-waving pad, D. C. N. J. (Trenton), Doc. E 3120, *Keen Waving Co., Inc., v. R. Odell & Sons Co.* Final decree June 18, 1928.

1,657,528. (See 1,678,499.)

1,673,727, L. V. Aronson, Cigar lighter; 1,290,011, Hirsch & Hirsch, Process of making castings of rare-earth metals and their alloys, filed June 25, 1928, D. C. N. J. (Trenton), Doc. E 3323, *Evans Case Co. v. Art Metal Works, Inc.*

1,673,741, D. F. Fesler, Lubricating system, included by counter claim in suit filed Feb. 24, 1928, D. C. Del., Doc. E 675, *Auto Research Corp. et al. v. The Bassick Mfg. Co.*

1,678,499, 1,646,580, F. K. Eastman, Doorcheck; 1,657,528, same, Doorcheck strap, filed Aug. 29, 1928, D. C., N. D. Ohio, E. Div., Doc. 2664, *The Concealed Door Check Co. v. The Firestone Tire & Rubber Co.*

Des. 67,018. (See 1,214,168.)

Des. 67,018, J. Denaro, Edible container, D. C., S. D. N. Y., Doc. E 44/298, *American Pastry Products Corp. v.*

M. Shapiro et al. Consent decree sustaining patent and adjudging infringement Aug. 29, 1928.

Des. 69,569, Des. 72,596, R. G. Cowan, Flower holder; Des. 72,638, A. W. Sinz, same, D. C., S. D. N. Y., Doc. E 44/222, *Cowan Pottery Studio, Inc.*, v. *L. D. Bloch & Co.* Consent decree sustaining patents 69,569 and 72,638 and adjudging infringement Sept. 6, 1928.

Des. 69,980, Des. 70,208, G. N. Allen, Coffeepot or similar article, D. C., S. D. N. Y., Doc. E 46/235, *Oneida Community, Ltd.*, v. *T. Haruta et al.* (*Haruta & Co.*). Patents held valid and infringed, case discontinued as to T. Fuse, Sept. 8, 1928.

Des. 70,208. (See Des. 69,980.)

Des. 72,596. (See Des. 69,569.)

Des. 72,638. (See Des. 69,569.)

Re. 14,378. (See 1,230,425.)

T. M. 165,697. (See 1,559,234.)

Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Oct. 16, 1928.*

The Cafico Chemical Company Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of The Cafico Chemical Company Inc., of 154 Pearl Street, Pittsburgh, Pa., No. 158,911, dated September 19, 1922, and the notice of such proceeding sent by registered mail to the said The Cafico Chemical Company Inc. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Cafico Chemical Company Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,614,133, E. W. Kellogg, Vibration damper, decided September 22, 1928, claims 1, 2, 3, 4, 5, 6, and 8.

Pat. 1,669,072, G. H. Vinette, Vehicle brake, decided September 22, 1928, claim 2.

Final decision in interference has been rendered against the following trade-mark:

T. M. 92,394, Eggs, G. Bowles, Westport, Conn. Registered July 8, 1913. Decided September 18, 1928.

Patent Appeals in the Court of Appeals of the District of Columbia—November Call.

U. S. PATENT OFFICE, *Washington, Oct. 13, 1928.*

This office is to-day in receipt of a letter from the clerk of the Court of Appeals of the District of Columbia reading as follows (see notice in GAZETTE of October 16, 1928, 375 O. G. 475):

The court has instructed me to advise you that there will be 20 cases on the patent appeals docket assigned for hearing on the second Monday of November next.

The notices required by Rule XXII of the court of appeals will be sent to the parties in due course.

THOMAS E. ROBERTSON,
Commissioner.

Adjudicated Patents.

(D. C. Conn.) Knight patent, No. 976,267, for golf club with tubular metallic shaft as limited to torsionless structure, claims 3 and 4 *Held* valid but not infringed. *Knight v. Union Hardware Co.*, 27 F. (2d) 946.

(C. C. A. N. Y.) Douglas patent, No. 1,082,682, for concentrated compound containing soluble pectin for jelly-forming substances, *Held* valid and infringed. *Douglas Pectin Corporation v. Armour & Co.*, 27 F. (2d) 814.

(C. C. A. N. Y.) Dwight patent, No. 1,102,982, for ore-sintering apparatus, claims 3 and 4 *Held* not infringed. *Dwight & Lloyd Sintering Co. v. Greenawalt*, 27 F. (2d) 823.

(C. C. A. Wash.) McMichael patent, No. 1,127,660, for method and apparatus for transporting and treating concrete, claims 1, 2, 17, 18, 24, 29, and 35 *Held* invalid and not infringed. *Concrete Mixing & Conveying Co. v. R. C. Storrie & Co.*, 27 F. (2d) 838.

(C. C. A. Ill.) King patent, No. 1,158,058, for centrifugal oil burner, claims 1, 2, 5, and 10 *Held* valid and infringed. *Hardinge Bros. v. Marr Oil Heat Mach. Corporation*, 27 F. (2d) 779.

(C. C. A. N. Y.) Douglas patent, No. 1,235,666, for jelly-making product and process of making it, *Held* valid and infringed. *Douglas Pectin Corporation v. Armour & Co.*, 27 F. (2d) 814.

(C. C. A. N. Y.) Dwight patent, No. 1,254,316, for ore-treating process, claims 1, 4, 6, and 8 *Held* invalid. *Dwight & Lloyd Sintering Co. v. Greenawalt*, 27 F. (2d) 823.

(D. C. Conn.) Whelan patent, No. 1,273,703, for closet seat with cemented layers of wood veneer, *Held* valid but not infringed. *Brunswick-Balke-Collender Co. v. Seamless Rubber Co.*, 27 F. (2d) 925.

(C. C. A. N. Y.) Douglas patent, No. 1,304,166, for decreasing boiling time for making jelly by use of pectin, *Held* valid and infringed. *Douglas Pectin Corporation v. Armour & Co.*, 27 F. (2d) 814.

(C. C. A. N. Y.) Dwight patent, No. 1,348,407, for ore-treating apparatus, claims 13, 21, 48, and 49 *Held* not infringed. *Dwight & Lloyd Sintering Co. v. Greenawalt*, 27 F. (2d) 823.

(C. C. A. N. Y.) Dwight patent, No. 1,433,349, for ore-sintering apparatus, claims 1, 2, and 3 *Held* invalid. *Id.*

(C. C. A. N. Y.) Dwight patent, No. 1,433,350, for ore-sintering apparatus, claims 8, 9 and 10 *Held* invalid because patent granted on renewal of a divisional application renewed more than two years after the first allowance of the original application.

(C. C. A. N. Y.) Dwight patent, No. 1,433,352, for ore-treating apparatus, claims 1 and 5 *Held* invalid. Id.

(C. C. A. N. Y.) Langsdorf patent, No. 1,447,090, for improvements in necktics, claims 1, 2, and 4 *Held* valid and infringed. *Franc-Strohmenger & Cowan v. Arthur Siegman, Inc.*, 27 F. (2d) 785.

(D. C. Conn.) Hawie patent, No. 1,497,273, for rustless back buckle, claims 2, 3, 4, 6, and 7 *Held* valid and infringed. *Hawie Mfg. Co. v. Hatheway Mfg. Co.*, 27 F. (2d) 937.

(D. C. Mass.) Stanczyk patent, No. 1,551,069, for automatic blowtorch, claims 14, 15, and 16 *Held* infringed. *Lenk v. Lasher-Peerblow Co.*, 27 F. (2d) 958.

(D. C. Conn.) Bell patent, No. 1,565,305, for fuel economizer in steam-generating plant, claim 2 *Held* infringed *Power Specialty Co. v. Connecticut Light & Power Co.*, 27 F. (2d) 928.

(D. C. Conn.) Fleming patent, No. 1,646,086, relating to ash stands, claims 1 to 6 *Held* invalid. *Smokador Mfg. Co. v. Tubular Products Co.*, 27 F. (2d) 948.

(D. C. Conn.) Hawie reissue patent, No. 15,982, for improvement in rustless buckle, *Held* valid and infringed. *Hawie Mfg. Co. v. Hatheway Mfg. Co.*, 27 F. (2d) 937.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 30, 1928.

[VOL. 375. No. 5.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 268,971. CO-OPERATIVE GRANGE LEAGUE FEDERATION EXCHANGE, INC., Syracuse, N. Y. Filed July 2, 1928.

G. L. F.

For Garden Seeds, Vegetable Seeds, and Lawn and Golf-course Seeds.

Claims use since Apr. 2, 1924.

Ser. No. 269,539. HERF L. WEINSTEIN, New York, N. Y. Filed July 12, 1928.



The word "Sharkskin" is disclaimed apart from the other features of mark in the drawing. The lining shown in the drawing represents shading only.

For Shark Skins.

Claims use since Apr. 7, 1928.

Ser. No. 269,722. EASTERN COAL COMPANY, Chicago, Ill. Filed July 17, 1928.



The lining shown on the drawing is for shading purposes only.

For Coal.

Claims use since February, 1916.

Ser. No. 270,409. AMERICAN TARSO COMPANY, INC., New York, N. Y. Filed Aug. 1, 1928.

TARSO

For Leather.

Claims use since May 1, 1928.

CLASS 2.

Receptacles.

Ser. No. 247,022. ANNA C. COY, doing business as Coy Manufacturing Works, Chicago, Ill. Filed July 25, 1925.

COY TILTING

The word "Tilting" is disclaimed apart from the mark as shown in the drawing.
For Mail Boxes.
Claims use since Mar. 8, 1924.

Ser. No. 268,814. THE ROCHESTER FOLDING BOX CO., Rochester, N. Y. Filed June 28, 1928.

FIBERHIDE

For Paper Boxes and Corrugated Shipping Cases.
Claims use since May 28, 1928.

Ser. No. 272,168. MAUSER BARREL CO. INC., New York, N. Y. Filed Sept. 10, 1928.

MAUSER

For Steel Barrels and Steel Drums.
Claims use since February, 1926.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 264,725. KORITE, INC., Boston, Mass. Filed Apr. 12, 1928.

KORITE

For Leather Preservative.
Claims use since Nov. 2, 1920.

Ser. No. 268,957. A & B LABORATORIES, Syracuse, N. Y. Filed July 2, 1928.

CLEANARCO

For Treated Cloth for Automobile Dry Washing.
Claims use since April 1, 1927.

Ser. No. 268,999. PERFECTO MANUFACTURING CO., Chicago, Ill. Filed July 2, 1928.

PERFECTO

For Automobile Top Dressing.
Claims use since June 1, 1928.

Ser. No. 270,346. ORGAN-OXIDE PRODUCTS COMPANY, Detroit, Mich. Filed July 30, 1928.

OROXO

No claim is made to the representation of the grinding wheel shown on the drawing apart from the mark shown.
For Whetstones, Grindstones, Sandpaper, Buffers, Abrasive Grinding Wheels, Polishing Wheels, and Metal Polish.
Claims use since Jan. 2, 1928.

Ser. No. 270,347. ORGAN-OXIDE PRODUCTS COMPANY, Detroit, Mich. Filed July 30, 1928.

ORGAN-OXIDE

No claim is made to the representation of a grinding wheel on the drawing nor to the word "Oxide" apart from the mark as shown.
For Whetstones, Grindstones, Sandpaper, Buffers, Abrasive Grinding Wheels, Polishing Wheels, and Metal Polish.
Claims use since Jan. 2, 1928.

Ser. No. 271,905. KATHERINE M. RISCH, doing business as Ever-Ready Chemical Co., St. Louis, Mo. Filed Sept. 4, 1928.

ERCCO

For Cleaning Fluid Used in Dry Cleaning.
Claims use since on or about June 15, 1928.

Ser. No. 272,165. MADELON MODES, INC., New York, N. Y. Filed Sept. 10, 1928.

Madelon

For Soaps, Particularly Hand Soaps, Bath Soaps, and Toilet Soaps.
Claims use since July 20, 1928.

Ser. No. 272,231. STERN BROTHERS, New York, N. Y. Filed Sept. 11, 1928.

PAMELA

For Toilet Soaps.
Claims use since Jan. 9, 1928.

Ser. No. 272,305. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Sept. 12, 1928.

VELVET

For Soap.
Claims use since Nov. 16, 1882.

Ser. No. 272,532. ATHLETIC TEA COMPANY, INC., St. Louis, Mo. Filed Sept. 17, 1928.

HOME DELIGHT

For Soap Powders.
Claims use since Sept. 1, 1928.

Ser. No. 272,572. JULES OPPENHEIM, doing business as Western Pulleystone Company, Chicago, Ill. Filed Sept. 17, 1928.

"PULLEYSTONE"

For Compound for Preventing or Reducing Belt Slippage.
Claims use since 1915.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 242,105. PAUL PETER MÜLHENS, doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Dec. 29, 1926.



The color lines in the drawing represent the mark as produced in blue and gold. The words "Lavender Water, Manufactured by," and "Glockengasse Cologne o/RH" are hereby disclaimed.
For Lavender Water.
Claims use since March, 1926.

Ser. No. 257,968. CHEMISCHE FABRIK PYRGOS G. M. B. H., Radebeul, Germany. Filed Nov. 23, 1927.

Viarasa

For Weed-Killing Substances.
Claims use since Apr. 16, 1923.

Ser. No. 259,012. EST. HENRY C. MINER, INC., New York, N. Y. Filed Dec. 16, 1927.



No claim is made to the words "Coconut Milk" apart from the other elements of the trade-mark.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Dec. 1, 1927.

Ser. No. 261,583. IRVING E. MOORE, doing business as Edward F. Moore, Toledo, Ohio. Filed Feb. 11, 1928.



The portrait appearing on the drawing is that of applicant's father.

For Medicine for Rheumatism.

Claims use since 1923.

Ser. No. 262,211. CURRAN LABORATORIES, INC., New York, N. Y. Filed Feb. 25, 1928.



The colors red and blue indicated in the lining are disclaimed apart from the mark as shown.

For Cosmetics—Namely, Nail Polish, Cuticle Remover, and Nail-Polish Remover.

Claims use since September, 1924.

Ser. No. 262,420. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Feb. 29, 1928.

VARSOL

For Hydrocarbon Solvents for Chemical, Medicinal, and Pharmaceutical Purposes.

Claims use since Jan. 4, 1928.

Ser. No. 263,931. CURRAN LABORATORIES, INC., New York, N. Y. Filed Mar. 29, 1928.

John P. Curran

The mark sought to be registered is a facsimile of the signature of John P. Curran, president of the Curran Laboratories, Inc.

For Cosmetic—Namely, Hairdressing.

Claims use since September, 1924.

Ser. No. 263,932. CURRAN LABORATORIES, INC., New York, N. Y. Filed Mar. 29, 1928.



The name "John P. Curran" forming a feature of the mark sought to be registered is a facsimile of the signature of John P. Curran, president of the Curran Laboratories, Inc. The lining shown on the drawing is used for shading purposes only.

For Cosmetic—Namely, Hairdressing.

Claims use since September, 1924.

Ser. No. 266,199. EDWARD K. FUJIMOTO, doing business as Fujimoto Company, San Francisco, Calif. Filed May 10, 1928.



No claim is made to the words "Rein Salz" apart from the mark as shown.

For Salt Water Used as a General Tonic.

Claims use since Feb. 6, 1928.

Ser. No. 266,589. FOLEY DOG SUPPLIES, INC., Philadelphia, Pa. Filed May 18, 1928.

ARBEST

For Dog Medicines—Namely, Worm Pills, Tonic and Condition Pills, Intestinal Antiseptic, Mineral Vitalizer, and Preparations for Treatment of Sexual Impotence and Mange and Eczema.

Claims use since Apr. 28, 1928.

Ser. No. 267,923. BARBARA GOULD, LTD., Rochester and New York, N. Y. Filed June 13, 1928.

Barbara Gould

The trade-mark "Barbara Gould" is in the handwriting of Olga Peterson.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Apr. 19, 1928.

Ser. No. 268,823. S. GRANT STANNARD, Long Beach, Calif. Filed June 28, 1928.

C.P.

For Medicine in Tablet Form for the Treatment of Headache.

Claims use since Aug. 9, 1905.

Ser. No. 269,865. THE SOLVAY PROCESS COMPANY, Solvay, N. Y. Filed July 19, 1928. Under section 5b of the act of 1905 as amended in 1920.

SOLVAY

For Inorganic Chemicals, as follows: Sodium Compounds, Calcium Compounds, Potassium Compounds, Ammonia Compounds, Hydrochloric Acid; and for Organic Chemicals, as Follows: Benzaldehyde, Benzyl Chloride, and Chlorinated Benzol Compounds.

Claims use since 1884 as to sodium compounds and calcium compounds; to potassium compounds and hydrochloric acid since April, 1927; to ammonia compounds, benzaldehyde, benzyl chloride, and chlorinated benzol compounds since 1921.

Ser. No. 269,945. LEE CLARIDGE, doing business as Warenite Co., St. Louis, Mo. Filed July 21, 1928.

WARRENITE



For Liquid for External Use for Banishing Brash and Cream from the Plumage of All White Birds.

Claims use since Dec. 15, 1922.

Ser. No. 270,191. GEORGE KREMER, New York, N. Y. Filed July 26, 1928.

Kremer's Youth

For Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Face Creams, Obesity Creams, and Refreshing Creams.
Claims use since May 23, 1928.

Ser. No. 270,206. SALAMANDER PAD COMPANY, INCORPORATED, Martinsville, Ind. Filed July 26, 1928.

SALAMANDER

For Medicated Pads for Application Against the Human Body for Rheumatism, Lumbago, Kidneys, Nervousness, Deafness, Neuritis, Asthma, Arthritis, Sciatica, Liver and Lung Congestions.
Claims use since July 1, 1926.

Ser. No. 270,234. BROTHERS CORPORATION, New York, N. Y. Filed July 27, 1928.

Brothers

The lining on the drawing is used for shading only.
For Analgesic Sedative and Antipyretic, Also on a Brand of Bile Salts.
Claims use since Oct. 11, 1927.

Ser. No. 270,393. MORRIS POTASHNIKOFF, doing business as Potash Pharmaproducts Company, Brooklyn, N. Y. Filed July 31, 1928.

CORN-GON

The word "Corn" is disclaimed apart from the mark as shown in the drawing.
For Pharmaceutical Preparation Compounded as a Liquid and Used in the Treatment of Corns.
Claims use since 1916.

Ser. No. 270,456. ARNOLD, CONSTABLE & CO., INC., doing business as Arnold Constable, New York, N. Y. Filed Aug. 2, 1928.

Le Premier Baiser

For Perfumes and Cosmetics—Namely, Rouge, Lip Stick, and Face Powders.
Claims use since Jan. 1, 1926.

Ser. No. 270,557. O-NOX LABORATORIES, Chicago, Ill. Filed Aug. 3, 1928.

ROSE-O-ZONE

For Chlorine Crystals.
Claims use since July 9, 1928.

Ser. No. 270,591. WILLIAM JOHN HARTMANN, doing business as Hartmann Chemical Co., Pittsburgh, Pa. Filed Aug. 4, 1928.

HARTMANN'S

For Cleansing Cold Cream, Vanishing Cream, and Salve for the Treatment of Boils, Carbuncles, Sores, Cuts, and Other Skin Diseases for Local Application.
Claims use since Mar. 22, 1928.

Ser. No. 270,691. GEORGE DIDASKALOU, Manchester, N. H. Filed Aug. 7, 1928.



THE SPAZDHORTON

The picture appearing in the drawing is a pen and ink portrait of applicant.
For Preparation for Rupture, Consisting of a Compound of Roots and Herbs.
Claims use since July 1, 1928.

Ser. No. 270,922. THE EDLIS BARBERS' SUPPLY CO., Pittsburgh, Pa. Filed Aug. 13, 1928.

COOLINE

For Face Cream and Skin Purifier.
Claims use since January, 1893.

Ser. No. 270,942. JOSEPH A. RIEDISSER, doing business as R. & H. Distributing Company, St. Louis, Mo. Filed Aug. 13, 1928.

R. & H.

Insecticide Kills All Insects

Kills Roaches, Waterbugs, Flies, Mosquitoes, Bed bugs, Ants, Fleas, Etc.

Always Spray With R & H

R. & H. Distributing Co.
4140 Shreve Avenue
St. Louis, Mo.
Phone, Olive 6064

All the wording except "R. & H." and "R. & H. Distributing Company" is disclaimed apart from the mark shown.
For Chemicals, Used to Kill Roaches, Flies, Mosquitoes, Bedbugs, Ants, Fleas, and Other Vermin.
Claims use since May 15, 1928.

Ser. No. 270,952. J. H. BEREMAN, doing business as Stillman Freckle Cream Co., Aurora, Ill. Filed Aug. 13, 1928.

BELLA AURORA

For Toilet Preparations—Namely, Face Powder and Face Creams.
Claims use since about 1898.

Ser. No. 270,992. CHARLES R. EDWARDS, Baltimore, Md. Filed Aug. 14, 1928.



The drawing is lined to indicate the colors red and yellow.
For Salve for Use in the Treatment of Skin Irritations, Boils, Bruises, Burns, Callouses, Carbuncles, Corns, Coughs, Colds, Cuts, Eczema, Lacerations, Piles, Pimples, Rashes, Ringworms, Scalds, Scrofula, Scratches, Sore Eyes, Sore Throat, Sunburn, and Tetter.
Claims use since Jan. 18, 1927.

Ser. No. 271,025. LEEDS K. FIELD, doing business as Lee-Mar Co., New York, N. Y. Filed Aug. 15, 1928.

LEE-MAR

For Liniment to be Used Externally in the Treatment of Rheumatism, Lumbago, Neuralgia, Neuritis, Sprains, Stiff Joints, and Sore Muscles.
Claims use since July 20, 1928.

Ser. No. 271,072. MORRIS MINDLIN, doing business as Mem Block Distributing Co. and Empire Cutlery Co., New York, N. Y. Filed Aug. 15, 1928.

MEM BLOC

The word "Bloc" is disclaimed apart from the mark shown in the drawing.
For Astringent.
Claims use since January, 1926.

Ser. No. 271,297. A. M. DIXON, doing business as The A. M. Dixon Co., St. Joseph, Mo. Filed Aug. 20, 1928.

Holpen

For Liniment to be Used for Treating Rheumatism, Neuritis, Aching Joints, Sprains, Lumbago, and Sciatica.
Claims use since July 1, 1928.

Ser. No. 271,322. STEELMAN & ARCHER, Philadelphia, Pa. Filed Aug. 20, 1928.

DOMESTIC

For Soap Liniment, Soda Mint, Tincture Arnica, Tincture Myrrh, Tincture Benzoin, Tincture Iron, Tincture Green Soap, Aromatic Spirit Ammonia, Bateman's Drops, Turlington's Balsam, Balsam de Maltha, Paregoric, Peppermint, Turpentine for Medicinal Use, Brown Mixture (without Opium), Brown Mixture (with Opium), Nitre, Camphor, Syrup of Squill, Syrup Ipecac, Syrup Rhubarb, Rhubarb and Soda Mixture, Spiced Syrup Rhubarb, Camphorated Oil, Pure Sweet Oil, Castor Oil, Rose Water, Glycerin, Rose Water and Glycerin, Rose Water and Glycerin with Benzoin, Brown Mixture and Ammonia, Witch-Hazel, Mineral Oil for Medicinal Use, Limewater, Tincture Larkspur, Chloroform Liniment, Syrup Hypo Phosphate, Syrup Buckthorn, and S. & A. Headache Tablets.
Claims use since Mar. 1, 1927.

Ser. No. 271,375. WILLIAM M. BOWSER, doing business as The Bowser Medicine Company, Marysville, Ohio. Filed Aug. 22, 1928.

Tan-a-wa

For System Cleanser and Tonic Containing Herbs, Roots, and Bark.
Claims use since Feb. 1, 1925.

Ser. No. 271,456. JAY H. SCHMIDT, INC., New York, N. Y. Filed Aug. 23, 1928.

jix

For Nail Polish and Liquid Nail-Polish Remover.
Claims use since July 18, 1928.

Ser. No. 271,612. IRVING MCEWEN, Omaha, Nebr. Filed Aug. 27, 1928.

GARDENAIDE

For Garden Insecticide Preparation.
Claims use since Aug. 15, 1928.

Ser. No. 271,702. WALTER LILES, doing business as Vitalime Co., Richmond, Va. Filed Aug. 30, 1928.

VITALIME

For Medicinal Preparation in the Form of Tablets, Wafers, and Powder for the Treatment of Diseases Resulting from Low Calcium Content, Such as Rickets, Decaying Teeth, or for Calcium Deficiency in Bone Structure, Also for Preventing Nausea and the Depletion of the Stored Calcium in the Tissues of the Prospective Mother During Pregnancy.
Claims use since July 8, 1927.

Ser. No. 271,793. EDWARD T. BEISER COMPANY, INC., Riverside, Conn. Filed Aug. 31, 1928.

BLACK TULIP

For Perfumes and Natural and Synthetic Liquid Flower Oils Suitable for All Perfumery Uses, Astringents, Astringent Cerates Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eye Drops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentrifices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, and Toilet Waters.
Claims use since Apr. 25, 1924.

Ser. No. 271,870. THE AIDO COMPANY, Salamanca, N. Y. Filed Sept. 4, 1928.

AIDO

For Preparation for Use in the Treatment of Cramps, Chills, and Indigestion.
Claims use since May, 1923.

Ser. No. 271,911. THE WEBER MEDICAL TEA COMPANY, Brooklyn, N. Y. Filed Sept. 4, 1928.

THREE KING

For Laxative Preparations.
Claims use since 1888.

Ser. No. 272,053. WALTER H. PLANT, doing business as No-Dus Company, Columbus, Ohio. Filed Sept. 7, 1928.

NO-DUS

For Deliquescent Compound for Use in Allaying Dust in Fuels, Consisting of Calcium Chloride in an Aqueous Solution.
Claims use since Aug. 1, 1928.

Ser. No. 272,057. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Sept. 7, 1928.

LETHANE

For Insecticides, Fungicides, or Disinfectants.
Claims use since June 12, 1928.

Ser. No. 272,090. ARWELL PRODUCTS COMPANY, Waukegan, Ill. Filed Sept. 8, 1928.

KLOROMIST

For Deodorant and Insecticide.
Claims use since Aug. 21, 1928.

Ser. No. 272,288. LA SALLE LABORATORIES, INC., Detroit, Mich. Filed Sept. 12, 1928.

NURAN

For Tablets and Capsules Composed of Antipyretic, Analgesic, Antirheumatic, Acid Acetylsalicylic, Phenacetine, Camphor Monobromate, Caffeine Salicylate for the Relief of Pain.
Claims use since May 1, 1928.

Ser. No. 272,326. FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed Sept. 13, 1928.

KARCENTRATE

For Concentrate Designed to Contain the Water Soluble Constituents of the Mammalian Heart, Freed from Connective Tissues, Associated Lipoid and Protein, and Intended for Use in the Treatment of Anemia.
Claims use since Aug. 1, 1928.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 272,415. LINCOLN PIPE WORKS, Brooklyn, N. Y. Filed Sept. 14, 1928.



BROWN DERBY

For Smoking Pipes.
Claims use since June 15, 1928.

Ser. No. 272,441. THE SPRINGFIELD LEATHER PRODUCTS COMPANY, Springfield, Ohio. Filed Sept. 14, 1928.

CAMEO

For Cigarette Cases.
Claims use since July 1, 1922.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 270,169. CARLOWITZ & CO., Hamburg, Germany, and Shanghai, China. Filed July 26, 1928.



No claim is made to the exclusive use of the words "Chop Registered" apart from the mark shown in the drawing. The English translation of the Chinese characters is "Li Ho Yang Hang" being the Hong name of Carlowitz & Co.
For Firecrackers.
Claims use since about 1900.

Ser. No. 272,609. THE GRASSELLI POWDER COMPANY, Cleveland, Ohio. Filed Sept. 18, 1928.

ROXITE

For Explosives.
Claims use since about May 9, 1928.

Ser. No. 272,622. SAFEWAY STORES, INC., Los Angeles, Calif. Filed Sept. 18, 1928.

HIGHWAY

For Matches.
Claims use since Aug. 20, 1928.

Ser. No. 272,787. AMTORG TRADING CORPORATION, New York, N. Y. Filed Sept. 22, 1928.



For Matches.
Claims use since about Aug. 1, 1928.

CLASS 11.

Inks and Inking Materials.

Ser. No. 257,145. CARL FR. BRAUER, Stettin, Germany, assignor to Carl Fr. Brauer G. m. b. H., Stettin, Germany, a Limited Company of Germany. Filed Nov. 7, 1927.

ARLAC

For Inked Ribbons for Typewriting and Calculating Machines and for Weighing and Controlling Apparatus, Ink Pads, Rubber-Stamp Pads, Carbon Paper, Pen and Pencil Carbons; Duplicating, Writing, Printing, Drawing, Lithographing, Stenciling, and Stamping Inks; Ink Powder, Colours for Inks and Stamp Pads, Inking Material for Correcting Errors, Inking Materials for Developing Insufficient or Dim Types or Figures on Stencil Sheets.
Claims use since 1909.

CLASS 12.

Construction Materials.

Ser. No. 262,581. UNITED STATES FOIL COMPANY, Louisville, Ky. Filed Mar. 3, 1928.



For Metal, Felt, Metal and Felt, and Composition Roofing.
Claims use since about Jan. 1, 1928.

Ser. No. 268,992. MASONITE CORPORATION, Laurel, Miss. Filed July 2, 1928.

QUARTRBOARD

The word "Board" is disclaimed apart from the mark as shown.
For Fibre Board, Thermal Insulating Board, Composite Board, Construction Board, Hard Board, and Synthetic Lumber or Artificial Lumber.
Claims use since May 13, 1927.

Ser. No. 270,921. NEWELL A. EDDY, Bay City, Mich. Filed Aug. 13, 1928.

HABITANT

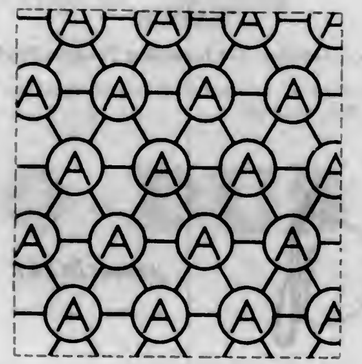
For Corner Trellises, Lawn Trellises, Arbors, Arbor Gates, and Wood Fencing.
Claims use since Mar. 1, 1924.

Ser. No. 271,449. MCLEOD FURNITURE COMPANY, Laurel, Miss. Filed Aug. 23, 1928.

Laurite

For Composite Boards.
Claims use since May 30, 1928.

Ser. No. 271,791. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Filed Aug. 31, 1928.



For Floor Tiling in the Form of Individual Tiles Containing Cork and/or Wood Flour.
Claims use since Aug. 21, 1928.

Ser. No. 271,834. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Aug. 31, 1928.

Aridize

For Plaster.
Claims use since Mar. 1, 1921.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 269,681. METAL UTILITIES COMPANY, Indianapolis, Ind. Filed July 16, 1928.



No claim is made to the outline of the goods apart from the mark as shown.
For Metal Construction Cleats for Joining Wood and Steel Members.
Claims use since June 1, 1928.

Ser. No. 271,964. FLEURACE SEAT COMPANY, Spring Lake, Mich. Filed Sept. 6, 1928.

Fleurace

For Plumber's Woodwork—Namely, Toilet Seats and Tanks.
Claims use since June 15, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 261,637. KLOSTER STEEL CORPORATION, Chicago, Ill. Filed Feb. 13, 1928.

"PURE-ORE"

No claim is made to the exclusive use of the word "Pure" apart from the mark shown.
For Tool Steel.
Claims use since Dec. 14, 1927.

Ser. No. 271,243. GENERAL ALLOYS COMPANY, Boston, Mass. Filed Aug. 18, 1928.

ECONOMET

For Castings of Metal Alloy.
Claims use since Nov. 18, 1927.

Ser. No. 271,244. GENERAL ALLOYS COMPANY, Boston, Mass. Filed Aug. 18, 1928.

QALLOY

The use of the word "Alloy" is disclaimed apart from the mark shown in the drawing.
For Castings of Metal Alloy.
Claims use since Feb. 9, 1923.

Ser. No. 271,245. GENERAL ALLOYS COMPANY, Boston, Mass. Filed Aug. 18, 1928.

GENALLOY

For Castings of Metal Alloy.
Claims use since Dec. 19, 1927.

CLASS 15.

Oils and Greases.

Ser. No. 269,946. CROWN CENTRAL PETROLEUM CORPORATION, Houston, Tex. Filed July 21, 1928.



The drawing is lined for color, the inner field being green and the outer field yellow. The words "Crown Motor Oils" are in green upon yellow field. The diametric bar is lined for red, and the letters of the words "Non Carbon" are white. No claim is made to the words "Non Carbon Motor Oils" apart from the mark shown in the drawings.
For Motor Oils for Lubricating Purposes.
Claims use since on or about May 19, 1928.

Ser. No. 270,755. THE PURE OIL COMPANY, Chicago, Ill. Filed Aug. 23, 1928.

NULUBE

For Hydrocarbon Motor Fuel Oils, Lubricating Oils, and Greases, and Engine, Dynamo, Spindle, Turbine, Gas-Engine, Crank Case, and Compressor Lubricants.
Claims use since Sept. 10, 1924.

Ser. No. 270,961. EMEROL MANUFACTURING CO., New York, N. Y. Filed Aug. 13, 1928.

MARVEL MYSTERY

For Lubricating and Penetrating Oil.
Claims use since Nov. 19, 1925.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 271,867. YARNALL PAINT COMPANY, Philadelphia, Pa. Filed Sept. 1, 1928.

SPE-D-NAMEL

For Paint Enamel.
Claims use since June 23, 1928.

Ser. No. 272,332. GOHEEN CORPORATION OF NEW JERSEY, Newark, N. J. Filed Sept. 13, 1928.

ALUMIKOTE

For Ready-Mixed Paint, Specifically an Aluminum Paint.
Claims use since November, 1926.

CLASS 17.

Tobacco Products.

Ser. No. 270,077. DE NOBILI CIGAR COMPANY, New York, N. Y. Filed July 24, 1928.



For Cigars.
Claims use since May 1, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 253,725. EMBLEM MANUFACTURING COMPANY, Angola, N. Y. Filed Aug. 19, 1927.



For Bicycles.
Claims use since Jan. 1, 1912.

Ser. No. 271,738. FRANK VALENTINE BORICK, New York, N. Y. Filed Aug. 30, 1928.



No claim is made to the words "Motor Craft" or the representation of a motor boat.
For Pleasure Boats—Namely, Cruisers, Runabouts, Speed Boats, and Yacht Tenders.
Claims use since December, 1926.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 272,765. LINCRUSTA-WALTON COMPANY, Hackensack, N. J. Filed Sept. 21, 1928.

OIL-TEXD

For Wall Covering Comprising Plastic-Coated Paper in Sheet Form.
Claims use since on or about Aug. 1, 1928.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 261,234. BELDEN MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 6, 1928.



The mark consists in an orange covering or braiding having woven therein two parallel and adjacent strands or threads of black, forming a broken black spiral stripe. No claim is made to the representation of the goods.
For Electrical Conductors, Ignition Cables, and Starter Cables.
Claims use since Dec. 15, 1927.

Ser. No. 269,797. JOSEPH W. NICOMEDE, doing business as Nicomede Music Co., Altoona, Pa. Filed July 18, 1928.

THE NICOMEDE RAINBOW FLASHER

No claim is made to the word "Flasher" apart from the mark shown in the drawing. The lines in drawing do not denote color.
For Flashing Electric Lights Adapted for Installation Behind the Heads of Banjos, Drums, and Similar Musical Instruments for Decorative and Other Purposes.
Claims use since Apr. 16, 1928.

Ser. No. 270,300. NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed July 28, 1928.

EVEREADY

Applicant is owner of registration No. 135,757, dated Oct. 19, 1920.
For Radio Receiving Sets and Loud Speakers.
Claims use since about July 5, 1928.

Ser. No. 271,487. GOLDBERG BROTHERS, Denver, Colo. Filed Aug. 24, 1928.

AC

For Radioantenna.
Claims use since about July 25, 1928.

Ser. No. 271,560. THE OKONITE COMPANY, Passaic, N. J. Filed Aug. 25, 1928.

HAZACODE

For Insulated Wires and Cables.
Claims use since Feb. 27, 1928.

Ser. No. 271,748. S. FREEHMAN CO., Chicago, Ill. Filed Aug. 30, 1928.

PRESIDENT

For Radio Receiving Sets.
Claims use since Aug. 9, 1928.

Ser. No. 271,751. GENERAL DRY BATTERIES, INC., Cleveland, Ohio. Filed Aug. 30, 1928.

RED HEAD

For Electric Batteries.
Claims use since about Aug. 20, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 271,106. S. L. ALLEN & CO., INC., Philadelphia, Pa. Filed Aug. 16, 1928.



For Coasting Sleds.
Claims use since December, 1905.

Ser. No. 271,299. THE FAIR, Chicago, Ill. Filed Aug. 20, 1928.



For Playing Cards.
Claims use since Sept. 22, 1927.

Ser. No. 272,517. RAYMOND TRANE, Omaha, Nebr. Filed Sept. 15, 1928.



For Golf Tees.
Claims use since Sept. 1, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 263,008. THE NATIONAL SUPPLY COMPANY OF DELAWARE, New York, N. Y. Filed Mar. 12, 1928.

IDEAL

HALLIBURTON
DRILLING CONTROL

The words "Halliburton Drilling Control" are hereby disclaimed apart from the mark as shown.

For Oil-Well Tools and Equipment—Namely, Drilling-Machine Controls and Parts Therefor Employed in Drilling Oil Wells.

Claims use since Dec. 31, 1924.

Ser. No. 267,782. THE NATIONAL TOWEL VENDOR COMPANY, San Francisco, Calif. Filed June 9, 1928.

DUO-SERVICE

The word "Service" is disclaimed except as associated in the trade-mark.

For Vending Machines for Paper Towels and Soap.
Claims use since Apr. 12, 1928.

Ser. No. 269,184. CURTISS AEROPLANE AND MOTOR COMPANY, INC., Garden City and Buffalo, N. Y. Filed July 6, 1928.

Challenger

For Internal-Combustion Motors.
Claims use since Apr. 1, 1928.

Ser. No. 270,909. AMERICAN WRINGER CO., INC., Woonsocket, R. I. Filed Aug. 13, 1928.

Paralastic

For Squeezing Rolls Constructed of Rubber Adapted for Use Chiefly in Laundry and Textile Machinery, Paper Machinery, and Printing Presses, Such as Wringer Rolls, Calendering Rolls, Mangle Rolls, Pressing Rolls, Etc.
Claims use since June 1, 1928.

Ser. No. 271,846. DIAMOND EXPANSION BOLT COMPANY, Garwood, N. J. Filed Sept. 1, 1928.

DI ◇ FORGE

For Drills for Brick, Stone, Concrete, and Similar Materials.
Claims use since on or about July 17, 1928.

Ser. No. 272,487. GOTHAM KNITBAC MACHINE CORPORATION, New York, N. Y. Filed Sept. 15, 1928.

KNITBAC

For Machines for Repairing Fabrics.
Claims use since Sept. 4, 1928.

Ser. No. 272,488. GOTHAM KNITBAC MACHINE CORPORATION, New York, N. Y. Filed Sept. 15, 1928.

GOTHAM
KNITBAC

For Machines for Repairing Fabrics.
Claims use since Sept. 4, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 245,040. CHARLES THEBES WEYMANN, Paris, France. Filed Feb. 28, 1927.



For Gasoline Gauges.
Claims use since August, 1924.

Ser. No. 260,169. CARL H. DICKE, doing business as Pioneer Heat Regulator Company, Bloomfield, N. J. Filed Jan. 16, 1928.

PIONEER

For Thermostats.
Claims use since about October, 1927.

Ser. No. 268,720. WALL & OCHS, INCORPORATED, Philadelphia, Pa. Filed June 26, 1928.

WANDO

For Spectacles, Eyeglasses, Eyeglass Mountings, and Bridges for Eyeglasses.
Claims use since about April, 1918.

Ser. No. 270,245. INDEPENDENT OPTICAL COMPANY, Southbridge, Mass. Filed July 27, 1928.

Shellkraft

For Spectacles, Eyeglasses, Spectacle Temples, and Parts Thereof.
Claims use since on or about Jan. 1, 1925.

Ser. No. 271,310. OPTICAL SERVICE CORPORATION, New York, N. Y. Filed Aug. 20, 1928.

DUO-REDE

For Ophthalmic Lenses.
Claims use since November, 1927.

Ser. No. 271,427. BURLEIGH BROOKS, New York, N. Y. Filed Aug. 23, 1928.

IDEAL

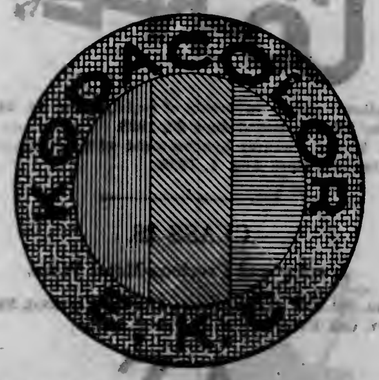
For Camera Lens Filters.
Claims use since June 27, 1928.

Ser. No. 271,542. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Aug. 25, 1928.

KODACOLOR

For Sensitized Photographic and Motion-Picture Films, Films Bearing Developed Photographic Images, Reels for Such Film; Photographic and Motion-Picture Cameras and Projectors and Accessories Therefor—Namely, Lenses, Color Filters, Neutral Light Filters, Lamp Houses, Rheostats, Special Diaphragms, and Filter Containers and Mounts; Projection Screens, Reflectors Used in Taking Photographs.
Claims use since Aug. 1, 1928.

Ser. No. 271,543. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Aug. 25, 1928.



The drawing is lined to indicate color, the peripheral band being yellow, the vertical bands being successively red, green, and blue from left to right.

For Sensitized Photographic and Motion-Picture Films, Films Bearing Developed Photographic Images, Reels for Such Film; Photographic and Motion-Picture Cameras and Projectors and Accessories Therefor—Namely, Lenses, Color Filters, Neutral Light Filters, Lamp Houses, Rheostats, Special Diaphragms, and Filter Containers and Mounts; Projection Screens, Reflectors Used in Taking Photographs.
Claims use since Aug. 1, 1928.

Ser. No. 271,299. THE FAIR, Chicago, Ill. Filed Aug. 20, 1928.



For Playing Cards.
Claims use since Sept. 22, 1927.

Ser. No. 272,517. RAYMOND TRANE, Omaha, Nebr. Filed Sept. 15, 1928.



For Golf Tees.
Claims use since Sept. 1, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 263,008. THE NATIONAL SUPPLY COMPANY OF DELAWARE, New York, N. Y. Filed Mar. 12, 1928.

IDEAL

HALLIBURTON
DRILLING CONTROL

The words "Halliburton Drilling Control" are hereby disclaimed apart from the mark as shown.
For Oil-Well Tools and Equipment—Namely, Drilling-Machine Controls and Parts Therefor Employed in Drilling Oil Wells.
Claims use since Dec. 31, 1924.

Ser. No. 267,782. THE NATIONAL TOWEL VENDOR COMPANY, San Francisco, Calif. Filed June 9, 1928.

DUO-SERVICE

The word "Service" is disclaimed except as associated in the trade-mark.
For Vending Machines for Paper Towels and Soap.
Claims use since Apr. 12, 1928.

Ser. No. 269,184. CURTISS AEROPLANE AND MOTOR COMPANY, INC., Garden City and Buffalo, N. Y. Filed July 6, 1928.

Challenger

For Internal-Combustion Motors.
Claims use since Apr. 1, 1928.

Ser. No. 270,909. AMERICAN WRINGER CO., INC., Woonsocket, R. I. Filed Aug. 13, 1928.

Paralastic

For Squeezing Rolls Constructed of Rubber Adapted for Use Chiefly in Laundry and Textile Machinery, Paper Machinery, and Printing Presses, Such as Wringer Rolls, Calendering Rolls, Mangle Rolls, Pressing Rolls, Etc.
Claims use since June 1, 1923.

Ser. No. 271,846. DIAMOND EXPANSION BOLT COMPANY, Garwood, N. J. Filed Sept. 1, 1928.

DI ◇ FORGE

For Drills for Brick, Stone, Concrete, and Similar Materials.
Claims use since on or about July 17, 1928.

Ser. No. 272,487. GOTHAM KNITBAC MACHINE CORPORATION, New York, N. Y. Filed Sept. 15, 1928.

KNITBAC

For Machines for Repairing Fabrics.
Claims use since Sept. 4, 1928.

Ser. No. 272,488. GOTHAM KNITBAC MACHINE CORPORATION, New York, N. Y. Filed Sept. 15, 1928.

GOTHAM
KNITBAC

For Machines for Repairing Fabrics.
Claims use since Sept. 4, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 245,040. CHARLES THERES WEYMANN, Paris, France. Filed Feb. 28, 1927.



For Gasoline Gauges.
Claims use since August, 1924.

Ser. No. 260,169. CARL H. DICKE, doing business as Pioneer Heat Regulator Company, Bloomfield, N. J. Filed Jan. 16, 1928.

PIONEER

For Thermostats.
Claims use since about October, 1927.

Ser. No. 268,720. WALL & OCHS, INCORPORATED, Philadelphia, Pa. Filed June 26, 1928.

WANDO

For Spectacles, Eyeglasses, Eyeglass Mountings, and Bridges for Eyeglasses.
Claims use since about April, 1918.

Ser. No. 270,245. INDEPENDENT OPTICAL COMPANY, Southbridge, Mass. Filed July 27, 1928.

Shellkraft

For Spectacles, Eyeglasses, Spectacle Temples, and Parts Thereof.
Claims use since on or about Jan. 1, 1925.

Ser. No. 271,310. OPTICAL SERVICE CORPORATION, New York, N. Y. Filed Aug. 20, 1928.

DUO-REDE

For Ophthalmic Lenses.
Claims use since November, 1927.

Ser. No. 271,427. BURLEIGH BROOKS, New York, N. Y. Filed Aug. 23, 1928.

IDEAL

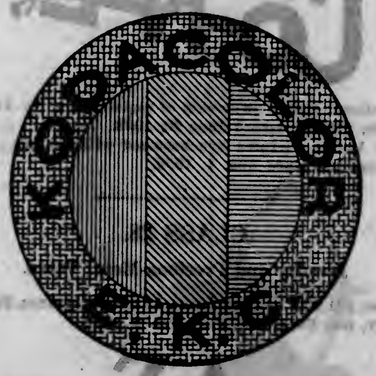
For Camera Lens Filters.
Claims use since June 27, 1928.

Ser. No. 271,542. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Aug. 25, 1928.

KODACOLOR

For Sensitized Photographic and Motion-Picture Films, Films Bearing Developed Photographic Images, Reels for Such Film; Photographic and Motion-Picture Cameras and Projectors and Accessories Therefor—Namely, Lenses, Color Filters, Neutral Light Filters, Lamp Houses, Rheostats, Special Diaphragms, and Filter Containers and Mounts; Projection Screens, Reflectors Used in Taking Photographs.
Claims use since Aug. 1, 1928.

Ser. No. 271,543. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Aug. 25, 1928.



The drawing is lined to indicate color, the peripheral band being yellow, the vertical bands being successively red, green, and blue from left to right.
For Sensitised Photographic and Motion-Picture Films, Films Bearing Developed Photographic Images, Reels for Such Film; Photographic and Motion-Picture Cameras and Projectors and Accessories Therefor—Namely, Lenses, Color Filters, Neutral Light Filters, Lamp Houses, Rheostats, Special Diaphragms, and Filter Containers and Mounts; Projection Screens, Reflectors Used in Taking Photographs.
Claims use since Aug. 1, 1928.

Ser. No. 271,544. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Aug. 25, 1928.



No claim is made to the words "Safety Film." The drawing is lined to indicate color, the horizontal bands from top to bottom being successively yellow, red, green, blue, and yellow.

For Sensitized Photographic and Motion-Picture Films, Films Bearing Developed Photographic Images.

Claims use since Aug. 1, 1928.

Ser. No. 271,889. FOX CASE CORPORATION, New York, N. Y. Filed Sept. 4, 1928.

FOX MOVIETONE

For Motion Pictures.

Claims use since about Oct. 20, 1926.

Ser. No. 272,584. TIFFANY-STAHL PRODUCTIONS, INC., New York, N. Y. Filed Sept. 17, 1928.



Applicant claims ownership of registrations No. 243,790 and No. 243,791, issued June 26, 1928.

For Motion Pictures Synchronized with Sound.

Claims use since Aug. 1, 1928.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 261,032. ALPHA SIGMA LAMBDA NATIONAL FRATERNITY, Oak Park, Ill. Filed Feb. 2, 1928.

ΑΣ
Λ

For Membership Pins, Finger Rings, Lapel Buttons, Watch Charms, Bracelets, and Tie Pins Made of or Plated with Precious Metal.

Claims use since Dec. 27, 1917.

Ser. No. 263,983. THETA KAPPA OMEGA FRATERNITY, Memphis, Tenn. Filed Mar. 29, 1928.

ΘΚΩ

For Fraternity Badges, Lapel Buttons, Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.

Claims use since Oct. 1, 1926.

Ser. No. 264,607. BENJ. ROBINSON, doing business as A. Robinson & Son, New York, N. Y. Filed Apr. 9, 1928.

AR

For Finger Rings in Gold, Silver, and Platinum.

Claims use since February, 1928.

Ser. No. 266,465. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y. Filed May 16, 1928.

"BRIDE O'LOVE"

For Finger Rings and Mountings Therefor.

Claims use since May 3, 1928.

Ser. No. 269,967. LANDERS, FRARY & CLARK, New Britain, Conn. Filed July 21, 1928.

IVOROY

For Knives, Forks, Spoons, Table Steels, Nut Picks, and Cheese Scoops, and for Crumb Trays All Made of or Plated with Precious Metal.

Claims use since Sept. 15, 1905.

Ser. No. 270,731. TAU DELTA PHI, New York, N. Y. Filed Aug. 7, 1928.

ΤΔΦ

For Pins, Finger Rings, Bracelets, Charms, Pendants, and Vanity Cases, All Made of or Plated with Precious Metal.

Claims use since July 15, 1910.

Ser. No. 271,742. COHN & ROSENBERGER, Inc., New York, N. Y. Filed Aug. 30, 1928.

HARLEQUIN

For Pearls, Necklaces, Bracelets, Earrings, Finger Rings, Brooches, Bar Pins, and Ornamental Hatpins; and Pins for Dress Ornaments, Ornamental Pins, and Buckles for Decorating Hats, Ornamental Shoe Buckles, and Hair Ornaments, Made Wholly or in Part of or Plated with Precious Metal.

Claims use since May 10, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 268,597. FORD MOTOR COMPANY, Fordson, Mich. Filed June 25, 1928.

Ford

Applicant is the owner of registration Nos. 74,530, 74,765, and 115,500.

For Windshield Wipers and Automatic Windshield Wipers and Parts Thereof.

Claims use since about Apr. 9, 1924, in respect of windshield wipers and parts and accessories thereof; as to automatic windshield wipers and parts thereof since Jan. 2, 1926.

Ser. No. 269,914. PRO-PHY-LAC-TIC BRUSH COMPANY, Northampton, Mass. Filed July 20, 1928.



The background of the box is yellow, the representation of the toothbrush thereon is white printed in black, the word "Pro-phy-lac-tic" except on the brush is in red, the band which encircles the box when in its folded condition is red, the word "Oval" is printed in white on the band, and the remainder of the printing is in black. Except in combination with the other features shown in the drawing no claim is made to the representation of a box per se, nor to the representation of a toothbrush except as shown, nor to the printing appearing thereon except the trademarks "Pro-phy-lac-tic" and "Oval" whenever they appear.

For Toothbrushes.

Claims use since Mar. 8, 1928.

Ser. No. 270,131. J. WILL LYSONS, New York, N. Y. Filed July 25, 1928.

"Giffy"
CREAMER

No claim is made to the word "Creamer" apart from the mark shown on the drawing.

For Cream-Applying Device in the Nature of a Brush for Applying Face Creams, Cold Creams, Cleansing Creams, Polishing Creams, and Similar Preparations.

Claims use since July 1, 1928.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 262,364. LIGHTFOOT SCHULTZ COMPANY, Hoboken N. J., and New York, N. Y. Filed Feb. 28, 1928.

Mural-Scent

No claim is made to the word "Scent" apart from the mark as shown.

For Empty Receptacles Formed of Liquid Absorbent Ceramic Materials for Holding Perfumes and Other Liquids.

Claims use since Feb. 9, 1928.

Ser. No. 268,094. GRUEBY FAIENCE AND TILE COMPANY, Boston, Mass., and Philadelphia, Pa. Filed June 15, 1928. Under 10-year proviso.

GRUEBY

For Pottery and Faience.

Claims use since 1888.

Ser. No. 268,695. RUDOLF PITSCHKE, doing business as A. Lamm, Porzellanmalerei, Kunst- und Antiquitätenhandlung, Dresden, Germany. Filed June 26, 1928. Under 10-year proviso.



For Painted China.

Claims use since December, 1890.

CLASS 31.

Filters and Refrigerators.

Ser. No. 272,382. CHASE BRASS & COPPER COMPANY, Waterbury, Conn. Filed Sept. 14, 1928.



For Filters.

Claims use since Aug. 22, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 265,682. PACIFIC STATES BEDDING & FURNITURE COMPANY, Los Angeles, Calif. Filed Apr. 30, 1928.



The words "Quality Line" are disclaimed apart from the mark shown. The drawing is lined to indicate the background of the shield as orange and the scroll below the shield as green.

For Mattresses and Pillows.

Claims use since Mar. 28, 1928.

Ser. No. 270,933. JOHNSON CHAIR COMPANY, Chicago, Ill. Filed Aug. 13, 1928.

POS-CHAIR

No claim is made to the word "Chair" apart from the trade-mark as shown.

For Chairs for Household, Office, and Like Use.

Claims use since October, 1927.

Ser. No. 272,312. SLIGH FURNITURE COMPANY, Grand Rapids, Mich. Filed Sept. 12, 1928.



The words "Furniture" and "Grand Rapids, Mich." are disclaimed by applicant apart from the mark shown.

For Wooden Household Furniture—Namely, Dressers, Chiffoniers, Dressing Tables, Beds, Chairs, Tables, Writing Desks, Night Stands, Secretaries, Buffets, China Cabinets, Serving Tables, Dining Tables, and Footstools.

Claims use since May 1, 1928.

CLASS 33.

Glassware.

Ser. No. 272,693. FRED BUTTERFIELD & CO., INC., New York, N. Y. Filed Sept. 20, 1928.

LIGHT O' DAY

For Glass Lamp Shades.

Claims use since June 6, 1928.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 271,006. POLYSIUS CORPORATION, Bethlehem, Pa. Filed Aug. 14, 1928.

SOLO

For Cement Kilns.

Claims use since January, 1927.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 269,380. ALLBESTOS CORPORATION, Philadelphia, Pa. Filed July 11, 1928.

BROWN-EDGE

The trade-mark consists of the words "Brown-Edge" printed on a lateral face of the goods and in the coloring of the longitudinal edges of the goods brown, as indicated by the lining shown in the drawing. No claim is made to the representation of the section of brake lining.

For Brake Linings.

Claims use since June 28, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 262,450. ELLIOPULOS BROS., Chicago, Ill. Filed Mar. 1, 1928.



No claim is made to the words "Al Disco Moderno" nor to the representation of the goods apart from the mark as shown on the drawing.

For Phonograph Records.

Claims use since Jan. 15, 1927.

Ser. No. 268,322. SPEAK-O-PHONE, INCORPORATED, New York, N. Y. Filed June 19, 1928.

"A Snapshot of Your Voice"

For Metallic Disc Phonograph Records.

Claims use since May 1, 1928.

Ser. No. 271,316. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Aug. 20, 1928.



For Talking-Machine Records.

Claims use since July 6, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 270,694. HARRY M. ELISH, doing business as Harry Elish Paper Company, New York, N. Y. Filed Aug. 7, 1928.

Prairie

For Print Paper, Bond Paper, Onionskin Paper, Cloth-Lined Paper, Gummed Paper, Book Paper.

Claims use since about April, 1922.

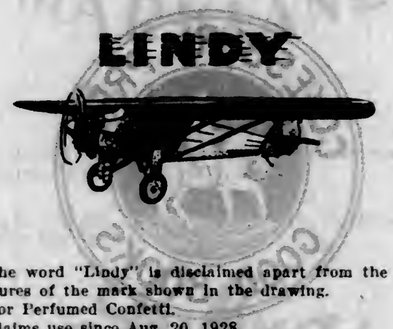
Ser. No. 271,361. THE REYNOLDS & REYNOLDS COMPANY, Dayton, Ohio. Filed Aug. 21, 1928.

REYNOCO

For Blank Slips, Ledger Leaves, Manifold Books, Loose-Leaf Blanks, Correspondence and Mailing Envelopes, Printed and Ruled Forms, Order Blanks, and Writing and Printing Paper.

Claims use since June 10, 1928.

Ser. No. 271,565. STAMATIS POLYCHRONOPOULOS, doing business as Lindy Perfumed Confetti Co., New York, N. Y. Filed Aug. 25, 1928.



The word "Lindy" is disclaimed apart from the other features of the mark shown in the drawing.

For Perfumed Confetti.

Claims use since Aug. 20, 1928.

Ser. No. 271,864. REGENT CARD & PAPER CO., INC., New York, N. Y. Filed Sept. 1, 1928.

ACCURATE BOND

No registration rights are claimed in the word "Bond."

For Bond Paper and Ledger Paper.

Claims use since July 15, 1928.

Ser. No. 272,193. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed Sept. 11, 1928.

A.P.W.

For Toilet Paper, Tissue Paper, Crepe Paper, and Paper Towels.

Claims use since Aug. 2, 1928.

CLASS 38.

Prints and Publications.

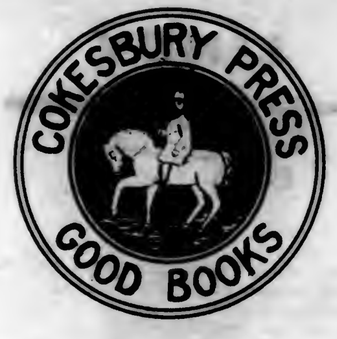
Ser. No. 262,151. THE CENTURY CO., New York, N. Y. Filed Feb. 24, 1928. Under 10-year proviso.

CENTURY

For Dictionaries, Books, and Periodicals.

Claims use since November, 1881.

Ser. No. 267,366. LAMAR & WHITMORE, BOOK AGENTS, PUBLISHING HOUSE, M. E. CHURCH, SOUTH, doing business as Cokesbury Press, Nashville, Tenn. Filed June 2, 1928.



The words "Good Books" appearing on the drawing are disclaimed apart from the mark shown.
For Printed Books.
Claims use since on or about Feb. 13, 1926.

Ser. No. 268,461. PALEVEDA-BRYAN PRINTING COMPANY, INC., Tampa, Fla. Filed June 21, 1928.

"The Home of Good Impressions"
PALEVEDA-BRYAN
PRINTING COMPANY

For Blank Memorandum and Scrap Pads and Blotters for Advertising Purposes, Blank Shipping Labels and Tags, Writing Paper, Letterheads and Billheads, Correspondence and Mailing Envelopes, Blank Invoices and Statements, Wrapping Paper, and Gummed Packing Paper Tape.
Claims use since September, 1923.

Ser. No. 269,830. MONROE F. DREHER, INC., Newark, N. J. Filed July 19, 1928.



For Labels, Advertising Circulars, Catalogues, Descriptive Folders, Price Lists, Menus, and Programs Sold to the Trade as Such.
Claims use since February, 1926.

Ser. No. 270,847. W. IVANHOE JOCHUM, doing business as The Ifulike Publishing Company, Chicago, Ill. Filed Aug. 10, 1928.

IFULIKE

For Pamphlets Published Periodically.
Claims use since Apr. 30, 1928.

Ser. No. 270,973. NATIONAL BOARD OF THE YOUNG WOMENS CHRISTIAN ASSOCIATIONS OF THE UNITED STATES OF AMERICA, New York, N. Y. Filed Aug. 13, 1928.

The WOMAN'S PRESS

For Periodicals, Catalogs, Books, Bulletins, and Pamphlets.
Claims use since September, 1922.

Ser. No. 271,085. THE REGISTER AND TRIBUNE COMPANY, Des Moines, Iowa. Filed Aug. 15, 1928.

JABBY

For Cartoon Section of Newspapers and Other Publications.
Claims use since June 11, 1928.

Ser. No. 271,477. DAILY GRAPHIC, INC., New York, N. Y. Filed Aug. 24, 1928.

Let's go PLACES

For Newspaper Column.
Claims use since Aug. 15, 1928.

CLASS 39.

Clothing.

Ser. No. 251,357. VERNAMAE NOBLE, Minneapolis, Minn. Filed June 30, 1927.

VERNAMAE

For Women's and Children's Woven Dresses, Pajamas, Nightgowns, Chemises, Underdrawers, Slips, Bloomers, Knickers, Bandeaux, and Brassières.
Claims use since Feb. 10, 1920.

Ser. No. 254,839. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Sept. 17, 1927.

ENCORE

For Men's and Boys' Dress, Negligee, and Work Shirts, Pajamas, Nightgowns, Blouse Waists, Play Suits, and Lumberjacks.
Claims use since Aug. 15, 1927.

Ser. No. 261,441. KABUCK-ROCHESTER INC., Rochester, N. Y. Filed Feb. 9, 1928.



For Clothing for Use of Men, Women, and Children—Namely, Custom-Made Shirts, Custom-Made Pajamas, Custom-Made Shirt Waists, and Custom-Made Underwear of Fine Textile Fabrics.
Claims use since Dec. 29, 1924.

Ser. No. 261,465. THE TOLEDO GLOVE MANUFACTURING COMPANY, Toledo, Ohio. Filed Feb. 9, 1928.



No claim is made to the word "Seam" apart from the representation shown.
For Gloves and Gauntlets Made from Fabrics and Combinations of Fabric and Leather.
Claims use since Jan. 31, 1928.

Ser. No. 262,431. TEXTIL-SYNDIKAT GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Chemnitz, Germany. Filed Feb. 29, 1928.

Tesyra

For Ladies', Girls', and Children's Stockings and Gentlemen's and Children's Socks.
Claims use since Sept. 1, 1927.

Ser. No. 262,723. MARKLANE TAILORS INC., New York, N. Y. Filed Mar. 7, 1928.

MARKLANE
TAILORS INC

For Men's and Boys' Coats, Pants, Vests, and Overcoats.
Claims use since about Feb. 1, 1928.

Ser. No. 262,942. SYLVIA HAT MFG. CO., St. Louis, Mo. Filed Mar. 10, 1928.

Sylvia

For Ladies' Trimmed and Untrimmed Hats and Hat Frames.
Claims use since about Dec. 15, 1924.

Ser. No. 264,832. MILICH & OPPENHEIMER, INC., New York, N. Y. Filed Apr. 14, 1928.

Endicot

For Shirts—Namely, Dress, Negligee, and Work Shirts for Men and Boys.
Claims use since February, 1927.

Ser. No. 265,119. THE RIVAL NOVELTY CO., INC., New York, N. Y. Filed Apr. 19, 1928.



The words "Brand, Size, Lot, and Registered" are disclaimed apart from the mark as shown on the drawing.
For Boys' Wash Suits, Blouses; Boys' Outer Shirts, Boys' Suits, Children's Creepers, and Children's Outer Pants.
Claims use since Feb. 24, 1928.

Ser. No. 266,920. ENOLA HOSIERY CO., Buffalo, N. Y. Filed May 24, 1928.

ENOLA

For Hosiery.
Claims use since May 5, 1928.

Ser. No. 268,513. RICE-STIX DRY GOODS CO., St. Louis, Mo. Filed June 22, 1928.

WHIRL-WIND

For Men's, Youths', and Boys' Wearing Apparel—Namely, Dress, Negligee, and Work Shirts and Blouses Adapted for Outer Wear.
Claims use since June 14, 1928.

Ser. No. 269,320. FRANCES SACHSENMAIER, doing business as Realart Silk Hosiery Mills, Philadelphia, Pa. Filed July 9, 1928.

VAMP-TOE

No claim is made to the exclusive use of the word "Toe" apart from the mark shown in the drawing.
For Hosiery.
Claims use since Mar. 19, 1926.

Ser. No. 269,355. KRESGE DEPARTMENT STORE CORPORATION, Newark, N. J. Filed July 10, 1928.

Sonbrooke

For Boys' and Youths' Wearing Apparel—Namely, Suits, Overcoats, Raincoats, Dress, Negligee, and Work Shirts, Hats, Shoes Made of Leather, Textile, or Rubber and Combinations of These Materials, Sweaters, Reefers; and Undergarments—Namely, Shirts, Drawers, and Union Suits of Textile and Knitted Fabrics.
Claims use since Apr. 1, 1927.

Ser. No. 269,466. THE HENRY SONNEBORN COMPANY, Baltimore, Md. Filed July 12, 1928.

O'BANNON

FLEECE

For Men's and Boys' Suits, Overcoats, Trousers, Vests, Coats, Topcoats, and Raincoats.
Claims use since January, 1893.

Ser. No. 269,575. CARTER & JOHNSTON, INC., New York, N. Y. Filed July 14, 1928.

HATTERS TO WOMEN

For Ladies' Wearing Apparel, as Follows: Dresses, Suits, Sweaters, Coats, Scarfs, Sport Belts, and Hosiery.
Claims use since June 26, 1928.

Ser. No. 269,672. H. G. LUMBARD SHOE COMPANY, Auburn, Me. Filed July 16, 1928.

The Lumbard Shoe

No claim is made to the word "Shoe" appearing in the drawing.
For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since Feb. 23, 1928.

Ser. No. 269,898. HORK BROS. COMPANY, Chicago, Ill. Filed July 20, 1928.

Pres-ur-Tie

The use of the word "Tie" is disclaimed apart from the mark as shown in the drawing.
For Necktles.
Claims use since July 20, 1926.

Ser. No. 270,045. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed July 23, 1928.

PENCO

For Cotton-Canvas Work Gloves.
Claims use since July 7, 1928.

Ser. No. 270,046. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed July 23, 1928.

BIG PAY

For Cotton-Canvas Work Gloves.
Claims use since July 7, 1928.

Ser. No. 270,047. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed July 23, 1928.

NATION-WIDE

For Cotton-Canvas Work Gloves.
Claims use since July 7, 1928.

Ser. No. 270,049. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed July 23, 1928.

FOREMOST

For Cotton-Canvas Work Gloves.
Claims use since July 7, 1928.

Ser. No. 270,050. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed July 23, 1928.

COMPASS

For Cotton-Canvas Work Gloves.
Claims use since July 7, 1928.

Ser. No. 270,631. THE FALLS CITY MILLS CO., Louisville, Ky. Filed Aug. 6, 1928.

Certified

For Hosiery.
Claims use since October, 1924.

Ser. No. 270,820. BONWIT TELLER & CO., New York, N. Y. Filed Aug. 10, 1928.

Bontell Special No 9

No claim is made to the expression "Special No. 9" apart from the mark shown in the drawing.
For Hosiery.
Claims use since July 20, 1928.

Ser. No. 270,994. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Aug. 14, 1928.

Clan Cameron

The word "Cameron" is disclaimed apart from the mark as shown in the drawing.
For Men's Topcoats and Overcoats.
Claims use since Aug. 4, 1928.

Ser. No. 271,238. FOUR SQUARE UNDERWEAR COMPANY, Olney, Ill. Filed Aug. 18, 1928.

Ozone

For Men's and Children's Underwear Made of Woven Textiles.
Claims use since Jan. 7, 1927.

Ser. No. 271,239. FOUR SQUARE UNDERWEAR COMPANY, Olney, Ill. Filed Aug. 18, 1928.

HILL TOP

For Men's and Children's Underwear Made of Woven Textiles.
Claims use since Jan. 7, 1927.

Ser. No. 271,250. HERBERT W. HANAN, doing business as Hanan & Son, Brooklyn, N. Y. Filed Aug. 18, 1928. Under section 5b of the act of 1905 as amended in 1920.

HANAN

Applicant is the owner of registration No. 96,011, issued under the 10-year proviso.
For Hosiery for Men, Women, and Children.
Claims use since July, 1923.

Ser. No. 271,369. VAN DYKE KNITTING COMPANY, Milwaukee, Wis. Filed Aug. 21, 1928.

Stellar

For Men's, Women's and Children's Knitted Underwear.
Claims use since on or about middle of July, 1928.

Ser. No. 271,377. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Aug. 22, 1928.

MATALESE

For Robes, Ladies' and Children's Dresses and Coats.
Claims use since about Aug. 20, 1928.

Ser. No. 271,393. LANDAU-SCHNEIDER CO., INC., New York, N. Y. Filed Aug. 22, 1928.

Michelene

For Ladies' Knitted and Textile Underwear, Pajamas, and Negligees.
Claims use since July 31, 1928.

Ser. No. 271,411. THE SELBY SHOE CO., Portsmouth, Ohio. Filed Aug. 22, 1928.

Tru-Poi

For Boots and Shoes Made of Leather and Textile Fabric.
Claims use since July 6, 1925.

Ser. No. 271,424. BERNSTEIN, SCHWARTZ & CO., INC., New York, N. Y. Filed Aug. 23, 1928.



The word "Clothes" is disclaimed apart from the mark shown in the drawing.
For Men's and Young Men's Suits, Topcoats, and Overcoats.
Claims use since Aug. 1, 1928.

Ser. No. 271,577. L. & E. STIRN, New York, N. Y. Filed Aug. 25, 1928.

NEPTUNE

For Beach Coats Made of Pile Fabrics.
Claims use since Aug. 23, 1928.

Ser. No. 271,609. SAMUEL LABOVITZ, doing business as LeeMan Co., Minneapolis, Minn. Filed Aug. 27, 1928.



For Pants, Coats, Overalls, and Jumpers and a Combination Garment of Overalls and Jumpers.
Claims use since June, 1928.

Ser. No. 271,641. BELDING HEMINWAY COMPANY, New York, N. Y. Filed Aug. 28, 1928. Under section 5b of the act of 1905 as amended in 1920.

Belding's

Applicant is the owner of registrations No. 109,505 and No. 109,511, effected under the 10-year proviso.
For Hosiery.
Claims use since about July 1, 1927.

Ser. No. 271,654. KOPS BROS. INC., New York, N. Y. Filed Aug. 28, 1928.

Breez-Jex

For Corsets, Brassières, and Girdles, and Combinations of Same.
Claims use since Mar. 15, 1928.

Ser. No. 271,674. THE CHAS. ALSHULER MFG. CO., Racine, Wis. Filed Aug. 29, 1928.

La Salle

For Dress, Negligee, and Work Shirts.
Claims use since Aug. 15, 1928.

Ser. No. 271,676. BEAR BRAND HOSIERY CO., Chicago, Ill. Filed Aug. 29, 1928.

BABY BEAR

For Hosiery.
Claims use since Nov. 17, 1927.

Ser. No. 271,677. BEAR BRAND HOSIERY CO., Chicago, Ill. Filed Aug. 29, 1928.

SUN SOX

The word "Sox" is disclaimed apart from the mark shown.
For Hosiery.
Claims use since Aug. 17, 1928.

Ser. No. 271,687. DICKSON-JENKINS MANUFACTURING COMPANY, Fort Worth, Tex. Filed Aug. 29, 1928.



The trade-mark is lined for red.
For Overalls, Jumpers, Work Trousers, Work Shirts, Auto Suits, and Children's Play Suits.
Claims use since Sept. 15, 1922.

Ser. No. 271,745. FASHION PARK INCORPORATED, Rochester, N. Y. Filed Aug. 30, 1928.

MONTACUNA

For Men's Coats, Vests, Pants, and Overcoats.
Claims use since about Mar. 1, 1928.

Ser. No. 271,767. MYRON M. NAVISON SHOE CO., INC., Boston, Mass. Filed Aug. 30, 1928.

KRISPY-KIX

For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since Feb. 16, 1928.

Ser. No. 272,010. SARAH E. B. SHEPARD, Lowell, Mass. Filed Sept. 6, 1928.

Peppy-Shep

For Ladies' Hats.
Claims use since June 1, 1928.

Ser. No. 272,041. MARTINS, INC., Brooklyn, N. Y. Filed Sept. 7, 1928.

MAR HAVEN

For Men's and Boys' Clothing—Namely, Suits, Overcoats, Topcoats, Trousers, and Vests; and Men's and Boys' Furnishings—Namely, Dress, Negligee, and Work Shirts, Collars, Ties, Underwear of Knitted and Textile Fabrics, Pajamas, Bath Robes, and Socks.
Claims use since January, 1928.

Ser. No. 272,068. VAN RAALTE CO. INC., New York, N. Y. Filed Sept. 7, 1928.

FRENCHEEL

For Hosiery.
Claims use since Aug. 31, 1928.

Ser. No. 272,085. SIMON COSTUME & DRESS CO. INC., New York, N. Y. Filed Sept. 8, 1928.

Simette

For Women's, Misses', and Children's Dresses.
Claims use since July 10, 1928.

Ser. No. 272,204. FASHION PARK INCORPORATED, Rochester, N. Y. Filed Sept. 11, 1928.

BEARLY



For Women's Coats.
Claims use since about Feb. 1, 1927.

Ser. No. 272,212. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Sept. 11, 1928.

Kingscloth

For Men's Suits Consisting of Coat, Vest, and Trousers.
Claims use since Aug. 20, 1928.

Ser. No. 272,213. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Sept. 11, 1928.

Kashmay

For Men's Topcoats and Overcoats.
Claims use since Aug. 24, 1928.

Ser. No. 272,432. WM. SALLMAN & CO., INC., New York, N. Y. Filed Sept. 14, 1928.

COWBOY MODES

The word "Modes" is disclaimed.
For Juniors' and Misses' Dresses.
Claims use since March, 1927.

Ser. No. 272,469. CADET KNITTING COMPANY, Philadelphia, Pa. Filed Sept. 15, 1928.

CUBIST

For Hosiery.
Claims use since Aug. 16, 1928.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 264,853. UNIVERSAL BUTTON FASTENING & BUTTON COMPANY, Detroit, Mich. Filed Apr. 14, 1928.

RUST PROOF

No claim is made to the words "Rust Proof" per se unassociated with other trade-mark features.
For Nonprecious-Metal Buttons.
Claims use since Feb. 28, 1928.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 244,795. M. SNOWER & COMPANY, Chicago, Ill. Filed Feb. 23, 1927.

SNOW FLAKE

For Towels and Toweling—Namely, White Cotton Towels and Toweling and Turkish Towels and Toweling.
Claims use since on or about Nov. 1, 1924.

Ser. No. 259,386. APPLETON CO., Anderson, S. C. Filed Dec. 28, 1927.

SUNBIRD

For Cotton Piece Goods.
Claims use since Dec. 1, 1927.

Ser. No. 267,487. DOUGLAS & GREEN, INC., New York, N. Y. Filed June 5, 1928.

Brocádo

For Handkerchiefs.
Claims use since Mar. 20, 1928.

Ser. No. 269,096. DEFENDER MFG. COMPANY INC., Long Island City, N. Y. Filed July 5, 1928.

IRON-WEAR

For Sheets and Pillowcases.
Claims use since June 26, 1928.

Ser. No. 270,688. ARNOLD, CONSTABLE & CO., INC., New York, N. Y. Filed Aug. 7, 1928.

CLYDESDALE

For Sheets, Pillowcases, Napkins, Bedspreads, Handkerchiefs, Towels, and Piece Goods Used in the Manufacture of Sheets, Pillowcases, and Similar Articles.
Claims use since 1902.

Ser. No. 271,709. ARNOLD ROSENFELD SILK CORPORATION, New York, N. Y. Filed Aug. 29, 1928.

"CREPE RAMONA WYN"

No claim is made to the right to the exclusive use of the word "Crepe" except in the association shown.
For Silk Piece Goods.
Claims use since Aug. 1, 1928.

Ser. No. 272,007. ROANOKE MILLS COMPANY, Roanoke Rapids, N. C. Filed Sept. 6, 1928.

Dobbystry

For Woven Cotton Fabrics—Namely, Ticking.
Claims use since Sept. 3, 1928.

Ser. No. 272,491. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Sept. 15, 1928.

Solve

For Piece Goods Made of Silk, Cotton, and Wool.
Claims use since Aug. 30, 1928.

Ser. No. 272,616. MAX KAUFMANN & CO., INC., New York, N. Y. Filed Sept. 18, 1928.

HANKERLYN

For Cotton Textile Piece Goods.
Claims use since Aug. 7, 1928.

Ser. No. 272,710. SAMUEL D. FROHLICH, New York, N. Y. Filed Sept. 20, 1928.

Thyranet

For Hair Nets.
Claims use since June 4, 1928.

Ser. No. 272,796. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

ARBY

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 21, 1928.

Ser. No. 272,797. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

BALA-BURET

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 27, 1928.

Ser. No. 272,798. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

BEERO

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 21, 1928.

Ser. No. 272,799. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

GABYDINA

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 21, 1928.

Ser. No. 272,800. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

MOLOW

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 20, 1928.

Ser. No. 272,802. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

SIMBA

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 15, 1928.

Ser. No. 272,803. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

TRESCA

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 27, 1928.

Ser. No. 272,804. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

TRINLEY

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 25, 1927.

Ser. No. 272,805. HENRY GLASS & CO., New York, N. Y. Filed Sept. 22, 1928.

VEENAY

For Cotton Piece Goods, Silk and Cotton Piece Goods, and Artificial-Silk and Cotton Piece Goods.
Claims use since Aug. 21, 1928.

Ser. No. 272,810. HESS, GOLDSMITH & CO., INC., New York, N. Y. Filed Sept. 22, 1928.



Jumelle Prints

Exclusive use of the word "Prints" is not claimed except in association with the other features of the mark.
For Silk Piece Goods.
Claims use since Sept. 18, 1928.

Ser. No. 272,841. JOHN WILLIAMS MFG. CO., Philadelphia, Pa. Filed Sept. 22, 1928.

Rayokool.

For Fabrics Manufactured from Wool, Worsted, Mohair, Silk, Cotton, Flax (Linen), and Rayon Fibres or Mixtures of the Same.
Claims use since July, 1927.

Ser. No. 272,895. W. E. MCKAY & CO. INC., New York, N. Y. Filed Sept. 24, 1928.

"LA MOLLADOR"

For Cotton Goods in the Piece or Roll.
Claims use since Sept. 4, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 262,878. THE VISCOSE COMPANY, Marcus Hook, Pa. Filed Mar. 9, 1928.

CROWN



For Rayon Yarn.
Claims use since Apr. 20, 1925.

Ser. No. 271,553. JAMES LEES & SONS COMPANY, Bridgeport, Pa. Filed Aug. 25, 1928.

OLYMPIC

For Yarns.
Claims use since July 5, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 264,383. RALPH A. NESMITH, Los Angeles, Calif. Filed Apr. 5, 1928.

RevivatonE

For an Exercising Device Which is Used Primarily for Therapeutic or Medical Purposes.
Claims use since Sept. 24, 1926.

Ser. No. 265,534. JACK GLEICHMAN, doing business as The San-I-Pro Co., New York, N. Y. Filed Apr. 28, 1928.

San-i-pro

For Protectors for Nursing Nipples for Infants.
Claims use since about June 1, 1926.

Ser. No. 266,404. CORINNE M. SANCHE, doing business as Electrotonor Company, West Montreal, Canada, and New York, N. Y. Filed May 14, 1928.

Electrivita

For Electric Massage Device for Treating Rheumatism, Neuritis, and Similar Affections.
Claims use since Aug. 1, 1927.

Ser. No. 271,130. LA BIOTHÉRAPIE, S. A. (Societe des Produits Chimiques et Biologiques), Paris, France. Filed Aug. 16, 1928.

BIOLITH

For Dental Cement for Fillings.
Claims use since July 10, 1928.

Ser. No. 272,369. VELDOWN COMPANY, INC., New York, N. Y. Filed Sept. 13, 1928.

Absorbodown

For Cellulose for Surgical Dressings, Swabs, Sanitary Pads, and General Hospital Use.
Claims use since Oct. 1, 1927.

Ser. No. 272,426. PLATEX LABORATORIES, INC., Chattanooga, Tenn. Filed Sept. 14, 1928.

PLATEX

For Pads for Cushioning False Teeth While in the Mouth.
Claims use since on or about Aug. 25, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 263,589. "CRISTALLO" A. G., Thusis, Switzerland. Filed Mar. 22, 1928.

EVIUNIS

For Mineral Waters, Flavoring Syrups for Soft Drinks, and Nonalcoholic, Cereal, and Noncereal, Maltless Beverages.
Claims use since January, 1928.

Ser. No. 272,499. FRED F. KORN, Chicago, Ill. Filed Sept. 15, 1928.



For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since July 1, 1927.

Ser. No. 272,508. WILLIAM NEIS & SON, Doylestown, Pa. Filed Sept. 15, 1928.

NOVO

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups and Concentrates for Making the Same.
Claims use since Apr. 15, 1927.

Ser. No. 272,655. H. C. HALLAM, Okonoko Springs, Eustis, Fla. Filed Sept. 19, 1928.

OKONOKO

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Table Water.
Claims use since June 30, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 234,736. REYNOLDS & IRVING INC., New York, N. Y. Filed July 19, 1926.



The word "Brand" is disclaimed apart from the mark shown.
For Cheese.
Claims use since June 15, 1900.

Ser. No. 246,334. EPRON AND NOVIK, Passaic, N. J. Filed Mar. 25, 1927.



For Hot Peppers, Sweet Peppers, Dill Pickles, Sweet Mixed Pickles, Vinegar Pickles, Mustard, Sour Mixed Pickles, Tomatoes, Sauerkraut, Chowchow, Olives, and Piccalilli; All Goods Being Packed Either in Glass Jars or in Wooden Pails After Having Been Cured.

Claims use since Jan. 1, 1916.

Ser. No. 248,860. PERFECTION CANNING CO., INC., Newark, N. Y. Filed May 11, 1927.

C AND C

The mark consists of the first letter of the names of H. G. Chapman and R. E. Chittenden, officers of the applicant corporation.

For Canned Fruits, Canned Vegetables, Canned Berries, and Canned Apple Sauce.

Claims use since June 1, 1924.

Ser. No. 249,873. SUNICAL PACKING COMPANY, San Francisco, Calif. Filed June 1, 1927.

GOOD HOUSEKEEPING

For Canned and Dried Fruits, Canned Vegetables, Canned Tomato Purée, Honey, Marmalade, Tomato Paste, Olive Oil, Mayonnaise, and Canned Olives.

Claims use since May 20, 1927.

Ser. No. 258,406. ARAUJO & BASTOS, LIMITADA, Lisbon and Setubal, Portugal. Filed Aug. 13, 1927.



All reading matter and the outline of the container are disclaimed apart from the mark as shown. The drawing is lined to indicate the colors red and gold.

For Sardines Canned in Oil.

Claims use since January, 1926.

Ser. No. 258,294. GEORGE W. SIMMONS CORPORATION, New York, N. Y. Filed Dec. 1, 1927.

SWORD

For Canned Vegetables—Namely, Corn, Peas, Tomatoes, Spinach, Asparagus, Succotash, Beets, Wax Beans, Stringless Beans, Beans with Pork, Sauerkraut; Canned Fruits—Namely, Apricots, Peaches, Pears, Cherries, Strawberries, Apple Sauce; Canned Fish—Namely, Sardines, Tuna Fish, Salmon; Dried Fruits—Namely, Currants, Prunes, Seeded Raisins, Seedless Raisins, Apricots, Figs, Dates; Pickles, Olives, Olive Oil, Salad Oil, Cider Vinegar, Cane Syrup, Maple Syrup, Catsup, Worcestershire Sauce, Peanut Butter, Prepared Mustard, Vanilla Extract for Food-Flavoring Purposes, Cake Flour, Self-Rising Flour, Pancake Flour, Cornstarch, Rice, Dried Marrow Beans, Dried Red Kidney Beans, Split Peas, Macaroni, Egg Noodles, Tea, Coffee, Spices, Herbs for Food Purposes, Cocoa, Candied Peel, and Candy.

Claims use since Nov. 10, 1927.

Ser. No. 258,391. ARPEAKO, INC., Rochester, N. Y. Filed Dec. 3, 1927.



For Smoked Pork Products—Namely, Hams, Bacon, Pork Shoulders, Bacon Squares, Ham Roll, Sliced Bacon, Corned Beef, Smoked Dried Beef, Boiled Hams, Baked Hams, Roasted Hams, Cooked Pork Loin, Frankfurters, Bologna, Pork Sausage, Polish Sausage, Blood Sausage, Headcheese, Liver Sausage, Minced Ham, Pressed Ham, Meat Loaf, and Fresh Pork Cuts.

Claims use since May 9, 1926.

Ser. No. 258,392. ARPEAKO, INC., Rochester, N. Y. Filed Dec. 3, 1927.



No registration rights are claimed for the words "The Peak of Perfection."

For Smoked Pork Products—Namely, Hams, Bacon, Pork Shoulders, Bacon Squares, Ham Roll, Sliced Bacon, Corned Beef, Smoked Dried Beef, Boiled Hams, Baked Hams, Roasted Hams, Cooked Pork Loin, Frankfurters, Bologna, Pork Sausage, Polish Sausage, Blood Sausage, Headcheese, Liver Sausage, Minced Ham, Pressed Ham, Meat Loaf, and Fresh Pork Cuts.

Claims use since May 9, 1926.

Ser. No. 258,393. ARPEAKO, INC., Rochester, N. Y. Filed Dec. 3, 1927.



The crosshatching in the drawing indicates the color orange within a gold border, and the horizontal lining is intended to indicate the color blue.

For Smoked Pork Products—Namely, Hams, Bacon, Pork Shoulders, Bacon Squares, Ham Roll, Sliced Bacon, Corned Beef, Smoked Dried Beef, Boiled Hams, Baked Hams, Roasted Hams, Cooked Pork Loin, Frankfurters, Bologna, Pork Sausage, Polish Sausage, Blood Sausage, Headcheese, Liver Sausage, Minced Ham, Pressed Ham, Meat Loaf, and Fresh Pork Cuts.

Claims use since May 9, 1926.

Ser. No. 258,394. ARPEAKO, INC., Rochester, N. Y. Filed Dec. 3, 1927.



No registration rights are claimed for the words "The Peak of Perfection." The crosshatching in the drawing indicates the color orange within a gold border, and the horizontal lining is intended to denote the color blue.

For Smoked Pork Products—Namely, Hams, Bacon, Pork Shoulders, Bacon Squares, Ham Roll, Sliced Bacon, Corned Beef, Smoked Dried Beef, Boiled Hams, Baked Hams, Roasted Hams, Cooked Pork Loin, Frankfurters, Bologna, Pork Sausage, Polish Sausage, Blood Sausage, Headcheese, Liver Sausage, Minced Ham, Pressed Ham, Meat Loaf, and Fresh Pork Cuts.

Claims use since May 9, 1926.

Ser. No. 258,438. JAMES VERNOR COMPANY, Detroit, Mich. Filed Dec. 3, 1927.

Vernor's

For Aromatic Baking Flavor for Use in Place of Ginger, in Powder Form.

Claims use since on or about Sept. 1, 1927.

Ser. No. 259,460. ROMAN MEAL COMPANY, Tacoma, Wash. Filed Dec. 29, 1927.



For Cereal Breakfast Food, Bread, Biscuits, Cookies, and Crackers.

Claims use since May, 1921.

Ser. No. 261,974. MCGAVIN'S BREAD INC., Denver, Colo. Filed Feb. 20, 1928.

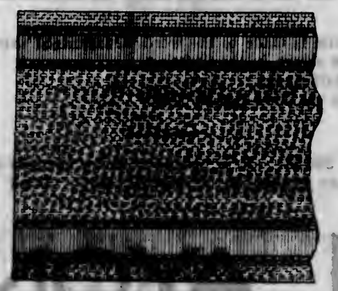


Exclusive right to the words "California Raisin Bran Bread" is disclaimed apart from the mark as shown. The trade-mark has been lined to indicate the color orange.

For Bread.

Claims use since Aug. 15, 1926.

Ser. No. 262,607. THE HEUBE PRODUCTS COMPANY, St. Paul, Minn. Filed Mar. 5, 1928.



The lining upon the drawing indicates the colors red and yellow.

For Fish, Bird, Cat, and Dog Foods.

Claims use since July, 1912.

Ser. No. 264,851. GEO. F. STUHMER & CO., INC., Brooklyn, N. Y. Filed Apr. 14, 1928.

STUHMER'S

PUMPERNICKEL

The words "Stuhmer's," "Pumpernickel," and the Hebrew characters meaning "Kosher" are disclaimed apart from the mark as shown in the drawing.
For Pumpernickel.
Claims use since December, 1910.

Ser. No. 265,506. CHARLES J. STERBACH, Philadelphia, Pa. Filed Apr. 27, 1928.



No claim is made to the words "Tastebest, and It Does" except in the form and arrangement shown in the drawing.
For Horse-Radish and Sauerkraut.
Claims use since Oct. 1, 1923.

Ser. No. 266,397. WALTER PASCOE, doing business as Quality Products Co., Evansville, Ind. Filed May 14, 1928.

INDEPENDENT RETAILERS

GUARANTEED

No claim is made to the word "Guaranteed" apart from the mark shown in the drawing.
For Malt Syrup.
Claims use since Apr. 5, 1928.

Ser. No. 266,831. A. M. SIMPSON, doing business as Layon Leghorn Farms, St. Clairsville, Ohio. Filed May 22, 1928.

LAYON

For Baby Chicks, Eggs, and Live Poultry.
Claims use since Jan. 1, 1928.

Ser. No. 267,580. CLEMENTE JACQUES Y CIA., Mexico, Mexico. Filed June 6, 1928.



For Piquant Chili Sauces.
Claims use since April 4, 1911.

Ser. No. 267,584. CLEMENTE JACQUES Y CIA., Mexico, Mexico. Filed June 6, 1928.

TLAMOLE

For Canned Chili Sauce Prepared with Juice of Turkey.
Claims use since Jan. 31, 1911.

Ser. No. 267,613. SOUTHERN WISCONSIN PRODUCE COMPANY, Madison, Wis. Filed June 6, 1928.



For Eggs and Dressed Poultry.
Claims use since Mar. 20, 1927.

Ser. No. 268,589. CROWN CHOCOLATE CO., McKeesport, Pa. Filed June 25, 1928.

ARISTO

For Candy.
Claims use since October, 1907.

Ser. No. 268,931. LO PRESTI BROS., doing business as Little Bohemia Products Co., Chicago, Ill. Filed June 30, 1928.

LITTLE BOHEMIA

No claim is made to the word "Bohemia" apart from the mark as shown.
For Malt Syrups for Food Purposes.
Claims use since April, 1927.

Ser. No. 268,969. CO-OPERATIVE GRANGE LEAGUE FEDERATION EXCHANGE, INC., Syracuse, N. Y. Filed July 2, 1928.

G. L. F.

For Feeds for Horses, Cattle, Poultry, and Other Animals Commonly Kept or Produced on Farms, and Ingredients for the Mixing and Preparation of the Same, Comprising Barley, Oats, Meal, Corn, Wheat, and Feed Seeds.
Claims use since July 1, 1921.

Ser. No. 268,997. MIZUO OYAMA, doing business as The General Producing Company, Honolulu, Territory of Hawaii. Filed July 2, 1928.

MIGEN

For Epicurean Powder Used in Flavoring and Seasoning all Foodstuffs.
Claims use since Jan. 1, 1928.

Ser. No. 269,033. NORTHWESTERN DISTRIBUTING CO. INC., Mason City, Iowa. Filed July 3, 1928.

MOR-GAIN

For Stock Foods of Different Kinds—Namely Pig Meal, Dairy Feed, and Dairy Supplement; Poultry Feeds—Namely, Laying Mash, Starter Mash, Growing Mash, Chick Feed, Scratch Feed.
Claims use since October, 1927.

Ser. No. 269,034. NORTHWESTERN DISTRIBUTING CO. INC., Mason City, Iowa. Filed July 3, 1928.

NORTHWESTERN MOR-GAIN

For Foods of Different Kinds—Namely, Pig Meal, Dairy Feed, and Dairy Supplement; Poultry Feeds—Namely, Laying Mash, Starter Mash, Growing Mash, Chick Feed, Scratch Feed.
Claims use since October, 1927.

Ser. No. 269,496. VAL BLATZ BREWING CO., Milwaukee, Wis. Filed July 12, 1928.

NORLAND

For Malt Syrup.
Claims use since June 6, 1928.

Ser. No. 269,583. M. H. GREENEBAUM, INC., New York, N. Y. Filed July 14, 1928.



No claim is made to the exclusive use of the words "Brand" and "Quality" apart from the mark shown in the drawing.
For Hams, Sausages, Frankfurters, and Bacon.
Claims use since January, 1923.

Ser. No. 269,807. TEA GARDEN PRODUCTS CO., San Francisco, Calif. Filed July 18, 1928.

LIBERTY BELL



For Cane and Maple Syrup.
Claims use since July 10, 1920.

Ser. No. 270,008. GEORGE H. BOWEN, Boston, Mass. Filed July 23, 1928.

WOW

For Dog Biscuits and Dog Cereals.
Claims use since June 11, 1928.

Ser. No. 270,064. VOGLER-SCHILLO COMPANY, Chicago, Ill. Filed July 23, 1928. Under 10-year proviso.

ARLINGTON

For Pickles.
Claims use since 1883.

Ser. No. 270,147. THE RUBYETTE CO., San Francisco, Calif. Filed July 25, 1928.

RUBYETTE

For Pound Cake, Fruit Cake, Loaf Cake, Cup Cake, Cream Pie.
Claims use since Dec. 20, 1927.

Ser. No. 270,433. AKTIEBOLAGET KARLSTADS SPISBRODSFABRIK, Karlstad, Sweden. Filed Aug. 2, 1928.



No claim is made to the word "Wärmlansbröd" apart from the mark shown on the drawing.
For Bread.
Claims use since February, 1911.

Ser. No. 270,475. FRUIT PRODUCTS COMPANY OF FLORIDA, Eagle Lake, Fla. Filed Aug. 2, 1928.

FLORAGOLD
BRAND

The word "Brand" is disclaimed apart from the other features of the mark shown in the drawing.
For Canned Grapefruit Juice and Canned Orange Juice for Food Purposes.
Claims use since July 10, 1928.

Ser. No. 270,476. FRUIT PRODUCTS COMPANY OF FLORIDA, Eagle Lake, Fla. Filed Aug. 2, 1928.

FLORIDAGOLD
BRAND

The word "Brand" is disclaimed apart from the other features of the mark shown in the drawing.
For Grapefruit Juice and Orange Juice for Food Purposes.
Claims use since 1925.

Ser. No. 270,509. ROSEDALE MILLING CO., Rosedale, Kansas City, Kans. Filed Aug. 2, 1928.

LADY LUCK

For Wheat Flour.
Claims use since May 29, 1928.

Ser. No. 270,578. ESKIMO PIE CORPORATION, Louisville, Ky. Filed Aug. 4, 1928.

ESKIMO FRUIT PIE

Applicant disclaims the word "Fruit" apart from the mark as shown in the drawing.
For Ice Cream and Candy Confection.
Claims use since May 1, 1928.

Ser. No. 270,699. THE R. T. FRENCH COMPANY, Rochester, N. Y. Filed Aug. 7, 1928.



For Herbs, Spices, Anise Seed, Cardamon Seed, Cominos Seed, Caraway Seed, Celery Seed, Dill Seed, Fennel Seed, Mustard Seed, Poppy Seed, Sweet Oil, Flavoring Extracts, Flavors, All of the Foregoing Being Used in the Preparation of or as Ingredients of Foods, Prepared Mustard, Mayonnaise, Sausage Seasoning, Coffee, Peanut Butter, and Worcestershire Sauce.
Claims use since July 1, 1904, on prepared mustard; on herbs, spices, extracts, flavors, colors, and sweet oil since July 1, 1918; on seeds since July 1, 1919; on sausage seasoning since July 1, 1920; on mayonnaise since July 1, 1921; on Worcestershire sauce since July 1, 1922; and on peanut butter and coffee since July 1, 1927.

Ser. No. 270,976. P. PASTENE & CO., INC., also doing business as Purity Products Company, Boston, Mass. Filed Aug. 13, 1928.

'LA NAPOLETANA.

For Macaroni.
Claims use since May 4, 1928.

Ser. No. 271,155. VINO BAR CORPORATION OF AMERICA, Los Angeles, Calif. Filed Aug. 16, 1928.

VNO

For Candy and Candy Confections.
Claims use since Sept. 1, 1927.

Ser. No. 271,280. TINDLE MILLING COMPANY, Springfield, Mo. Filed Aug. 18, 1928.

TYMO FEEDS

No claim is made to the word "Feeds" apart from the mark shown in the drawing.
For Dairy Feed, Mixed Feed, Horse and Mule Feed, Cream Meal, Egg Mash, Scratch Feed, Developing Cream, Starting and Growing Mash, and Baby-Chick Scratch.
Claims use since June, 1928.

Ser. No. 271,289. H. C. BRILL COMPANY, INC., Newark, N. J. Filed Aug. 20, 1928.

BRILL'S REA-LEMON

Applicant disclaims the word "Lemon" as part of the trade-mark.
For Pie Filling.
Claims use since May 26, 1928.

Ser. No. 271,332. THE ASSOCIATED FRUIT COMPANY, Delta Colo. Filed Aug. 21, 1928.

PAPOOSE

For Fresh Apples.
Claims use since September, 1919.

Ser. No. 271,366. SUTTER PACKING COMPANY, Mayfield, Calif. Filed Aug. 21, 1928.

Sutter's Gold

For Canned Fruits.
Claims use since Aug. 6, 1928.

Ser. No. 271,386. HENRY MAILLARD, INC., Long Island City, N. Y. Filed Aug. 22, 1928.

BLACK DEVILS

For Candy.
Claims use since July 25, 1928.

Ser. No. 271,569. WILLIAM RYDBERG, doing business as William Rydberg Baking Company, Cambridge, Mass. Filed Aug. 25, 1928.



Exclusive use of the phrase "A Distinct Aid to Health" apart from the mark shown in the drawing is disclaimed.
For Bread, Crackers, Sugar Rusk Zwieback, and Cinnamon Rusk Zwieback.
Claims use since May 14, 1925.

Ser. No. 271,849. GODCHAUX SUGARS, INC., doing business as Belle Pointe Dairy, New Orleans, La. Filed Sept. 1, 1928.



No claim is made to the words "Special Hygienic" apart from the mark as shown.
For Bottled Fresh Milk.
Claims use since February, 1921.

Ser. No. 271,856. KANSAS CITY MACARONI & IMPORTING CO., doing business as The Heart of America Macaroni Company, Kansas City, Mo. Filed Sept. 1, 1928.

Old Gold

For Macaroni.
Claims use since June 1, 1928.

Ser. No. 271,915. DANIEL P. BOEHM, Brooklyn, N. Y. Filed Sept. 5, 1928.

DANBO

For Butter, Eggs, and Dressed and Live Poultry.
Claims use since August, 1918.

Ser. No. 272,011. WESTERN LIME STONE PRODUCTS COMPANY, Omaha, Nebr. Filed Sept. 6, 1928.

CAL-CARBO

For Pulverized Limestone for Stock Foods.
Claims use since June 15, 1926.

Ser. No. 272,038. MRS. O. A. KNIGHT, Omaha, Nebr. Filed Sept. 7, 1928.



For Mayonnaise, Thousand Island Dressing, and Nut Spread.
Claims use since Dec. 5, 1926.

Ser. No. 272,045. ANTONIO MUNOZ MUNOZ, Murcia, Spain. Filed Sept. 7, 1928.

EL AUTOMOVIL

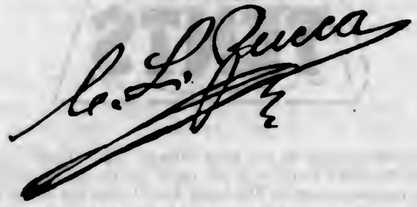
For Pepper.
Claims use since 1912.

Ser. No. 272,052. OLYMPIA CANNING COMPANY, Olympia, Wash. Filed Sept. 7, 1928.

WELLWORTH

For Canned Vegetables.
Claims use since May, 1918.

Ser. No. 272,089. ZUCCA'S RESTAURANT INC., doing business as Zucca's Italian Gardens, New York, N. Y. Filed Sept. 8, 1928.



The trade-mark consists of the signature of C. L. Zucca, president of applicant corporation.
For Prepared Foods—Namely, Canned Soups.
Claims use since Aug. 24, 1928.

Ser. No. 272,119. N. AGER & SONS, Atlantic City, N. J. Filed Sept. 10, 1928.

BOARDWALK

For Canned Evaporated Milk; Canned Fruits—Namely, Apricots, Pineapple, Pears, Peaches, Fruits for Salad, and Cherries; Canned Fish—Namely, Shrimp; and Canned Vegetables—Namely, Asparagus Tips, Spinach, Peas, and Corn.
Claims use since 1924.

Ser. No. 272,251. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, San Francisco, Calif. Filed Sept. 12, 1928.

C and H

For Raw and Refined Sugars.
Claims use since Jan. 1, 1897.

Ser. No. 272,275. A. HUTMACHER AKTIENGESELLSCHAFT, CONFISERIE & BISCUITSFABRIC, STALDEN I/E., Stalden, Switzerland. Filed Sept. 12, 1928.

„GRIESALP"

For Ice-Cream Bonbons.
Claims use since May 1, 1926.

Ser. No. 272,497. IOWA PACKING COMPANY, Des Moines, Iowa. Filed Sept. 15, 1928.

IPACO

For Hog Feed.
Claims use since Feb. 8, 1919.

Ser. No. 272,593. WILLIAMSON CANDY CO., Chicago, Ill. Filed Sept. 17, 1928.

Big Hearted "AL"

For Candy.
Claims use since Sept. 4, 1928.

Ser. No. 272,610. THOS. HALL & SONS, Portland, Oreg. Filed Sept. 18, 1928.

INTERNATIONAL

For Fresh Deciduous Fruits.
Claims use since Dec. 22, 1927.

Ser. No. 272,624. SEQUOIA FOOTHILL FRUIT GROWERS, Woodlake, Calif. Filed Sept. 18, 1928.

7-11

For Fresh Grapes.
Claims use since June 5, 1928.

Ser. No. 272,816. KEEBLER WEYL BAKING CO., Philadelphia, Pa. Filed Sept. 22, 1928.

PETITES

For Biscuits.
Claims use since July 24, 1928.

Ser. No. 272,888. JOHN HUBER, Rock Hall, Md. Filed Sept. 24, 1928.

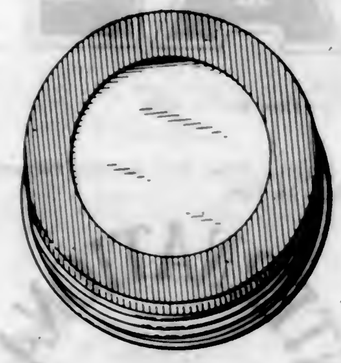
WAT A JOY

For Cakes.
Claims use since Aug. 5, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 253,621. EMPIRE METAL CAP CO., INC., Brooklyn, N. Y. Filed Aug. 17, 1927.



The trade-mark consists of a circle of red bordering the top and side of the cap. No claim is made to the representation of the cap.
For Sheet-Metal Caps for Bottles and Jars.
Claims use since about Mar. 1, 1926.

Ser. No. 258,972. ROSCOE F. WARREN, Los Angeles, Calif. Filed Dec. 15, 1927.

Ranger Riley RR

Applicant disclaims the name "Riley" except as used in the mark as shown.
For Camping Equipment—Namely, Tents, Combination Pup Tents, Bed Tarp and Mandy, Mandies, Pack Covers, Duffle Rolls, Pup-Tent Rolls.
Claims use since Nov. 3, 1927.

Ser. No. 268,638. SIOUX CITY TENT AND AWNING CO., Sioux City, Iowa. Filed June 25, 1928.

SIOUX (BRAND) TENTS

Exclusive right to the word "Brand" and "Tents" apart from the other features of the mark are hereby disclaimed. The representation of the tents apart from the other features of the mark is hereby disclaimed.
For Tents.
Claims use since May 25, 1928.

Ser. No. 271,488. GRAHAM METAL MANUFACTURING COMPANY, Kansas City, Mo. Filed Aug. 24, 1928.

HANTITE

For Bottle Caps.
Claims use since July 9, 1928.

Ser. No. 271,489. GRAHAM METAL MANUFACTURING COMPANY, Kansas City, Mo. Filed Aug. 24, 1928.

MIXIT

For Bottle Caps.
Claims use since Jan. 1, 1928.

Ser. No. 271,590. BENNETT PUMPS CORPORATION, Muskegon, Mich. Filed Aug. 27, 1928.

CAR BAR

For Canopy Structure.
Claims use since on or about July 1, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 30, 1928.

248,653. MEN'S AND CHILDREN'S UNDERWEAR AND NIGHT WEAR—NAMELY, UNION SUITS, DRAWERS, NIGHTSHIRTS, AND PAJAMAS MADE OF WOVEN TEXTILES. SEXTON MANUFACTURING COMPANY, Fairfield, Ill.
Filed March 19, 1928. Serial No. 263,432. PUBLISHED JULY 24, 1928. Class 39.

248,654. SILK PIECE GOODS, PLAIN OR FANCY OR BROCADED. COUDURIER, FRUCTUS & DESCHER, Lyon, France.
Filed March 22, 1928. Serial No. 263,587. PUBLISHED AUGUST 14, 1928. Class 42.

248,655. CERTAIN TEXTILE ARTICLES. MANUFACTURE FRANÇAISE DE TAPIS ET COUVERTURES, Beauvais, France.
Filed March 17, 1928. Serial No. 263,327. PUBLISHED AUGUST 7, 1928. Class 42.

248,656. INSULATOR-SUPPORTING PINS. LOCKE INSULATOR CORPORATION, Baltimore, Md.
Filed March 16, 1928. Serial No. 263,274. PUBLISHED AUGUST 14, 1928. Class 21.

248,657. MEN'S AND BOYS' SOCKS OR HALF HOSE. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J.
Filed March 14, 1928. Serial No. 263,155. PUBLISHED JULY 24, 1928. Class 39.

248,658. CERTAIN TEXTILE CLOTHS AND FABRICS. SIBSON & STERN, INC., Philadelphia, Pa.
Filed March 1, 1928. Serial No. 262,490. PUBLISHED JULY 31, 1928. Class 42.

248,659. TONE ARMS FOR TALKING MACHINES. ASTRAL RADIO CORPORATION, Philadelphia, Pa.
Filed February 21, 1928. Serial No. 262,014. PUBLISHED AUGUST 14, 1928. Class 36.

248,660. MEN'S AND BOYS' CLOTHING—NAMELY, MACKINAWS, OVERCOATS, STOCKINGS, OUTER WOOLEN SHIRTS, AND SWEATERS. PENDLETON WOOLEN MILLS, Portland, Oreg.
Filed February 17, 1928. Serial No. 261,834. PUBLISHED JULY 24, 1928. Class 39.

248,661. MEN'S DRESS AND NEGLIGEE SHIRTS, PAJAMAS, AND LOUNGING ROBES. ALEXANDER S. FEINGOLD, doing business as A. S. Feingold & Co., Philadelphia, Pa.
Filed February 15, 1928. Serial No. 261,706. PUBLISHED AUGUST 7, 1928. Class 39.

248,662. ELECTRIC CONTROLLERS FOR MOTORS, AUTOMATIC STARTERS AND CONTROL DEVICES FOR MOTORS. ELECTRICAL SWITCHES. HATCHWAY JUNCTION BOXES, BRAKE MAGNETS, FLOOR SELECTORS, PUSH-BUTTON STATIONS, AND DOOR INTERLOCKS. C. J. ANDERSON & Co., Chicago, Ill.
Filed February 13, 1928. Serial No. 261,602. PUBLISHED AUGUST 14, 1928. Class 21.

248,663. WOVEN AND KNITTED FABRICS OF WOOL, COTTON, SILK, AND ARTIFICIAL SILK IN THE PIECE. A. ROBERT WIELAND, Auerbach, near Chemnitz, Germany.
Filed February 10, 1928. Serial No. 261,543. PUBLISHED AUGUST 7, 1928. Class 42.

248,664. MEN'S AND BOYS' COATS, WOMEN'S AND GIRLS' COATS. CARTER & CHURCHILL CO., Lebanon, N. H.
Filed March 30, 1928. Serial No. 264,067. PUBLISHED JULY 10, 1928. Class 39.

248,665. COTTON PIECE GOODS AND SHADE CLOTH. ALBERT D. SMITH & Co., New York, N. Y.
Filed March 29, 1928. Serial No. 263,974. PUBLISHED AUGUST 7, 1928. Class 42.

248,666. OVERALLS. THE GREAT EASTERN MANUFACTURING COMPANY, Philadelphia, Pa.
Filed March 29, 1928. Serial No. 263,942. PUBLISHED AUGUST 14, 1928. Class 39.

248,667. CHILDREN'S UNDERWEAR AND NIGHT WEAR—NAMELY, UNION SUITS AND SLEEPERS MADE OF WOVEN TEXTILES. SEXTON MANUFACTURING COMPANY, Fairfield, Ill.
Filed March 24, 1928. Serial No. 263,728. PUBLISHED JULY 24, 1928. Class 39.

248,668. COTTON CLOTH OF OPEN TEXTURE IN THE PIECE. BOOTT MILLS, Lowell, Mass.
Filed March 23, 1928. Serial No. 263,636. PUBLISHED AUGUST 7, 1928. Class 42.

248,669. MEN'S AND BOYS' CLOTHING—NAMELY, OVERCOATS, COATS, VESTS, AND TROUSERS. MAY DEPARTMENT STORES COMPANY, New York, N. Y.
Filed April 4, 1928. Serial No. 264,316. PUBLISHED JUNE 19, 1928. Class 39.

248,670. PIECE GOODS MADE OF SILK, COTTON, AND WOOL. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed April 4, 1928. Serial No. 264,300. PUBLISHED AUGUST 14, 1928. Class 42.

248,671. AUTOMATIC SHOTGUNS. BROWNING BROTHERS COMPANY, Ogden, Utah.
Filed April 16, 1928. Serial No. 264,867. PUBLISHED AUGUST 7, 1928. Class 9.

248,672. CLOTHS AND STUFFS OF WOOL, WORSTED, OR HAIR IN THE PIECE. JOHN G. HARDY LIMITED, London, England, assignor to John G. Hardy Corporation, New York, N. Y.
Filed April 13, 1928. Serial No. 264,756. PUBLISHED AUGUST 7, 1928. Class 42.

248,673. MEN'S, YOUTHS', AND BOYS' WEARING APPAREL—NAMELY, NECKTIES, MUFFLERS, CRAVATS, STOCKS, SCARFS, AND REEFERS OR SUBSTANTIALLY RECTANGULAR HALF-SQUARE MUFFLERS. RICE-STIX DRY GOODS CO., St. Louis, Mo.
Filed April 5, 1928. Serial No. 264,384. PUBLISHED AUGUST 7, 1928. Class 39.

248,674. BLACK AND GALVANIZED STEEL SHEETS. WHEELING STEEL CORPORATION, Wheeling, W. Va.
Filed April 12, 1928. Serial No. 264,741. PUBLISHED AUGUST 7, 1928. Class 14.

248,675. FERTILIZERS. M. P. HUBBARD & COMPANY, INC., Baltimore and Curtis Bay, Md., and Norfolk, Va.
Filed May 5, 1928. Serial No. 265,967. PUBLISHED JUNE 26, 1928. Class 10.

248,676. ELECTRIC WATER HEATERS. BASTIAN-MORLEY CO., also doing business as Gas and Electric Heater Co., La Porte, Ind.
Filed May 24, 1928. Serial No. 266,910. PUBLISHED AUGUST 14, 1928. Class 21.

248,677. STORAGE, DISSOLVING, AND TRANSPORT VESSELS OR TANKS, CASINGS, AND CYLINDERS, ALL MADE OF OR PROVIDED WITH COATINGS AND LININGS WHICH ARE CHEMICALLY RESISTANT AND COMPOSED OF PLASTIC COMPOSITIONS. SÄURESCHUTZ-GESELLSCHAFT M. B. H., Berlin-Alt Glienicke, Germany.
Filed May 23, 1928. Serial No. 266,890. PUBLISHED AUGUST 21, 1928. Class 2.

248,678. TUBES, PIPES, VALVES, FAUCETS, AND PIPE FITTINGS, ALL MADE OF OR PROVIDED WITH COATINGS AND LININGS WHICH ARE CHEMICALLY RESISTANT AND COMPOSED OF PLASTIC COMPOSITIONS. SÄURESCHUTZ-GESELLSCHAFT M. B. H., Berlin-Alt Glienicke, Germany.
Filed May 23, 1928. Serial No. 266,888. PUBLISHED AUGUST 21, 1928. Class 13.

248,679. OVERALLS AND ONE-PIECE WORK AND PLAY SUITS. THE H. D. LEE MERCANTILE COMPANY, Kansas City, Mo.
Filed May 23, 1928. Serial No. 266,865. PUBLISHED JULY 24, 1928. Class 39.

248,680. BASE-METAL CONTAINERS FOR CIGARETTES. SPANG NOVELTY CORPORATION, New York, N. Y.
Filed May 22, 1928. Serial No. 266,834. PUBLISHED AUGUST 14, 1928. Class 8.

248,681. ALUMINUM WARE. ALUMINUM GOODS MANUFACTURING CO., Manitowoc, Wis.
Filed May 22, 1928. Serial No. 266,775. PUBLISHED AUGUST 21, 1928. Class 13.

248,682. SECTIONAL TRUNKS CAPABLE OF BEING USED AS FURNITURE. CHARLES HINDS, doing business as Sectionler Company, Wilmington, Calif.
Filed May 22, 1928. Serial No. 266,773. PUBLISHED AUGUST 14, 1928. Class 3.

248,683. MOTOR TRUCKS AND CONSTRUCTIVE PARTS THEREOF. DIVCO-DETROIT CORPORATION, Detroit, Mich.
Filed May 21, 1928. Serial No. 266,718. PUBLISHED AUGUST 21, 1928. Class 19.

248,684. AUTOMOBILES AND STRUCTURAL PARTS THEREOF. THE NASH MOTORS COMPANY, Kenosha, Wis.
Filed May 19, 1928. Serial No. 266,680. PUBLISHED AUGUST 21, 1928. Class 19.

248,685. RICE FLAKES. STANDARD RICE COMPANY, INC., Houston, Tex.
Filed May 17, 1928. Serial No. 266,564. PUBLISHED AUGUST 14, 1928. Class 46.

248,686. LINOLEUM AND FELT-BASE FLOOR COVERINGS. ARMSTRONG CORK COMPANY, Pittsburgh and Lancaster, Pa.
Filed May 17, 1928. Serial No. 266,508. PUBLISHED AUGUST 14, 1928. Class 20.

248,687. PIECE GOODS OF COTTON, SILK, WOOL, LINEN, RAYON, AND PAPER FABRICS. WINDRAM MANUFACTURING CO., South Boston, Mass.
Filed May 16, 1928. Serial No. 266,503. PUBLISHED AUGUST 7, 1928. Class 42.

248,688. AUTOMOBILES AND STRUCTURAL PARTS THEREOF. THE NASH MOTORS COMPANY, Kenosha, Wis.
Filed May 16, 1928. Serial No. 266,471. PUBLISHED AUGUST 21, 1928. Class 19.

248,689. LINOLEUM AND OILED CLOTH. SLATER'S GLOBE CARPET & LINOLEUM CO. INC., Paterson, N. J.
Filed May 15, 1928. Serial No. 266,442. PUBLISHED AUGUST 7, 1928. Class 20.

248,690. PERFUMES. ISABEY PARIS, INC., Wilmington, Del., and New York, N. Y.
Filed May 15, 1928. Serial No. 266,428. PUBLISHED JUNE 26, 1928. Class 6.

248,691. MEN'S AND BOYS' KNITTED SPORT COATS AND SWEATERS, KNITTED KNICKERS, AND KNITTED VESTS. HOPE KNITTING CO., Cohoes, N. Y.
Filed May 15, 1928. Serial No. 266,426. PUBLISHED JULY 24, 1928. Class 39.

248,692. HOSIERY. ELINOR T. ABEL, doing business as The Elinor Shop, Washington, D. C.
Filed May 14, 1928. Serial No. 266,343. PUBLISHED JULY 24, 1928. Class 39.

248,693. ATHLETIC UNDERWEAR, NIGHTSHIRTS, AND PAJAMAS COMPOSED OF TEXTILE FABRIC, ALL FOR MALE AND FEMALE WEAR. STADIUM UNDERWEAR COMPANY, INC., Baltimore, Md.
Filed May 12, 1928. Serial No. 266,338. PUBLISHED AUGUST 7, 1928. Class 39.

248,694. MEN'S AND BOYS' NEGLIGEE, DRESS, AND WORK SHIRTS, PAJAMAS, NIGHTSHIRTS, MEN'S AND BOYS' TEXTILE UNDERWEAR; MEN'S AND BOYS' COATS, PANTS, AND VESTS. TYSON SHIRT CO., Norristown, Pa.
Filed May 12, 1928. Serial No. 266,334. PUBLISHED JULY 24, 1928. Class 39.

248,695. MEN'S AND BOYS' WORK, DRESS, AND NEGLIGEE SHIRTS; PAJAMAS, NIGHTSHIRTS, LADIES' WAISTS, MEN'S AND BOYS' TEXTILE UNDERWEAR, MEN'S AND BOYS' SUITS OF TWO AND THREE PIECES. TYSON SHIRT CO., Norristown, Pa.
Filed May 12, 1928. Serial No. 266,333. PUBLISHED AUGUST 7, 1928. Class 39.

248,696. PAPER GOWNS FOR PROTECTION AGAINST COMMUNICABLE DISEASES. WILLIAM KLEINBERG, doing business as Clara Barton Nurses' Apparel, Rochester, N. Y.
Filed May 12, 1928. Serial No. 266,325. PUBLISHED JULY 31, 1928. Class 39.

248,697. HOSIERY. SAM BERKOWITZ, doing business as Royal Blue Hosiery Co., New York, N. Y.
Filed May 11, 1928. Serial No. 266,235. PUBLISHED AUGUST 7, 1928. Class 39.

248,698. BICYCLES. THE CUTHBELL COMPANY, INCORPORATED, Norfolk, Va.
Filed May 10, 1928. Serial No. 266,192. PUBLISHED AUGUST 21, 1928. Class 19.

248,699. COTTON PIECE GOODS. NEUSS HESSLEIN & CO. INC., New York, N. Y.
Filed May 7, 1928. Serial No. 266,039. PUBLISHED JULY 31, 1928. Class 42.

248,700. TROUSERS FOR MEN OR BOYS. MEYER BERMAN, doing business as M. Berman & Son, New York, N. Y.
Filed May 5, 1928. Serial No. 265,941. PUBLISHED JULY 24, 1928. Class 39.

248,701. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY, AND UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS. E. M. TOWNSEND & CO., New York, N. Y.
Filed May 4, 1928. Serial No. 265,936. PUBLISHED JULY 31, 1928. Class 39.

248,702. OVERALLS, JACKETS, PANTS, AND ONE-PIECE WORK SUITS. P-K MANUFACTURING COMPANY, Kansas City, Mo.
Filed May 4, 1928. Serial No. 265,923. PUBLISHED JULY 24, 1928. Class 39.

248,703. ELECTRICAL EQUIPMENT COMPRISING ELECTRON TUBES AND FLASH LIGHTS. DIAMOND ELECTRIC CORPORATION, Newark, N. J.
Filed May 4, 1928. Serial No. 265,874. PUBLISHED AUGUST 14, 1928. Class 21.

248,704. MEN'S, WOMEN'S, AND CHILDREN'S SLEEPING GARMENTS—NAMELY, GOWNS, PAJAMAS, AND NIGHTSHIRTS MADE OF FLANNELETTE, MUSLIN, AND CREPE MATERIALS. FRIEDMAN & FRIEDMAN, Brooklyn, N. Y.
Filed May 3, 1928. Serial No. 265,871. PUBLISHED JULY 24, 1928. Class 39.

248,705. LADIES' GOWNS, WRAPS, SCARVES, COATS, AND NEGLIGEES. JULIE STURGIS, New York, N. Y.
Filed May 3, 1928. Serial No. 265,862. PUBLISHED JULY 24, 1928. Class 39.

248,706. COTTON ATHLETIC UNDERWEAR FOR MEN, BOYS, AND CHILDREN. REGATTA MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed May 2, 1928. Serial No. 265,806. PUBLISHED JULY 17, 1928. Class 39.

248,707. MEN'S AND BOYS' OVERALLS, OVERALL JACKETS, COVERALLS OR COMBINATION WORK SUITS, WORK SHIRTS, AND LUMBERJACKS. D. M. OBERMAN MFG. CO., Jefferson City, Mo.
Filed May 2, 1928. Serial No. 265,800. PUBLISHED JULY 24, 1928. Class 39.

248,708. OVERALLS, COATS, PANTS, COVERALLS, AND WORK SHIRTS FOR MEN AND BOYS. BEAL-BURROW DRY GOODS CO., Little Rock, Ark.
Filed May 2, 1928. Serial No. 265,774. PUBLISHED AUGUST 14, 1928. Class 39.

248,709. PLAY SUITS, CHILDREN'S WASH SUITS, AND OVERALLS. BATAVIA GARMENT CORPORATION, Batavia, N. Y.
Filed May 2, 1928. Serial No. 265,773. PUBLISHED JULY 24, 1928. Class 39.

248,710. ELECTRIC COOKERS AND BAKERS. LITE RAY UTILITIES CORPORATION, also doing business as Lite-Rays Cooker Co., Plainfield, N. J.
Filed April 30, 1928. Serial No. 265,668. PUBLISHED AUGUST 14, 1928. Class 21.

248,711. COATS, VESTS, TROUSERS, KNICKERBOCKERS, TOPCOATS, AND OVERCOATS FOR MEN, YOUTHS, AND BOYS. J. SCHOENEMAN, INCORPORATED, Baltimore, Md.
Filed April 26, 1928. Serial No. 265,455. PUBLISHED AUGUST 7, 1928. Class 39.

248,712. SILK PIECE GOODS. OSTROW-RELMAN SILK CORPORATION, New York, N. Y.
Filed April 23, 1928. Serial No. 265,288. PUBLISHED AUGUST 14, 1928. Class 42.

248,713. HANDMADE HANDKERCHIEFS. MRS. W. H. ROCHESTER, Enid, Okla.
Filed April 17, 1928. Serial No. 265,014. PUBLISHED JULY 31, 1928. Class 42.

248,714. UNDERWEAR OF KNITTED AND TEXTILE FABRICS FOR MEN, WOMEN, AND CHILDREN—NAMELY, SHIRTS, DRAWERS, UNION SUITS, AND BLOOMERS; WEARING APPAREL FOR MEN, WOMEN, AND CHILDREN—NAMELY, SWEATERS, BLOUSES, BATH ROBES, LUMBERJACKETS, DRESS, NEGLIGEE, AND WORK TOP SHIRTS. SAMUEL VIENER, New York, N. Y.
Filed April 16, 1928. Serial No. 264,931. PUBLISHED JULY 24, 1928. Class 39.

248,715. BOILER REPAIR PLUGS. SPEARHEAD BOILER PLUG INC., Cleveland, Ohio.
Filed December 12, 1927. Serial No. 258,838. PUBLISHED AUGUST 21, 1928. Class 13.

248,716. CHEESE PRODUCT CONTAINING MILK SUGAR AND MINERAL SALTS. KRAFT CHEESE COMPANY, now, by change of name, Kraft-Phenix Cheese Company, Chicago, Ill.
Filed December 9, 1927. Serial No. 258,693. PUBLISHED JANUARY 31, 1928. Class 46.

248,717. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. ALPHA GAMMA DELTA FRATERNITY, New York, N. Y.
Filed December 8, 1927. Serial No. 258,615. PUBLISHED AUGUST 14, 1928. Class 28.

248,718. CERTAIN PORCELAIN WARE AND CROCKERY. PORCELAIN PRODUCTS, INC., Findlay, Ohio.
Filed December 1, 1927. Serial No. 258,287. PUBLISHED AUGUST 7, 1928. Class 30.

248,719. AUTOMATIC COAL BURNERS. IRON FIREMAN MANUFACTURING COMPANY, Portland, Oreg.
Filed November 28, 1927. Serial No. 258,128. PUBLISHED AUGUST 21, 1928. Class 34.

248,720. COTTON PIECE GOODS. VILLAMIL & GONZALEZ, Buenos Aires, Argentina.
Filed November 22, 1927. Serial No. 257,949. PUBLISHED AUGUST 14, 1928. Class 42.

248,721. TRAVELING BAGS, HAND BAGS, TRUNKS, POCKETBOOKS, SUITCASES, BILL FOLDS, PORTFOLIOS, AND TRAVELING KITS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed November 17, 1927. Serial No. 257,690. PUBLISHED AUGUST 14, 1928. Class 3.

248,722. TROUSERS AND KNICKERS FOR STREET AND GENERAL WEAR. HILLSIDE COTTON MILLS, Lagrange, Ga., and Roanoke, Ala.
Filed August 31, 1927. Serial No. 254,216. PUBLISHED AUGUST 14, 1928. Class 39.

248,723. BOYS' COATS, VESTS, AND TROUSERS. MAY DEPARTMENT STORES COMPANY, New York, N. Y.
Filed July 26, 1927. Serial No. 252,560. PUBLISHED OCTOBER 18, 1927. Class 39.

248,724. MEN'S KNITTED NECKTIES, MUFFLERS, AND LADIES' SCARFS. ASSAD ABOOD, doing business as Abood Knitting Mills, New York, N. Y.
Filed May 27, 1927. Serial No. 249,631. PUBLISHED JULY 26, 1927. Class 39.

248,725. PAJAMAS. BERNARD S. ROLAND, New York, N. Y.
Filed May 14, 1927. Serial No. 249,023. PUBLISHED AUGUST 7, 1928. Class 39.

248,726. PORTABLE ELECTRIC LIGHTS. BRADY MANUFACTURING CO., Detroit, Mich.
Filed May 12, 1927. Serial No. 248,874. PUBLISHED AUGUST 14, 1928. Class 21.

248,727. CORNSTARCH, WHEAT FLOUR, JELLIES, ETC. C. W. PERSHALL & SONS, doing business as Tri-City Grocery Co. and Tri-City Packing Co., Granite City, Woodriver, Venice, and Edwardsville, Ill.
Filed May 9, 1927. Serial No. 248,718. PUBLISHED AUGUST 30, 1927. Class 46.

248,728. LADIES' CLOAKS. HUROWITZ & ERDRICH, New York, N. Y.
Filed May 4, 1927. Serial No. 248,411. PUBLISHED JULY 24, 1928. Class 39.

248,729. APRONS. MARTHA BROWN, Omaha, Nebr.
Filed April 21, 1927. Serial No. 247,774. PUBLISHED AUGUST 7, 1928. Class 39.

248,730. COTTON GOODS IN THE PIECE. G. H. STEGE JR. CO. INC., New York, N. Y.
Filed September 30, 1926. Serial No. 237,990. PUBLISHED AUGUST 7, 1928. Class 42.

248,731. FINGER RINGS. SALLAN INC., Detroit, Mich.
Filed September 4, 1926. Serial No. 236,893. PUBLISHED AUGUST 14, 1928. Class 28.

248,732. PAINT-CLEANING COMPOUNDS. SAMOLINE CORPORATION, Chicago, Ill.
Filed July 6, 1926. Serial No. 234,281. PUBLISHED JULY 31, 1928. Class 4.

248,733. HOSIERY. PENNSYLVANIA SILK HOSIERY MILLS, INC., Bangor, Pa.
Filed April 17, 1926. Serial No. 230,351. PUBLISHED OCTOBER 11, 1927. Class 39.

248,734. HANDMADE PAPER. CAMILLE H. BOULIN, doing business as Canson & Montgolfier, New York, N. Y.
Filed February 7, 1923. Serial No. 175,644. PUBLISHED AUGUST 9, 1927. Class 37.

248,735. CHEWING, SMOKING, SNUFFING TOBACCOS, CIGARS, AND CIGARETTES. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria.
Filed April 30, 1928. Serial No. 265,631. PUBLISHED AUGUST 21, 1928. Class 17.

248,736. ELECTRIC CONDENSERS PARTICULARLY FOR RADIO RECEIVER CIRCUITS. THE HAMMARLUND MANUFACTURING COMPANY, INC., New York, N. Y.
Filed December 8, 1927. Serial No. 238,634. PUBLISHED AUGUST 14, 1928. Class 21.

248,737. BOUILLON CUBES, BEEF EXTRACT, CANNED BEEF, ETC. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed September 17, 1927. Serial No. 254,854. PUBLISHED AUGUST 7, 1928. Class 46.

248,738. PILE DRIVERS, LOCOMOTIVE CRANES, CRAWLER CRANES, CONCRETE MIXERS, SHOVELS, CONVEYOR CABLEWAYS, TRACTOR CRANES; DIVING OUTFITS EXCEPT THE SUITS, HOSE LINES, AND CABLE LINES THEREOF; LOCOMOTIVES, DIPPER DREDGES, HYDRAULIC DREDGES, AND CLAMSHELL DREDGES, ALL EMPLOYED IN RIVER AND HARBOR IMPROVEMENTS. GREAT LAKES DREDGE & DOCK COMPANY, Chicago, Ill.
Filed July 21, 1927. Serial No. 252,382. PUBLISHED AUGUST 21, 1928. Class 23.

248,739. CHANGE-MAKING MACHINES. HEDMAN MANUFACTURING COMPANY, Chicago, Ill.
Filed December 9, 1926. Serial No. 241,227. PUBLISHED AUGUST 21, 1928. Class 26.

248,740. CHANGE-MAKING MACHINES. HEDMAN MANUFACTURING COMPANY, Chicago, Ill.
Filed December 9, 1926. Serial No. 241,226. PUBLISHED AUGUST 21, 1928. Class 26.

248,741. METAL-WORKING TAPS, SURFACE PLATES, AND LEADING SCREWS. THE IMPERIAL TRUST FOR THE ENCOURAGEMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, London, England.
Filed August 10, 1926. Serial No. 235,778. PUBLISHED AUGUST 21, 1928. Class 23.

248,742. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed June 16, 1928. Serial No. 268,134. PUBLISHED AUGUST 7, 1928. Class 39.

248,743. CLOTH IN THE PIECE MADE OF SILK AND COMBINATIONS OF SILK AND SYNTHETIC YARNS. VANITY FAIR SILK MILLS, Reading, Pa.
Filed June 15, 1928. Serial No. 268,125. PUBLISHED AUGUST 14, 1928. Class 42.

248,744. REPRODUCING GRAND PIANOS. M. SCHULZ CO., Chicago, Ill.
Filed June 15, 1928. Serial No. 268,115. PUBLISHED AUGUST 14, 1928. Class 36.

248,745. LADIES' AND MISSES' DRESSES. MARION R. JONES, Framingham, Mass.
Filed June 15, 1928. Serial No. 268,099. PUBLISHED AUGUST 7, 1928. Class 39.

248,746. COTTON SHEETS AND PILLOWCASES. GRANDE MAISON DE BLANC, INC., New York, N. Y.
Filed June 15, 1928. Serial No. 268,092. PUBLISHED JULY 31, 1928. Class 42.

248,747. HOSIERY. B. ALTMAN & CO., New York, N. Y.
Filed June 19, 1928. Serial No. 268,262. PUBLISHED AUGUST 14, 1928. Class 39.

248,748. WORSTED AND WOOLEN TEXTILE FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed June 18, 1928. Serial No. 268,226. PUBLISHED JULY 31, 1928. Class 42.

248,749. OIL, GAS, COAL, AND COKE FUEL HEATERS FOR HOT-WATER SUPPLY AND HOUSE-HEATING BOILERS FOR STEAM OR HOT WATER. ABENDROTH BROTHERS, Port Chester, N. Y.
Filed June 19, 1928. Serial No. 268,261. PUBLISHED AUGUST 21, 1928. Class 34.

248,750. IRONING BOARDS AND CLOTHES-DRYER CABINETS AND CLOTHES-DRYER RACKS. CONCEALO FIXTURE COMPANY, Oakland, Calif.
Filed June 18, 1928. Serial No. 268,214. PUBLISHED AUGUST 21, 1928. Class 24.

248,751. HOSIERY. CARTER DRY GOODS CO., Louisville, Ky.
Filed June 18, 1928. Serial No. 268,211. PUBLISHED AUGUST 14, 1928. Class 39.

248,752. HOSIERY. VERTEX HOSIERY MILLS, INC., Weissport, Pa.
Filed June 16, 1928. Serial No. 268,190. PUBLISHED AUGUST 14, 1928. Class 39.

248,753. RUBBER AND ASBESTOS MECHANICAL PACKINGS AND BELTS MADE OF LEATHER, RUBBER, AND COMPOSITIONS. UNITED STATES PRODUCTS CORPORATION, Birmingham, Ala.
Filed July 10, 1928. Serial No. 269,376. PUBLISHED AUGUST 21, 1928. Class 35.

248,754. MATTRESSES. SUPERIOR FELT & BEDDING CO., Chicago, Ill.
Filed July 9, 1928. Serial No. 269,331. PUBLISHED AUGUST 21, 1928. Class 32.

248,755. LEATHER BELTING. ATLANTA BELTING COMPANY, Atlanta, Ga.
Filed July 9, 1928. Serial No. 269,273. PUBLISHED AUGUST 21, 1928. Class 35.

248,756. WOODEN FURNITURE—NAMELY, CHAIRS, STOOLS, TABLES, TABORETS, WALL SHELVES, AND FLOWER STANDS. PI BETA PHI SETTLEMENT SCHOOL OF THE PI BETA PHI FRATERNITY, Gatlinburg, Tenn.
Filed July 5, 1928. Serial No. 269,144. PUBLISHED AUGUST 21, 1928. Class 32.

248,757. NONALCOHOLIC MALTLESS BEVERAGES. P. DE LA MONTANYA, doing business as Mount Rouge Company, San Francisco, Calif.
Filed July 5, 1928. Serial No. 269,099. PUBLISHED AUGUST 21, 1928. Class 45.

248,758. HAND DRILLS, BENCH GRINDERS, BENCH VISES, AND RATCHET BIT BRACES. W. T. GRANT COMPANY, doing business as Solar Mfg. Co., Lynn, Mass., and New York, N. Y.
Filed July 3, 1928. Serial No. 269,019. PUBLISHED AUGUST 21, 1928. Class 23.

248,759. HAND TOOLS—NAMELY, WRENCHES, CHISELS, SCREW DRIVERS, PLIERS, AND HAMMERS. THE BILLINGS & SPENCER COMPANY, Hartford, Conn.
Filed June 29, 1928. Serial No. 268,841. PUBLISHED AUGUST 21, 1928. Class 23.

248,760. PRECISION GRINDING MACHINES USED FOR THE PRODUCTION OF METAL ARTICLES. THE HEALD MACHINE COMPANY, Worcester, Mass.
Filed June 25, 1928. Serial No. 268,604. PUBLISHED AUGUST 21, 1928. Class 23.

248,761. OPHTHALMIC LENSES. CONTINENTAL OPTICAL CORPORATION, Indianapolis, Ind.
Filed June 25, 1928. Serial No. 268,588. PUBLISHED AUGUST 21, 1928. Class 26.

248,762. DISHWASHING APPLIANCE ADAPTED FOR OPERATION BY ATTACHMENT TO A FAUCET. R. H. MACY & CO., INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,504. PUBLISHED AUGUST 21, 1928. Class 23.

248,763. UNDERWATER PERISCOPES. THOMAS W. HICKS, doing business as The "Fish-An'-See" Co., South Minneapolis, Minn.
Filed June 22, 1928. Serial No. 268,496. PUBLISHED AUGUST 21, 1928. Class 26.

248,764. GINGER ALE. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed June 20, 1928. Serial No. 268,395. PUBLISHED AUGUST 21, 1928. Class 45.

248,765. DAY BEDS AND COTS. MAX MARWELL, Brooklyn, N. Y.
Filed June 11, 1928. Serial No. 267,848. PUBLISHED AUGUST 21, 1928. Class 32.

248,766. GARMENT PATTERNS. MRS. EDOUARD MIVILLE, née Emérontienne Smith, Victoriaville, Quebec, Canada.
Filed May 31, 1928. Serial No. 267,267. PUBLISHED AUGUST 21, 1928. Class 26.

248,767. AUTOMOBILE RIM TOOLS. HERCULES PRODUCTS COMPANY, St. Joseph, Mich.
Filed May 29, 1928. Serial No. 267,197. PUBLISHED AUGUST 21, 1928. Class 23.

248,768. AUTOMOBILE RIM TOOLS. HERCULES PRODUCTS COMPANY, St. Joseph, Mich.
Filed May 29, 1928. Serial No. 267,196. PUBLISHED AUGUST 21, 1928. Class 23.

248,769. TABLE CUTLERY OF BASE METAL, POCKET-KNIVES, SCISSORS, RAZORS; DIES FOR ENGRAVING, STAMPING, OR EMBOSSING STATIONERY. TIFFANY & COMPANY, New York, N. Y.
Filed May 26, 1928. Serial No. 267,093. PUBLISHED AUGUST 21, 1928. Class 23.

248,770. FLEXIBLE STEEL MEASURING TAPES, AERONAUTICAL AND MARINE COMPASSES, FIELD AND MARINE GLASSES, THERMOMETERS, AND BAROMETERS. TIFFANY & COMPANY, New York, N. Y.
Filed May 26, 1928. Serial No. 267,092. PUBLISHED AUGUST 21, 1928. Class 26.

248,771. SMOKING TOBACCO. COHEN, WEENEN & CO., LIMITED, London, England.
Filed May 25, 1928. Serial No. 266,975. PUBLISHED AUGUST 21, 1928. Class 17.

248,772. GASOLINE, CRUDE OIL, ILLUMINATING OIL, FUEL OIL, AND LUBRICATING OIL. H. F. WILCOX OIL & GAS COMPANY, Tulsa, Okla.
Filed May 11, 1928. Serial No. 266,290. PUBLISHED AUGUST 14, 1928. Class 15.

248,773. PHOTOGRAPHIC SENSITIZED PLATES, PHOTOGRAPHIC SENSITIZED FILMS, PHOTOGRAPHIC SENSITIZED PAPERS, CAMERAS AND PARTS THEREFOR, AND OBJECTIVES. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany.
Filed May 10, 1928. Serial No. 266,195. PUBLISHED AUGUST 21, 1928. Class 26.

248,774. REFRIGERATORS, REFRIGERATOR PARTS, AUTOMATIC REFRIGERATORS, AUTOMATIC REFRIGERATING PARTS, AND REFRIGERATING SYSTEMS. ELECTROLUX SERVEL CORPORATION, New York, N. Y.
Filed May 4, 1928. Serial No. 265,895. PUBLISHED AUGUST 21, 1928. Class 31.

248,775. DRESS AND NEGLIGEE SHIRTS FOR MEN AND BOYS. S. LIEBOVITZ & SONS, INC., New York, N. Y.
Filed June 5, 1928. Serial No. 267,496. PUBLISHED JULY 31, 1928. Class 39.

248,776. DOG FOOD. OLD TRUSTY DOG FOOD COMPANY, Needham Heights, Mass.
Filed June 4, 1928. Serial No. 267,448. PUBLISHED AUGUST 14, 1928. Class 46.

248,777. MEN'S DRESS AND WORK SHIRTS AND PAJAMAS. SAUL R. LIPPMAN & BRO., INC., New York, N. Y.
Filed June 4, 1928. Serial No. 267,430. PUBLISHED JULY 24, 1928. Class 39.

248,778. HOSIERY. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed June 4, 1928. Serial No. 267,405. PUBLISHED JULY 24, 1928. Class 39.

248,779. COAL OR WOOD BURNING HOUSEHOLD HEATER. PHILLIPS & BUTTORFF MFG. CO., Nashville, Tenn.
Filed June 2, 1928. Serial No. 267,385. PUBLISHED AUGUST 21, 1928. Class 34.

248,780. UNION SUITS, UNDERSHIRTS, AND DRAWERS FOR BOYS, ALL MADE OF KNITTED MATERIAL. JAMES T. JOHNSON, Jr., doing business as Sci-En-Tex Industries, Scranton, Pa.
Filed June 2, 1928. Serial No. 267,361. PUBLISHED JULY 24, 1928. Class 39.

248,781. PIECE GOODS MADE OF WOOL. ROUBAIX MILLS, INC., New York, N. Y.
Filed June 1, 1928. Serial No. 267,319. PUBLISHED AUGUST 7, 1928. Class 42.

248,782. LADIES', MISSES', AND CHILDREN'S TEXTILE UNDERWEAR IN ONE AND TWO PIECE GARMENTS. ABRAHAM RADINSKY, doing business as Porto Rican Undergarment Co., New York, N. Y.
Filed June 1, 1928. Serial No. 267,315. PUBLISHED AUGUST 7, 1928. Class 39.

248,783. WOMEN'S WEAR—NAMELY, COATS AND DRESSES. ALFRED J. LOWE, Los Angeles, Calif.
Filed June 1, 1928. Serial No. 267,307. PUBLISHED JULY 24, 1928. Class 39.

248,784. MEN'S SUITS, TOPCOATS, AND OVERCOATS. THE GRAFF COMPANY, INC., New York, N. Y.
Filed June 1, 1928. Serial No. 267,304. PUBLISHED JULY 24, 1928. Class 39.

248,785. CHILDREN'S, MISSES', CHILS', AND WOMEN'S DRESSES. GIMBEL BROTHERS, INC., New York, N. Y., Philadelphia, Pa., Milwaukee, Wis., and Pittsburgh, Pa.
Filed June 1, 1928. Serial No. 267,302. PUBLISHED JULY 24, 1928. Class 39.

248,786. MEN'S, WOMEN'S, AND CHILDREN'S SWEATERS; SWEATER COATS; AND MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed May 31, 1928. Serial No. 267,272. PUBLISHED AUGUST 7, 1928. Class 39.

248,787. RUBBER-SHEATHED PORTABLE ELECTRIC CORD. CRESCENT INSULATED WIRE & CABLE CO. INC., Trenton, N. J.
Filed May 31, 1928. Serial No. 267,244. PUBLISHED AUGUST 14, 1928. Class 21.

248,788. AUTOMATIC ELECTRIC TRAFFIC-CONTROL SYSTEMS. AUTOMATIC SIGNAL CORPORATION, New Haven, Conn.
Filed May 31, 1928. Serial No. 267,222. PUBLISHED AUGUST 14, 1928. Class 21.

248,789. NECKTIES. SMITH MORRIS INC., New York, N. Y.
Filed May 29, 1928. Serial No. 267,212. PUBLISHED AUGUST 14, 1928. Class 39.

248,790. CEREAL PRODUCTS—NAMELY, WHEAT FLOUR, GRAHAM FLOUR, YELLOW CORN MEAL, WHITE CORN MEAL, SCRATCH FEED FOR POULTRY, CHICK STARTER, LAYING MASH, GROWING MASH, CHICK GRAINS, WHOLE GRAINS, MIXED GRAINS, GROUND GRAINS, AND CRACKED GRAINS. H. STEEN & BRO., Baltimore, Md.
Filed May 28, 1928. Serial No. 267,149. PUBLISHED AUGUST 14, 1928. Class 46.

248,791. KNITTED AND WOVEN GOODS COMPRISING UNDERSHIRTS, UNDERDRAWERS, UNION SUITS, BATHING SUITS, SWEATERS, AND HOSIERY FOR MEN, WOMEN, AND CHILDREN, OF VARIOUS MATERIALS COMPRISING CASHMERE, CASHMERE WOOL, WOOL, MERINO, PURE LINEN, PURE SILK, SILK MIXED, COTTON, LISLE THREAD, AND RAYON OR ARTIFICIAL SILK AND MIXTURES OF THE SAME. AMERICAN HOSIERY COMPANY, New Britain, Conn.
Filed May 28, 1928. Serial No. 267,107. PUBLISHED JULY 24, 1928. Class 39.

248,792. MANGERS FOR METAL COW STALLS, CALF, BULL, AND HOG PENS, STOCK AND STORAGE TANKS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed May 26, 1928. Serial No. 267,050. PUBLISHED AUGUST 21, 1928. Class 2.

248,793. INFANTS' BATH ROBES AND BUNTINGS. ROSIE ROSEN, doing business as B. Rosen, New York, N. Y.
Filed May 25, 1928. Serial No. 267,012. PUBLISHED AUGUST 14, 1928. Class 39.

248,794. ELECTRIC MOTOR CONTROLLERS. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.
Filed May 24, 1928. Serial No. 266,917. PUBLISHED AUGUST 14, 1928. Class 21.

248,795. TRAY FOR ICE-CREAM CONES. DAGGER CORPORATION, Chicago, Ill.
Filed June 9, 1928. Serial No. 267,758. PUBLISHED AUGUST 21, 1928. Class 2.

248,796. MEN'S COLLARS. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed June 8, 1928. Serial No. 267,698. PUBLISHED AUGUST 7, 1928. Class 39.

248,797. MEN'S COLLARS. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed June 8, 1928. Serial No. 267,694. PUBLISHED JULY 31, 1928. Class 39.

248,798. CERTAIN TEXTILE ARTICLES. RUBY LANE, Inc., New York, N. Y.
Filed June 7, 1928. Serial No. 267,669. PUBLISHED AUGUST 7, 1928. Class 42.

248,799. OCARINAS. THE FRED. GRETSCH MFG. CO., New York, N. Y.
Filed June 7, 1928. Serial No. 267,651. PUBLISHED AUGUST 14, 1928. Class 36.

248,800. FINGER RINGS, BROOCHES, SCARF PINS, SAUTOIRS, BRACELETS, AND JEWELRY MOUNTINGS FOR FINGER RINGS AND BROOCHES. ABBEY-WAAS COMPANY, New York, N. Y.
Filed June 7, 1928. Serial No. 267,624. PUBLISHED AUGUST 14, 1928. Class 28.

248,801. FUSES, FUSE WIRE, FUSE LINKS, FUSE BLOCKS, AND GROUND CLAMPS. THE CHASE-SHAWMUT COMPANY, Newburyport, Mass.
Filed June 6, 1928. Serial No. 267,539. PUBLISHED AUGUST 14, 1928. Class 21.

248,802. BOYS' OUTER SUITS AND OVERCOATS. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed June 6, 1928. Serial No. 267,538. PUBLISHED AUGUST 7, 1928. Class 39.

248,803. WOMEN'S CLOTHING—NAMELY, NURSES' UNIFORMS. ROCHESTER GARMENT SHOP, St. Paul, Minn.
Filed June 5, 1928. Serial No. 267,511. PUBLISHED JULY 31, 1928. Class 39.

248,804. DRESS AND NEGLIGEE SHIRTS FOR MEN AND BOYS. S. LIEBOVITZ & SONS, Inc., New York, N. Y.
Filed June 5, 1928. Serial No. 267,497. PUBLISHED JULY 31, 1928. Class 39.

248,805. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed June 5, 1928. Serial No. 267,481. PUBLISHED JULY 31, 1928. Class 39.

248,806. CIGARETTE AND CIGAR HOLDERS AND PIPES. HANS A. WIDENMANN, New York, N. Y.
Filed June 27, 1928. Serial No. 268,763. PUBLISHED AUGUST 7, 1928. Class 8.

248,807. SAFETY MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed June 27, 1928. Serial No. 268,757. PUBLISHED AUGUST 7, 1928. Class 9.

248,808. SILK PIECE GOODS. WILLARD, COLBERT & GILES, New York, N. Y.
Filed June 26, 1928. Serial No. 268,724. PUBLISHED AUGUST 7, 1928. Class 42.

248,809. CERTAIN WOVEN, KNITTED, AND FELTED FABRICS. ALLEN L. WEST, New York, N. Y.
Filed June 26, 1928. Serial No. 268,723. PUBLISHED AUGUST 14, 1928. Class 42.

248,810. BOYS' SUITS. UNION COMPANY, Columbus, Ohio.
Filed June 26, 1928. Serial No. 268,712. PUBLISHED AUGUST 14, 1928. Class 39.

248,811. CERTAIN NAMED PIECE GOODS. HENRY GLASS & CO., New York, N. Y.
Filed June 26, 1928. Serial No. 268,692. PUBLISHED AUGUST 7, 1928. Class 42.

248,812. PIECE GOODS MADE OF SILK, COTTON, AND WOOL. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed June 26, 1928. Serial No. 268,691. PUBLISHED AUGUST 7, 1928. Class 42.

248,813. MEN'S AND WOMEN'S DRESSING ROBES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed June 26, 1928. Serial No. 268,676. PUBLISHED AUGUST 14, 1928. Class 39.

248,814. ROPE, CORD, AND TWINE. HENRY & ALLEN, Auburn, N. Y.
Filed June 25, 1928. Serial No. 268,607. PUBLISHED AUGUST 14, 1928. Class 7.

248,815. CORRUGATED-FIBRE BOXES. GENERAL FIBRE BOX COMPANY, West Springfield, Mass.
Filed June 25, 1928. Serial No. 268,599. PUBLISHED AUGUST 21, 1928. Class 2.

248,816. NECKTIES, SCARFS, AND CRAVATS. STANDARD NECKWEAR COMPANY, Boston, Mass.
Filed June 23, 1928. Serial No. 268,564. PUBLISHED AUGUST 14, 1928. Class 39.

248,817. HANDKERCHIEFS. LOUIS A. SILK, New York, N. Y.
Filed June 21, 1928. Serial No. 268,467. PUBLISHED JULY 31, 1928. Class 42.

248,818. LOCKS. PRATT-RYMER CO., San Leandro, Calif.
Filed June 21, 1928. Serial No. 268,463. PUBLISHED AUGUST 21, 1928. Class 25.

248,819. WOOLEN AND WORSTED GOODS AND COMBINATIONS THEREOF IN THE PIECE. ALLEN R. MITCHELL & SON, Philadelphia, Pa.
Filed June 21, 1928. Serial No. 268,457. PUBLISHED AUGUST 14, 1928. Class 42.

248,820. HOSIERY. JULIUS KAYSER & CO., New York, N. Y.
Filed June 21, 1928. Serial No. 268,447. PUBLISHED AUGUST 14, 1928. Class 39.

248,821. CHILDREN'S DRESSES. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y.
Filed June 21, 1928. Serial No. 268,445. PUBLISHED AUGUST 14, 1928. Class 39.

248,822. COTTON PIECE GOODS. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y.
Filed June 21, 1928. Serial No. 268,444. PUBLISHED JULY 31, 1928. Class 42.

248,823. TOBACCO CONTAINERS AND COMBINATION CONTAINERS FOR TOBACCO, CIGARS, CIGARETTES, AND THE LIKE. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn.
Filed June 28, 1928. Serial No. 268,774. PUBLISHED AUGUST 7, 1928. Class 8.

248,824. WOMEN'S AND CHILDREN'S DRESSES IN ONE AND TWO PIECE GARMENTS. ABBATE & FRANKS, Inc., New York, N. Y.
Filed June 28, 1928. Serial No. 268,764. PUBLISHED AUGUST 14, 1928. Class 39.

248,825. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS AND BOYS' BLOUSES. ELDER MFG. CO., St. Louis, Mo.
Filed June 21, 1928. Serial No. 268,430. PUBLISHED AUGUST 14, 1928. Class 39.

248,826. KNITTED HOSIERY FOR MEN, WOMEN, AND CHILDREN. DAYTON HOSIERY MILLS, Dayton, Tenn.
Filed June 15, 1928. Serial No. 268,085. PUBLISHED AUGUST 14, 1928. Class 39.

248,827. WATCHES AND WATCH MOVEMENTS. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed June 21, 1928. Serial No. 268,419. PUBLISHED AUGUST 21, 1928. Class 27.

248,828. WOOLEN BLANKETS. PENDLETON WOOLEN MILLS, Portland, Oreg.
Filed June 20, 1928. Serial No. 268,386. PUBLISHED AUGUST 14, 1928. Class 42.

248,829. AUTOMOBILE, MOTOR-TRUCK, AND MOTOR-BUS BODIES, CABS, SEATS, PANELS, PLATFORMS, END GATES, AND BUSINESS ATTACHMENTS. HERCULES PRODUCTS, INC., Evansville, Ind.
Filed June 20, 1928. Serial No. 268,373. PUBLISHED AUGUST 21, 1928. Class 19.

248,830. METAL WALL RACK FOR KITCHEN UTENSILS. ROBERT E. MILLER, New York, N. Y.
Filed June 20, 1928. Serial No. 268,379. PUBLISHED AUGUST 21, 1928. Class 13.

248,831. ONE-PIECE OUTER GARMENTS—VIZ, OVERALLS AND COVERALLS FOR MEN, WOMEN, AND CHILDREN, RECREATION SUITS FOR MEN, WOMEN, AND CHILDREN, AND PLAY SUITS FOR CHILDREN. MARTIN BROTHERS COMPANY, Minneapolis, Minn.
Filed May 14, 1928. Serial No. 266,385. PUBLISHED AUGUST 7, 1928. Class 39.

248,832. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed June 20, 1928. Serial No. 268,350. PUBLISHED JULY 31, 1928. Class 42.

248,833. CELLULOSE-ACETATE YARNS, THREADS, AND FILAMENTS. DU PONT RAYON COMPANY, Buffalo, N. Y.
Filed June 19, 1928. Serial No. 268,277. PUBLISHED AUGUST 7, 1928. Class 43.

248,834. CELLULOSE-ACETATE YARNS, THREADS, AND FILAMENTS. DU PONT RAYON COMPANY, Buffalo, N. Y.
Filed June 19, 1928. Serial No. 268,276. PUBLISHED AUGUST 7, 1928. Class 43.

248,835. MEN'S AND YOUNG MEN'S OVERCOATS AND TOPCOATS AND YOUNG MEN'S COATS, VESTS, AND TROUSERS. HORNSTEIN-NEWMAN COMPANY, Galion, Ohio.
Filed June 14, 1928. Serial No. 268,039. PUBLISHED AUGUST 7, 1928. Class 39.

248,836. HOSIERY. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed June 14, 1928. Serial No. 268,026. PUBLISHED AUGUST 7, 1928. Class 39.

248,837. HOSIERY. MASSACHUSETTS KNITTING MILLS, Boston, Mass.
Filed June 13, 1928. Serial No. 267,983. PUBLISHED AUGUST 7, 1928. Class 39.

248,838. SILK HOSIERY. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed June 13, 1928. Serial No. 267,943. PUBLISHED AUGUST 7, 1928. Class 39.

248,839. PEARLS, NECKLACES, BRACELETS, EARRINGS, FINGER RINGS, BROOCHES, BAR PINS, AND ORNAMENTAL HATPINS, AND PINS FOR DRESS ORNAMENTS, ORNAMENTAL PINS AND BUCKLES FOR DECORATING HATS, ORNAMENTAL SHOE BUCKLES, AND HAIR ORNAMENTS, MADE WHOLLY OR IN PART OF OR PLATED WITH PRECIOUS METAL. COHN & ROSENBERGER, Inc., New York, N. Y.
Filed June 13, 1928. Serial No. 267,936. PUBLISHED AUGUST 14, 1928. Class 28.

248,840. FINGER RINGS. THE H. A. WILSON COMPANY, Newark, N. J.
Filed June 12, 1928. Serial No. 267,915. PUBLISHED AUGUST 14, 1928. Class 28.

248,841. BRACELETS, BROOCHES, PENDANTS, EARRINGS, ORNAMENTAL PINS, PIN SETS, FINGER RINGS; NECK, WATCH, AND KEY CHAINS. MILTON JEWELRY COMPANY, Inc., New York, N. Y.
Filed June 11, 1928. Serial No. 267,850. PUBLISHED AUGUST 14, 1928. Class 28.

248,842. WELDING AND CUTTING GAS TORCHES. PUROX COMPANY, Denver, Colo.
Filed June 9, 1928. Serial No. 267,798. PUBLISHED AUGUST 21, 1928. Class 34.

248,843. WOOLEN BLANKETS. PENDLETON WOOLEN MILLS, Portland, Oreg.
Filed June 9, 1928. Serial No. 267,794. PUBLISHED AUGUST 7, 1928. Class 42.

248,844. MOUNTINGS FOR JEWELRY FOR PERSONAL WEAR—NAMELY, FINGER RINGS, BRACELETS, BROOCHES, EARRINGS, AND NECKLACES. MAURICE TISHMAN, New York, N. Y.
Filed January 27, 1928. Serial No. 260,780. PUBLISHED AUGUST 14, 1928. Class 28.

248,845. BRACELETS, BROOCHES, SCARFPINS, PENDANTS, AND BAR PINS. THE BRASSLER COMPANY, Newark, N. J.
Filed January 23, 1928. Serial No. 260,487. PUBLISHED AUGUST 14, 1928. Class 28.

248,846. RADIO RECEIVING SETS AND PARTS THEREOF. UTAH ELECTRIC RADIO COMPANY, Salt Lake City, Utah.
Filed January 17, 1928. Serial No. 260,249. PUBLISHED AUGUST 14, 1928. Class 21.

248,847. INDIVIDUAL PAPER DRINKING CUPS. NELLIE M. PAUL, Easton, Pa.
Filed January 14, 1928. Serial No. 260,132. PUBLISHED AUGUST 21, 1928. Class 2.

248,848. WEARING APPAREL—NAMELY, DRESS AND NEGLIGEE SHIRTS FOR MEN AND BOYS, PAJAMAS, BEACH ROBES, NEGLIGEES; TEXTILE AND KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN; COOLIE COATS, AND KIMONOS. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y.
Filed January 10, 1928. Serial No. 259,913. PUBLISHED AUGUST 7, 1928. Class 39.

248,849. WEARING APPAREL—NAMELY, DRESS AND NEGLIGEE SHIRTS FOR MEN AND BOYS, PAJAMAS, BEACH ROBES, NEGLIGEES; TEXTILE AND KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN; COOLIE COATS, AND KIMONOS. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y.
Filed January 10, 1928. Serial No. 259,912. PUBLISHED AUGUST 7, 1928. Class 39.

248,850. WEARING APPAREL—NAMELY, DRESS AND NEGLIGEE SHIRTS FOR MEN AND BOYS, PAJAMAS, BEACH ROBES, NEGLIGEES; TEXTILE AND KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN; COOLIE COATS, AND KIMONOS. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y.
Filed January 10, 1928. Serial No. 259,909. PUBLISHED AUGUST 7, 1928. Class 39.

248,851. CORN MEAL AND WHEAT FLOUR. JOHN W. ESHELMAN & SONS, Lancaster, Pa.
Filed December 31, 1927. Serial No. 259,541. PUBLISHED AUGUST 14, 1928. Class 46.

248,852. AUDIOFREQUENCY AND RADIOFREQUENCY AMPLIFICATION AND DETECTOR UNITS FOR RADIO RECEIVING APPARATUS. THE PILOT ELECTRIC MANUFACTURING CO. INC., Brooklyn, N. Y.
Filed December 19, 1927. Serial No. 259,132. PUBLISHED AUGUST 14, 1928. Class 21.

248,853. LINOLEUM AND PRODUCTS RESEMBLING LINOLEUM. DEUTSCHE LINOLEUM-WERKE A.-G., Bietigheim, Germany.
Filed July 6, 1928. Serial No. 269,186. PUBLISHED AUGUST 14, 1928. Class 20.

248,854. FERTILIZERS. RASIN-MONUMENTAL COMPANY OF ANNE ARUNDEL COUNTY, Baltimore, Md.
Filed July 5, 1928. Serial No. 269,150. PUBLISHED AUGUST 21, 1928. Class 10.

248,855. FERTILIZERS. RASIN-MONUMENTAL COMPANY OF ANNE ARUNDEL COUNTY, Baltimore, Md.
Filed July 5, 1928. Serial No. 269,149. PUBLISHED AUGUST 21, 1928. Class 10.

248,856. TEXTILE GOODS—NAMELY, BAGS AND BAG BODIES, BASKETS, AND TRAYS OF SPLINT, OR BARK, OR WILLOW, OR CORN SHUCK, OR SIMILAR MATERIAL OR OF A COMBINATION THEREOF; AND CERTAIN WOODEN ARTICLES—NAMELY, FLOWER VASES, DRINKING-GLASS COASTERS, AND BOXES FOR HOLDING CIGARETTES OR FOR SIMILAR USE. PI BETA PHI SETTLEMENT SCHOOL OF THE PI BETA PHI FRATERNITY, Gatlinburg, Tenn.
Filed July 5, 1928. Serial No. 269,143. PUBLISHED AUGUST 21, 1928. Class 2.

248,857. WOOLEN AND WORSTED GOODS AND COMBINATIONS THEREOF IN THE PIECE. ALLEN R. MITCHELL & SON, Philadelphia, Pa.
Filed July 5, 1928. Serial No. 269,132. PUBLISHED AUGUST 14, 1928. Class 42.

248,858. CERTAIN NAMED PIECE GOODS. LESHER, WHITMAN & CO., INC., New York, N. Y.
Filed July 5, 1928. Serial No. 269,126. PUBLISHED AUGUST 14, 1928. Class 42.

248,859. SILK AND RAYON PIECE GOODS AND MIXTURES THEREOF. DUPLAN SILK CORPORATION, New York, N. Y.
Filed July 5, 1928. Serial No. 269,103. PUBLISHED AUGUST 14, 1928. Class 42.

248,860. PRINTED LINOLEUM, PLAIN LINOLEUM, AND CORK CARPET. CONGOLEUM-NAIRN, INC., Kearny, N. J.
Filed July 5, 1928. Serial No. 269,091. PUBLISHED AUGUST 14, 1928. Class 20.

248,861. WOOLEN BLANKETS. CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C.
Filed July 3, 1928. Serial No. 269,047. PUBLISHED AUGUST 14, 1928. Class 42.

248,862. COTTON, RAYON, WOOL, WORSTED, AND TINSEL YARNS AND THREADS. Z. B. YARN MILLS, Union City, N. J.
Filed July 3, 1928. Serial No. 269,045. PUBLISHED AUGUST 14, 1928. Class 43.

248,863. COTTON, RAYON, WOOL, WORSTED, AND TINSEL YARNS AND THREADS. Z. B. YARN MILLS, Union City, N. J.
Filed July 3, 1928. Serial No. 269,044. PUBLISHED AUGUST 14, 1928. Class 43.

248,864. FERTILIZERS. CO-OPERATIVE GRANGE LEAGUE FEDERATION EXCHANGE, INC., Syracuse, N. Y.
Filed July 2, 1928. Serial No. 268,970. PUBLISHED AUGUST 21, 1928. Class 10.

248,865. MEN'S OVERALLS AND JACKETS MADE OF COTTON FABRICS. KLINKERFUES BROS. CO., St. Paul, Minn.
Filed June 29, 1928. Serial No. 268,870. PUBLISHED AUGUST 14, 1928. Class 39.

248,866. SILKS IN THE PIECE. CAPITOL SILK CORPORATION, New York, N. Y.
Filed June 29, 1928. Serial No. 268,846. PUBLISHED AUGUST 7, 1928. Class 42.

248,867. MOTOR TRUCKS. INDIANA TRUCK CORPORATION, Marion, Ind.
Filed June 28, 1928. Serial No. 268,788. PUBLISHED AUGUST 21, 1928. Class 19.

248,868. KNITTED, NETTED, AND TEXTILE FABRIC UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. CONTINENTAL UNDERGARMENT COMPANY, New York and Brooklyn, N. Y.
Filed June 28, 1928. Serial No. 268,779. PUBLISHED AUGUST 14, 1928. Class 39.

248,869. TOILET PREPARATIONS—NAMELY, COLD CREAMS AND FACE CREAMS. THE SYDNEY ROSS CO., Newark, N. J.
Filed July 20, 1928. Serial No. 269,923. PUBLISHED AUGUST 28, 1928. Class 6.

248,870. STRAIGHT RYE WHISKEY. THE SHERWOOD DISTILLING & DISTRIBUTING COMPANY, Baltimore, Md.
Filed March 23, 1928. Serial No. 263,673. PUBLISHED JULY 3, 1928. Class 49.

248,871. TOAST. HARRY GEORGE CUBBISON, doing business as Cubbison Cracker Co., Los Angeles, Calif.
Filed February 23, 1928. Serial No. 262,065. PUBLISHED JUNE 5, 1928. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

248,872. (CLASS 15. OILS AND GREASES.) JOACHIM MILLKEY, doing business as The Certified Lubricants Co., Cincinnati, Ohio, assignor to The Certified Lubricants Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 3, 1927. Serial No. 257,019.

"FILMOIL"

For Oils and Greases to be Used for Lubricating Purposes.
Claims use since on or about Nov. 1, 1926.

248,873. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ST. CHARLES NET & HAMMOCK COMPANY, St. Charles, Ill. Filed Sept. 13, 1928. Serial No. 272,354.

ST. CHARLES

For Minnow Seines and Basket-Ball Goals.
Claims use since 1906.

248,874. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN LIME STONE PRODUCTS COMPANY, Omaha, Nebr. Filed Sept. 7, 1928. Serial No. 272,070.

SHELLMAKER

For Limestone Used for Chicken Feed.
Claims use since Feb. 15, 1927.

248,875. (CLASS 32. FURNITURE AND UPHOLSTERY.) ST. CHARLES NET & HAMMOCK COMPANY, St. Charles, Ill. Filed Aug. 22, 1928. Serial No. 271,409.

St. Charles

For Certain Types of Porch and Lawn Swings Known as Couch Hammocks and Couch-Hammock Gliders.
Claims use since Mar. 1, 1909.

248,876. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BUFFALO METER COMPANY, Buffalo, N. Y. Filed Aug. 17, 1928. Serial No. 271,165.

NIAGARA

For Air-Release Valves for Installation on Liquid-Transmission Lines.
Claims use since July 19, 1927.

248,877. (CLASS 39. CLOTHING.) BELDING HEMINWAY COMPANY, New York, N. Y. Filed Aug. 2, 1928. Serial No. 270,457.

BELDING HEMINWAY COMPANY

For Hosiery.
Claims use since July 22, 1927.

248,878. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEWIS REINE, doing business as Reine Company, San Francisco, Calif. Filed July 16, 1928. Serial No. 269,691.

Reine's

For Malt Syrup.
Claims use since Dec. 1, 1919.

248,879. (CLASS 39. CLOTHING.) JANESVILLE CLOTHING CO., Janesville, Wis. Filed July 9, 1928. Serial No. 269,294.

Good'N'Big

For Men's and Youths' Work Shirts, Semidress Shirts, and Woolen Shirts.
Claims use since May 1, 1927.

248,880. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BROWN BROS. PIANO CO., Boston, Mass. Filed June 6, 1928. Serial No. 267,528.

BROWN BROS.

For Pianos.
Claims use since May 27, 1925.

248,881. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRANT STORAGE BATTERY CO., doing business as Grant Automotive Specialty Co., Minneapolis, Minn. Filed May 31, 1928. Serial No. 267,253.

Wash-Up

For Soap.
Claims use since on or about Sept. 1, 1921.

248,882. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUTHER J. GRAVES, doing business as Graves Laboratories, Sturgis, Mich. Filed May 12, 1928. Serial No. 266,317.

℞
NO CHAP
Alcohol not over 10%
The Invisible Film Protects and makes Rough Skins Smooth and White
Graves Laboratories
Sturgis, Michigan

For a Lotion for External Application to Rough Skins.
Claims use since Sept. 1, 1927.

248,883. (CLASS 10. FERTILIZERS.) GEORGIA FERTILIZER COMPANY, Valdosta, Ga. Filed Mar. 26, 1928. Serial No. 263,760.

TOBACCO GROWER'S CHOICE
8-3-5



For Commercial Fertilizer.
Claims use since Aug. 13, 1925.

248,884. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) DOLAN & BULLOCK, Providence, R. I. Filed Mar. 10, 1928. Serial No. 262,903.

CORRECT

For Collar Pins, Collar Holders, Collar Buttons, Lingerie Clasps, Belt Chains, Belt Buckles, Dress Pins, Sweater Pins, Cuff Buttons, Shirt Studs, Tie Clasps, and Scarfpins, All Made Wholly or in Part of or Plated with Precious Metal.
Claims use since Apr. 1, 1920.

248,885. (CLASS 39. CLOTHING.) W. M. W. CLOTHING CORP., New York, N. Y. Filed Dec. 3, 1927. Serial No. 258,440.

Truesdale

For Men's, Young Men's, and Boys' Suits, Coats, Overcoats, and Trousers.
Claims use since Aug. 9, 1927.

248,886. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FISK RUBBER COMPANY, Chicopee Falls, Mass., and Cudahy, Wis. Filed Nov. 25, 1927. Serial No. 258,020.

RUGBY

For Pneumatic Tires and Tubes Made Wholly or Partly of Rubber.
Claims use since Aug. 26, 1927.

248,887. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN STOVE COMPANY, St. Louis, Mo. Filed Nov. 1, 1927. Serial No. 256,853.

OVERALL

For Gas-Range Covers Which Fit Over the Cooking-Top Surface of the Range.
Claims use since June 23, 1927.

248,888. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUISVILLE BEDDING COMPANY, INC., Louisville, Ky. Filed Oct. 18, 1927. Serial No. 256,256.

Olde Kentucky

For Bedquilts.
Claims use since Feb. 15, 1927.

248,889. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GROSSER KNITTING MACHINE CO., New York, N. Y. Filed Sept. 15, 1927. Serial No. 254,750.

DUO-TYPE

For Knitting Machines.
Claims use since Sept. 1, 1927.

248,890. (CLASS 39. CLOTHING.) AMSTERDAM SHIRT COMPANY, Amsterdam, N. Y. Filed Aug. 26, 1927. Serial No. 253,973.

Amsterdam

For Dress, Negligee, and Work Shirts.
Claims use since July 7, 1927.

248,891. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WULFING COMPANY, INC., New York, N. Y. Filed July 19, 1927. Serial No. 252,300.

Wulfing

For Pharmaceutical Calcium Product; a Preparation for the Treatment of Rheumatism, Neuralgia, Fever, Colds, and Sick Headaches; a Medicinal Preparation Containing Iodin or Its Salts and Albumen, a Preparation for the Treatment of Cystitis and Gonorrhœa; a Preparation for the Treatment of Rheumatism, Arthritis, Influenza, Etc.; a Preparation for the Treatment of Chlorosis, Anemia, and Similar Ailments; Albumen, Albuminous Food Compounds, and Albuminous Modifications of Cow's Milk; a Preparation for the Treatment of Dyspepsia, Diarrhœa, and Similar Ailments; a Proteid Cell Builder and Blood Purifier, a Preparation Containing Protein Substances in the Form of Ampoules for Injection, and a Lactose Preparation.
Claims use since Apr. 4, 1927.

248,892. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLIAM R. MESTLER, doing business as The National Rule Co., Rochester, N. Y. Filed July 15, 1927. Serial No. 252,104.

NON SLIP

For Flexible Steel and Rubber Rulers.
Claims use since Sept. 1, 1918.

248,893. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN SALM, doing business as Salm Manufacturing Company, Torrance, Calif. Filed Dec. 21, 1926. Serial No. 241,792.

Salm

For Pocketknives.
Claims use since Nov. 30, 1926.

248,894. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANCE BROTHERS & WHITE, INC., Philadelphia, Pa. Filed Mar. 15, 1926. Serial No. 228,649.

Thebest

For Glycerine.
Claims use since Apr. 1, 1922.

TRADE-MARK REGISTRATIONS RENEWED

70,324. GLOVE AND DRESS FASTENERS AND BUTTONS. Registered August 25, 1908. FOWNES BROTHERS AND COMPANY, London, England. Renewed August 25, 1928, to Fownes Brothers & Co. Incorporated, New York, N. Y., a Corporation of New York, assignee.

70,463. CERTAIN KNIT GOODS. Registered September 1, 1908. JOHN F. BROOKS' CO., Needham and Needham Heights, Mass. Renewed September 1, 1928, by Albert G. Relyea, New York, N. Y., assignee.

70,508. CERTAIN MEDICINAL PREPARATIONS. Registered September 8, 1908. PAPE, THOMPSON & PAPE, Cincinnati, Ohio. Renewed September 8, 1928, to Sterling Products (Incorporated), Wheeling, W. Va., a Corporation of West Virginia, assignee by mesne assignments.

70,555. SOAP FOR LAUNDRY USE. Registered September 15, 1908. THE PROCTER & GAMBLE COMPANY, Ivorydale, Ohio; Kansas City, Mo.; Staten Island, N. Y.; and Cincinnati, Ohio. Renewed September 15, 1928, to The Procter & Gamble Company, Cincinnati, Ohio, a Corporation of Ohio.

70,556. SOAP FOR LAUNDRY USE. Registered September 15, 1908. THE PROCTER & GAMBLE COMPANY, Ivorydale, Ohio; Kansas City, Mo.; Staten Island, N. Y.; and Cincinnati, Ohio. Renewed September 15, 1928, to The Procter & Gamble Company, Cincinnati, Ohio, a Corporation of Ohio.

70,662. HAND SEWING NEEDLES, TOILET PINS, AND SAFETY PINS. Registered September 22, 1908. O. MUSTAD & SÖN, Christiania, Norway. Renewed September 22, 1928, to O. Mustad & Sön, Oslo, Norway.

70,704. FISHHOOKS. Registered September 29, 1908. O. MUSTAD & SÖN, Christiania, Norway. Renewed September 29, 1928, to O. Mustad & Sön, Oslo, Norway.

70,724. CHANDELIERS FOR GAS AND ELECTRIC LIGHTS. Registered September 29, 1908. CHAS. POLACHECK & BRO. CO., Milwaukee, Wis., a Corporation of Wisconsin. Renewed September 29, 1928.

70,889. CARPETS AND RUGS. Registered October 13, 1908. LISTER & CO. LIMITED, Bradford, England, an Incorporated Company of Great Britain. Renewed October 13, 1928.

70,913. ELECTRIC BATTERIES. Registered October 13, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed October 13, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

70,948. PLANT-FERTILIZING MATERIALS. Registered October 20, 1908. WILSON & TOOMER FERTILIZER CO., Jacksonville, Fla., a Corporation of Florida. Renewed October 20, 1928.

71,168. COFFEE. Registered November 3, 1908. ROANOKE COFFEE & SPICE CO. INC., Roanoke, Va., a Corporation of Virginia. Renewed November 3, 1928.

71,303. CIGARETTES, CIGARS, AND TOBACCO. Registered November 17, 1908. MASPERO FRÈRES, LIMITED, London, England, and Cairo, Egypt, a Corporation of Great Britain. Renewed November 17, 1928.

71,330. CERTAIN SURGICAL GOODS AND MEDICINE CHESTS. Registered November 17, 1908. DAIMLER-MOTOREN-GESELLSCHAFT, Untertürkheim, near Stuttgart, Germany. Renewed November 17, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

71,337. CERTAIN RUBBER GOODS. Registered November 17, 1908. HANNOVERSCHE GUMMI-KAMM-COMPAGNIE ACTIEN-GESELLSCHAFT, Hanover-Limmer, Germany. Renewed November 17, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

71,349. CERTAIN CHEMICALS. Registered November 17, 1908. BADISCHE ANILIN & SODA FABRIK, Ludwighafen-on-the-Rhine, Germany. Renewed November 17, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

71,408. SOAP FOR LAUNDRY USE. Registered November 24, 1908. THE PROCTER & GAMBLE COMPANY, Ivorydale, Ohio; Kansas City, Mo.; Staten Island, N. Y.; and Cincinnati, Ohio. Renewed November 24, 1928, to The Procter & Gamble Company, Cincinnati, Ohio, a Corporation of Ohio.

71,493. CIGARETTES, CIGARS, AND TOBACCO. Registered November 24, 1908. MASPERO FRÈRES, LIMITED, London, England, and Cairo, Egypt, a Corporation of Great Britain. Renewed November 24, 1928.

71,638. MEDICINES FOR INTERNAL USE. Registered December 8, 1908. GEHE & Co., AKTIENGESELLSCHAFT, Dresden, Germany. Renewed December 8, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

71,816. A MILK FOOD FOR INFANTS AND INVALIDS. Registered December 15, 1908. JOSEPH NATHAN & Co., LIMITED, London, England, a Corporation of Great Britain. Renewed December 15, 1928.

71,838. LEATHER BOOTS AND SHOES. Registered December 15, 1908, to ROBERTS, JOHNSON & RAND SHOE COMPANY. Renewed December 15, 1928, to International Shoe Co., St. Louis, Mo., a Corporation of Delaware, assignee by mesne assignments.

71,871. PLANT-FERTILIZING MATERIALS. Registered December 15, 1908. WILSON & TOOMER FERTILIZER Co., Jacksonville, Fla., a Corporation of Florida. Renewed December 15, 1928.

71,910. A REMEDY FOR HOG PLAGUE. Registered December 22, 1908. E. MERCK, Darmstadt, Germany. Renewed December 22, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

71,928. A PREPARATION FOR STRIPPING OR DISCHARGING COLOR. Registered December 22, 1908. RAINBOW DYE Co., New York, N. Y., a Corporation of New York. Renewed December 22, 1928.

71,981. A LIQUID PREPARATION FOR USE AS A SCALP TONIC. Registered December 22, 1908. THE KNOWLTON DANDERINE CO., Chicago, Ill. Renewed December 22, 1928, to Sterling Products (Incorporated), Wheeling, W. Va., a Corporation of West Virginia, assignee.

72,023. HERMETICALLY-SEALED FRUITS AND VEGETABLES. Registered December 29, 1908. GRIFFIN & SKELLEY Co. Renewed December 29, 1928, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

72,330. ORANGES AND LEMONS. Registered January 19, 1909. RANDOLPH FRUIT COMPANY, Los Angeles, Calif. Renewed January 19, 1929, to Randolph Marketing Company, Riverside, Calif., a Corporation of California, assignee.

72,394. COTTON DUCK. Registered January 19, 1909. WELLINGTON, SEARS & COMPANY, Boston, Mass. Renewed January 19, 1929.

72,505. SALTED FISH. Registered January 26, 1909. SYLVANUS SMITH & Co. INC. Renewed January 26, 1929, to Frank C. Pearce Company, Gloucester, Mass., a Corporation of Massachusetts, assignee.

72,506. SALTED FISH. Registered January 26, 1909. SYLVANUS SMITH & Co. INC. Renewed January 26, 1929, to Frank C. Pearce Company, Gloucester, Mass., a Corporation of Massachusetts, assignee.

72,532. PRINTING AND WRITING PAPERS. Registered February 2, 1909. THE BAUGHMAN STATIONERY Co., Richmond, Va., a Corporation of Virginia. Renewed February 2, 1929.

72,582. SPICES. Registered February 2, 1909. D. & L. SLADE Co., Boston, Mass., a Corporation of Massachusetts. Renewed February 2, 1929.

72,658. SMOKELESS POWDER. Registered February 9, 1909. E. I. DU PONT DE NEMOURS POWDER COMPANY, as assignee of Laflin & Rand Powder Company, New York, N. Y. Renewed February 9, 1929, to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware, assignee by mesne assignments.

72,669. IMPORTED CAMEMBERT CHEESE. Registered February 9, 1909. PHENIX CHEESE Co., New York, N. Y. Renewed February 9, 1929, to Kraft-Phenix Cheese Company, Chicago, Ill., a Corporation of Illinois, assigne by mesne assignments.

72,729. LEATHER BOOTS AND SHOES. Registered February 16, 1909. SELZ, SCHWAB & COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed February 16, 1929.

72,731. LEATHER GLOVES. Registered February 16, 1909. STRAWBRIDGE & CLOTHIER. Renewed February 16, 1929, to Strawbridge & Clothier, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

72,746. A STEEL POLISHER OF ABRASIVE RUBBER. Registered February 16, 1909. EBERHARD FABER, New York, N. Y. Renewed February 16, 1929, to Eberhard Faber Pencil Company, Brooklyn, N. Y., a Corporation of New York, assignee.

72,755. SHOTGUNS AND RIFLES. Registered February 16, 1909. THE MARLIN FIREARMS Co. Renewed February 16, 1929, to The Marlin Fire Arms Company, New Haven, Conn., a Corporation of Connecticut, assignee.

72,803. WHEAT FLOUR. Registered February 23, 1909. PHILIP H. POSTEL MILLING COMPANY, Mascoutah, Ill., a Corporation of Illinois. Renewed February 23, 1929.

72,804. WHEAT FLOUR. Registered February 23, 1909. PHILIP H. POSTEL MILLING COMPANY, Mascoutah, Ill., a Corporation of Illinois. Renewed February 23, 1929.

72,805. WHEAT FLOUR. Registered February 23, 1909. PHILIP H. POSTEL MILLING COMPANY, Mascoutah, Ill., a Corporation of Illinois. Renewed February 23, 1929.

72,821. TULLES, MUSLINS, CRAPES, AND SILKS. Registered February 23, 1909. PERRET, GROS & MILLION, Lyon, France. Renewed February 23, 1929, to The "Dynamo" Tulle Importing Co., Inc., New York, N. Y., assignee by mesne assignments.

72,888. SNAP FASTENERS. Registered March 2, 1909. UNITED STATES FASTENER Co., Portland, Me., and Boston, Mass. Renewed March 2, 1929, to United States Fastener Company, Boston, Mass., a Corporation of Massachusetts, assignee.

72,950. POST CARDS. Registered March 2, 1909. THE UNION NEWS COMPANY, New York, N. Y., a Corporation of New York. Renewed March 2, 1929.

73,124. CIGARETTE PAPERS. Registered March 16, 1909. MAISON PIERRE BARDOU-JOB, Perpignan, France. Renewed March 16, 1929, to Societe Job (Anciens Etablissements Bardou-Job et Paulilhe), Perpignan and Toulouse, France, a Corporation of France, assignee.

LABELS

REGISTERED OCTOBER 30, 1928.

34,854.—*Title:* BUTLER'S RADIANT FILLED MORSELS. For Candy. BUTLER CANDIES, INC., Elgin, Ill. Published September 12, 1928.

34,855.—*Title:* BLENDS WITH FRIENDS, CLIQUOT CLUB, SEC. GINGER ALE SUPREME. For Ginger Ale. CLIQUOT CLUB COMPANY, Millis, Mass. Published August 1, 1928.

34,856.—*Title:* SANTISEPTIC. For Antiseptic Lotions. ESSENCOTT LABORATORIES, Portland, Oreg. Published August 23, 1928.

34,857.—*Title:* STANUP. For Shoulder Brace. LEWIS A. FRITSCH, Cincinnati, Ohio. Published August 25, 1928.

34,858.—*Title:* GOOD TASTE. For Fresh Apples. HASKELL & BURNS, Wenatchee, Wash. Published September 1, 1928.

34,859.—*Title:* EXPORT QUALITY. For Fresh Apples. HASKELL & BURNS, Wenatchee, Wash. Published September 1, 1928.

34,860.—*Title:* STERLING. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 10, 1928.

34,861. —*Title:* J. BACON & SONS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 6, 1928.

34,862.—*Title:* BERKSHIRE FOOTWEAR CORP. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 26, 1928.

34,863.—*Title:* THE BOSTON STORE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 6, 1928.

34,864.—*Title:* G. A. COLEMAN CO. INCORPORATED. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 10, 1928.

34,865.—*Title:* GOLDEN'S BOOTERY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 29, 1928.

34,866.—*Title:* DORRIS & LEVY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 13, 1928.

34,867.—*Title:* DUCHESS FOOTWEAR OF FASHION. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 6, 1928.

34,868.—*Title:* MEYER GREENTREE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 11, 1928.

34,869.—*Title:* THE NEW LEVITE'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 24, 1928.

34,870.—*Title:* REEVES SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 16, 1928.

34,871.—*Title:* SHOES TO BE PROUD OF. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 30, 1928.

34,872.—*Title:* STERLING. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 14, 1928.

34,873.—*Title:* TOSK'S SHOE SHOP. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 6, 1928.

34,874.—*Title:* THE TRAVELER SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 20, 1928.

34,875.—*Title:* WULFF SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 25, 1928.

34,876.—*Title:* McBRYDE BOOT SHOP. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published July 29, 1928.

34,877.—*Title:* DANNENBERG'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 29, 1928.

34,878.—*Title:* HAMMERSMITH'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 29, 1928.

34,879.—*Title:* MAY SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published September 4, 1928.

34,880.—*Title:* THE MIRROR. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 29, 1928.

34,881.—*Title:* THE STROUSS-HIRSHBERG CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 23, 1928.

34,882.—*Title:* TOBER'S SHOE STORE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 29, 1928.

34,883.—*Title:* LAX-KRAX. For Dr. Hollie's Lax Krax Wafers. DR. JOSEPH THEO. HOLLIE, doing business as Theo. Hollie Company, Los Angeles, Calif. Published April 2, 1928.

34,884.—*Title:* HOME MADE BREAD. For Bread. KALAMAZOO VEGETABLE PARCHMENT Co., Kalamazoo, Mich. Published September 4, 1928.

34,885.—*Title:* EAGLE. For Malt Extract. M. A. KEENAN & SONS, New London, Conn. Published January 15, 1921.

34,886.—*Title:* MALTHOP. For Malt Extract. M. A. KEENAN & SONS, New London, Conn. Published January 15, 1921.

34,887.—*Title:* TASTIT-TOSTED. For Bread. LANCASTER INC., Los Angeles, Calif. Published May 25, 1928.

34,888.—*Title:* IT-WILL POLISH. For Polish for Automobiles. LOUIS A. LEMAY, Greenville, N. H. Published February 6, 1928.

34,889.—*Title:* EASTSIDE. For Malt Syrup. LOS ANGELES BREWING Co., Los Angeles, Calif. Published July 2, 1928.

34,890.—*Title:* EASTSIDE. For Pure Malt Syrup (Light). LOS ANGELES BREWING Co., Los Angeles, Calif. Published July 16, 1928.

34,891.—*Title:* MITCHELL'S DIVOLO. For Dog Remedy. JOHN J. MITCHELL, Brooklyn, N. Y. Published July 19, 1928.

34,892.—*Title:* NOBILE CAFFÉ. For Coffee. GEORGE L. NEFF, doing business as Geo. L. Neff & Co., Pittsburgh, Pa. Published September 1, 1928.

34,893.—*Title:* CHAFFLESS FRESH ROASTED STEEL CUT COFFEE. For Coffee. GEORGE L. NEFF, doing business as Geo. L. Neff & Co., Pittsburgh, Pa. Published September 1, 1928.

34,894.—*Title:* MONKEY'S LUNCH. For Peanuts. ROYCE L. PARKER, Forest Park, Ill. Published August 15, 1928.

34,895.—*Title:* VAL-U-LAC VALUE IN LACQUERS. For Industrial Lacquers and Thinners. PIERCE & STEVENS, INC., Buffalo, N. Y.. Published June 18, 1928.

34,896.—*Title:* ROBBERT'S LEMON BLEACH LOTION. For White Imported Oil of Lemon and Tragacanth Jelly Lotion. (MRS.) JANE ROBBERT, Brooklyn, N. Y. Published September 15, 1928.

34,897.—*Title:* TOYO SHOYU. For Table Sauce. TOYO SAUCE MANUFACTURING COMPANY, INC., Los Angeles, Calif. Published June 15, 1928.

PRINTS

REGISTERED OCTOBER 30, 1928.

11,301.—*Title:* THE LEGEND OF THE KING AND THE DERVISH. For Gold Toilette Set. BLACK, STARR & FROST, New York, N. Y. Published September 15, 1928.

11,302.—*Title:* NEW ENTHUSIASM IN THE CLASS-ROOM WITH THIS PLAN. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published September 10, 1928.

11,303.—*Title:* POULTRY CALENDAR. For Poultry Remedies. THE G. E. CONKEY COMPANY, Cleveland, Ohio. Published July 9, 1928.

11,304.—*Title:* THICK, MELTINGLY TENDER STEAKS . . . FRIED OYSTERS . . . For Tomato Ketchup. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published September 15, 1928.

11,305.—*Title:* HARVA COMBS FOR MEN. For Combs. JULIUS SCHMID, INC., New York, N. Y. Published September 6, 1928.

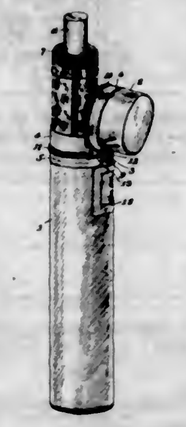
11,306.—*Title:* HARVA POCKET COMBS. For Combs. JULIUS SCHMID, INC., New York, N. Y. Published September 6, 1928.

11,307.—*Title:* SHAGGY-TEX, THE VERSATILE COAT FOR TOWN AND COUNTRY. For Ladies' Coats. SHAGGY-TEX, INC., Philadelphia, Pa. Published June 12, 1928.

REISSUES

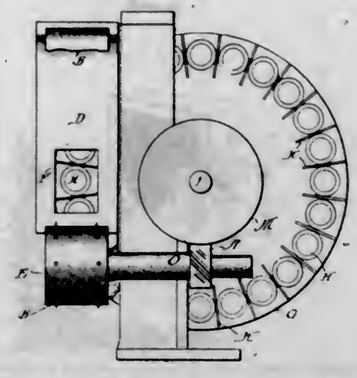
OCTOBER 30, 1928.

17,118. RUG BAG. GERTRUDE VAN GIESEN GRANGER, Savannah, Ga., assignor to Mothproof Rug Bag Company, Chatham County, Ga., a Corporation. Filed Aug. 17, 1927. Serial No. 213,939. Original No. 1,581,535, dated Apr. 20, 1926, Serial No. 44,327, filed July 17, 1925. 4 Claims. (Cl. 150—52.)



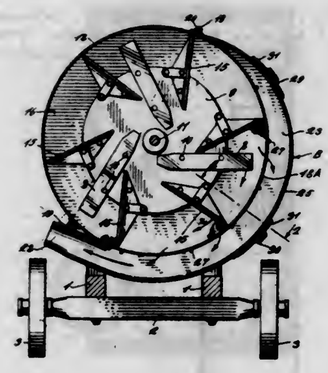
1. In a tubular bag, a top, the top attached to the bag by means of a section of the bag, said section acting as a hinge, a closure means, the closure means having a triangular clasp between the edges of the closure means in order to keep the bag in a semi-open position.

17,119. HIGH-SPEED CAMERA. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Jan. 21, 1926. Serial No. 82,760. Original No. 1,481,288, dated Jan. 22, 1924, Serial No. 461,427, filed Apr. 14, 1921. 5 Claims. (Cl. 88—16.8.)



1. The combination with a camera casing having a light aperture and film feeding devices, of a disk carrier having fixed in its peripheral zone an annular series of duplicate, closely adjacent lenses in position to pass said aperture successively, radial partitions fixed to the carrier, separating each lens from its neighbors and extending substantially to the film, and means for moving the lenses and film at identical speeds across the path of light from said aperture, said carrier, lenses, and partitions moving as if integral.

17,120. ENSILAGE CUTTER. CHARLES W. KEITH, Denver, Colo., assignor to D. K. Stephenson, Denver, Colo. Filed Aug. 7, 1928. Serial No. 298,073. Original No. 1,621,510, dated Mar. 22, 1927, Serial No. 99,810, filed Apr. 5, 1926. 11 Claims. (Cl. 146—107.)

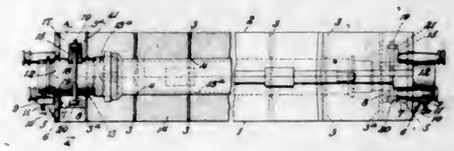


1. In an ensilage cutter, a rotor, fan blades and cutter blades mounted thereon, a casing enclosing said rotor and a foraminous partition curved about the center of rotation of the rotor and lying closely adjacent the peripheries of the fan blades to provide an exhaust passage for material passing through said partition.

17,121. MEANS FOR SUPPORTING CORE BARS IN FLASKS. JAMES R. MCWANE, Birmingham, Ala. Filed July 25, 1928. Serial No. 295,284. Original No. 1,601,450, dated Sept. 28, 1926, Serial No. 29,094, filed May 9, 1925. 16 Claims. (Cl. 22—184.)

1. Means for supporting a core bar in a flask comprising a bottom support consisting of machined webs, and

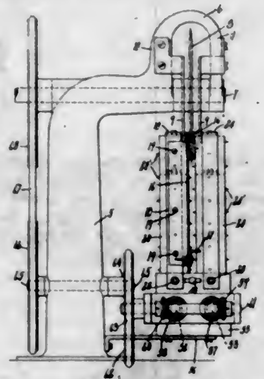
independent elements carried by the flask and bearing on top of the core bar, properly spaced from the webs in the



direction of the ends of the core bar, and adapted to exert a leverage to raise the latter at its central portion.

17,122. TAP SPLITTING MACHINE. WALTER J. RANCOURT, Boston, Mass. Filed July 26, 1928. Serial No. 295,588. Original No. 1,514,100, dated Nov. 4, 1924, Serial No. 637,192, filed May 7, 1923. 16 Claims. (Cl. 69—16.)

1. A tap splitting machine having in combination, a rotary cutter, feeding means for feeding a tap edgewise past said cutter comprising a pair of feed rolls on the approach side of said cutter having ends overlying the cutting edge and adapted to control the portion of the tap being split while the cutter is operating thereon, and other feed rolls beyond the said pair in the direction of



feed extending to close by the edge of the cutter in position to engage the unsplit portion of the tap as the tap moves past said cutter.

DESIGNS

OCTOBER 30, 1928.

76,731. BOTTLE. FRED AICHINGER, Cleveland, and JOSEPH J. KOPACKA, East Cleveland, Ohio. Filed June 28, 1928. Serial No. 27,313. Term of patent 14 years.



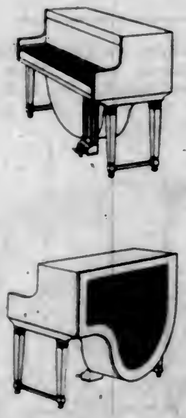
The ornamental design for a bottle, as shown.

76,732. FRATERNITY BADGE. FRANK W. BRYANT, West Lafayette, Ind., assignor to The Phi Kappa Tau Fraternity, Indianapolis, Ind., a Corporation of Ohio. Filed Mar. 11, 1927. Serial No. 21,112. Term of patent 14 years.



The ornamental design for a fraternity badge as shown.

76,733. PIANO CASE. CHARLES E. BYRNE, Chicago, Ill. Filed May 7, 1928. Serial No. 26,592. Term of patent 14 years.



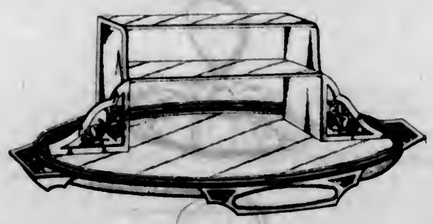
The ornamental design for a piano case substantially as shown.

76,734. ESCUTCHEON MONOGRAM PLATE. MICHAEL CHERNOW, Brooklyn, N. Y. Filed June 2, 1928. Serial No. 26,975. Term of patent 7 years.



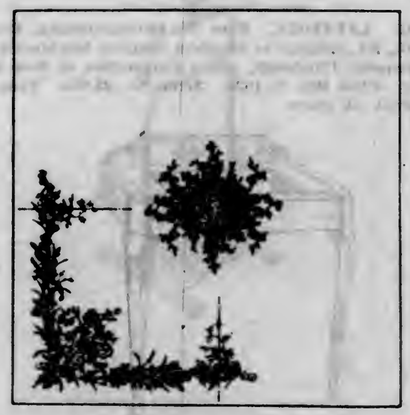
The ornamental design for an escutcheon monogram plate as shown.

76,735. TRAY OR SIMILAR ARTICLE. LEON A. DANCO, Rockville Center, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 17, 1928. Serial No. 27,864. Term of patent 14 years.



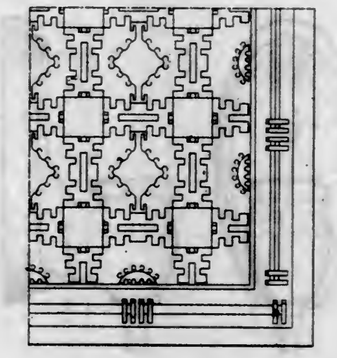
The ornamental design for a tray or similar article substantially as shown.

76,736. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Feb. 8, 1928. Serial No. 25,279. Term of patent 3½ years.



The ornamental design for a table cover or similar article, as shown and described.

76,737. RUG OR SIMILAR ARTICLE. EDYTH P. WYATT, Denver, Colo. Filed June 22, 1928. Serial No. 27,225. Term of patent 7 years.



The ornamental design for a rug, as shown and described.

76,738. RUG. AGNES DOUGLASS, Platteville, Wis., assignor to Waite Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed June 11, 1928. Serial No. 27,073. Term of patent 7 years.



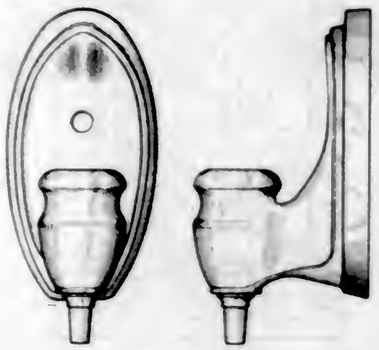
The ornamental design for a rug, as shown.

76,739. SPECTACLE TEMPLE. LOUIS DUNKELSBERG, Brooklyn, N. Y. Filed May 14, 1926. Serial No. 17,721. Term of patent 14 years.



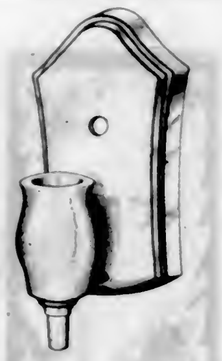
The ornamental design for a spectacle temple as shown.

76,740. LIGHTING BRACKET. JACOB DYM, Pittsburgh, Pa., assignor to Porcelier Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 20, 1928. Serial No. 24,944. Term of patent 14 years.



The ornamental design for a lighting bracket as shown.

76,741. LIGHTING BRACKET. JACOB DYM, Pittsburgh, Pa., assignor to Porcelier Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 20, 1928. Serial No. 24,945. Term of patent 14 years.



The ornamental design for a lighting bracket as shown.

76,742. CHANDELIER. WALTER JAMES FIELDING, Birmingham, England, assignor to Skinner-Hill Co., New York, N. Y., a Corporation of New York. Filed July 18, 1928. Serial No. 27,517, and in Great Britain Mar. 24, 1928. Term of patent 3½ years.



The ornamental design for a chandelier as shown.

76,743. CHANDELIER. WALTER JAMES FIELDING, Birmingham, England, assignor to Skinner-Hill Co., New York, N. Y., a Corporation of New York. Filed July 18, 1928. Serial No. 27,518, and in Great Britain Mar. 24, 1928. Term of patent 3½ years.



The ornamental design for a chandelier as shown.

76,744. TRAY. SOLOMON FORMAN, New York, N. Y. Filed Dec. 31, 1927. Serial No. 24,718. Term of patent 3½ years.



The ornamental design for a tray as shown.

76,745. LAVATORY. FRED W. FRANKENBERGER, Louisville, Ky., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 3, 1928. Serial No. 25,654. Term of patent 14 years.



The ornamental design for a lavatory, substantially as shown.

76,746. COMBINED LAMP AND MOUNTING. MORRIS L. GOLDBERG, Brooklyn, N. Y. Filed May 7, 1928. Serial No. 26,593. Term of patent 14 years.



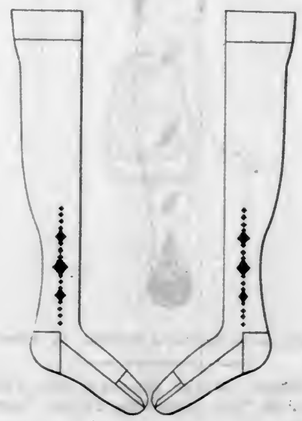
The ornamental design for a combined lamp and mounting as shown.

76,747. CLOTHES HANGER. HELAN HAILLS-KARLEBACH, New York, N. Y. Filed July 21, 1928. Serial No. 27,554. Term of patent 7 years.



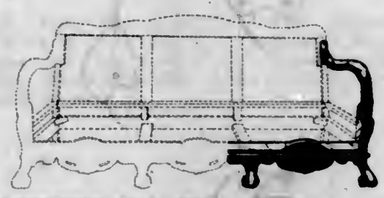
The ornamental design for a clothes hanger, as shown.

76,748. STOCKING. JOSEPH HAINES, Jr., Meadowbrook, and HAROLD T. PAGET, Philadelphia, Pa., assignors to Haines Hosiery Mills, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 26, 1928. Serial No. 25,047. Term of patent 3½ years.



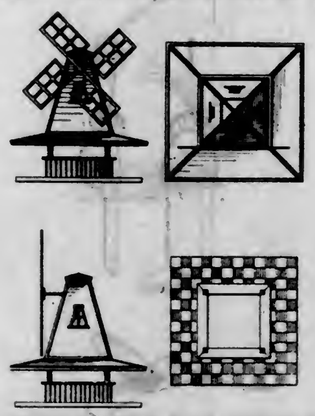
The ornamental design for a stocking, as shown.

76,749. SETTEE FRAME OR SIMILAR ARTICLE. JACOB M. HANSEN, Chicago, Ill., assignor to Hartmann-Malcom Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 10, 1928. Serial No. 27,773. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown and described.

76,750. REFRESHMENT STAND. THOMAS W. HILL and EUGENE J. REED, Swissvale, Pa. Filed Dec. 14, 1926. Serial No. 20,046. Term of patent 7 years.



The ornamental design for a refreshment stand, as shown.

76,751. STOCKING. ABRAHAM HILLER, New Orleans, La. Filed Feb. 13, 1928. Serial No. 25,427. Term of patent 14 years.



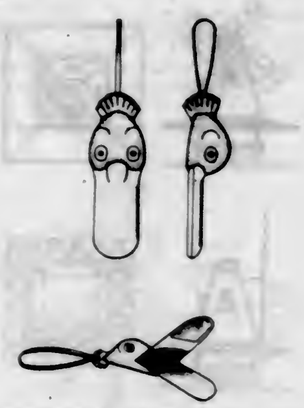
The ornamental design for a stocking, as shown.

76,752. PURSE. WYNNE HOLCOMB, New York, N. Y. Filed Dec. 30, 1927. Serial No. 24,701. Term of patent 7 years.



The ornamental design for a purse, as shown.

76,753. PURSE. WYNNE HOLCOMB, New York, N. Y. Filed Dec. 30, 1927. Serial No. 24,702. Term of patent 3½ years.



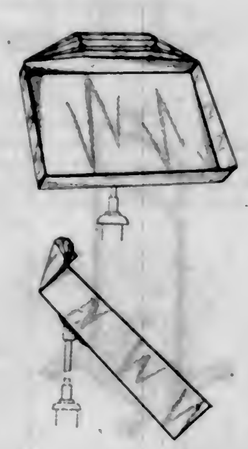
The ornamental design for a purse, as shown.

76,754. LACE MEDALLION. ULRICH HUCKENTOBLER, Union City, N. J., assignor to Charles Comora Embroidery Company, Inc., Weehawken, N. J., a Corporation of New Jersey. Filed July 31, 1928. Serial No. 27,642. Term of patent 7 years.



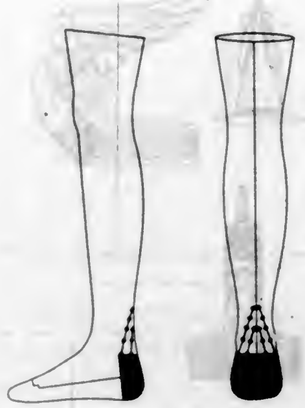
The ornamental design for a lace medallion, as shown and described.

76,755. MUSIC STAND. JOHN H. KLIEGL, New York, N. Y. Filed Jan. 9, 1928. Serial No. 24,786. Term of patent 7 years.



The ornamental design for a music stand, as shown.

76,756. STOCKING. RUBY LEFI, New York, N. Y. Filed May 14, 1928. Serial No. 26,664. Term of patent 14 years.



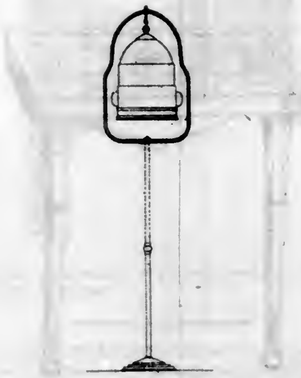
The ornamental design for a stocking substantially as shown and described.

76,757. STOCKING. RUBY LEFI, New York, N. Y. Filed July 20, 1928. Serial No. 27,545. Term of patent 14 years.



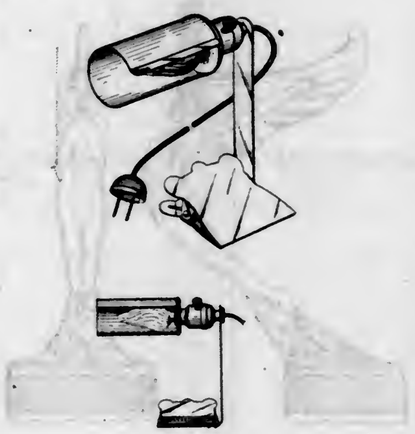
The ornamental design for a stocking substantially as shown.

76,758. LOOP FOR BIRD-CAGE STANDS. LEWICKI J. LEON, West Chicago, Ill. Filed Dec. 12, 1927. Serial No. 24,449. Term of patent 14 years.



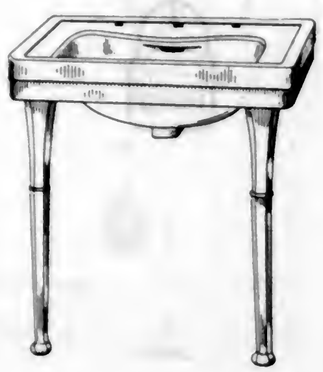
The ornamental design for a loop for bird cage stands, as shown.

76,759. PORTABLE ELECTRIC LIGHT. WILLIAM E. MCCORMICK, New York, N. Y., assignor to Melodelite Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1928. Serial No. 27,752. Term of patent 14 years.



The ornamental design for a portable electric light as shown.

76,760. LAVATORY. CHARLES B. NASH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 25,521. Term of patent 14 years.



The ornamental design for a lavatory, substantially as shown.

76,761. RADIATOR CAP. FREDERICK C. RUPPEL, Grand Rapids, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 8, 1927. Serial No. 24,411. Term of patent 14 years.



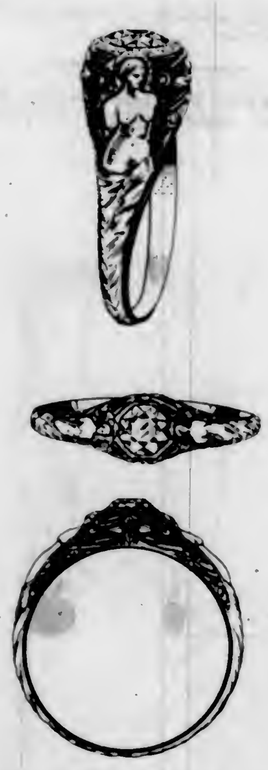
The ornamental design for a radiator cap, substantially as shown.

76,762. RADIATOR CAP. FREDERICK C. RUPPEL, Grand Rapids, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 8, 1927. Serial No. 24,412. Term of patent 14 years.



The ornamental design for a radiator cap, substantially as shown.

76,763. FINGER RING. IRVING H. SEGAL, Detroit, Mich. Filed Jan. 16, 1928. Serial No. 24,897. Term of patent 7 years.



The ornamental design for a finger ring, as shown.

76,764. BADGE. SAMUEL SEIDES, New York, N. Y. Filed May 28, 1928. Serial No. 26,884. Term of patent 14 years.



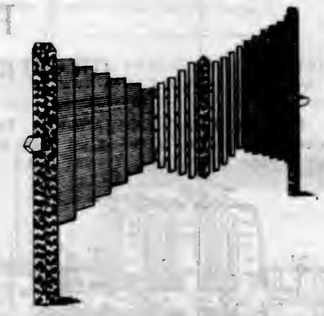
The ornamental design for a badge as shown.

76,765. ELECTRIC POPCORN POPPER. HARRY A. STEERE, San Francisco, Calif. Filed Apr. 25, 1928. Serial No. 26,458. Term of patent 14 years.



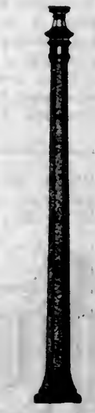
The ornamental design for an electric popcorn popper, substantially as shown.

76,766. FENCE PANEL OR SIMILAR ARTICLE. WILLIAM HOMER TAYLOR, Memphis, Tenn. Filed Sept. 19, 1927. Serial No. 23,459. Term of patent 14 years.



The ornamental design for a fence panel or similar article as shown and described.

76,767. LAMP STANDARD. FRANK G. WELSCH, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 24, 1927. Serial No. 22,541. Term of patent 14 years.

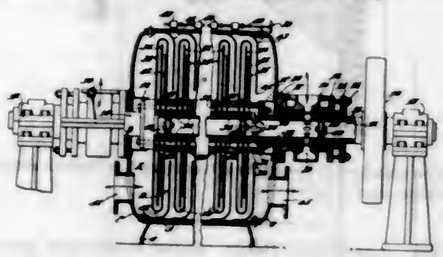


The ornamental design for a lamp standard substantially as shown.

PATENTS

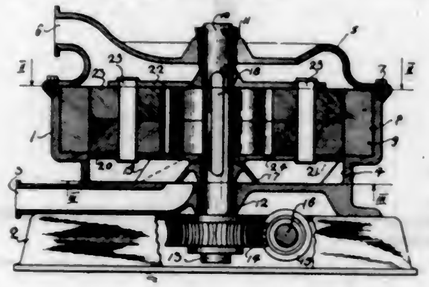
GRANTED OCTOBER 30, 1928.

1,689,189. **ROTARY HEAT EXCHANGER.** FRANK S. BROADHURST, Watertown, Mass. Filed Mar. 30, 1925. Serial No. 19,240. 11 Claims. (Cl. 257—79.)



3. A heat exchanger, having, in combination, a shell, a series of partitions each having a central opening secured to the internal peripheral surface of the shell, a hollow disk having non-central openings mounted between adjacent partitions, hubs for each disk having openings communicating with the openings in the disk, said internal peripheral surface, partitions, openings therein, and the exterior surface of the disks forming a tortuous conduit for a fluid, the interior of the disks, openings therein and in the hubs forming a tortuous conduit for another fluid, and means for simultaneously rotating the series of hubs and disks.

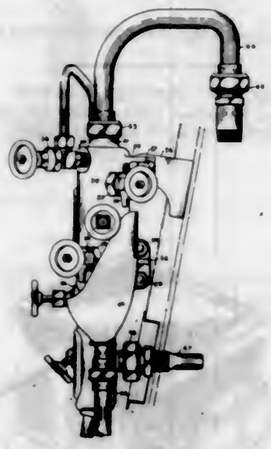
1,689,190. **ROTARY REFINER.** EDMUND P. ARPIN, Jr., Port Edwards, Wis. Filed Aug. 8, 1927. Serial No. 211,276. 7 Claims. (Cl. 92—26.)



1. A rotary refiner for paper stock, pu'p and the like, comprising a casing having inlet and outlet ports, a shaft journalled therein, an impeller secured to said shaft, a pair of spaced plates mounted upon said shaft, pins rigidly secured at their respective ends in said plates, refining members pivotally mounted upon said pins between said plates, one of said plates having openings, and deflecting means associated with said openings for directing stock between said refining members and said casing inner wall.

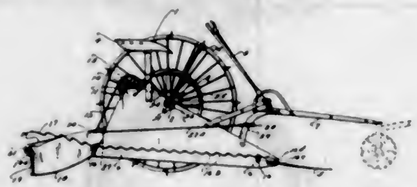
1,689,191. **WATER COLUMN.** WILLIAM O. ASHE, New York, N. Y., assignor to Nathan Manufacturing Company, New York, N. Y., a Corporation of New York. Filed June 16, 1921. Serial No. 477,872. 3 Claims. (Cl. 73—54.)

1. In combination a sloping boiler head, a water column attached thereto and having a body adapted to lie its entire length close to said sloping boiler head, gage cocks secured to said body, a water gage mounted adjacent said body, a controllable valved communication between the water column and the water gage, waste pipes communicating with said body, gage cocks and water gage respectively, a sub-casing adjacent said body and means for lighting said water gage mounted in said sub-casing.



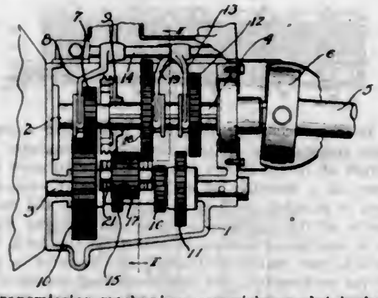
3. In combination a sloping boiler head, a water column attached thereto having a body adapted to lie its entire length close to said sloping boiler head, gage cocks secured to said body, a water gage mounted adjacent thereto, a valved communication between the water column and the water gage, waste pipes communicating with said body, gage cocks and water gage respectively, and a bracket extending from said water gage for supporting means for lighting said water gage.

1,689,192. **AGRICULTURAL MACHINE.** ELMER ASTOLA, Deep River, Wash. Filed Mar. 15, 1924. Serial No. 699,440. 5 Claims. (Cl. 209—329.)



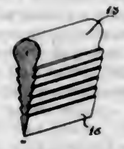
1. In an implement of the class described, crank shafts parallelly disposed, screen members mounted on said crank shafts, and means to revolve said crank shafts to impart an accelerated motion thereto during a part of each revolution, comprising driven sprockets loosely mounted on said crank shafts, slotted disks mounted to said sprockets, pins disposed on said crank shafts and engaging the slot in said disks and a tension spring alternately resisting and assisting each revolution of said crank shafts.

1,689,193. **TRANSMISSION MECHANISM.** RICHARD E. BISSELL, Cleveland Heights, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 17, 1927. Serial No. 168,865. 15 Claims. (Cl. 192—4.)



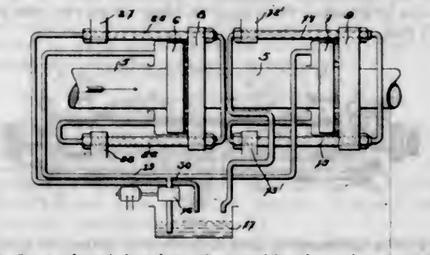
5. Transmission mechanism comprising a clutch shaft, a propeller shaft, gear mechanism adapted to connect said clutch and propeller shafts, a control shaft rotatably connected to that portion of said driving and gear mechanism which is driven in the same direction irrespective of the direction of rotation of the propeller shaft, a brake member concentric with respect to said control shaft, an internally threaded member, an externally threaded member engaged therewith, both members being concentrically arranged with respect to said control shaft, one of said members being rigidly and the other slidably and rotatably mounted on said control shaft to allow the former to move the latter longitudinally in one direction when the former is rotated in one direction and in the opposite direction when the direction of rotation is reversed, and a clutch for operatively connecting said brake and slidable members when the latter is moved longitudinally in one direction only.

1,689,194. **CREVICE MOLDING.** LESTER G. CLARK, Ferndale, Mich. Filed Oct. 14, 1926. Serial No. 141,462. 3 Claims. (Cl. 280—150.)



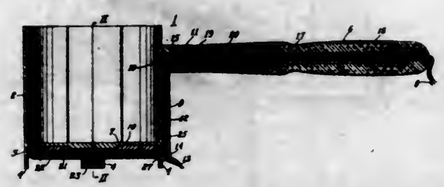
1. A trim molding adapted for insertion into a crevice comprising an elongated metallic easily bendable wedge shaped body; a head mounted on one edge of said body; and longitudinally extending corrugations on opposite faces of said body.

1,689,195. **THRUST-COLLAR EQUALIZATION.** DAVID C. DAVIS, Chester, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1922. Serial No. 592,881. 8 Claims. (Cl. 308—160.)



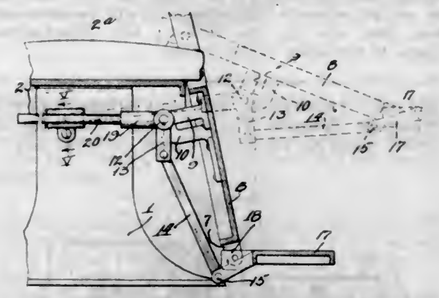
8. In a thrust bearing, the combination of a movable element, a plurality of thrust flanges secured to the movable element, thrust receiving collars cooperating respectively with the flanges, means for supporting the thrust collars, said supporting means being so constructed and arranged as to cause a relative movement between the collars in response to heat generated at the respective collars whereby the thrust is distributed therebetween.

1,689,196. **POURING LADLE.** JOHN STRUTHERS DUNN, Philadelphia, Pa. Filed Feb. 10, 1925. Serial No. 8,136. 9 Claims. (Cl. 219—44.)



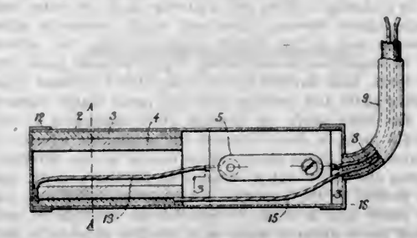
6. A metallic ladle comprising a body portion, a funnel-like spout forming one side thereof, and an electric heater element disposed adjacent the bottom of said spout so that an appreciable part of the heat from said element is transmitted to the melt within said spout.

1,689,197. **AUTOMATIC ADJUSTABLE FOOT REST.** JOHN RUSSELL EMMERT and JOHN J. POZDRO, Chicago, Ill., assignors to Emil J. Paidar Co., a Corporation of Illinois. Filed Aug. 12, 1927. Serial No. 212,372. 3 Claims. (Cl. 155—171.)



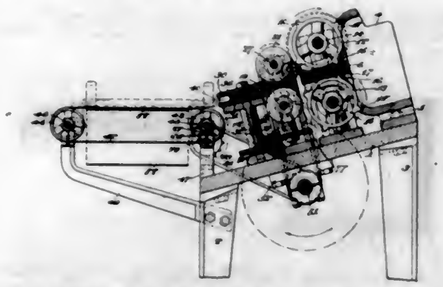
3. In a reclining chair, a swingable leg rest, a slidable and pivotally mounted supporting means therefor, a foot rest pivoted to said leg rest, an arm rigid upon said supporting means, and a link pivotally connecting said arm and foot rest.

1,689,198. **IMMERSION HEATER.** FRANCIS F. GAGELMAN, New York, N. Y. Filed Nov. 22, 1926. Serial No. 149,999. 5 Claims. (Cl. 219—41.)



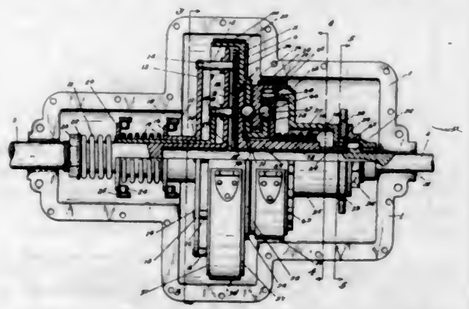
1. In a heater for liquid, a substantially cylindrical casing, a heating unit in one end thereof, and an electric circuit therefor and a thermostatic device in said circuit and in the other end of the casing, said device including a supporting block of insulating material frictionally braced along a substantial diameter between the walls of the casing.

1,689,199. FEEDING, CUTTING, ROLLING, AND FORMING MACHINE FOR PLASTIC MATERIAL. WILLIAM GANZ and HENRY GANZ, Ridgefield Park, N. J., assignors to The Sweets Company of America, Inc., New York, N. Y., a Corporation of Virginia. Filed Aug. 27, 1920. Serial No. 406,477. 3 Claims. (Cl. 107—4.)



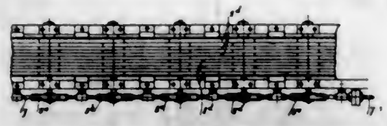
1. A machine of the character described comprising, a receiver for the plastic material, said receiver being provided with a forwardly projecting mouth having diametrically opposed slots therein; a pair of feeding rolls mounted to rotate in certain of said slots with their feeding surfaces flush with the inner walls of the mouth, a second pair of feeding rolls provided with feeding surfaces and cutting means alternately arranged thereon and mounted to rotate in other of the slots, said feeding surfaces disposed flush with the inner walls of the mouth and said cutting means arranged to pass through their slots into the receiver, whereby the feeding rolls will simultaneously feed, form and cut the material into predetermined lengths in the mouth of the receiver.

1,689,200. TWO-SPEED AND REVERSING CLUTCH. THEODORE GENSMER, Portland, Oreg. Filed Aug. 28, 1926. Serial No. 132,235. 4 Claims. (Cl. 74—34.)



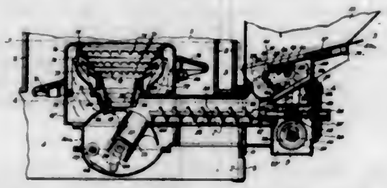
1. In a clutch, a drive and a driven shaft, an outer and an inner clutch element upon each shaft, means to cause a selected one of the clutch elements upon the driven shaft to engage a corresponding clutch element upon the drive shaft, balls carried by the outer clutch element upon the drive shaft and bearing upon the inner clutch element upon the drive shaft, an annular plate supported by the aforesaid balls, a sleeve splined for movement axially of the drive shaft, said sleeve when moved in one direction engaging the inner clutch element on the drive shaft, and when moved in the opposite direction engaging said annular plate, and a brake to prevent the rotation of said annular plate whereby when said annular plate is so prevented from rotating, at a time the inner clutch element is rotated by means of the aforesaid sleeve, rotation in the same direction at a lesser speed will be transmitted from the last mentioned inner clutch element, through the medium of said balls, to the outer clutch element upon the drive shaft, and upon engagement of the two aforesaid outer clutch elements ultimately to the driven shaft.

1,689,201. CONVEYER OPERATED AT ACCELERATED SPEED. GEORGES HALTER, Paris, France. Filed June 12, 1923, Serial No. 645,001, and in France June 17, 1922. 5 Claims. (Cl. 198—76.)



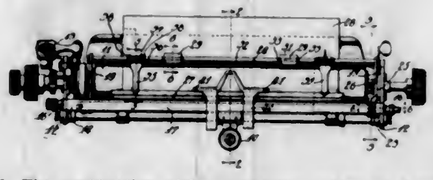
1. In a transporting apparatus comprising a series of endless transporting sections disposed in sequence in the direction of travel of the load and wherein each section consists of a plurality of endless funicular elements arranged in parallel position, imbricated with the funicular elements of the adjacent sections and forming with the same a continuous surface of travel for the load, pulleys on which said funicular elements are mounted, a driving shaft for each section, the combination of the drive shafts of all the sections with rigid driving connections controlled by a single device and actuating the successive sections as a whole in the same direction at speeds which are accelerated from one section to the next.

1,689,202. FURNACE STOKER. WILFRED A. HARE, Detroit, Mich. Filed Nov. 23, 1922. Serial No. 602,098. 7 Claims. (Cl. 110—46.)



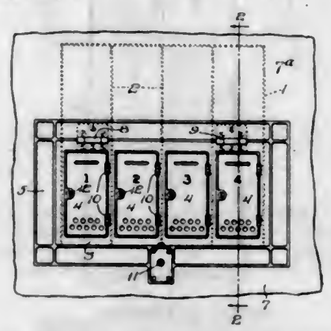
1. In a device of the character described, the combination with a hopper having a discharge throat, a casing beneath said hopper, a measuring device mounted for turning movement in said casing and having an inlet opening to receive fuel from said throat and a discharge opening, a trough member to the outer end of which said casing is attached, said trough member being positioned with its outer end in position to receive fuel discharged from said measuring device, a conveyor in said trough for conveying fuel discharged thereinto by the measuring device, means for operating the conveyor, means for rocking said measuring device about its axis, a plate adapted to project beneath the hopper throat and over the measuring device, and means for operating said plate in timed relation to the rocking movement of said measuring device.

1,689,203. WORK-HOLDING BAIL FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed June 11, 1923. Serial No. 644,549. 5 Claims. (Cl. 179—139.)



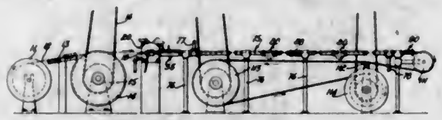
1. The combination with a typewriter platen, of a work holder bar extending longitudinally thereof and having a portion of the face thereof flattened, a spring finger having ears journaled on said bar, and a leaf spring interposed between said ears and the flat portion of said bar and arranged to bear on said bar to resiliently hold said fingers against rotation and frictionally retain said fingers in longitudinal adjustment along said bar.

1,689,204. BOX FOR MAIL AND THE LIKE. SAMUEL R. HUNTER, Mishawaka, and JOHN W. ARNOLD, South Bend, Ind. Filed July 16, 1924. Serial No. 726,295. 5 Claims. (Cl. 232—25.)



5. A mail receptacle consisting of a casing situated in a wall opening and having a back wall, top, bottom and side walls extending outwardly perpendicularly to said back wall, certain of said perpendicularly extending walls being shorter than the other perpendicular walls so that a portion of the casing will be flush with the outer edge of the wall supporting the same and the remaining portion will be concealed beneath said wall, said casing being divided into compartments, a master door for all the compartments and individual doors in said master door giving access to each compartment.

1,689,205. METHOD OF AND APPARATUS FOR CONTINUOUSLY SHEATHING CORES. LESLIE FAWCETT LAMPLOUGH, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 29, 1926, Serial No. 112,600. Renewed Sept. 13, 1928. 23 Claims. (Cl. 18—3.)



1. In an apparatus for producing sheathed articles, a device for applying a sheathing of a vulcanizable substance on a core, a vulcanizing chamber connected directly thereto, means for causing relative movement between the sheathed core and the chamber, and means for admitting a non-oxidizing vulcanizing medium under pressure into the chamber in direct contact with the vulcanizable substance, whereby the sheathing substance is vulcanized.

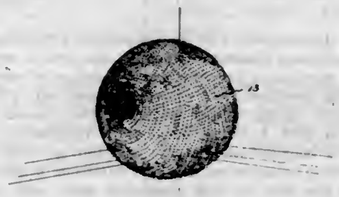
1,689,206. APPARATUS FOR TREATING VULCANIZABLE MATERIAL. LESLIE FAWCETT LAMPLOUGH, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 16, 1926, Serial No. 155,194. Renewed Mar. 22, 1928. 10 Claims. (Cl. 18—6.)

2. In an apparatus for treating vulcanizable material, a vulcanizing chamber, means for admitting a hot, non-oxidizing vulcanizing medium into the chamber under pressure, means for advancing a core sheathed with a vulcanizable material through the chamber, and a seal for permitting the withdrawal of the sheathed core from the chamber and for retaining the vulcanizing medium within the



chamber comprising a member for connecting the seal to the chamber and a plurality of interchangeable, selectively operable sealing units.

1,689,207. SCOURING BALL. RUSSELL B. KINGMAN, Orange, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a Corporation of Rhode Island. Filed Apr. 13, 1927. Serial No. 183,319. 2 Claims. (Cl. 15—209.)

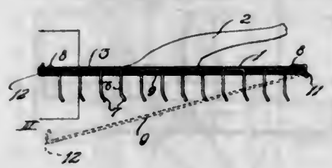


1. A scouring ball comprising an interior filling mass of balled up metallic wire, and an exterior tubular cover body of knitted metallic fabric, the free open end portions of said cover body being in-turned and gathered together to form end closures, and means to hold said end closures against opening.

1,689,208. PROCESS OF IMPARTING A WOOL FINISH TO COTTON CLOTH. MORTIMER J. MACK, Summit, N. J. Filed July 28, 1927. Serial No. 209,181. 2 Claims. (Cl. 26—1.)

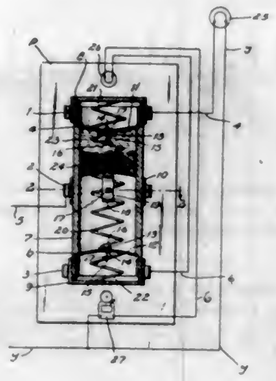
1. The herein described process of treating a cotton fabric which consists of bleaching, dyeing, napping, mercerizing, sizing and re-brushing in the order named.

1,689,209. BRUSH CLEANER. CLARA MAJEWSKI, Chicago, Ill. Filed Dec. 2, 1926. Serial No. 152,239. 2 Claims. (Cl. 15—142.)



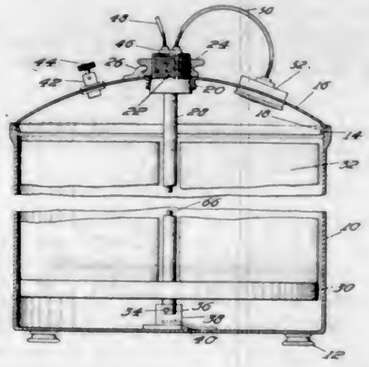
1. A brush cleaner comprising a substantially flat metallic back plate, a grooved and apertured bristle holding plate, relatively stiff metallic bristles passing through the apertures in the said holding plate and extending therebelow, said bristles having integral portions resting in the grooves of said holding plate and connecting adjacent longitudinally alined bristles to form rigidly positioned pairs of bristles, and threaded means for removably securing said back plate in contact with the bristle holding plate and with the integral portions of the bristles in the grooves.

1,689,210. THERMOSTATICALLY-OPERATED ELECTRIC SWITCH. ROGER W. MCBRIEN, Alton, Ill. Filed May 4, 1927. Serial No. 188,728. 3 Claims. (Cl. 200—123.)



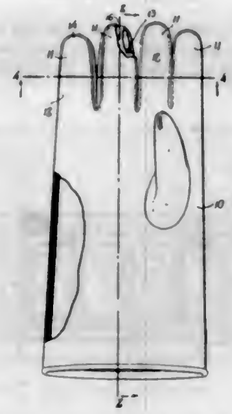
1. A thermostatic switch comprising a receptacle of a non-conducting material, a cap on one end of said receptacle, a perforated partition having electrical conductivity within the receptacle and spaced from said cap, a conductor within the casing, means for connecting one end of said conductor with a circuit outside the receptacle, a second conductor disposed between the partition and cap and having electrical connection with the partition, means for connecting one end of said conductor with said circuit, a fusible insulating wall within the receptacle and spaced from the partition, and a fluent conductor confined between the partition and wall and having electrical connection with the partition.

1,689,211. PRESSURE BOILER. FOLKE S. PETERSON, Chicago, Ill. Filed Jan. 3, 1928. Serial No. 244,698. 6 Claims. (Cl. 53—1.)



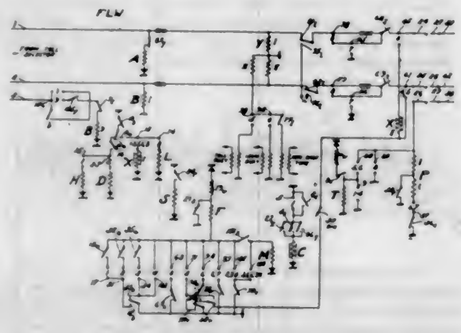
1. A pressure steam boiler, including in combination, a body cylindrical in shape, a cover adapted to fit upon the said body, and a locking element positioned in an opening in the cover, said locking element comprising a block cylindrical at its upper end, its lower end terminating in the shape of a frustrum of a cone, a hollow rod integrally attached to said block and extending downwardly therefrom, a platform, circular in shape and integrally attached to the said rod, and means for anchoring the rod in the bottom of the body of the boiler.

1,689,212. X-RAY PROTECTIVE GLOVE. JAMES PICKER, New Rochelle, N. Y. Filed May 17, 1927. Serial No. 191,962. 2 Claims. (Cl. 2—164.)



1. A protective X-ray glove having a finger member, said finger member comprising oppositely disposed and separated portions made of protective material and of sufficient width to protect the finger of the operator, said portions of protective material being connected by non-protective porous material.

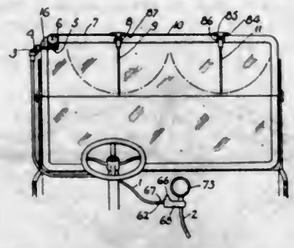
1,689,213. TELEPHONE SYSTEM. ALFRED SCHECNERT, Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Filed June 20, 1924, Serial No. 721,338, and in Germany July 5, 1923. Renewed Mar. 23, 1928. 7 Claims. (Cl. 179—18.)



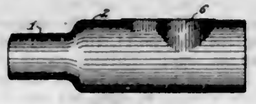
1. In a telephone system, means including a numerical switch and a non-numerical switch in serial relation for extending connections to idle lines in a group, said lines terminating in the bank of said non-numerical switch, and means in said numerical switch for testing said lines.

1,689,214. AUTOMOBILE WINDSHIELD WIPER. JAMES W. SMALL, Chicago, Ill. Filed Mar. 12, 1924. Serial No. 698,598. 9 Claims. (Cl. 15—253.)

1. In mechanism for wiping wind shields, an actuating bar extending longitudinally of the wind-shield, means at one end of said bar for reciprocating it, a pivotally mounted wiper arm, a pinion on the pivot of the wiper arm frictionally engaging said wiper arm, and operating connections between said bar and said pinion to effect the oscillation of said wiper arm through said frictional engagement with the pinion, the latter permitting manual oscillation of the wiper arm independently of said operating connections.

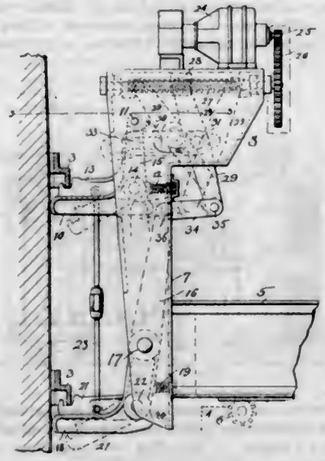


1,689,215. DRAG LINK. WILLIAM H. SPIRE, Cleveland, Ohio, assignor to Thompson Products, Incorporated, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 4, 1921. Serial No. 512,738. 3 Claims. (Cl. 287—90.)



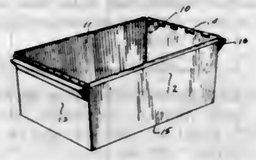
1. A drag link member comprising a cylindrical socket portion of substantially uniform gauge throughout, a keyhole slot in the wall thereof bounded by an upstanding peripheral flange of substantially the same gauge as the body of the socket portion, the end of the flange lying in a plane surface.

1,689,216. BOTTOM-TILTING-DOOR EXTRACTOR. IVOR D. THOMAS, Palmyra, Ohio, assignor to The Wellman Seaver Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 3, 1925. Serial No. 20,421. 17 Claims. (Cl. 254—84.)



1. A door extracting mechanism comprising a support adapted to be positioned in front of a door to be extracted and to be moved toward and from the door opening, upper and lower door engaging hooks carried by the support, the lower hook being movable bodily on the support toward and from the door opening, and means for moving the hooks into door engaging position and for shifting the lower of the hooks outwardly in advance of the upper hook to tilt the door.

1,689,217. RECEPTACLE. WILLIAM KING WHITE, Cleveland, Ohio. Filed June 10, 1927. Serial No. 197,849. 7 Claims. (Cl. 220—97.)



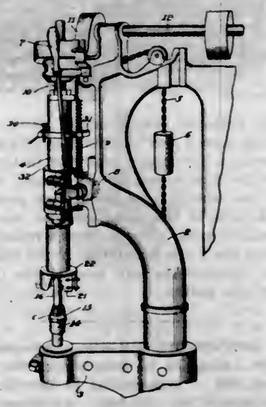
1. In a container, a rectangular bottom wall therefor, a pair of end and a pair of side walls extending upwardly from the bottom wall, a pair of handles connected to the upper edge portions of opposite end walls and adapted to be rotated thereon to alternative positions within and without the container, each of said handles comprising portions extending parallel to said end walls, and adapted to engage the end walls in both alternative positions, said portions having three sides, one of said sides adapted to engage by a portion adjacent its lower edge the outer surface of the end wall when the handle is disposed in position exteriorly of the container, said side forming a surface for engaging another container by its bottom wall when the handle is rotated to its interiorly disposed alternative position, to support the other container.

1,689,218. METHOD OF FORMING TURNBUCKLES. LOREN L. WHITNEY, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed July 24, 1924. Serial No. 727,914. 5 Claims. (Cl. 29—175.)



1. The method of forming turnbuckles or the like from a tubular blank which comprises heating the central portion of the blank, enclosing the central portion of the blank in dies limiting its outward expansion, applying means to the inside of the blank whereby its inward deformation is prevented and applying force longitudinally of the blank whereby the middle portion is forced outwardly against the dies.

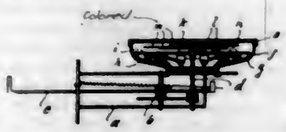
1,689,219. CLEAT-TRIMMING MACHINE. WILLIAM H. ALBEE and ARTHUR G. DAVIS, Marlboro, Mass., assignors to Koehler Manufacturing Company, Marlboro, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1926. Serial No. 148,836. 13 Claims. (Cl. 12—1.)



1. In a machine for trimming football cleats, the combination of a holder including a member having a seat on which to support a cleat, said member being tapered ad-

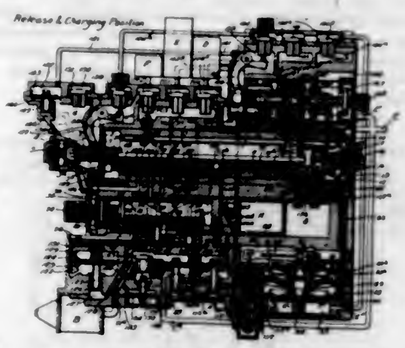
jacent to the cleat corresponding to the taper to be given to the cleat, said holder including a plunger for engaging the top of the cleat and holding it seated on said member, and a cutter cooperating with said holder to trim said cleat to a taper forming substantially a continuation of the taper of said member.

1,689,220. SPARK-PRODUCING TOY WITH CHANGING COLORS. CARL ARNOLD, Nuremberg, Germany. Filed Aug. 1, 1927, Serial No. 209,879, and in Germany July 8, 1927. 2 Claims. (Cl. 46—32.)



1. A spark-producing toy with changing colors, comprising in combination with the spark producing mechanism consisting of a driving gear and of a vertical driving shaft, a disk having apertures keyed on said driving shaft, cerium-stones attached to said disc, a casing in which said disk with apertures is located, an emery layer on the inner wall of said casing, a removable lid closing said casing, upwardly directed projections on a portion of said disk with apertures, and colored transparent disks loosely mounted in said casing and resting on said projections so that when said disk having apertures is rapidly rotated said transparent disks are pressed by the action of the centrifugal force against the inner wall of said casing so that their circulating movement is braked and the colored light changes rapidly.

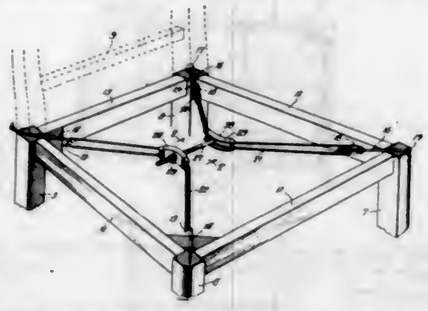
1,689,221. AIR-BRAKE APPARATUS. WILLIAM ASTLE, Brooklyn, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed July 15, 1927. Serial No. 206,101. 43 Claims. (Cl. 303—38.)



31. A fluid pressure brake control valve comprising a valve operating upon a service reduction of brake pipe pressure to connect an air supply reservoir to the brake cylinder for a service application of the brakes; means operated by a service reduction of brake pipe pressure to connect the brake pipe to the brake cylinder, said means closing said communication after a predetermined time interval, to thereby limit the amount of brake pipe air flowing to the brake cylinder through said means in service applications of the brakes.

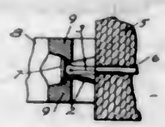
1,689,222. FURNITURE BRACE. ABRAHAM BALINKY, Chicago, Ill., assignor to Everlasting Furniture Brace Co., Chicago, Ill., a Corporation of Illinois. Filed June 10, 1926. Serial No. 114,946. 4 Claims. (Cl. 155—197.)

1. A brace of the character described comprising corner-stays, a saddle, a closed wire loop whose extremities are mounted upon said corner-stays and whose intermediate portion passes over said saddle to provide a pair of wire strands between said corner-stays, and a bolt for



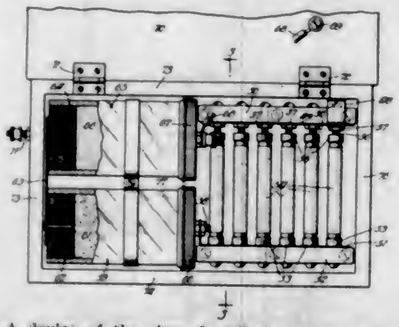
adjustably securing said saddle in position so as to exert a strong pull upon said corner-stays, said bolt also serving to maintain the strands out of contact with each other on the saddle.

1,689,223. HEAD-SPACING DEVICE. JOHN H. BAUSCHARD, Erie, Pa. Filed Mar. 11, 1926. Serial No. 93,838. 4 Claims. (Cl. 85—50.)



2. A head spacing device for nails comprising a short plate bent into V-shaped and perforated at the apex and having the opposing slopes of the plate brought together at the ends.

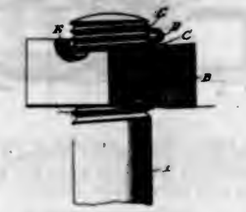
1,689,224. RADIO RECEIVING APPARATUS. JAMES A. BISHOP, Mascoutah, Ill.; Lulu H. Bishop administratrix of said James A. Bishop, deceased. Filed June 10, 1926. Serial No. 115,007. 8 Claims. (Cl. 250—20.)



1. A device of the class described comprising in combination an insulating panel, two oppositely disposed pairs of busbars thereon, a plurality of conductors for radio current joining together the busbars of each pair, electrically insulating material on each of the said wires, a sheathing of magnetic material substantially surrounding the insulation on each wire, a layer of insulation surrounding each sheathing, a substantially large electrostatic dissipation plate in close proximity to all of said devices and having a large number of relatively sharp electrostatic dissipation points, an electric connection between all of the sheathing layers and said plate, a plurality of radio current conductors connecting together

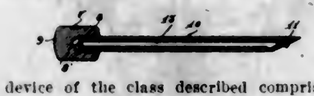
the diagonally opposite busbars of the two pairs, an electrostatic dissipation shell surrounding each of said diagonally connecting wires but insulated therefrom, a large number of sharp points on each of said shells and terminal connections to the other diagonally opposite busbars for received and delivered radio current substantially as described.

1,689,225. LOCK NUT. JAMES HOYT BROWN, Boston, Mass., assignor to Brown Lock Nut Company, a Corporation of Delaware. Filed May 2, 1925. Serial No. 27,451. 5 Claims. (Cl. 151—21.)



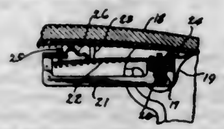
1. A lock-nut comprising a threaded nut-body slotted near one end to provide a ring resiliently connected with one side of said nut-body, said ring loosely surrounding approximately three quarters of the circumference of a bolt, said ring having, at the side opposite that at which it is joined to the nut-body, a lip, said lip exerting a resilient pressure on one side of the thread of the bolt.

1,689,226. COMBINATION PIPE CLEANER. WILFRED J. BROWN, New York, N. Y. Filed June 11, 1926. Serial No. 115,293. 3 Claims. (Cl. 131—13.)



2. A device of the class described comprising a head having a threaded bore formed at one side thereof; a tubular stem threaded into said bore and detachable therefrom at will, one end of said stem being closed and provided with a sharpened edge, and a flexible cleaning member doubled upon itself and positioned in said stem, said cleaning member projecting beyond the end of said stem when threaded into said bore.

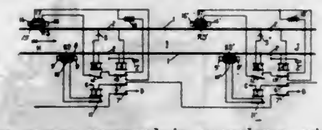
1,689,227. SEAT-SIGNAL SYSTEM. WILLIAM C. BURRELL, Kankakee, Ill. Filed May 13, 1925. Serial No. 29,937. 3 Claims. (Cl. 200—85.)



1. A circuit closer including a frame having a supporting clamp at one end and a contact element at its opposite end, and a yieldable contact member anchored at one end in connection with the first mentioned end of the frame and adapted to flex into and out of engagement at its free end with said contact element.

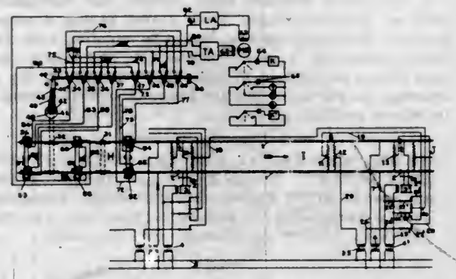
1,689,228. AUTOMATIC TRAIN-CONTROL SYSTEM. CHARLES S. BUSHNELL, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Original application filed Oct. 25, 1923, Serial No. 670,701, now Patent No. 1,620,188, dated Mar. 8, 1927. Divided and this application filed Nov. 26, 1926. Serial No. 150,901. 14 Claims. (Cl. 246—63.)

1. Trackway apparatus for automatic train control systems comprising, a track electro-magnet for producing a magnetic field, a source of energy, a track circuit, a relay connected in series with said track circuit near the energy end of the track circuit, a circuit for energizing said electro-magnet including a front contact of said relay, the winding of said magnet, said source and suitable circuit



controlling means governed in accordance with traffic conditions ahead, whereby said electro-magnet is only energized under predetermined traffic conditions ahead provided there is a train on said track circuit to increase the current in said relay.

1,689,229. TRAIN CONTROL. CHARLES S. BUSHNELL, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed June 28, 1924. Serial No. 723,047. 7 Claims. (Cl. 246—63.)



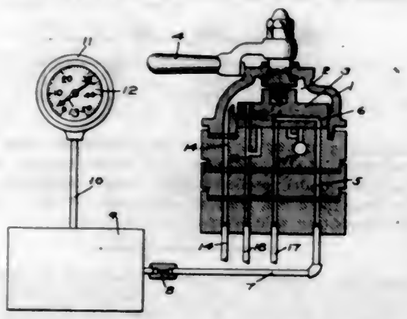
1. Car-carried apparatus for automatic train control systems of the continuous inductive type comprising, a pair of coils located in inductive relation to the track rails connected to cumulatively detect currents flowing in opposite directions in the track rails ahead of a car, two pairs of coils each pair of which is connected to cumulatively detect currents flowing in the same direction in the two track rails under the car, amplifying devices for amplifying the potentials detected from said currents, electro-responsive means connected to said amplifying devices, and means for changing the connections of said coils so as to cause them to properly detect the currents in the track rails when the direction of the movement of the car is reversed.

1,689,230. LOCKING DEVICE FOR SWITCH KEYS. HARRY J. CHRISTOPHER, Westfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 27, 1926. Serial No. 157,328. 2 Claims. (Cl. 200—166.)



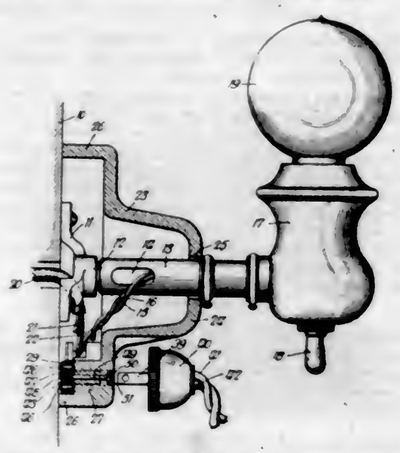
1. The combination with a switching appliance, a supporting frame having springs affixed thereto, a rocking lever journaled in the supporting frame and adapted to be set in different angular positions thereon, means provided with a series of openings in spaced relation from each other adapted to be clamped to the rocking lever through a selected opening and coacting with the frame to confine the range of movement of said lever in accordance with the selected opening in said means to predetermined engagement with desired springs.

1,689,231. BRAKE-INDICATING DEVICE. WILLIAM E. DEAN, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 8, 1927. Serial No. 159,845. 3 Claims. (Cl. 161—15.)



1. In a fluid pressure brake system, the combination with an engineer's brake valve device having a release position, of a reservoir adapted to be supplied with fluid under pressure at a predetermined rate, and a gage operated by the increase in pressure in said reservoir for indicating the period of time the brake valve device remains in release position.

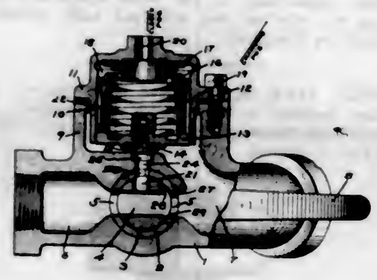
1,689,232. ELECTRICAL FIXTURE WITH CONVENIENCE OUTLET. VICTOR R. DESPARD, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a Corporation of Indiana. Filed June 18, 1924. Serial No. 720,778. 2 Claims. (Cl. 173—334.)



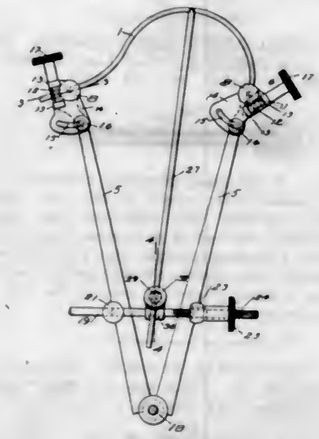
1. In a device of the character described, a cup-like member having a central projection provided with an opening therein and having a flattened wall portion provided with a pair of openings spaced from said first mentioned opening, a contact carrying member detachably mounted in the hollow of said cup-like member and on the inner face thereof opposite said pair of openings and a pair of contacts on said contact carrying member extending into said paired openings.

1,689,233. ANGLE-COCK DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 17, 1927. Serial No. 226,581. 4 Claims. (Cl. 303—86.)

4. An angle cock device comprising a key having a water-way adapted to establish communication from one side of the key to the other in the open position, said waterway having a port opening to one side of the key in a position intermediate the open and the closed positions and the angle cock device having a restricted port which communicates with said waterway at the other side of the key in said intermediate position.



1,689,234. VARIABLE CURVE-FORMING DEVICE. CHRISTIAN G. FILZER, Erie, Pa., assignor of one-half to Herman Steinruck, Erie, Pa. Filed Apr. 20, 1925. Serial No. 24,403. 2 Claims. (Cl. 33—177.)

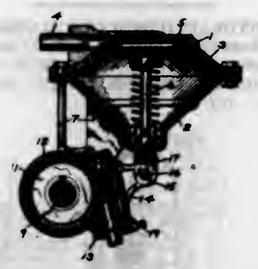


1. In a variable curve forming device, the combination of a flexible curve forming element; pivotal mountings in which the element is slidingly mounted; screws for locking the element in the pivotal mountings; worm gears on the pivotal mountings; worms for actuating the gears; pivoted arms on which the mountings are pivotally mounted and the worms journalled; and means for adjusting the arms to vary the distance between the pivots of the mountings.

1,689,235. BRAKE SLACK ADJUSTER. LESTER A. FOWLER, Oakland, Calif., and HENRY D. HUKILL, Pittsburgh, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 15, 1924. Serial No. 692,968. 1 Claim. (Cl. 188—196.)

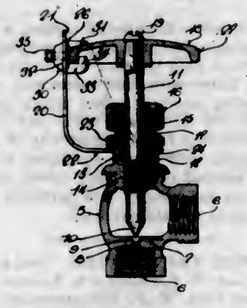
The combination with a diaphragm brake chamber comprising casing members and an interposed flexible diaphragm and a diaphragm rod operable by said diaphragm, of a bracket secured to one of said casing members, a cam shaft mounted in bearings in said bracket, a casing

mounted on said shaft intermediate the bracket bearings and pivotally connected to said diaphragm rod, a worm wheel mounted in said casing and secured to said shaft,



and a rotatable worm mounted in said casing and meshing with said worm wheel for varying the angular position of the cam shaft with respect to said casing.

1,689,236. VALVE STRUCTURE. JOHN FRASER, Jr., Milwaukee, Wis., assignor to Milwaukee Valve Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 14, 1925. Serial No. 75,306. 3 Claims. (Cl. 116—125.)

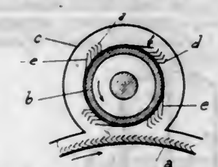


2. A valve structure, comprising a valve body having an inlet and an outlet, a port connecting the inlet and outlet, a valve member operable to close the port, a stem extending from the valve member outwardly of the valve body, an operating member on the stem, an indicating finger carried by the valve body and cooperating with delineations on the operating member to indicate the position of the valve, a substantially U-shaped stop member engaged over the periphery of the operating member and adjustable thereabout, one arm of the stop member providing a setting finger cooperating with the delineations on the operating member for the setting of the stop member, the other arm thereof engaging the valve member stem, and means for fixing the stop member with relation to the operating member, whereby the stop member cooperates with the indicating finger in the setting of the valve member at a desired point.

1,689,237. MANUFACTURE OF FINISHING LIME. VICTOR M. FREY, York, Pa. Filed Feb. 12, 1925. Serial No. 8,687. 7 Claims. (Cl. 23—188.)

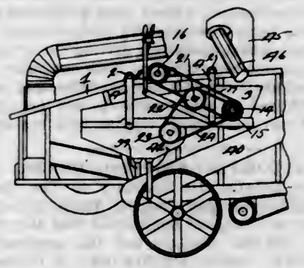
5. A process for manufacturing finishing lime which consists in grinding impure dolomite, in decarbonating the ground dolomite without admixture of other solid substances, while agitating the same at a temperature below that necessary to produce sintered or hardened particles, and in hydrating the product thus obtained.

1,689,238. CLEARING MECHANISM FOR PREPARATORY MACHINES FOR TEXTILE FIBER. CHARLES GÉGAUFF and JULES PELIMLIN, Mulhouse, France. Filed July 22, 1927, Serial No. 207,794, and in Germany July 30, 1926. 5 Claims. (Cl. 19—98.)



1. In a preparatory machine for textile fiber, a clearing roll provided with fiber-engaging teeth, said roll having a shield disposed in advance of the teeth, to direct flying fibers away from the base of said teeth.

1,689,239. CLOVER HULLER. JOHN GEIGER, Minden, Iowa. Filed Apr. 27, 1926. Serial No. 104,931. 2 Claims. (Cl. 130—2.)



1. The combination with a grain threshing machine, means for operating said threshing machine, an inclined conveyor to one side of the threshing machine and below the same, of a clover hulling machine to one side of the threshing machine and above the conveyor, operating connections between the threshing machine and the clover hulling machine, means for discharging hulls from the clover hulling machine onto the conveyor, and means for discharging hulled clover to the outside of the conveyor.

1,689,240. REMOVABLE BUCKLE HOLDER FOR SHOES. LOUIS W. GORDON, New York, N. Y. Filed Oct. 21, 1926. Serial No. 143,210. 7 Claims. (Cl. 2—245.)

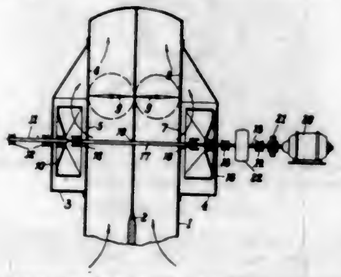


1. An ornament supporting device for slippers, comprising two spring arms connected by a bend or loop at one end, said arms crossing one another X fashion and having their free ends adapted to be inserted over the vamp of a slipper when their two connected ends are pressed together, said free ends being bent substantially in the same direction transversely of said arms, and forming surfaces substantially following the outline of and adapted to clamp said vamp, securely holding the device in position when the pressure is released.

1,689,241. MECHANICAL-DRAFT INSTALLATION. EUGEN HABER, Berlin-Charlottenburg, Germany. Filed Nov. 30, 1927, Serial No. 236,711, and in Germany Dec. 29, 1926. 3 Claims. (Cl. 110—162.)

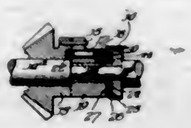
1. A mechanical draft installation, comprising in combination with a chimney having in each of two opposite side

walls an upper aperture and a lower aperture, a vertical central partition subdividing said chimney into two compartments, a blower casing on each of said opposite side walls of said chimney covering the corresponding two apertures, a blower consisting of a vane wheel in each casing for sucking the flue gases from the corresponding compartment into the blower casing and for returning said flue gases through the corresponding upper aperture into the



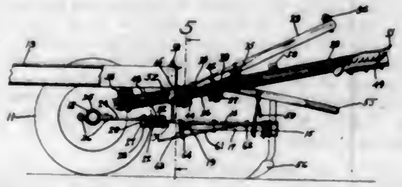
chimney, regulating flaps in each chimney compartment between said two apertures, a short shaft projecting from the outer side into each blower casing and carrying the corresponding vane wheel, means for driving one of said short shafts, a transverse rod extending from one short shaft to the other short shaft through said partition, and an elastic clutch at each end of said transverse rod for elastically coupling said two short shafts the one with the other.

1,689,242. AUTOMATIC STOPPING MEANS. SEVERIN HALVORSEN, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash., a Corporation of Washington. Original application filed May 20, 1922, Serial No. 562,462. Divided and this application filed June 5, 1924. Serial No. 718,169. 2 Claims. (Cl. 192—150.)



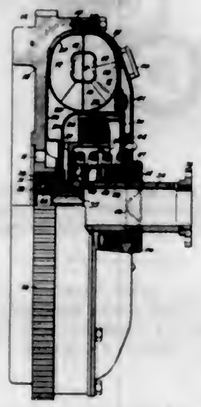
2. The combination of separate shaft sections, one of which is provided with a metallic member having an insulating block and the other of which is provided with an insulating sleeve carrying a commutator ring and a metallic member mounted on said insulating sleeve and containing an insulating sleeve having a pin adapted normally to contact with said insulating block, a spring tending to push said pin outwardly, a pin between the metallic members on said shaft sections and a brush on the metallic member on the second mentioned shaft section.

1,689,243. CULTIVATOR. SAMUEL KENNEDY, Jr., Clear Lake, Iowa. Filed Mar. 14, 1925. Serial No. 15,650. 7 Claims. (Cl. 97—47.)



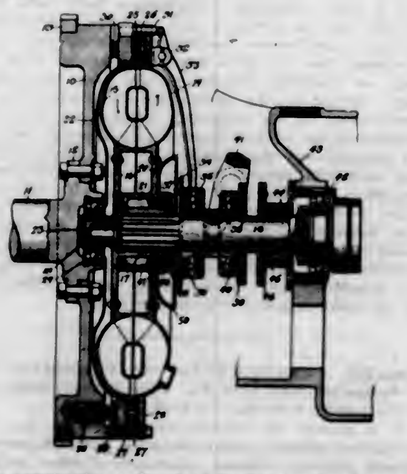
1. The combination with a draft yoke, of a tool frame having a forward rail, and a tool bar and ground-working tools carried thereby, side bars connecting said tool bar with said rail, said side bars comprising diverging upper and lower members, said upper members when connected to said rail holding the tools of such tool bar at a certain angle to the ground line and the other side bars when connected to said rail holding said tools at a different angle to the ground line.

1,689,244. HYDRAULIC-POWER TRANSMITTER. GUSTAV A. KLIMEK, East Rutherford, N. J., assignor to Turbine Patents Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 7, 1925. Serial No. 7,468. 10 Claims. (Cl. 60—54.)



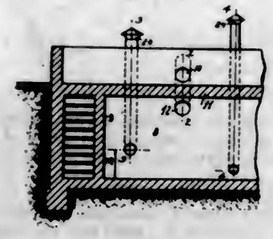
1. In combination a fly wheel including a body portion and a casing member secured to the periphery thereof to define a chamber, a fluid impeller within the fly wheel and secured to the latter with fluid inlets and outlets facing toward said casing member, a fluid driven member within said casing member with fluid inlets and outlets facing toward the outlets and inlets respectively of said impeller, a partition engaging said fly wheel adjacent to the center of the latter and secured to said fluid driven member, and a mechanical clutch encircled by said partition and having a clutch part secured to said partition.

1,689,245. POWER TRANSMITTER. GUSTAV A. KLIMEK, East Rutherford, N. J., assignor to Turbine Patents Corporation, New York, N. Y., a Corporation of Delaware. Filed July 28, 1926. Serial No. 125,343. 8 Claims. (Cl. 60—54.)



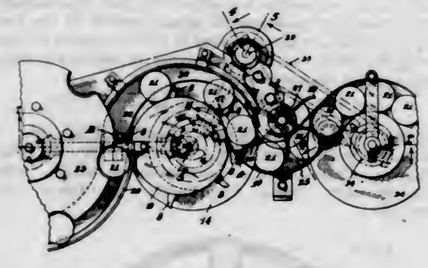
2. In combination a fly wheel having a pair of spaced clutch parts adjacent to the periphery thereof, and relatively movable axially, a hydraulic power transmitter, including an impeller member and a turbine member, said impeller member having a clutch part juxtaposed between said first mentioned clutch parts.

1,689,246. SYSTEM OF VERTICAL DIFFERENTIAL VENTILATION. ACHILLE KNAPEN, Brussels, Belgium. Filed Jan. 29, 1927, Serial No. 164,496, and in Belgium Jan. 30, 1926. 2 Claims. (Cl. 98—32.)



1. In a system for the ventilation of a chamber or the like, a substantially vertical duct connecting the upper portion of said chamber with the external atmosphere whereby the upper strata of air in said chamber may pass upwardly and outwardly, and a second duct of relatively smaller cross section and longer length than said first mentioned duct, connecting the lower portion of said chamber with the atmosphere whereby air from the exterior may flow downwardly and into said chamber thus causing a continuous flow of air through said chamber.

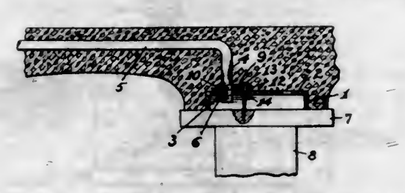
1,689,247. CONVEYING AND ACCELERATING DEVICE. PAUL H. LANGE, Bridgeport, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a Corporation of New York. Filed Sept. 17, 1926. Serial No. 136,047. 6 Claims. (Cl. 198—22.)



1. A conveying and accelerating device including: two rotatable members eccentrically disposed with respect to each other, a body engaging arm pivotally connected to one of said members, a pin and slot connection between said arm and the other member whereby the one member is driven from the other, and a support for the body driven at a speed slightly less than that of the arm at the point where it first engages the body.

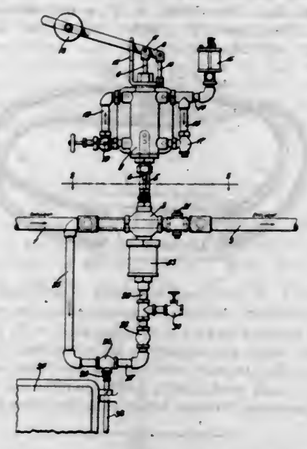
1,689,248. LOCK NUT FOR ELECTRICAL CONDUITS. JOHN A. MALCOLM, Cleveland, Ohio. Filed Dec. 27, 1923. Serial No. 682,990. 3 Claims. (Cl. 247—15.)

1. The combination of a concrete form, an outlet-box having its open end against the inner surface of said concrete form, said outlet-box having an opening through its bottom for receiving the conduit, a member resting upon the outer face of the bottom of said outlet-box adapted to hold the conduit in said opening of the outlet-box to prevent movement of the conduit, the outlet-box having an aperture in its bottom, the member having an aperture



adapted to register with the aperture in the bottom of the outlet-box, and a fastening means adapted to pass through said apertures and be secured to said concrete form.

1,689,249. STEAM AND LIQUID CONTROL MECHANISM. WALTER C. MITCHELL, St. Louis, Mo. Filed Feb. 25, 1927. Serial No. 171,021. 9 Claims. (Cl. 137—139.)

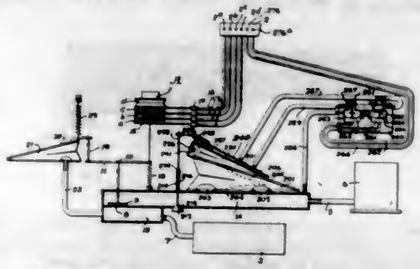


1. Mechanism for controlling the passage of fluids comprising a valve housing, an influent pipe to said housing, an effluent pipe from said housing, a valve in said housing for opening and closing communication between said pipes, a by-pass pipe from said influent pipe to said effluent pipe, a device in said by-pass pipe adjustable to permit a desired amount of fluid to pass continuously from said influent pipe to said effluent pipe, a piston for opening said valve, a pipe for conducting fluid from said influent pipe to one side of said piston, a rotary valve for opening and closing said last-named pipe, and optionally operable means in connection with said last-named pipe between the valve therein and said piston permitting exhaust of fluid from said last-named pipe.

1,689,250. AUTOMATIC MUSICAL INSTRUMENT. CHARLES F. STODDARD, New York, N. Y., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 21, 1924. Serial No. 707,798. 9 Claims. (Cl. 84—41.)

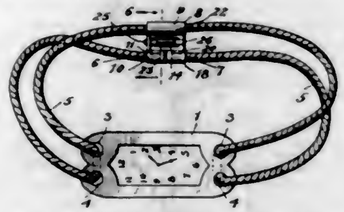
1. In an automatic musical instrument having player pneumatics and a source of pneumatic power, in combination, a throttle valve interposed between said player pneumatics and source of pneumatic power, and influenced by the force of exhaust from said source of pneumatic power toward open position; an accordion bellows connected to said throttle valve comprising sections having different extents of movement; means to collapse said sections selectively to thereby vary the degree of exhaust applied to

said player pneumatics; and additional pneumatic means connected to said throttle valve to maintain at said player



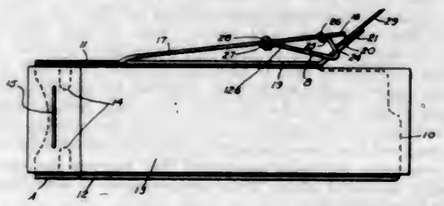
pneumatics the degree of exhaust established by said varying means whether one or many notes be sounded simultaneously.

1,689,251. FASTENING DEVICE FOR WRIST WATCHES. BENJAMIN OGUSH, New York, N. Y., assignor to Katz & Ogush, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 27, 1928. Serial No. 273,224. 5 Claims. (Cl. 24—123.)



1. A clasp of the class described comprising a pair of fastener members, one of said members having an opening, the other member having a stud adapted to fit therein and detachably unite the members, an attaching cord, means on each of the fastener members for receiving and holding one end of said cord, and a guide member on one of the fastener members through which said cord may freely slide.

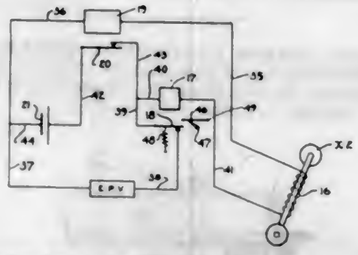
1,689,252. CHECK-NOTCHING DEVICE. CHARLES T. RASCHICK, St. Paul, Minn. Filed Feb. 5, 1923. Serial No. 617,004. 4 Claims. (Cl. 206—40.6.)



1. In combination with a check holder and cutter, a body adapted to hold a pad of checks, a cutter having a cutting tongue positioned edgewise of said checks and a stop formed on said cutting tongue positioned perpendicularly thereto and extending longitudinally thereof and adapted to pass between the checks of said pad when the cutting tongue is depressed.

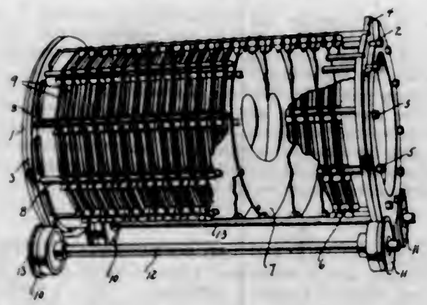
1,689,253. AUTOMATIC TRAIN-CONTROL SYSTEM OR THE LIKE. OSCAR A. ROSS, New York, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Apr. 20, 1921, Serial No. 462,801. Renewed Apr. 19, 1927. 10 Claims. (Cl. 246—63.)

8. In a train control device, in combination: an inductive device including a coil; a train control device; a relay including an armature; two circuits, one including the train control device and the other including a coil of



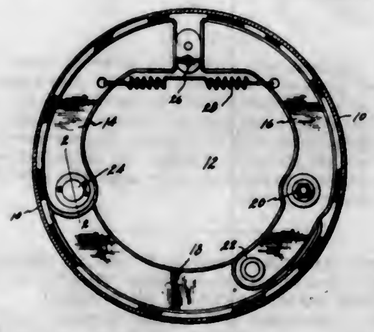
the inductive device the relay and the relay armature and means included in said circuits whereby a lack of integrity causes an operation of the train control device.

1,689,254. STRING-BEAN GRADER. FRANK PITTIS RYDER, Niagara Falls, N. Y. Filed May 13, 1927. Serial No. 191,090. 6 Claims. (Cl. 209—98.)



1. A string bean grader having in combination inner and outer cylindrical members of different diameters so interlocked that rotation of one will rotate the other, positively driven means for supporting and rotating one of the cylindrical members and means carried by the positively driven means and mounted to rotate thereon for supporting the other cylindrical member in definite relation to the rotated member.

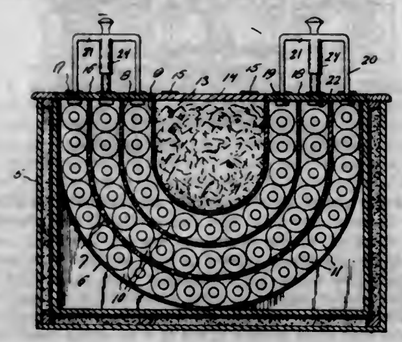
1,689,255. VEHICLE BRAKE MECHANISM. ROY S. SANFORD, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1927. Serial No. 171,503. 22 Claims. (Cl. 188—78.)



16. A brake comprising a drum and retarding means engageable with the drum, in combination with means for holding at least a portion of the retarding means in any

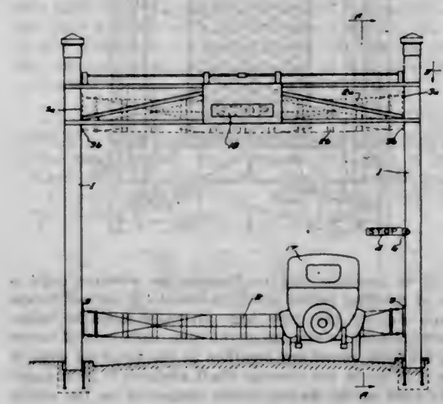
position to which it is shifted, the eccentricities of the drum serving to shift said portion of the retarding means to a position slightly spaced from the drum when the brake is released.

1,689,256. BOTTLE-DISPENSING REFRIGERATOR. JAMES E. SAPP, Bainbridge, Ga., assignor of one-half to Perry D. Rich, Bainbridge, Ga. Filed Apr. 2, 1928. Serial No. 266,684. 6 Claims. (Cl. 312—36.)



1. A bottle refrigerator comprising a casing, and a plurality of semi-cylindrical tubs nested in spaced relation within said casing to form water-communicating U-shaped channels through which rows of bottles are adapted to be passed in horizontal side by side relation, a single hinged cover for the intake ends of all of the channels, and a manually depressible ejecting device carried by said cover for simultaneously moving all of the rows of bottles and partially ejecting a bottle at the delivery end of each of said channels.

1,689,257. YIELDABLE BARRIER WITH MECHANICAL STOP SIGNAL. EMERSON D. SAWYER, Chicago, Ill. Filed Nov. 2, 1925. Serial No. 66,298. 1 Claim. (Cl. 39—1.)



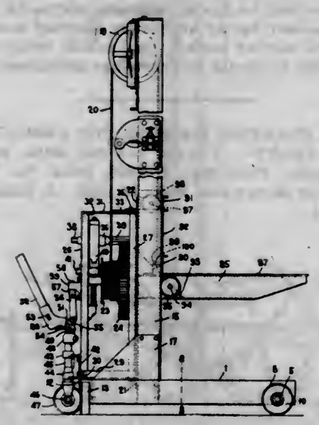
The combination consisting of a yieldable barrier carried by movable carriages, the carriages being mounted to slide in columns at each end of the barrier, a stop signal semaphore mounted on a flexible arm, said arm attached to a shaft revolvably mounted within a bearing on said column, a crank attached to the shaft, a connecting rod connected to the crank, the connecting rod being pivotally mounted at its upper end to a slidable hook and the tip of said hook cushioned and set so as to be in contact with the movable carriage of the barrier during the first increment of the downward travel of said carriage and during the last increment of the upper travel of the carriage, together with a spring means for forcing the hook downward, all substantially as described and shown.

1,689,258. APPARATUS FOR PHOTOGRAPHIC COLOR PROCESSES. MERRILL W. SEYMOUR, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 22, 1927. Serial No. 214,541. 24 Claims. (Cl. 95—2.)



1. In combination in an optical system for use in a color process, a color screen and a light obstructing device, the color screen comprising distinct, differently colored, light transmitting areas and the light obstructing device having portions corresponding in position to said areas and transmitting to said several areas respectively amounts of light predetermined in accordance with the ascertained requirements of the process.

1,689,259. PORTABLE LOAD CARRYING AND HOISTING MACHINE. FREDERICK J. SHEPARD, Jr., Auburndale, and NATHANIEL WARSHAW, Boston, Mass., assignors to Lewis-Shepard Company, Watertown, Mass., a Corporation of Massachusetts. Filed May 3, 1926. Serial No. 106,366. 15 Claims. (Cl. 187—11.)



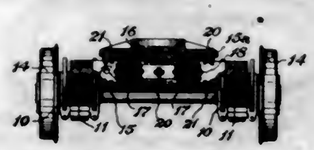
9. A portable hoisting machine having a base frame comprising side girders and a transverse girder of angle iron fitting upon and connecting the front ends thereof, standards rigidly secured to said side girders, at a distance from their front ends, forming guides for upwardly movable load supporting means, a standard-connecting girder located at a distance from said base frame, a rectangular supplemental frame for the elevating mechanism having its base supported upon the central portion of said transverse girder, and detachably secured thereto, and means connecting the upper rear corner of said supplemental frame to the central portion of said standard-connecting girder, whereby the supplemental frame and the elevating mechanism carried thereby may be readily removed as a unit similar supplemental frame having other elevating mechanism substituted.

1,689,260. CUSHION ARCH SUPPORT. JOHN STROOTMAN, Buffalo, N. Y. Filed Sept. 2, 1925. Serial No. 54,034. 1 Claim. (Cl. 36—71.)



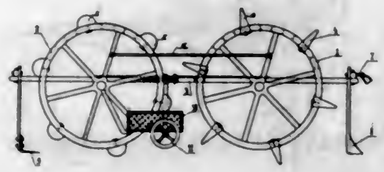
A removable arch-support, comprising a flexible cushion having a cavity to receive the heel and the arch of the foot, the outer side-wall of the cavity being substantially straight and its inner side-wall convex to fit the concavity of the inner side of the arch.

1,689,261. LATERAL-RESISTANCE DEVICE. CHARLES W. TODD, Schenectady, N. Y. Filed Aug. 27, 1926. Serial No. 131,937. 4 Claims. (Cl. 105—189.)



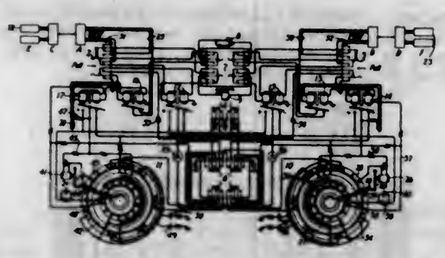
1. A roller seat for lateral resistance devices for railroad trucks, said seat having alternately reversed toothed inclines on its bearing surface, the inclines being substantially straight at the top and curved at the bottom.

1,689,262. PLANTING MACHINE FOR CABBAGE AND OTHER PLANTS. THOMAS VAN DEN ENDE, Maasdijk, Netherlands. Filed Sept. 2, 1926, Serial No. 133,249, and in the Netherlands Sept. 2, 1925. 1 Claim. (Cl. 111—91.)



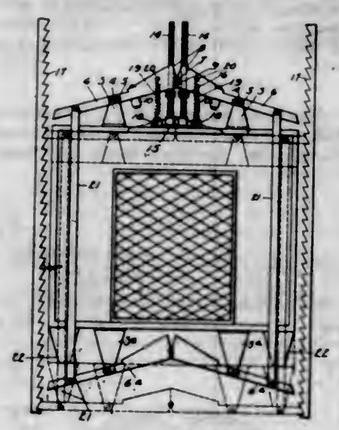
A planting machine for cabbage or other plants comprising a frame, a wheel rotatably mounted on said frame and provided with a plurality of planting spades equally spaced about the periphery thereof and extending therefrom, and a second wheel rotatably mounted on said frame behind said first wheel and provided with a plurality of pressing feet equally spaced about the periphery thereof and extending therefrom, said pressing feet being spaced about the periphery of said second wheel a distance equal to the peripheral distance between the planting spades on said first wheel and adapted to rotate in a vertical plane laterally spaced from the vertical plane of rotation of said planting spades, whereby said pressing feet are adapted to exert a sideward pressure to close the holes made by said planting spades.

1,689,263. PRINTING TELEGRAPHY. GILBERT S. VERNAM, River Edge, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 8, 1926. Serial No. 134,252. 16 Claims. (Cl. 178—71.)



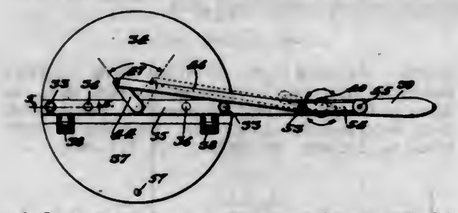
1. In a telegraph system adapted for transmission alternately in each direction, two line sections, an intermittently operated timing device, means for operating said device under the direct control of both sections to receive, regenerate, and repeat signal impulses from one section to the other section when the other section is in a receptive condition and for retaining said device in normal position when the said other section is not in a receptive condition.

1,689,264. ELEVATOR-STOP MECHANISM. JOHN S. VRAHORITIS, Detroit, Mich., assignor of one-half to Stanley J. Abromaitis, Detroit, Mich. Filed July 11, 1927. Serial No. 204,743. 3 Claims. (Cl. 187—84.)



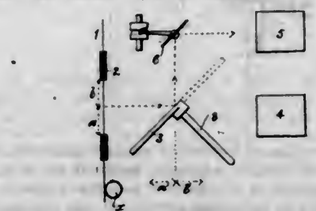
3. In an elevator stop mechanism, an elevator cage, a series of hoisting cables attached thereto, a pair of levers at each side of the cage each pivotally mounted intermediate its ends on the top of the cage, each pair of levers being hingedly connected together at the abutting ends, a series of racks in the elevator shaft adapted to be engaged by the ends of the levers, means supported on the cables normally holding the levers out of engagement with the racks, a series of springs tending to throw the levers into engagement with the racks upon breakage of the elevator cables, a series of levers pivotally mounted on the bottom of the cage corresponding in position to the levers on the top of the cage, an arm pivotally connecting each lever on the top of the cage with the respective lever on the bottom of the cage for simultaneously actuating the lower lever with the respective upper lever, each pair of levers being provided with faces at the abutting ends arranged to come into contact as the ends of the levers are moved into the racks to limit turning movement of the levers on their pivots.

1,689,265. CORN POPPING AND VENDING APPARATUS. ALBERT R. WALKER, St. Louis, Mo. Filed Nov. 19, 1923. Serial No. 675,564. 3 Claims. (Cl. 53—4.)



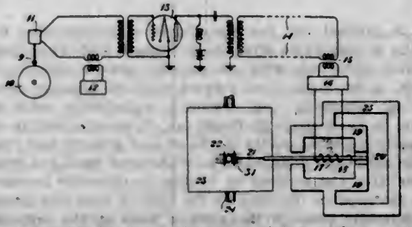
1. In a corn popper, a stove comprising a cylindrical shell having a heating element in the lower portion thereof, a supporting spider above said heating element, a series of inwardly projecting spacing elements arranged annularly on the inner face of said shell above said supporting spider, and a kettle rotatably seated on said supporting spider and between said spacing elements in concentric spaced relation to said shell.

1,689,266. PROJECTION APPARATUS AND METHOD. HARRY WATSON, Yorkshire, England. Filed Nov. 20, 1922, Serial No. 602,047, and in Great Britain Dec. 21, 1921. 18 Claims. (Cl. 88—16.8.)



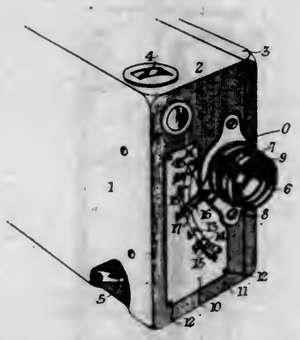
1. In an apparatus of the class described, a gate member exposing two stationary pictures of a picture strip, an objective in front of one of said pictures, a mirror moving in an angular plane to said pictures and between the latter and said objective, a second objective laterally spaced from the first objective, a second mirror disposed to reflect light from the first mirror through said second objective, said first mirror in its movement reflecting the other of said pictures to the second mirror and through the second objective whereby the projection of said other picture is imposed upon that of the first named picture.

1,689,267. METHOD AND APPARATUS FOR PICTURE TRANSMISSION. ALLAN WEAVER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 15, 1923. Serial No. 681,001. 11 Claims. (Cl. 178—13.)



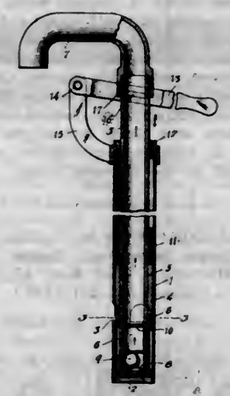
1. A member having a picture receiving surface, a stylus in engagement therewith, means to traverse the said member relatively to the stylus, means to produce a sustained alternating carrier current, means to modulate said carrier current with respect to its amplitude, means to transmit said carrier current modulated corresponding to a picture to be transmitted, and means to apply the received modulated carrier current to vibrate the stylus in correspondence with the received carrier current.

1,689,268. DIAPHRAGM-ADJUSTING MECHANISM FOR CAMERAS. OTTO WITTEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 5, 1927. Serial No. 189,131. 7 Claims. (Cl. 95-64.)



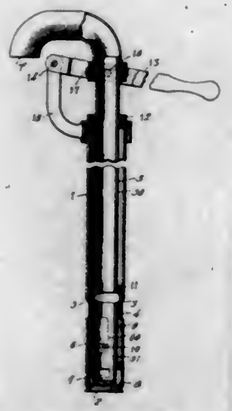
1. In an optical equipment for cameras, the combination with a support, of a slotted objective mount slidably carried thereby, an axially slotted diaphragm member carried by the mount and a diaphragm adjusting member projecting into the two slots whereby longitudinal movement of the diaphragm relative to the diaphragm is permitted, and the diaphragm and adjusting member may be radially turned together.

1,689,269. PUMP. JOSEPH W. WOODRUFF, Elizabeth, N. J. Filed Nov. 19, 1925. Serial No. 70,013. 4 Claims. (Cl. 103-188.)



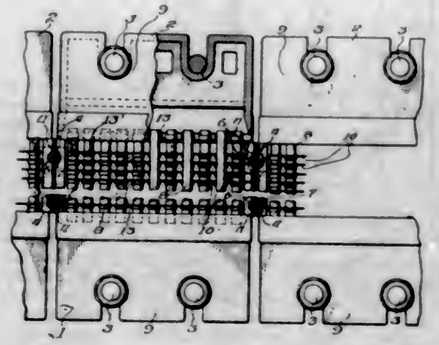
1. A pump comprising a cylinder closed at one end and having an inlet opening in spaced relation to said closed end, a piston sleeve formed of a substantially straight tube reciprocable in said cylinder and having a sliding fit therewith, said sleeve having a slot spaced from the inner end thereof to establish communication between said inlet opening and the passage through said sleeve, a substantially straight outlet and operating tube slidably fitting within said piston sleeve to open and close communication through said slot, said outlet tube having a valve seat at its inner end facing inwardly of said tube, a check valve cooperating with said seat to permit flow of fluid from said cylinder into said tube, means connecting said piston sleeve and said outlet tube to permit limited movement of said tube relatively to said piston sleeve in opposite directions to open and close said slot and to cause movement of said sleeve with said tube after said slot has been opened or closed, and means for reciprocating said outlet tube.

1,689,270. PUMP. JOSEPH W. WOODRUFF, Elizabeth, N. J. Filed Sept. 18, 1926. Serial No. 136,222. 4 Claims. (Cl. 103—188.)



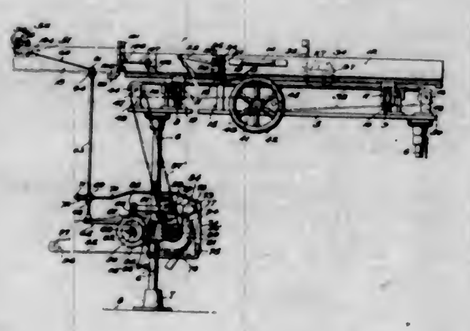
1. A pump comprising a cylinder closed at one end and having an inlet opening in spaced relation to said closed end, a plunger in said cylinder having a longitudinal channel closed at its inner end and lateral openings into said channel adjacent said inner end, a sleeve slidable in said cylinder and upon said plunger adapted to close and open said openings upon the outward and inward strokes of said plunger respectively, a passage being provided between said inlet opening and said closed end of the cylinder, and means for limiting movement of said sleeve relatively to said plunger whereby communication through said passage between said inlet opening and the closed end of said cylinder is established on the outward stroke of said plunger and cut off on the inward stroke and communication between said closed end of the cylinder and said channel in the plunger is established on the inward stroke and cut off on the outward stroke.

1,689,271. RADIATOR. FRED M. YOUNG, Racine, Wis., assignor to Perfex Corporation, Racine, Wis., a Corporation of Wisconsin. Filed Sept. 17, 1926. Serial No. 136,094. 1 Claim. (Cl. 257—130.)



A radiator fin structure comprising a metallic sheet apertured to receive water tubes and transversely slotted at points between the water tube apertures and having the slotted portions offset to form closed bottom scoops adjacent the slots, each scoop being open at the slot end, whereby some of the air passing along said sheet is most efficiently directed through said sheet.

1,689,272. PACKER AND FEEDER FOR CARTON BLANKS. WILLIAM C. YOUNG, Battle Creek, Mich., assignor to Postum Company, Incorporated, Battle Creek, Mich., a Corporation of Delaware. Filed May 18, 1927. Serial No. 192,402. 30 Claims. (Cl. 271—62.)



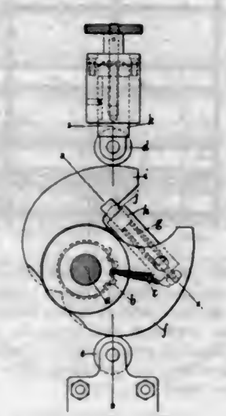
1. In combination, a receiver, a support adjacent thereto, and a blank holding magazine mounted on said support for movement to a delivery position aligned with said receiver and to a loading position at one side thereof.

1,689,273. DIVIDED RIM. EMIL ZIPPER and WALTER ZIPPER, Vienna, Austria. Filed Mar. 7, 1927, Serial No. 173,501, and in Austria July 9, 1926. 3 Claims. (Cl. 152—21.)



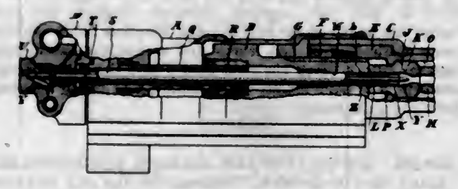
3. A divided rim for the wheels of automobiles, comprising a removable rim flange formed with two oblique guiding slots and with an annular groove opening inwards, a fixed rim part formed with an annular groove opening outwards and normally registering with the groove in the removable flange, an expansible locking ring normally engaging partly in one of said grooves and partly in the other and adapted to be withdrawn from the groove in the fixed rim member by having its diameter increased, pins fastened to the ends of the locking ring and projecting laterally through the guiding slots in the removable rim flange for the purpose of being actuated by a suitable key to alter the diameter of the ring, undercut heads on the extremities of the bent ends of the locking ring, to facilitate secure engagement with said key, a locking plate pivoted to the removable rim flange and adapted in one position to cover up the greater part of the guiding slots when the ring is in the locking position, and collars on the bent ends of the locking ring, the locking plate being adapted to engage under said collars.

1,689,274. GRINDING OF GEAR-WHEEL TEETH. HARRY HALES ASBRIDGE, Ashton-on-Mersey, England, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England. Filed Dec. 27, 1927, Serial No. 242,801, and in Great Britain Oct. 18, 1927. 3 Claims. (Cl. 51—52.)



1. In machines of the type specified for grinding gear wheel teeth, the combination comprising a single templet arranged in operative connection with the toothed wheel, an abutment with which the templet co-operates, a spring one end of which acts upon the templet, a cam member which is acted on by the other end of the spring and is movable relatively to the templet, and a second abutment with which the cam member co-operates, substantially as described.

1,689,275. CLEANSING-FLUID-CONVEYING TUBE FOR ROCK DRILLS. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 3, 1928. Serial No. 258,888. 4 Claims. (Cl. 121—10.)

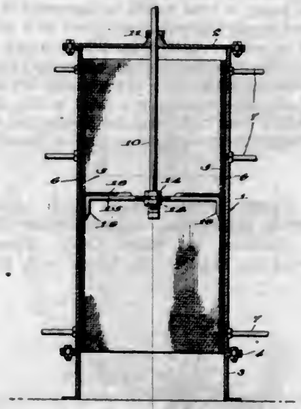


1. In a rock drill, the combination of a cylinder and a hammer piston, a front head for the cylinder, a hollow drill steel extending into the front head, an anvil block for transmitting the blows of the hammer piston to the drill steel, a tube extending through the piston and into the anvil block for conveying cleansing fluid into the drill steel, and a neck on the tube to prevent contact between the tube and the rearward end of the anvil block.

1,689,276. ZIRCONIUM-TREATED IRON-CHROMIUM ALLOY. FREDERICK M. BECKET, New York, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia. Filed May 8, 1926. Serial No. 107,796. 3 Claims. (Cl. 75—1.)

1. A wrought article composed of a ferrous alloy containing zirconium and between 10% and 60% of chromium, said alloy having working properties superior to those of an alloy free from zirconium but otherwise identical in composition.

1,689,277. CLEANER FOR FILTERING ELEMENTS. CHARLES ST. CLAIR BURNS, Port Arthur, Tex., assignor of one-half to Foist Kay, Port Arthur, Tex. Filed Sept. 24, 1927. Serial No. 221,739. 3 Claims. (Cl. 210—152.)



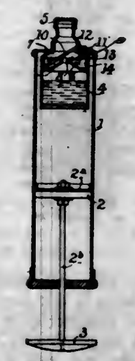
1. The combination with a filter having a reticulated filtering element; of a cleaner for said element, comprising a shaft mounted for reciprocable and rotary movement through the filter, a spider fixed to said shaft and having scraper blades, and wire brushes also carried by said spider adjacent to and rearwardly of said blades.

1,689,278. RAILROAD CROSSING. GEORGE D. CRABBS, Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed June 29, 1926. Serial No. 119,299. 6 Claims. (Cl. 238—8.)



4. A railroad crossing consisting of rails and a traffic surface, said surface composed of a plurality of independent preformed non-laminated units of bituminous material containing a pulverulent mineral material having the characteristics of having been formed under pressure into independent slabs adapted to withstand strains and stresses without fracture.

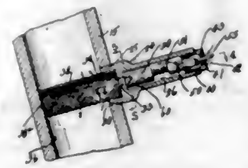
1,689,279. SPRAYING DEVICE. JEAN DORMOY, Levallois-Perret, France. Filed July 9, 1926, Serial No. 121,444, and in France July 17, 1925. 1 Claim. (Cl. 299—88.)



In a spraying device, the combination of a hand-operated air pump, a receptacle which is adapted to contain the

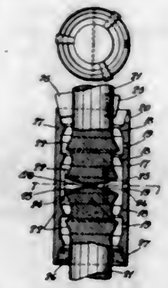
spraying liquid and is disposed within the said pump, a cap which closes both the pump body and the said receptacle, a filling plug mounted on the said cap, said pump including a conduit affording an atmospheric connection with the interior of the pump, a tube which is immersed in the said receptacle and opens into the atmosphere at a point adjacent the end of said conduit, a partition having the form of an annular trough which is disposed in the said receptacle and divides the latter into two unequal chambers, the inner end of said tube opening at a point within said annular trough, and a removable plug for closing the outer end of said tube when the spraying apparatus is inoperative.

1,689,280. FUEL ECONOMIZER AND AIR-INLET VALVE FOR INTERNAL-COMBUSTION ENGINES. ISAIAH J. FANSLER, Sr., Watts, Calif. Filed June 7, 1926. Serial No. 114,359. 5 Claims. (Cl. 251—144.)



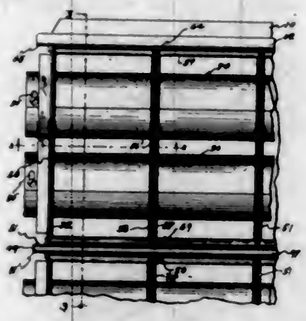
4. As an article of manufacture an air inlet valve for internal combustion engines comprising an elongated tubular casing having an elongated compartment therein, said casing at one end having an annular flange extending into the compartment to provide a reduced exit port, the opposite end of the casing being internally screw threaded, a detachable cap in said screw threaded opening having a reduced inlet port to the compartment, a valve for cooperation on the cap at the reduced inlet port within the compartment, a bifurcated seat member mounted on the annular flange in the compartment in straddling relation with the exit port, said seat member at the end thereof facing the valve member having a socket therein, and a spring seated in said socket and engaging the valve to force the latter to close the air inlet opening.

1,689,281. JOINT IN IRON STRUCTURES AND REENFORCING MEMBERS. CARL ABRAHAM FORSSELL, Stockholm, Sweden. Filed Oct. 4, 1924, Serial No. 741,749, and in Sweden Oct. 29, 1923. 11 Claims. (Cl. 72—114.)



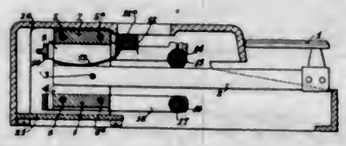
8. In a joint of the character described, a sleeve provided with internal swells, a rod provided with a funnel shaped head arranged concentrically within the sleeve, guiding ribs arranged longitudinally with the sleeve for guiding the head of the rod, and a filling material for anchoring the rod within the sleeve.

1,689,282. COMPOSITION BUILDING-BLOCK MOLD. OLIVER P. FULLER, Detroit, Mich. Filed Mar. 12, 1925. Serial No. 14,872. 1 Claim. (Cl. 25—121.)



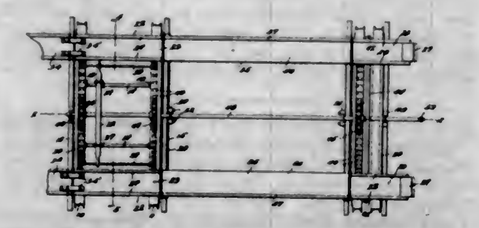
In a sectional block mold of the class described, side walls having openings formed therein; core forming members projected through said openings transversely of said walls, said core forming member being composed of a plurality of collapsible parts; and a truncated triangular pyramidical spreader for insertion into said cores for expansion of the same.

1,689,283. STENOGRAPHIC MACHINE. MARC GRANDJEAN, Paris, France, assignor to Societe Anonyme Stenotype Grandjean, Paris, France. Filed Feb. 18, 1927, Serial No. 169,380, and in France Mar. 16, 1926. 8 Claims. (Cl. 197—9.)



1. In a stenographic machine, the combination of key-levers, an axle about which pivot the said key-levers, rigid flat blades disposed between the said key-levers and traversed by said axle, spacing members between the said blades, the width of the said spacing members being slightly larger than that of the levers and means for assembling together into a block the said blades and the said spacing members, the said blades being adapted to guide between them the said levers.

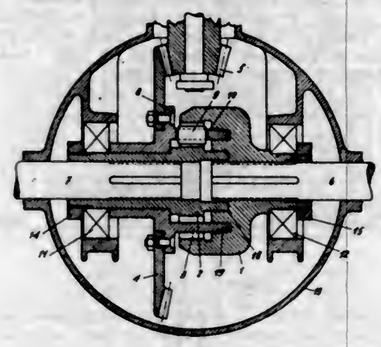
1,689,284. APPARATUS FOR TILTING AUTOMOBILES. JOLLY ROY HOLCOMBE, Columbia, S. C., and FRANCIS FICKLING DUNBAR, Augusta, Ga., assignors to The Auto Cradle Company, Orangeburg, S. C., a Corporation of South Carolina. Filed Mar. 1, 1927. Serial No. 171,825. 11 Claims. (Cl. 214—1.)



1. In a device for tilting vehicles, in combination, a pair of spaced, tiltable cradles, wheel troughs on each cradle, intermediate runways between the wheel troughs of the two

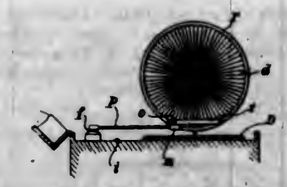
cradles when they are in a substantially horizontal position, and means to automatically move said runways laterally when said cradles are tilted.

1,689,285. DIFFERENTIAL GEAR FOR SELF-PROPELLED VEHICLES. HERMANN KNAB, Nuremberg, Germany, assignor of one-half to Gottfried Weidmann-Meier, Zurich, Switzerland. Filed July 29, 1926, Serial No. 125,759, and in Germany Oct. 6, 1925. 4 Claims. (Cl. 74—7.)



1. A differential gear for self-propelled vehicles having a bisected rear axle, comprising in combination a driving member, two coupling members, each adapted to be rigidly fixed to one of the coaxial shafts, said driving member being in mesh with one of said coupling members, said members having a great but unequal number of cams on their concentric opposing faces, the inner member having the larger number and preferably but one cam in excess of the outer member, rollers between said faces and engaging simultaneously by the cams of both members, the cams of the inner members being inverted with reference to the outer cams, the angles in which a roller acts on the inner and the outer members being different to produce equal torques on the rear axle parts.

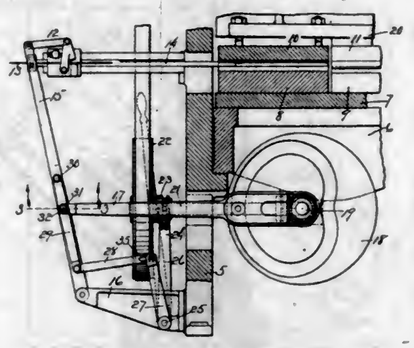
1,689,286. TALKING MACHINE EMPLOYING LARGE DIAPHRAGM. LOUIS LUMIÈRE, Lyon, France. Filed Nov. 4, 1924, Serial No. 747,860, and in France Nov. 28, 1923. 9 Claims. (Cl. 181—31.)



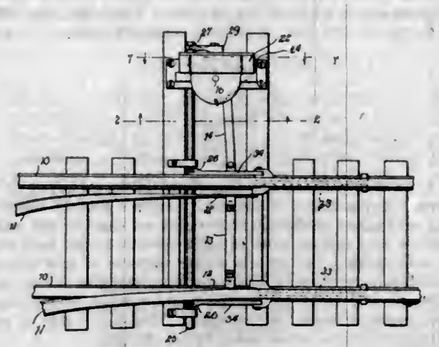
2. In combination with a casing, a horizontally swinging arm pivoted to said casing, a diaphragm adapted to occupy a substantially vertical playing position, and pivotal means for securing the diaphragm to said arm, and permitting movement of the diaphragm in its own plane and also in a plane at right angles thereto, the major portion of said diaphragm being located above said arm when the diaphragm is in playing position.

1,689,287. STOP-MOTION MECHANISM. GEORGE FRANKLYN MATTESON, Rocky Hill, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed May 2, 1925. Serial No. 27,577. 12 Claims. (Cl. 192—150.)

1. A stop motion mechanism including a member movable to stop operation of the machine, an operating device, and a connection between said movable member and said operating device, said connection including a member operable independently of said movable member under normal conditions, and a member adapted to move under abnormal conditions to increase the movement of said operable member and thereby cause a stopping movement of said independently operable member.



1,689,288. RAILWAY SWITCH AND LOCK MECHANISM. JOHN ROBERT MCKINNIS, San Bernardino, Calif. Filed June 23, 1927. Serial No. 200,943. 7 Claims. (Cl. 246—448.)

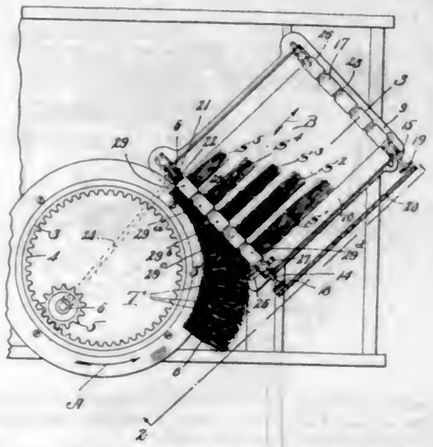


1. In a railway switch, the combination with the switch points and lock members therefor, of operating means including a rack bar, a coacting gear wheel in mesh with the teeth of the rack bar, a pinion, teeth projecting from the rack bar and adapted to operate the pinion during a portion of the movement of the rack bar, a manually operable member for actuating the said gear wheel, connecting means between said manually operable member and the lock mechanism, and connecting means between the said pinion and the switch, the parts being disposed so that during the initial movement of said manually operable member the loc kmechanism is actuated and in a continued movement the switch is thrown and in a final movement the lock mechanism is reset to secure the switch.

1,689,289. PROCESS OF AND APPARATUS FOR PREPARING TEXTILE FIBER FOR SPINNING. NORMAN H. MIDGLEY, Newton Center, Mass. Filed Dec. 16, 1926. Serial No. 155,154. 6 Claims. (Cl. 19—122.)

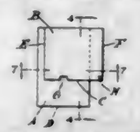
1. Apparatus of the class described comprising a rotary circular comb ring having teeth for confining one end of the fibers of a mass, the other ends of said fibers being free and extending radially of the comb ring, a series of co-

axial pairs of roller elements, and means for rotating the comb ring and turning the roller elements, the axes of said roller elements being so disposed relating to the comb ring



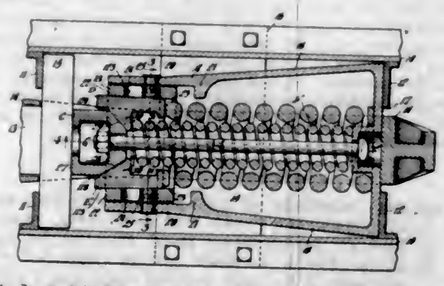
that the roller elements at one end of the series are nearer to the circumference of the comb ring than those at the other.

1,689,290. SHINGLE. GEORGE W. MILLS, Jr., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed May 16, 1922. Serial No. 561,405. 8 Claims. (Cl. 108—8.)



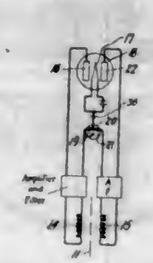
1. In a shingle of varying thickness so arranged as to form upper surfaces in different planes, a surface connecting said upper surfaces and forming an edge on the upper side of said shingle substantially parallel to the butt edge of said shingle, one of said upper surfaces of said shingle adapted to be covered by overlapping shingles whose butt edges overlie the edge on the upper side of said shingle, and means arranged in the edge on the upper side of said shingle to space apart overlapping shingles.

1,689,291. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 31, 1927. Serial No. 164,885. 3 Claims. (Cl. 213—24.)



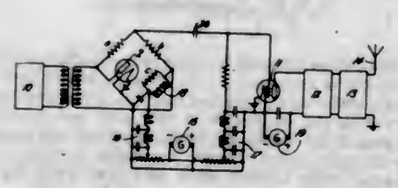
1. In a friction shock absorbing mechanism, the combination with a spring cage element; of a removable friction shell element telescoped within the cage element, said elements having relative movement limited to less than the full compression stroke of the mechanism; stop means on the cage element for limiting inward movement of the shell element; means for limiting outward movement of the shell element, said means including a fixed pin on one of said elements working in a slot on the other element; friction means co-operating with the shell; and spring resistance means within the cage co-operating with the friction means.

1,689,292. NAVIGATION-DIRECTING SYSTEM. HENRY W. O'NEILL, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 25, 1923. Serial No. 647,494. 2 Claims. (Cl. 177—385.)



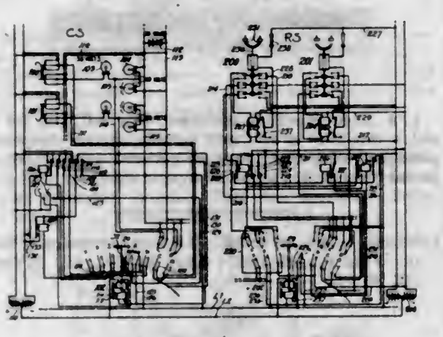
1. A navigation directing system for a vessel comprising a conductor carrying a current of a certain frequency, a receiving circuit comprising two coils oppositely disposed on the vessel in a field of force emanating from said conductor, means for selectively amplifying the currents induced in said coils by the current in said conductor, a full wave vacuum tube rectifier for rectifying the amplified currents, a differential galvanometer having one winding connected in circuit with one space path of said rectifier so as to be responsive to the rectified currents flowing therethrough, and having a second winding connected in circuit with the other space path of said rectifier so as to be responsive to the rectified currents flowing therethrough, and a source of potential connected in circuit with both space paths of said rectifier so as to oppose the rectified currents therein, for stabilizing the indications of said galvanometer.

1,689,293. SIGNALING SYSTEM. ARTHUR A. OSWALD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 20, 1925. Serial No. 31,475. 13 Claims. (Cl. 178—44.)



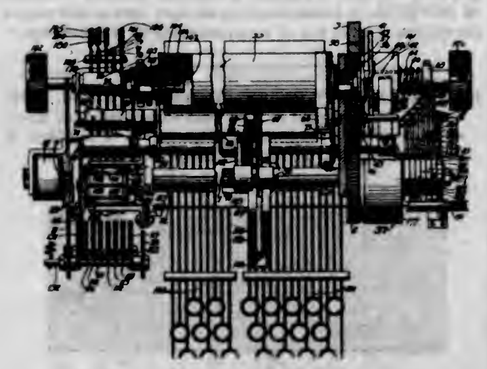
1. In a transmission system, a source of waves having a component of given frequency, an output circuit to which said waves are applied, and means interposed between said source and said output circuit for maintaining an unbroken connection between said source and the output circuit and for limiting the amplitude of the component of said frequency applied to the output circuit to a predetermined value irrespective of the amplitude of the waves applied from said source.

1,689,294. REMOTE CONTROL AND INDICATING SYSTEM. LOUIS M. POTTS, Tenafly, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 27, 1925. Serial No. 71,873. 4 Claims. (Cl. 177—353.)



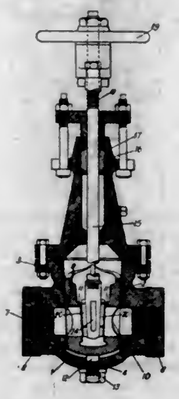
1. In a remote control system, a control station, a remote station, line conductors joining said stations, a pair of distributors one at each station associated with said conductors, devices at the remote station to be operated, circuits at the remote station controlling the operation of the same, keys at the control station for said devices, means including said conductors whereby the distributor at the control station and said keys prepare the individual circuits jointly with the other distributor, means actuated by the distributor at the control station, after said circuits have been prepared, for transmitting a definite code of impulses to the other distributor, and means at said distributor actuated thereby to complete the prepared circuits.

1,689,295. PRINTING TELEGRAPH. LOUIS M. POTTS, Tenafly, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1926. Serial No. 87,228. 20 Claims. (Cl. 178—25.)



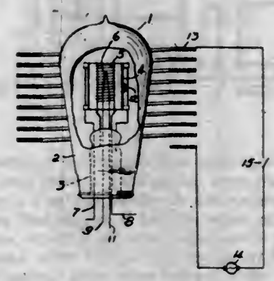
1. In a printing telegraph receiver, a rotatable and axially movable typewheel, a main driving shaft, a printing platen, means controlled by said shaft for imparting a rocking motion to said platen to bring the paper into engagement with said typewheel, and means for rotating said platen to feed the paper forward.

1,689,296. VALVE FOR HIGH-PRESSURE AND HIGH-TEMPERATURE PURPOSES. ORRION D. REDDING, Columbus, Ohio, assignor to The Valve Equipment Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 2, 1927. Serial No. 172,124. 10 Claims. (Cl. 251—59.)



1. In a high temperature valve structure, a valve casing having a valve chamber disposed therein, a valve cage adapted to interfit with said valve chamber, said valve cage having internally raised valve seats integral therewith and said valve cage being adjustable by means externally of said casing to shut off the flow of fluid through the valve structure while repairs or adjustments are being made to the said valve structure.

1,689,297. VACUUM DEVICE AND METHOD OF EXHAUSTING SAME. HARVEY CLAYTON RENTSCHLER, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Aug. 16, 1922. Serial No. 582,261. 8 Claims. (Cl. 250—27.5.)



1. The method of evacuating an electron device or the like including a plate, comprising attaching a piece of aluminum to said plate, sealing the plate into a bulb, exhausting said bulb to a moderate vacuum, heating said plate to drive off occluded gases therefrom and continuing said heating until the aluminum thereon is vaporized and eliminates the residual gases in the device.

1,689,298. BOTTLE CAPPER. HAROLD G. RICE, Chicago, Ill. Filed Feb. 5, 1927. Serial No. 166,095. 15 Claims. (Cl. 226—84.)

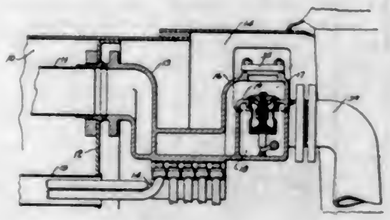
2. In a bottle capper, a frame of concave-convex cross-section having an upright portion with a tubular part and parallel side portions extending therefrom, a notched bar

secured between said side portions, means for holding the frame in an upright position, a rider slidable on the upright portion of the frame over the notched bar and



having a tubular portion fitting the first-mentioned tubular portion, a lever pivoted on the rider and having a notched segment engaging the notched bar, and a capping head on the rider.

1,689,299. THROTTLE VALVE. CHARLES RINGEL, North Hawthorne, N. J., assignor to the Superheater Company, New York, N. Y. Filed Dec. 16, 1926. Serial No. 155,285. 2 Claims. (Cl. 277—37.)



1. A balanced valve unit comprising a cylindrical valve cage having an open end forming a valve seat, a plurality of side wall ports and a closed end having a central opening therein, a main valve adapted to engage said seat and having a hollow stem terminating in a piston engaging said cage adjacent its closed end, a pilot valve adapted to seat in said main valve, a pilot valve stem having a fluted portion passing through said main valve stem and an extended portion passing through and closing said central opening, and a projection on said pilot valve stem adapted to engage said piston to lift the main valve.

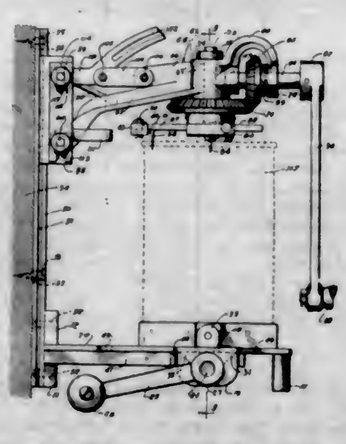
2. In a locomotive, an elongated header, a partition dividing it longitudinally into two chambers, a plurality of alined apertures in the partition, connections to deliver steam to one of said chambers, connections to take off steam from the other, a plurality of balanced valve units each constructed according to claim 1 and each fixed in one of said apertures, access means in the chamber wall opposite each unit through which it can be inserted and removed, the extended portions of the pilot valve stems being in alinement, a shaft in proximity to and parallel to said extended portions, a series of cams on said shaft and adapted to engage said portions and to actuate the valves when the shaft rotates.

1,689,300. TRACK PAVEMENT. HOMER L. ROGERS, Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Feb. 18, 1927. Serial No. 169,343. 19 Claims. (Cl. 238—8.)



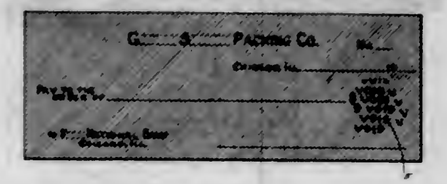
1. A track pavement composed of a rail, ties for said rail, a rail filler in said rail, a traffic surface composed of preformed slabs of bituminous material and a filler, supported on said ties adjacent to said filler.

1,689,301. CAN OPENER. ANDREW RUCKMAN, Chicago, Ill. Filed Jan. 22, 1927. Serial No. 162,914. 15 Claims. (Cl. 30—3.)



1. In a can opener, the combination of a supporting base having an upright standard, with means to retain a can in fixed position on said base, a frame adjustably mounted on said standard, a bearing movably mounted on said frame, a measuring stop on said frame, and means for cutting out the top of a can mounted in said bearing.

1,689,302. SAFETY PAPER. BURGESS W. SMITH, Rochester, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 6, 1924. Serial No. 697,258. 5 Claims. (Cl. 283—8.)



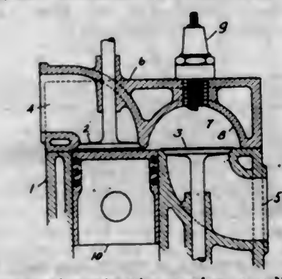
1. A safety paper having an inherently warning character printed thereon in ink of an indelible character adapted to have its color conspicuously altered by reaction with chemical eradicators, and having additional matter adapted to camouflage said warning character printed on said paper in indelible ink to obscure said warning character until the latter is rendered conspicuous by the application of said eradicators.

1,689,303. LEAF SPRING. FRANCIS J. SMITH, Gary, Ind. Filed June 14, 1926. Serial No. 116,034. 1 Claim. (Cl. 267—47.)



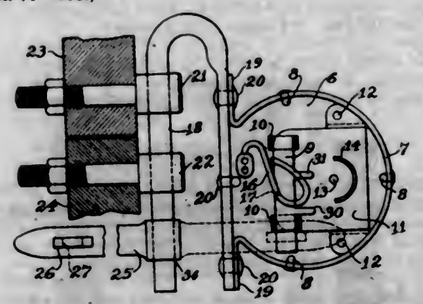
A suspension spring comprising a group of graduated, flat leaves, arranged to be loaded from beneath and a heavy, main leaf, whose normal shape when not carrying a load, approximates the shape of the rest of the spring after a load has been applied thereto.

1,689,304. INTERNAL-COMBUSTION-ENGINE CYLINDER HEAD. JOHN REGINALD CRISPIN SMITH, Victoria, British Columbia, Canada. Filed Apr. 29, 1927. Serial No. 185,293. 1 Claim. (Cl. 123—191.)



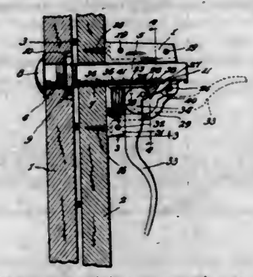
In an internal combustion engine, a cylinder, a piston operative in the cylinder, a dome-shaped combustion chamber offset from the plane of the cylinder, said combustion chamber including a base substantially in line with the upper end of the cylinder and a curved upper wall which extends to and in part inwardly overlies the wall of the cylinder, whereby to provide a communication between the cylinder and combustion chamber opening directly into said chamber, an inlet gas passage leading to the cylinder, an inlet valve controlling the passage and directly overlying the cylinder, said inlet valve having a diameter greater than half the diameter of the cylinder, an exhaust valve in the base of the combustion chamber having a diameter greater than half the diameter of the cylinder, the communication between the combustion chamber and cylinder being less than half the transverse sectional area of the cylinder to give turbulence to the firing charge, and a spark plug arranged in the dome of the combustion chamber.

1,689,305. PADLOCK. SALVATORE SPANO, Ensley, Ala. Filed Mar. 19, 1927. Serial No. 176,787. 5 Claims. (Cl. 70—108.)



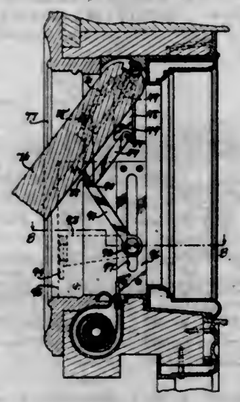
1. A padlock comprising a lock casing rigidly mounted on a U-shaped shackle, in combination with a lock arm having means to detachably mount it pivotally on the shackle, and a bolt in the casing and engaging the lock arm to secure the arm in locked position on the shackle, the shackle being adapted to be inserted through elements secured to the several parts to be locked.

1,689,306. WIRE-STRETCHER CLAMP. JOHN B. STEELE, Boone, N. C. Filed July 7, 1926. Serial No. 120,998. 6 Claims. (Cl. 254—83.)



1. A wire clamp comprising companion sections, a pin rigidly carried by one section and passed through an opening in the other section to slidably connect the sections, said pin being provided with longitudinally extending rack teeth, a housing secured against the outer face of the second section and formed with a barrel slidably receiving said pin and a chamber adjacent said barrel communicating therewith, said chamber having a slot formed in its wall, a lever extending into said chamber through said slot, a head at the inner end of said lever formed with an arcuate peripheral face and rotated in the chamber when the lever is moved, a pawl pivotally connected with said head, a spring in said chamber engaging said pawl to move the pawl into engagement with the rack teeth of said pin when the head is rotated in one direction, and spring means in said chamber bearing against said head to frictionally resist rotation thereof.

1,689,307. TRANSOM-OPERATING MEANS. HARRY B. STEIN, Chicago, Ill. Original application filed June 30, 1927, Serial No. 202,632. Divided and this application filed Oct. 13, 1927. Serial No. 225,862. 8 Claims. (Cl. 268—111.)

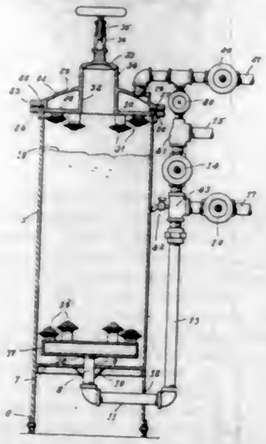


3. Mechanism for swingably mounting and operating a sash, comprising combined hinge plates and toggle links pivotally and frictionally connected together and to said plates placed at the side edge of the sash-operating means including a slidable handle and members slidable therewith, and a swingable link connected with one end to said links and with the other end to said slidable members.

1,689,308. HAND-CONTROLLED WATER SOFTENER. CHARLES A. STICKNEY, Rockford, Ill., assignor to Stickney Hydraulic Co., Rockford, Ill., a Corporation of Illinois. Filed Apr. 18, 1927. Serial No. 184,520. 1 Claim. (Cl. 210—24.)

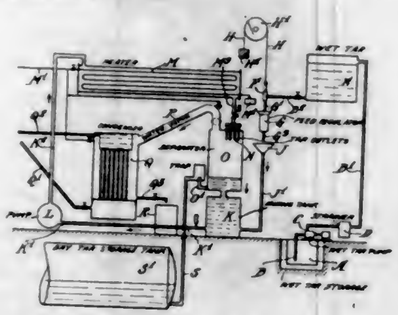
In a tank adapted for use as a water softener, a closure for one end of said tank, and means for detach-

ably securing said closure to said tank whereby the tank proper on the one hand and the closure on the other are separable units, said closure being preferably in the form of a hollow casting providing an inner wall and an outer wall in spaced relation, the inner wall serving as a strainer wall permitting the passage of fluid therethrough but preventing the exit of material from said



tank while the outer wall has means connected therewith providing fluid communication with said tank, and an integrally cast tubular neck connecting the outer wall with the inner wall and opening through both walls to afford direct communication from the outside of the tank with the inside thereof for the purpose described, and a closure for said neck arranged to be opened when desired.

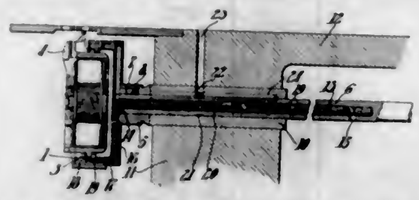
1,689,309. METHOD AND APPARATUS FOR DEHYDRATING TAR. ARTHUR W. WARNER, Media, Pa. Filed June 12, 1924. Serial No. 719,655. 8 Claims. (Cl. 196—5.)



1. In the operation of a dehydrating apparatus for liquid comprising a heater, a separator into which the heater delivers the heated liquid, a conduit leading from the separator to the heater and a circulating pump located in said conduit, the method of operating the same for the dehydration of fluid mixtures of liquid mixed with water which consists in circulating a comparatively dehydrated mixture of the liquid through the apparatus mixing with said dehydrated liquid as it passes from the separator and before it reaches the pump, a limited amount of the liquid to be dehydrated so as to reduce the temperature of the mixture below a point at which frothing will occur in the pump, raising the temperature of the mixture in the heater to a point at which the water in the mixture passes freely into vapor form, drawing off separated water vapor from the separator and drawing off from the mixture after separation of water and before the addition of fresh liquid to be dehydrated a quantity of the dehydrated liquid substantially equal to the amount of the liquid added in admixture with water.

3. Apparatus for dehydrating fluid mixtures and material mixed with water, comprising in combination a circuit including a separator, a heater with a conduit opening into the top of the separator, a mixing tank located below and connected with the separator, a conduit connecting the mixing tank with the heater and a pump in said last mentioned conduit, means for feeding a mixture to be dehydrated into the mixing tank, means for drawing off water vapor from the separator and means for drawing off dehydrated material from the separator.

1,689,310. LUBRICATING MEANS FOR SEWING MACHINES. MAX L. WATERMAN, Fairfield, and GEORGE A. FLECKENSTEIN, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 23, 1926. Serial No. 104,027. 5 Claims. (Cl. 112—256.)



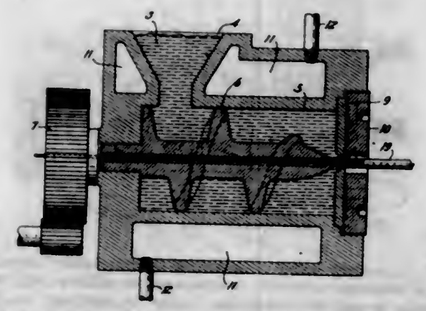
1. In a sewing machine, a rotary loop-taker body provided with a substantially radial bore, a bobbin-case raceway in said body, a duct relatively wide with respect to said radial bore connecting the bore with said raceway, and lubricant-conducting wicking compressed in said bore extending through said duct to the raceway.

1,689,311. INSULATED WIRE. EDMUND B. WHEELER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 9, 1924. Serial No. 742,498. 6 Claims. (Cl. 173—264.)



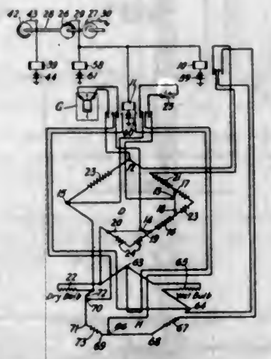
1. Means for flame-proofing a conductor comprising a coating of finely-divided selenium and cellulose acetate.

1,689,312. METHOD OF INSULATING CONDUCTORS. ROBERT R. WILLIAMS, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 2, 1924. Serial No. 703,660. 8 Claims. (Cl. 18—59.)



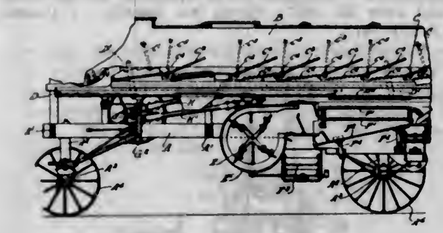
1. The method of insulating a conductor which consists in forming thereabout a contiguous and continuous single layer of prevulcanized hard rubber.

1,689,313. DIRECT-HUMIDITY RECORDER. ERNEST B. WOOD, Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 18, 1926. Serial No. 95,572. 4 Claims. (Cl. 234—1.5.)



1. A method of indicating values of a quantity, which is a function of two variables, which comprises balancing a Wheatstone bridge in which two of the arms have resistances proportional to the two variables, and the other two arms have resistances depending upon the resistance of one of said first mentioned arms.

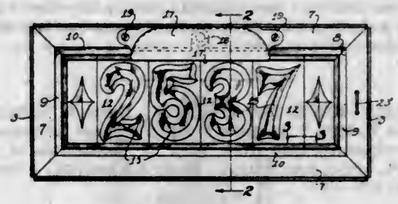
1,689,314. THRASHING MACHINE. WAYNE H. WORTHINGTON, Battle Creek, Mich., assignor to Advance-Rumely Company, La Porte, Ind., a Corporation of Indiana. Filed Jan. 25, 1926. Serial No. 83,478. 15 Claims. (Cl. 130—25.)



1. In combination in a machine a plurality of reciprocating parts the length of travel of which differs one from another and means for driving them in balanced relation, whereby they all reverse their direction of movement at the same time.

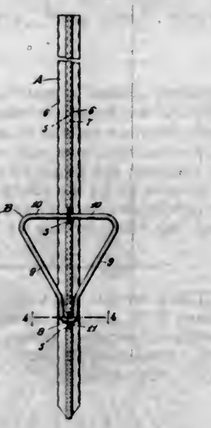
1,689,315. ILLUMINATED HOUSE-NUMBER DEVICE. RALPH C. YAGER, Oakland, Calif., assignor to Yager Sheet Metal Co., Oakland, Calif., a Copartnership consisting of Isabelle Yager, George L. Yager, and Ralph C. Yager. Filed May 21, 1928. Serial No. 279,436. 1 Claim. (Cl. 40—130.)

A device for the described purpose comprising a housing having an open front and a stop wall therein, an open frame removably positioned within the housing through its open front, its insertion thereinto being limited by said stop wall, the top and bottom edges of said frame opening being bent to provide opposing open ended number plate securing grooves, a plurality of detachably interlocked number plates slidably positioned endwise within said grooves with the faces of said plates exposed through the frame opening, a deflecting hood carried by the frame, an electric lamp beneath the hood, said hood having an



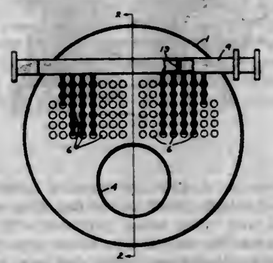
open bottom through which opening the light rays from said lamp are directed upon the faces of said number plates.

1,689,316. FENCE-POST ANCHOR. MARTIN E. ANDERSON, De Kalb, Ill. Filed Mar. 20, 1926. Serial No. 96,337. 3 Claims. (Cl. 189—29.)



1. The combination with a post having a hole therein, of an anchor therefor projecting laterally from the post at opposite sides thereof comprising a triangular member of resilient material having its apex lowermost and threaded through said hole, the upper base portion of said triangular member being split transversely to adapt it to be held in position by frictional engagement with the post.

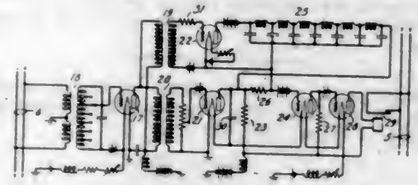
1,689,317. SUPERHEATER. JOHN A. BARNES, Chappaqua, N. Y., assignor to The Superheater Company, New York, N. Y. Filed Nov. 11, 1925. Serial No. 68,406. 2 Claims. (Cl. 122—462.)



1. In apparatus of the class described, the combination of a superheater inlet header; an outlet header; tubular superheater elements the two ends of each of which are se-

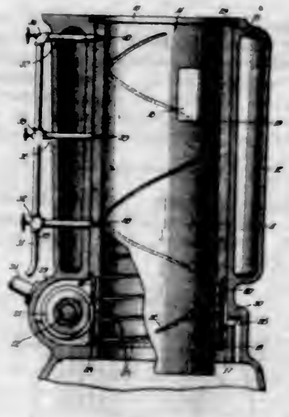
cured to the two headers respectively; the outlet header having two outlet connections; and a partition in the outlet header between the two outlet connections and in such position that some of the elements deliver steam to one side of it and the remaining ones to the other; there being a duct adapted to carry steam from one side of the partition to the other.

1,689,318. REPEATER CIRCUITS. BJÖRN G. BJÖRNSON, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 6, 1927. Serial No. 196,763. 6 Claims. (Cl. 178—44.)



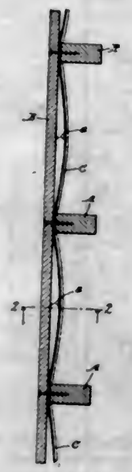
1. In a signaling system, a path for wave impulses of short duration and for relatively constant waves, branch paths connected thereto, a rectifier in each of said branches, an amplifier, a connection from each of said paths to the input of said amplifier, and means in one of said branches whereby for constant waves the effects of said branches on said amplifier substantially annul each other, while for the wave impulses the effect of one of said branches predominates.

1,689,319. LUBRICATING MEANS. CLARENCE E. BONNER, New York, N. Y., assignor, by mesne assignments, to Bonner-Charter Corporation, Dover, Del., a Corporation of Delaware. Filed Apr. 13, 1923. Serial No. 631,754. 4 Claims. (Cl. 123—80.)



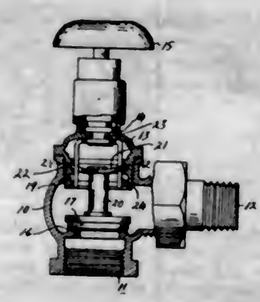
1. In an internal combustion engine a cylinder, a rotary sleeve valve enveloping and closely engaging said cylinder, said cylinder and valve being provided with cooperating grooves to cause the distribution of oil over the engaging surface of said cylinder and valve and means providing a plurality of oil feed passageways positioned to deliver oil to said cylinder at regions spaced longitudinally of said cylinder.

1,689,320. BUILDING AND METHOD OF CONSTRUCTION. GEORGE E. BRADBURY, Chicago, Ill. Filed Mar. 25, 1926. Serial No. 97,166. 4 Claims. (Cl. 20—4.)



2. A building formed of a framework, an outer sheathing and an inner sheathing including in itself dead air spaces and being throughout the major portion of its area inwardly spaced away from such outer sheathing, such inner sheathing being in contact with the outer sheathing throughout a portion of its area.

1,689,321. VALVE. FRED BRITP, Detroit, Mich., assignor, by mesne assignments, to Bohn Aluminum & Brass Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 22, 1927. Serial No. 200,673. 7 Claims. (Cl. 251—47.)

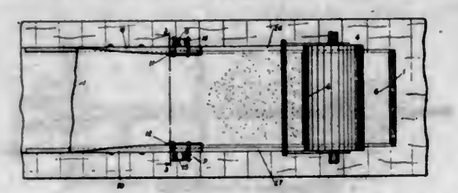


1. In a valve structure, a valve body formed with a spiral groove, a valve, a disk-like spiral element secured to said valve and provided with slots, and a rotatable yoke engaging said slots for rotating said spiral element through said groove.

1,689,322. APPARATUS FOR MAKING PLASTER WALL BOARD. HARRY E. BROOKBY, Evanston, Ill., and CARL ABSMEIER, Grand Rapids, Mich., assignors to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1926. Serial No. 91,297. 7 Claims. (Cl. 154—1.)

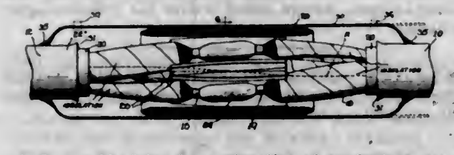
1. In plaster wallboard apparatus, means for advancing a continuous cover sheet, edge forming devices for engaging the margins only of the cover sheet as it advances, said

edging devices comprising means for first folding over the margin of the sheet inwardly, contact plates engaging the folded edge on the inside and outside and continuously



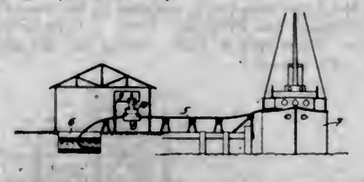
crimping and reducing the height of the folded edge as it passes along, and means for maintaining the folded edge after it is formed.

1,689,323. CABLE JOINT. NELSON E. BUCK, DENNEY W. ROPER, and ALEXANDER P. THOMS, Chicago, Ill. Filed Dec. 16, 1921. Serial No. 522,761. 8 Claims. (Cl. 173—168.)



4. In a cable joint for a plurality of conductors, means for splicing the ends of the conductors together, said separators each comprising a rigid section of formed insulation having curved longitudinal edges, an insulating sleeve encircling said separators, said separators being loosely disposed within said sleeve with their edges making line contact with the inner periphery of the sleeve, said separators being positioned so as to make substantially only point contact with each other, and a filling substance for covering said separators and the spliced conductor ends, said point contact aiding in the elimination of voids and gas pockets between the separators thereby preventing destruction of the insulation by ionization of trapped gases.

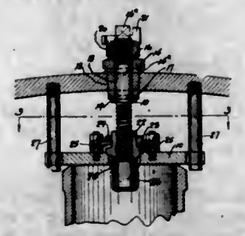
1,689,324. MANUFACTURE OF CONTINUOUSLY-LOADED ELECTRICAL CONDUCTORS. OLIVER E. BUCKLEY, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 31, 1924. Serial No. 689,620. 9 Claims. (Cl. 178—45.)



1. In a method of manufacturing a continuously loaded conductor, the step of improving the magnetic properties of said loaded conductor throughout its length by passing it through a magnetizing coil.

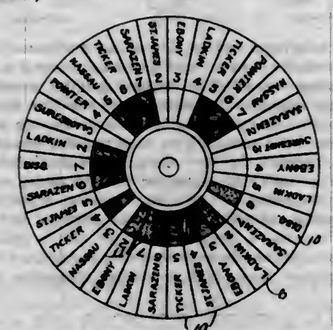
1,689,325. LOCOMOTIVE STOP VALVE. WILLIAM CASEY, Kingston, Ontario, Canada. Filed July 21, 1927. Serial No. 207,366. 5 Claims. (Cl. 277—35.)

5. In a locomotive, the combination of a steam dome comprising a dome sheet, a dry-pipe extending into the steam dome and having its end shaped to form a valve seat, a disc-shaped valve adapted to engage said seat, a plug in the dome sheet, a rod extending through the plug and adapted to operate the valve, a collar on said rod adapted to seat against the inner end of the plug to form a steam-tight joint, said rod having a screw thread on its outer end, a nut on said end, the main body portion of said valve having a perforation alined with said rod, the outer end of the perforation having a seat, a screw-threaded element forming a part of the valve and having a corresponding seat to engage the seat at the perforation, a second element secured to said main body portion of the valve and adapted to be engaged by the first element to lift the valve, said rod having a threaded portion to engage the screw-



threaded element, and means to keep the valve from rotating, whereby when the valve is open the collar may be pulled against the plug by means of the nut, and when the valve is closed the collar may be forced against the plug and the first-named element against the seat at the perforation and the valve against its seat by means of a rotation of the rod.

1,689,326. GAME. JAMES CRAIGIE, Chicago, Ill. Filed Dec. 23, 1925. Serial No. 77,168. 1 Claim. (Cl. 273—135.)

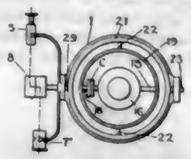


A game comprising a chart and a spinning wheel, said wheel having a plurality of sectors marked on its sides, every sector including a name, a number and a color, the periphery of said wheel having a plurality of spaces therein co-incident with said sectors, every space indicating the name and the number appearing on its sector and the color of the next following sector, said chart having a plurality of sectors thereon, every sector being divided into a plurality of parts, every sector containing a name and the parts thereof a number, a ring encircling said sectors with said names therein opposite said sectors, the chart outwardly of the ring having various colors thereon with indicia on said colored parts, a central circle divided into a plurality of numbered sectors, said wheel being arranged within a casing, said casing having apertures through which the indicia on said wheel may be observed, and the chart having corresponding indicia to indicate the total points won by a player on a spin of said wheel.

1,689,327. FIRE-CONTROL INSTRUMENT. GEORGE B. CROUSE, Woodcliff, N. J., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Feb. 7, 1925. Serial No. 7,665. 33 Claims. (Cl. 89—41.)

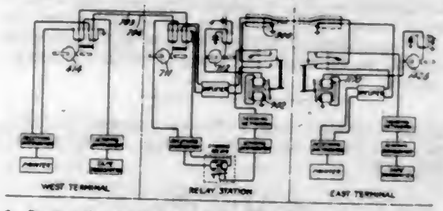
1. In a fire-control instrument for use on a body subject to oscillation, a sighting device adapted to have its line of sight disposed angularly to the axis of oscillation of the body and comprising an optical part constructed to oscillate with the body and an optical part free from such constraint,

and means stabilizing the second optical part about an axis perpendicular to the line of sight including a member stabilized about intersecting axes, one of which is parallel to



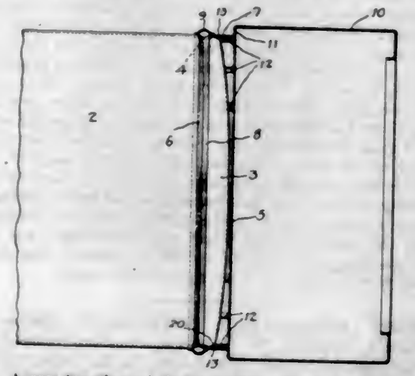
the line of sight and another member stabilized by said first member about an axis perpendicular to said line of sight and connected to the second optical part.

1,689,328. SUBMARINE TELEGRAPH SYSTEM. AUSTEN M. CURTIS, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 30, 1926. Serial No. 119,537. 11 Claims. (Cl. 178—63.)



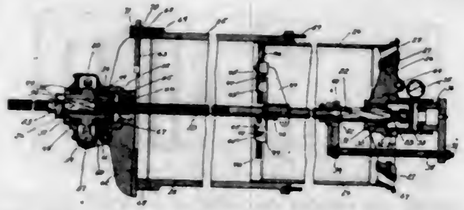
1. In a telegraph system, a sending distributor having alternate impulse sending and grounding elements, transmitting means connected to impulse sending elements for transmitting impulses of positive and negative polarities, a long cable, a sending shaping network having one terminal connected alternately to said impulse sending and grounding elements by the operation of said distributor and the other terminal connected to said cable, receiving apparatus connected to the other terminal of said cable, said apparatus comprising means for shaping and amplifying the signals, a telegraph printer and a distributor operating synchronously with said first distributor for supplying impulses from said receiving apparatus to said printer.

1,689,329. END STRUCTURE FOR TANKS. AUGUSTINE DAVIS, Jr., Cincinnati, Ohio. Filed Jan. 22, 1927. Serial No. 162,704. 10 Claims. (Cl. 220—1.)



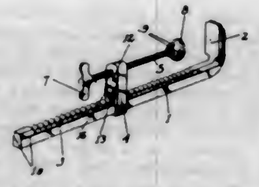
1. A construction of the character described comprising a tank including a shell and an end head having a peripheral flange, and a box welded to the end of the tank, characterized by said head being disposed with its head wall outward and its flange inward, the flange being set into the tank shell and welded thereto, and a connection between the box and the tank being telescoped over the end of the tank and welded thereto.

1,689,330. BUSHING PULLER. BERNHARD E. DELLE, Brooklyn, N. Y. Filed July 5, 1927. Serial No. 203,293. 10 Claims. (Cl. 29—88.2.)



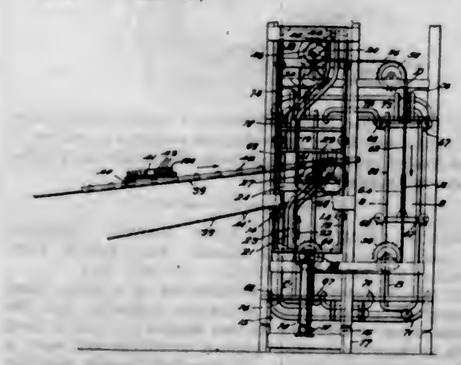
1. In a bushing-puller, the combination with a cylinder-engaging fixture and bushing-engaging fixture, of an externally-threaded pull-rod, an internally-threaded member carried by one of the said fixtures and engaging the threads of the said pull-rod, and reduction-gearing for causing relative rotation between the said pull-rod and member, whereby the pull-rod may be placed under tension and the said bushing-engaging fixture pulled toward the cylinder-engaging fixture.

1,689,331. QUICK-ADJUSTMENT CLAMP. ANGELO DISIBIO, Pittsburg, Calif. Filed Apr. 15, 1927. Serial No. 183,963. 1 Claim. (Cl. 144—303.)



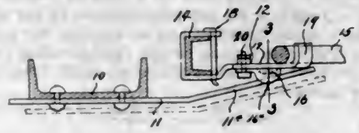
In a clamp, a bar, a block slidable therealong, a screw mounted in the block parallel to the bar, ratchet teeth along that face of the bar which is adjacent the screw, a pawl slidably enclosed within the block and normally engaging the teeth, said pawl being disposed at an angle to the bar and having a notch in one side thereof intermediate its ends, and a key turnably mounted in the block and having a radial tongue projecting into the notch.

1,689,332. TRAY-STACKING MACHINE. LESLIE B. EATON, San Francisco, Calif., assignor to National Fibre-Form Company, San Francisco, Calif., a Corporation of Delaware. Filed May 9, 1923. Serial No. 637,639. 4 Claims. (Cl. 214—6.)



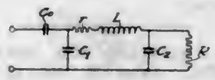
1. A means for operating the conveyors of a stacking machine comprising, a movable frame, an air cylinder for moving the frame, two cams on the frame, gear trains each having a follower for the corresponding cam, each gear train being connected to a conveyor.

1,689,333. ADJUSTABLE THIRD OR FOURTH POINT SUPPORT FOR BRAKE BEAMS. HERBERT W. EKHOLM, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1927. Serial No. 186,283. 15 Claims. (Cl. 188—213.)



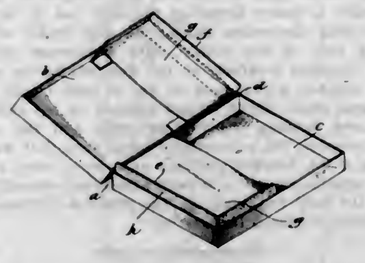
1. An auxiliary support for brake beams comprising a member adapted to be carried by a brake beam part, and a sliding chair adapted to be supported on an inclined track member and adjustable on said member in a substantially horizontal plane to vary the distance between said brake beam and said inclined track member.

1,689,334. ARTIFICIAL LINE. RICHARD FELDTKELLER, Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Berlin, Germany, a Company of Germany. Filed Mar. 31, 1926, Serial No. 98,642, and in Germany Dec. 9, 1924. 2 Claims. (Cl. 178—45.)



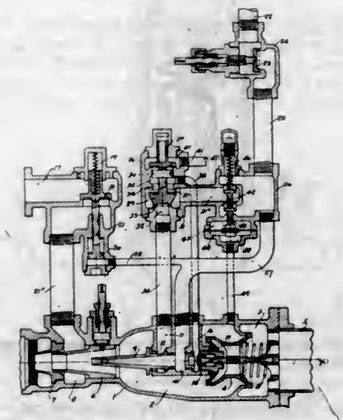
1. An impedance network for simulating the impedance of the long coil-loaded line, comprising an unsymmetrical H type net-work corresponding in form to one section of the line to be simulated, and having approximately the same nominal characteristic impedance, but being proportioned in accordance with a higher cut-off frequency than that of the line, and an ohmic resistance connected to two terminals of said net-work, said ohmic resistance having a value substantially equal to the nominal characteristic impedance of the line.

1,689,335. CIGARETTE CONTAINER. ELISHA M. FRIEDMAN, Brooklyn, N. Y. Filed Apr. 9, 1926. Serial No. 100,797. 1 Claim. (Cl. 229—43.)



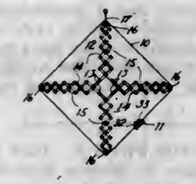
A cigarette container comprising two companion sections, a positioning flange secured to one of said sections, and a roughened outer surface on the flange which contacts with the other sections whereby the container will be more effectively retained in a closed position.

1,689,336. EXHAUST-STEAM INJECTOR. JOSEPH F. GRIFFIN, Teaneck, N. J., assignor to The Superheater Company, New York, N. Y. Filed Mar. 3, 1927. Serial No. 172,396. 7 Claims. (Cl. 103—265.)



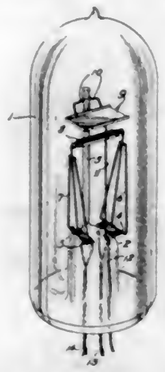
1. The combination with an exhaust steam injector having a plurality of conduits connected therewith for supplying water, exhaust steam from an engine, supplementary live steam and auxiliary live steam to said injector, of means for automatically controlling the admission of auxiliary live steam to said injector, said means comprising a valve for closing the auxiliary live steam conduit, and fluid pressure actuated means in communication with the interior of said injector for controlling said valve in accordance with the working conditions within said injector.

1,689,337. ANTENNA. ARTHUR HADDOCK, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 22, 1923. Serial No. 664,178. 1 Claim. (Cl. 250—33.)



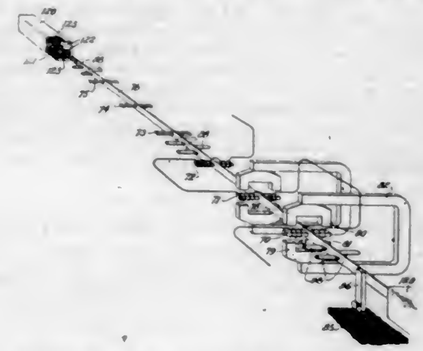
A loop antenna comprising a flat multiple conductor, comprising a plurality of equally spaced conducting strands parallel to a single plane interwoven with a fabric of insulating material, mounted upon a plurality of adjustable arms, and a connecting block of two sections having conducting pieces on each section connected to the ends of said conducting strands and so arranged that when the two sections of said connecting block are joined together a continuous solenoidal winding results with the individual strands so cross-connected that the distributed capacity of the antenna is reduced to a minimum.

1,689,338. ELECTRON-DISCHARGE DEVICE. JAMES E. HARRIS, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1921. Serial No. 516,297. 5 Claims. (Cl. 250—27.5.)



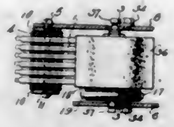
1. In an electron discharge device, a cathode composed of mischmetal.

1,689,339. ENERGY-TRANSLATION SYSTEM. HENRY C. HARRISON, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 15, 1923. Serial No. 680,816. 8 Claims. (Cl. 178—44.)



1. In combination, an electric wave filter of a plurality of consecutive sections and a mechanical wave filter of a plurality of consecutive sections, each of a plurality of the sections of said electric filter being coupled to a section of said mechanical filter and arranged to transfer energy in the same direction between said coupled sections.

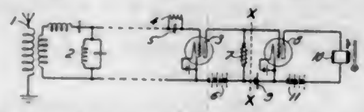
1,689,340. SELECTOR SWITCH. JOHN F. HEARN, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1923. Serial No. 674,637. 4 Claims. (Cl. 175—306.)



1. A method of constructing a terminal bank for a rotary switch which consists, in assembling a group of insulated terminals in a layer in the general form of the arc of a circle to form a unit, of securing a plurality of the units together to form a bank, of assembling a grinding unit in the place of the rotatable switch member, and of rotating the grinding unit for grinding the ends of the terminals thus assembled to produce a plurality of contacting terminal ends in the same cylindrical surface.

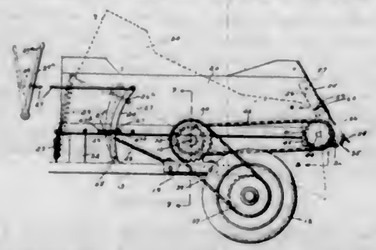
3. Method of re-aligning the contacting surfaces of the terminals of a terminal bank of a selector switch which consists in replacing the rotatable member of the selector switch by a grinding wheel and of rotating the grinding wheel by a suitable driving means, thus grinding the contacting surfaces of the terminals to align them all in the same cylindrical plane.

1,689,341. HIGHLY-SELECTIVE SIGNAL RECEPTION. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1923. Serial No. 682,857. 7 Claims. (Cl. 250—8.)



6. The method of receiving a signal element which consists in producing a current wave of amplitude varying approximately as the time summation of the energy of the waves comprising the signal element and producing under the control of said wave, a wave of instantaneous amplitudes proportional to instantaneous rates of change of said current waves.

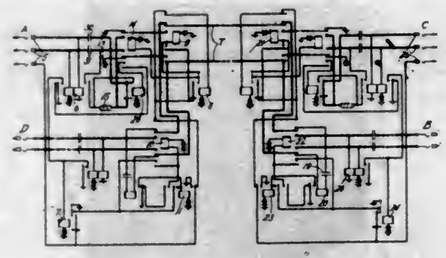
1,689,342. MACHINE FOR SPREADING SAND, GRAVEL, ETC. ISAAC E. HILLER, Marion, Mass. Original application filed May 18, 1925, Serial No. 110,041. Divided and this application filed Dec. 14, 1926. Serial No. 154,675. 4 Claims. (Cl. 275—2.)



1. A spreading machine comprising a motor vehicle, a load-carrying body, means connecting the body with the vehicle and including a shaft fixed to the chassis, and bearing blocks fixed to the body and adapted to turn on the shaft, a rotary feeder at the rear end of the body, and driving mechanism connecting said feeder with the driving axle of the vehicle, said mechanism including clutch members rotatable on the fixed shaft, one member being slidable, a cam face on one of said blocks, and a cam-faced sleeve keyed to and slidable on the shaft, and interposed between the bearing block and the slidable clutch member, the arrangement being such that when the body is tilted, the bearing-block and sleeve exert pressure on the slidable member and render the clutch operative, and when the body is horizontal, the pressure is relaxed and the clutch rendered inoperative.

1,689,343. TELEPHONE SYSTEM. EDWARD E. HINRICHSEN, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 26, 1927. Serial No. 194,323. 7 Claims. (Cl. 179—18.)

1. In a telephone system, a two-way trunk, means for automatically seizing said trunk at either end, means for automatically extending said trunk at either end, means responsive to the seizure of the trunk at one end for transmitting a current impulse to the opposite end,



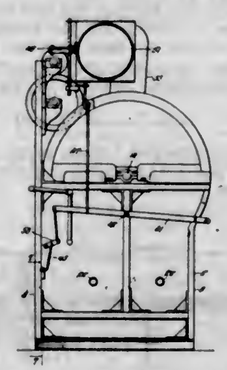
means at said opposite end responsive to said current impulse for disabling the trunk seizing means and responsive to the cessation of said impulse for connecting the trunk extending means to the trunk at said end.

1,689,344. CAN OPENING AND SEALING DEVICE. WILLIAM H. HUNT, National City, Calif. Filed Aug. 30, 1924. Serial No. 735,078. 8 Claims. (Cl. 220—51.)



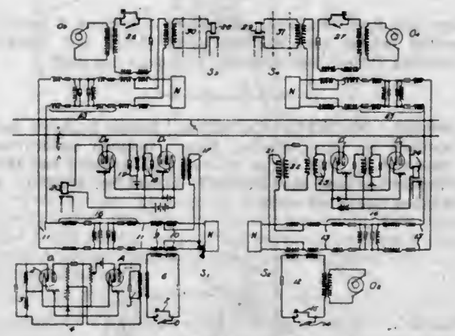
1. In a can opening and sealing device composed of a single piece of a comparatively narrow strip of metal, a connecting portion horizontally flat relatively to the can when used, provided with flat lugs one at each end thereof turned downwardly flatwise over its whole width and at right angles to said connecting portion, said lugs being reduced, forming shoulders, and then extending straight and provided with cutting portions at their ends.

1,689,345. CLOTHES DRIER. CARL W. KELLMAN, Chicago, Ill. Filed Oct. 10, 1925. Serial No. 61,657. 16 Claims. (Cl. 34—5.)



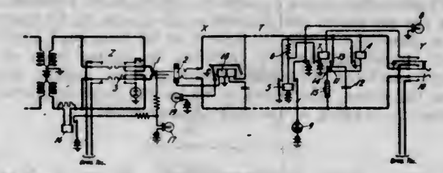
1. A clothes drier comprising in combination a casing having a plurality of openings therein, a clothes container in said casing, means for establishing air currents in a definite direction for drying the clothes in said container, means for first heating said air currents, and damper mechanism cooperating with said openings for changing the direction of said air currents whereby cold air is admitted into said casing to cool the clothes and to carry heat from said heating means away from said clothes.

1,689,346. METHOD AND SYSTEM OF CARRIER-WAVE TELEGRAPHY. BURTON W. KENDALL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 31, 1919. Serial No. 334,682. 7 Claims. (Cl. 178—51.)



1. In a multiplex system, stations connected by a line, a network for substantially balancing said line for signal frequencies supplied thereto, means for transmitting current waves of different constant frequencies from each of said stations to said line, at each of said stations a plurality of signal receiving means each supplied with a wave outgoing from said station due to unbalance, and means for selecting combinations of two of said waves to actuate each of said receivers.

1,689,347. TELEPHONE SYSTEM. FRANKLIN A. KORN, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 29, 1927. Serial No. 202,250. 7 Claims. (Cl. 179—41.)

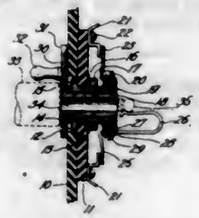


1. In a telephone system a line, a relay and a condenser in series connected in bridge of said line, switching means adapted when operated to open said bridge and when released to momentarily connect said condenser in bridge of said line to the exclusion of said relay.

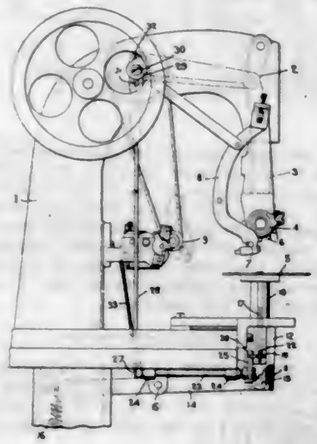
1,689,348. COMBINED JACK AND SELECTING SWITCH. JOHN J. KUHN, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1924. Serial No. 758,528. 5 Claims. (Cl. 200—51.)

1. A combined jack and selecting switch comprising a panel having an aperture therein, terminals arranged on

said panel around said aperture, a metallic sleeve rotatably mounted in said aperture, a number of brushes arranged to rotate with said sleeve and to successively engage said terminals when said sleeve is rotated, a contact located behind said aperture, said sleeve and contact providing circuit terminals for a cooperating plug.



1,689,349. MARKING MACHINE. ELMER L. LANG and GEORGE H. LANG, Boston, Mass. Original application filed Oct. 9, 1922, Serial No. 593,416. Divided and this application filed Jan. 15, 1927. Serial No. 161,317. 4 Claims. (Cl. 101—316.)



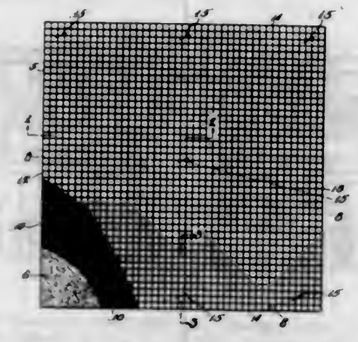
1. In a marking machine, the combination with a yieldingly-supported platen to receive the work, of a one-way lock for the platen which permits the platen at all times to be depressed to the full extent of its downward movement but which normally restrains the platen from upward movement, a printing head movable toward and from the platen, and means to render the lock inoperative during the making of the printed impression.

1,689,350. SHOE CONSTRUCTION. RALPH L. MARTEAU and GEORGE A. SCHROETER, Brooklyn, N. Y. Filed Dec. 28, 1925. Serial No. 78,034. 5 Claims. (Cl. 36—71.)



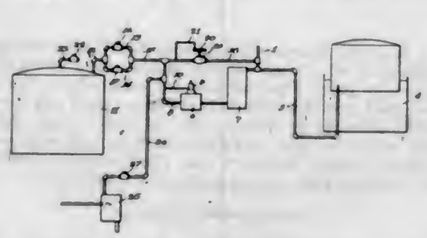
1. In an arch supporting member for a shoe, a heel portion secured to the shoe, a forward flap portion disposed under the arch of the foot, an extensible connecting piece between the heel and forward portions, and means insertible in the forward portion to support the anterior metatarsal arch of the foot.

1,689,351. ICE-SAVING PAD. FREDERICK C. MAUSSNER, Collingswood, N. J. Filed July 10, 1925. Serial No. 42,858. 2 Claims. (Cl. 62—31.)



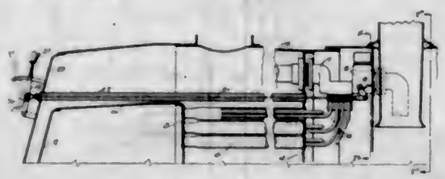
1. An ice saving pad adapted for separating ice from direct contact with the lining of a refrigerator comprising a filler of porous, non-absorbent hair, a covering of relatively heavy wire cloth embracing said filler, and a sheet of relatively finer wire cloth interposed between said filler and said heavier cloth for preventing the hair from adhering to the ice.

1,689,352. SYSTEM FOR GATHERING GAS FROM OIL TANKS, ETC., OF REFINERIES. HARRY R. MAXON, Muncie, Ind. Filed May 19, 1926. Serial No. 110,060. 2 Claims. (Cl. 220—85.)



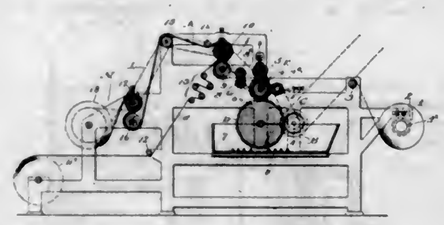
1. In a system of the class described, a gathering line, means for maintaining a slight superatmospheric pressure on the gathering line, a closed tank for containing oil, and connections between the line and tank including means permitting the passage of gas from the tank into the gathering line and means for permitting the passage of gas from the gathering line to the tank when the pressure in the tank drops below atmospheric but preventing such passage as long as atmospheric pressure is maintained in the tank.

1,689,353. LOCOMOTIVE. NEAL T. MCKEE, Bronxville, N. Y. Filed Dec. 1, 1926. Serial No. 151,938. 3 Claims. (Cl. 122—462.)



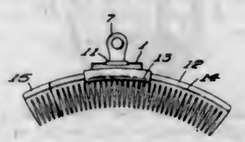
1. In a locomotive, a boiler having a forward flue sheet, a back head and a crown sheet, a smoke-box located forward of said sheet, a throttle located in said smoke-box, a tube connected to said flue sheet and said head and passing through the boiler above the level of said crown sheet, a throttle operating rod passing through said tube, and packing means adjacent the back head between said tube and said rod.

1,689,354. METHOD OF FORMING COMBINED PAPER AND FABRIC MATERIAL. JAMES R. MCKENNA, Cleveland, Ohio. Filed Mar. 11, 1925. Serial No. 14,647. 1 Claim. (Cl. 154—35.)



The method of uniting crimped or crinkled paper with woven fabric, which consists in providing a crimped or crinkled paper, stretching the same to temporarily remove the crimps and produce a smooth surface, applying an ahesive coating to the smooth surface of the paper, laying the coated paper against the fabric, relieving the paper of stretch to permit the crimps to reform, and subjecting the combined material to pressure to cause the crimps of the paper and the adhesive to become embedded in the meshes of the fabric.

1,689,355. HAIR-WAVING DEVICE. THERESA MCMILLAN, Chicago, Ill. Filed Jan. 27, 1928. Serial No. 249,895. 5 Claims. (Cl. 132—38.)



1. In a hair waving device, a spring clip, a bracket carried thereby, a comb fixedly carried by said spring clip, and a comb slidably carried by said bracket.

1,689,356. METHOD OF PRODUCING COMPLEX METAL ALCOHOLATES. HANS MEERWEIN, Konigsberg in Prussia, Germany, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed Nov. 1, 1926, Serial No. 145,711, and in Germany Nov. 12, 1925. 11 Claims. (Cl. 260—11.)

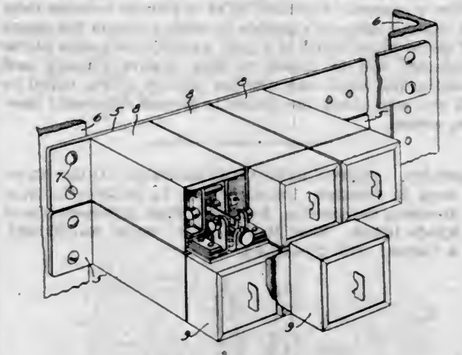
1. The process of producing readily soluble complex metal alcoholates, comprising causing the alcoholates of different metals to react with each other.

1,689,357. FOOD PRODUCT. IRVING S. MERRELL, Syracuse, N. Y., assignor, by mesne assignments, to Merrell-Soule Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 27, 1923. Serial No. 665,166. 8 Claims. (Cl. 99—11.)

4. As a new article of manufacture, a self-sustaining solid containing a compressed baked milk powder.

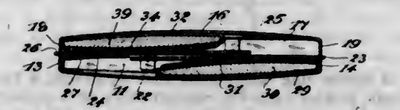
6. The process of producing a new article of manufacture comprising baking a molded milk powder to form a unitary self-sustaining article of manufacture.

1,689,358. MAGNETIC SHIELD. DANIEL D. MILLER, New York, N. Y., assignor, by mesne assignments, to Soule Company, Inc., New York, N. Y., a Corporation of of New York. Filed Jan. 22, 1925. Serial No. 3,917. 3 Claims. (Cl. 179—174.)



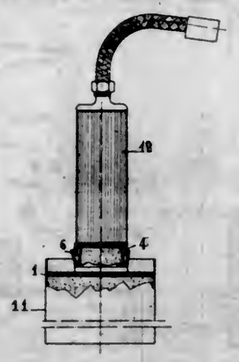
1. A magnetic shield for electrical apparatus comprising a cover portion composed of a material having a permeability higher than that of iron for low magnetizing forces and a cap portion cooperating therewith to form a dust-proof housing, said cap portion being composed of a non-magnetic material.

1,689,359. COMPACT CONTAINER. FELIX B. MILLER, Attleboro, Mass., assignor to Fillkwik Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1928. Serial No. 271,300. 6 Claims. (Cl. 132—83.)



1. In a compact container, in combination, a lower compartment; an upper compartment carried by and longitudinally slidable over the lower compartment, the open portions of the compartments facing each other; a hinged cover for each compartment having a reflecting surface and means limiting the slidable movement of the compartments.

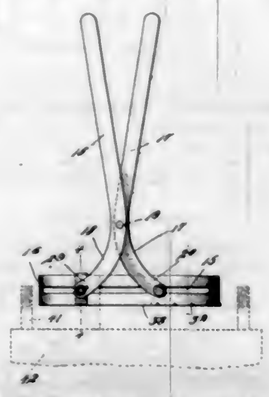
1,689,360. GREASE-GUN-FILLING DEVICE. ROBERT MONNOT, Clichy, France. Filed June 9, 1927, Serial No. 197,696, and in France July 20, 1926. 2 Claims. (Cl. 221—47.5.)



1. A grease gun filling device, comprising a piston adapted to rest upon the surface of the grease in an opened grease container and having a central opening of relatively large

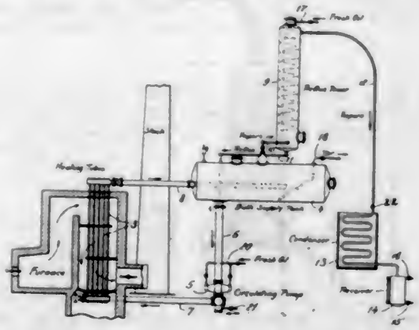
size formed through it; an upstanding inner metal ring fitted at its lower end in said opening and rigidly secured to the edge thereof; and an outer ring encircling and rigidly secured to the inner ring, the two rings having their mutually-adjacent inner surfaces inclined away from each other in opposite directions so as to provide between them an annular space of V-section to receive therein the mouth of the inverted barrel of a gun, whereby the grease in the container will be forced to pass upward through said opening and inner ring into the interior of the barrel to fill the same when the piston is pressed downward upon the grease.

1,689,361. PISTON-RING-COMPRESSING TOOL. CLARENCE B. PERKINS, Providence, R. I., assignor to Apco Mossberg Corporation, Attleboro, Mass., a Corporation of Rhode Island. Filed Mar. 8, 1928. Serial No. 260,067. 4 Claims. (Cl. 29—86.4.)



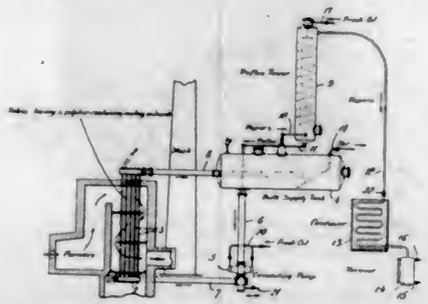
1. A piston ring compressing tool comprising a band of a length greater than the circumference of a piston it is intended to encircle to overlap a portion of itself a substantial distance and having a slot extending longitudinally thereof, a pair of handles pivoted together near one end, means extending through said slot and securing one end of one of said handles to one portion of said band, and means for adjustably securing the end of the other handle to another portion of said band.

1,689,362. ART OF CRACKING HYDROCARBONS. JOHN PERL, New York, N. Y., assignor to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Nov. 20, 1924. Serial No. 750,992. 3 Claims. (Cl. 196—133.)



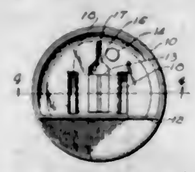
1. In a pressure still for cracking hydrocarbon oils, a tubular heater, connections adapted for circulating and recirculating a liquid body of oil in the still therethrough, and means for circulating heating gases externally about the tubular elements of the heater, the internal surface of the tubular heater elements having a tin-containing coating thereon.

1,689,363. ART OF CRACKING HYDROCARBON OILS. JOHN PERL, New York, N. Y., assignor to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Nov. 20, 1924. Serial No. 750,993. 14 Claims. (Cl. 196—47.)



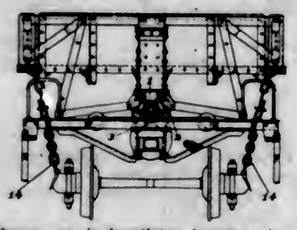
5. In cracking hydrocarbon oils by distillation under pressure, the improvement which comprises heating a liquid body of the oil to the cracking temperature by heat transferred thereto through an externally heated wall having an iron sulphide coating in contact with the oil.

1,689,364. PUZZLE. JAMES A. RADCLIFFE, Jersey City, N. J. Filed Mar. 20, 1928. Serial No. 263,085. 8 Claims. (Cl. 273—153.)



1. In a puzzle of the class described, a box having a compressible side, a sheet metal spring member supported therein and including a loop portion disposed against said side, and a ball normally free within the box and adapted to roll in under the loop when engaged and spread by a compressed movement of said side.

1,689,365. DUMP-CAR-BODY-TILTING BEARING. ALFRED C. SCHMOHL, Beaver Falls, and JOHN P. ANDERSON, Koppel, Pa., assignors to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 25, 1927. Serial No. 208,174. 6 Claims. (Cl. 105—264.)



1. In a dump car, body tilting bearings having central and eccentric bearing surfaces supporting a car body, independent pivots on an upper member, for each dumping or carrying position, bearing in suitably disposed coplanar sockets of a supporting member.

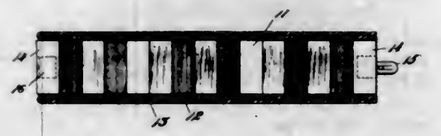
1,689,366. METAL MERCAPTO ACID ESTERS AND PROCESS OF MAKING SAME. WALTER SCHOELLER, Berlin-Westend, and HANS GEORG ALLARDT, Berlin-Reinickendorf-West, Germany, assignors to the Firm Schering-Kahlbaum A. G., Berlin, Germany. Filed Dec. 16, 1927, Serial No. 240,629, and in Germany Dec. 16, 1926. 6 Claims. (Cl. 260—11.)

1. As new products, metal mercapto acid esters having the formula—

$$Me(-S-X-O-Alc)_n,$$

wherein Me is a metal, X an organic acid radical and Alc an alcohol radical, while n indicates the valence of the metal.

1,689,367. CHAIN BAND. CARL SCHRAYSSHUEN and FRIEDRICH RENZ, Providence, R. I., assignors to Speidel Chain Co., Providence, R. I., a Firm composed of Frederic Speidel and Eugen Speidel, Pforzheim, Germany. Filed June 7, 1927. Serial No. 197,161. 7 Claims. (Cl. 63—4.)

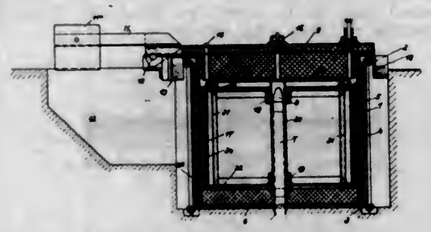


6. An ornamental chain for jeweler's use, embodying a series of thin plates having their edges which are transverse to the length of the chain adjacent to and free from each other, and flexible means attached to the ends of all of the plates between the edges thereof.

1,689,368. PRINTING INK. KARL STEPHAN, Berlin-Charlottenburg, Germany, assignor to the Firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed Apr. 14, 1927, Serial No. 183,912, and in Germany May 5, 1926. 4 Claims. (Cl. 134—36.)

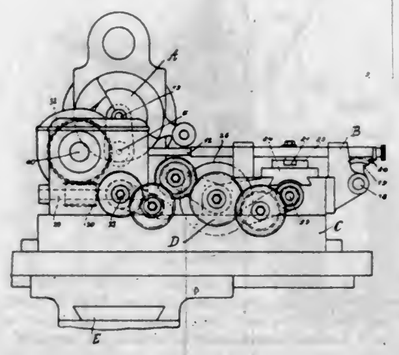
1. As a new composition of matter printing ink comprising manganese dioxide (MnO_2), 100 ccms. of which, when loosely heaped, do not weigh more than 100 grams.

1,689,369. ELECTRIC FURNACE FOR GLOWING METAL BANDS BY INDUCTION CURRENTS. MANUEL TAMA, Messingwerke, near Eberswalde, Germany. Filed Nov. 29, 1927, Serial No. 236,505, and in Germany Sept. 17, 1927. 17 Claims. (Cl. 266—1.5.)
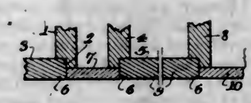


3. An electric furnace for annealing metal-strips by induction current, comprising a drum adapted to receive the metal-strip to be annealed and adapted to be coiled thereround; and a coil adapted to form one of the coils of a transformer and to generate the induction current, said metal-strip forming the other coil of the transformer.

1,689,370. MACHINE FOR GENERATING AND MARKING CAMS. KARL TESSKY, Esslingen, Germany. Filed June 9, 1925, Serial No. 35,898, and in Germany June 7, 1924. 2 Claims. (Cl. 90—15.)



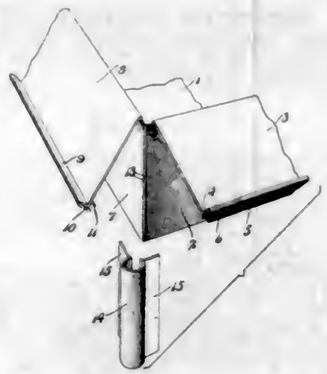
1. A machine for generating the faces of cams which cooperate with rollers on rocking levers, comprising a frame, a chuck on said frame for holding a blank, a tool support in the shape of a rocking lever of a length equal to that of the cam lever in a machine of which said cam-and-lever-unit will form part, said rocking lever being pivoted on said frame in a position with respect to said blank which corresponds to the relative position of the finished cam and the pivot of its cooperating rocking lever, a tool carried on said support in a position corresponding to the roller of said cooperating rocking lever, a carriage adapted to reciprocate on said frame, a slide bar supported on said carriage, and means for connecting said slide bar with said tool-supporting rocking lever so as to transmit the reciprocation of said carriage to said rocking lever at a ratio corresponding to the adjustment of said slide bar with respect to said carriage.

1,689,371. KITCHEN CABINET. EARL M. TRAMMELL, El Paso, Tex., assignor to El Paso Sash & Door Co., El Paso, Tex. Filed Dec. 2, 1927. Serial No. 237,215. 1 Claim. (Cl. 312—107.)



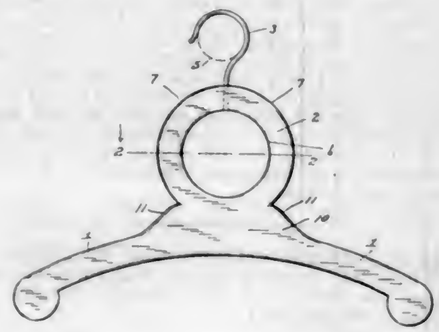
A kitchen cabinet having two units with adjacent side walls, each side wall having a right-angular cut-out in its front inner corner, a front member having its ends projecting into said cut-outs, the depth of the cut-outs being less than the thickness of said front member, a filler strip having its ends abutting the ends of the front members, its rear face abutting the ends of the side walls, and an integral shelf extending across both of said units.

1,689,372. DESK TRAY. PETER M. WEGE, Grand Rapids, Mich., assignor to Metal Office Furniture Co., Grand Rapids, Mich., a Corporation of Michigan. Filed Nov. 22, 1927. Serial No. 235,021. 5 Claims. (Cl. 220—75.)



1. A tray comprising, a bottom, vertical sides and ends extending upwardly from said bottom, each of said sides and ends comprising an inner section and an outer section connected to said inner section and lying parallel therewith, said outer section at its lower end having an inwardly extending portion lying against the under side of said bottom and secured thereto.

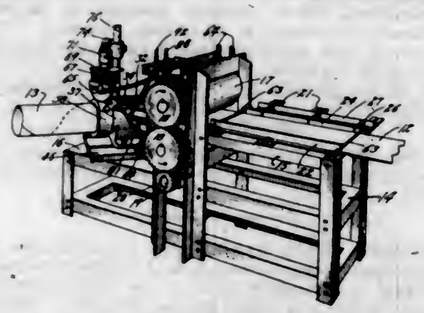
1,689,373. GARMENT HANGER. BENJAMIN WEINBERG, Troy, N. Y. Filed Aug. 27, 1926. Serial No. 131,837. 1 Claim. (Cl. 223—64.)



A garment hanger comprising a wooden body having an elongated neck provided with upwardly curved shoulders for supporting the collar of a garment carried by said hanger, rigid unconnected arms extending from said neck and in prolongation of said shoulders, the upper portion of said neck terminating in an annular enlarged head for permitting handling of the garment without danger of soiling the same, said neck, arms and head being integral with said body, and a hanger suspending member connected to said head at a point remote from said neck.

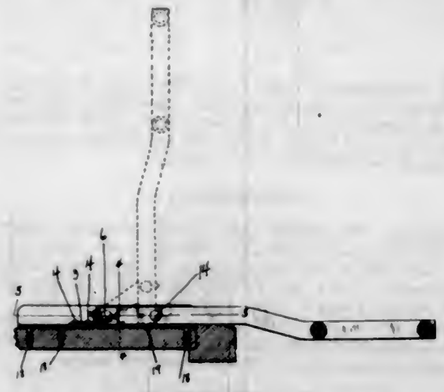
1,689,374. MACHINE FOR ELECTRICAL-RESISTANCE WELDING OF SHEET-METAL PIPE. FREDERICK L. WILLIAMS, Denver, Colo. Filed Sept. 25, 1920. Serial No. 137,785. 21 Claims. (Cl. 219—6.)

1. In a tube forming device having pushing rolls and an external former adapted to receive a strip of metal on its interior from said rolls and form same into a spiral; an internal former spaced from said external former; and



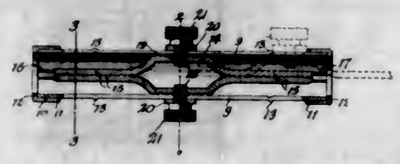
means surrounding said internal former and adapted to force said spiral away from said external former and against said internal former.

1,689,375. LOADING BRACKET FOR VEHICLES. FREDERICK W. YELLS, Geneva, N. Y. Filed May 3, 1927. Serial No. 188,463. 3 Claims. (Cl. 214—84.)



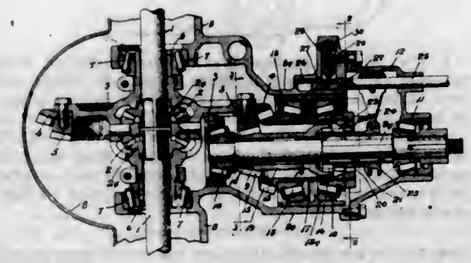
1. In a vehicle loading device, a rear section, an intermediate section pivotally mounted thereon, a loading section pivotally mounted on said intermediate section, means for securing said loading section in loading position, and spring means for securing said loading section in an inoperative position within the vehicle body.

1,689,376. MULTIPLE BIT TOOL. JOHN ZILLIOX, Orchard Park, N. Y. Filed June 22, 1927. Serial No. 200,669. 1 Claim. (Cl. 145—64.)



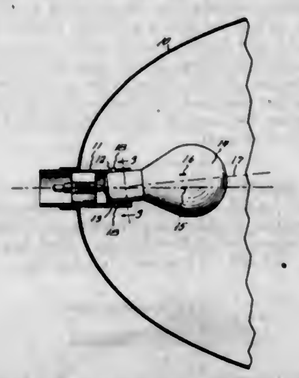
A multiple bit tool comprising a tubular casing, two bars slidable lengthwise in said casing and each having an outwardly deflected central guide part which slidingly engages with the inner side of the casing and inwardly deflected flat end portions which terminate in bits and which slidingly engage the corresponding flat end portions of the other bar, said casing being provided on opposite sides with longitudinal slots, clamping screws slidable in said slots and connected with the outwardly deflected parts of said bars and bearing against the outer side of said casing, and stops which are arranged on the exterior of said casing which are adapted to be engaged by said screws for holding the latter against lengthwise movement on the casing.

1,689,377. TWO-SPEED AXLE-GEARING CONSTRUCTION. WALTER S. AUSTIN, Grand Rapids, Mich. Filed June 14, 1920, Serial No. 388,801. Renewed Feb. 27, 1926. 4 Claims. (Cl. 74—59.)



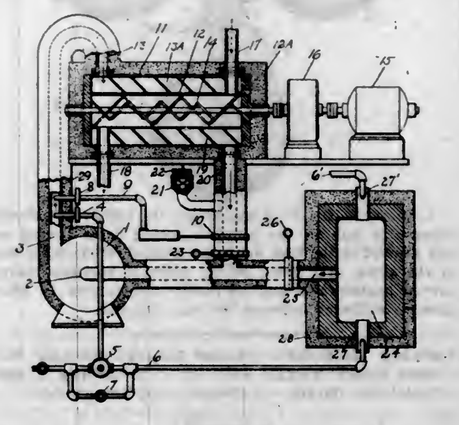
1. In a change speed gearing for motor vehicles, the combination of a rear axle and differential gearing, a housing enclosing the same and having a forward extension, a cap detachably secured to the front end of and closing said front end of said extension, an inner and an outer bevelled gear located in the housing around the differential gearing and operatively connected therewith to drive the rear axle, a drive shaft located within the housing extension and having a bearing in the closing cap, an inner sleeve mounted on the drive shaft, an outer sleeve mounted in bearings carried by the housing, means to selectively couple the shaft with either sleeve, and pinions on the inner and outer sleeves in mesh with the inner and outer bevelled gears, respectively, said shaft, sleeves and bearings therefor being detachably mounted for ready removal from the housing on removal of the detachable front closing cap, substantially as and for the purposes described.

1,689,378. AUTOMATIC HEAD LAMP. BERLIN ARTHUR BROUGHTON, Cleveland Heights, Ohio, assignor to Delta Engineering Laboratories, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 18, 1926. Serial No. 81,873. 2 Claims. (Cl. 240—41.)



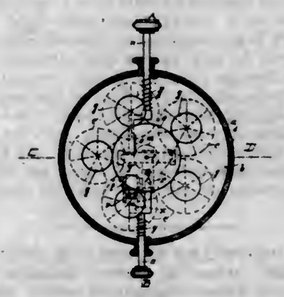
1. The combination with a reflector, of a fixed centrally disposed socket having bayonet slots in the upper and lower sides thereof, said slots being arranged out of alignment and a bulb having two filaments, said filaments being spaced equidistant above and below the longitudinal axis of the bulb so that when said bulb is inserted in the forward end of the socket one of the filaments will be positioned upon the axis of the reflector and the other one above said axis.

1,689,379. APPARATUS FOR HEAT APPLICATION. WILLIAM A. DARRAH, Chicago, Ill. Filed Dec. 29, 1924. Serial No. 758,705. 8 Claims. (Cl. 237—2.)



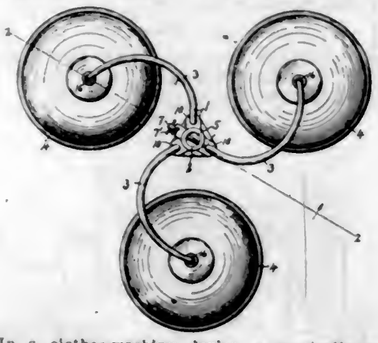
1. An apparatus for applying heat, comprising a combustion chamber, a blower, a device to be heated, a connection between said blower and said device, an outlet connection between said device and said blower, a relief opening in said outlet connection, a connection between said combustion chamber and said outlet connection, a means for supplying fuel to said combustion chamber, and a thermostatic means controlling said fuel supplying means.

1,689,380. GAME INSTRUMENT FOR POKER AND SIMILAR CARD GAMES. ERVIN GUSTAVE DE BARY, Amsterdam and Kottach-Tegernsee, Germany. Filed Apr. 30, 1921, Serial No. 465,866, and in Germany May 12, 1920. Renewed Aug. 18, 1927. 18 Claims. (Cl. 275—142.)



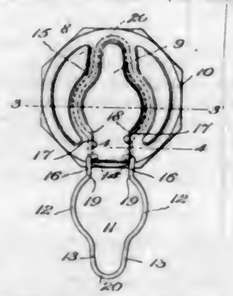
1. The herein described game-instrument for poker and similar games of cards comprising simultaneously rotatable, and arrestable disks bearing card pictures belonging to a pack and movable each behind an opening through which one card is exhibited by the rotating disk when arrested, and in combination therewith another series of similar disks bearing other card pictures belonging to the same pack exhibited on the reverse side of the instrument.

1,689,381. MECHANICAL CLOTHES WASHER. MARK A. DEFIBAUGH, Syracuse, N. Y., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y., a Corporation of Delaware. Filed Apr. 2, 1926. Serial No. 99,272. 7 Claims. (Cl. 259—144.)



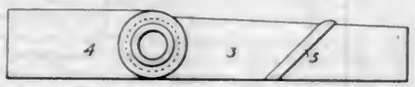
1. In a clothes-washing device, a vertically movable plunger, a hub on the plunger, spring arms having one end secured to the hub, and cups secured to the other ends of the arms, said arms having different portions thereof curved horizontally and vertically respectively to afford greater resiliency between the cup and hub.

1,689,382. ELECTRIC FLASH LIGHT. RICHARD MAXWELL EATON, Niagara Falls, N. Y. Filed Aug. 2, 1926. Serial No. 126,401. 5 Claims. (Cl. 240—10.5.)



2. The combination of a cap for a flash light adapted to serve as a base for the flash light when the same is stood on end, and a suspension loop for said flash light pivoted on said cap and foldable from a collapsed inoperative position to a non-collapsed flash light supporting position, said loop comprising a resilient body bent upon itself adjacent its mid portion and diverging therefrom to its ends, and an irregular shaped channel formed in said cap corresponding to the shape of the loop for receiving and housing the loop when the same is in collapsed inoperative position, said loop having its ends turned inwardly and forming pivots for the loop, and said channel being provided with undercut portions for receiving the diverging portions of the loop adjacent their inturned ends.

1,689,383. PROPELLER BLADE FOR DISHWASHING MACHINES. HARRY M. GOWDY, Westfield, Mass., assignor to The Planet Company, Westfield, Mass., a Corporation of Massachusetts. Filed Aug. 12, 1926. Serial No. 128,817. 2 Claims. (Cl. 170—159.)



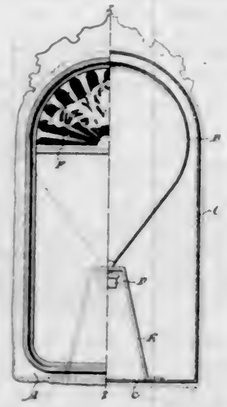
1. A single propeller blade which is designed to revolve in a horizontal plane for a dishwashing machine comprising a member which is formed with a uniform curvature on its upper surface from the tip to the base portion of the same, the curvature being concavo-convex with the concave surface on the upper side of the blade.

1,689,384. LOOM FOR WEAVING PILE FABRICS. JOHN ERNEST GROSVENOR, Hagley, and WILLIAM THOMAS PICKING, Kidderminster, England, assignors, by mesne assignments, to M. J. Whittal Associates, Ltd., a Voluntary Association of Massachusetts. Filed Jan. 27, 1928, Serial No. 249,920, and in Great Britain Dec. 4, 1926. 3 Claims. (Cl. 139—47.)



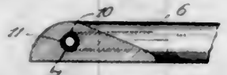
1. Pile forming mechanism for looms including hook members extending longitudinally of the pile warps and each having a substantially straight shank portion adapted to be arranged substantially centrally with respect to its group of pile threads, the under part of said straight shank portion adjacent the hook having a warp-engaging surface offset upwardly and out of alignment with respect to the corresponding surface of the rest of said straight shank portion.

1,689,385. COMBINED MIRROR OR PICTURE FRAME AND RADIOHORN. HARRY L. HAHN, Lancaster, Pa. Filed Apr. 27, 1927. Serial No. 187,009. 6 Claims. (Cl. 181—27.)



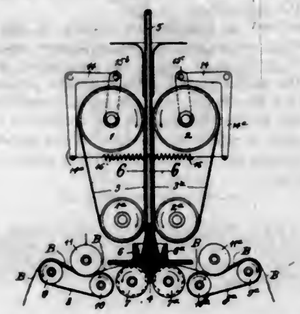
4. A frame for a mirror or picture having an upper end portion of louver-window-like construction combined with a radio horn having its mouth arranged behind the louver front thereof; said horn being of oblong form supported upon a sound-reproducing device and enclosed within a casing consisting of the frame and a shallow box-like structure having side and end flanges turned toward and abutting against the back of the frame to which said box-like structure is secured.

1,689,386. MOLDED ARTICLE AND METHOD OF MAKING THE SAME. WILFORD J. HAWKINS, Montclair, N. J., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Apr. 18, 1927. Serial No. 184,499. 9 Claims. (Cl. 18—55.)



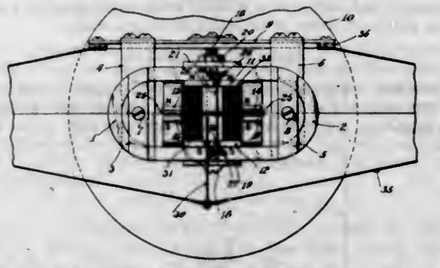
1. A molded article comprising a body of plastic material requiring curing after formation and provided with means embedded in said body whereby a liquid curing agent may be directed to the interior of the material.

1,689,387. APPARATUS FOR OBTAINING THE BAST OF STALKED PLANTS. ERNST LUDWIG ANDREAS HEIMLICH, Bremen, Germany. Filed Feb. 3, 1927, Serial No. 165,744, and in Germany Feb. 6, 1926. 4 Claims. (Cl. 130—31.)



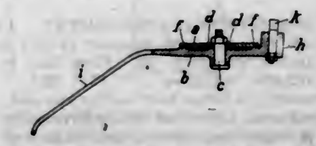
1. In an apparatus for treating stalks to remove the fiber, a stalk feeding means comprising endless belts travelling in parallel relation to grip and feed the stalk, a cutter arranged at the end of the feeding means to divide the stalk in half, means for deflecting the halves of the stalks in opposite directions, and cutting discs for removing the woody envelopes of the stalks immediately at the point of their deflection.

1,689,388. TELEPHONE RECEIVER. WILLIAM F. HENRY, Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed July 9, 1924. Serial No. 725,056. 3 Claims. (Cl. 179—119.)



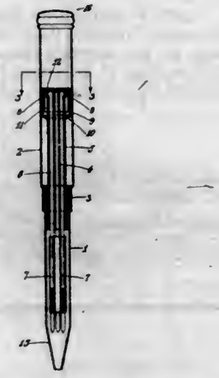
1. In a telephone receiver, two magnets, two plates, one contacting with the N and the other with the S poles of said magnets, two pole pieces projecting from each plate, an armature between said pole pieces, a spacer of non-magnetic material, means for drawing said magnet poles and said plates together against said spacer, resilient means engaging at least one of said plates for balancing said armature around a pivot point, two coils surrounding said armature near its center on the two sides of its pivot point, a diaphragm, and a strut having one end attached to said diaphragm and the other end to said armature between said coils.

1,689,389. THREAD-GUIDE LEVER FOR BRAIDING MACHINES. GUIDO HORN, Weissensee, near Berlin, Germany. Filed Jan. 21, 1927, Serial No. 162,633, and in Germany Dec. 19, 1925. Renewed Jan. 26, 1928. 4 Claims. (Cl. 96—6.)



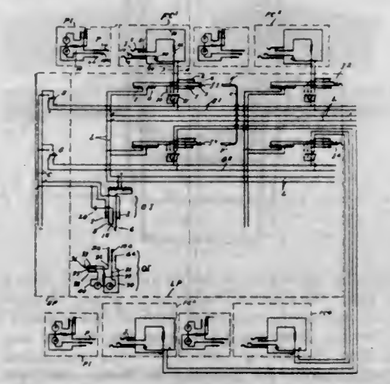
4. In a braiding machine, the combination of a spool carrier having a bearing surface, a thread guide lever pivoted on the carrier and having a bearing surface engaging the bearing surface of the carrier, one of the bearing surfaces being arcuate and at a considerable distance from the pivot.

1,689,390. PENCIL CASE. ALAN JOHNSTONE, Carshalton, England. Filed July 7, 1927, Serial No. 204,088, and in Great Britain July 8, 1926. 1 Claim. (Cl. 120—14.)



A pencil case comprising two concentric tubes displaceable and rotatable with respect to each other, a series of longitudinally slotted guide tubes mounted in the rear end of the inner of said concentric tubes and extending into the outer of said concentric tubes, a series of rods sliding in said guide tubes, a lead carrier on the forward end and a nose on the rear end of each of said rods, said noses projecting through the longitudinal slots in the guide tubes, a pair of parallel flanges on the outer concentric tube for engaging the noses on said rods, one to extrude and the other to retract the selected lead, and additional flanges which enter the spaces between the slotted guide tubes and prevent relative rotation between the two concentric tubes during longitudinal movement.

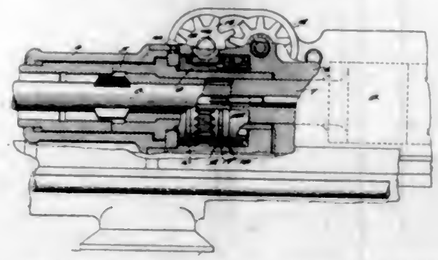
1,689,391. TELEPHONE SYSTEM AND APPLIANCES. JOSEPH S. JONES, Brooklyn, and SAMUEL N. MEAD, Jr., Baldwin, N. Y., assignors to Chas. Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 28, 1925. Serial No. 65,352. 2 Claims. (Cl. 179—41.)



1. An intercommunicating telephone systeam comprising a plurality of group-line busses, each with local station instruments, connector busses, and means for connecting the busses of any group line with the connector busses line supply busses, means for connecting any group line lins to the line supply busses, each of said means including bal-

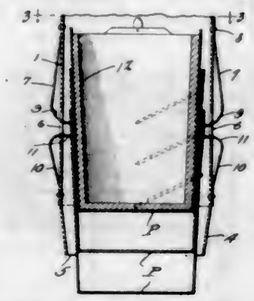
ancing impedances and a plurality of distant-station connecting switches for each group-line, and means for connecting the group-lines selectively, all said items located at a main or control station, distant stations connected to said distant station connecting switches, and means enabling the connection of any distant station to any group line other than its own group line.

1,689,392. CHUCK-ROTATING MECHANISM. AUGUST H. KATTERJOHN, Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed July 21, 1923. Serial No. 652,996. 6 Claims. (Cl. 121—7.)



1. The combination with a rotary driven sleeve member having an external annular shoulder, of a motor for rotating the sleeve member and including a worm shaft, a worm wheel slidable and rotatable on the sleeve and operated by the worm shaft, a friction washer interposed between the shoulder and the worm wheel, a second friction washer that bears against the opposite side of the wheel to the first mentioned friction washer, the sleeve adjacent to said second washer having a thread, the pitch of which is in the direction of rotation of the sleeve, and a nut threaded on said sleeve and automatically operating against the adjacent washer and the worm wheel and first washer to clamp all sufficiently tight and against the shoulder to effect the rotation of the sleeve and to take up wear.

1,689,393. DISPENSING APPARATUS. GEORGE S. KLEIN, Granger, Wash. Filed Aug. 31, 1926. Serial No. 132,763. 1 Claim. (Cl. 312—43.)

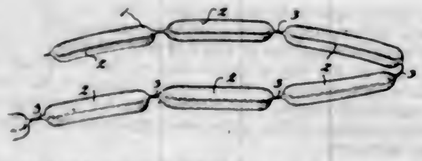


Dispensing apparatus including an elongated casing having an upper inlet and a lower outlet, a pair of oppositely extending springs connected to each of two opposed walls of the casing, jaws extending from the springs and projecting into the casing, said jaws being superposed and constituting means for gripping the lower container of a nested stack to support the stack with the lower container within and below the outlet and to bind said lower container inwardly against the next lowest container, said lower container being removable downwardly forcibly from contact with the jaws to drag the next lowest container into position between and in engagement with the jaws.

1,689,394. ARTICLE MADE OF FIBROUS MATERIAL AND METHOD OF PRODUCING SAME. WILLIAM HOFFMAN KOBBÉ, New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Mar. 14, 1927. Serial No. 175,430. 4 Claims. (Cl. 18—56.)

1. The method of making an article of the character described which comprises treating a fibrous material with wet calcined gypsum, forming the so-treated fibrous material into the shape of the desired article before the gypsum associated therewith becomes hard, permitting the so-formed article to set, drying the set article at a temperature above that at which calcination of the gypsum begins, and impregnating the dried article either wholly or in part with the sulfur.

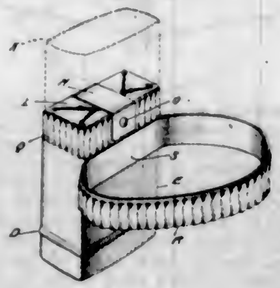
1,689,395. FLAT WIENER. WILLIAM KOUBIM, Willoughby, Ohio, assignor to Willoughby Sausage Company, Willoughby, Ohio. Filed July 27, 1927. Serial No. 208,845. 3 Claims. (Cl. 99—11.)



1. As a new article of manufacture a wiener having opposed substantially parallel flat sides adapting it for sandwiching purposes.

3. The method of manufacturing wiener sausage which comprises the formation of a sausage, compressing said sausage while in the raw state to produce a flat sided sausage, and curing said sausage while compressed to cause the flattened shape to be retained after curing.

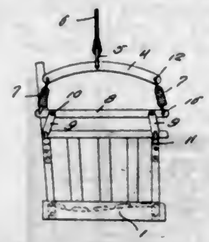
1,689,396. WATERPROOF BATHING CASE. CAROLINE ELIZABETH LANG, New York, N. Y. Filed Mar. 8, 1927. Serial No. 173,623. 3 Claims. (Cl. 150—1.)



1. A waterproof bathing case comprising a receptacle of relatively stiff material, a lid therefor, an elastic waterproof closely fitting jacket adapted to seal the joint between the lid and the receptacle, said jacket being formed as an open ended rubber bag, and means for closing and fastening the open end of said bag.

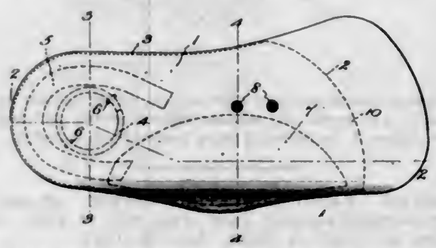
1,689,397. PORCH-SWING ATTACHMENT. CHARLES WILLIAM LEE, St. Louis, Mo., assignor of fifty per cent to Jessie Heying, St. Louis, Mo. Filed May 19, 1927. Serial No. 192,621. 2 Claims. (Cl. 155—68.)

1. In combination, a bench body having end arms, hooks fixed to said end arms, apertured links receiving said hooks, a lower bar pivotally connected to said links and having apertured end portions, an upper suspension bar adapted to be connected with suspending means and having apertured end portions, retractile springs interposed between the end portions of the said bars and having integral lower



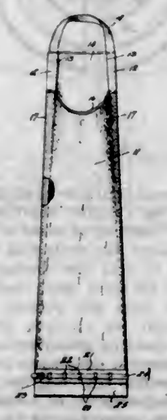
hooks disposed in the apertures of the lower bar, and hook means adjustably connected to the upper portions of the springs and disposed in the apertures of the upper bar.

1,689,398. INSOLE FOR BOOTS AND SHOES. F. PAUL LIOY, Passaic, N. J. Filed June 6, 1927. Serial No. 196,715. 4 Claims. (Cl. 36—71.)



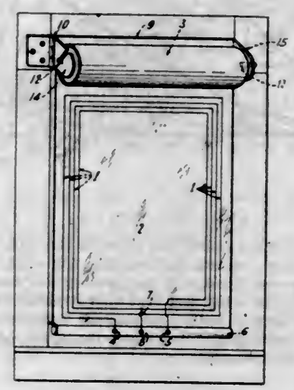
3. An insole for shoes comprising upper and lower parts joined along the edges of the heel and side portions only, the meeting ends at the toe portion of said parts providing a ventilating opening arranged beneath said upper part, said upper part also provided with ventilating openings, a spring interposed between said parts at the heel portion and a rubber cushion interposed between said parts at the arch portion.

1,689,399. COTTON-PICKING SACK. ROBERT H. MALONE, Eaton, Tenn. Filed Feb. 24, 1927. Serial No. 170,587. 2 Claims. (Cl. 150—2.)



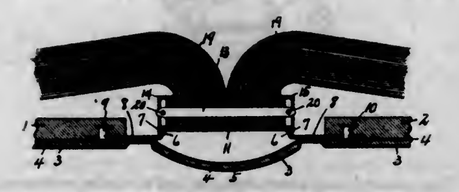
1. A cotton picking bag comprising a back breadth and a front breadth, the back breadth extending in both directions beyond the front breadth, a shoulder strap attached to the upper end of the back breadth, a reenforcing member attached to the face of the front breadth adjacent its lower end and formed with a plurality of loops, the lower end of the back breadth being reenforced and formed with openings adapted to receive said loops when the back breadth is turned up over the front breadth to close the bag, a buckle attached to the bag on one side of said loops, and a strap attached to the bag on the other side of the loops, the strap being adapted to pass through said loops and engaged with the buckle.

1,689,400. LOOP ANTENNA. LEE LINCOLN MANLEY, Brooklyn, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,611. 17 Claims. (Cl. 250—33.)



1. A loop antenna construction comprising a coiled conductor and a support in the form of a sheet of flexible material having its surface disposed in an optimum plane for desired reception, said coil being mounted in the plane and within the marginal lines of said sheet.

1,689,401. LOOSE-LEAF BOOK. DONALD S. MCCHESNEY, Syracuse, N. Y., assignor to Hall & McChesney Inc., Syracuse, N. Y., a Corporation of New York. Filed Mar. 4, 1927. Serial No. 172,622. 12 Claims. (Cl. 129—23.)

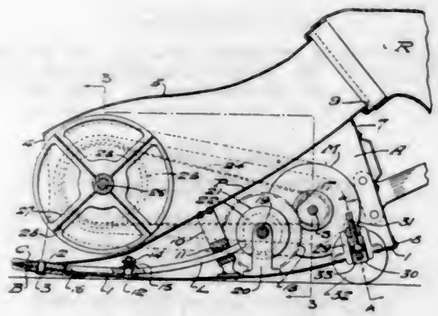


12. A loose leaf book comprising a back plate, covers hinged to the back plate, a tubular housing hinged to each edge of the back plate, a series of alined openings in each housing similarly disposed, posts having ends adapted to enter opposed openings in said housings to join the same together, a slide in each housing having slots for receiving the ends of the posts, and offset pintles on the slides adapted to engage holes in the posts.

1,689,402. MOWING MACHINE. THEODORE JOHN NOACK, Phoenix, Ariz., assignor of one-half to Grace Ketcham, Phoenix, Ariz. Filed Oct. 19, 1926. Serial No. 142,701. 1 Claim. (Cl. 56—23.)

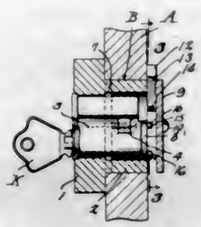
A mowing machine comprising a housing having its forward end open, a cutting mechanism carried by the bottom of the housing at the forward open end of the housing, a

partition within the housing extending rearwardly from the cutting mechanism and dividing the housing into an upper chamber and a lower chamber, a shaft within the upper chamber and supported by the side walls of the housing closely adjacent to the open end of the housing, fan blades carried by said shaft, a motor within the lower



chamber, a driving connection between the motor and cutting mechanism, means for rotating the shaft from the motor, the upper chamber of the housing rearwardly of the shaft and blades being free and unobstructed, the rear of the upper chamber having means for connection with a collecting receptacle and into which the upper compartment is adapted to discharge.

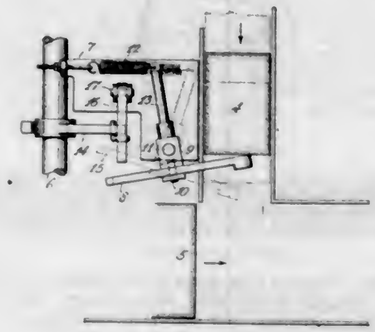
1,689,403. BUNG. ROBERT CARL OLSON, Zion, Ill. Filed Feb. 4, 1927. Serial No. 165,944. 1 Claim. (Cl. 217—108.)



The combination with a bung having a tubular extension, a bolt slidable radially on one end of the extension and means for retaining the bolt and guiding it, of a lock casing within the bung, opposed segmental retaining plates insertible in the extension at opposite sides of the lock casing, means carried by the casing for binding upon said plates to secure the plates in the extension and to fasten the lock in the bung, and key operated means carried by the lock casing for shifting the bolt radially relative to the extension.

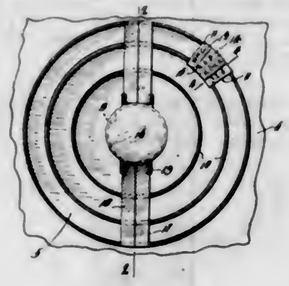
1,689,404. TIMING DEVICE FOR PACKAGE-WRAPPING MACHINES. BRUNNIE W. QUICK, Poughkeepsie, N. Y., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Aug. 17, 1927. Serial No. 213,478. 5 Claims. (Cl. 198—29.)

1. The combination with an angular pathway along which a succession of packages are normally forwarded in continuity toward the turn of said pathway, stop mechanism having a member normally riding inactively on top of the packages but arranged to drop into their path and



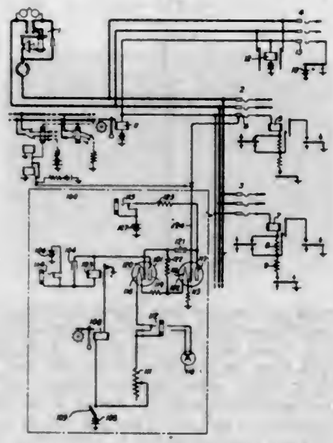
arrest oncoming packages when a break occurs in their continuity, and means for automatically resetting said member on top of the packages when continuity is restored.

1,689,405. RADIO INDICATING DEVICE. CLARENCE SCHAEFER, Davenport, Iowa. Filed Nov. 16, 1925. Serial No. 69,483. 4 Claims. (Cl. 116—124.)



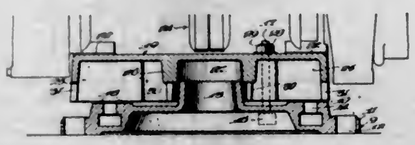
2. A wave indicator for radio receiving sets, comprising a disc member having a central aperture for the extension therethrough of an instrument shaft, a plurality of spaced concentrically arranged ribs projecting from the outer face of said disc, each of said ribs having the forward edge thereof formed to set up a bead, station indicator tags each comprising a plate like portion having a laterally extending corrugated leg at each end designed to be sprung between a pair of said ribs to engage the beads thereof, a pointer member adapted to be fixed to said shaft for rotation therewith for co-action with said tag to tune the set for the reception of a desired station, and a rib formed upon the outer face of the plate like portion of each tag to extend radially of the face of said disc, each of said ribs indicating the setting point for the indicator for the reception of the station indicated upon the tag.

1,689,406. RECORDING MEANS FOR BUSY TELEPHONE LINES. SYDNEY VICTOR COLLARD SCRUBY, BASIL ACKROYD TURKHUD, and FRANK DE FREMERY, Antwerp, Belgium, assignors, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed June 9, 1926, Serial No. 114,717, and in Great Britain July 9, 1925. 6 Claims. (Cl. 179—9.)



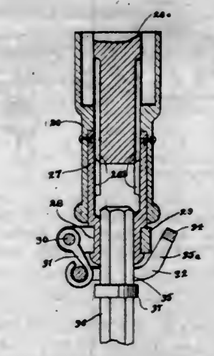
1. In a telephone system, lines, a recording device associated with one of said lines, means for interconnecting said line with a second line, means whereby an attempt may be made to connect a third line with said first line, and vacuum tube controlled means for recording said attempted connection.

1,689,407. MOUNTING FOR DRUMS AND THE LIKE. ARTHUR H. SKAER, THEODORE E. BARKER, and OMAR E. CLARK, Denver, Colo., assignors, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed Sept. 30, 1922. Serial No. 591,675. 2 Claims. (Cl. 248—15.)



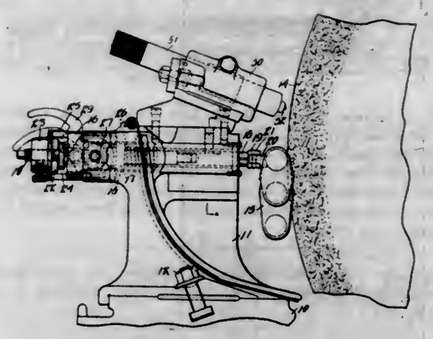
1. In a hoist, the combination of a base plate having an annular guideway, a bed plate, an upwardly extending annular flange on said bed plate cooperating with said guideway and adapted to enable said base plate to be rotated about said upwardly extending flange, and means rotatable with the base plate to prevent unseating of the base plate and for clamping said bed plate and base plate together against rotation.

1,689,408. DRILL-STEEL RETAINER. ARTHUR H. SKAER, Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed Aug. 5, 1926. Serial No. 127,409. 3 Claims. (Cl. 121—32.)



1. The combination with a drilling motor and a steel holding chuck rotatably mounted therein, of a steel retainer rotatably mounted on the chuck.

1,689,409. HYDRAULIC BACK REST. AMOS P. STEINER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1926. Serial No. 143,482. 2 Claims. (Cl. 51—238.)

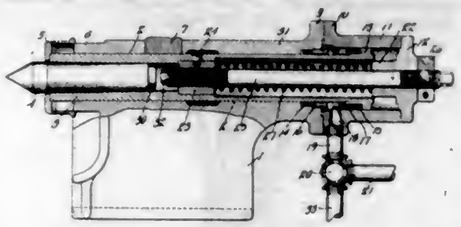


1. A hydraulic back rest comprising a casting, multiple cylinders in said casting, a piston and piston rod in each cylinder, said rod extending beyond the ends of the cylinder, a bearing block on one end of each rod, an adjusting nut on the opposite end of each rod, hydraulic means to force said rods in the direction of the work, mechanical means to force said rods in the opposite direction and a latch having a roller adapted to be placed between the adjusting nut and the cylinder end to retain said parts in the last mentioned position, substantially as set forth.

1,689,410. HYDRAULIC FOOTSTOCK. AMOS P. STEINER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa. Filed Mar. 5, 1927. Serial No. 173,185. 2 Claims. (Cl. 82—31.)

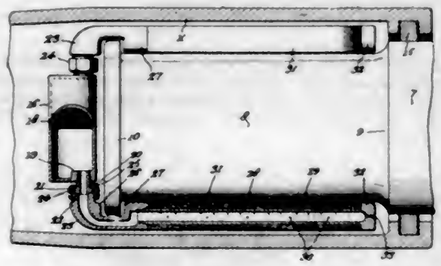
1. A foot stock comprising a base having a longitudinal bore therein, a sleeve mounted within the bore adapted to carry a work center at one end and having a flange on the

other end, a cylindrical chamber in which said flanged piston is adapted to reciprocate, means for admitting fluid pressure against said flanged portion to actuate the sleeve



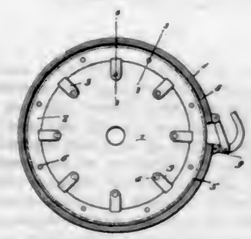
in one direction and resilient means for returning it in the other direction and adjustable means limiting its movement in said last-named direction, substantially as set forth.

1,689,411. RAILWAY JOURNAL-OILING DEVICE. CHARLES STERN and JAMES JOSEPH CARLOCK, Jersey City, N. J., assignors to B-S Manufacturing Corporation, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 8, 1927. Serial No. 218,299. 8 Claims. (Cl. 308—87.)



1. A railway journal oiling device comprising a source of lubricant supply, distributing means in communication with the lubricant in said source of supply and located adjacent the journal, said distributing means having eduction ports in the lateral and lower portions thereof, and porous means enveloping the ported portions of said distributing means.

1,689,412. BRAKE. IRWIN F. STRAND, Benson, Minn. Filed Apr. 8, 1927. Serial No. 182,165. 2 Claims. (Cl. 188—77.)



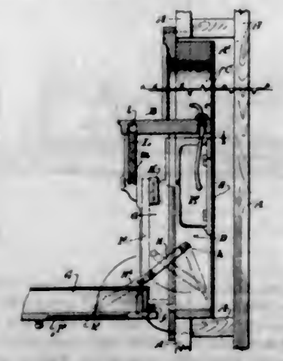
1. In a vehicle brake, a shoe, a drum, a channel shaped shoe encircling the drum, inwardly extending lugs formed on the channel shaped shoe and secured to the side of the drum, an annular brake block arranged within the shoe, the outer peripheral portion of the block projecting beyond the outer edges of the sides of the channel shaped shoe, and securing bolts extending transversely through the sides of the shoe and said block.

1,689,413. NEEDLE FOR TUFTING MACHINES. OSCAR TERVO, Quincy, Mass., ass'gnor to Wilfred B. Mathewson, North Weymouth, Mass. Filed Jan. 19, 1925. Serial No. 3,254. 2 Claims. (Cl. 112—224.)



1. A needle having a central thread-receiving bore and a single longitudinally-extending slot communicating with the bore in a radial direction, the mouth of the slot being of less width than the diameter of the bore and presenting relatively sharp edges directed toward each other and situated equidistant from the center of the bore, said needle also having at one end of the slot and in line therewith a threading opening which is wider than the slot, said opening communicating with the bore and also communicating with the slot through a converging throat, and said needle further having at the other end of the slot an eye extending transversely therethrough, in combination with a threading finger separate from the needle and extending across the converging throat and the adjacent portion of the threading opening, said threading finger being resiliently held against the needle whereby when a thread or cord is drawn under said finger the portion of the cord beneath the finger will be forced in the threading opening and the converging throat and the needle may then be threaded by drawing the cord or thread longitudinally of the slot and into the bore and subsequently inserting the end of the thread through the eye.

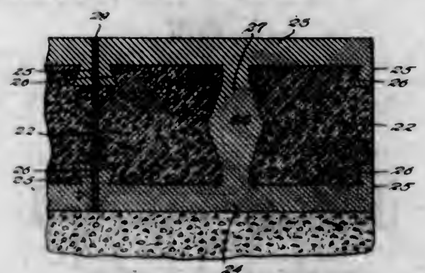
1,689,414. TELEPHONE CABINET. EARL M. TRAMMELL, El Paso, Tex., assignor to El Paso Sash & Door Company, El Paso, Tex. Filed July 9, 1927. Serial No. 204,534. 1 Claim. (Cl. 312—113.)



A telephone cabinet having a closet a shelf at the top of the closet to support a telephone outfit, a door hinged adjacent its lower end of the closet, said door having

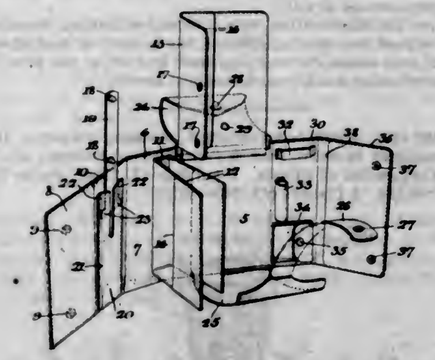
means to receive a telephone directory, said door being spaced materially both below said shelf and from the rear wall of the closet to accommodate a call box and permit access to the latter while the door is in closed position, a panel on the front of the closet normally closing the space between the shelf and door, and means for permitting said panel to be lifted upwardly and out of the cabinet.

1,689,415. COMPOSITE PAVING BLOCK. EDWIN C. WALLACE, Newton, Mass. Filed May 25, 1926. Serial No. 111,524. 8 Claims. (Cl. 94—15.)



1. A paving block having a body of concrete and top and bottom coverings of rubber material, said top and bottom coverings provided with devices for securing them to the concrete body, and a member connected with the said top and bottom coverings and passing through the said body to additionally secure the top and bottom coverings, the said member having a widened portion within the said body to secure the said member in place.

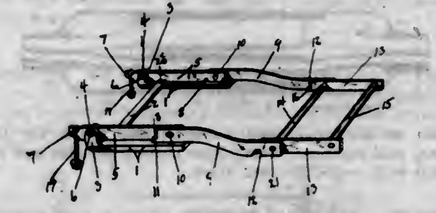
1,689,416. CARRYING CASE AND PORTFOLIO. ORVAL R. WOOD, Seattle, Wash. Filed Nov. 16, 1925. Serial No. 69,492. 2 Claims. (Cl. 224—47.)



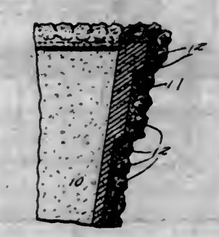
1. A carrying case embodying compartments for a purse, pencil, and note pad mounted on the inside face and a carrying handle mounted on the outside face of the top closure; a book holder extensible from a side closure and foldable thereon to lie within the limits of the closure; a book cover mounted on the inside of the bottom closure, and defining a space for a third book; and means extensible from a second side closure for the support of the extensible book holder.

1,689,417. VEHICLE LOADING DEVICE. FREDERICK W. YELLS, Geneva, N. Y. Filed May 3, 1927. Serial No. 188,462. 5 Claims. (Cl. 214—84.)

1. In a device of the class described, a base section, a rear section pivotally mounted thereon, an intermediate section pivotally mounted on said rear section, a front section pivotally mounted on said intermediate section, means attached to the vehicle for locking said sections one to the other in longitudinal alignment and in substantially the plane of the floor of the vehicle, means for removably affixing said rear section to the floor of a vehicle, and means for folding said sections one upon the other.

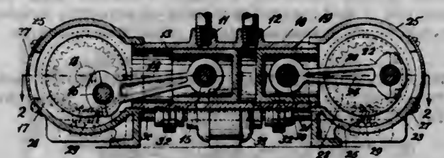


1,689,418. METHOD OF ORNAMENTING FLOWER-POTS. FRANK W. YOUNG, Crown Point, Ind. Filed Apr. 12, 1927. Serial No. 183,155. 1 Claim. (Cl. 41—36.)



The method of ornamenting a flower pot of porous texture consisting in applying to the exterior surface and upper edge surface of the pot a plastic coating consisting of plaster of Paris, aluminum bronze and vinegar, then embedding a layer of cinders in the coating and finally firing the coating to produce an ornamental sheen surface at the exterior of the pot.

1,689,419. VALVELESS PUMP OR COMPRESSOR. WILHELM B. BRONANDER, Montclair, N. J., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Feb. 3, 1926. Serial No. 85,643. 7 Claims. (Cl. 103—166.)

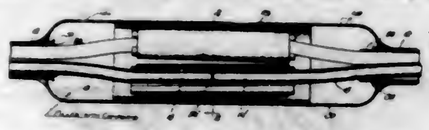


1. A valveless pump or compressor comprising a cylinder having an inlet port and an outlet port in its wall, two pistons working in said cylinder, and means for producing relative differential retreating movements of said pistons in the region of said inlet port to draw a charge into said cylinder, and relative differential approaching movements of said pistons in the region of said outlet port to expel a charge from said cylinder, said means including two crankshafts one at either end of said cylinder, a common drive for said crankshafts, and operative connections.

1,689,420. CABLE JOINT. NELSON E. BUCK, DENNEY W. ROPER, and ALEXANDER P. THOMS, Chicago, Ill. Filed Mar. 26, 1923. Serial No. 627,604. 11 Claims. (Cl. 173—268.)

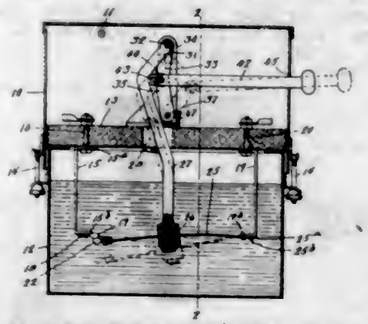
6. In a cable joint, in combination, a plurality of conductors, a plurality of separators individual to the conductors providing separate tubular passageways for said con-

ductors, said separators each having their surface in contact at a point with the surface of the adjacent separator inside the joint, all said contacting surfaces being sur-



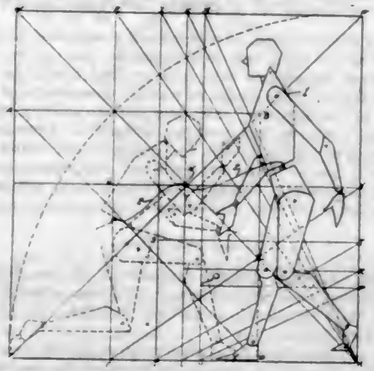
faces of revolution, and an insulating filling for the joint, said separators comprising parts telescoped and rotated with respect to each other.

1,689,421. ELECTRIC SWITCH. GEORGE A. BURNHAM, Saugus, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed July 3, 1922. Serial No. 572,529. 2 Claims. (Cl. 200—153.)



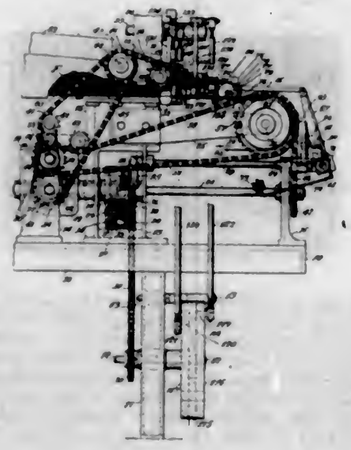
1. In an electric switch, a supporting plate, a stationary switch member carried by and extended from said plate, a supporting member similar to said stationary switch member and carried by and extended from said plate, a spring arm secured to said supporting member and adapted to be reflexed against its own spring action into contact with said stationary switch member, a connecting rod connected with said spring arm and extended upwardly through said supporting plate, means to guide the upper end of said connecting rod for movement in substantially a straight line and means to operate said connecting rod whereby to flex said spring member against its own spring action into engagement with said stationary switch member including a toggle connected with the upper end of said connecting rod and an actuating member for said toggle having lost motion connection therewith.

1,689,422. EDUCATIONAL APPLIANCE. BHIMA BURTON, New York, N. Y. Filed Oct. 29, 1926. Serial No. 144,942. 8 Claims. (Cl. 35—16.)



1. An educational appliance consisting of a combined diagram of geometrical figures based on the fundamental principles of dynamic symmetry and a figure associated therewith and having the various parts thereof constructed, proportioned and assembled according to the fundamental principles of dynamic symmetry.

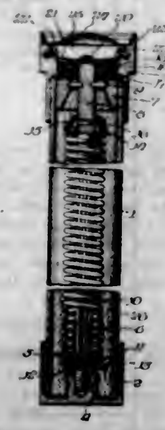
1,689,423. FILLER FEED FOR SCRAP-BUNCH-CIGAR MACHINES. SIGURD CLAUSEN and CHARLES V. LINDBLAD, Brooklyn, N. Y., assignors to International Cigar Machinery Company, a Corporation of New Jersey. Filed May 17, 1927. Serial No. 192,053. 20 Claims. (Cl. 131—39.)



1. The combination with a density-measuring chamber, of means for feeding filler into said chamber, and means actuated by a wall of said chamber for stopping said feeding means when the filler in said chamber reaches predetermined density.

14. The combination with a density-measuring chamber, of a feed belt passing through the bottom of said chamber, and means for stopping said belt when the filler in said chamber reaches predetermined density.

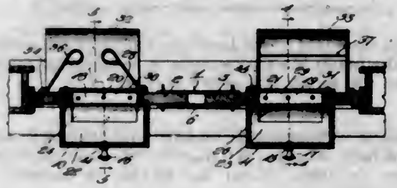
1,689,424. FUSE. NICHOLAS J. CONRAD, Wilmette, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a Corporation of Illinois. Filed May 17, 1926. Serial No. 109,814. 1 Claim. (Cl. 200—113.)



In a device of the class described, a pair of fuse terminals, a fuse element connected between them, a spring

for moving one of said terminals away from the other when the fuse melts, a fluid tight casing for said element, said casing including a pair of external terminals and an intermediate glass tube within which the spring is disposed, a bath of arc extinguishing liquid in said casing, said arm extinguishing liquid comprising a halogen derivative of a hydrocarbon which is normally inert, but which, under the action of light, disintegrates and attacks the fuse, changing its capacity, said glass tube having embodied therein a substance which screens out the rays that tend to disintegrate the liquid, but permits sufficient visible light to pass therethrough to permit the position of the spring to be seen to determine whether the fuse has blown or not.

1,689,425. VENTILATOR. FRED DECELLE, Nashua, N. H. Filed May 10, 1927. Serial No. 190,255. 3 Claims. (Cl. 98—99.)

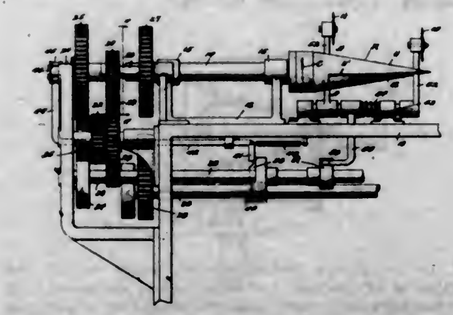


1. A ventilator comprising two sections adjustable with respect to each other and having openings therein, screens mounted over the openings, cylinders mounted on the sections, other cylinders arranged within the first cylinders, and movable with respect thereto and having openings adapted to communicate with the openings of the sections, funnel portions mounted on the first cylinders and communicating therewith and hoods arranged on the sections; one of which is provided with interior wings and the other of which is provided with a cut-out portion and being so constructed and arranged that they communicate with the openings in the sections.

1,689,426. DIFFERENTIAL COLORED FABRIC AND METHOD OF MAKING SAME. CAMILLE DREYFUS, New York, N. Y., and HERBERT PLATT, Cumberland, Md., assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Aug. 13, 1927. Serial No. 212,832. 10 Claims. (Cl. 8—5.)

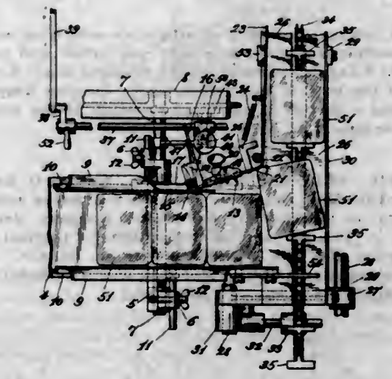
1. A fabric comprising yarn of a material other than cellulose having a design of cellulose material imprinted thereon.

1,689,427. MACHINE FOR MAKING PAPER CONES. CHARLES K. DUNLAP, Hartsville, S. C., assignor to Sonoco Products Company, Hartsville, S. C., a Corporation of South Carolina. Filed Nov. 1, 1926. Serial No. 145,609. 14 Claims. (Cl. 93—79.)



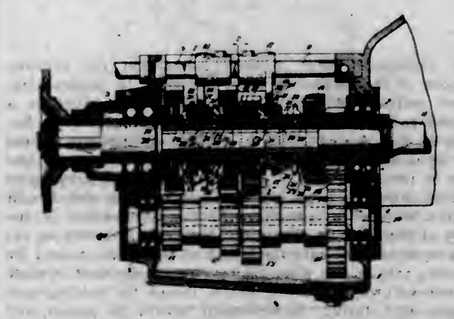
1. A substantially hollow conical mandrel comprising two relatively movable portions the outer surfaces of which normally define the conical mandrel surface, and means for retracting one of said portions within the other and replacing the same in normal position, said means including coaxial spindles, one secured to each portion of the mandrel, and mechanism for effecting relative axial movement of said spindles.

1,689,428. WRAPPING-MACHINE CONTROL. FRED FARMER, Brooklyn, N. Y., assignor to American Machine and Foundry Company, a Corporation of New Jersey. Filed July 31, 1926. Serial No. 126,187. 9 Claims. (Cl. 192—125.)



3. The combination with an inclined gravity feed chute, of a correspondingly inclined conveyor receiving articles from said chute and moving them in a direction substantially at right angles thereto, and machine-stopping mechanism automatically actuated only by a defective or misplaced article passing from said chute to said conveyor, said mechanism including an actuating member hinged to and forming a yielding section of one of the walls of said chute, and a conveyor wall hinged to the free end of said section.

1,689,429. GEAR-LOCKING OR CLUTCH MECHANISM FOR GEAR-CHANGE SETS. CARLYLE B. FUNK, Chicago, Ill. Filed Apr. 20, 1925. Serial No. 24,574. 9 Claims. (Cl. 192—93.)



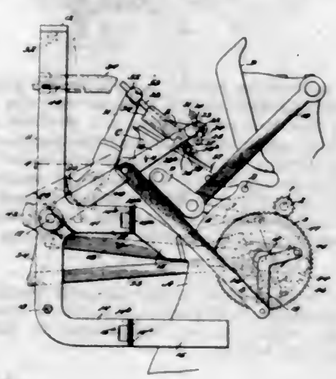
1. In a change-gear set of the type set forth, a shaft, a gear wheel rotatable relatively to said shaft, a clutch element rigid with said gear, a sleeve on said shaft, a clutch element non-rotatable relatively to the shaft and associated with said sleeve, said clutch elements movable relatively to each other longitudinally of said shaft and having opposed faces provided with radial formations adapted to intermesh, wedge-like cam-members pivotally associated with one of said clutch elements for forced engagement with the other thereof to effect intermeshing, and a member movable longitudinally of said shaft and of the clutch element carrying said cam members for actuating the latter.

1,689,430. PACKAGE AND METHOD OF MAKING THE SAME. GEORGE W. GWINN, Hewlett, N. Y., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Apr. 26, 1927. Serial No. 186,659. 6 Claims. (Cl. 93—2.)



1. A package comprising an article, an underlying wrapper smoothly overlying one end of said article and overlying in a circular series of closely arranged pleats a portion of the body of said article, and a covering wrapper overlying a portion of the pleated portion of the underlying wrapper.

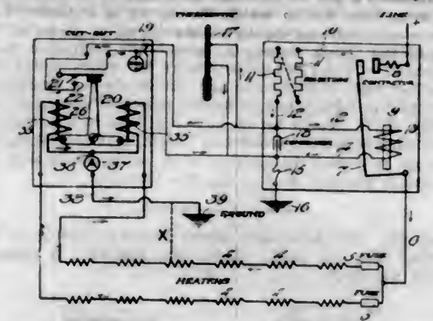
1,689,431. DELIVERY MECHANISM. WALTER O. HALL, Franklin, Mass., assignor, by direct and mesne assignments, to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Feb. 26, 1923, Serial No. 621,438. Divided and this application filed June 12, 1924. Serial No. 719,673. 21 Claims. (Cl. 101—287.)



1. Automatic sheet delivery mechanism for printing presses of the oscillating type, including in combination, sheet gripping fingers mounted for reciprocation in a curved path extending from the face of the platen adjacent the tail edge of the sheet operated on to points outside the press, means for reciprocating said fingers in timed relation to the oscillation of said press, including a swinging member having a pivot below the path of the sheets, said means being adjustable whereby the termination of the path of the gripping fingers on the platen face may be varied in accordance with the length of the sheets, means for opening said fingers when they approach the limit of their movement away from the platen, means for holding said fingers open during the movement toward the platen, and means for releasing said holding means to permit said fingers to close on a sheet when said fingers approach the limit of their movement towards the platen.

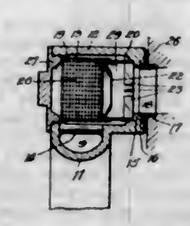
1,689,432. ELECTRIC HEATER SYSTEM. WILLIAM G. HARTWIG, Chicago, Ill. Filed Apr. 9, 1923, Serial No. 630,731. Renewed Feb. 25, 1927. 9 Claims. (Cl. 219—20.)

1. In a thermostatically constructed heater system for electric cars and the like, a plurality of heaters arranged in two parallel circuits, an electro-magnetically controlled contactor controlling the supply of current to said heaters, a thermostat normally controlling the circuit of said contactor, a normally open switch adapted to short circuit the thermostat when closed, means normally holding the



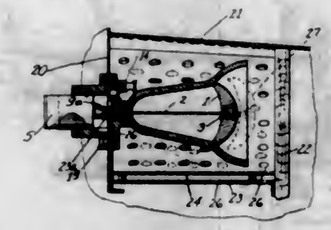
switch open, said means jointly controlled by the respective parallel heater circuits, whereby a short-circuit in either circuit will permit said switch to close.

1,689,433. CONDENSER CAGE FOR INTAKE MANIFOLDS. SAMUEL B. HARVEY, Wellston, Mo. Filed Sept. 3, 1925. Serial No. 54,174. 8 Claims. (Cl. 48—180.)



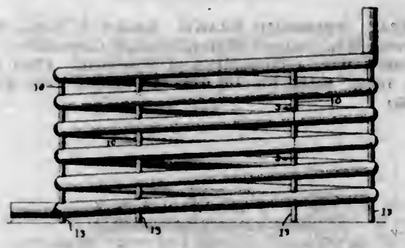
1. In a condenser cage for intake manifolds of internal combustion engines, a cylindrical tubular cage member having a section of wire mesh material and a section of imperforated material united as a unit, rods disposed at the outer end of the imperforated section and extending inwardly into the passageway formed by the tubular member and means disposed at the inner end of the section of non-wire mesh material for directing a central flow of gaseous mixture from the section of wire-mesh material through the section of imperforated material for direct impingement against said rods.

1,689,434. AUTOMOBILE THEFT-ALARM SYSTEM. HARRY C. HAY, Cincinnati, Ohio, assignor, by mesne assignments, to The Crim, Wadsworth & Thiel Auto Theft Alarm Development Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 21, 1926. Serial No. 103,622. 6 Claims. (Cl. 116—33.)



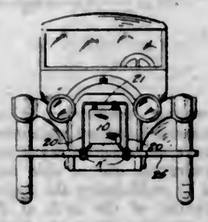
1. In an ignition locking system, means to lock the ignition in off position, and a bell casing connected with said locking system, said connection consisting of a clapper movable to a freely vibratory position in which exterior vibration will induce its vibration within said bell casing with the locking of the ignition.

1,689,435. HEAT-EXCHANGING COIL. EDWIN I. HEINSOHN, Cleveland, Ohio, assignor to The Glascote Company, Euclid, Ohio, a Corporation of Ohio. Filed Jan. 26, 1925. Serial No. 4,695. 8 Claims. (Cl. 137—75.)



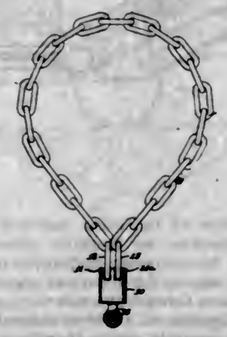
1. As a new article of manufacture, a glass-coated pipe coil comprising a plurality of convolutions formed from a single length of pipe and having glass-coated spacers between the convolutions and integrally united therewith.

1,689,436. WATER-BAG CARRIER. CHARLES S. HODGE, Seattle, Wash. Filed Feb. 23, 1927. Serial No. 170,147. 2 Claims. (Cl. 224—29.)



1. A water-bag carrier for an automobile, said carrier comprising a frame of substantially the shape of an inverted capital letter U, devices mounted upon the side elements of the frame, set screws engaging the devices for securing the devices in adjusted positions to the frame and securing the latter in a vertical position to the automobile, hooks depending from the bar element at the top of the frame for suspending the bag, hooks detachably engageable with the bottom of the bags, and springs connecting the last named hooks with said devices.

1,689,437. TIRE-CHAIN LOCK. EDWIN P. HUBD, Detroit, Mich. Filed Sept. 4, 1926. Serial No. 133,575. 6 Claims. (Cl. 70—17.)



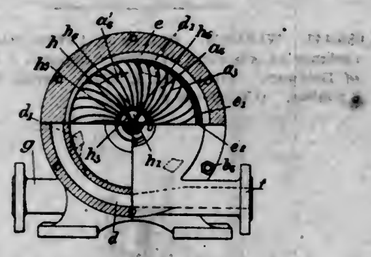
1. A lock comprising a casing provided with a pair of adjacent slots in one end thereof and adapted to receive the opposite end links of a chain, a rotary cam engageable within the said slots adapted to permit the entrance of one link at a time into said slots, and key controlled means for moving the said cam into engagement with the said end links.

1,689,438. TIRE COVER. ROSCOE B. JELLISON, Los Angeles, Calif., assignor to Parker and Waterman Manufacturing Company, Los Angeles, Calif. Filed Dec. 27, 1926. Serial No. 157,145. 5 Claims. (Cl. 150—54.)



1. A tire cover having one integral circular side member, a plurality of overlapping tread sections secured to the circular margin of said side, and a plurality of segments secured at their outer margins to said tread sections and forming a second side portion.

1,689,439. ROTARY AIR PUMP. FRANZ LAWACZECK, Munich, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Sept. 29, 1926. Serial No. 136,352. 6 Claims. (Cl. 230—108.)



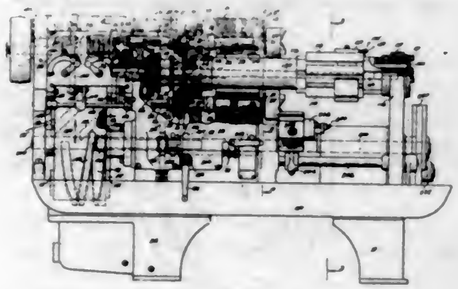
1. A rotary air pump comprising a casing, a runner having bladiug cells therein, a distributor for the supply and discharge of air to and from the runner, means for introducing fluid under pressure to the periphery of said runner for compressing and discharging the air from the runner and means for discharging the pressure fluid from the periphery of said runner for drawing in a further supply of air to be compressed, said pressure fluid constituting the sole means for rotating the runner.

1,689,440. CHUCKING MACHINE. ARTHUR J. LEWIS, Stratford, Conn., assignor to The Baird Machine Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 5, 1923. Serial No. 636,856. 36 Claims. (Cl. 29—38.)

1. In a machine of the class described, a supporting frame, a rotatable spindle carrying turret mounted in said frame, and a tool support extending through the turret and supported by the frame on opposite sides of the turret independently of the turret.

24. In a machine of the class described, a plurality of work spindles, drive shafts for said spindles, clutch connections between the shafts and spindles, a bracket, a rotat-

able sleeve mounted on said bracket, a ring or flange mounted on said sleeve and having connection with said shafts, and coacting cam means carried by said sleeve and flange arranged upon rotation of the sleeve to disconnect said clutch connections.



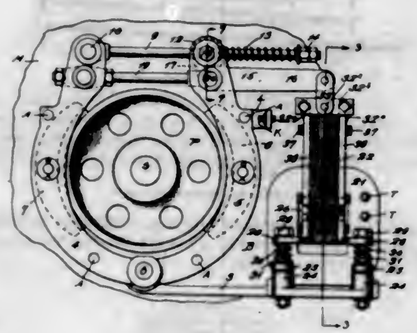
35. In a machine of the class described, a supporting frame, a rotatable turret mounted in the frame, a plurality of work spindles carried by the turret, driving shafts for the respective spindles mounted in the frame, detachable driving connections between the driving shafts and their corresponding spindles, a plurality of driving gears of different diameters on a shaft coaxial with the turret, a gear on each driving shaft meshing with one of said driving gears, means for disconnecting the driving connections between the shafts and the spindles, and means for indexing the turret.

1,689,441. WINDOW. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, a Corporation of Delaware. Filed July 6, 1926. Serial No. 120,599. 6 Claims. (Cl. 20—49.)



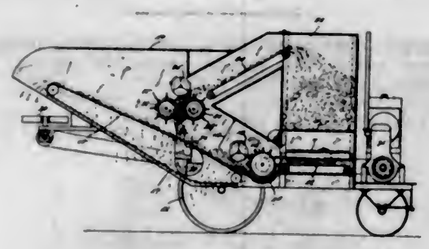
1. A window including a casing, a lower sash, laterally projecting pins thereon, an upper sash, plates at the lower end of said upper sash removably engaging said pins, said upper sash being adapted to swing on said pins, and means on said plates co-operating with said casing to hold said plates on said pins, while said sash is swung to a horizontal position.

1,689,442. SOLENOID BRAKE. GEORGE J. LEXA, Wauwatosa, Wis., assignor to Harnischfeger Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 14, 1926. Serial No. 101,971. 25 Claims. (Cl. 175—336.)



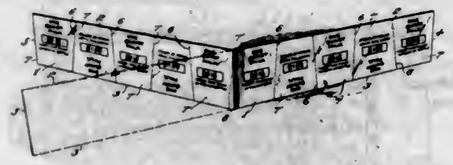
1. An electro-magnet comprising a solenoid, a core member and an armature member associated therewith and mounted for relative movement toward one another when the solenoid is energized, one of said members being resiliently mounted to yield under the impact, of the other and to move laterally of the path of flux through the solenoid, to magnetically cushion the force of the impact.

1,689,443. COMBINATION COTTON HARVESTER. WALLACE F. MACGREGOR, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed Mar. 22, 1927. Serial No. 177,409. 7 Claims. (Cl. 19—38.)



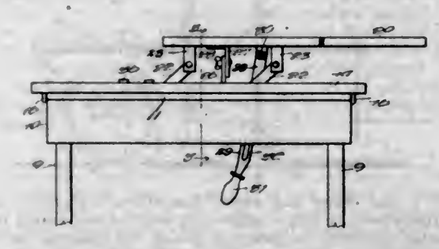
1. In a machine of the class described, a separator, means in the separator for breaking cotton bolls, means in the separator for conveying gathered cotton to the boll breaking means, means for conveying material from the boll breaking means through the separator, means for producing and discharging an air blast through the material in its travel to separate cotton therefrom, means intercepting the traveling material and gathering cotton lint therefrom, and means for conveying the cotton lint from the gathering means to a point of discharge.

1,689,444. ORDER TICKET OR COUPON. CHARLES MANSHEL, Newark, N. J. Filed Mar. 26, 1925. Serial No. 18,439. 3 Claims. (Cl. 283—51.)



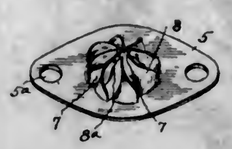
1. As a new article of manufacture, a sheet of paper or cardboard, having printed thereon a multiplicity of legends in spaced apart units, said sheet having edges and scorings defining a separable wedge-shaped outline for the space of each of said units.

1,689,445. IRONING BOARD. LEWIS E. MERRIMAN, Salina, Kans., assignor to The Merriman Manufacturing Corporation, Fort Wayne, Ind., a Corporation of Indiana. Filed June 23, 1924. Serial No. 721,765. 6 Claims. (Cl. 68—10.)



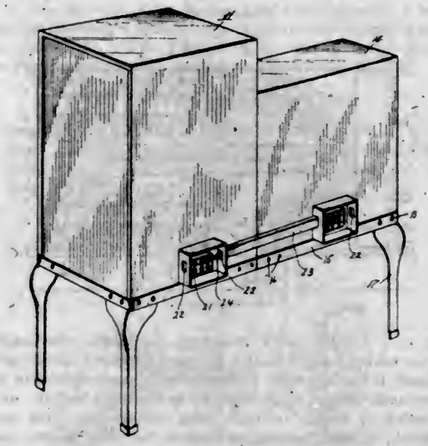
1. The combination with a support, of an ironing-board movable between a lowered position and an elevated position, links having permanent pivotal connections with different portions of the support and with different portions of the board, said links being movable between lowered positions and raised inclined positions beyond the transverse vertical planes passing through the pivots that connect the links with the support, and a stop for supporting the board in its elevated position and limiting the swinging movement of the links.

1,689,446. MIXING DEVICE. WILLIAM H. MILLER and HENRY G. THOMPSON, Cleveland, Ohio. Filed Dec. 5, 1921. Serial No. 519,941. 3 Claims. (Cl. 48—180.)



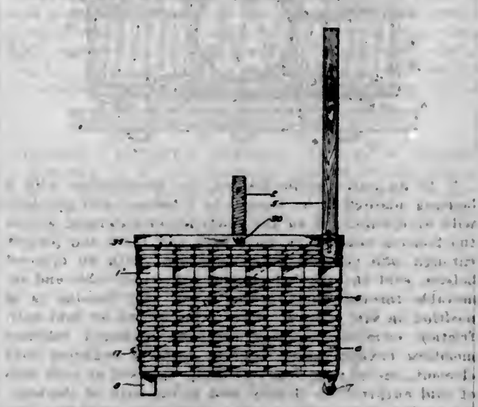
1. A mixing device comprising a base plate adapted to be secured between the sections of conduit, said plate having an opening, a plurality of vanes surrounding said opening and extending over said opening, each vane being attached at one end to the base, said vanes being of spiral shape and each having its other end adjacent and in the same vertical plane as the vertical axis of the opening in the base.

1,689,447. REVERSIBLE STOVE. LEWIS MOORE and CLAUDE M. DIBBLE, Joliet, Ill., assignors to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Nov. 2, 1925. Serial No. 66,243. 8 Claims. (Cl. 126—39.)



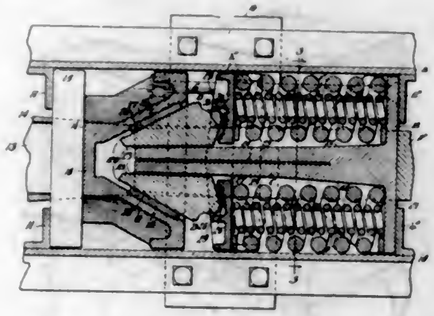
1. A stove, comprising a combined oven section and a burner box section, said sections being formed for reversible adjacent arrangement, and means arranged at the opposite sides of each section for securing adjacent faces of said parts together to combine the sections into a unitary stove construction, said means being also adapted for attaching supporting legs to said sections.

1,689,448. SHOPPING BASKET. ANNA MOYNAHAN, Cleveland Heights, Ohio. Filed Mar. 30, 1927. Serial No. 179,430. 2 Claims. (Cl. 280—51.)



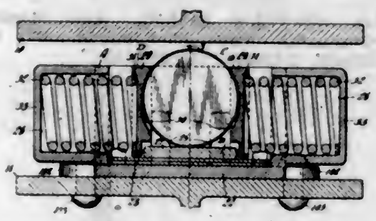
1. In a basket receptacle comprising a basket body and an intermediate carrying handle, of a pair of rollers for supporting the basket when used as a vehicle affixed to the underside of the basket, and a propelling substantially inverted U-shaped handle pivoted to the basket adjacent an upper end portion thereof and adapted to be swung to either of two alternative positions, in one of which positions the handle embraces the basket exterior and in the other position the handle is upright and disposed above the basket at an end thereof, and means to secure the handle in the last named position, whereby it may be grapsed and adapted to communicate propelling means to the basket when supported on its rollers, said rollers being disposed below the end walls of the basket and within a continuation of the plane of any lateral side wall thereof.

1,689,449. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 30, 1925, Serial No. 5,656. Renewed Mar. 30, 1928. 10 Claims. (Cl. 213—36.)



1. In a friction shock absorbing mechanism, the combination with a longitudinally disposed friction element, said element being laterally yieldable and compressible to an appreciable extent to provide for preliminary action; of a plurality of wedge friction shoes cooperating with said element; a main spring resistance for said shoes; and wedge pressure transmitting means cooperating with said shoes.

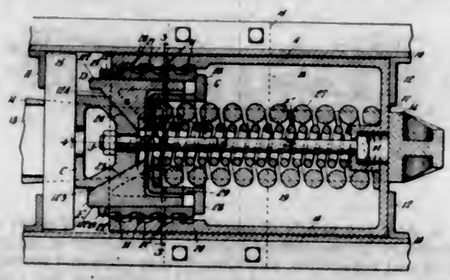
1,689,450. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 5, 1926. Serial No. 86,161. 4 Claims. (Cl. 308—226.)



3. In an anti-friction bearing, the combination with a housing adapted to be secured to a bolster, and provided with an opening; of an anti-friction roller element within the housing adapted to move back and forth and project through said opening into engagement with an opposed bolster, said anti-friction element being insertable and removable through said opening when said housing is in position on said bolster; of centering means for said anti-friction element including centrally arranged follower members having curved bearing surfaces engaging said element, one of said members being disposed at each side of said anti-friction element and in the path of the bearing surface thereof; means on said housing providing centrally disposed pockets telescopically receiving said members; means yieldingly opposing movement of each member independently, said members being adapted to be forced apart against said yielding means to effect removal of the roller through said opening.

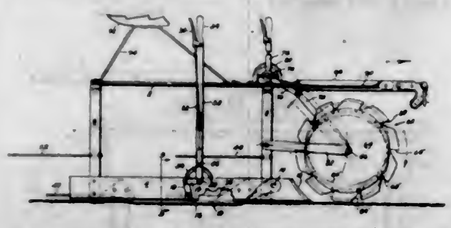
1,689,451. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 27, 1927. Serial No. 164,011. 9 Claims. (Cl. 213—24.)

In a friction shock absorbing mechanism, the combination with a spring cage; of liners within the cage and having limited longitudinal movement with respect to the cage less than the full compression stroke of the mechanism; an anti-friction mounting for said liners; friction



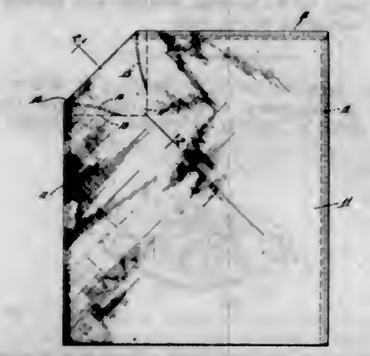
means adapted for relative movement with respect to said liners; and spring resistance means opposing movement of the liners and friction means inwardly of the cage.

1,689,452. VINE CUTTER AND WEEDER. WALTER H. PHILLIPS, Modesto, Calif. Filed Sept. 25, 1926. Serial No. 137,662. 7 Claims. (Cl. 55—60.)



1. A vine cutter and weeder comprising a plurality of cutting knives, a frame supporting said cutting knives in mowing position, supporting means for guiding said frame along the ground, said supporting means comprising pivoted runners, means for adjustably raising and lowering said runners relative to said frame, and auxiliary means for adjustably raising or lowering any one of said cutting knives relative to the frame.

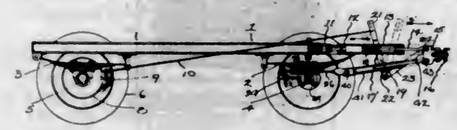
1,689,453. SELF-CLOSING BAG. LE MOINE F. RANDOLPH, Chicago, Ill. Filed Oct. 23, 1924. Serial No. 745,318. 1 Claim. (Cl. 150—9.)



A self closing bag comprising a sheet of fabric folded upon itself and secured at its side and top edges, one corner of the bag structure being left free and folded inwardly to present two contiguous fabric walls terminating in loosely lying pointed flap portions, and two converging lines of stitching securing said inturned corner walls together to form a funnel shaped filling opening,

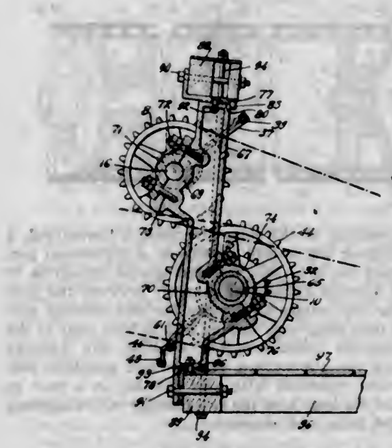
said lines of stitching terminating short of said loosely lying flap portions, whereby when the bag is filled said flap portions tend to cling to one another and obstruct the filling aperture to materially aid in preventing the escape of the contents of the bag.

1,689,454. DRAWBAR. ADAM A. RECTOR, San Francisco, Calif., assignor to Rectobar Manufacturing Company, Reno, Nev., a Trust Association. Filed Apr. 29, 1926. Serial No. 105,340. 4 Claims. (Cl. 280—33.55.)



1. A draw bar and steering apparatus for vehicles comprising, in combination, a pair of slidably related bars each having the free ends thereof universally connected to a pair of independent vehicles, said bars having a limited sliding movement relative to each other; a steering apparatus on one of the vehicles; means to telescopically connect said steering apparatus to the other of the vehicles; and a lever pivoted at one end of the slidably related bars and having the telescopic means guided therein and pivoted at its other end to the other of the vehicles, to hold said bars and means together in all lateral movements.

1,689,455. DRILLING APPARATUS. WARREN A. ROSS, Long Beach, Calif., assignor of one-fourth to Donald M. Carter, Chicago, Ill., and one-fourth to Truman O. Boyd, Long Beach, Calif. Original application filed Feb. 11, 1927, Serial No. 167,567. Divided and this application filed Aug. 8, 1927. Serial No. 211,372. 5 Claims. (Cl. 254—187.)

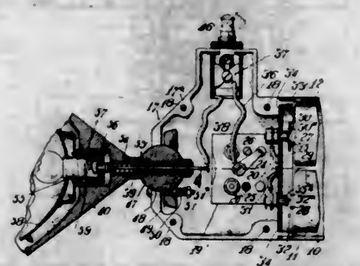


1. A draw works comprising a shaft, a plurality of metal bearing supporting members provided with bearings for the shaft, top and bottom members connecting the bearing supporting members and aligning members separate from the bearing-supporting members and removably connected therewith and with said top and bottom members.

1,689,456. METALLURGICAL PRODUCT AND PROCESS OF PRODUCING SAME. EMIL SCHÜZ, Leipzig-Grosszschocher, Germany, assignor to the Firm Meier & Weichelt, Leipzig-Lindenau, Germany. Filed Nov. 3, 1925, Serial No. 66,662, and in Germany May 13, 1924. 6 Claims. (Cl. 148—1.)

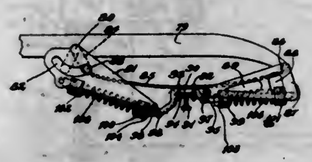
4. The process of producing grey iron comprising melting iron having a high silicon content and rapidly cooling the same, the silicon content being chosen in proportion to the chosen rate of cooling.

1,689,457. ELECTRIC LAMP. JOHN W. SENGER, JAMES REED, and THOMAS EUGENE MOORHEAD, Cleveland, Ohio. Filed Mar. 1, 1926. Serial No. 91,460. 8 Claims. (Cl. 240—10.5.)



1. In a portable electric lamp the combination with a light producing element having a grounded connection, of a body casing, a plurality of sources of electric energy in said casing, a closure for said casing, a partition of insulating material positioned across said closure member and means for selectively connecting any one of said sources of electric energy with the light producing means, comprising spring pressed contact members carried by said insulating partition and engaging a contact of each of said sources, a switchboard having a plurality of contact plugs thereon, electric conductors connecting said plugs with said spring contacts, a switch for selectively engaging any one of said contact plugs, and an electric conductor leading from the switch to said light producing means.

1,689,458. VEHICLE SPRING. SUMNER S. SHEARS, Brooklyn, N. Y., and EDGARTON ROLAND WILSON, Peterboro, Ontario, Canada; said Wilson assignor to said Shears. Filed Nov. 18, 1922. Serial No. 601,823. 9 Claims. (Cl. 267—28.)

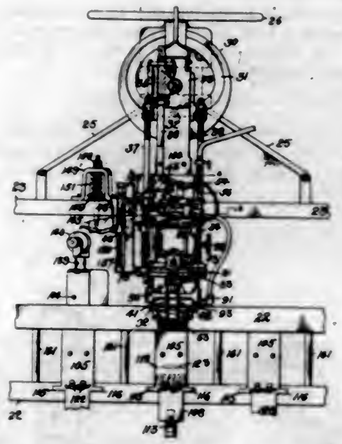


1. Vehicle springs comprising flexible metal supports secured to the vehicle frame and axle, bell crank levers fulcrumed to the vehicle frame, pivoted links connecting said levers to the axle, and coil springs pivotally connected to the levers and axle to carry the vehicle load.

1,689,459. HEEL-BUILDING MACHINE. WILLIAM E. SMALL, Brooklyn, N. Y. Filed June 19, 1925. Serial No. 38,190. 29 Claims. (Cl. 12—50.)

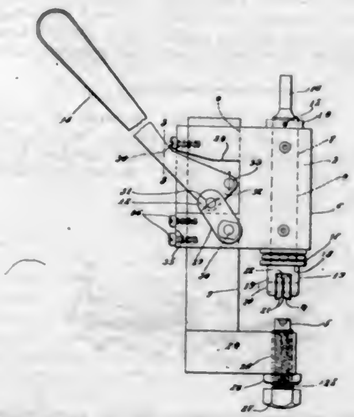
1. The combination in a heel building machine, of a pair of members, one being movable with respect to the other, receiving units on said movable member for lifts

of heels to be built and each including a key element for centering the respective lifts, a movable frame carried by the other member, means for advancing the movable member to dispose the various receiving units successively



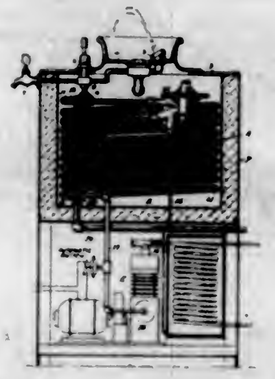
beneath the frame, means carried by the frame for pressing each lift on the key of the unit therebeneath, and a power element for actuating said frame to move it toward and away from each receiving unit.

1,689,460. RIVET-SPINNING ATTACHMENT. WALTER STUMPF, Baltimore County, Md., assignor to The Black and Decker Manufacturing Company, Towson, Md., a Corporation of Maryland. Filed Nov. 6, 1925. Serial No. 67,264. 4 Claims. (Cl. 78—48.)



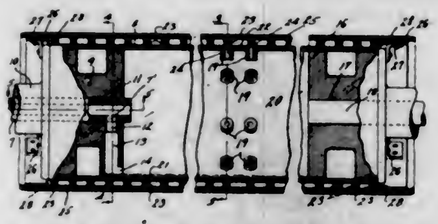
1. A rivet spinning attachment for a portable, power-driven, rotary tool, the attachment consisting of a spindle having one end adapted to be connected to a rotary portion of the tool the other end being adapted to support a rivet spinning bit, a work support, a sliding bar on which said support is mounted in alignment with the spindle, a bearing for the sliding bar parallel to the spindle, means including a thrust bearing mounted on the spindle supporting said bearing for the sliding bar, and means for actuating the sliding bar to compress the rivet between the work support and the tool.

1,689,461. APPARATUS FOR COOLING LIQUIDS. HALSEY W. TAYLOR, Warren, and JAMES T. SMITH, Cleveland, Ohio; said Smith assignor to The Halsey W. Taylor Company, Warren, Ohio, a Corporation of Ohio. Filed June 30, 1927. Serial No. 202,553. 8 Claims. (Cl. 62—141.)



1. An apparatus for cooling drinking water, comprising a chambered body having a drinking fountain at its top, and a cooling coil confined within said chambered body comprising two pipes sleeved one within the other and spaced apart to provide a water passage having an outlet connected to said drinking fountain, the inner pipe having intake and outlet connections at its opposite ends for a refrigerating fluid.

1,689,462. CONDENSATION EXHAUSTER FOR IRONING MACHINES AND THE LIKE. CLARENCE E. TROTTER and FORREST J. COUCH, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 23, 1927. Serial No. 208,019. 4 Claims. (Cl. 68—9.)



1. In a machine of the class described, a heated bed, a rotatable ironing roll spaced therefrom, a cylindrical pervious padding encasing said roll and spaced therefrom to provide an annular cylindrical chamber between the padding and the roll, supporting means for said padding providing openings completely around and at both ends of the roll to establish communication between the annular chamber and the atmosphere, and air and moisture conducting means connected with said chamber in a zone at the center of the length of the roll through which air may be exhausted from said chamber.

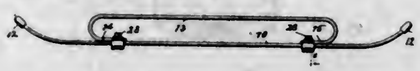
1,689,463. METAL ROLLING. JOHN B. TYTUS, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Apr. 8, 1925. Serial No. 21,661. 14 Claims. (Cl. 29—18.)

14. A continuous process of sheet rolling which consists in passing a heated pack through successive stands of rolls for single engagement by each stand, passing the pack through a furnace between two at least of said stands, and manipulating the pack to separate and align the pieces forming the pack with each other and with the



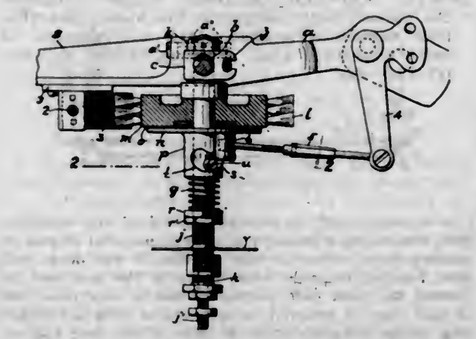
line of feed from stand to stand, in the open intermediate the furnace and at least one of the stands between which the furnace lies.

1,689,464. AUTOMOBILE BUMPER. GEORGE W. VEALE, Cleveland, Ohio, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 16, 1928. Serial No. 247,109. 6 Claims. (Cl. 293—55.)



6. As a new article of manufacture, a clamping device comprising a stamped sheet-metal member provided with a pair of marginal flanges, each of which has an extension projecting between said flanges, a nut on the interior of said member engaging said extensions, and lugs on said extensions bent around said nut to secure it to said extensions.

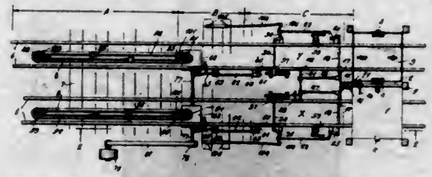
1,689,465. LOOPER FOR HOSIERY. MYER L. VICTORIUS, New York, N. Y. Filed Dec. 14, 1923. Serial No. 680,618. 3 Claims. (Cl. 112—26.)



1. In a thread end removing device for looping machines, a support adapted to be connected to the looping machine, a brush carried by the support, a comb carried by the support and in engagement with the brush, means for oscillating the brush, a guard pivotally secured to the support and adapted to overlie the brush, and means carried by the guard and adapted to bear on the rotating table of the looping machine whereby the guard will be supported.

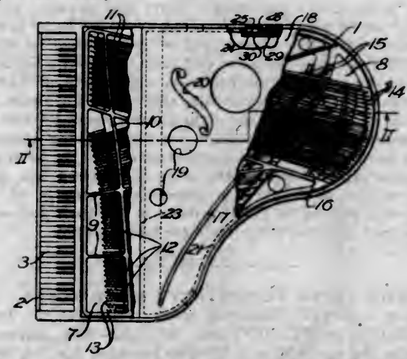
1,689,466. CAR-CAGING DEVICE. THOMAS E. WEETHEE, Dacono, Colo., assignor of one-half to The Consolidated Coal and Coke Company, Denver, Colo., a Corporation of Colorado. Filed Sept. 15, 1927. Serial No. 219,665. 7 Claims. (Cl. 214—126.)

1. A caging device comprising, in combination, a pair of interconnected cages adapted to move simultaneously, in opposite direction, between vertically separated levels, two spaced tracks on the lower level, said tracks being adapted to support a plurality of cars, a car stop associated with each track, means operated by the downward movement of each cage for moving the stop associated with the corresponding track to inoperative position whereby a car is permitted to pass along the track towards the cage, means operated by the car as it moves towards the cage for moving the stop to operative position and means



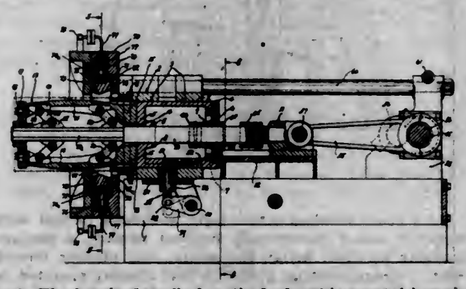
operated by the car as it moves towards the cage for rendering the cage controlled stop operating means inoperative for again removing the stop until the other cage has been at its lowermost position.

1,689,467. GRAND PIANO. WALTER WEISER, Chicago, Ill. Filed Apr. 30, 1927. Serial No. 187,732. 6 Claims. (Cl. 84—189.)



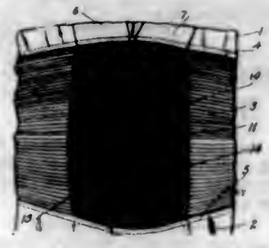
2. In a grand piano of the type described, a casing having openings in the rim thereof, a sound box mounted therein having openings in the top sound board thereof and a plurality of openings in the rim registering with the openings in the case rim, slotted screens mounted in the case rim openings, shutters slidably mounted in the sound box to permit regulation of the registering openings in said sound box rim and in the piano case rim, and means connected with said shutters projecting through said slotted screens to permit the shutters to be adjusted from the exterior of the piano case.

1,689,468. BARREL, METHOD OF AND MACHINE FOR MAKING THE SAME. HARRY C. WILCOX, West Allis, Wis., assignor to Pressed Steel Tank Company, West Allis, Wis., a Corporation of Wisconsin. Filed Jan. 13, 1927. Serial No. 160,828. 37 Claims. (Cl. 113—48.)



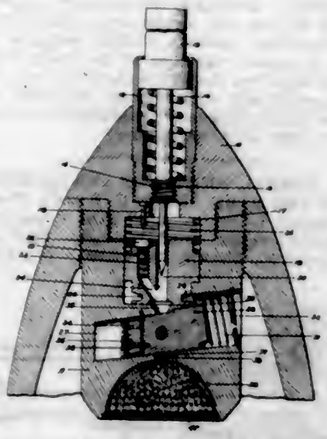
1. The herein described method of making metal barrels which consists of expanding the central portion of an open ended metal shell beyond the original diameter thereof and reducing it at its end portions to less than the original diameter.

1,689,469. GARMENT. CLAIR G. WRIGHT, Kansas City, Mo., assignor to Ely & Walker Dry Goods Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 15, 1925. Serial No. 2,569. 1 Claim. (Cl. 2—78.)



In a garment comprising a shirt and drawers and a band connecting the shirt and drawers, the band having its wales extending transversely of the garment to afford elasticity between the shirt and drawers, a strip approximately the width of the band spanning the band, having its ends connected with the shirt and with the drawers and having its edges free, the strip having its wales extending parallel with those of the band and having diagonal cross threads permitting limited expansion of the band and whereby expansibility of the strip is rendered less than that of the band, thereby preserving elasticity of the band and tending to permit return of the band and strip to normal position after each stretching action.

1,689,470. BORE SAFETY DEVICE FOR FUSES. ARTHUR ADELMAN, Chesaning, Mich. Filed Feb. 20, 1925. Serial No. 10,564. 13 Claims. (Cl. 102—39.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. A fuse including a fuse body, said body formed with a cavity and a transversely inclined passage, a plunger movably mounted within the cavity, said plunger formed with a circumferential groove, a bolt slidably mounted in the passage, a hooked extension on said bolt for engaging the groove of the plunger, a firing element carried by the bolt, and a centrifugally moving locking member whose center of gravity is shifted on set back, to permit functioning to release the bolt.

1,689,471. ILLUMINATED MIRROR, ALBUM, AND CLOCK. JOHN A. ANDRUSIS, Brooklyn, N. Y. Filed Jan. 27, 1928. Serial No. 249,977. 4 Claims. (Cl. 240—4.)



1. A device of the class described comprising a mirror having openings formed therein by removing portions of the coating, one of these openings forming a clock dial, pictures placed in the other openings, a clock attached to the mirror and having its arbors passing through the dial portion thereof with the hands on the arbors arranged in front of the dial part and means at the rear of the mirror for illuminating the dial and pictures.

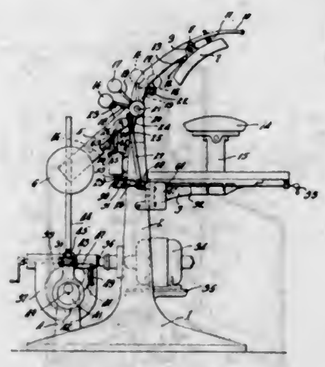
1,689,472. METALLIC CAR DOOR. ALLAN S. BARROWS, Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 1, 1925. Serial No. 59,753. 8 Claims. (Cl. 189—46.)



1. A sheet metal car door having a door edge construction, comprising a plurality of plies of material of greater number than the main body portion of the door, said plies forming the edge construction of the door and including the main body portion as one of said plies, one of said plies of material being provided with a corrugation spaced inwardly from the edge of the door and extending along said door adjacent said edge; and a reinforcing edge member of angular formation secured to the door along that portion located outwardly of said corrugation and extending substantially parallel with said corrugation, said angular member having an angular portion extending outwardly substantially at right angles to the main body portion of the door, and another angular portion secured to and lying flatwise against the face of the door.

1,689,473. PRESSING MACHINE. BLUFORD W. BROCKETT, Cleveland Heights, Ohio, assignor, by direct and mesne assignments, of one-half to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio, and one-half to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 29, 1926. Serial No. 84,655. 3 Claims. (Cl. 68—9.)

1. A pressing machine comprising a stationary work support, a head and head lever structure counterbalanced to be free of any normal tendency to move to closed or open position, operator energized motor means capable of energization by the operator independently of head movement and arranged for actuation by the operator to be made effective upon the head for closing the press, and power



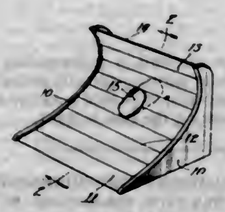
means including a controller operatively connected to said head, said power means being effective upon said head for producing final heavy pressure when the press is closed.

1,689,474. CUTTING TOOL FOR LATHES, PLANERS, ETC. WALTER BROWN, Toledo, Ohio. Filed Dec. 12, 1921. Serial No. 521,603. Renewed June 18, 1928. 3 Claims. (Cl. 29—98.)



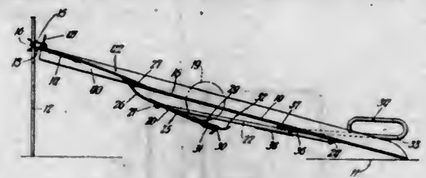
1. The combination with a tool holder member having a tapering socket, of a removable cutting tool member having a correspondingly tapered shank for frictionally engaging said socket, and an integral cutting portion extending transversely of said shank, one of said members having a series of angularly arranged recesses and the other member having a projection alternatively engageable with said recess to angularly position the cutting tool with respect to said holder.

1,689,475. PUTTING GAME. WILLIAM C. BRUMDER, Milwaukee, Wis. Filed July 31, 1922. Serial No. 578,661. 5 Claims. (Cl. 273—36.)



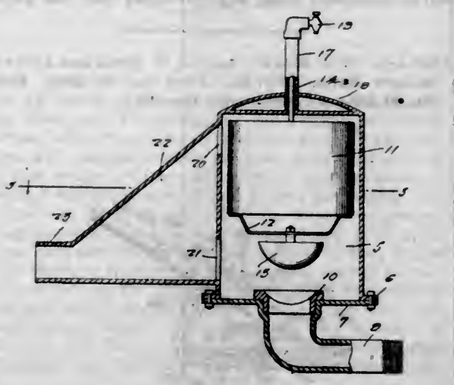
1. Game apparatus of the character described comprising a runway having an upwardly inclined portion and a recurved portion joining said upwardly inclined portion, and a pocket in said runway above the bottom of said inclined portion.

1,689,476. BALL-RETURNING GOLF APPARATUS. WILLIAM C. BRUMDER, Milwaukee, Wis. Filed Aug. 15, 1923. Serial No. 657,529. 7 Claims. (Cl. 273—36.)



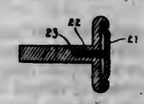
1. In a ball returning golf apparatus of the character described, an inclined runway having an opening therein, said opening being adapted to receive a golf ball rolled along said runway, means for supporting said ball within said opening, and means for ejecting said ball from said opening to return it to the players.

1,689,477. AIR TRAP FOR PIPE LINES. ISAAC LEONIDAS CAPERS, Eastland, Tex., assignor to Charles Edgar Capers, Amarillo, Tex. Filed Sept. 7, 1927. Serial No. 218,085. 1 Claim. (Cl. 137—68.)



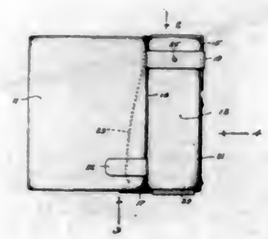
In an automatic cut off for pipe line comprising an air trap having a trap chamber provided with an air discharge port in its upper end, a pipe line connection at its lower end, a pair of intake ports one adjacent each end, an offset formed at one side of the trap adapted to provide communication between the supply tank and each of said intake ports, a float arranged in the chamber, a valve carried at its upper end controlling communication with said air discharge port and a valve at its lower end controlling communication with said pipe line, said valve being disposed for opposite actuation upon the opposite movement of the float, said air discharge port also being provided with the manually operable valve permitting closure thereof under certain predetermined conditions.

1,689,478. ATTACHMENT FOR DENTAL BRIDGE-WORK. HERMAN E. S. CHAYES, New York, N. Y., assignor to Chayes Dental Instrument Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 17, 1924. Serial No. 756,410. 12 Claims. (Cl. 32—12.)



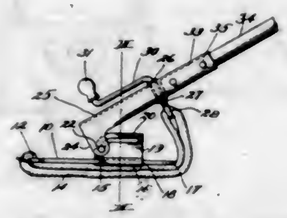
5. A T-head attachment for the purpose set forth, having a separate wear plate removably carried on the outer face of the head.

1,689,479. ATTACHABLE MATCH BOX. DONALD V. CONKLIN, Alhambra, Calif. Filed Jan. 24, 1927. Serial No. 162,958. 5 Claims. (Cl. 206—31.)



1. In an attachable match box: a match receptacular element; a metallic frame secured thereabout; and means for removably securing said frame to a package of cigarettes comprising a back plate carrying an outwardly and downwardly dependent finger and rearwardly bent side plates.

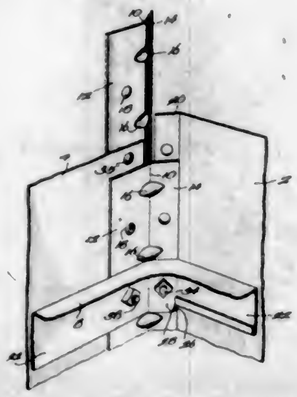
1,689,480. MOP HEAD. SAMUEL W. FRIES and ERVIN E. MALOTT, Kansas City, Mo. Filed Mar. 29, 1926. Serial No. 98,212. 4 Claims. (Cl. 15—120.)



1. A mop and wringer structure comprising a mop head frame having a bracket element, a ferrule member having a connection slidingly engaging said bracket element and permitting said frame to swing into depending relation to said ferrule at one of the limits of said sliding movement, means preventing relative sliding movement of said ferrule and bracket elements at the other limit of said movement, a mop cloth attached to said frame, and a wringer device journaled in said ferrule and also attached to said mop cloth and operative to wring the same when said frame is in depending position.

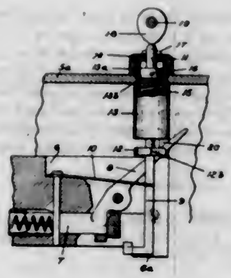
1,689,481. SHELVING. CLARENCE E. GEBBERICH, Aurora, Ill., assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill., a Corporation of Illinois. Filed Jan. 15, 1927. Serial No. 161,303. 15 Claims. (Cl. 211—136.)

1. A plurality of connected unit stacks of rectangular shape, the adjacent corners of the connected stacks each having a vertical corner strip providing flanges disposed at an obtuse angle, corresponding flanges being arranged back to back with a common stack plate therebetween, said flanges, plate and shelf members of each stack being fastened together by means passing therethrough, the other flanges extending flaringly outwardly to form beveled corners and an exterior plate having a flange overlapping the flaring flange of each strip and fastening means passing through said overlapping flange, the flange of the strip, and



through a shelf member of such beveled corner, said fastening member last mentioned lying within the planes of projection of the exterior plates of adjacent stacks.

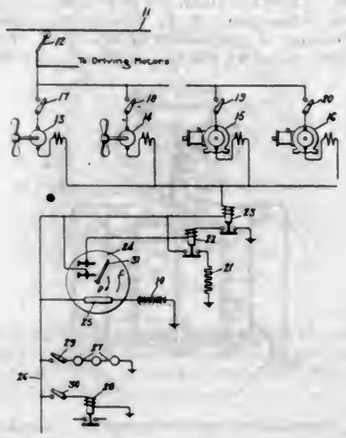
1,689,482. MACHINE-GUN UNIT. SAMUEL G. GREEN, Gray, Ga. Filed Jan. 18, 1926. Serial No. 82,121. 20 Claims. (Cl. 89—27.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



16. In a machine gun unit, a reciprocating sear, a rectilinearly movable sear actuator directly engaging the sear, a cam member engageable with said actuator and a motor driven shaft for rotating the cam member.

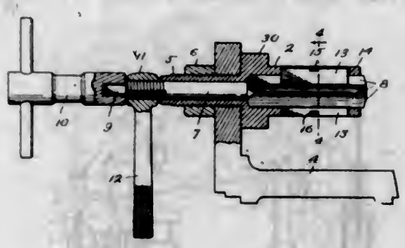
1,689,483. STORAGE-BATTERY-CHARGING SYSTEM. WILLIAM S. H. HAMILTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 25, 1925. Serial No. 11,552. 10 Claims. (Cl. 171—313.)

1. A charging system for an electric storage battery comprising a variable current charging circuit for the battery, automatic means responsive to the current in the said charging circuit, independently operable automatic means responsive to the condition of charge of the battery, and means jointly controlled by said automatic means for decreasing the charging current of the battery only when



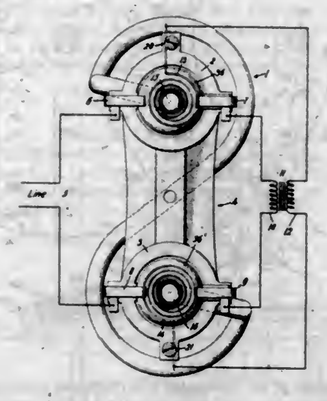
both the current in the charging circuit exceeds a predetermined value and the battery is charged to a predetermined condition.

1,689,484. EXPANDING MANDREL. WILBUR J. HEMPY, Kansas City, Mo. Filed July 6, 1925. Serial No. 41,709. 1 Claim. (Cl. 77—62.)



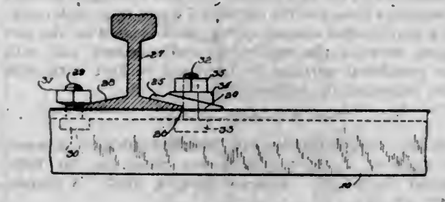
A device of the character described consisting of a tubular member having an axial shank adapted to be threaded in a support and provided with a peripheral shoulder for abutting one side of said support, a jam nut threaded upon said shank and adapted to abut the opposite side of the support and coact with said shoulder in holding the tubular member stationary, a rotary member extending through the axis of the tubular member and projecting from one end of the latter to receive a wrench whereby it can be rotated, peripheral ribs arranged within the tubular member and integral with and extending longitudinally of said rotary member, a longitudinal side of each rib being curved, blades bearing against said curved sides and adapted to be adjusted outwardly through guide slots in the tubular member when the rotary member is rotated in one direction, a handle including a lock nut threaded upon the projecting end of the rotary member and adapted to be adjusted into engagement with the adjacent end of the tubular member and coact with the adjacent ends of the ribs in locking said rotary member, and spring means for yieldably holding the blades in engagement with the ribs.

1,689,485. CURRENT-SUPPLY SYSTEM. WILLIAM F. HENDRY, Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc., a Corporation of Massachusetts. Filed May 12, 1927. Serial No. 190,804. 12 Claims. (Cl. 176—14.)



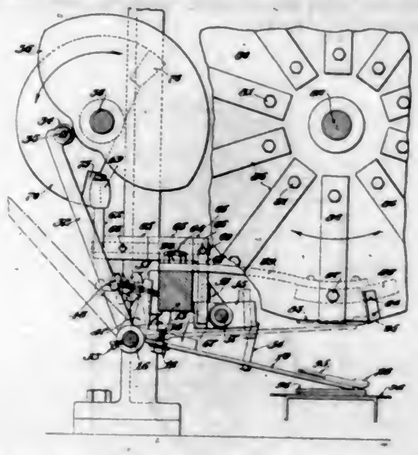
10. An electric lighting arrangement comprising an electrical discharge tube having two end portions, a contact terminal attached to each of said end portions and connected with electrodes inside the tube, metallic sleeves on said tube, a pair of sockets for receiving said end portions, a contact spring on each of said sockets for making connection with each of said terminals, a pair of contact springs on each of said sockets so positioned as to press against said metallic sleeves when the tube is fully seated in the socket, a transformer for supplying current to said tube, one side of the primary thereof being connected in series with one of said pairs of contacts and the other side of said primary being connected in series with the other of said pairs and the secondary of said transformer being connected to the terminals on the said end portions of the tube.

1,689,486. COMBINATION TIE AND RAIL FASTENING. JAKOB HOJNOWSKI, Nekoosa, Wis. Filed Feb. 1, 1928. Serial No. 251,077. 4 Claims. (Cl. 238—60.)



1. In a device of the class described, a metal tie comprising a grooved top plate, depending side flanges on said plate to form a space for the reception of the road bed material, means formed by the grooves to firmly hold the tie in place in said material, a centrally located saddle formed by the grooves on said top plate, said saddle adapted to be engaged by the rail fastening means, and a means for firmly locking the parts in their relative adjusted positions.

1,689,487. HEEL-LIFT-DEPOSITING MECHANISM. LESLIE A. HOLMAN, Waltham, Mass. Filed Jan. 12, 1926. Serial No. 80,800. 19 Claims. (Cl. 12—50.)



1. In a device of the character described, the combination of a pair of co-operating jaws mounted for a vertical reciprocating motion through an arc of a circle, and means for opening and closing said jaws transversely to said reciprocating motion to grip and release heel lifts.

1,689,488. LIGHTING FIXTURE AND THE LIKE. DONALD HOLT, Chicago, Ill. Filed Sept. 30, 1927. Serial No. 223,084. 4 Claims. (Cl. 287—14.)



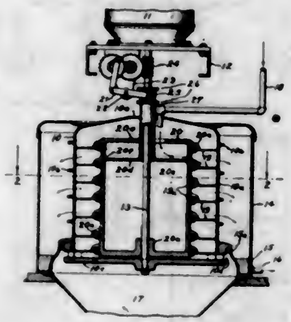
4. As a new article of manufacture a swivel joint for the purpose specified comprising in combination a pair of members rotatable with respect to each other, a hub member on which they are journaled, means in conjunction with the end portions of said hub member serving to retain the members on the hub member and also serving to prevent the members from moving outwardly away from each other, and a pair of dish shaped spring disks located on the hub member between the first mentioned members and with their peripheral portions in frictional contact with each other, substantially as described.

1,689,489. TEMPERED-AIR DIRECTIONER. ADOLPH J. JANECEK, Cedar Rapids, Iowa. Filed Oct. 30, 1925. Serial No. 65,720. Renewed Nov. 4, 1927. 5 Claims. (Cl. 98—2.)



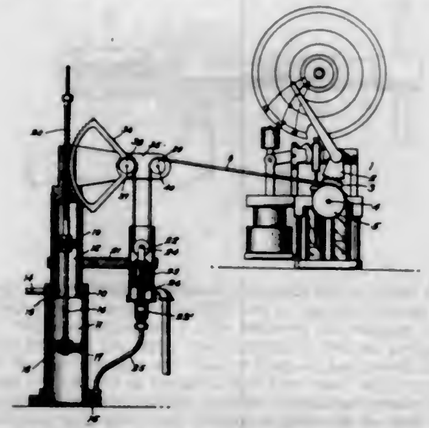
1. In an automotive vehicle, the combination with the vehicle controlling foot pedals and an operating stud, of a heat distributor mounted at one side of said pedals and enclosing said stud, an extension stud extending through said heat distributor into engagement with said operating stud, said heat distributor forming a support for the foot of the driver.

1,689,490. CENTRIFUGAL EXTRACTOR. CHARLES A. KELSEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 10, 1927. Serial No. 239,100. 5 Claims. (Cl. 210—68.)



1. A centrifugal extractor comprising a receptacle having a perforated side wall, means for rotating said receptacle, a feeding element adjacent the side wall of said receptacle, means for supporting said element, and means for moving said support so that said element moves back and forth along the side wall of said receptacle, said supporting means being arranged so that said element moves away from said side wall when said supporting means is moved in one direction.

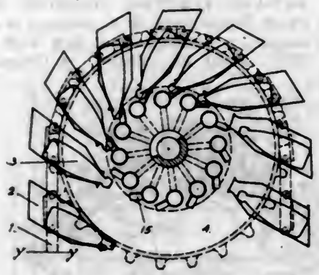
1,689,491. PROPORTIONAL-FEED CONTROLLING APPARATUS. PAUL LANHAM, Lanham, Md. Filed Dec. 20, 1926. Serial No. 155,935. 5 Claims. (Cl. 137—78.)



1. The combination of a meter for mensuring the rate of flow of a fluid, a motor for operating a material feed control device, and mechanical connections between the meter and the motor to effect the actuation of the latter proportionately to the rate of flow indicated by the meter.

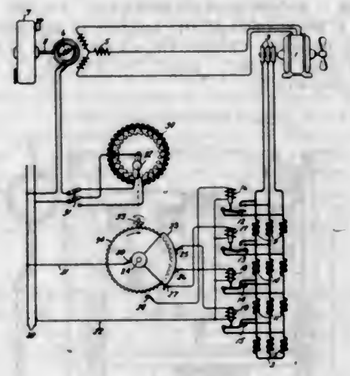
1,689,492. BOTTLE-RINSING MACHINE. SVEN ERIK LANNMARK, Stockholm, Sweden. Filed Oct. 18, 1927. Serial No. 227,017, and in Sweden Oct. 19, 1926. 2 Claims. (Cl. 141—7.)

1. Bottle washing apparatus, including a conveyor chain having uniformly spaced bottle receiving pockets, said conveyor including a rinsing sprocket wheel comprising a rotatably mounted nave, spaced tubes arranged about said nave parallel to the axis thereof and being provided with parts



adapted to register with and discharge into the mouths of the bottles entrained about said sprocket, and means for supplying fluid under pressure to said tubes, substantially as set forth and shown.

1,689,493. POWER SYSTEM. CAMPBELL MACMILLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 3, 1925. Serial No. 34,684. 10 Claims. (Cl. 172—237.)



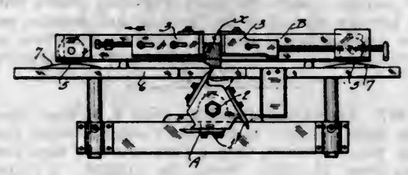
1. The combination of an induction motor comprising primary and secondary circuits, an alternating current generator comprising a field circuit and an armature circuit interconnected with said primary circuit, means for controlling the resistance of said secondary circuit, means for controlling the excitation of said field circuit, and means independent of the electrical characteristics of said generator and said motor for correlating the operation of said resistance and excitation control means in a manner to cause an abrupt change to be produced in the excitation of said field circuit prior to a change in the resistance of said secondary circuit.

4. The method of operating a power system comprising an alternating current generator interconnected with an induction motor which comprises abruptly changing the excitation of said generator, abruptly changing the secondary resistance of said motor, and gradually changing the excitation of said generator as the speed of said motor changes due to said change in secondary resistance.

5. The method of operating a power system comprising an alternating current generator interconnected with an induction motor which comprises abruptly decreasing the excitation of said generator, abruptly decreasing the secondary resistance of said motor, and gradually increasing the excitation of said generator as said motor accelerates due to said decrease in secondary resistance.

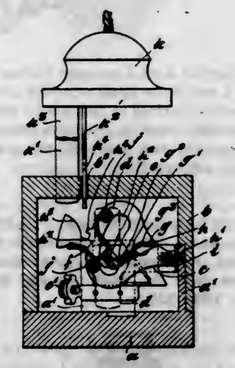
10. The method of operating a power system comprising an alternating current generator interconnected with an induction motor which comprises abruptly changing the secondary voltage of said motor and abruptly changing the excitation of said generator a sufficient interval of time prior to said change in secondary voltage to eliminate objectionable fluctuations in the electrical conditions of said system.

1,689,494. HEEL-BLANK-GROOVING MACHINE. DAVID O. MARSHALL, St. Louis, Mo., assignor to Mound City Wood Heel and Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed May 14, 1927. Serial No. 191,443. 4 Claims. (Cl. 12—47.)



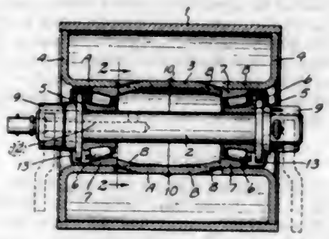
1. A machine for grooving heel blanks, comprising a rotatable cutter and a heel blank carrier adapted to move relatively to each other so as to cause the cutter to form a transverse groove in the breast portion of the blank, and means for producing relative rocking movement in an arc between the blank and the cutter during the grooving operation in a direction to form a breast face whose vertical center line is located at a point in advance of the side edges of said breast face.

1,689,495. ELECTRIC SWITCH. FRANK MCELROY, Manchester, England, assignor to J. H. Tucker & Company, Limited, Birmingham, England. Filed Aug. 9, 1926, Serial No. 128,307, and in Great Britain Nov. 3, 1925. 6 Claims. (Cl. 200—51.)



1. In an electric switch of the plug type, plug pins constituting removable contacts of the switch, circuit completing means comprising members movable into and out of the path of movement of the plug pins, and means whereby withdrawal of the plug removes the circuit completing means of the switch from the path of the plug pins.

1,689,496. CONVEYER ROLLER. WHITLEY B. MOORE, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 2, 1925. Serial No. 12,628. 1 Claim. (Cl. 308—208.)



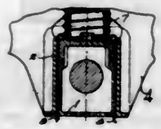
A shaft, a hollow roller rotatably mounted thereon, a tubular member extending through said roller, and conical roller bearings comprising cones, cups and rollers interposed between said shaft and said tubular member, said tubular member having portions struck up therefrom and constituting abutments for the cups of said roller bearings.

1,689,497. VACUUM CLEANER. JOHN F. MORGAL, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed Sept. 13, 1927. Serial No. 219,330. 2 Claims. (Cl. 15—10.)



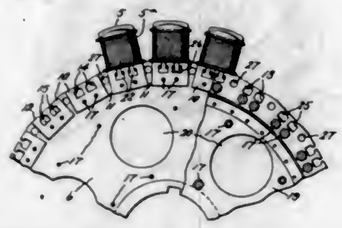
1. The combination with a vacuum cleaner having a suction nozzle and a motor the shaft of which projects into said nozzle, of an endless carrier in the nozzle which carrier extends over said shaft and is moved longitudinally of the nozzle by said motor, and nap disturbing and separating means carried by said carrier.

1,689,498. JOURNAL-BOX WEAR PLATE. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Nov. 23, 1925. Serial No. 70,923. 6 Claims. (Cl. 105—225.)



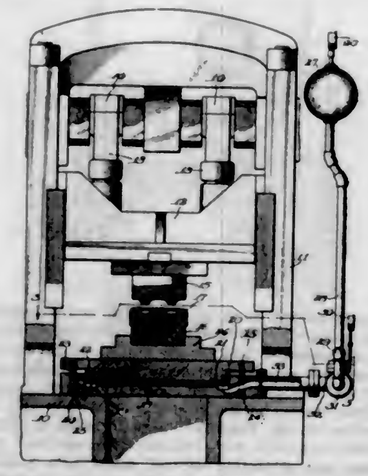
1. As a new article of manufacture, a one-piece wear plate adapted to be applied to and removed from a standard A. R. A. journal box for railway trucks to prevent contact between the sides of the box and the truck pedestal, said plate including means for engaging the top and both sides and the bottom of the box so that they move together n the pedestal.

1,689,499. DYNAMO-ELECTRIC-MACHINE ROTOR. HENRY G. REIST, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 17, 1927. Serial No. 169,046. 8 Claims. (Cl. 171—252.)



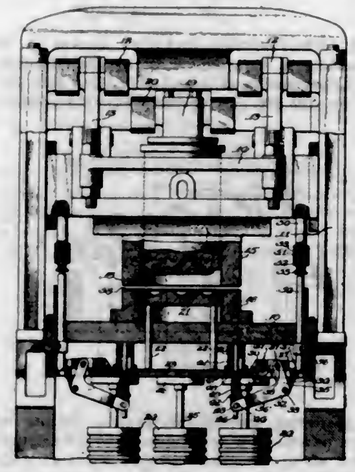
1. In a dynamo-electric machine, a rotor including a shaft, laminations carried by said shaft, means adjacent thereto for spacing laminations longitudinally thereof, said laminations being slotted adjacent their periphery, means interposed between said laminations adjacent their periphery having slots conforming with the slots in said laminations to form continuous grooves axially of said rotor, means for clamping said laminations together, and pole pieces extending into said grooves.

1,689,500. SHEET-METAL-WORKING PRESS. FREDERICH J. RODE, Chicago, Ill., assignor to Marquette Tool & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed June 2, 1927. Serial No. 195,895. 6 Claims. (Cl. 113—46.)



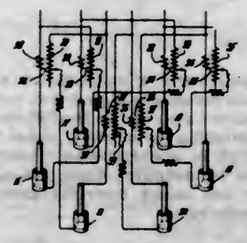
1. A press for drawing sheet metal and the like embodying a bed, a movable supporting member forming with said bed a piston and cylinder unit, a die anchored rigidly to said supporting member, and a ram reciprocable with a set throw, said cylinder containing a fluid which resists the movement of the piston and the die that is connected therewith when the latter is subjected to the action of the co-operating die on the ram, the said fluid operating to return the die on the first said movable member to its normal position if it should be moved against said resistance.

1,689,501. MECHANICAL LOCKING DEVICE FOR PRESSURE PADS. FREDRICH J. RODE, Chicago, Ill., assignor to Marquette Tool & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1927. Serial No. 196,792. 15 Claims. (Cl. 113—46.)



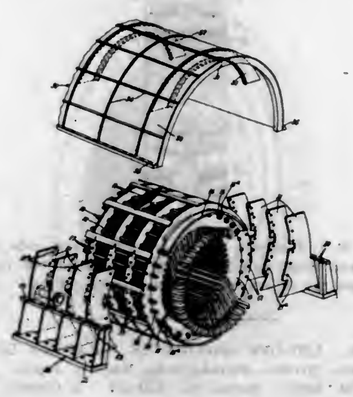
1. A sheet metal working press embodying a pressure pad, means for yieldingly resisting the movement of the pad in one direction, a reciprocable element, a member connected with the said element for movement therewith, the said member having a shoulder adjacent said pad, a spring controlled locking member carried with the pad and adapted to be automatically projected beneath said shoulder to be engaged therewith at the limit of the lower-most movement of the pad for locking the pad against return movement, and spring influenced means rendered active by the movement of the pad in one direction for automatically retracting the said locking member at a predetermined time in the cycle of operation of the press.

1,689,502. RECTIFYING SYSTEM. CAMIL A. SABBAH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 9, 1927. Serial No. 167,021. 7 Claims. (Cl. 175—363.)



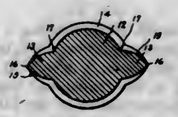
1. The combination of a mercury arc rectifier provided with a cathode and a plurality of anodes and with a grid arranged to control the current of one of said anodes, and means comprising a current transformer arranged to apply to said grid a potential which is dependent on the current of another of said anodes.

1,689,503. STATOR CONSTRUCTION. MARION A. SAVAGE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 20, 1927. Serial No. 199,896. 4 Claims. (Cl. 171—252.)



2. A stator for dynamo-electric machines including an annular structure having laminations supported therein, foot members on each side of said annular structure attached thereto, and a cover structure secured to said foot members and extending in spaced relation about said annular structure to form a ventilating passage for air circulated between the stator laminations.

1,689,504. REENFORCING BAR. JOHN SHEEDY, Seattle, Wash. Filed Sept. 20, 1926. Serial No. 136,455. 1 Claim. (Cl. 72—111.)



In a reenforcing bar, a main bar portion, continuous flanges extending longitudinally along opposite sides of said main bar portion, said flanges having arcuate external surfaces that converge to a point at their extremities and said flanges having relatively wide base portions that form longitudinally extending grooves at the locations where said curved surfaces intersect said main bar portion and continuous ribs arranged at intervals and each extending around said bar and over said flanges in transverse planes.

1,689,505. CAGE FOR ROLLER BEARINGS. HAAKON STYRI, Philadelphia, Pa., assignor to The Skayef Ball Bearing Company, Hartford, Conn., a Corporation of Connecticut. Filed Oct. 8, 1926. Serial No. 140,240. 6 Claims. (Cl. 308—218.)

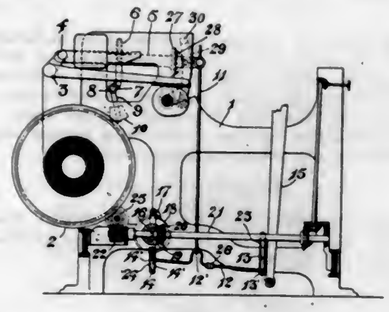
1. The combination with a roller bearing having inner and outer race rings and two rows of rollers, the inner ring having an outwardly directed guiding flange between the rows of rollers, of a sheet metal cage comprising a center part constructed and adapted to conform to and ride upon

the perimeter of the guiding flange, side flanges carried by such center part and projecting outwardly with a laterally flaring formation and constructed and adapted to



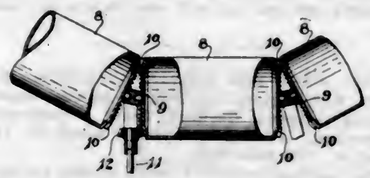
conform to and engage the inner or abutting ends of the rollers, and fingers projecting laterally from the rims of the flanges for interposition between the rollers.

1,689,506. LET-OFF MOTION IN WEAVING LOOMS. KUCHIRO TOYODA, Shirakabecho, Nagoya, Japan. Filed Nov. 24, 1926. Serial No. 150,437. 3 Claims. (Cl. 139—110.)



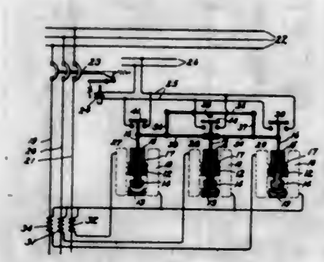
1. In a loom, a let-off device having a positive drive, a back rest, an arm securely connected to said back rest, means for moving said arm, a weighted lever pivoted in an inclined position to the frame and adapted to be oscillated according to the movement of the said arm, means for varying the angular position of the said lever according to the change of the position of said back rest to vary the effective position of the weight, and means for increasing the speed of the drive as the diameter of the beam decreases, whereby a uniform tension upon the warps is maintained.

1,689,507. TAKING-UP DEVICE FOR CIRCULAR LOOMS. SAKICHI TOYODA, Nagoya, Japan. Filed Jan. 10, 1928. Serial No. 245,641. 1 Claim. (Cl. 139—16.)



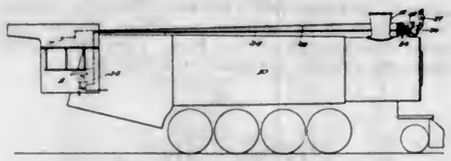
A taking-up device for a circular loom, wherein a plurality of propelling rollers are arranged above the beating part of the loom and are connected to each other to form a polygonal unit, each roller being provided at both ends with bevel gears meshing with those of the adjacent rollers, and a driving shaft is operatively connected to at least one of said propelling rollers so as to cause simultaneous rotation of all propelling rollers, whereby the tubular fabric engaging with said polygon of propelling rollers is positively propelled toward the taking-up rollers.

1,689,508. PROTECTIVE DEVICE. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 14, 1924. Serial No. 725,870. 14 Claims. (Cl. 175—294.)



1. A protective system for electric circuits wherein means are provided for interrupting the circuits upon the occurrence of an abnormal circuit condition, comprising in combination with said circuit interrupting means, a relay including a plurality of armatures, a plurality of windings connected respectively to said circuits for respectively controlling said armatures, said armatures being mechanically interconnected and arranged to balance the forces exerted by said windings on the respective armatures when said windings are equally energized, and means for restraining each armature against the operating force exerted by the other armature or armatures, said restraining means being arranged to exert an effect proportional to the energization of the corresponding winding.

1,689,509. DEVICE FOR CONTROLLING AND OPERATING LOCOMOTIVE WHISTLES. HARRY VISSERING, Kenilworth, Ill. Filed Mar. 27, 1926. Serial No. 97,991. 9 Claims. (Cl. 105—37.)



1. The combination of a locomotive, a steam whistle, a casing to which the whistle is connected, mounted directly upon the locomotive shell and in front of the smoke-stack, a valve for controlling the supply of steam to operate the whistle, mounted in said casing, a connection disposed within the shell for delivering steam into said casing and to said valve, and means controlled from the cab for opening the steam valve.

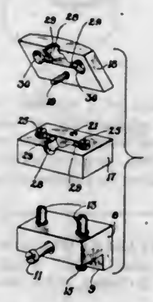
1,689,510. CLOSURE SEAT FOR METALLIC CONTAINERS. LOUIS B. WACKMAN, St. Louis, Mo. Filed Nov. 16, 1925. Serial No. 69,292. 6 Claims. (Cl. 220—39.)

1. A sheet metal container having an aperture formed in one of its walls, a closure seat having an interiorly threaded body portion located in the aperture of said wall, said wall having a countersunk part formed around the aperture thereof, said body portion of said closure seat having an outwardly extending flange which is seated in



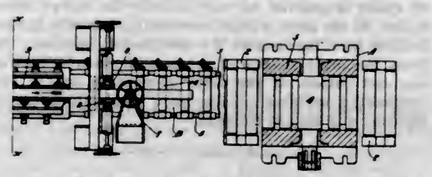
said counter-sunk part, said flange of said body poriton being provided with a plurality of openings, and a plurality of raised portions formed in said wall for engagement with respective openings of said flange.

1,689,511. SWITCH PLUG. WILLIAM J. WISE and THOMAS O. ADAMS, New Philadelphia, Ohio, assignors, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio, a Corporation of Ohio. Filed Jan. 19, 1922. Serial No. 530,293. 1 Claim. (Cl. 173—324.)



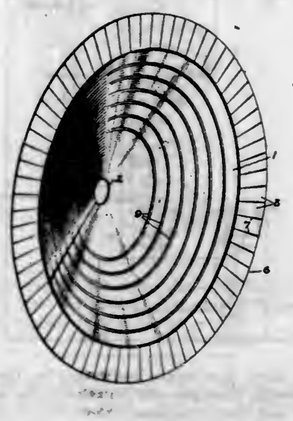
A separable switch plug comprising a fixed insulated block and a movable insulated block, means for attaching the fixed insulated block to a support, terminal pins molded in the fixed block and extending entirely through the same, a binding screw at one end of each terminal pin, a reduced bifurcated shank at the opposite end of each terminal pin, terminal bushings molded within the movable block and arranged to receive said bifurcated shanks and binding screws located at the opposite extremities of the terminal bushings, an insulated cover for the movable block, said cover and movable block being provided with corresponding sockets to receive the supply wires, the axes of the sockets being at right angles to the terminal bushings, a nut molded in the movable block and a screw carried by the cover and arranged to engage said nut.

1,689,512. HOT ROLLING. SAMUEL G. WORTON, Duquesne, Pa. Filed Dec. 19, 1921. Serial No. 523,362. 4 Claims. (Cl. 51—278.)



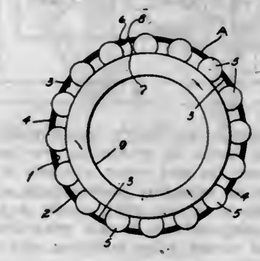
1. The method of removing surface defects from rolled steel articles before final rolling, which consists in grinding off of the side surfaces of said articles having said defects therein while said articles are heated to approximately a rolling temperature.

1,689,513. SOUND-REPRODUCING DEVICE. ARTHUR G. ZIMMERMAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 29, 1927. Serial No. 164,620. 6 Claims. (Cl. 181—32.)



1. In a sound reproducing device, a fibrous, conical diaphragm having a series of spaced circumferential corrugations radially spaced from one another along the conical surface of said diaphragm.

1,689,514. CAGE FOR ROLLER BEARINGS. VIRGIL L. ABEL, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 7, 1927. Serial No. 166,468. 4 Claims. (Cl. 308—217.)

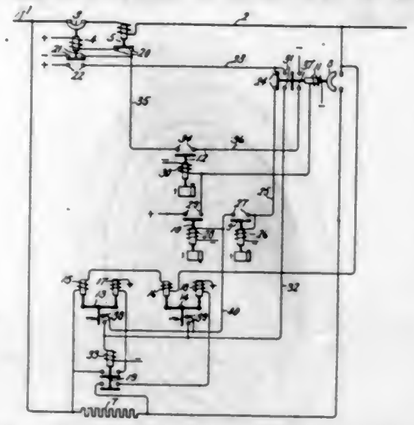


1. A conical cage for roller bearings and the like comprising a perforated strip wrapped on itself to form a cage of double thickness and comprising end rings connected by bridges, the perforations of the inner portion being wider than the perforations of the outer portion, and the bridges of the inner portion of the cage contacting throughout their length with the bridges of the outer portion.

1,689,515. AUTOMATIC RECLOSING-CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 26, 1926, Serial No. 90,950. Renewed June 29, 1928. 11 Claims. (Cl. 175—294.)

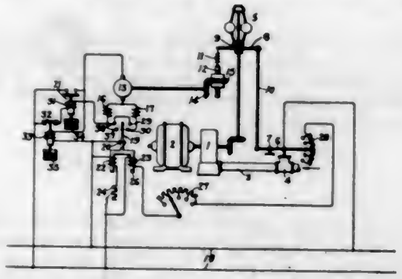
1. In an automatic reclosing circuit breaker system, two electric circuits, a circuit breaker for connecting said

circuits together, an impedance, means for periodically connecting said impedance between said electric circuits for a predetermined length of time when said circuit



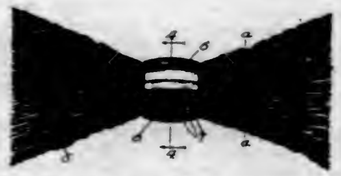
breaker is open, and means controlled by the amount of current flowing through said impedance for effecting the closing of said circuit breaker.

1,689,516. REMOTE-CONTROL SYSTEM. ELMER F. BLISS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 9, 1924. Serial No. 712,171. 2 Claims. (Cl. 175—355.)



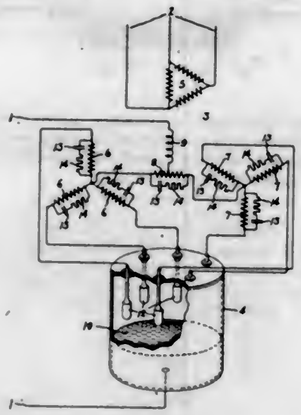
2. In combination, an electric motor which is apt to over-travel, and means for preventing over-travel thereof including a circuit for said motor, contacts in said motor circuit, a relay for actuating said contacts, a circuit for said relay, contacts in said relay circuit, a second relay for actuating said contacts in said relay circuit, and a circuit for said second relay including said contacts in said motor circuit.

1,689,517. BRUSH. GUSTAF V. BRANNSTROM and VERNER J. CARLSON, Chicago, Ill. Filed Aug. 27, 1926. Serial No. 131,844. 2 Claims. (Cl. 15—159.)



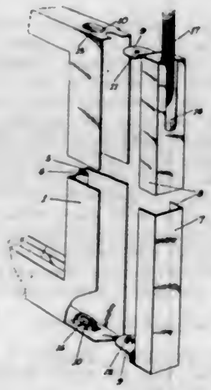
1. A brush consisting of a bunch of elongated crinkled cleaning elements of substantially the same length secured intermediate their ends by a band corrugated lengthwise to securely bind said elements.

1,689,518. RECTIFYING SYSTEM. HERBERT D. BROWN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 5, 1927. Serial No. 166,232. 3 Claims. (Cl. 175—363.)



1. The combination of a rectifier comprising a vaporizable cathode and a plurality of anodes, a transformer comprising secondary windings each connected to a different one of said anodes, and a plurality of damping means each connected in shunt to a different one of said windings.

1,689,519. ADJUSTABLE WINDOW SASH. WILLIAM J. CONNORS, San Jose, Calif. Filed Apr. 18, 1927. Serial No. 184,551. 3 Claims. (Cl. 20—52.3.)

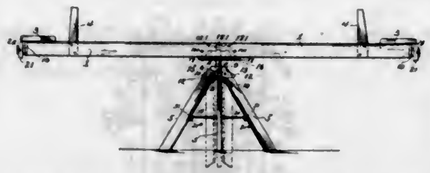


1. In window construction, a sash, one vertical outer edge of which is grooved for substantially the entire transverse extent of the sash, a plate member having side flanges projecting into the groove for horizontal movement to and from the adjacent edge of the sash, horizontal ears on the top and bottom of the plate member to engage the corresponding surfaces of the sash, and adjustment means securing the ears to the sash.

1,689,520. ROUNDABOUT. FRANK H. DICKSON, FRANCIS F. DICKSON, and ADRIAN J. DICKSON, Auburn, N. Y. Filed Dec. 3, 1926. Serial No. 152,469. 1 Claim. (Cl. 272—30.)

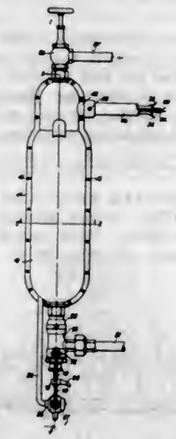
A roundabout comprising a support, a conoidal pivot post rising from the support and having a semispherical upper end, a teeter-board provided with a longitudinal slot

receiving the pivot post, and a saddle secured to the teeter-board and housed within the slot therein over the post, said saddle being in the form of an arch internally chan-



neled and provided in the under side of its crown with a longitudinal series of sockets selectively engageable over the top of the post, the post being housed in the saddle.

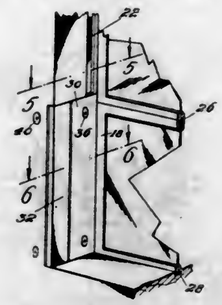
1,689,521. WATER HEATER. MANUEL D. DOMINGUEZ, New Orleans, La. Filed Aug. 15, 1927. Serial No. 213,020. 4 Claims. (Cl. 219—39.)



1. An electrical water heater comprising, in combination, a central electrode connected to one side of an electric circuit, a tube surrounding said first named electrode and having its walls spaced therefrom connected to the other side of the circuit, a shell rigidly and electrically connected to said first named electrode surrounding said tube, a second shell rigidly and electrically connected to said tube and surrounding said first named shell, said shells annularly spaced apart, insulating means to preserve the spacing and alignment of said tube and shells, said tubes having an opening for passage of water at one end thereof, said last named shell having an opening for passage of water at its end opposite said first named passage, said first named shell and said tube also having openings for passage of water at opposite ends whereby to provide a tortuous path for flow of water through the spaces between opposite electrodes.

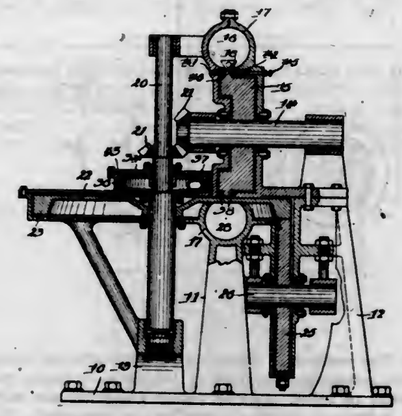
1,689,522. DRAFTLESS VENTILATED WINDOW. JOHN EHARDT and LUDWIG STARK, Chicago, Ill.; said Ludwig Stark assignor to Irene S. Stark, Chicago, Ill. Filed Sept. 21, 1925. Serial No. 57,760. 1 Claim. (Cl. 20—43.)

In combination with a window frame, an upper sash pivotally and slidably mounted in said frame, the upper edge of said upper sash extending substantially to the upper edge of said upper frame when said upper sash is in its uppermost position, a lower sash pivotally and slidably mounted in the frame, supporting slides for the sashes, sheets of transparent material disposed in both sashes, and means for locking said upper and lower sashes in a single slide when in closed position, said locking means comprising a hinged retaining element normally forming



a portion of a slide and adapted for hinged motion to close said slide to lock the sashes, said hinged element secured to the lower portion of said frame.

1,689,523. ROTARY ENGINE. ELOV ERICSSON, St. Paul, Minn. Filed June 6, 1925. Serial No. 35,350. 6 Claims. (Cl. 121—71.)

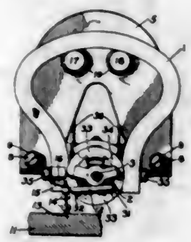


6. The combination with a pair of shafts extending in the same plane at an angle one to the other, of a rotor mounted on one of said shafts, a piston on said rotor adapted to be moved in a circular path, an annular chamber adapted to receive said piston, a disc fixed on the other of said shafts, disposed to intersect said chamber and dividing the same into a power segment and an inert segment, said disc being formed with an opening through which said piston is adapted to pass from one of said segments into another during the rotation of the disc, and a valve for controlling the admission of fluid to said power segment mounted adjacent to said disc on said last mentioned shaft.

1,689,524. ELECTROMAGNETIC PICK-UP APPARATUS. PAUL R. FORTIN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 21, 1924. Serial No. 727,142. Renewed May 4, 1926. 7 Claims. (Cl. 179—1.)

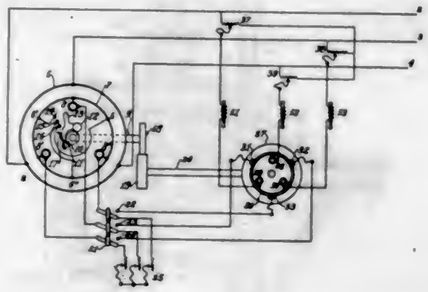
1. In an electromagnetic pick-up device, the combination of a magnet adapted to be disposed in proximity to the sounding board of a musical instrument, an armature pivotally mounted in the field of said magnet, lever means

adapted to transmit the vibrations of said sounding board to said armature to cause said armature to generate a pulsating current, said means comprising a stylus adapted to make contact with said sounding board and a lever



connecting said stylus with said armature, resilient means for maintaining the armature in the field of the magnet and damping means for suppressing the natural frequency of vibration of said lever means.

1,689,525. ASYNCHRONOUS MOTOR. VALÈRE A. FYNN, St. Louis, Mo. Filed Dec. 18, 1925. Serial No. 76,151. 15 Claims. (Cl. 172—280.)

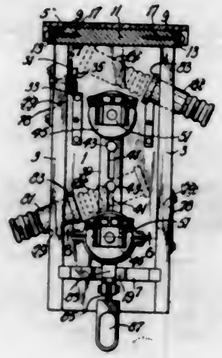


1. The method of operating an asynchronous induction motor comprising, impressing polyphase voltages on the primary to induce working voltages in polyphase working and polyphase exciting paths on the secondary, closing the secondary exciting paths over impedances to start and accelerate the motor, closing the secondary working paths after the motor has reached a speed near its operating speed and in a way to facilitate the formation of working currents in the so formed working circuits, disconnecting the secondary exciting paths from the starting impedances after the secondary working circuits are formed, and thereafter connecting the secondary exciting paths to auxiliary polyphase voltages to produce at least part of the revolving field of the motor from the secondary.

1,689,526. PROCESS OF OBTAINING SODIUM CARBONATE SULPHATE. ALFRED W. GAUGER, Tottenville, and HENRY HERMAN STOSCH, New York, N. Y., assignors to Burnham Chemical Company, Reno, Nev., a Corporation of Nevada. Filed Jan. 9, 1926. Serial No. 80,345. 13 Claims. (Cl. 23—41.)

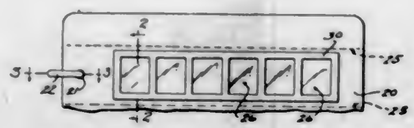
1. The process of obtaining a given salt having a decreasing solubility above a certain temperature from a brine containing the same and other salts having an increasing solubility above the certain temperature which comprises heating the brine out of contact with the atmosphere and above the certain temperature.

1,689,527. SWITCH. WALTER A. HEINRICH, St. Louis, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo. Filed July 27, 1925. Serial No. 46,238. 6 Claims. (Cl. 200—114.)



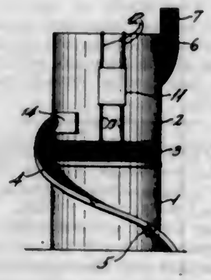
1. A safety switch comprising a box, movable and relatively spaced line terminals therein, insulating members passing through the box and adapted to be applied from within the box, said relatively spaced terminals being adjustably movable without affecting said spacing to permit application of said insulating members.

1,689,528. PROTECTIVE MOUNTING FOR STAMPS OR OTHER OBJECTS. NIELS MARIUS ANDERSEN KJELLERUP, St. Paul, Minn. Filed June 6, 1927. Serial No. 196,838. 6 Claims. (Cl. 129—20.)



2. A protective mounting for stamps and other objects comprising a two-ply leaf having coincident apertures, and a slide removably mounted between the plies of the leaf and having a transparent pocket within the field of said apertures.

1,689,529. RAT OR MOUSE TRAP. ROBERT WESLEY KNAPP, Chester, Ill. Filed May 13, 1927. Serial No. 190,981. 4 Claims. (Cl. 43—65.)



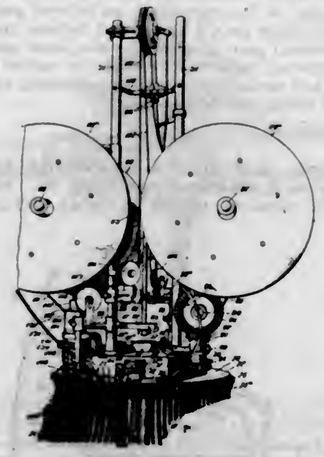
1. A trap including a receptacle and an extension to the receptacle, a portion of said extension having reticulations, an annular trough positioned interiorly of said extension adjacent to said reticulations, and a reticulated incline extending around the outside of said trap and from the bottom of said receptacle to the top of said extension.

1,689,530. CHRISTMAS TREE. BERT A. LANDERS, Los Angeles, Calif. Filed Feb. 28, 1928. Serial No. 257,561. 7 Claims. (Cl. 41—15.)



1. In an artificial tree, a plurality of limbs, each of said limbs comprising a relatively flexible wire wound with cord and having a tinseled cord wound over said cord, a length of tinsel secured adjacent the end of said wire by said cord and other lengths of tinsel secured to said wire by said cord intermediate the length of said wire.

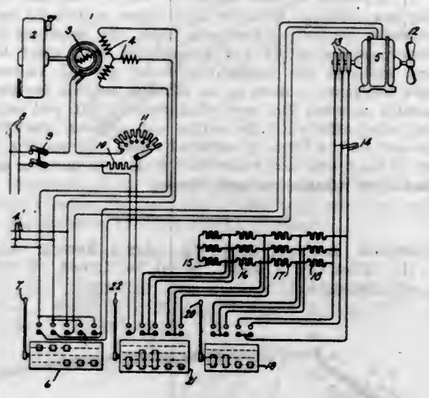
1,689,531. MACHINE FOR WEAVING REED FABRIC. MARSHALL B. LLOYD, Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 29, 1924. Serial No. 758,548. 39 Claims. (Cl. 139—14.)



1. An apparatus for weaving a stake and strand fabric embodying therein, means adapted to engage desired stakes to move them out of their normal plane, and an endwise movable member having one of its edges so formed as to operatively engage said means for actuating the same to move said desired stakes.

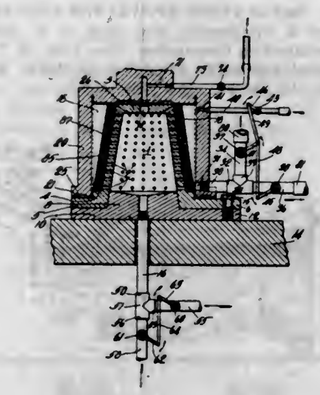
1,689,532. POWER SYSTEM. CAMPBELL MACMILLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 18, 1925. Serial No. 38,080. 5 Claims. (Cl. 172—237.)

5. The method of operating an electric power system wherein current is supplied to an induction motor from an alternating current generator, which comprises producing definitely related changes in the excitation of said generator and in the secondary resistance of said motor



throughout one range of operation, and changing said secondary resistance independently of said generator excitation throughout another range of operation.

1,689,533. METHOD OF AND APPARATUS FOR MOLDING REDUCERS FOR FIBROUS CONDUITS. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed June 11, 1925. Serial No. 36,433. 12 Claims. (Cl. 92—54.)



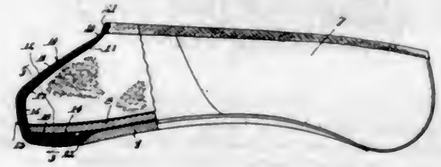
1. A method of producing a tapered fibrous article, which comprises placing a fibrous tube over a frusto-conical form, wetting said tube so as to soften it, applying pressure on the wall of said tube so that it assumes the shape of the form, removing the tapered tube from the form, and drying it.

3. Apparatus for forming fibrous reducers, comprising a form over which a tubular fibrous conduit may be positioned, a cover adapted to be placed over said form, an expansible rubber diaphragm covering the interior wall of said cover and secured thereto at its edges, and means for causing said diaphragm to expand and press the tube against the form.

1,689,534. CYCLIC PROCESS FOR THE MANUFACTURE OF KRAFT PULP. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Dec. 4, 1925. Serial No. 73,194. 12 Claims. (Cl. 92—13.)

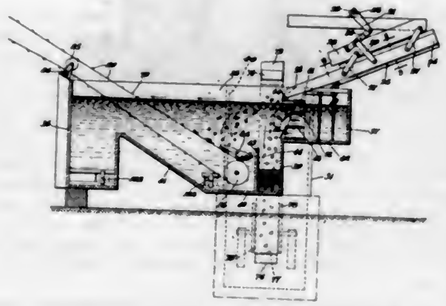
1. A process of fiber liberation, which comprises digesting raw cellulosic material in a liquor containing sodium sulphide, separating the pulp from the resulting spent liquor, concentrating and evaporating said spent liquor and smelting the inorganic content thereof, recovering said inorganic content in an aqueous solution for the digestion of other like raw cellulosic material, and recovering substantially all the sodium and sulphur constituents present in the form of sublimed solids and sulphur dioxide in the products of combustion from such smelting operation in an alkaline aqueous liquor.

1,689,535. BALLET SLIPPER. MAX I. ROVICK, Chicago, Ill. Filed Dec. 7, 1925. Serial No. 73,608. 2 Claims. (Cl. 36—1.)



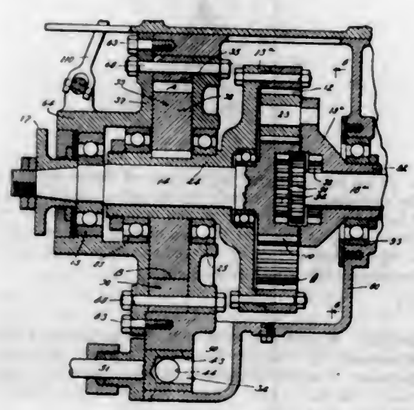
1. In a ballet slipper having a toe portion for toe dancing, a stiffening layer embedded within and extending beyond the boundary lines of the toe portion; and a second stiffening layer embedded within the toe portion and extending beyond the boundary lines of the first named stiffening layer, substantially as described.

1,689,536. SEPARATION APPARATUS AND PROCESS. ANTHONY R. SILVERSTON, New York, N. Y., assignor to Coke Reclamation Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 15, 1924. Serial No. 750,042. 13 Claims. (Cl. 209—156.)



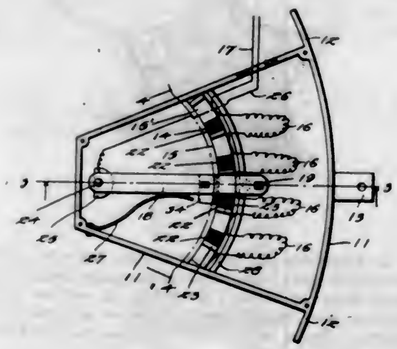
1. Apparatus for separating granular material composed of particles of different specific gravity, comprising a tank for containing liquid, means for causing the liquid in said tank to flow in a predetermined direction, a series of vanes in said tank for sectionalizing the body of flowing liquid to render the direction of flow of the various portions of the stream more uniform, a series of adjustable plates adjacent the downstream end of said vanes for deflecting the flow in a vertical direction; a chute for conveying said material to said tank at a point adjacent said plates, conveyor means extending transversely of said flow of liquid for removing the particles of relatively greater specific gravity, and conveyor means extending longitudinally of said flow of liquid for removing the particles of relatively less specific gravity.

1,689,537. POWER TRANSMISSION. CLARENCE S. SORENSEN, Los Angeles, Calif. Filed Oct. 9, 1924. Serial No. 742,514. 5 Claims. (Cl. 74—34.)



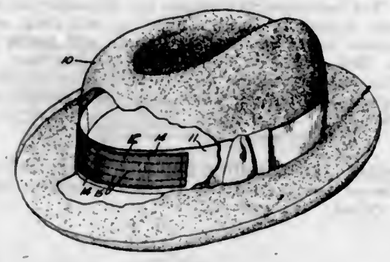
1. A drive including, a drive shaft, a driven shaft, a drive gear on the drive shaft, an internal gear concentric with the drive gear, a planet gear between the drive gear and internal gear, a carrier for the planet gear, a releasable driving connection between the carrier and driven shaft, and means for releasably connecting the drive and driven shafts directly together.

1,689,538. AUTOMOBILE HEADLIGHT REGULATOR. EDMUND B. VOLKERDING, St. Louis, Mo. Filed Apr. 30, 1927. Serial No. 187,897. 5 Claims. (Cl. 201—48.)



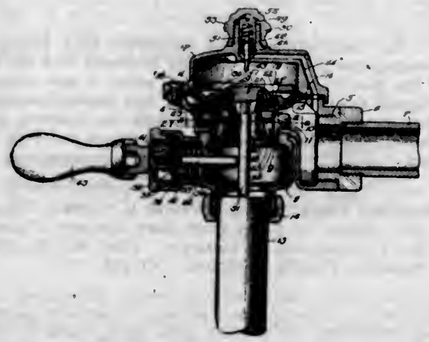
1. A light control consisting of a rheostat including a series of contacts, a lever for traversing the same and to be successively held thereby, means for moving the lever out of engaging position with respect to the contacts and for holding the lever in such position, and means for restoring the lever to normal position while being held by said moving means.

1,689,539. HAT PAD. ALBERT P. WAGNER, San Francisco, Calif. Filed May 11, 1927. Serial No. 190,416. 1 Claim. (Cl. 2—181.)



A pad adapted to be disposed under a hat band comprising a plurality of elongated strips of fabric stitched together along their edges and along a plurality of spaced parallel lines running the length of the strips intermediate the top and bottom edges thereof, and absorbent chemicals in powdered condition disposed in the elongated pockets formed by said fabric.

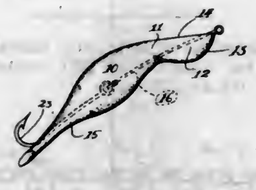
1,689,540. FLUSHING VALVE. EARL G. WATROUS, Chicago, Ill. Filed Feb. 13, 1925. Serial No. 8,924. 4 Claims. (Cl. 137—93.)



1. In a flushing valve, of the character set forth, the combination with a valve body having an intake connection, with a discharge chamber having an outlet connection and supporting the operating handle, and means comprising a sleeve which is threaded for engagement with the discharge chamber and which has a flange for engagement with the valve body for adjustably connecting the discharge chamber to the valve body for rotative adjustment.

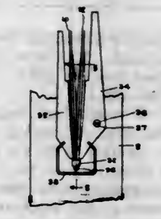
1,689,541. ARTIFICIAL BAIT. JACK T. WELCH, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a Corporation of Michigan. Filed May 29, 1926. Serial No. 112,583. 2 Claims. (Cl. 43—42.)

1. A fish bait comprising a body of buoyant plastic material terminating at its rear end in separated legs in simulation of a frog, a connected skeleton comprising a backbone portion extending longitudinally through the body and terminating at its forward end in a line tie and terminating at its rear end with diverging skeletal leg portions embedded within the legs, said leg portions being weighted to cause the rear end of the bait to sink downwardly when at rest, and a hook lying between the legs



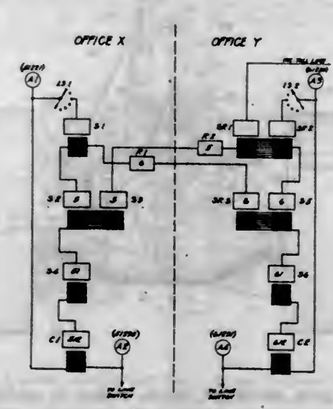
and upturned at its barbed end, and having its shank entered through the rear end of the body and connected with the skeleton, substantially as described.

1,689,542. THERMOSTAT. EVERETT H. WHITE, St. Paul, Minn. Filed July 20, 1927. Serial No. 207,193. 7 Claims. (Cl. 297—3.)



6. A thermostat comprising hollow members filled with an expansible fluid, said members consisting of strips of sheet material bent into U-shape at their middle and secured together along their margins.

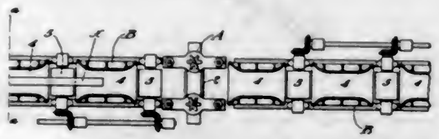
1,689,543. MULTIOFFICE TELEPHONE SYSTEM. JOHN WICKS, Oak Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Mar. 7, 1927. Serial No. 173,258. 16 Claims. (Cl. 179—27.)



9. In a telephone system wherein a train of automatic switches is operated over one talking conductor independent of the other and the change over operation of the switches is controlled over the other talking conductor

independent of the first, means for transmitting back a supervisory signal over the established connection to set up an answered-supervision state at the originating end thereof when the called subscriber answers.

1,689,544. METHOD OF ROLLING. SAMUEL G. WORTON, Duquesne, Pa. Filed Dec. 19, 1921. Serial No. 523,363. 2 Claims. (Cl. 51—278.)

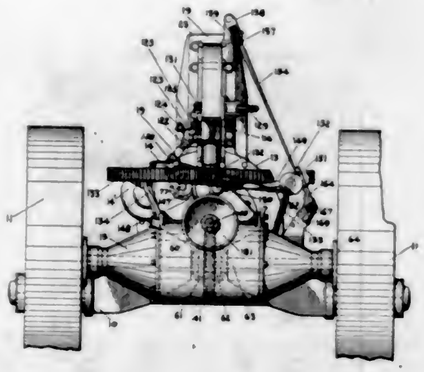


1. The method of finishing rolled metal shapes, which consists in grinding the shapes after completion of the rolling operation and while heated to a temperature approximating that at which the rolling operation is completed.

1,689,545. PROCESS OF SEPARATING SULPHUR FROM OTHER MATERIALS. KENNETH M. BAUM, San Francisco, Calif. Filed Sept. 3, 1927. Serial No. 217,530. 3 Claims. (Cl. 23—229.)

1. In a process of separating elemental sulphur from other materials, the steps of heating material containing elemental sulphur together with an aqueous solution of zinc chloride of a strength such that the specific gravity of this solution is greater than the specific gravity of molten sulphur when at the same temperature and less than the specific gravity of the main portion of the extraneous matter other than sulphur present, to a temperature above the melting point of sulphur, and removing the floating molten sulphur substantially free from other materials.

1,689,546. TRACTOR. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed May 12, 1921. Serial No. 468,941. 8 Claims. (Cl. 180—77.)

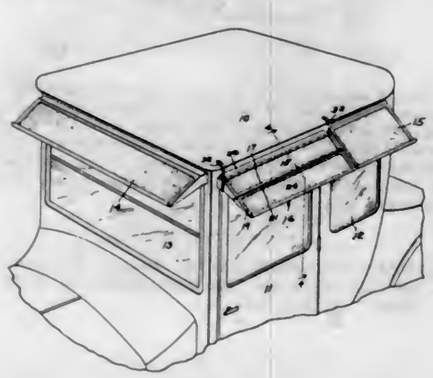


1. A latch device for levers having in combination a standard; a support pivoted to the standard; and a latch pivoted to the support, said latch having a holding ledge and camming surfaces on either side of the ledge, one of said surfaces being operative to move the latch in a direction transverse to that in which the latch is moved by the other surface.

1,689,547. METHOD FOR MAKING TRI-SODIUM PHOSPHATE. JOHN N. CAROTHERS, Anniston, Ala., assignor to Federal Phosphorus Company, Birmingham, Ala., a Corporation of Alabama. Filed Aug. 8, 1925. Serial No. 48,965. 6 Claims. (Cl. 23—107.)

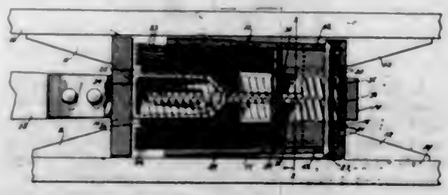
1. The hereindescribed process for the production of tri-sodium phosphate, which consists in subjecting sodium carbonate to the action of phosphoric acid having more than 50% H_3PO_4 to form di-sodium phosphate, then adding sufficient caustic soda to convert said di-sodium phosphate into tri-sodium phosphate, substantially as described.

1,689,548. AUTOMOBILE VISOR. GEORGE A. CLARK, Elwood, Nebr. Filed Aug. 19, 1925. Serial No. 51,253. 4 Claims. (Cl. 296—44.)



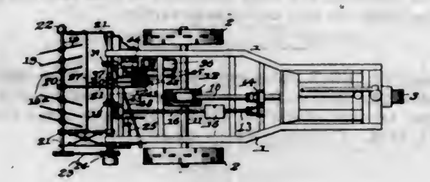
1. The combination of an automobile body having a swinging door, of a visor pivotally connected with the top of the door to swing in a vertical plane, a gear element attached to the visor, a co-acting gear element mounted upon the door, a lever connected with the co-acting gear element, and a link connected with the lever and with the body.

1,689,549. DRAFT GEAR. WALTER H. COTTON, Chicago, Ill., assignor to Union Draft Gear Company, Chicago, Ill., a Corporation of Delaware. Filed May 31, 1924. Serial No. 716,875. 9 Claims. (Cl. 213—33.)



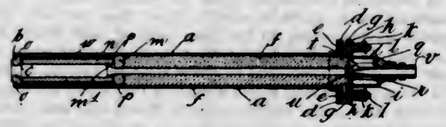
1. In a draft gear, in combination, a chambered follower having flaring side walls, two sets of friction plates anchored within the casing and parallel, respectively, with its side walls and of approximately the same length as said follower, two sets of floating friction plates intercalated with the plates of the first-named sets and approximately of the same length as said first-named plates, wedge elements located between the two groups of intercalated plates, springs opposing the movement of the wedge elements into the chambered follower, and an opposed follower engageable with the floating friction plates and wedge elements.

1,689,550. AGRICULTURAL MACHINE. ARTHUR DICK and JACOB A. DIRSCHAUER, Evansville, Ind. Filed Oct. 16, 1926. Serial No. 142,046. 1 Claim. (Cl. 79—40.)



In a wheeled agricultural machine, the combination with the machine frame, of arms movably suspended from said frame and adapted to be secured where positioned, a gang of soil-treating disks carried by said arms, other arms which are adjustably mounted on the first-named arms and adapted to be set in different raised or lowered positions, a main shield or housing which is secured to the first-named arms and covers the upper parts of the disks, and a supplemental shield or housing which is carried by the last-named arms and is adapted to slide in relation to the first-named housing when the last-named arms are adjusted, said supplemental shield or housing enabling the effective coverage of the disks to be increased, more or less, by adjusting the arms which carry said supplemental housing.

1,689,551. GASEOUS-FUEL BURNER. CECIL FEATHERSTONE HAMMOND, London, England, assignor of one-fifth to William Shackleton, London, England. Filed June 2, 1926, Serial No. 113,191, and in Great Britain June 2, 1925. 17 Claims. (Cl. 158—99.)



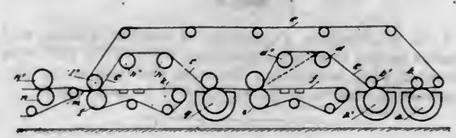
1. Submersible burner comprising two tubular parts of different bore freely communicating one with the other, the part of smaller bore being adapted for low temperature maintenance during operation and the parts of larger bore being adapted for high temperature maintenance during operation, and combustible fluid mixture supply means in communication with the part of smaller bore, the length of the part of larger bore being predetermined to ensure complete combustion within the burner, and the relation between the bores of these parts being such as to ensure that the velocity of the mixture from the supply to the combustion chamber shall exceed the velocity of flame propagation substantially as set forth.

1,689,552. HOTBED. EMIL KÄSTEL, Magdeburg, Germany, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed Dec. 18, 1926, Serial No. 155,690, and in Germany Dec. 15, 1925. 10 Claims. (Cl. 80—42.)

1. A hot bed for the purpose set forth, comprising in combination a plurality of receiving troughs the latter being composed of stationary supporting members and movable lifting members, stationary partition walls arranged so as to separate the receiving troughs from each other, said partition walls being provided at their tops with inclined delivery surfaces, a cooling bed arranged alongside the receiving troughs, a plurality of obliquely disposed conveying rollers arranged so as to transfer the material longitudinally from the rolling mill into the receiving troughs and to push the material laterally in the direction of the cooling bed.

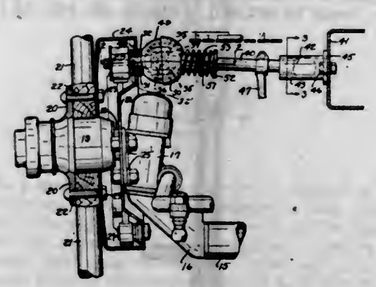


1,689,553. PAPER, CARDBOARD, AND PASTEBOARD MAKING MACHINE. OTTO LEONHARDT, Crossen, Germany. Filed Dec. 30, 1926, Serial No. 158,073, and in Germany Aug. 7, 1925. 1 Claim. (Cl. 92—39.)



An arrangement for the manufacturing of paper, cardboard or pasteboard couched together from several layers of paper, comprising in combination with the round-sieve cylinders the couching rollers and the long-sieve elements, an endless felt for successively taking the paper layers prepared on the several sieve-elements from these sieve elements to unite the paper layers from the preceding sieve elements with the paper layer prepared on the next following sieve elements, guide-rollers for guiding said felt, and covers of said guide-rollers of a material permeable to water so that the paper layers on said felt come in contact with said cover.

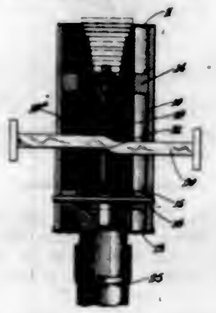
1,689,554. BRAKE. VINCENT LINK and HODGSON S. PIERCE, Detroit, Mich., assignors to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed June 28, 1926. Serial No. 119,098. 8 Claims. (Cl. 188—194.)



3. In a brake mechanism for a motor vehicle, an open-ended bracket carrying a rotatable shaft, a cam on one end of said shaft bearing against said bracket, a second shaft universally connected within said open end to the first-mentioned shaft, a cover for said open end carried by said second shaft and axially slidable thereon, an abutment on said second shaft in close proximity to said cover, and a coil spring encircling said second shaft and held under

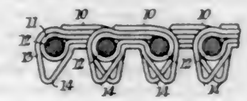
compression between said cover and said abutment whereby to resiliently hold said cover and said cam in contact with said bracket, said abutment providing the sole stop for limiting the axial movement of said cam away from said bracket.

1,689,555. PULP MOLD OF LAMINATE STRUCTURE. FELIX LOUISOT, Hasbrouck Heights, N. J. Filed Oct. 8, 1927. Serial No. 224,798. 12 Claims. (Cl. 92—54.)



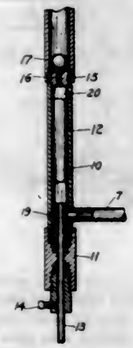
1. In combination, a plurality of slidable laminæ, said laminæ having their edges defining a mold cavity and being provided with intervening channels and means for successively moving said laminæ relative to each other.

1,689,556. DRIVE CHAIN. EDGAR B. NICHOLS, Rochester, N. Y. Filed Aug. 20, 1926. Serial No. 130,530. 5 Claims. (Cl. 74—32.)



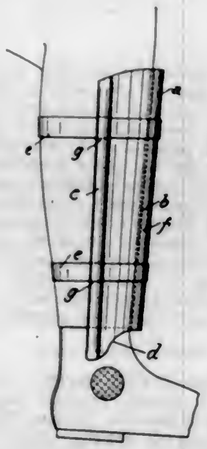
3. A link for drive chains comprising a plurality of metal layers, one layer including pin loops, and another layer in contact with the first layer throughout the greater part of its length, and spaced from the first layer adjacent the pin loops to form gear engaging teeth.

1,689,557. MEANS FOR FEEDING FLUID BY INTERMITTENT CHANGES OF FLUID PRESSURE. CARL H. NORDELL, Fort Wayne, Ind., assignor to The Permutit Company, a Corporation of Delaware. Filed Sept. 12, 1922. Serial No. 587,837. 1 Claim. (Cl. 103—52.)



Liquid feeding means comprising a vertically disposed cylinder, a loosely fitting piston slug disposed therein, means formed in the cylinder for admitting fluid to the underside of the slug, means positioned above said slug operative to permit the escape of fluid from said cylinder, an adjustable stop member for limiting the stroke of said slug, a closure for said liquid escape means, said closure being forced away from said escape means when the piston slug moves upwardly, and being positioned to close said escape means when the slug moves downwardly.

1,689,558. SHIN-BONE-PROTECTING SHIELD FOR SPORTS. JULIUS PATTEN, Duisburg, Germany. Filed Dec. 14, 1926, Serial No. 154,801, and in Germany Oct. 31, 1925. 1 Claim. (Cl. 2—22.)



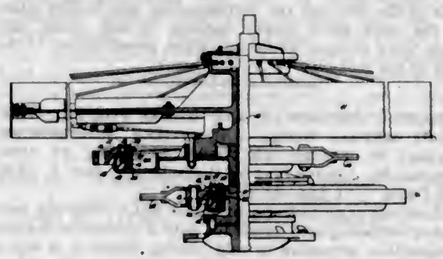
A shin-bone protecting shield for sports, comprising in combination, a shield of semi-circular cross section, outwardly flanged edges on the long sides of said shield, an insertion of elastic material fixed in the flanged edges of said shield and extending in space relation thereto across the inner side of said shield so that a free space is formed between said inner surface of said shield and said insertion, and straps of elastic material for attaching said shield on the leg.

1,689,559. AUTOMATIC STARTING DEVICE FOR ALTERNATE-CURRENT MOTORS. BRUNO RAETTIG, Hoffnungsthal, near Cologne, Germany. Filed Feb. 9, 1926, Serial No. 87,118, and in Germany Jan. 13, 1925. 6 Claims. (Cl. 172—280.)



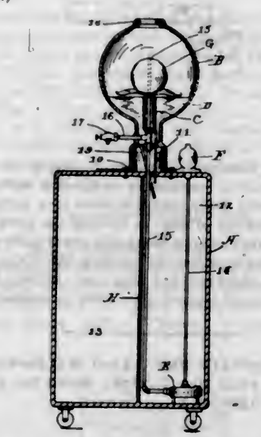
1. An automatic starting device for a polyphase induction motor mounted on the rotor of said induction motor, including in combination, a closed magnetic circuit core, a winding on said core in circuit with each phase winding on the rotor of said motor, said core being composed of laminations of different thicknesses throughout its cross section whereby eddy currents are automatically decreased at high frequencies when there is a relatively large slip.

1,689,560. LUBRICATING DEVICE. JOHN REID, Oil City, Pa., assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Filed Oct. 20, 1927. Serial No. 227,569. 12 Claims. (Cl. 308—130.)



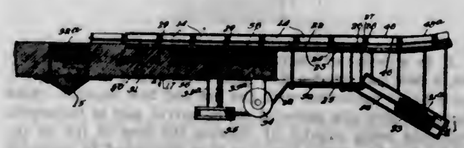
1. In combination with two relatively movable members having substantially vertical mutual bearing surfaces, one of said members having at its lower edge a cup adapted to retain oil flowing from said bearing surfaces, a rotatable disk extending from said cup to the upper limit of said bearing surfaces, and means for rotating said disk.

1,689,561. DISPENSING APPARATUS. RUSSELL M. RODDICK, Pasadena, Calif. Filed Apr. 15, 1927, Serial No. 183,997. Renewed Mar. 23, 1928. 2 Claims. (Cl. 225—28.)



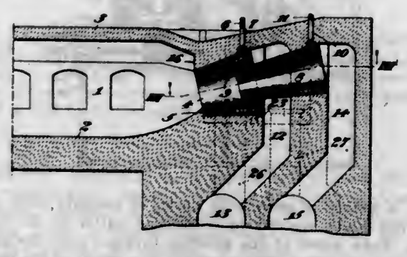
1. Apparatus of the class set forth, comprising, in combination, an image representing fruit from which the juice to be dispensed is extracted, a basin below said image, a duct terminating above said image and through which juice is adapted to bubble and flow over said image and drop into said basin, and means for circulating the juice caught by said basin upwardly through said duct.

1,689,562. PRINTING PRESS. THOMAS C. SPELLING, Chicago, Ill. Filed Aug. 13, 1927. Serial No. 212,819. 22 Claims. (Cl. 101—55.)



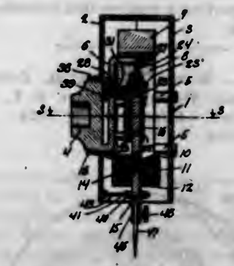
19. In a machine of the character described, guiding means for chases, chases therein having an engaging part, propelling means having a releasable part cooperating with the engaging part of each chase, and means for moving said propelling means back and forth to engage said successive chases including a spring for retracting the same to normal position, and means opposed to said spring for influencing movement in an opposite direction including a slidable member, a chain or the like connecting the same with the chase propelling means, and a spring-held actuating member adapted to cooperate with the slidable member to shift the same, the slidable member having a depending stop, and a bevelled releasing device in the path of movement of the stop to free the same from the shifting actuating member.

1,689,563. FURNACE AND METHOD OF OPERATING THE SAME. RICHARD H. STEVENS, Melrose Park, Pa., assignor to Bethlehem Steel Company, a Corporation of Pennsylvania. Filed Sept. 2, 1921. Serial No. 497,814. 5 Claims. (Cl. 263—15.)



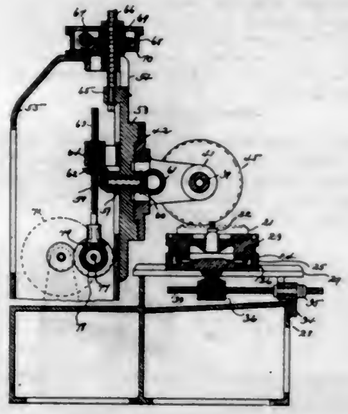
1. An open hearth furnace entrance port of tuyère construction, a flue connecting the rear end thereof to a regenerator, another port of tuyère construction the forward end of which projects within the rear end of the first-mentioned port and provided with a flue connection to another regenerator, means for controlling the flow of gases to said ports, and additional openings near the furnace end to said regenerators controlled by valves.

1,689,564. MEANS FOR THE RADIO-TRANSLATION OF PHONOGRAPHICALLY-RECORDED SOUND WAVES. FLETCHER THORINGTON, Birmingham, Ala. Filed Dec. 30, 1927. Serial No. 243,611. 8 Claims. (Cl. 179—100.1.)



5. In a device of the class described, a support, a vibratory element, resilient means supporting the vibratory element from the support, means carried by the vibratory element for supporting a phonographic stylus, a fixed condenser plate upon the support, a condenser plate movable with the said vibratory element, a fixed magnet upon the support including spaced opposing pole pieces, a coil supported between said pole pieces, an armature supported by said vibratory element within the field of said coil and between the said pole pieces, and means for centering and maintaining the said armature in uniformly spaced relation with respect to the pole pieces and within the field of the coil, comprising a resilient yieldable connection between said support and said element below the point of suspension of the element.

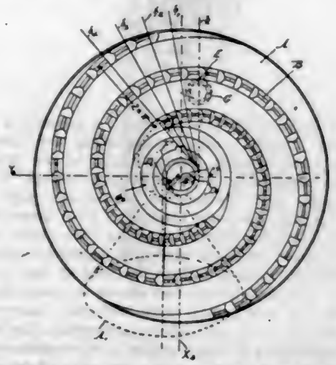
1,689,565. METHOD OF AND MACHINE FOR GENERATING WORM GEARS AND THE LIKE. NIKOLA TRBOJEVICH, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Jan. 28, 1924. Serial No. 689,130. 51 Claims. (Cl. 90—4.)



1. A method of generating worms of constant pitch and the like which consists in selecting a cutter in the form of a crown wheel of the modified involute type having a plurality of cutting teeth arranged in a spiral of the modified involute type, said teeth being of equal width in a plane perpendicular to the axis of the tool, in placing said cutter in tangential relation with the blank, and in rotating said blank and cutter in timed relation.

49. In a machine for producing worms, a blank spindle, a rotary tool, having a plurality of cutting teeth extending in the general direction of its axis and arranged in a spiral which is of constant pitch along a straight line offset from its axis, said teeth being of equal width in a plane perpendicular to said axis and having their outermost points lying in a plane perpendicular to said axis, means for positioning the tool and blank in tangential relation with the projected axis of the blank coinciding with the line of constant pitch of the tool, means for rotating the tool and blank in timed relation, and means for simultaneously imparting a relative feed movement between the tool and blank.

1,689,566. HOB. NIKOLA TRBOJEVICH, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Jan. 28, 1924. Serial No. 689,131. 25 Claims. (Cl. 29—103.)



1. A rotary gear cutting tool having a plurality of axially disposed teeth projecting from a plane face and arranged to form an effective operating portion which is of rack section of constant pitch, each tooth being provided with a top cutting edge and opposite side cutting edges, the top cutting edges all lying in a plane perpendicular to the axis of the tool and the corresponding side cutting edges of the teeth being equally inclined to said plane, said teeth being of equal width, in a plane perpendicular to the axis of the tool.

1,689,567. METHOD OF AND MEANS FOR PROTECTING METAL, WOOD, AND OTHER SUBSTANCES. PERRY W. TURNER, Ada, Ohio. Filed Aug. 18, 1926, Serial No. 130,108, and in Great Britain Dec. 1, 1925. 1 Claim. (Cl. 154—41.)

A method of protecting a substance which comprises completely enclosing said substance with a protective coating composition, attaching to said coating before it is dry a moist fabric to cover the substance, allowing the fabric to dry and shrink, and covering and impregnating the fabric thereafter with said protective composition.

1,689,568. PROCESS OF MAKING RADIATOR CORES. BENJAMIN HATHAWAY WADE, Chicago, Ill. Filed Feb. 17, 1927. Serial No. 169,014. 2 Claims. (Cl. 113—116.)



1. The herein described steps in a process of making a radiator core, which consists in making a series of cuts extending inwardly from opposite sides of a strip of metal to provide a plurality of fins, in folding the strip along its central longitudinal axis to bring the outer ends of the fins in substantial registration, in bending the strip along the inner common edges of the fins into spiral form, and placing said spirally-formed strip over a conducting tube.

1,689,569. FOUNTAIN PEN. ANNA WALEROWICZ, Wyandotte, Mich. Filed Mar. 7, 1928. Serial No. 259,650. 4 Claims. (Cl. 120—48.)

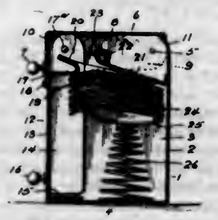


1. In a device of the class described, a fountain pen barrel, a pen point and a flow member engaged in the barrel, an ink tube connected with the pen and flow member, choke members pivotally mounted to the barrel, and in horizontal positions being capable of choking the flow of ink in the said ink tube, spring actuated rods connected to normally urge the choke members to inclined positions, and a cap member engaged on the barrel, and holding the rods in restrained positions so that the choke members are horizontal.

1,689,570. PROCESS OF MAKING REINFORCED HARD RUBBER. WILLIAM BURTON WESCOTT, Boston, Mass., assignor to The Rubber Latex Research Corporation, Boston, Mass., a Corporation of Massachusetts. Original application filed Nov. 18, 1922, Serial No. 601,910. Divided and this application filed Dec. 23, 1926. Serial No. 156,764. 1 Claim. (Cl. 18—50.)

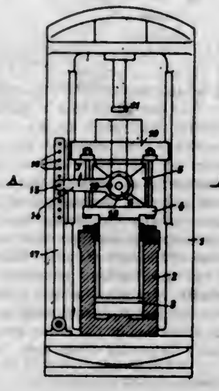
In the manufacture of articles composed of or comprising hard rubber, the process which comprises admixing comminuted hard rubber, disintegrated partially cured rubber, sulfur, fiber and rubber latex, drying, molding and vulcanizing.

1,689,571. DISPENSING CABINET. GEORGE B. WEST, U. S. Army, Washington, D. C. Filed June 7, 1926. Serial No. 114,329. 3 Claims. (Cl. 312—61.)



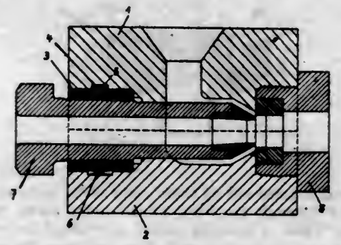
1. A dispenser for interfolded sheets of paper or the like, comprising a rectangular body portion adapted to receive a pile of interfolded sheets of paper, open at its top and having a recharging opening in its front, means adjacent to the upper portion of the body portion for separate discharge of the sheets of paper, compressible means for lifting sheets of paper into contact with said discharging means, a closure for said recharging opening and a lid for closing the top of the body portion and retaining said closure in closed position, substantially as described.

1,689,572. LEAD-CABLE PRESS. PAUL WIEGHARDT, Magdeburg, Germany, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed Dec. 31, 1926, Serial No. 158,367, and in Germany Feb. 6, 1926. 3 Claims. (Cl. 207—1.)



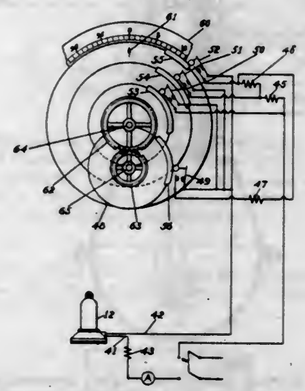
1. In a lead cable press having a tool holder adjustable by rotational movement, a lever coupled to said tool holder, and means for coupling the opposite end of said lever to a part of the press between which and said tool holder there is relative motion during the normal operation of the press.

1,689,573. VERTICAL LEAD-CABLE PRESS. PAUL WIEGHARDT, Magdeburg, Germany, assignor to the Firm: Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed Dec. 31, 1926, Serial No. 158,368, and in Germany Feb. 19, 1926. 2 Claims. (Cl. 207—1.)



1. A vertical lead cable press having a divided press head the division surfaces of which lie parallel to the tool holder axis, the two parts of said press head having recesses, a one piece sleeve non-rotatably mounted in said recesses, and a tool holder threaded in said sleeve.

1,689,574. METHOD AND APPARATUS FOR SOUND PRODUCING. ROBERT LONGFELLOW WILLIAMS, Newton, Mass., assignor to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed Dec. 11, 1924. Serial No. 755,291. 7 Claims. (Cl. 177—386.)

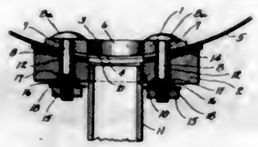


6. An electric sound generating system of the impact type comprising an impact member, a diaphragm on which said impact member operates, a restraining spring and electromagnetic means for retracting said impact member against said restraining means and means for controlling the supply of current to said electromagnetic means including means for decreasing the current supplied to said electromagnetic means after said impact member is in its retracted position and means for breaking the current and releasing said impact member after it has been reduced.

1,689,575. BOILER FITTING. SPERRY H. WINN, Seattle, Wash. Filed Dec. 20, 1926. Serial No. 155,977. 1 Claim. (Cl. 285—50.)

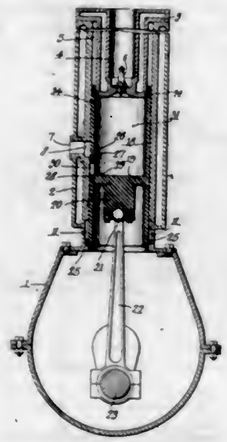
In combination, a tank, having a wall provided with an opening and slots extending in the same line at opposite sides of said opening, and a fitting comprising an inner plate that is insertable edgewise into the tank through said opening and slots, and which may then be turned to overlie

said opening and slots and is provided with a central outlet and with bolt holes adapted to register, respectively, with the said tank wall opening and ends of said slots, an outer plate fitted to the outside of the tank wall having a central opening that is threaded to receive a pipe and with bolt holes alined with the bolt holes of the inner plate; said



holes being reamed out at their outer ends, bolts projected outwardly through the holes of the inner plate, the wall and outer plate, a packing gasket interposed between the tank wall and outer plate, nuts threaded onto the bolts for drawing the parts together and gaskets inserted about the bolts within the reamed parts of the holes for precluding leakage about the bolts.

1,689,576. GASOLINE ENGINE. HARRY LEE ADAMS, Elvins, Mo. Filed May 21, 1927. Serial No. 193,338. 3 Claims. (Cl. 123—45.)

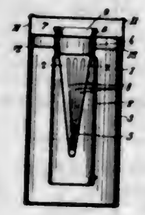


2. In an internal combustion engine, cooperating members including a cylinder and a piston mounted to reciprocate in the cylinder, the cylinder having intake and exhaust ports, and the piston being provided with a port, one of said cooperating members having a circumferential zigzag guide groove comprising branches, and the other of said cooperating members having a projection slidable in the groove, the projection and the groove coacting to rotate the piston and to bring the port of the piston into communication with the intake and exhaust ports at different times, as the piston is reciprocated, and back-stop pawls in the branches of the groove, and constituting means for directing the projection from one branch of the groove into the other branch thereof.

1,689,577. WELDING ROD. FREDERICK M. BECKET, New York, N. Y., assignor to Oxweld Acetylene Company, a Corporation of West Virginia. Filed Mar. 30, 1926. Serial No. 98,555. 3 Claims. (Cl. 219—8.)

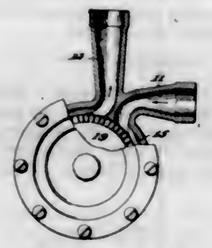
1. A welding rod consisting of an iron alloy containing manganese 1.0% to 4.0%; nickel 0.2% to 4.0%; and silicon 0.1% to 0.3%.

1,689,578. RAPID FREEZER. FERDINAND FRANZ BENZ, Hamburg, Germany. Filed Oct. 4, 1927. Serial No. 223,945. 1 Claim. (Cl. 62—75.)



A rapid freezer comprising in combination a double-walled evacuated metal vessel for the freezing solution the outer wall of which is of light metal, the inner wall being of German silver said inner wall being offset at the upper end to form a slightly conical neck, an insertion serving as mould for the iceblock to be produced and tightly fitting into the neck portion of said vessel and having longitudinal grooves pressed in the inner surface to enlarge the surface upon which said freezing solution acts, a slightly conical portion at the upper end of said insertion, tightly fitting into said neck, and an air evacuated air tightly closed conical stopper tightly fitting into the top portion of said insertion.

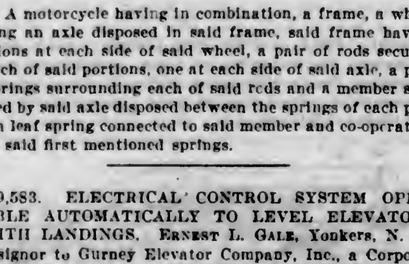
1,689,579. ROTARY PUMP. ARTHUR W. BURKS, Decatur, Ill. Filed Aug. 24, 1921. Serial No. 494,995. 2 Claims. (Cl. 103—96.)



1. A pump comprising a casing and a rotatable disc therein forming a rotor, said casing having a plurality of annular raceways partially separated by an interposed web paralleling the raceways and directed radially inwardly toward the periphery of the rotor, said rotor having two independent annular series of buckets, the buckets of each series being disposed adjacent the margin of the rotor with the buckets opening radially outwardly and also laterally into one of said raceways, a common inlet and a common outlet for said series of buckets whereby fluid entering the inlet is impelled by said buckets partially through one raceway and partially through the other raceway simultaneously, said rotor and said casing making substantially fluid-tight joints at the sides of the rotor whereby to resist flow of fluid radially inwardly from said buckets.

1,689,580. VACUUM CLEANER. PASQUALE DADDIO, New York, N. Y. Filed Oct. 8, 1927. Serial No. 224,036. 1 Claim. (Cl. 15—15.)

In a vacuum cleaner, a motor casing including a forward casing section and a rear casing section arranged in end-to-end relation, a suction chamber casing including a rear casing section formed integral with the forward motor casing section, and a forward casing section detachably connected with the last named rear casing section, said suction chamber casing having an inlet and outlet, a motor mounted within the motor casing and including a field member having one end projecting into the forward motor casing

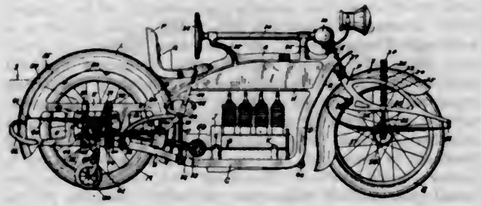


section and its opposite end projecting into the rear motor casing section to serve as a coupling between the same, a fan mounted within the suction chamber casing and driven by the motor, a nozzle connected with the inlet of the suction chamber casing, a dust collecting bag connected with the outlet of the suction chamber casing, and a handle carried by the motor casing.

1,689,581. STABILIZED LATEX AND PROCESS OF PRODUCING SAME. MORGAN ROBERT DAY, Boston, Mass., assignor to Rubber Latex Research Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 3, 1927, Serial No. 158,828. Renewed Mar. 27, 1928. 6 Claims. (Cl. 18—50.)

1. As a new material, stabilized latex containing blood proteid.

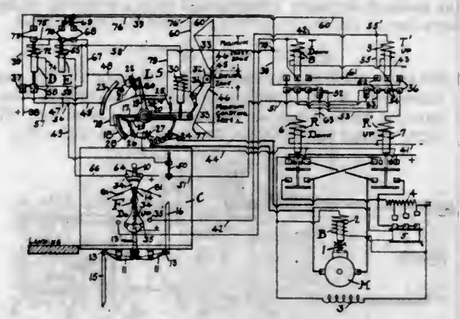
1,689,582. MOTOR VEHICLE. ANDREW DURESEN, Minneapolis, Minn. Filed May 23, 1925. Serial No. 32,515. 19 Claims. (Cl. 208—101.)



1. A motorcycle having in combination, a frame, a wheel having an axle disposed in said frame, said frame having portions at each side of said wheel, a pair of rods secured in each of said portions, one at each side of said axle, a pair of springs surrounding each of said rods and a member supported by said axle disposed between the springs of each pair and a leaf spring connected to said member and co-operating with said first mentioned springs.

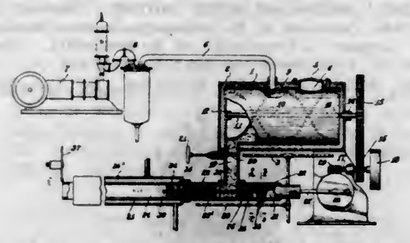
1,689,583. ELECTRICAL CONTROL SYSTEM OPERABLE AUTOMATICALLY TO LEVEL ELEVATORS WITH LANDINGS. ERNEST L. GALE, Yonkers, N. Y., assignor to Gurney Elevator Company, Inc., a Corporation of Pennsylvania. Filed July 13, 1925. Serial No. 43,080. 30 Claims. (Cl. 187—29.)

12. In an elevator system, the combination with the car, a hoisting motor, a car switch to initiate the start of the car, means operable by centering the car switch automatically to continue the movement of the car, and a stopping switch controlled automatically by the load and



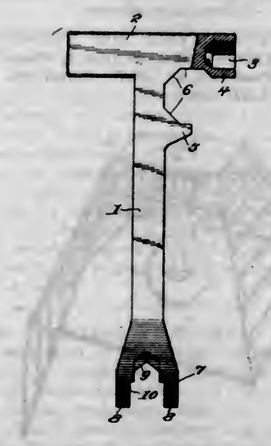
rendered operable to control the hoisting operation always at a pre-determined fixed point relative to a pre-determined landing.

1,689,584. METHOD OF MOLDING COMPOSITE-CORK BODIES. WILLIAM F. GRUPE, Lyndhurst, N. J., assignor to Boucher Cork Company, New York, N. Y., a Corporation of New York. Filed Aug. 10, 1923. Serial No. 656,744. 17 Claims. (Cl. 18—48.)



1. The process of forming molded products of cork, comprising subjecting granules of cork to an elevated temperature in a partial vacuum to render the cork and the resins natural in cork plastic and molding the same while in plastic form under vacuum condition.

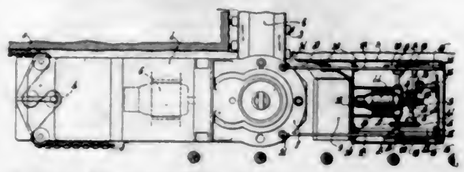
1,689,585. TIRE TOOL. LOUIS F. HASCHART, Lynbrook, N. Y. Filed May 9, 1927. Serial No. 190,059. 1 Claim. (Cl. 81—119.)



A tool of the class described comprising a handle and a hammer-like head, one end of the head having a depending part with the sloping shoulder at the inner end of the de-

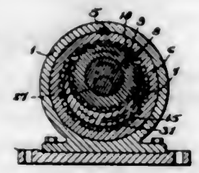
pending part, and a projection on the handle forming with said shoulder of said depending part a nut-receiving space, the walls of the space being formed with a plurality of flat faces one of the flat faces being formed by the shoulder.

1,689,386. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 27, 1921. Serial No. 510,699. 57 Claims. (Cl. 262—30.)



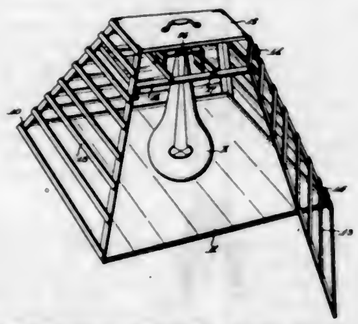
1. In a mining apparatus, kerf cutting mechanism movable along a face in which a kerf is being cut, and slack handling mechanism for moving slack laterally from the face and out of the path of the apparatus, said handling mechanism being connected to said cutting mechanism and disposed wholly outside of and parallel to the face and laterally of the trailing edge of said cutting mechanism.

1,689,587. PRESSURE-FLUID MOTOR. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 27, 1918, Serial No. 242,175. Renewed Oct. 31, 1921. Serial No. 511,842. 28 Claims. (Cl. 121—53.)



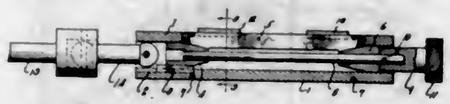
1. In combination, a compound epicyclic gear reduction including a plurality of pairs of intermeshing gears, means cooperating with the teeth of the gears of each pair to form pressure fluid receiving pockets increasing in volume on relative movement between said gears, and means for supplying motive fluid to the pockets formed between the teeth of each pair.

1,689,588. SAFETY DEVICE FOR TRANSPORTING FRAGILE ARTICLES. WALTER J. HOY, Woodside, New York, N. Y. Filed Oct. 23, 1926. Serial No. 143,669. 10 Claims. (Cl. 217—52.)



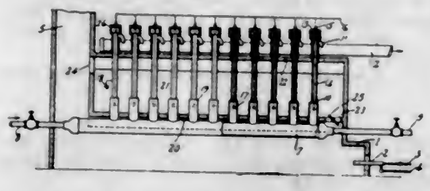
1. A transporting container for fragile articles including means for suspending the articles within the container for universal swinging movements in a substantially horizontal plane, said suspension means including an apertured frame, a yieldable resilient article-embracing girdle secured to the upper portion of the article and presenting an enlargement of greater diameter than the aperture in the frame adapted to seat upon the frame, and means for preventing upward or lateral displacement of the enlargement with respect to the frame whereby to maintain the article centered in the aperture.

1,689,589. GRINDER. MARSDEN C. HUTTO, Detroit, Mich. Filed July 20, 1925. Serial No. 44,644. 2 Claims. (Cl. 51—206.)



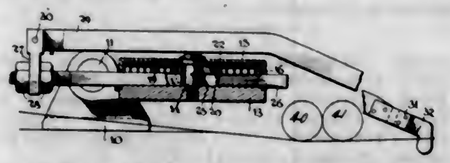
2. In a grinder for truing cylindrical apertures, a hollow body member having a series of longitudinally extending radial slots therein, a series of abrasive holders fitting the said slots, means in the body for adjusting the holders radially in the slots, and an abrasive member adjacent each end of each holder providing a tool with a series of abrasive elements in longitudinally spaced relation adapting the same for grinding pairs of spaced apertures in axial alignment.

1,689,590. PETROLEUM-CRACKING PROCESS AND APPARATUS. JOHN JAY JAKOSKY, Los Angeles, Calif. Filed Oct. 15, 1925. Serial No. 62,553. 7 Claims. (Cl. 196—57.)



1. The process of cracking petroleum or petroleum products which comprises passing the material to be cracked under pressure through a retort, heating such retort to a sufficient temperature to effect cracking thereof, the pressure being such as to maintain the uncracked material substantially wholly in the liquid phase while permitting vaporization of cracked products, removing vaporized products of such cracking at a plurality of points distributed lengthwise of said retort, subjecting each of such vaporized products to a separate electrical precipitating operation to remove liquid particles therefrom and returning the material precipitated from each of such products to the retort at substantially the point at which such product was removed and then collecting such vaporized products.

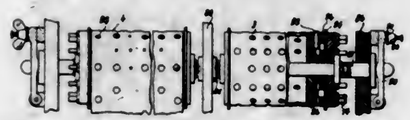
1,689,591. FELL GAUGE FOR LOOMS. JOHN EDWIN JOHNSON, South Manchester, Conn., assignor to Cheney Brothers, South Manchester, Conn., a Corporation of Connecticut. Filed June 24, 1924. Serial No. 722,144. 14 Claims. (Cl. 139—1.)



1. A fell gauge for looms comprising a support, a casing thereon, a rotary element in the casing having a hair line, a spring coiled about the axis of said rotary element

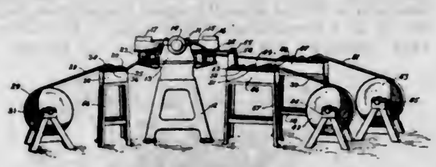
for holding said element in one position, a window in the casing having a hair line adapted to register with that first mentioned, a comb adapted to engage the fell of the cloth and gearing between said comb and said rotary element for turning the same against the action of the spring, substantially as set forth.

1,689,592. PATTERN MECHANISM FOR KNITTING MACHINES. VINCENT LOMBARDI, Brooklyn, N. Y. Original application filed Sept. 17, 1925, Serial No. 56,895. Divided and this application filed June 2, 1927. Serial No. 195,967. 3 Claims. (Cl. 66—156.)



2. A knitting machine comprising a perforated cylinder for holding a perforated pattern comprising a plurality of radially extending pins at each end of said cylinder and passing through perforations in the pattern and a control member for the pins at each end of said cylinder, said control member in one position causing said pins to be retracted sufficiently to withdraw the pins from the pattern perforations and in a second position causing said pins to project through the perforations.

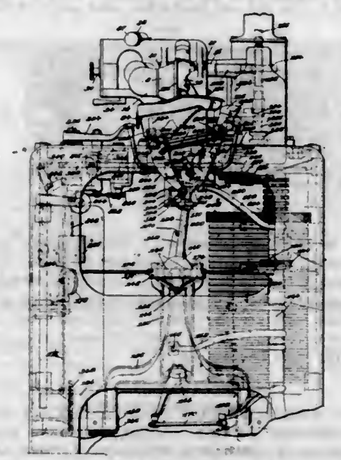
1,689,593. PROCESS AND APPARATUS FOR FORMING GREASE-PROOF FIBER CONTAINERS. DONALD G. MAGILL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 24, 1921. Serial No. 509,937. 1 Claim. (Cl. 93—80.)



The process of forming grease-proof fiber containers, which comprises passing a strip of paper in contact with a quantity of grease-proofing compound, and then passing said strip onto a forming mandrel with the grease-proofing compound in contact with said mandrel, feeding other strips of paper coated with adhesive upon the mandrel and over said first mentioned strip and rotating and advancing the resulting tubing upon the mandrel, and causing by winding pressure the grease-proofing material to enter all interstices of the paper and to impregnate thoroughly the body of the paper forming the inner ply of the container.

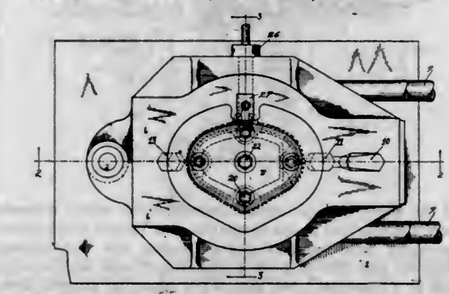
1,689,594. SHOE MACHINE. ALFRED R. MORRILL, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 2, 1920, Serial No. 355,583. Renewed Jan. 20, 1928. 76 Claims. (Cl. 12—17.)

3. A machine for operating on shoes having, in combination, means for operating on a shoe comprising an inseam trimming knife and welt beating elements, guides in contact with which the shoe is moved, mechanism for changing the relative positions of the shoe and the operating means to present the shoe properly to the operating means as the point of operation is transferred about the



shoe, and automatic mechanism for relatively moving the guides and for relatively moving the welt beating elements to permit the disengagement of the shoe.

1,689,595. METAL MOLD AND METHOD OF CASTING. ALLEN B. NORTON, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 28, 1924. Serial No. 694,479. 20 Claims. (Cl. 22—155.)

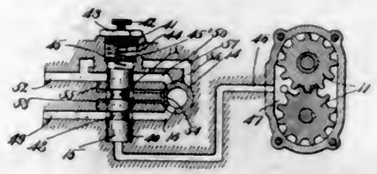


9. A mold for making aluminum alloy castings comprising relatively movable mold members having their adjacent faces suitably recessed to form a casting cavity for an enlarged cup shaped article, a gate cavity and a feeder cavity, the gate and feeder cavities communicating with the casting cavity at one side thereof, a core supported on the mold members and extending into the casting cavity with the inner end and side surfaces spaced apart from the adjacent surfaces of the mold members to form a thin walled casting, and a recess formed in one of the mold members separate from but communicating with the casting cavity at points adjacent to and remote from the feeder cavity.

1,689,596. DRILLING MECHANISM. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 13, 1924. Serial No. 699,123. 27 Claims. (Cl. 121—5.)

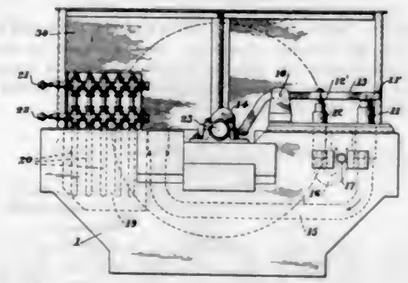
1. A drilling mechanism comprising a drilling motor, a steel actuated thereby, pressure fluid actuated rotation means for the steel, feeding means for the steel, and pressure fluid actuated means responsive to the resistance to rotation for automatically controlling said feeding means, said controlling means including means for providing

therein sharply distinct degrees of responsiveness to said resistance and said controlling means comprising valve mechanism to vary the rate of feed up to a predetermined point and to cut out the feed when said point is exceeded.



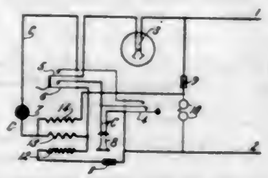
24. In a drilling mechanism, a drilling motor for actuating a drill steel, rotation means for the steel, reversible feeding means for the steel, means responsive to the resistance to rotation for automatically varying the power of, or reversing said feeding means, and means for preventing an excessive rate of forward feed when the resistance on the drill steel is removed.

1,689,597. CELL FOR ELECTRODEPOSITION OF METALS. ROBERT D. PIKE, Piedmont, GEORGE H. WEST, Berkeley, and BENJAMIN PLUMMER LITTLE, Oakland, Calif.; said West and Little assignors to said Robert D. Pike. Filed Sept. 23, 1925. Serial No. 58,010. 8 Claims. (Cl. 204—5.)



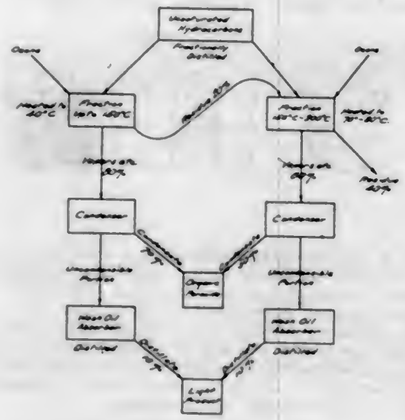
1. In a cell for the electro-deposition of metal, cathode compartments and anode compartments, porous diaphragms separating said compartments, means for introducing catholyte into the cathode compartment and maintaining same at a constant level, means for removing anolyte from the anode compartments, common channels connected with the anode compartments on each side, and means for automatically admitting catholyte so as to maintain the level of the anolyte substantially constant.

1,689,598. TELEPHONE SUBSTATION CIRCUITS. HAROLD C. PYE, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 23, 1925. Serial No. 64,293. 7 Claims. (Cl. 179—81.)



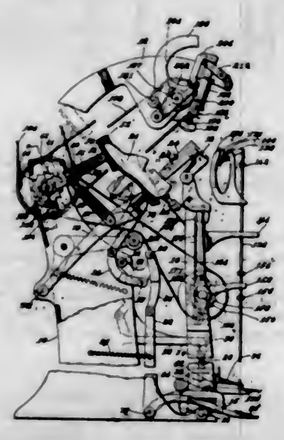
1. In an automatic telephone substation, a group of equipment comprising a ringer, a condenser and an induction coil, a second group comprising a transmitter and a receiver, and circuit means for connecting said elements to form a common battery booster antiside tone circuit, said means including a cord of only three conductors connected between said equipment groups.

1,689,599. PEROXIDE OF HYDROCARBON AND PROCESS OF MAKING THE SAME. ALEXANDER S. RAMAGE, Detroit, Mich. Filed Apr. 27, 1925. Serial No. 26,295. 7 Claims. (Cl. 260—16.)



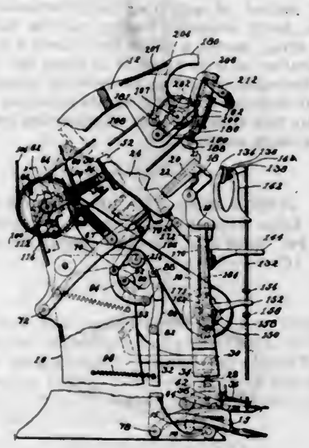
6. Process which comprises ozonizing a liquid mixture of hydrocarbons such as may be obtained by cracking petroleum hydrocarbon mixtures.

1,689,600. RELASTING MACHINE. JOHN H. RICHARDSON, Melrose, and ALBERT E. HUDSON, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 9, 1919. Serial No. 309,555. 62 Claims. (Cl. 12—15.)



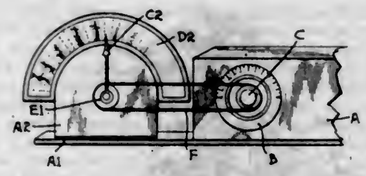
1. A machine of the class described having, in combination, means for supporting the forepart of a shoe, means for gripping the heel portion of the sole of a shoe, and means for moving the supporting and the gripping means to force a last into the forepart of the shoe while so held.

1,689,601. SOLE-FORMING MACHINE. JOHN H. RICHARDSON, Melrose, and ALBERT E. HUDSON, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed July 9, 1919, Serial No. 309,555. Divided and this application filed Nov. 28, 1922. Serial No. 603,821. 25 Claims. (Cl. 12—33.)



1. A machine of the class described having, in combination, a beater, a handle for moving the beater into and out of operative position, means for reciprocating the beater, and means constructed and arranged to actuate the beater reciprocating means when the handle is operated to move the beater into operative position.

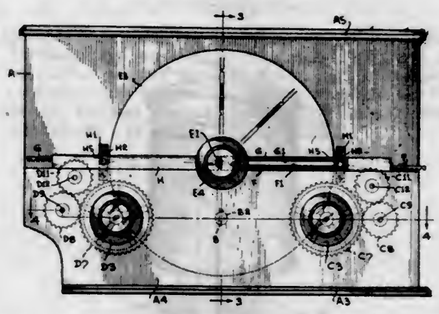
1,689,602. RADIO APPARATUS. ALFRED F. SANFORD, Knoxville, Tenn. Filed June 30, 1924. Serial No. 723,286. 4 Claims. (Cl. 116—129.)



1. In a radio receiving apparatus, the combination of a tuning shaft, a tuning knob on said shaft, a pointer support rotatable on an axis which is non-coincident with the tuning shaft axis, a pointer supported by said pointer support, a writing surface near the path of the free end of the pointer, and motion-transmitting connection between the pointer support and the tuning shaft.

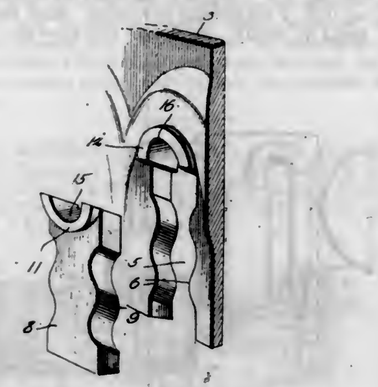
1,689,603. RADIO APPARATUS. ALFRED F. SANFORD, Knoxville, Tenn. Filed Aug. 18, 1925. Serial No. 51,066. 28 Claims. (Cl. 116—124.)

1. In an apparatus of the kind described, the combination of three independently turnable tuning shafts, a movable record-receiving member in operative relation with one of said shafts for movement therewith, two guide members movable independently of each other and supported near each other and in front of the face of the record-receiving member for movement transversely to the course of the record-receiving member and each bearing position indication, one of said guide members being in operative relation with the second of said shafts for movement simultaneously with the turning of said shaft, and the other



guide member being in operative relation with the third tuning shaft for movement simultaneously with the turning of said shaft.

1,689,604. ADJUSTABLE GRATE-BAR SUPPORT. CLAUDE IVY WALLIS and JOHN S. AMBROCK, Mobile, Ala. Filed Dec. 4, 1926. Serial No. 152,620. 1 Claim. (Cl. 308—37.)

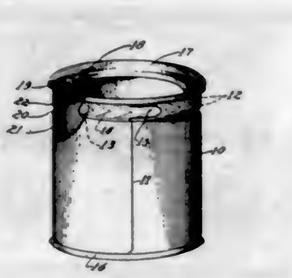


In a device of the class described, a plate-like support having an upwardly extended opening in its lower edge, and a bearing member in the opening, the upper end of the bearing member being spaced from the upper end of the opening to afford a place of journaling for a grate bar; the vertical longitudinal edges of the bearing member, and the corresponding members of the support, being provided with interengaged ribs which cooperate to hold the bearing member against dropping downwardly out of the opening, the bearing member tapering in width from front to back, and the longitudinal edges of the opening being correspondingly inclined from front to back, thereby to prevent the bearing member from sliding through the opening in a substantially horizontal direction, and the ribs slanting downwardly and inwardly to cause the bearing member to move rearwardly to a firm seat in the opening of the support.

1,689,605. METHOD AND APPARATUS FOR FORMING AN INTERIORLY-BEADED OR LOOPED TEARING-STRIP CAN. GEORGE FREDRICK WALTER, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New York. Filed Mar. 17, 1926. Serial No. 95,272. 21 Claims. (Cl. 153—9.)

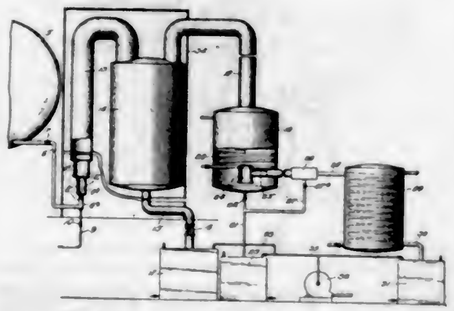
1. In an apparatus of the character described, the combination of a support, a clamping head comprising a holding member, means for shifting the same, clamping fingers car-

ried by said holding member and arranged to receive the can body end thereover and to hold the same rigidly and a stripping member carried by said clamping head, and mov-



able relatively thereto, said stripping member having means for engaging the can body end and forcing it from said clamping fingers.

1,689,606. ART OF DISTILLATION. GEORGE W. WATTS, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Apr. 3, 1925. Serial No. 20,415. 10 Claims. (Cl. 196—85.)



1. The method of distilling hydrocarbon oils wherein a stream of oil is introduced into a mixing device, steam is superheated and introduced into the mixing device while reducing its pressure, thereby causing an expansion of the steam simultaneously with the introduction of the oil, the steam supplying at least the heat required for vaporization of the desired proportion of the oil, the mixture of steam and oil is conveyed in constant flow through an externally unheated passage until substantially equilibrium conditions are attained at a predetermined temperature and pressure without separation, and the resulting liquids and vapors introduced into a chamber, from which the unvaporized liquids and vapors are separately withdrawn.

6. In apparatus for distilling hydrocarbon oils, an expanding mixer, means for supplying superheated steam and oil separately to the mixer, an unheated conduit into which the mixer opens, said conduit being of length sufficient to permit the admixed oil and steam to come to substantial equilibrium, means at the end of the conduit for separating vapors and unvaporized liquids, and means for maintaining the conduit at a pressure lower than that of the steam supplied.

1,689,607. INVERTASE PREPARATION AND METHOD OF PREPARING AND UTILIZING THE SAME. LEONARD WICKENDEN, Flushing, N. Y., assignor to John J. Naugle, Brooklyn, N. Y. Filed Nov. 6, 1925. Serial No. 67,463. 51 Claims. (Cl. 167—6.)

1. The method of preparing an invertase-containing preparation, which comprises heating yeast in the presence of a sugar.

15. The method of preparing an invertase-containing preparation, which comprises heating yeast in the presence of a sugar syrup, having a pH of from about 4 to about 5, at a temperature of from about 55 to about 65° C.

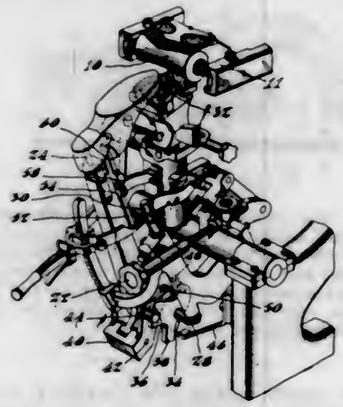
47. An invertase-containing preparation comprising an invert sugar medium containing therein invertase and being substantially free from alcoholic fermentation bodies, said preparation being sensibly acid.

1,689,608. PISTON RING AND PROCESS OF MAKING SAME. JOHN WILLIAMS and JUDSON WILLIAMS, Philadelphia, Pa. Filed Mar. 20, 1926. Serial No. 96,266. 2 Claims. (Cl. 74—109.)



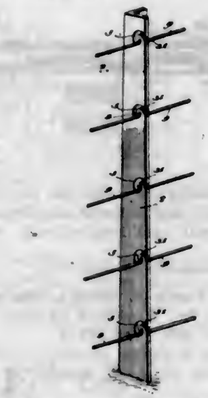
1. As a new article of manufacture, a piston ring forming element consisting of an endless circular cast metal band of substantially uniform width and thickness throughout its circumference, said band being of such thickness that it may be readily snapped at any point about its circumference.

1,689,609. SHOE-PRESSING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 14, 1925, Serial No. 23,051, and in Great Britain Apr. 22, 1924. 39 Claims. (Cl. 12—34.)



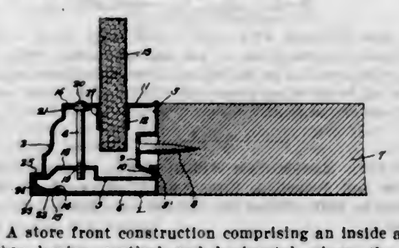
1. In a shoe pressing machine, a pressing tool, a last heel support, a last forepart support, and additional means for supporting a jointed last between said supports in the neighborhood of the joint between its heel and fore parts, said additional means being adjustable to effect operative contact with the last in a location between its opposite sides irrespective of the position of the last heightwise on said supports.

1,689,610. FENCE POST. CHRISTIAN WINTER, Oskaloosa, Iowa. Filed Nov. 17, 1926. Serial No. 148,885. 2 Claims. (Cl. 256—48.)



1. A fence post having an outstanding flange formed with a slot for the reception of a fence wire, said slot comprising an entrance portion in the edge of said flange with a substantially vertical body portion, and a plug adapted to close and frictionally engage with the edges of said entrance portion of the slot.

1,689,611. STORE-FRONT CONSTRUCTION. CHARLES B. YOUNG, Pittsburgh, Pa. Filed Oct. 25, 1927. Serial No. 228,615. 5 Claims. (Cl. 20—56.4.)



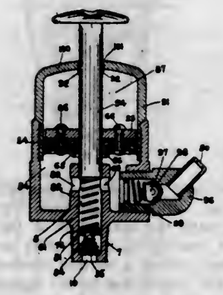
1. A store front construction comprising an inside angle member having vertical and horizontal wings, the vertical wing being provided with a downwardly opening groove, an outside member provided with an interior groove, an intermediate connecting member provided at the back with an upwardly extending flange and having a downwardly extending flange at the front, said flanges being interlocked with the said grooves, and a screw connecting the outside and intermediate members and maintaining the latter in interlocked relation with the inside and outside members.

1,689,612. CONTAINER. JOHN M. YOUNG, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 4, 1924. Serial No. 753,763. 6 Claims. (Cl. 220—54.)



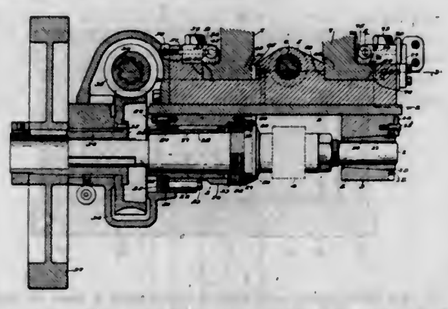
1. A can, comprising a body provided with score lines setting off an encircling tearing strip beneath the top, the body being in one piece with said tearing strip, a collar member arranged within the body and extending across the tearing strip, and a flexible hinge strip secured to the body beneath and above said tearing strip.

1,689,613. AUTOMATIC LUBRICANT CUP. OSCAR ULYSSES ZERK, Newark, N. J., assignor, by mesne assignments, to The Bassick Manufacturing Company. Original application filed July 5, 1923, Serial No. 649,703. Divided and this application filed Aug. 11, 1924. Serial No. 731,300. 10 Claims. (Cl. 184—38.)



1. A lubricant feeding device comprising a receptacle having an inlet, an outlet tube extending partly within the contour of said receptacle, ejecting means operating in said outlet passage, and a movable wall for separating a mass of lubricant from a body of air above said wall, said outlet tube forming an abutment to limit the movement of said wall.

1,689,614. SPINDLE-CARRIAGE GUIDE AND ADJUSTMENT. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed June 30, 1925. Serial No. 40,543. 3 Claims. (Cl. 90—4.)

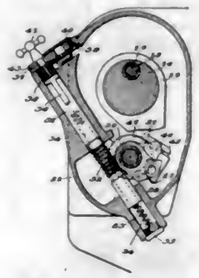


1. A machine combining two parallel T-rails; an E-shaped carriage interfitting directly against four of the guide-ways of said two T-rails and having four slide-ways in spaced opposition to the remaining four guide-ways of said two T-rails; and four adjustable bearing-blocks intervening between said spaced guideways, the four guide-ways of each T-rail being successively at right angles to form a rectangular contour.

1,689,615. SHAPER FEED MECHANISM WITH STATIONARY CONTROL. WILLIAM F. ZIMMERMANN, Maplewood, and HENRY HAUSER, Irvington, N. J., assignors to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Mar. 5, 1926. Serial No. 92,558. 13 Claims. (Cl. 90—39.)

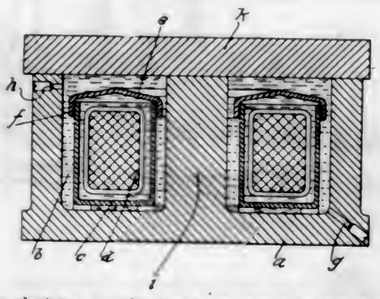
1. A shaper feed mechanism comprising a lever oscillated through a fixed arc; a pawl-lever having a portion thereof in the path of movement of the oscillating lever;

a fixed stop; means for adjusting the angular location of the position of rest of the pawl lever with relation to said fixed stop to vary the arc through which it is advanced by the oscillating lever; a feed shaft; and a pawl and ratchet operated by the pawl lever for operating the feed shaft.



10. A shaper feed mechanism comprising an oscillating lever; means for oscillating said lever through a fixed arc in accordance with the movement of the shaper ram; a pawl lever for controlling the feeding movements of the shaper table and having a portion thereof in the path of movement of the oscillating lever; means comprising an axially reciprocatable member engaging teeth on the pawl lever for determining the rotative position of the pawl lever; a stop for limiting the movement of said member; and means for exerting a force tending to hold pawl lever in engagement with the oscillating lever until disengaged by said stop.

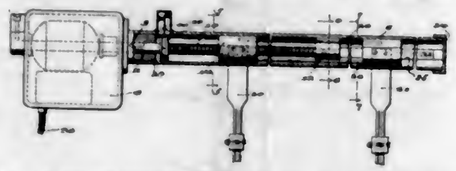
1,689,616. ELECTROMAGNETIC CHUCK. JULIUS BING, Eisenach, Germany, assignor to Magnet-Werk G. m. b. H. Eisenach, Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Filed June 3, 1924, Serial No. 717,657, and in Germany June 5, 1923. 2 Claims. (Cl. 175—367.)



1. An electro-magnetic chuck comprising a base of magnetic material provided with an annular channel extending downwardly from its top, a cover plate of magnetic material covering the channel, an annular open topped casing seated in said channel and spaced from the sides and bottom of said channel, a removable annular cover having inner and outer peripheral flanges and of inverted V-shape between said flanges, said cover resting on the open top of the casing with the flanges extending down the sides thereof, and a magnet winding in said casing and having its convolutions extending horizontally through said casing.

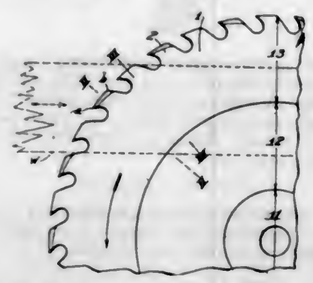
1,689,617. WINDSHIELD WIPER. JOSEPH BORNSTEIN, Boston, Mass., assignor, by direct and mesne assignments, to Sombco, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Oct. 17, 1927. Serial No. 226,784. 14 Claims. (Cl. 15—253.)

1. In a structure of the character specified, the combination of a support, a motor carried by said support and having a shaft, a feed screw carried by said support and being movable endwise with respect to the motor, there being a loose driving connection between said feed screw and said



shaft, a bearing enclosing the connection between said feed screw and said shaft, and a motor reversing mechanism having connection with said longitudinally movable feed screw.

1,689,618. SAW. JAMES F. BROWN, Shaler Township, Allegheny County, Pa. Filed July 22, 1927. Serial No. 207,613. 1 Claim. (Cl. 143—133.)



A saw provided with teeth whose front faces are perpendicular to the plane of cut and whose top edges, prolonged in the line of travel, are beveled transversely, the angle of bevel being greater at the forward than at the rear end of the tooth.

1,689,619. MONOGRAM STRUCTURE. MICHAEL CHERNOW and JOSEPH I. CHERNOW, Brooklyn, N. Y. Filed June 8, 1927. Serial No. 197,480. 3 Claims. (Cl. 40—140.)

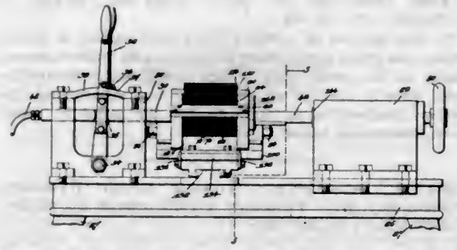


1. A monogram structure or the like, including a relatively thin base plate, the margin of the rear face of which is adapted to lie flat against a supporting surface, said rear face being formed with a shallow adhesive-receiving recess occupying substantially the entire area of the plate within the support-contacting margin, the front face of the plate having a shallow recess therein, and a flat character bearing unit of no greater thickness than the depth of said last mentioned recess, fitting and adhesively mounted therein, and protected laterally by the walls thereof.

1,689,620. APPARATUS FOR PRODUCING BELLOWS FOLDS IN TUBING. WALTER B. CLIFFORD, Framingham, Mass., assignor, by mesne assignments, to Clifford Manufacturing Co., Boston, Mass., a Corporation of Delaware. Filed Apr. 2, 1926. Serial No. 99,418. 28 Claims. (Cl. 153—73.)

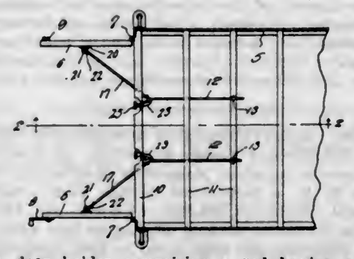
1. Apparatus for producing bellows tubing comprising a bed, a series of separable die plates slidingly supported upon the bed and having complementary openings for the reception of a tube therein, means for initially

positively spacing the die plates, means for locking individual die plates about the tube lengthwise, means for contracting the tube, and means for preserving substantial



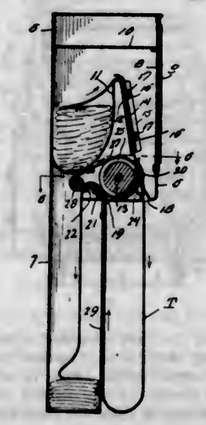
parallelism of the die plates during the contraction of the tube while permitting a relatively free movement of the die plates with the tube.

1,689,621. DOOR HOLDER. JOHN R. CLOVER, Enid, Okla. Filed June 14, 1927. Serial No. 198,751. 2 Claims. (Cl. 292—262.)



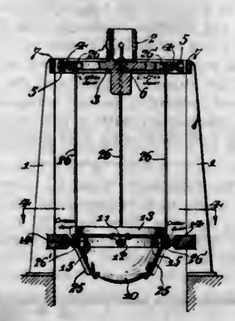
1. A door holder comprising a rod having an intermediate straight portion for attachment to the frame of the door at the opening thereof, said intermediate portion at one end thereof merging into a return bent offset portion, said offset portion merging with an angularly disposed guide portion, and a second rod having an eye receiving the guide portion of the first-mentioned rod, said eye adapted to enter said return bent portion of the first-mentioned rod and contact with the intermediate straight portion at the end thereof.

1,689,622. TOWEL CABINET. JOHN R. CLOVER, Enid, Okla. Filed Aug. 23, 1927. Serial No. 214,798. 3 Claims. (Cl. 312—38.)



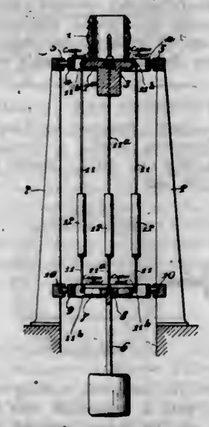
1. In a towel cabinet, a casing including an upper portion having a forwardly projecting part and a lower portion to receive soiled toweling, a receptacle for clean toweling in the rear of said upper portion of the casing, said forwardly projecting part of the casing having spaced transverse front and rear slots in the bottom thereof, a roller journaled in the lower portion of said forwardly projecting part of the casing between said slots, means to press the toweling against the front side of said roller before passing down through the front slot, means to press the toweling against the rear side of said roller after passing up through the rear slot, and means to direct the toweling rearwardly and downwardly from the rear side of said roller into said lower portion of the casing.

1,689,623. PENDULUM LENS APPARATUS. SVEN AUGUST ESKILSON, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 15, 1927, Serial No. 233,392, and in Sweden May 8, 1924. 10 Claims. (Cl. 9—8.3.)



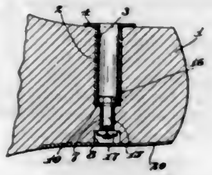
2. The combination of a pendulum structure, comprising swinging relatively movable parts, with fluid means interposed between said parts for retarding the relative movements between the same.

1,689,624. PENDULUM LENS APPARATUS. SVEN AUGUST ESKILSON and HUGO ABRAMSON, Stockholm, Sweden, assignors to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 15, 1927, Serial No. 233,393, and in Germany Mar. 12, 1927. 13 Claims. (Cl. 9—8.3.)



11. In a pendulum lens apparatus, the combination of a pendulum, a lens support, a connection between the said pendulum and the said support, which connection comprises a dash pot whereby relative movements between the pendulum and the said lens apparatus are retarded.

1,689,625. SHOE LAST AND METHOD OF MAKING THE SAME. ERNEST M. FULLERTON, Stoughton, Mass. Filed Dec. 13, 1926. Serial No. 154,410. 1 Claim. (Cl. 12—139.)



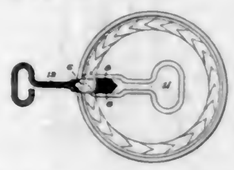
An improved last having a thimble recess and a recess of smaller diameter in alinement therewith, the last bottom having an enlarged counterbored opening in alinement with said smaller recess, a thimble having an opening through the bottom fitted in said thimble recess, a metallic tube of proportional length fitted in said smaller recess between the thimble recess and said counterbored opening, a bolt fitted through the tube and the opening in the thimble, and retaining means on each end of said bolt, one bearing on the thimble bottom and the other on said tube, one of said retaining means being removable and adjustable, in combination with a heel plate on the last bottom covering and protecting said counterbored recess.

1,689,626. OVER-THE-BED TABLE. GUSTAVE A. GALLOWITZ, New York, N. Y., assignor to The Kny-Scheerer Corporation of America, New York, N. Y., a Corporation of New York. Filed Sept. 21, 1926. Serial No. 136,764. 3 Claims. (Cl. 45—110.)



1. In a table adapted to stand over a bed a pair of base members, a pair of legs rigidly mounted thereon, a top mounted on said legs, means for raising and lowering said top to any desired height comprising rack bars supporting said top, said bars being mounted in each of the legs of said table in engagement with gears in gear casings at the upper ends of said legs, said gears being operated by intermediate gears in mesh with worm gears on a horizontal shaft passing through said gear boxes said shaft being operated by a crank and handle, means for revolving said top on a horizontal axis and means for securing it at any desired point in said revolution.

1,689,627. KEY-OPENING CAN. CHARLES W. GRAHAM, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Sept. 11, 1923. Serial No. 662,062. 5 Claims. (Cl. 220—52.)

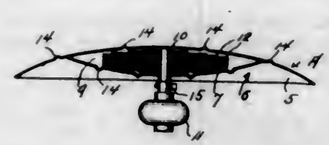


1. A cover for the hermetic sealing of metallic containers provided with a removable tear section situated within an area of the cover bounded by scored lines formed in the metal thereof and terminating in an inwardly extended tongue section which lies within an area bounded by scored lines in the metal and an opening key permanently united to the tongue extension section of the tear strip.

1,689,628. METHOD OF BONDING RUBBER TO METAL. HAROLD GRAY, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 27, 1927. Serial No. 187,113. 7 Claims. (Cl. 18—59.)

1. The method of bonding vulcanized rubber to metal which comprises superposing a vulcanizable rubber composition on the metal with a film comprising sulphurchloride, directly contacting the metal and vulcanizing the rubber composition in contact with the metal at usual heat vulcanizing temperatures.

1,689,629. ANTENNA. WILLIAM HENRY HAWORTH, Green Bay, Wis. Filed July 9, 1925. Serial No. 42,398. 3 Claims. (Cl. 250—33.)

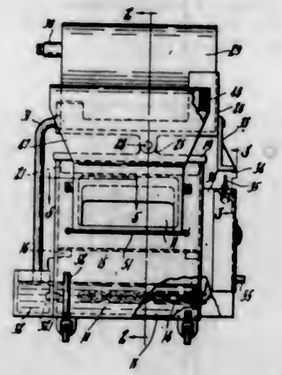


1. An antenna of the character described, comprising a body forming a chamber, a post extending centrally into said chamber and fastened to said body, and a series of metal plates within the chamber, and insulations disposed between said plates, said plates snugly embracing the post.

1,689,630. HEAT TREATING MAGNESIUM ALLOYS. ZAY JEFFRIES and ROBERT S. ARCHER, Cleveland, Ohio, assignors to American Magnesium Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Oct. 14, 1921. Serial No. 507,766. 6 Claims. (Cl. 148—11.)

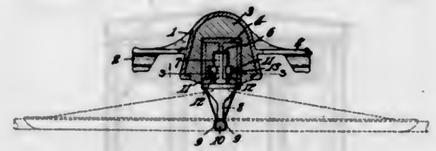
6. The process of working magnesium base alloys, comprising subjecting the solid metal to heat treatment at a high temperature for a period of hours but below the melting temperature of the most fusible constituent of the alloy to increase the plasticity of the alloy and thereafter mechanically deforming the alloy.

1,689,631. APPARATUS FOR CONDITIONING BOX TOES. MELVIN O. JENNINGS, East Lexington, Mass., assignor to Harry H. Beckwith, Brookline, Mass. Filed May 7, 1927. Serial No. 189,492. 6 Claims. (Cl. 12—1.)



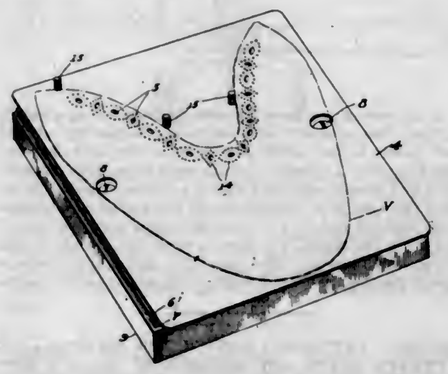
1. Apparatus of the class described, comprising a casing having a steaming chamber and an aperture for inserting work, means for supplying hot vapor to said chamber, and a cover on said casing having spaced upper and lower portions having a hollow space between them communicating with said steaming chamber, said lower portion having a sloping lower face.

1,689,632. HANGER FOR TROLLEY WIRES. EDWARD F. JOYCE, Wheeling, W. Va. Filed Sept. 16, 1926. Serial No. 135,793. 1 Claim. (Cl. 191—42.)



A trolley wire suspension device including a suspension member having a bell, a vertical socket in the bell, means to secure the socket to the bell, said socket having an internal annular channel forming shoulders, said channel communicating with the socket interior and disposed at a distance below the top of the socket and at a distance above the lower end of the socket and further having spaced longitudinal ways leading from its lower end into said channel, and a trolley wire engaging member having an upright post formed with lugs receivable in said ways and in the channel, said lugs being located at a distance above the lower end of the post and at a distance below the upper end of the post whereby said post has elongated parts engaging the socket both above and below the channel thereof.

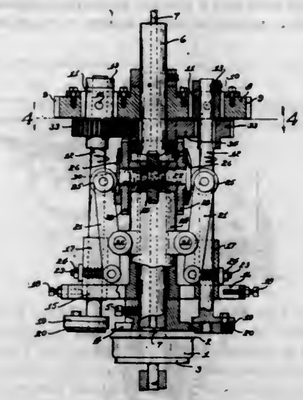
1,689,633. APPARATUS FOR MANUFACTURING ORNAMENTED SHOE UPPERS. HENRY B. LUPIEN, Manchester, N. H. Filed Aug. 26, 1925. Serial No. 52,530. 4 Claims. (Cl. 164—93.)



1. An apparatus of the character described comprising a die for cutting leather to produce a desired pattern, a plate having projections thereon for making lines of indentation in the leather in a definite relationship to the pattern cut by said die, supporting means for holding said die and plate in operative relationship to each other with said die projecting through said plate, cushioning means between said support and plate permitting the plate to yield relatively to the die, and yieldingly supported pins projecting through said plate for gaging the position of the work relatively to said die and said projections.

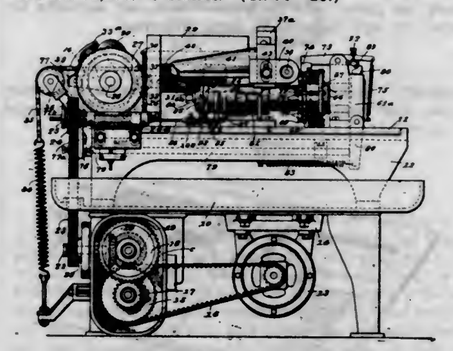
1,689,634. OVAL-GEAR DOUBLE-SEAMER HEAD. JOHN OSCAR MALMQUIST, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed June 21, 1926. Serial No. 117,303. 7 Claims. (Cl. 113—24.)

1. In a can seaming machine, a chuck member and a head member, one of said members being rotatable, and said chuck member being adapted for engagement with the end of a non-circular can; a seaming roll carried by the head member and adapted for rolling contact with the periphery of the can; and means including a gear



having an eccentric axis for rotating said seaming roll with a varying speed corresponding to its natural rotation in traveling around and in contact with the periphery of the can.

1,689,635. MILLING MACHINE. NEWMAN M. MARSILIUS, Bridgeport, Conn., assignor, by mesne assignments, to The Producto Machine Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 14, 1925. Serial No. 75,276. 5 Claims. (Cl. 90—15.)

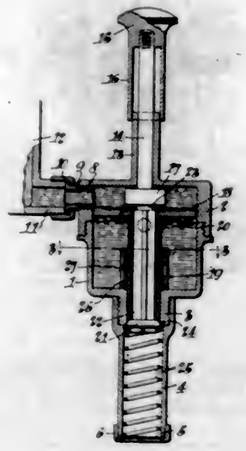


1. In a milling machine, a frame, a slide mounted for reciprocating movement in said frame, a bearing carried by said slide, a spindle having one end mounted in said bearing, a cutter on said spindle, an offset arm on said slide, said arm carrying a bearing receiving the other end of the spindle so that the cutter is arranged between two bearings and steadied thereby, and a work holder arranged in advance of the spindle and toward and away from which the spindle and cutter are adapted to be moved as the slide is reciprocated.

1,689,636. DISPENSING VALVE. WILLIAM MILDER, Omaha, Nebr., assignor to Victor Valves, Inc., Omaha, Nebr., a Corporation of Nebraska. Filed Oct. 14, 1927. Serial No. 226,147. 6 Claims. (Cl. 221—113.)

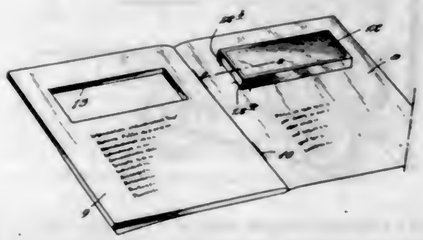
1. In a device of the class described, a hollow casing having a cylindrical liquid receiving chamber, means to deliver liquid to the chamber, a tubular neck depending from the casing, a piston slidable in the chamber and having a tubular stem fitting slidably in said neck, said tubular stem having a valve seat in its lower end and ports adjacent

the piston and adapted to communicate between the chamber beneath the piston and the interior of the tubular stem at times, a lower valve member adapted to seat on the tubular stem seat and having a non-circular stem slide-guided in said tubular stem and a portion projecting slightly above the piston top, a spring normally acting to force the lower



valve member upwardly to hold it to its seat, a plunger, a guide for the plunger carried by the casing, and an upper valve carried by the plunger and adapted at times to seat on the piston to close communication from the chamber above the piston into the tubular stem but normally unseated by said lower valve stem projection.

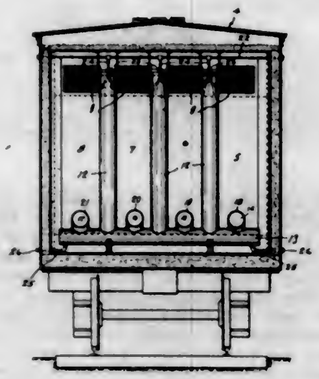
1,689,637. ADVERTISING DEVICE. WALTER C. MORDECAI, Kew Gardens, N. Y. Filed Sept. 18, 1923. Serial No. 663,414. 4 Claims. (Cl. 281—3.)



1. An advertising device comprising a pamphlet having front and back cover sections, a plurality of leaves adapted to bear descriptive matter secured between said front and back cover sections, and a container for samples detachably secured to the inner face of the back cover section, said container protruding through the leaves and front cover section of the pamphlet.

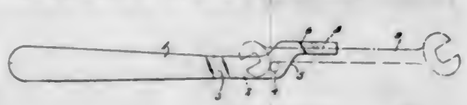
1,689,638. METHOD OF REFRIGERATING CARS AND CAR FOR PERFORMING SAID METHOD. ROBERT BRUCE MUSSER, Seattle, Wash. Filed May 19, 1924. Serial No. 714,275. 1 Claim. (Cl. 62—24.)

A refrigerator car embodying an ice box; air circulating and cooling devices adjacent said ice box, consisting of a plurality of upright cylinders having open top ends spaced from the top of the car and their lower ends connected to a collecting header, said header having air outlet connections opening above said header and a brine outlet connection, and means for delivering a cold brine in the form of downwardly directed jets into each cylinder, whereby warm air from the top of the car is drawn into the tops of said



cylinders and discharged at the bottom of the car in cooled condition through said air outlet connections by the injector action of said jets.

1,689,639. EXTENSION HANDLE FOR WRENCHES. HARRY D. NEFF, Newport, Pa. Filed May 15, 1928. Serial No. 278,010. 2 Claims. (Cl. 81—180.)



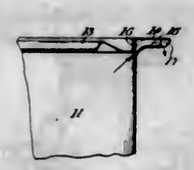
1. An extension handle for wrenches comprising a handle portion, two parallel sides extending forwardly of and each united to the handle portion by a relatively short inclined portion, a crossbar uniting said sides, said crossbar, sides and handle portion forming a recess of a size to receive the head of a wrench, the forward ends of said sides being inclined inwardly to a union having a groove therein to receive the shank of a wrench whose head seats in said recess, said crossbar, sides and union forming a recess to permit the passage therethrough of the head of said wrench.

1,689,640. FASTENING DEVICE FOR WRIST-WATCH STRAPS, BANDS, AND BRACELETS. ALMYR L. NEWMAN, Warwick, R. I., assignor to A. L. Newman Company, Providence, R. I., a Corporation of Rhode Island. Filed Aug. 3, 1926. Serial No. 126,803. 5 Claims. (Cl. 24—71.)



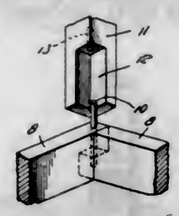
1. In a device of the type specified, the combination of hinged members adapted to be folded together in overlying relation, means for attaching one end of a strap, band, or bracelet to the free end of one member, means on the free end of the other member for adjustably fastening the other end of the strap-length thereto, a positively acting slidable latch on one member adapted to engage the other member to lock said members in overlying relation, and manually-operable means for sliding said latch to release the lock to permit extension of said members.

1,689,641. METHOD AND MEANS OF VACUUMIZING AND DOUBLE SEAMING. CHARLES PICKLES, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Oct. 8, 1923. Serial No. 667,320. 16 Claims. (Cl. 113—82.)



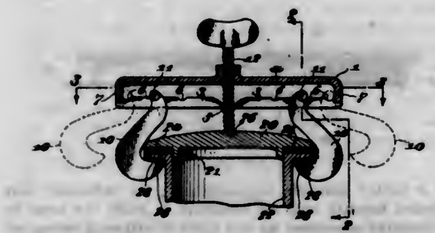
1. In combination a metallic container provided with an annular double seaming flange, a can cover adapted to fit the container and having an annular flange portion adapted to overlie and interlock with the flange of the can body, and spaced depressions formed in the flange of the can cover for supporting the can cover upon the flange of the metal container and to provide space between the lower surface of the flange of the container, said depressions being arranged about said flange and spaced apart from each other.

1,689,642. SECTIONAL-BUILT PORTABLE HOUSE. GEORGE W. RAFFLEYEA, New Orleans, La. Filed Mar. 14, 1927. Serial No. 175,189. 3 Claims. (Cl. 20—2.)



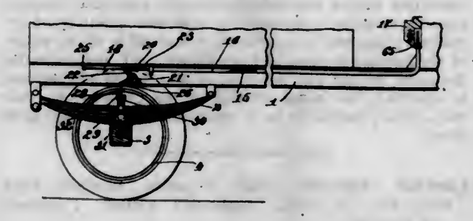
1. In a structure of the class described, in combination, a supporting pier, a pair of right angularly disposed sills having their adjacent ends notched to provide extensions, said extensions being disposed in overlapping and interconnected relation, and a vertically extending post resting partly on said pier and partly on said sill, and having a recess for accommodating adjacent end portions of said sills.

1,689,643. HOLDING DEVICE. ALFRED J. RUDOLPH, Philadelphia, Pa. Filed July 2, 1923. Serial No. 649,187. 9 Claims. (Cl. 220—57.)



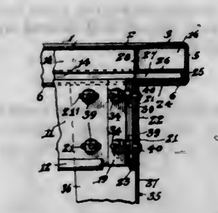
1. A device of the character described, comprising an elongated rigid member having hook members connected therewith, which hook members are adjustable both bodily and pivotally toward and from each other lengthwise of the said elongated rigid member and means for effecting engagement of the said device with an object.

1,689,644. LOAD-MEASURING DEVICE. FREDERICK J. TROLL, Baltimore, Md., assignor to The Loadmeter Company, a Corporation of Delaware. Filed May 8, 1922. Serial No. 559,151. 7 Claims. (Cl. 265—42.)



1. In a road vehicle having a body and wheels, springs for supporting the vehicle body on the wheels, a flexible thrust rod and means for communicating to the thrust rod the variation in relative position between the vehicle body and the wheels due to flexing of the springs, and an indicating instrument reading in terms of the load connected to said thrust rod to be actuated thereby.

1,689,645. TABLE. HEINRICH TURK, Lutherville, Md., assignor to The Porcelain Enamel & Manufacturing Co., Baltimore, Md. Filed Aug. 25, 1926. Serial No. 131,413. 8 Claims. (Cl. 45—31.)



5. In a table, the combination with a top having a depending rim terminating in an inwardly extending flanged portion vertically disposed sheet metal side and end members engaging said top, each of said members having integrally formed projections thereon contacting with said depending rim and top for reinforcing said top and coupling the same to said members, and means for removably securing said members together to lock the same in firm engagement with the top.

1,689,646. COVER PLATE FOR CABLE CHANNELS AND THE LIKE. RUDOLF TUTSCH, Berlin, Germany. Filed Apr. 22, 1927, Serial No. 185,840, and in Germany Apr. 23, 1926. 4 Claims. (Cl. 94—34.)

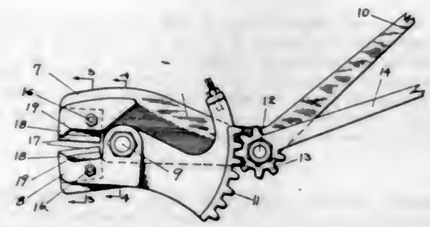


1. A cover plate comprising a frame of angle metal having an upright outer web and lower inner web; a corrugated plate in said frame having its margins resting on said lower flange; and a hardened mass of plastic material adhered to and filling the corrugations of said sheet and filling the part of the frame above said sheet.

1,689,647. ACTIVE CARBOMINERAL PRODUCT. EDOUARD URBAIN, Paris, France, assignor to Urbain Corporation, a Corporation of Delaware. Filed May 5, 1926, Serial No. 106,933, and in France June 25, 1925. 2 Claims. (Cl. 252—3.)

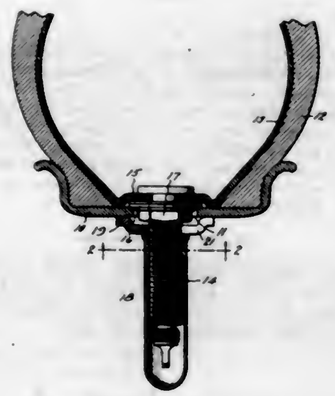
1. The method of making an absorptive material which comprises mixing together carbonizable vegetable material, mineral material comprising a sufficient quantity of tricalcium phosphate to constitute at least 25% of the weight of the finished product and phosphoric acid, agglomerating the mass, drying and calcining at a sufficient temperature to eliminate the major portion of the phosphorus, other than such phosphorus as is combined in a tri-basic phosphate.

1,689,648. SHEARS. JOHN VOLESKE, Portland, Oreg. Filed Feb. 15, 1926. Serial No. 88,462. 2 Claims. (Cl. 164—81.)



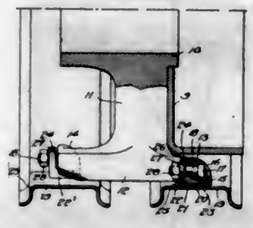
1. In a shear: pivotally mounted jaws; knives mounted upon said jaws; guards projecting from said jaws at the extreme ends of said knives, and filleted upon said jaws towards the pivotal point thereof.

1,689,649. RIM WITH VALVE-STEM FASTENER. JAMES H. WAGENHORST, Jackson, Mich. Filed Jan. 26, 1925. Serial No. 4,906. 5 Claims. (Cl. 152—20.)



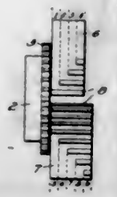
2. The combination of a tire carrying rim having a valve stem opening, a valve stem projecting through said opening and carrying an element adapted to contact with the rim, a cap carried by the valve stem and adapted to pass through said opening with the latter, and a member carried by the rim and adapted to be removably interposed between said cap and rim and engageable by said cap to hold said element in contact with the rim and prevent movement of the valve stem in said opening.

1,689,650. AUTOMOBILE WHEEL. JAMES H. WAGENHORST, Jackson, Mich. Filed July 6, 1925. Serial No. 41,834. 5 Claims. (C. 301—12.)



1. In a wheel, a cast metal wheel body comprising a plurality of spokes having cross-arms at the outer ends thereof, said cross-arms being provided with rim-seating surfaces arranged in two sets, one in front of and the other in rear of the central plane of the wheel, the surfaces of one set being staggered with respect to the surfaces of the other set.

1,689,651. SELECTING MECHANISM FOR CALCULATING MACHINES. EDWARD CLAXTON WALTER, Orange, N. J., assignor to The Elliott-Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 21, 1925. Serial No. 24,771. 11 Claims. (Cl. 235—82.)



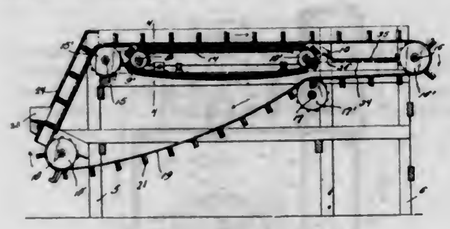
1. In a calculating machine, the combination with a denominational member, of a plurality of selectors adapted to operate said member and movable in the same direction to different set positions.

1,689,652. TABLE. ANDREW F. WARNOCK, Portland, Oreg., assignor of one-third to Thomas Tesdal, Portland, Oreg. Filed Apr. 6, 1926. Serial No. 100,084. 1 Claim. (Cl. 45—112.)



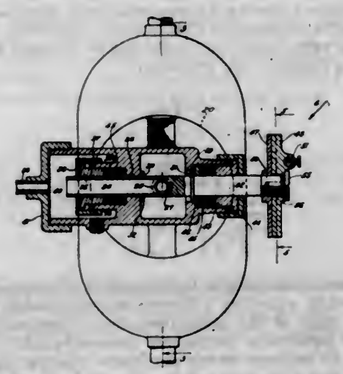
In a table: movable top members; an extension leaf positioned beneath said top members to guide the same in their relative movement as the table is extended when not in use; coacting slides for said members; coacting notches in said slides to receive said leaf and adapted to raise the leaf when said slides are operated; a shaft journaled in said slides; a cam upon said shaft adapted to position the raised leaf intermediate said top members; a lever upon said shaft; and a rod connected to said lever for operating said shaft.

1,689,653. FRUIT CLEANING AND POLISHING MACHINE. EDWIN M. WAYLAND and ALLAN H. MCINTYRE, Covesville, Va. Filed May 14, 1927. Serial No. 191,418. 4 Claims. (Cl. 146—202.)



1. In a fruit or vegetable cleaner, and in combination, a belt having a brush surface, and a second belt having transverse spaced combined flights and brushes, said belts also having runs in substantial parallelism, and the faces of the combined flights and brushes of the second named belts in the said run thereof being disposed angularly to and above the brush surface in said run of the first named belt and exposed to and adapted to contact with fruits or vegetables supported on said surface.

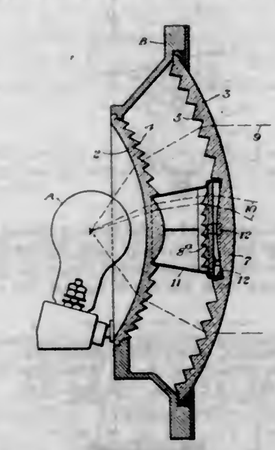
1,689,654. LIQUID-LEVEL CONTROL FOR PRESSURE TANKS. EDWIN C. WEISGERBER, Los Angeles, Calif., assignor to Petroleum Appliance Syndicate, Los Angeles, Calif., a Business Trust. Filed Sept. 14, 1925. Serial No. 56,250. 6 Claims. (Cl. 137—68.)



1. For use in a liquid level control for pressure tanks, a valve control organization comprising: a float chamber; means rendering said float chamber communicative with a pressure tank; a bearing member formed in said float chamber having an inner chamber, an outer recess and a shaft receiving aperture therein; a shaft rotatably mounted in said aperture having a hollow end, extending into said recess; a float mounted in said chamber; a tubular element mounted between said float and said shaft forming internal communication between said float and the hollow end of said shaft; and adjustable means operable by said shaft for operating a control valve.

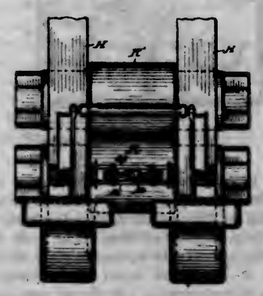
1,689,655. LIGHT SIGNAL. WESLEY B. WELLS, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1925. Serial No. 17,032. 4 Claims. (Cl. 177—329.)

4. In a railway light signal comprising a source of light and a doublet made up of two echelon lenses for projecting a beam of parallel rays from said source to a distant point, the steps on the inner lens being on the outer surface thereof and the steps on the outer lens being on the inner surface thereof, the combination with the foregoing elements, of a tube one end of which fits into the center step



of the inner lens and the other end of which fits into the center step of the outer lens, and a prismatic screen mounted in said tube for projecting a portion of the rays from said source downwardly to provide an indication to an observer close to the signal.

1,689,656. ROLL POLISHER. JOHN D. WILLIAMS, Niles, Ohio. Filed Apr. 6, 1926. Serial No. 100,031. 11 Claims. (Cl. 80—1.)

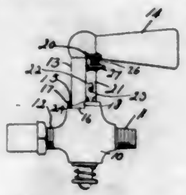


1. In combination with a rolling mill, a roll polishing device comprising a polishing block, a guide, a holder for the block mounted in the guide and adapted for reciprocation with respect thereto, means for supporting the guide between the housings of the mill adjacent one of the rolls thereof, said means being adapted to permit limited movement of the guide to and from the roll, means for reciprocating the holder in the guide to move the block back and forth longitudinally of the roll, and yielding means connected with said supporting means and with the guide operative to continually urge the guide forwardly toward the roll so as to maintain the block in operative engagement therewith.

1,689,657. LOCKING VALVE FOR GAS BURNERS. CHARLES E. WISE, Philadelphia, Pa. Filed Aug. 1, 1927. Serial No. 209,772. 1 Claim. (Cl. 251—164.)

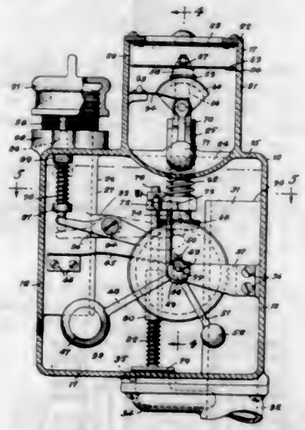
A locking valve for gas burners comprising a valve body having a slot and notch in its upper edge, a valve stem, a pin projecting from the stem into the slot, a guideway longitudinally of the stem, a lug at the outer end

of said guideway, a latch slidably mounted in the guideway and provided with a nose for registration with the notch when the valve stem is in a closed position and riding on the edge of the valve body when in other positions, a



finger hold at the outer end of the latch, a spring between the lug and finger hold to normally force the latch inward, and a handle on the stem to rotate the same when the latch is withdrawn from the notch against the action of the spring.

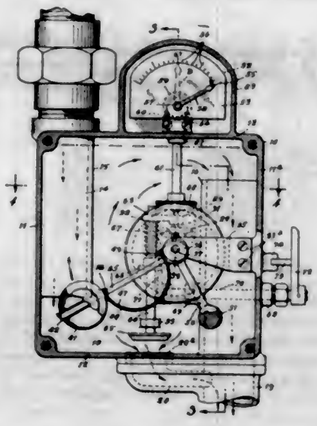
1,689,658. SPECIFIC-GRAVITY REGISTER. WALTER J. ALBERSHEIM, New York, N. Y. Filed Nov. 13, 1925. Serial No. 68,864. 8 Claims. (Cl. 265—44.)



1. A specific gravity register, comprising a casing having provision for flow of liquid therethrough and for retaining a portion of the liquid during its flow, a counterbalanced rotatively supported displacing body in the casing whose specific gravity is approximately similar to the specific gravity of the liquid when of a standard density, said body being submerged in the liquid for being moved by the buoyant effort of the retained liquid when of a density varying from its known standard, means operative by the body when moved to indicate the relative difference of density of the liquid, and means for closing the inlet of the casing and to remove the body from its support and for yieldingly holding the body in its separated position.

1,689,659. SPECIFIC-GRAVITY INDICATOR. WALTER J. ALBERSHEIM, New York, N. Y. Filed Nov. 13, 1925. Serial No. 68,865. 10 Claims. (Cl. 265—44.)

1. A specific gravity indicator, comprising a casing having an inlet and an outlet relatively arranged for flow of liquid therethrough and for retaining a portion of the liquid during its flow, a slidable rotatively supported counterbalanced air chamber in the casing of a weight whose specific gravity is about equal to the specific gravity of the liquid when of a standard density, said air chamber being submerged in the retained liquid for being rotatively moved by the buoyant effort of the liquid when of a density varying from its known standard, means operative with the rotary movement of the air chamber to indicate the relative difference of density of the liquid, and means associated with the air chamber for being made effective by the influence of change of the standard temperature of the



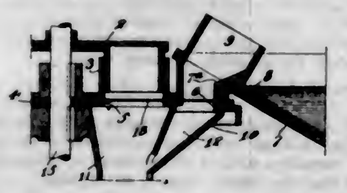
liquid to slidably adjust the air chamber for keeping the indicating means in its normal position at all temperatures of the liquid.

1,689,660. METHOD AND ARRANGEMENT FOR COMPARATIVE ALTERNATING-CURRENT MEASUREMENTS. DIETER ALBRECHT, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Jan. 29, 1925, Serial No. 5,541, and in Germany Feb. 2, 1924. 4 Claims. (Cl. 171—95.)



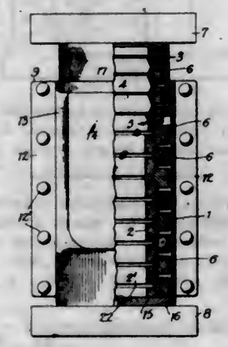
3. In measuring circuits for measuring alternating current values by adjusting a known measured value to an unknown value of the same character in combination a regulating resistance, means for measuring the known value and an indicator of the watt-meter type having fixed field coils and a movable coil, and circuit connections for affecting the ampere turns of both sets of coils by the currents resulting from the known and the unknown value.

1,689,661. CAN-FILLING MACHINE. CHARLES H. AYARS, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J. Filed June 11, 1924. Serial No. 719,268. 5 Claims. (Cl. 226—97.)



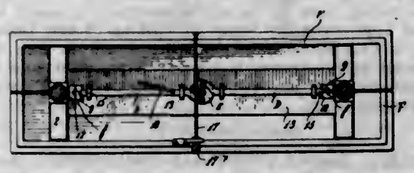
1. In a can filling machine, a distributing wheel having a plurality of measuring cups for granular material; a distributing wheel for liquid material; a bed plate for the granular distributing wheel having openings for discharge of granular and liquid material; a cut-off plate normally closing both openings, and means actuated by the cans for clearing the openings.

1,689,662. CUSHIONING OR SHOCK-ABSORBING DEVICE. FRANK B. BELL and OSCAR R. WIKANDER, Pittsburgh, Pa., assignors to Edgewater Steel Company, Pittsburgh, Pa. Filed Apr. 21, 1927. Serial No. 185,557. 16 Claims. (Cl. 267—4.)



1. A cushioning or shock absorbing device comprising a stiff main backing spring of ring spring type, and a relatively weaker precessional spring or ring spring type frictionally coupled to the backing spring for initially receiving and transmitting a force to said backing spring.

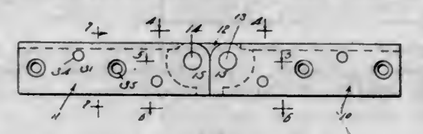
1,689,663. LATCHING MEANS FOR ADJUSTABLE TABLES. JOSEPH COOPER, New York, N. Y. Filed Feb. 10, 1927. Serial No. 167,089. 2 Claims. (Cl. 45—9.)



1. In latching means for adjustable tables, comprising two opposed table top units and a third top unit normally disposed above said first named top units, of a supporting member connected to the third top unit and projecting upwardly between the first named units, a spring acting upon said supporting member, a pawl adapted to engage a shoulder formed on said supporting member, a rotatable actuator, a link connecting the pawl with the rotatable actuator, and means for manually imparting movement to the actuator.

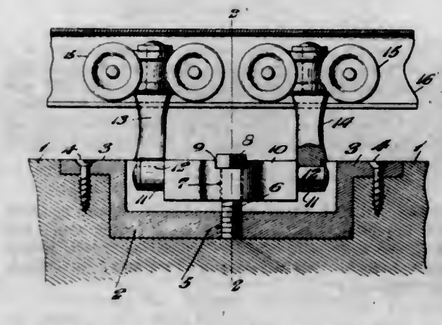
1,689,664. HINGE. ERNEST G. COVELL, Los Angeles, Calif., assignor to Cameo Refrigerator Corporation, Los Angeles, Calif. Filed Aug. 3, 1927. Serial No. 210,265. 5 Claims. (Cl. 16—163.)

1. A hinge including two sections, one having a segmental part, the other having a part projecting from its end, a pivot pin connecting the segmental part and projecting part, the end of said other section having a concave portion fitting the segmental part, shoulders at the ends of the segmental part, and shoulders at the ends of



the concave portion, the shoulder on the two sections being related to engage simultaneously to stop movement of the sections.

1,689,665. SLIDING-DOOR HANGER. WILLIAM P. CRAMP, Philadelphia, Pa. Filed Feb. 9, 1927. Serial No. 166,904. 2 Claims. (Cl. 16—103.)



1. In a structure of the character stated, a sliding door the top of which is cutaway, a dished member fitted to said cutaway portion and having a threaded opening in its bottom, a wheeled member arranged to travel upon a track, a pair of independent pendant arms carried by said wheeled member, each arm having a single bearing and provided with a pair of wheels, a tiltable, solid block having pintles arranged in said bearings and having an opening in alignment with said threaded opening, and a bolt extended through said block and directly engaging said threaded opening.

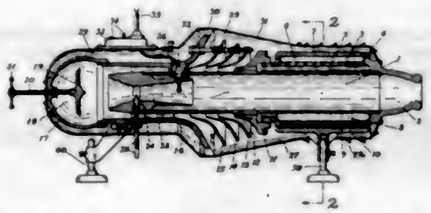
1,689,666. METHOD OF TRANSMITTING PICTURES AND SENDING PLATE THEREFOR. MARVIN FERREE, New York, N. Y., and JOSEPH WISSMAR, Cleveland, Ohio, assignors, by direct and mesne assignments, to Picture Transmission Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 28, 1925. Serial No. 5,258. 1 Claim. (Cl. 178—5.)



A method of transmitting a picture which consists in producing a series of electric pulses corresponding to the differences in light value of the successive small areas of said

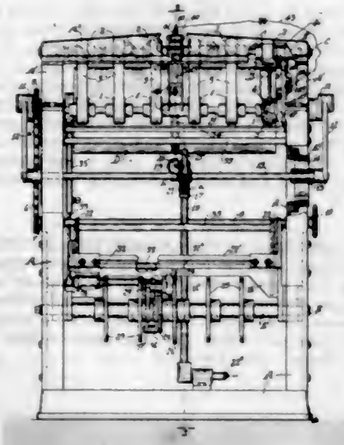
picture, and producing electric pulses of the type which substantially correspond to a pure white tone in transmitting the small areas which correspond to light grey tone.

1,689,667. LIQUID-FUEL COMBUSTION. WALTER H. FREE, New Rochelle, N. Y. Filed Oct. 15, 1926. Serial No. 141,789. 23 Claims. (Cl. 158—73.)



1. In a hydro-carbon fuel burner, the combination of a flame chamber, a steam generator adapted to be heated by said flame chamber, a fuel carbureter discharging into said flame chamber, a steam-operated air suction means encircling said chamber and discharging into said carbureter, and means disposed in said chamber for igniting the resultant combustible.

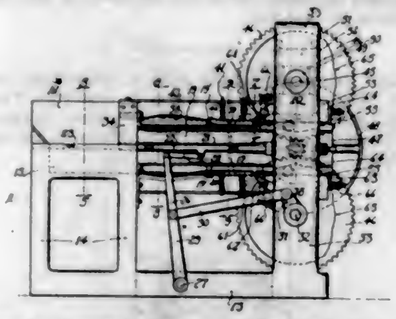
1,689,668. BLANK-FEED MECHANISM. JAMES A. GRAY, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed June 4, 1924. Serial No. 717,853. 28 Claims. (Cl. 271—31.)



1. An apparatus for the described purpose comprising a holder adapted to contain a stack of blanks, means for initially separating successively the lower edges of said blanks and re-stacking them within said holder; and means for successively removing the re-stacked blanks from said holder.

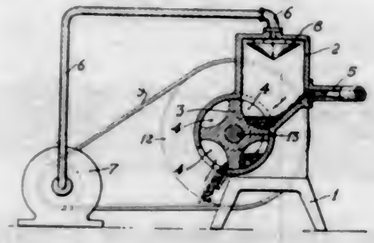
1,689,669. APPARATUS FOR INTERLOCKING AND UNITING THE HOOKED EDGES OF BLANKS TO FORM CAN BODIES. JAMES A. GRAY, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Nov. 12, 1924, Serial No. 749,497. Renewed Mar. 26, 1928. 37 Claims. (Cl. 113—8.)

1. A machine for the described purpose comprising means for receiving a pair of separate blanks having hooked flanges capable of mutual inter-engagement, a horn having means for causing the inter-engagement of said flanges,



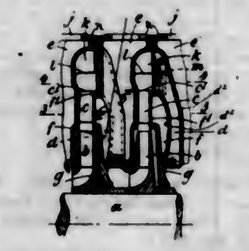
means for feeding the sheets along the horn so as to be inter-engaged by their hooked flanges, and means for clinching the inter-engaged flanges to unite the two blanks.

1,689,670. ENTRAIL-COLLECTING MEANS FOR EVISCERATING APPARATUS. JAMES A. GRAY, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Aug. 18, 1925. Serial No. 50,897. 2 Claims. (Cl. 302—59.)



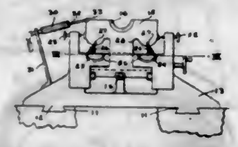
1. In an entrail collecting apparatus the combination of a container, an entrail conductor entering said container at a point above the bottom of the same, an air exhaust pipe leading from the top of the container, a smooth surfaced baffle depending below the opening of said exhaust pipe, and having an annular air space around the same, and a rotary pocketed valve in air-tight engagement with the bottom part of the container and operating to remove viscera therefrom.

1,689,671. TURBO AIR OR GAS COMPRESSOR. ALEXANDER JUDE, Birmingham, England, assignor to Bellias and Morcom Limited, Birmingham, England, a British Company. Filed Apr. 9, 1927, Serial No. 182,263, and in Great Britain May 31, 1926. 5 Claims. (Cl. 230—209.)



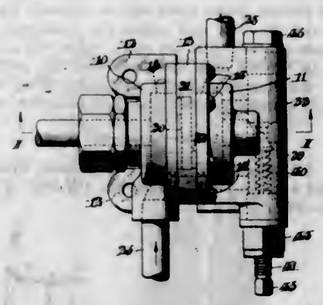
1. In a turbo gas compressor, a casing formed with an outer water cooling chamber, a plurality of impellers in said casing, said casing being formed with a diffuser and a return channel leading from one said impeller to the next impeller, walls of said return channel separating said outer water chamber from an inner water cooling chamber between said diffuser and said return channel, and approximately radial webs formed with approximately radial passages communicating with said outer and inner water chambers interconnecting said walls.

1,689,672. BALANCING MACHINE. ALEXANDER T. KASLEY, Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 10, 1924. Serial No. 705,619. 15 Claims. (Cl. 73—51.)



1. In a balancing machine, the combination of a vibratory supporting member for a body to be balanced, springs inclined and connected at opposite sides of the supporting member, and common means for simultaneously changing the effectiveness of the springs.

1,689,673. GEAR PUMP. JAMES D. LALOR, Baltimore, Md., assignor to The Lalor Fuel Oil System Company Inc., Baltimore, Md., a Corporation of Maryland. Filed June 13, 1925. Serial No. 36,860. 1 Claim. (Cl. 103—126.)

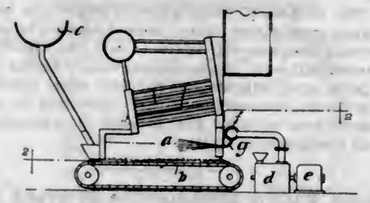


A multi-stage gear pump comprising complementary parts with an intervening ported partition affording housing for independent fluid-displacing gear sets, said partition having a passage therethrough connecting the intake side of the high pressure stage and delivery side of the low pressure stage of the pump sequentially and continuously, a by-pass between the intake space adjacent the low pressure gear set and the delivery space proximate the high pressure gear set having an obstructive ported partition, a spring-pressed relief valve in the by-pass normally preventing flow through the ported partition but adapted to automatically establish local circulation between the intake and delivery sides aforesaid for relief of back pressure on the pump, a stuffing box threaded in the wall of said by-pass, a tubular adjusting screw threaded in the stuffing-box, said valve including a stem afforded guidance in said tubular adjusting screw, and a spring interposed between said valve and said adjusting screw, whereby provision is made for varying the power of the spring and for removal of the valve as a unit.

1,689,674. COMMERCIAL BLASTING EXPLOSIVE. RALPH AUSTIN LONG, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed May 13, 1925. Serial No. 30,087. 2 Claims. (Cl. 52—11.)

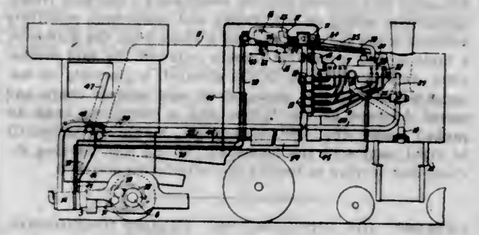
1. A blasting explosive of the character described, comprising nitro-glycerine up to 8%, ammonium nitrate, trinitrotoluene and a non-explosive combustible, the nitroglycerine and the trinitrotoluene complementally constituting a sensitizer not in excess of 12 per cent of the whole, and in which the nitroglycerine is in excess of the trinitrotoluene.

1,689,675. FURNACE BURNING PULVERIZED FUEL. WARNER LULOFS, Amsterdam, Netherlands. Filed Oct. 18, 1923, Serial No. 669,263, and in Great Britain Oct. 23, 1922. 1 Claim. (Cl. 110—40.)



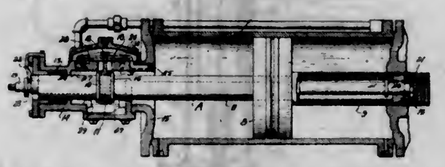
In combination with a boiler furnace having an offtake above the rear of the furnace chamber and a traveling grate adapted to carry the burning fuel toward the rear of the furnace, a plurality of fuel jet pipes projecting through the rear wall of the furnace above the grate, adjacent the path of exit of the stream of furnace gases, and adapted to deliver jets of pulverized fuel into said gas stream.

1,689,676. LOCOMOTIVE BOOSTER. FREDERICK W. MARTIN, Bronxville, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Oct. 31, 1923, Serial No. 671,839. Renewed Sept. 27, 1926. 11 Claims. (Cl. 105—45.)



1. The combination with a locomotive and a booster, of superheating means for the locomotive steam supply, and means for passing separately therethrough the steam supply for the booster when the latter is in operation.

1,689,677. POWER-REVERSE GEAR. FREDERICK W. MARTIN, Brooklyn, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Jan. 27, 1925. Serial No. 5,038. 8 Claims. (Cl. 121—41.)



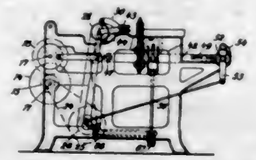
1. In a servo-motor power reverse gear, a cylinder, a piston having a hollow internally threaded rod, a controlling valve, and an operative connection between valve and piston comprising a rotatable sleeve having a head having threaded engagement with the rod and a rod extending through the sleeve and keyed to the head for turning the sleeve.

1,689,678. METHOD OF MAKING PILES. ARTHUR MAUTERER, Dortmund, Germany. Filed Apr. 20, 1925. Serial No. 24,398. 5 Claims. (Cl. 29—155.)



1. The method of constructing a metal pile having a full wave cross-section, which method consists in separately forming complementary parts of said pile with oppositely curved half-wave cross-sections, and in rigidly uniting said parts along adjoining longitudinal edges thereof with the half-wave cross-sectioned parts extending in opposite directions from the rigid joint between the adjoining edges of said complementary parts.

1,689,679. MACHINE FOR SORTING BRISTLES, HAIRS, FIBERS, AND THE LIKE ACCORDING TO DESIRED LENGTHS. KARL MAUZ, Wurttemberg, Germany. Filed Feb. 12, 1925, Serial No. 8,693, and in Germany May 21, 1924. 6 Claims. (Cl. 300—18.)



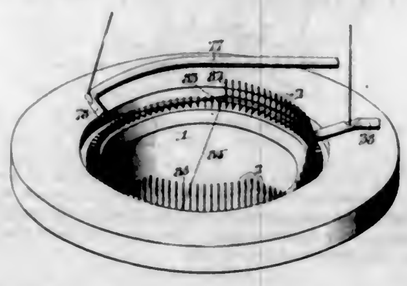
1. A machine for sorting bristles, hairs, fibers and like filaments into desired lengths, comprising a machine frame, mechanism acting on said frame and comprising relatively movable tongs for gripping and withdrawing the filaments, a table having a channel therein adjacent the said mechanism, an endless chain in the channel, a plurality of material-holding devices mounted on said endless chain and moved forward by the latter, and a conveying band arranged under the said mechanism, moved substantially at right angles to the movement of the said holding devices, and serving to receive the withdrawn material.

1,689,680. OIL DISTRIBUTOR. HERBERT OPPENHEIMER, New York, N. Y. Filed Apr. 19, 1927. Serial No. 184,848. 4 Claims. (Cl. 128—233.)



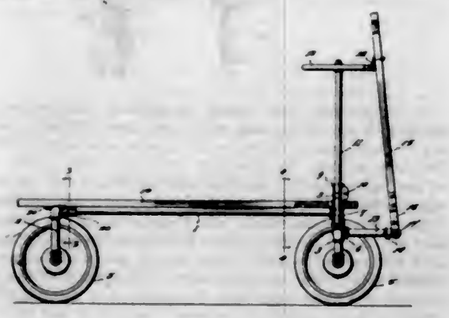
1. An oil distributor comprising a casing, an oil receptacle located within the casing, having two diameters, and having a removable cover to permit the introduction of oil into said receptacle, a heating unit located within the casing and surrounding a portion of the smaller diameter of the oil receptacle, the heating unit having its terminals carried out of the casing, together with means for controlling the flow of oil from the oil receptacle when desired.

1,689,681. CIRCULAR-KNITTING MACHINE. ALBERT M. PIGEON, Philadelphia, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Oct. 25, 1912. Serial No. 727,700. 53 Claims. (Cl. 66—49.)



1. In a knitting machine, the combination of a needle cylinder, a series of needles carried thereby, a yarn feeding device, means whereby said yarn feeding device may be rendered inoperative, and a yarn clamping and cutting device, said cutting device being located between the clamping device and the web, and means for positively guiding the yarn from contact with the cutter when the yarn feeding device is thrown into operation and for pulling the yarn from the clamping device, the yarn being removed first from the clamping device and then from the cutter.

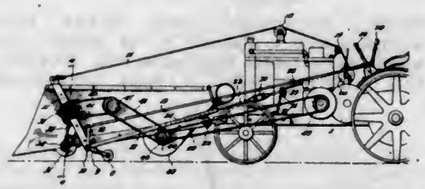
1,689,682. TOY WAGON. AUSTIN E. RAINEY, Grove City, Pa. Filed Apr. 28, 1927. Serial No. 187,362. 2 Claims. (Cl. 280—87.5.)



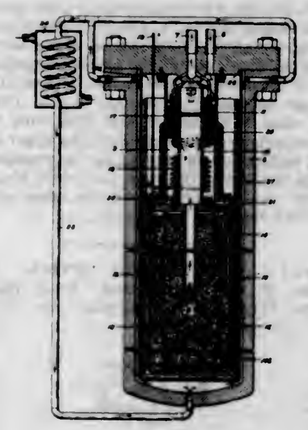
1. In a vehicle of the character specified, the combination of a reach, a cross bar, a fitting forming connecting means between the cross bar and reach, an axle, a member projecting upwardly from said axle and pivotally mounted in the fitting connecting the said cross bar and reach, and a steering post coupled to the member projecting upwardly from the axle.

1,689,683. SNOWPLOW. FRANK M. REDMER, Norfolk, Nebr., assignor of forty-nine one-hundredths to Charles W. Hass, Norfolk, Nebr. Filed Jan. 14, 1927. Serial No. 161,140. 3 Claims. (Cl. 37—43.)

1. A snow plow, comprising a hollow casing having a discharge outlet at its rear, and an inlet at its front, and having its bottom upwardly and rearwardly inclined from its front edge which is adapted to dig into and lift the snow, and said bottom having front and rear depressions, a rotary beater mounted within the front depression, a fan located within the rear depression, and rotary beaters within the upper portion of the casing and adapted to coact with the lower beater and fan to positively move the snow through the casing and discharge the same through the outlet.

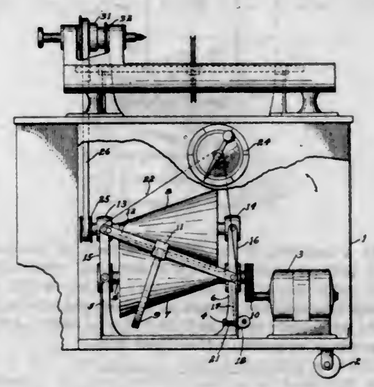


1,689,684. CATALYTIC APPARATUS FOR THE SYNTHESIS OF AMMONIA. FORREST C. REED, San Francisco, Calif. Filed Aug. 2, 1927. Serial No. 210,104. 9 Claims. (Cl. 23—289.)



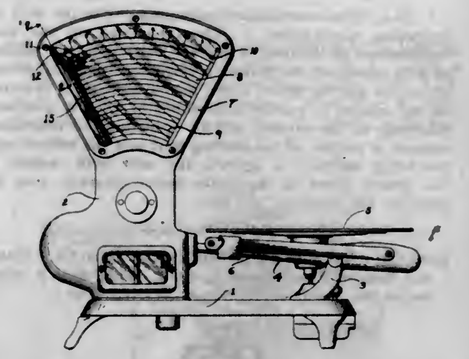
1. In an apparatus for the synthesis of ammonia, a pressure sustaining vessel, a plurality of concentric members connected as a unit to the cover of said vessel and forming a catalytic chamber and an annular heating chamber located above the catalytic chamber, a heat exchanger in the upper portion of the heating chamber, a heater in the lower portion thereof, means for admitting the incoming gases to the heating chamber, means for conducting them into the catalytic chamber at points midway of the wall of said chamber, an annular baffle within the catalytic chamber for directing the flow of gases in an axial direction, means for conducting the gases from the center of the catalytic chamber to the heat exchanger, a cylindrical shell attached to the cover of the vessel and spaced from the concentric members and the vessel, and a circulating line including a condenser connecting the upper portion and the under portion of the vessel.

1,689,685. BENCH MACHINE. ORWELL C. REEVES, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Apr. 28, 1921. Serial No. 465,341. 3 Claims. (Cl. 74—26.)



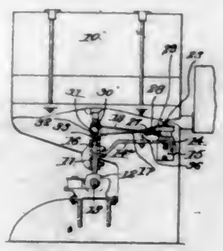
1. In a device of the class described, in combination, a cabinet, transmission mechanism mounted within said cabinet, said transmission mechanism comprising a stationary frame, a conical pulley journaled therein, pivoted frames connected to said stationary frame, an oppositely turned conical pulley supported by said pivoted frames, a belt passing between said pulleys, means for swinging said pivoted frames to bring said pulleys into operative engagement with said belt, and a bench machine mounted upon said cabinet and operatively connected to said transmission mechanism.

1,689,686. INDICATOR. ORWELL C. REEVES, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Sept. 28, 1922. Serial No. 591,028. 4 Claims. (Cl. 16—129.)



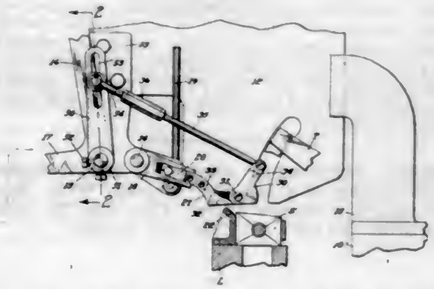
1. In a device of the class described, in combination, a relatively movable chart and indicator hand, said chart being divided into two portions by an arcuate opening, said indicator hand having a part with its surface lying in the plane of a surface of the outer of said portions and a part lying before the inner of said portions, the outer portion of said chart bearing weight indicia, and the inner portion thereof bearing value computations.

1,689,687. SPRING HINGE FOR PULP SCREENS. GEORGE REYNOLDS, Anderson, Ind. Filed Nov. 26, 1927. Serial No. 235,863. 4 Claims. (Cl. 92—32.)



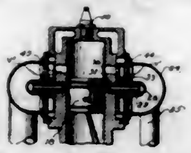
1. In a machine of the class described, in combination with a plunger provided with a slot, and relatively stationary guide means for the plunger, return spring means extended into said slot, means to anchor said return spring means, an under arm, and hold-down means for said spring means secured to the under arm.

1,689,688. THREAD CUTTER FOR LOOMS. WALTER Y. ROSS, Whitinsville, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 18, 1927. Serial No. 184,652. 4 Claims. (Cl. 139—264.)



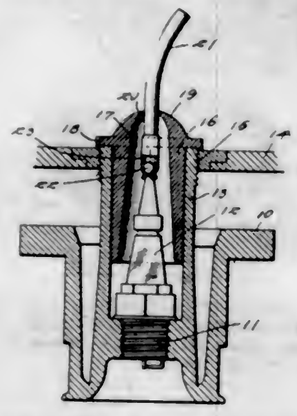
1. In a thread cutting and clamping device for weft replenishing mechanisms, a carrier mounted on the weft replenishing mechanism, a shuttle feeler pivotally mounted with respect to the carrier, a thread cutting unit mounted on the shuttle feeler, a rod holder adjustably mounted on the carrier to assume a plurality of angular positions relatively to the carrier, and an operating rod interposed between a portion of the cutting unit and the holder, said rod being effective to operate the unit with respect to the shuttle feeler as the latter moves pivotally with respect to the carrier.

1,689,689. INTERNAL-COMBUSTION ENGINE. CHESTER GORDON ROSS, Glendale, Calif. Filed May 9, 1927. Serial No. 189,925. 7 Claims. (Cl. 123—59.)



1. In an internal combustion engine, ports in the walls of the cylinders, communicating pockets in the outer walls of the cylinders, rotary disk valves in the pockets having their peripheries formed with intermeshing teeth to provide driving connections between the valves, means for driving one of the valves, an intake manifold covering all of the pockets, and means in the manifold and operable by the valves for further vaporizing and positively injecting a gaseous fuel into the cylinders through said ports.

1,689,690. ATTACHMENT FOR SPARK PLUGS. ARTHUR L. SANDIN, Bismarck, N. Dak., assignor of one-half to Charles J. Blue, Bismarck, N. Dak. Filed Feb. 24, 1927. Serial No. 170,582. 2 Claims. (Cl. 123—198.)



1. The combination with the cylinder head of an internal combustion engine having a socket in the lower wall of which a spark plug receiving opening is formed, of a plug for closing the upper end of the socket extending into the socket for a considerable distance and having at its upper end a flange seating upon the face of the cylinder head about the edges of the socket, said plug being chambered at its lower end for the reception of the upper end of the spark plug and having an opening for the passage of a lead wire for the spark plug, the upper face of the plug inclining downwardly and outwardly from the edges of the lead wire receiving opening.

1,689,691. CORD-SEALING DEVICE. FRIEDRICH SCHAEFER, St. Gall, Switzerland. Filed Apr. 7, 1927, Serial No. 181,663, and in Germany Nov. 20, 1926. 2 Claims. (Cl. 292—325.)



1. A sealing device for cord and the like, comprising a cup-shaped member and a cooperating member fitted within the rim of the cup-shaped member, the rim of the cup-shaped member being adapted to be turned down upon the cooperating member to hold it in place with the cord interposed between the bottom of the cup-shaped member and the cooperating member, a channel formed in the bottom of the cup-shaped member to receive the cord, and prongs cooperating with the channel section to engage the cord.

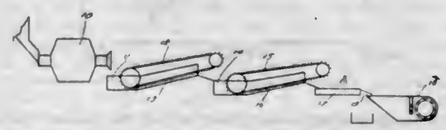
1,689,692. AURAL TELEPHONE SYSTEM. HELMUT SELL, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, and elsewhere, Germany. Filed Apr. 22, 1925, Serial No. 24,986, and in Germany Aug. 20, 1924. 6 Claims. (Cl. 179—107.)

3. In an aural telephone system of the character described a sound pick-up michrophone, at least one microphonic amplifier device electrically connected in cascade with said pick-up microphone, an ear phone, suitable conductors for connecting said ear phone with said microphones, all of said microphones being mounted on a common base, a battery and a plug and socket connection between



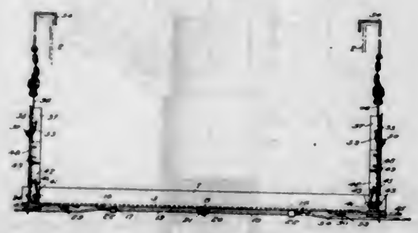
said base and said battery to make a rigid but separable unit of said two elements, said plug connecting the battery in parallel to said microphones and said ear phone, an adjustable resistance in circuit with said ear phone and a common cut-out switch between said battery and said microphones and ear phone.

1,689,693. FLOTATION PROCESS. COOPER SHAPLEY, Bishop, Calif. Filed Oct. 13, 1927. Serial No. 225,907. 5 Claims. (Cl. 209—207.)



1. The process of separating finely divided particles by flotation comprising contacting the particles with a soap solution which does not chemically react with the particles, and then bringing the particles to the surface of a body of water free from any reagent which would decompose the soap.

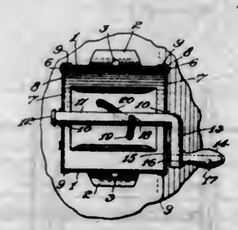
1,689,694. BALLAST SPREADER. BERNARD W. STRAW, Mount Airy, Md., assignor to Straw Ballast Distributer Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 14, 1926. Serial No. 122,463. 68 Claims. (Cl. 105—239.)



1. In combination, a car formed with a body for holding granular material, and means removably positioned beneath said body for receiving said material, said means being formed with a door adapted for gradual operation to release said material as needed for spreading it beneath said car.

1,689,695. CLOTHESLINE REEL. JULIUS STROMBACH, Maplewood, N. J., assignor to Colonial Stamping Company, Newark, N. J., a Corporation of New Jersey. Filed Jan. 10, 1925. Serial No. 1,553. 1 Claim. (Cl. 242—101.)

A clothes-line reel, comprising a cylindrical shell and a pair of plates secured thereto and closing the opposite ends thereof, said shell having a pair of perforations through its wall and a pair of supporting ears at the side of the shell diametrically opposite said perforations, a spindle mounted for rotation in said plates and provided with a transversely extending perforation normally in alinement with one of the perforations in the shell, said spindle being of greater length than the shell and having



its opposite ends extending beyond said end plates whereby the spindle is capable of axial movement in its bearings, a crank handle carried by the spindle at one end thereof, the end plate at that end being provided with a plurality of perforations, and a stud carried by said handle and adapted to engage one of said perforations when the spindle is moved axially thereby to prevent rotation of the spindle.

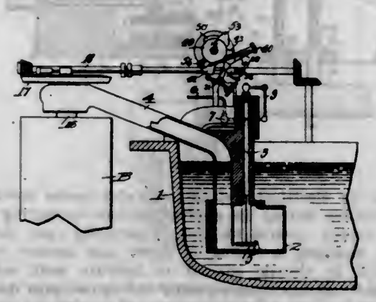
1,689,696. ESTER OF SALICYLIC ACID AND PYRUVIC ACID. SAMUEL LEWIS SUMMERS, Fort Washington, Pa. Filed June 30, 1925. Serial No. 40,683. 5 Claims. (Cl. 260—107.)

1. As a new therapeutic agent the chemical reaction product of salicylic acid and pyruvic acid substantially in the proportions of 1 part of the former to 1.23 parts of the latter.

1,689,697. PHOSPHATE AND PROCESS. ERNEST W. THORNTON, East Orange, N. J., assignor to R. B. Davis Company, Hoboken, N. J., a Corporation of New Jersey. Filed Feb. 9, 1926. Serial No. 87,178. 5 Claims. (Cl. 23—243.)

1. A salt of phosphoric acid in the form of small spherical particles.

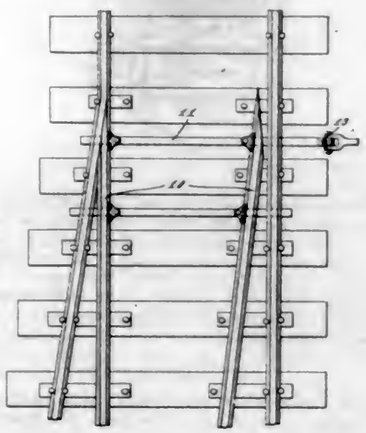
1,689,698. TIMING DEVICE FOR PNEUMATIC METAL PUMPS. ISIDOR TORNBERG, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 8, 1924, Serial No. 754,632. Renewed Mar. 30, 1928. 19 Claims. (Cl. 22—69.)



3. In a device for supplying molten metal to a movable casting box, the combination with the casting box, a pneumatic pump, and means for supplying air under pressure

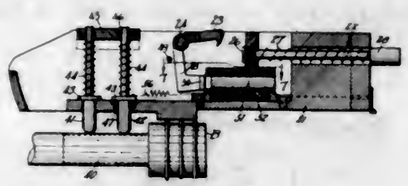
to the pump for operating it, of means for automatically stopping the flow of air to the pump and the flow of metal to the casting box when the casting box is not in casting position.

1,689,699. SWITCH BAR. JOHN D. TURNER, Birmingham, Ala. Filed Oct. 26, 1927. Serial No. 228,895. 2 Claims. (Cl. 246—449.)



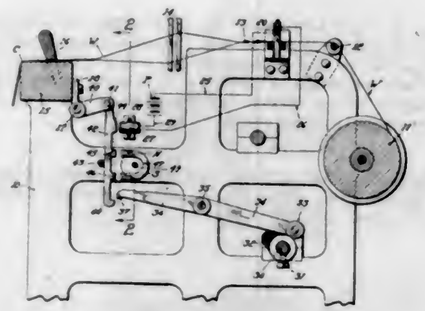
1. In combination with a railway switch, a tie bar adapted to be connected to the switch points, a curved inwardly extending hook-shaped extremity spaced from and parallel with one end of the bar and means extending transversely of the bar and hook-shaped extremity to close the end of the hook.

1,689,700. ELECTRICAL FEELER IN LOOM TRANSFERRER ARM. RICHARD GREENLEAF TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1926. Serial No. 150,696. 6 Claims. (Cl. 139—271.)



1. In an electrical weft detector for looms operating with bobbins having an electric current conducting portion normally covered by weft, a normally open electric circuit including a source of power and member to be energized by electric current to indicate weft exhaustion, said electric circuit normally having two gaps therein, a transferrer arm having a movement toward the surface to be detected on each detecting beat of the loom, means carried by the transferrer arm to close one of the gaps in the circuit on each detecting beat of the loom, and additional means carried by the transferrer arm to have contact with the electric current conducting portion of the bobbin on indicating beats of the loom, whereby the other gap of said circuit will be closed at exhaustion of weft to energize the member.

1,689,701. ELECTRICAL WARP STOP MOTION. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1928. Serial No. 244,976. 12 Claims. (Cl. 139—353.)



1. In an electrical warp stop motion for looms having a stopping member to be moved to stop the loom and an electro-magnetic device to be energized whenever a fault occurs in the warp, an armature member pivotally connected to the stopping member to be moved by the electro-magnet into stopping position, a permanent magnet to hold the armature member in stopping position, and means to move the stopping member when the armature member is held in stopping position by the permanent magnet.

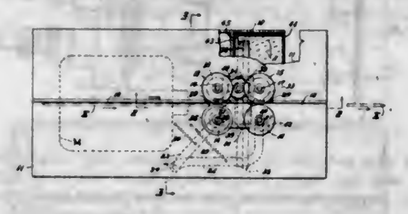
1,689,702. FISHING TOOL. RICHARD N. VICKERS, Smackover, Ark. Filed Dec. 29, 1927. Serial No. 243,392. 3 Claims. (Cl. 294—102.)



1. A device of the class described comprising a cylindrical body having a seat in its lower end, a collar threaded into the body and having spaced skirts upon its lower

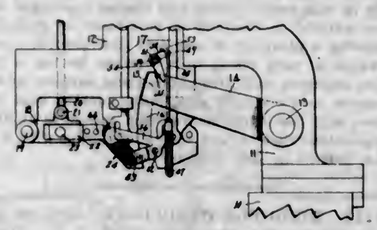
end, a pair of yieldably connected jaws mounted in the body for cooperation with the seat, said jaws each having a web upon its upper end and capable of being interlocked with the skirts when the body is rotated in one direction and to be released when the body is rotated in another direction.

1,689,703. LETTER OPENER. MAXWELL VIDAVER, New York, N. Y. Filed Aug. 21, 1926. Serial No. 130,599. 17 Claims. (Cl. 120—35.)



1. In a machine of the character described, in combination, a feed table, a grinding wheel with its edge projecting into an aperture in the feed table, mechanism for feeding an envelope into engagement with said projecting edge of the grinding wheel, a covering and sealing mechanism for said aperture, and automatic mechanism including a member positioned in the path of a fed envelope and controlled thereby to adjust said sealing mechanism to permit contact of the envelope with the grinding wheel.

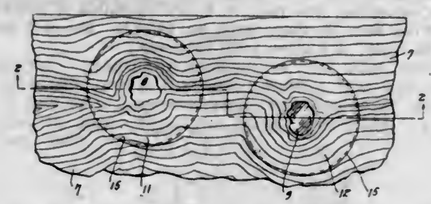
1,689,704. THREAD CUTTER FOR WEFT-REPLENISHING LOOMS. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1926. Serial No. 157,091. 4 Claims. (Cl. 139—267.)



1. In a filling thread cutter for looms, a transferrer arm, a lay, a shuttle feeler to be moved to shuttle feeling position prior to the movement of the transferrer arm, a thread cutting mechanism mounted on the shuttle feeler, means including a connection with the transferrer arm to open the cutter as the shuttle feeler moves to shuttle feeling position and the transferrer arm is raised, and means operated by the lay to close the cutter positively while the shuttle feeler is in feeling position and the transferrer arm has started a transferring movement to break said connection.

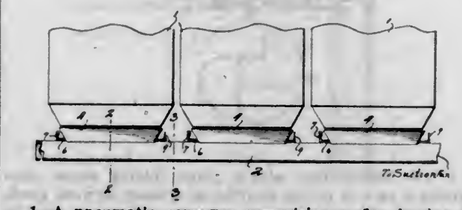
1,689,705. PROCESS FOR MANUFACTURING PLYWOODS. FLETCHER L. WALKER Westwood, Calif. Filed Aug. 11, 1926. Serial No. 128,662. 1 Claim. (Cl. 144—309.)

The steps in the manufacture of ply wood which consists in the removal of a defective portion from a ply, tapering the walls of the opening thus provided, inserting a piece of ply in the opening that conforms therewith, and



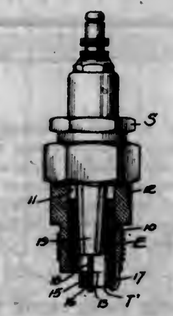
attaching this ply upon other plies in a manner to cause the larger surface of the inserted piece to contact with the adjacent ply.

1,689,706. COTTONSEED CONVEYER. JOHN H. WHITLEY, Stantonsburg, N. C. Filed June 9, 1927. Serial No. 197,669. 3 Claims. (Cl. 19—39.)



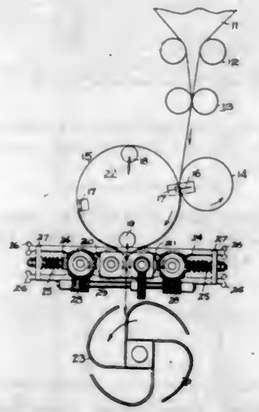
1. A pneumatic conveyer comprising a flue having an opening in its upper wall, said opening being defined by upstanding walls providing a hopper, a shaft supported by opposed walls of the hopper and extending through the hopper, a valve for the opening in the flue fixed to the shaft and opening into the flue, a rock arm carried by the shaft and providing means for constantly urging the valve into open position, a second arm carried by the shaft, a disc supported for rotation, said second arm having contact with the periphery of the disc, the periphery of said disc having a depression into which said arm extends upon rotation of the disc to permit the valve to move into open position, said valves being positively maintained shut by the engagement of the arm with the perimeter of the disk, except when said arm is released by the depression of the disk.

1,689,707. ATTACHMENT FOR SPARK PLUGS. DAVID L. WINTERS, Los Angeles, Calif. Filed Apr. 12, 1926. Serial No. 101,491. 8 Claims. Cl. 123—169.)



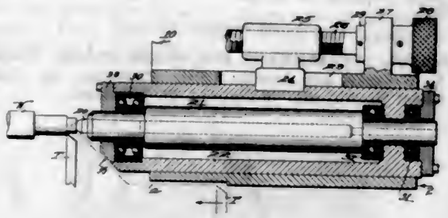
5. An attachment for spark plugs comprising a tubular element adapted to be inserted into the shell of the plug for electrical connection with the shell, and a tongue on the member shaped to move laterally and in a plane transversely of the length of the tubular element in response to changes in temperature.

1,689,708. DEVICE FOR PREVENTING SMUTTING OF PRINTED PRODUCTS. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Mar. 20, 1922, Serial No. 545,224. Renewed Mar. 30, 1928. 2 Claims. (Cl. 101—423.)



1. The combination with a paper folding device comprising a pair of rollers for folding a sheet between them, of a pair of spring pressed cleaning rollers mounted in guide ways on opposite sides of said folding rollers, each separately in contact with one of said folding rollers, said cleaning rollers being covered with absorbent material, and driving means between one of said folding rollers and the cleaning rollers for rotating said rollers at different rates of speed.

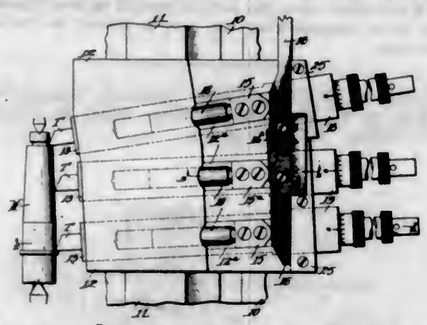
1,689,709. TAILSTOCK FOR LATHES. RICHARD A. ASHTON, Seneca Falls, N. Y., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y., a Corporation of Massachusetts. Filed Mar. 18, 1926. Serial No. 95,776. 4 Claims. (Cl. 82—31.)



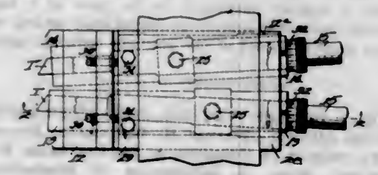
1. In a tail stock, a frame, a sleeve slidable axially therein, a spindle freely rotatable in said sleeve, and a center supported by said spindle, removable anti-friction bearing raceways mounted in said sleeve for said spindle at both ends thereof and also an additional removable thrust bearing raceway mounted in said sleeve for resisting axial pressure on said spindle.

1,689,710. MULTIPLE TOOL SLIDE FOR MACHINE TOOLS. RICHARD A. ASHTON, Seneca Falls, N. Y., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y., a Corporation of Massachusetts. Filed Mar. 18, 1926. Serial No. 95,779. 8 Claims. (Cl. 82—14.)

1. In a machine tool, a frame, a tool carriage slidable longitudinally of the work on said frame, a plurality of directly actuated tool slides mounted for transverse movement in said tool carriage toward and from the work, a templet bar held from longitudinal movement and having cam portions in different planes, and templet blocks on said tool slides, each block being in one of said planes and cooperating with a cam portion in the same plane.

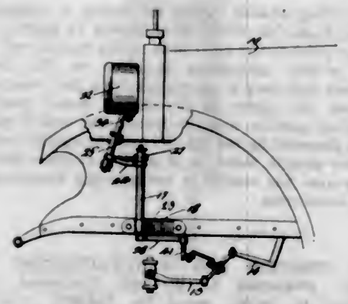


1,689,711. MULTIPLE TOOL SLIDE FOR MACHINE TOOLS. RICHARD A. ASHTON, Seneca Falls, N. Y., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y., a Corporation of Massachusetts. Filed Mar. 18, 1926. Serial No. 95,780. 3 Claims. (Cl. 82—14.)



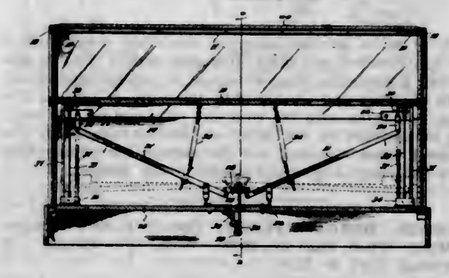
1. In a machine tool, a carriage movable axially of the work, a plurality of tool slides movable transversely in said carriage toward and from the work, a cam plate fixed axially in said machine tool and having a straight bearing surface parallel to the path of movement of said carriage and having a plurality of separate cam grooves extending lengthwise of said plate, said carriage having a bearing member engaging said straight bearing surface, and yielding means to force said cam plate against said bearing member, said tool slides having cam followers at different axial positions thereon and each cooperating with a selected cam groove in said cam plate.

1,689,712. DIRIGIBLE HEADLIGHT. EDMUND BARBER, Troy, and NATHAN INGRAHAM, Athol, N. Y. Filed Jan. 27, 1927. Serial No. 164,068. 3 Claims. (Cl. 240—62.)



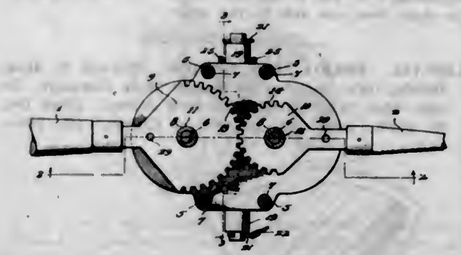
3. A vehicle headlight comprising a pair of rotatable shafts one of said shafts being raised in vertical position, the other of said shafts being tilted slightly from the vertical, a link connecting the shafts for causing simultaneous oscillation of the same, and means for connecting said vertical shaft with the vehicle steering apparatus for actuation simultaneously therewith, said tilted shaft having the upper end angled to normally extend in a horizontal plane to support a vehicle headlight in position to cast a horizontal beam of light when a vehicle is travelling in a straight path and to swing the light to direct the beam downwardly and laterally when the shafts are oscillated during the turning movement of the vehicle.

1,689,713. DISPLAY CASE. WISTER P. BOTT, Homer, La., assignor of three-fourths to Fred C. McClanahan, Homer, La. Filed Jan. 12, 1927. Serial No. 160,686. 7 Claims. (Cl. 312—139.)



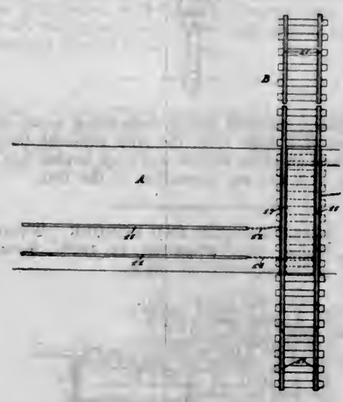
1. In a display case having a vertically movable front, operating means for the front including levers arranged in a plane parallel with the said front and pivoted adjacent their inner ends and inclining upwardly and outwardly, means connecting the outer ends of said levers with opposite end portions of the front, and an operating lever having connection with the inner ends of the said levers.

1,689,714. OAR. ARTHUR H. BURNS, Penn Yan, N. Y. Filed Nov. 29, 1926. Serial No. 151,490. 1 Claim. (Cl. 9—25.)



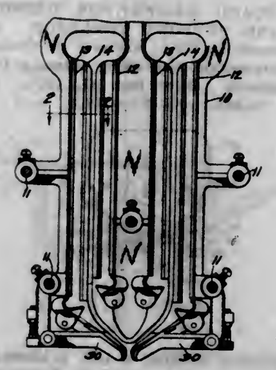
In an oar, a frame comprising upper and lower plates, fasteners extending through the side edge portions of said plates, other fastenings extending through the plates on the medial longitudinal line thereof, sleeves upon said fasteners between the plates to retain the plates in spaced relation to each other, a blade carrier and a handle carrier between said plates, said carriers having semi-circular heads rotatably received about the sleeves on the last-mentioned fasteners and having arcuate inner edges formed with intermeshing gear teeth, bearing brackets secured against the under face of the lower plate adjacent opposite said edges thereof, a hinge leaf having sleeves spaced from each other along its upper edge to be disposed at the outer sides of said brackets, means for securing said leaf rigidly to the gunnel of a boat, a pin passed through the sleeves and bearing brackets to pivotally connect the frame and hinge leaf, and means engaged with the ends of said pin and the upper frame plate to prevent loss of the pin.

1,689,715. ELECTRIC SAFETY DEVICE FOR AUTOMOBILES. LEE O. CALLISTER, Sheridan, Wyo., assignor of one-half to Arthur W. Doyle, Sheridan, Wyo. Filed Apr. 19, 1926. Serial No. 103,184. 18 Claims. (Cl. 246—196.)



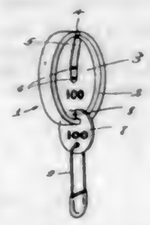
1. In a device of the kind described, highway conductors in electrical connection with railway track rails, contact means on a highway motor vehicle adapted to contact with said conductors, motor control means on the vehicle, and actuating means for said control means in circuit with said contact members, whereby said contact members being in contact with said conductors and a railway vehicle being on said rails, a circuit is completed through said actuating means and said control means is operated to cut out the motor of the roadway vehicle.

1,689,716. WEFT-REPLENISHING MAGAZINE FOR MULTISHUTTLE LOOMS. AUGUSTIN J. CHEVRETTE and VICTOR H. JENNINGS, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 19, 1926. Serial No. 123,277. 4 Claims. (Cl. 139—245.)



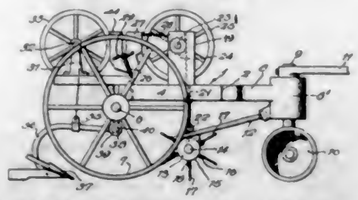
1. In a loom, a magazine frame having guideways for the bobbin tips, said guideways having portions of different widths adapted to receive and center bobbins of different lengths and having tip portions of different diameters.

1,689,717. LAUNDRY-CHECKING DEVICE. ALBERT B. CLISSON, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 13, 1927. Serial No. 160,987. 7 Claims. (Cl. 40—19.5.)



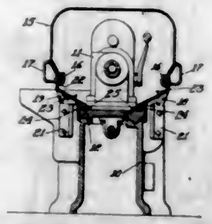
1. A laundry checking device comprising a tag holder in the form of a split ring, the ring adjacent the split being key-form in cross section and tags having key slots conforming with the key formation of the ring.

1,689,718. STALK CUTTER AND BEDDER. WALTER B. COLLINS, Bishop, Tex. Filed Oct. 16, 1926. Serial No. 142,018. 3 Claims. (Cl. 55—61.)



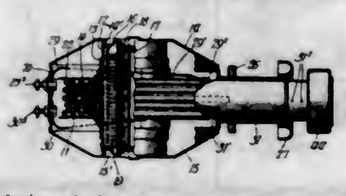
1. In a stalk cutter including a wheeled supporting frame, a yoke pivoted to the frame to swing vertically and laterally, and a rotary cutter carried by and journaled upon the arms of the yoke, a combined rack guide and gear housing rising from the frame at each side thereof and above each yoke arm, a rack bar slidable vertically in each housing, a pivotal suspending connection between each rack bar and the yoke arm at the same side of the frame, a transverse shaft journaled upon each housing, a pinion on each shaft and meshing with the rack bar guided in the housing upon which the shaft is journaled, a hand wheel on each shaft, an automatically operated brake member normally engaging each hand wheel, and means for manually retracting said brake member.

1,689,719. GUARD CASING FOR GRINDING MACHINES AND SUPPORT THEREFOR. ALDEN M. DRAKE, Greenfield, Mass., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed Dec. 17, 1925. Serial No. 75,901. 3 Claims. (Cl. 51—272.)



1. In a grinding machine, a bed, a carriage slidable thereon, and a pair of guard rails fixed to said bed and forming protecting flanges at each side of said bed, said guard rails being extended inwardly beyond the edges of said carriage and having depending inner edge portions positioned between upwardly projecting flanges on said carriage, and a guard casing enclosing said carriage and movable longitudinally on said guard rails toward and from operative position thereon.

1,689,720. ELECTRIC CIGAR LIGHTER. WILLIAM C. GRUNOW, Chicago, and OWEN E. GRIGSBY, Park Ridge, Ill., assignors to Grigsby-Grunow-Hinds Co., Chicago, Ill., a Corporation of Illinois. Filed June 21, 1924. Serial No. 721,530. 4 Claims. (Cl. 219—32.)



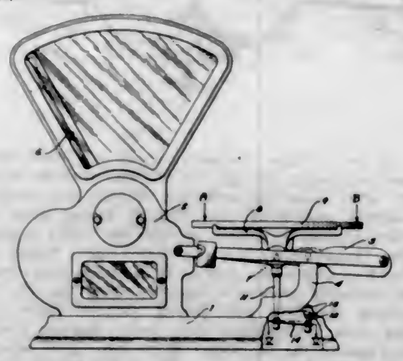
1. A device of the character described comprising a spring retracted reel spool with cord wound thereon and having a conductor ring, a contact in wiping engagement with the ring and circuit with the cord, a lighting element connected with the cord and retracted by the winding of the cord on the spool, and means engaged by the element when retracted for disengaging the wiping contact and ring to open the circuit of the element.

1,689,721. BATHING FLOAT. CARL C. HARRIS, Orange, Mass. Filed June 3, 1927. Serial No. 196,304. 3 Claims. (Cl. 9—11.)



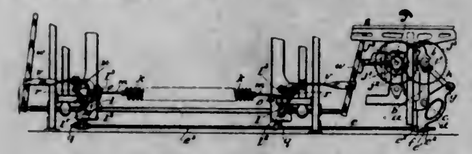
1. As an article of manufacture, a float comprising sides and transverse rods connecting the sides, with floats held on the rods between the two sides, and a covering of canvas extending over and around the float and extending across the float from one side to the other.

1,689,722. STABILIZING DEVICE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 29, 1924. Serial No. 758,582. 6 Claims. (Cl. 265—48.)



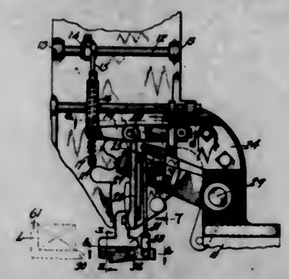
1. In a device of the class described, in combination, a frame, a lever fulcrumed upon said frame, said lever having a load pivot, a commodity receiver supported upon said load pivot, an arm connected to the commodity receiver and having a grooved portion, a grooved portion carried by the frame, and a link connecting said grooved portions having knife edges contacting the faces of said grooves at substantially right angles to the lines of extension of said grooves, the axes of the pivotal connections between said link, the arm and frame and the load and fulcrum pivots of said lever being in parallelogrammatic relation.

1,689,723. PICKING MECHANISM FOR LOOMS FOR WEAVING. EDWARD HOLLINGWORTH, Dobcross, England, assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 24, 1926, Serial No. 118,313, and in Great Britain June 27, 1925. 3 Claims. (Cl. 139—145.)



1. In a spring picking mechanism for looms having picker sticks at each end thereof, charging and firing mechanisms for each stick including pivotally mounted driving levers for each mechanism, a driving rod connecting the levers together, a pivoted actuating lever, a second rod in substantial alignment with the first named rod and pivotally connected to the actuating lever at one end and at the other end operatively connected to the first named rod, and means for giving said acuating lever a reciprocating motion, the pivot for the levers being located on the same side of said rods for all positions of the actuating lever.

1,689,724. THREAD CUTTER FOR WEFT-REPLENISHING LOOMS. HARRY J. HOOK, Chester, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1926. Serial No. 154,808. 9 Claims. (Cl. 139—267.)



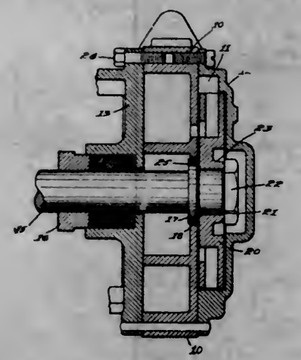
1. In a weft replenshing loom, transferrer mechanism, a thread cutter, actuating means tending normally to close the cutter, locking means holding the cutter open against the action of the actuating means when said cutter is in cutting position, and inter-connections between the transferrer mechanism and the locking means to release the actuating means during the first part of the operation of the transferrer mechanism on a transferring beat of the loom, whereby the actuating means will operate the cutter prior to the completion of the transferring movement of the transferrer mechanism.

1,689,725. INDICATING DEVICE. SAMUEL N. HURT, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Sept. 28, 1922. Serial No. 591,025. 5 Claims. (Cl. 116—114.)

1. In a device of the class described, in combination, a relatively movable chart and index, said index consisting of a flexible line and a line holder comprising a cylinder having one end open and its other end closed, a bracket for supporting said cylinder, a second cylinder having one end open and telescoped within the first said cylinder, the other end of the second cylinder being closed, an expansive spring interposed between the closed ends of said cylinders, said closed ends being perforated, said line being connected to said second cylinder and passing through the perforations in said closed ends.

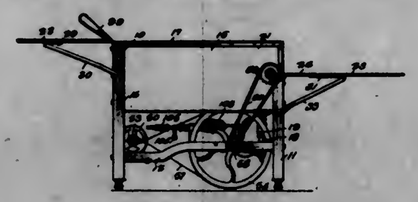


1,689,726. ADJUSTING AND SECURING MEANS FOR AIR-PUMP ROTORS. IRVING C. JENNINGS, South Norwalk, Conn. Filed May 3, 1926. Serial No. 106,297. 3 Claims. (Cl. 103—111.)



1. In a pump, in combination, a casing having outer and inner walls and an axial opening through said inner wall, a shaft having a shoulder rotatable in said opening but positioned back of the plane of the inner face of said casing, an impeller having a hub slidable axially on said shaft, and a rotatable body portion extending between the walls of said casing, a spacing member of selected thickness interposed between said shaft shoulder and the adjacent end of said hub, and means to press said hub against said spacing member and shoulder, thereby securing said rotatable portion of the impeller in an accurate spaced position with respect to said walls.

1,689,727. DISHWASHING MACHINE. CHARLES A. JOHNSON, Sacramento, Calif. Filed May 20, 1925. Serial No. 31,648. 5 Claims. (Cl. 15—74.)

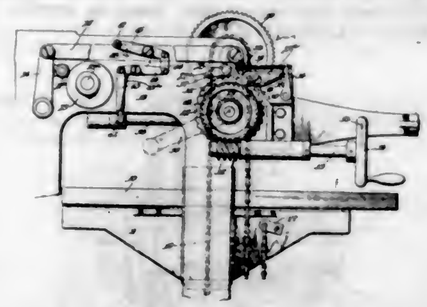


1. A dish washing machine comprising a frame, a liquid container mounted upon the frame, rotatable parallel brushes disposed in the container and in contact with one another, and means cooperating with the brushes for carrying the dishes to be washed on edge through the tub and between the brushes.

1,689,728. METHOD OF TREATING AQUEOUS EMULSIONS OF TAR. BIRGER JOHNSON, Stockholm, Sweden. Filed Mar. 6, 1925, Serial No. 13,637, and in Sweden Mar. 12, 1924. 2 Claims. (Cl. 196—4.)

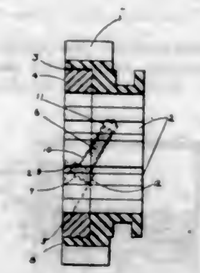
1. Method of separating aqueous emulsions of tar into their constituents, consisting in mixing the emulsion with a carboxy acid which is substantially insoluble in water but soluble in the tar constituent of the emulsion and leaving the mixture to stand at an elevated temperature until the water is separated from the tar.

1,689,729. PILE-ELEVATING MECHANISM. WILLIAM M. KELLY, Jersey City, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 6, 1921. Serial No. 490,289. 19 Claims. (Cl. 271—62.)



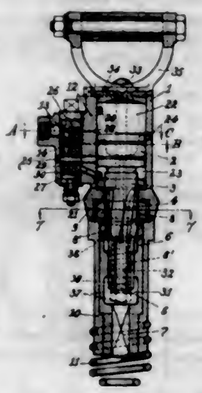
1. Mechanism of the character described including in combination, a vertically movable pile supporting table, a rotatably mounted member, transmission means between said member and table to transmit motion from one to the other including a one-way clutch and gearing including a driving gear, said gearing constructed and arranged when inoperative to hold the table against lowering and to permit such lowering at a substantially uniform rate when the driving gear is set spinning in the lowering direction, and other means functionally independent of said clutch to actuate the table.

1,689,730. ADJUSTABLE TRANSMISSION GEAR. CHARLES Y. KNIGHT, Pasadena, Calif., assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 21, 1925. Serial No. 51,545. 10 Claims. (Cl. 64—98.)



1. In a composite gear adapted to slide upon a driving shaft, the combination of a pair of relatively rotatable members, each of said members having portions adapted to operatively engage said shaft, means for rotating the members relative to each other and means for locking the members together as a slidable unit upon a shaft in a fixed angular relation.

1,689,731. PERCUSSIVE PNEUMATIC TOOL. JOSEF KÖHLEN, Herne, Germany. Filed Jan. 20, 1923, Serial No. 613,888, and in Germany June 6, 1922. 7 Claims. (Cl. 121—6.)

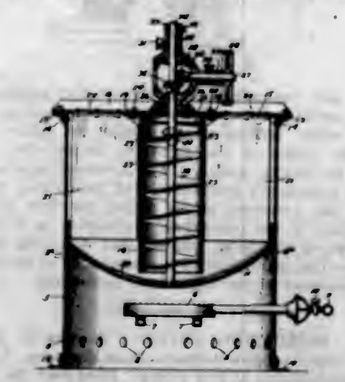


1. A percussive pneumatic tool comprising a cylinder and a piston arranged to reciprocate therein, said cylinder having two exhaust ports arranged to be uncovered by the piston alternately but so located that in certain positions of the piston both exhaust ports will be covered thereby, a cock which controls the one exhaust port of the cylinder, and channels, likewise controlled by said cock, for leading the medium under pressure alternately to opposite ends of said cylinder, said cock being arranged to conduct the medium under pressure to one end of the cylinder at the same time that said cock closes the exhaust port leading from that cylinder end.

1,689,732. VEGETABLE GLUE AND METHOD OF MAKING SAME. IRVING F. LAUCKS and GLENN DAVIDSON, Seattle, Wash., assignors to I. F. Laucks, Inc., Seattle, Wash., a Corporation of Washington. Filed Oct. 29, 1923. Serial No. 671,381. 10 Claims. (Cl. 87—17.)

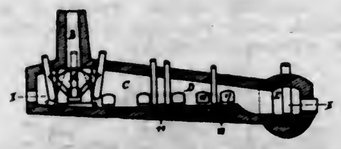
1. A vegetable glue composition, comprising the reaction products of a vegetable seed flour of considerable protein content and an alkali metal hydroxide as such in an aqueous medium.

1,689,733. STIRRING MECHANISM. JOSEPH TRIMBY LAWRENCE, Jersey City, N. J., assignor to Mitchell-Rand Mfg. Co., a Corporation of New York. Filed May 12, 1924. Serial No. 712,508. 2 Claims. (Cl. 259—97.)



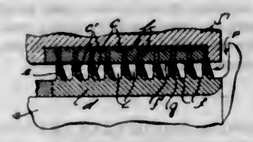
1. A device of the character described comprising a kettle, a supporting beam extending across said kettle and detachably secured thereto, a cylinder mounted upon said supporting beam and extending downwardly therefrom into said kettle nearly but not quite to the bottom thereof, said cylinder being normally stationary and being provided with spouts extending outwardly and downwardly from it in order to direct the flow of loose material downwardly from the top of said cylinder into said kettle, a guard plate mounted within upper portion of said cylinder, a revoluble shaft extending through said guard plate and axially downward through said cylinder, a conveyor thread carried by said shaft and located within said cylinder in order to crowd loose material against said guard plate and thus to cause the discharge of said loose material from said spouts, and means for turning said revoluble shaft.

1,689,734. PROCESS OF DIRECT REDUCTION OF IRON ORES. TOUSSAINT LEVOZ, Heer, Belgium, assignor to N. V. Handelmaatschappij Ferlron, Rotterdam, Netherlands. Filed Feb. 16, 1924, Serial No. 693,359, and in Belgium Feb. 1, 1923. 2 Claims. (Cl. 75—14.)



1. In the direct manufacture of iron from ore, the steps of forming a charge comprising iron ore, reducing carbon, oxides of alloy metals such as Si and Mn, and a low melting point aluminiferous flux; subjecting the charge to a comparatively low temperature to produce a low carbon ferro alloy, and a covering slag; raising the temperature to reduce the carbon content of the alloy by interaction of the carbon with the oxidized aluminum in said slag; and then reducing the components other than iron of the alloy by means of an oxidizing agent.

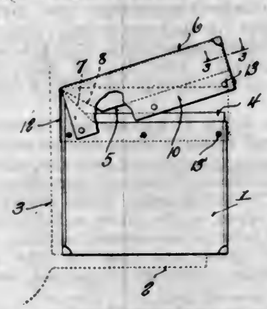
1,689,735. LABYRINTH GLAND CONSTRUCTION. FRANZ LÖSEL, Brunn, Czechoslovakia. Filed Aug. 15, 1924, Serial No. 732,306, and in Austria Oct. 5, 1923. 1 Claim. (Cl. 286—10.)



A gland construction for rotating shafts comprising a set of gland rings axially spaced to form a succession of chambers and a second set of gland rings projecting into and dividing said chambers unequally, each ring of the second set normally lying more closely adjacent to one of a pair of gland rings of the first set defining a specific chamber than the other of said rings to form therewith an elongated narrowed axial throttling clearance on one side with a comparatively larger non-throttling clearance on the other side, the set of said gland rings which is disposed on the higher pressure side of such throttling clearances being elastic to be movable with steam pressure variations and thereby vary the elongated axial throttling clearances a substantial amount.

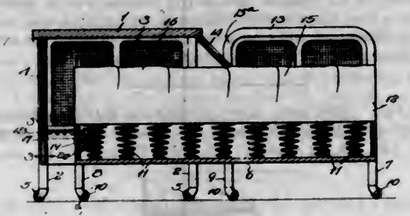
1,689,736. AUTOMOBILE TRUNK. HERBERT F. MASSOPUST, Milwaukee, Wis. Filed Apr. 21, 1924. Serial No. 707,992. 1 Claim. (Cl. 190—19.)

An automobile trunk comprising a body portion, a top hinged thereto and having downwardly extending flanges forming a joint with said body portion, said joint extending upwardly along a slanting line towards the rear of said top, a cover of flexible sheet material secured to the upper face of said top and having flaps extending downwardly from the top cover portion and overlapping and projecting below the joint between the flanges and the body portion of said trunk, said flaps meeting and being permanently joined along vertical lines at the front corners of the trunk by securing means, said flaps having rear vertical



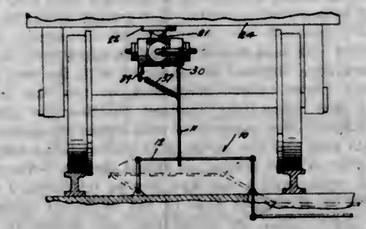
edges aligning with the vertical edges of the rear portion and having a rear portion secured to the rear of said trunk, and detachable fasteners carried by the front and sides of said body portion and said flaps for securing the lower portion of said flaps tightly against said body portion, the vertical rear edges of said side flaps being free.

1,689,737. CONVERTIBLE BED. WILLIAM A. MATHESON, Chicago, Ill., assignor to Roll-A-Way Bed Corporation, Chicago, Ill., a Corporation of Illinois. Filed June 29, 1923. Serial No. 648,499. 3 Claims. (Cl. 5—2.)



1. In combination, an article of furniture, and a bed slidable thereinto and partially concealed thereby when not in fully open position, said bed having oppositely disposed head and foot boards extending only substantially midway of the ends of the bed from one side thereof, said head and foot boards being adapted to occupy positions exteriorly of the article of furniture and having vertical end frame members extending adjacent thereto and in the same vertical plane with the end portions thereof when said bed is in its innermost position.

1,689,738. AUTOMATIC TRAIN CONTROL. DAVID CORNELIUS MEARA, Oakland, Calif., assignor of one-tenth to Albert J. Mouchou, Oakland, Calif. Filed Jan. 11, 1926. Serial No. 80,643. 6 Claims. (Cl. 246—190.)



1. In a tripping device for an automatic train control, a revolvable shaft having a valve thereon, an arm pivoted relative to the shaft for swinging motion in axial direction,

a housing surrounding the shaft and slotted to allow the arm to swing transversely for actuating the shaft, and means for yieldingly locking the arm to a side wall of the slot.

1,689,739. DIPHENYLMETHANE AZO DYESTUFFS AND PROCESS OF MAKING SAME. CARL METTLER, Basel, Switzerland, assignor to the Firm J. R. Geigy A. G., Basel, Switzerland. Filed Jan. 14, 1927, Serial No. 161,240, and in Germany Jan. 28, 1926. 4 Claims. (Cl. 260—87.)

4. As a new article of manufacture, the hereinbefore described mordant dyeing dyestuffs obtained by diazotizing aniline-methylene-ortho-cresotinic acid and coupling with 1(2-chloro-5-sulphophenyl)-3-methyl-5-pyrazolone, constituting in form of its sodium salt a yellow powder difficultly soluble in cold water, easily soluble in hot water with a greenish-yellow color, in concentrated sulphuric acid with a yellow color, dyeing wool from an acetic acid bath greenish-yellow tints, which after chromation change more to yellow.

1,689,740. DITOLYLMETHANE AZO-DYESTUFFS AND PROCESS OF MAKING SAME. CARL METTLER, Basel, Switzerland, assignor to the Firm J. R. Geigy A. G., Basel, Switzerland. Original application filed Jan. 14, 1927, Serial No. 161,240, and in Germany Jan. 28, 1926. Divided and this application filed Nov. 25, 1927. Serial No. 235,759. 4 Claims. (Cl. 260—94.)

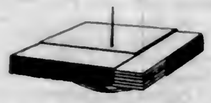
4. As a new article of manufacture the hereinbefore described mordant dyeing dyestuff obtained by diazotizing ortho-toluidine-methylene-ortho-cresotinic acid and coupling with 1-naphthol-3 : 6-disulphonic acid and constituting in form of its sodium salt a red powder easily soluble in water and concentrated sulphuric acid with a red color and yielding red tints on wool from an acetic acid bath and when printed on cotton with a chromium salt.

1,689,741. DISPLAY AND STORAGE RACK. ALBERT MISRACHI, Mexico, Mexico. Filed Sept. 3, 1926. Serial No. 133,369. 1 Claim. (Cl. 211—134.)



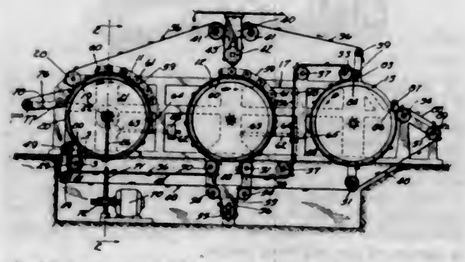
An open front storage and display rack for magazines or the like including a lower shelf having a rigid stop strip along its forward edge portion and a rigid upwardly and rearwardly inclined rest strip spaced rearwardly from and parallel with said stop strip, and an upper shelf having its forward edge disposed to cooperate with the rest strip to support copies of the magazines, or the like, in an upwardly and rearwardly inclined position for display when the lower edge portions of said copies are seated between said stop and rest strips, said shelves being adapted to have piles of said magazines stored thereon behind the displayed copies, and a top wall having its forward edge engageable by the upper ends of the displayed copies to aid the upper shelf in supporting said copies in flat condition, said forward edges of the upper shelf and top wall being beveled and in the same inclined plane as the front surface of the rest strip.

1,689,742. PAPER NAPKIN OR THE LIKE. ELMER C. MORRIS, Chicago, Ill. Filed Aug. 21, 1925. Serial No. 51,571. 7 Claims. (Cl. 206—57.)



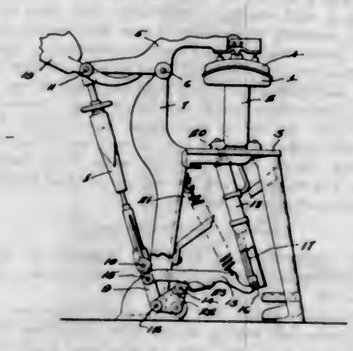
1. A paper napkin or the like folded into a rectangular form with the upper final fold having one exposed corner lying within the perimeter of the other folds and two edges of said upper final fold spaced away from the perimeter of the other folds by a substantial distance, the folds so disposed providing a thick body part to the folded napkin and also providing a plurality of separated corner tabs to facilitate handling of the napkin.

1,689,743. LAUNDRY DRIER. THOMAS J. MULLEN, Owensmouth, Calif. Filed May 2, 1927. Serial No. 188,296. 6 Claims. (Cl. 68—9.)



1. An apparatus of the class described, the combination of : a primary drum ; a secondary drum ; a primary web adapted to engage the surface of said primary drum ; a tertiary drum ; a secondary web engaging the surface of said tertiary drum, said secondary web engaging said primary web after it leaves said primary drum and disengages said primary web before said secondary web engages said tertiary drum, said primary and secondary webs both passing around said secondary drum ; and drive mechanism for operating one of said drums.

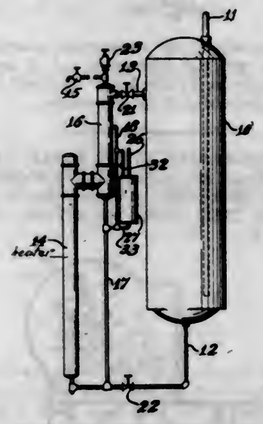
1,689,744. PRESSING-MACHINE-OPERATING MECHANISM. JOHN NEUROTH, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed June 30, 1926. Serial No. 119,730. 9 Claims. (Cl. 68—9.)



1. A combination with a pressing machine comprising a frame, cooperating pressing elements supported by the frame and one being movable toward and from the other,

means for actuating the movable pressing element including a lever carrying the movable pressing element, a toggle including links pivoted together, one being pivoted at its outer end to said lever and the other being pivoted at its outer end to the frame, a reciprocally movable actuator connected to the frame and arranged in substantial parallelism to the upper link of the toggle, an intermediate lever fulcrumed between its ends on the frame, one arm thereof being connected to the toggle and the other to the actuator, and means whereby the lever may have an endwise shifting movement relatively to the fulcrum point.

1,689,745. STEAM GENERATOR. MARK L. NICHOLS, Auburn, Ala., assignor to Alabama Power Company, a Corporation of Alabama. Filed Sept. 30, 1927. Serial No. 223,171. 7 Claims. (Cl. 122—4.)



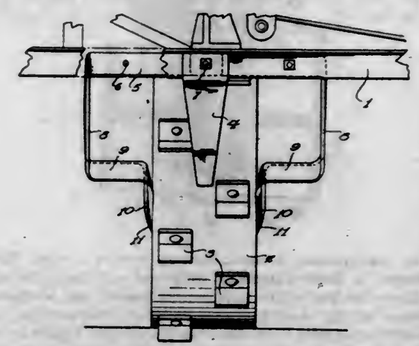
1. The combination with a hot water tank having a thermo-siphon circuit associated therewith and with heating means included in the circuit, of means included in the circuit and adapted to form a steam space, and means, when desired to generate steam, for automatically maintaining a water level in the heating part of the circuit below said steam space.

1,689,746. IRRIGATOR. EVA B. NORTON, New York, N. Y. Filed Mar. 6, 1928. Serial No. 259,524. 3 Claims. (Cl. 128—227.)



1. In an irrigating device, the combination of a liquid container having a rear wall and an open top, a closure for said container, said rear wall having an overflow passage formed, therein, the closure being formed with an opening located adjacent said overflow passage for permitting the egress of gas from the liquid, and a discharge outlet near the bottom of the container.

1,689,747. SCRAPER. ROBERT W. OLSON, Amboy, Minn., assignor of one-half to Melvin W. Keith, Amboy, Minn. Filed June 4, 1926. Serial No. 113,804. 1 Claim. (Cl. 280—158.)

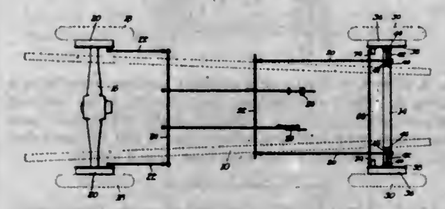


The combination with a frame, and a traction wheel provided with rows of traction lugs, of a scraper finger secured to the frame and depending from the frame and bearing at its free end upon the wheel between the traction lugs, and scrapers arranged at opposite sides of the wheel and each consisting of an arm secured to the frame, a hanger member depending from the arm in laterally spaced relation to the side of the wheel, a web extending from the lower end of the hanger member to the side of the wheel, and a blade projecting forwardly from the inner end of the web in contact with the adjacent side of the wheel.

1,689,748. PROCESS OF MAKING ALKALI-METAL HYPOCHLORITES. ALFRED OPPÉ, Aachen, Germany. Filed June 26, 1926, Serial No. 118,862, and in Germany Apr. 17, 1926. 2 Claims. (Cl. 23—86.)

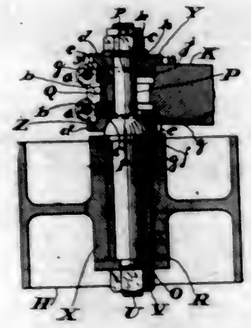
1. Process for the manufacture of solid mixtures of alkali metal hypochlorite and alkali metal chloride which comprises reacting with chlorine on a suspension of dry alkali metal hydroxide in a neutral liquid in which neither alkali metal hypochlorite nor alkali metal chloride are materially soluble.

1,689,749. VEHICLE. HENRI PERROT, Paris, France, assignor to Bendix Corporation, Chicago, Ill., a Corporation of Illinois. Filed Feb. 12, 1925. Serial No. 8,633. 1 Claim. (Cl. 280—95.)



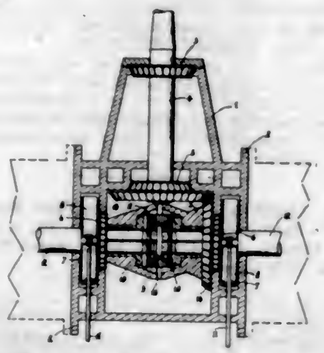
In a front wheel knuckle having braking members, and a backing plate for said members, the combination therewith of a cup-shaped member secured to the plate, a pair of cooperating half-sockets in the cup-shaped member, a cross tie rod, and a ball carried by the tie rod and received between the half-sockets.

1,689,750. ADJUSTABLE SUPPORT FOR STATIONARY SHAFTS. SNOWDEN B. REDFIELD, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 25, 1927. Serial No. 201,521. 1 Claim. (Cl. 308—14.)



In combination, a split bearing having a bore therethrough, a shaft extending with one end into the bore, a flange on the shaft having a spherical end surface, a washer on the shaft having a spherical end surface, said washer being split to enable it to be clamped tightly on the shaft, bushings in the bore having eccentrically disposed apertures to receive the shaft, the outer ends of the apertures being flared to cooperate with the spherical surfaces of the flanges and the washer, said bushings being adapted to be rotated in opposite directions for tilting the shaft with respect to the longitudinal axis of the bore, bolts clamping the bearing on the bushings, and a nut on the shaft bearing against the washer to clamp said washer to the shaft and to hold the flange and washer in engagement with the bushings.

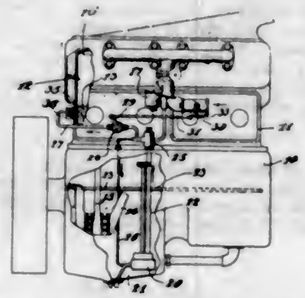
1,689,751. DRIVE UNIT FOR TANDEM AIRCRAFT ENGINES. LYNN H. RENGLER, Long Beach, Calif. Filed Oct. 12, 1926. Serial No. 141,063. 3 Claims. (Cl. 74—34.)



1. A drive unit for tandem aircraft engines comprising a housing to which the engines are adapted to be secured, shafts on said engines, a propeller shaft, differential gear means connecting said first named shafts and the propeller shaft, and brake means on said first named shafts.

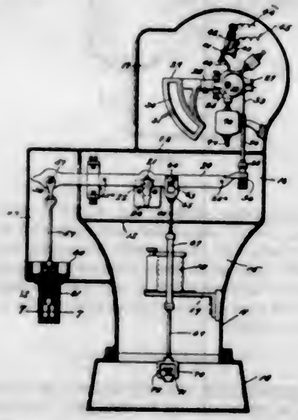
1,689,752. LUBRICATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Oct. 9, 1924. Serial No. 742,637. 2 Claims. (Cl. 123—196.)

1. In an internal combustion engine, a carbureter, gasoline flooding means associated therewith, and a pressure feed lubricating system comprising an oil supply conduit, pipes communicating therewith for supplying oil to the bearings, a pipe also communicating therewith for supplying oil to the cylinder walls, a pressure controlled valve in said cylinder wall supply pipe, and flow control means in



said cylinder wall supply pipe operatively connected to said flooding means, whereby lubricating oil is supplied to the cylinder walls under abnormal pressure conditions, during the operation of said flooding means.

1,689,753. WEIGHT-INDICATING SCALE. HARRY C. SCHAPER, St. Louis, Mo., assignor to The Weight-O-Graph Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 13, 1921. Serial No. 507,492. 9 Claims. (Cl. 265—62.)



1. In a weight indicating scale, a weight receiving member, a pair of co-operating levers, a frame supported in a suspended position by said levers and supporting said weight receiving member, a beam lever, operative connections between said co-operating levers and said beam lever, an oscillating transparent member provided with weight indicia, operative connections between said beam lever and said weight indicia member, a screen, means for projecting said weight indicia in enlarged form upon said screen, said projecting means including a source of light, an electric circuit for said source of light, a manually operable switch for controlling said circuit, and auxiliary contacts interposed in said circuit in parallel with said switch and operable by means of said oscillating member.

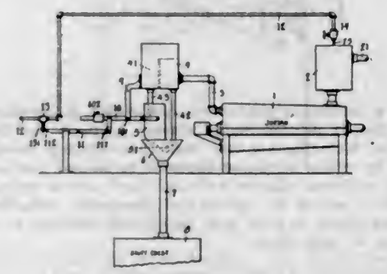
1,689,754. BEARING DEVICE FOR RAILS ON SLEEPERS OF REENFORCED CEMENT. LUIGI SERRA, Rome, Italy. Filed Apr. 19, 1927, Serial No. 184,942, and in Italy Dec. 22, 1926. 2 Claims. (Cl. 238—94.)

1. A railway tie of reenforced cement, comprising oppositely arranged blocks and an arched bridge connecting said blocks, each of said blocks having a lower concave face with depressions in its upper and lower faces, a bushing in each depression, and each block having a plurality of bolt slots therethrough, certain of said slots being ad-



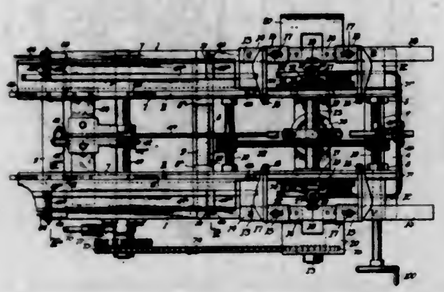
jacent the inner side of the block and others adjacent the outer side of the block, each of said slots being disposed at an angle to both the longitudinal and transverse axes of the tie.

1,689,755. STOCK-REGULATING MECHANISM FOR PAPER-MAKING MACHINES. JOHN ROBERT SPOOR, Kalamazoo, Mich. Filed Oct. 31, 1927. Serial No. 229,940. 4 Claims. (Cl. 92—46.)



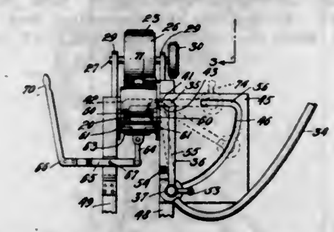
1. In a stock control means for paper making machines, the combination with the Jordan beater and stuff supply box therefor, of a regulating supply chest with a constant level chamber, delivery pipes therefrom, a balanced hopper with restricted outlet, a counterbalanced lever carrying said hopper, a water supply pipe, a needle valve for controlling the same, and connections from said valve to the said counterbalanced lever, as specified.

1,689,756. MECHANISM FOR FEEDING SHEET-METAL BLANKS AND THE LIKE. EDWIN V. SWANGREN, Maywood, Ill., assignor of one-half to William M. Stevenson, Evanston, Ill. Filed Nov. 10, 1923. Serial No. 674,099. 16 Claims. (Cl. 271—32.)



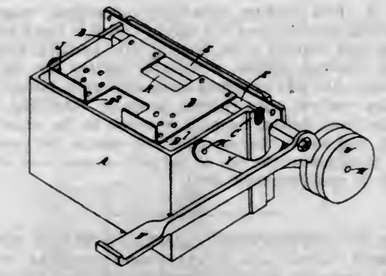
1. In a machine for feeding sheet metal blanks and the like and having intermittently acting means for supporting the central portion of a stack of blanks and reciprocating means for intermittently drawing down marginal portions of the bottom blank, separating means including a movable plate having an inward and upward reciprocating movement transversely of the machine, said movable plate being pivotally mounted on rocking links and arranged to slide upon a stationary portion of the machine.

1,689,757. APPARATUS FOR REMOVING LOOSE PARTICLES FROM THE INTERIOR OF CANS. BURT E. TAYLOR, Mount Vernon, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Original application filed June 18, 1925, Serial No. 37,928. Divided and this application filed Sept. 8, 1927. Serial No. 218,140. 6 Claims. (Cl. 15—15.)



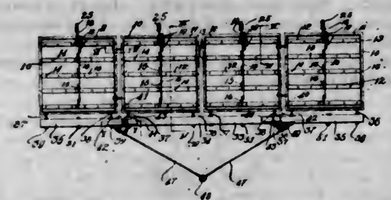
1. An apparatus for removing loose particles from the interior of tin cans and the like comprising, means for rotatively supporting the cans, means for rotating the cans, a nozzle arranged to be connected with a vacuumizing means, and means for inserting the nozzle into the cans.

1,689,758. DEVICE FOR BOSHING TINPLATE AND SHEET BAR SECTIONS. DAVID JOHN THOMAS, Cardiff, and JOHN LEVI VICKERY, Tonteg, Llantwit Vardre, Wales. Filed Feb. 4, 1927, Serial No. 165,879, and in Great Britain Feb. 16, 1926. 6 Claims. (Cl. 266—6.)



1. A device for boshing articles such as tin plate and sheet bar sections consisting in the combination of a tank for containing liquid having a platform for carrying the articles to be boshed pivotally mounted on the said tank and means for pivoting said platform whereby the articles are momentarily immersed in the liquid in said tank.

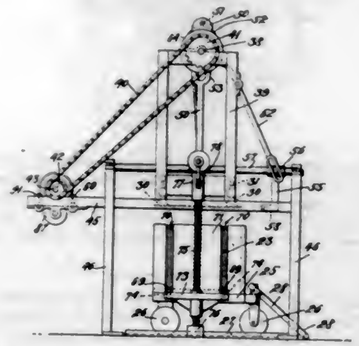
1,689,759. SECTIONAL HARROW. LEONARD P. WOLF, Burlington, Wis. Filed June 28, 1926. Serial No. 118,966. 8 Claims. (Cl. 55—84.)



1. In a sectional harrow, spaced frames pivotally secured together, teeth carrying crossbars journaled in said frames, means including a lever individual to each frame

for rotating said crossbars, a foldable beam secured to said frames, and angular plates adjacent the joints in said beam to limit the pivotal movement of the foldable portions thereof with the corresponding frames and act as a rest therefor, said levers being interlockable to maintain certain of said frames in elevated position.

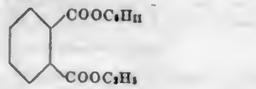
1,689,760. APPARATUS FOR FEEDING SHEET METAL AND THE LIKE. JOHN H. YOUNG and WILBUR G. FRINK, Middletown, N. Y., assignors to The Borden Company, New York, N. Y., a Corporation of New Jersey. Original application filed Aug. 4, 1926, Serial No. 126,990. Divided and this application filed Aug. 19, 1927. Serial No. 214,130. 5 Claims. (Cl. 214—8.5.)



1. A sheet feeding apparatus comprising, means for removing the top sheet of a pile of sheets, a truck mounted on wheels adapted to be brought into position under the sheet removing means, a movable bottom for the truck on which the pile of sheets rests, side walls for the truck having vertical slots therein, laterally extending fingers on the truck bottom adapted to travel in the slots in the walls, and means for engaging and raising the truck bottom to maintain the top of the pile of sheets at substantially a predetermined level.

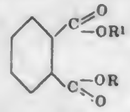
1,689,761. CYCLOHEXYL-ALKYL-PHTHALIC ESTERS. ROGER ADAMS and JAMES FRANKLIN HYDE, Urbana, Ill., assignors to The Newport Company, Carrollville, Wis., a Corporation of Delaware. Filed June 11, 1926. Serial No. 115,397. 3 Claims. (Cl. 260—103.)

1. As a new article of manufacture, cyclohexyl ethyl phthalate of the formula—



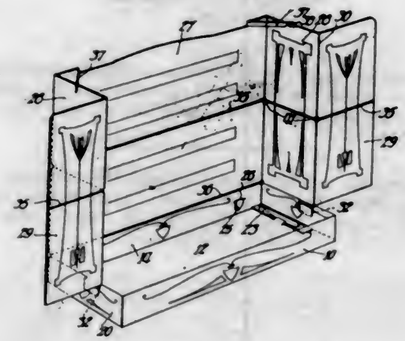
1,689,762. ORGANIC SOLVENT. ROGER ADAMS and JAMES FRANKLIN HYDE, Urbana, Ill. Filed Dec. 8, 1926. Serial No. 153,453. 7 Claims. (Cl. 260—103.)

1. As a new article of manufacture the compound of the general formula—



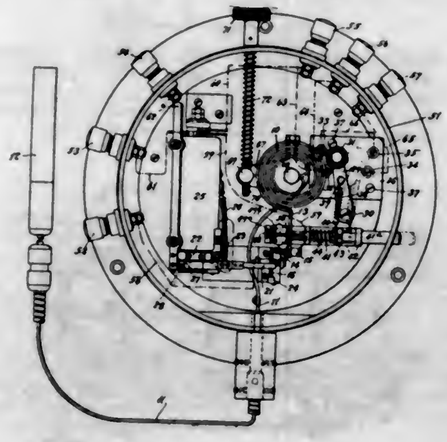
in which R^1 represents an alkyl substituted cyclohexyl group and R an alkyl group.

1,689,763. DISPLAY BOX. SIDNEY C. ANSCHELL, Chicago, Ill., assignor to The Folly Town Company, a Corporation of Illinois. Filed July 14, 1924. Serial No. 725,994. 8 Claims. (Cl. 206—44.)



3. A cardboard display box comprising, in combination, a container portion and a display portion; the display portion including not less than three display panels defined by crease lines and bendable to assume various angular positions relative to each other; and a tongue secured to one of the panels and engageable with the adjoining panel to hold said panels substantially at right angles to each other.

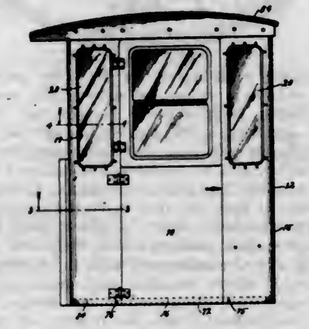
1,689,764. AUTOMATIC CONTROLLER. FRANK J. BAST and ROBERT M. WILHELM, Brooklyn, N. Y., assignors to Charles J. Tagliabue Mfg. Co., New York, N. Y., a Corporation of New York. Filed Sept. 10, 1925. Serial No. 55,640. 3 Claims. (Cl. 200—140.)



1. The combination of a movable contact member, an actuating arm in operative relation with said contact member, an electric relay adapted to actuate said arm, a cooperating contact member, a thermo-sensitive element carrying said cooperating member and arranged to bring the two contact members into engagement with

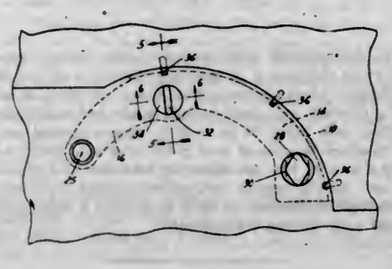
each other to close a predetermined circuit and bring about an electric energization of the relay whereby said arm is actuated to shift the movable contact member to bring a new portion thereof into position for contact engagement by said corresponding contact member.

1,689,765. CAB FOR TRUCKS. KENNETH S. BAXTER, Michigan City, Ind., assignor to Sheet Steel Products Company, Michigan City, Ind., a Corporation of Indiana. Filed Aug. 6, 1923. Serial No. 655,888. 2 Claims. (Cl. 296—28.)



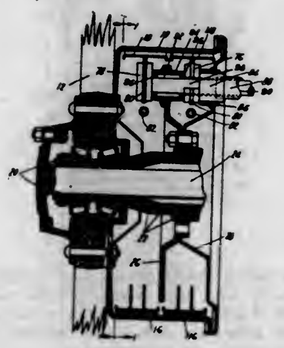
1. In combination, a cab having a top, front, rear and side panels, the front panel having its lower portion removed to form an opening, a cowl in said opening, said cowl comprising an inverted U-shaped member, L-shape in cross-section, having a continuous rearwardly extending flange adapted to fit in said opening, means for adjustably connecting said flange to said front panel, and a filler secured to said cowl and having an opening adapted to receive a dash.

1,689,766. METHOD OF MAKING BRAKES. VINCENT BENDIX, Chicago, Ill., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1926. Serial No. 135,539. 2 Claims. (Cl. 29—148.)



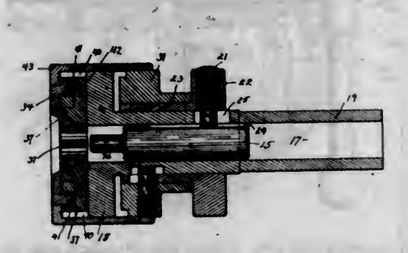
1. That method of making brake shoes which comprises forming a segmental cylindrically-arcuate band with openings for lining rivets forming a flat arcuate stiffening member with gage portions, positioning the band with respect to the stiffening member by gage devices engaging the rivet openings and said portions, and holding the band and stiffening member so positioned and securing them permanently together while so held.

1,689,767. DUPLEX BRAKE. VINCENT BENDIX, Chicago, Ill., and ADIEL Y. DODGE, South Bend, Ind., assignors to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 4, 1926. Serial No. 152,545. 11 Claims. (Cl. 188—79.)



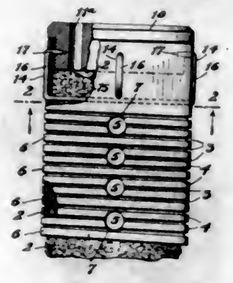
1. A duplex brake comprising, in combination, a drum, a pair of friction devices arranged side by side, a support between the friction devices, an anchor secured to the support and extending therefrom in opposite directions and engaged by the two friction devices, and reinforcing plates engaging opposite sides of the support and additionally supporting said anchor.

1,689,768. SELF-OPENING DIE HEAD. ALBERT F. BREITENSTEIN, New Haven, Conn., assignor to The Geometric Tool Co., New Haven, Conn., a Corporation. Filed Feb. 9, 1927. Serial No. 166,978. 1 Claim. (Cl. 10—96.)



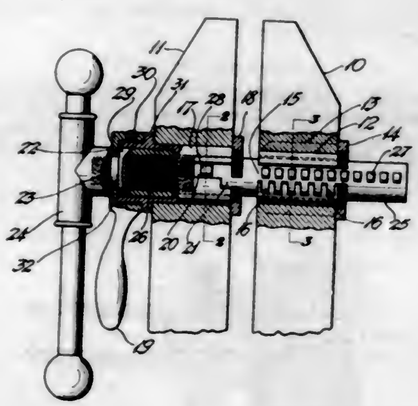
In a self-opening rotary die-head, the combination with a die-body formed with a tubular shank, radially-movable chasers installed in the said body, a chaser-operating cam for positively moving the said chasers in opposite directions, an operating-ring connected with the said cam for oscillating the same, a tripping-sleeve having sliding bearing directly upon the said shank, extending forward within the chaser-cam operating-ring so as to provide a bearing therefor, and provided at its rear end with an annular abutment-flange, an internal tripping-gauge located axially within the said shank, radially-disposed screws mounted in the said abutment-flange for centering the tripping-gauge within the said shank and coupling the same to the said sleeve, and clearance openings formed in the shank for the outward passage of the said screws, the said operating-ring and abutment-flange together forming an annular groove for the reception of an external re-setting member.

1,689,769. SCOURING DEVICE. JULES J. BRELL, New York, N. Y. Filed Aug. 23, 1927. Serial No. 214,835. 6 Claims. (Cl. 15—209.)



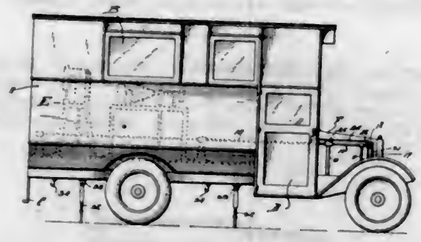
1. An article of the class described having a tubular casing, metallic wool held therein, a rigid member fitted into one end of said casing and fastening means for holding said wool within the casing, said fastening means also uniting said casing and rigid member.

1,689,770. WORKBENCH-VISE SCREW. BENJAMIN F. BRILEY, Shattuck, Okla. Filed Feb. 11, 1927. Serial No. 167,393. 1 Claim. (Cl. 81—37.)



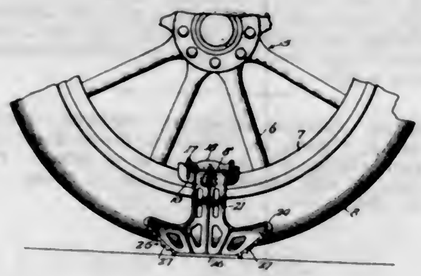
In combination with a fixed rear standard and an outwardly disposed movable clamp, a vise screw assembly comprising a locking sleeve rigidly mounted through the standard and having a longitudinal locking slot with lateral locking indentures along one margin, an operating sleeve journaled through the clamp in alignment with the said locking sleeve and having an operating slot at its inner end, a handle at the outer end of the operating sleeve, a relatively short adjustment sleeve journaled within the operating sleeve, the inner end thereof being interiorly threaded and its outer end being reduced and extending out through the said handle of the operating sleeve, a lever at the outer end of the adjustment sleeve, a shaft journaled within the said locking and operating sleeves the inner end thereof having a plurality of dogs adapted upon rotation of the shaft to releasably engage the said locking indentures of the locking sleeve and the outer end being threaded to engage the inner end of the adjustment sleeve and having a lug back of the threaded portion adapted to releasably engage the operating slot of the operating sleeve.

1,689,771. PORTABLE SHOE SHOP. JIM BRITTON, Bessemer, Ala. Filed Nov. 22, 1927. Serial No. 235,030. 2 Claims. (Cl. 180—53.)



1. A portable workshop of the character described comprising a vehicle, a motor for driving the same, a line shaft extending longitudinally through the vehicle and extending parallel to the motor, an electric generator mounted upon the vehicle, means for driving the generator from the motor, and an operative connection between the generator and the line shaft including a driving element loosely mounted upon the line shaft and operatively connected to the generator shaft, a clutch slidably mounted upon the line shaft and rotatable therewith and shiftable into or out of engagement with the driving element, clutch shipping means engaging said clutch and an operating rod operatively connected to the shipper lever and extending longitudinally into the interior of the vehicle.

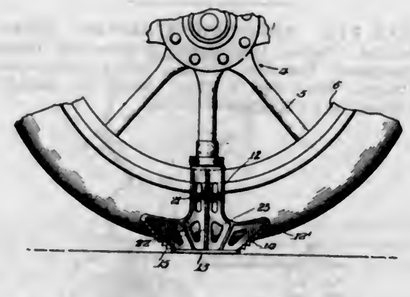
1,689,772. LIFTING DEVICE FOR VEHICLE WHEELS. JOHN H. BROOKMAN, Cedar Rapids, Iowa. Filed Apr. 9, 1927. Serial No. 182,307. 7 Claims. (Cl. 254—94.)



1. In combination with an automobile wheel having a hole formed in the side of the felly thereof, a lifting device comprising a plate having a hole and a slot therein, means passing through said hole in said plate and said felly for attaching said plate to said felly, means formed on said plate to space the top of said plate from said felly, a body having a pair of legs for engaging said slot and straddling said last named means, extensions having inclined bottoms integrally formed on said body, and a base connecting said body and said extensions.

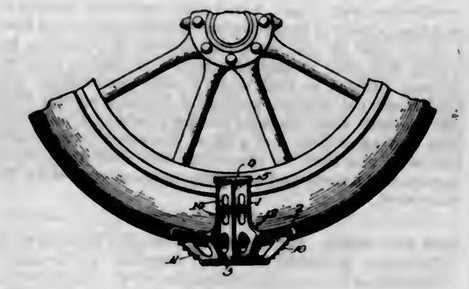
1,689,773. LIFTING DEVICE FOR VEHICLE WHEELS. JOHN H. BROOKMAN, Cedar Rapids, Iowa. Filed Apr. 9, 1927. Serial No. 182,308. 8 Claims. (Cl. 254—94.)

1. A lifting device for vehicle wheels comprising a clamping device adapted to be attached to a wheel spoke and spaced from the wheel felly, a body having a slotted ing thereon for engaging said spoke, said lug being positioned between the bottom of the clamp and the felly to hold the body in relative position, extensions formed on said body and having the lower edges thereof inclined, corrugations formed on said edges to grip the pavement,



and a flat base integrally formed on said body for supporting the vehicle when the wheel is brought to proper position.

1,689,774. LIFTING DEVICE FOR VEHICLE WHEELS. JOHN H. BROOKMAN, Cedar Rapids, Iowa. Filed Apr. 9, 1927. Serial No. 182,309. 2 Claims. (Cl. 254—94.)



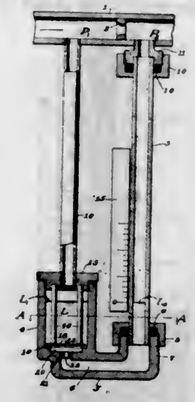
1. The combination of a wheel felly having a slot therethrough of a lifting device cooperating with said slot and comprising a base, a body integral with said base, a lug integral with said body and substantially parallel with said base and adapted to be received in said slot, outwardly extending projections on the sides of said body and integral with said body and said base, said projections extending upwardly substantially midway between the base and the lug and provided with rounded bottoms, and ground engaging teeth on said rounded bottoms arranged progressively outward from bottom to the upper end of the said bottoms.

1,689,775. CALCICATED IODINE AND PROCESS OF PREPARING SAME. WALLACE L. CHANDLER, East Lansing, Mich. Filed May 1, 1924. Serial No. 710,420. 4 Claims. (Cl. 23—5.)

1. A stable aqueous solution of calcicated iodine containing an excess of iodine capable of yielding, under the influence of a strong acid, a crystalline form of iodine.

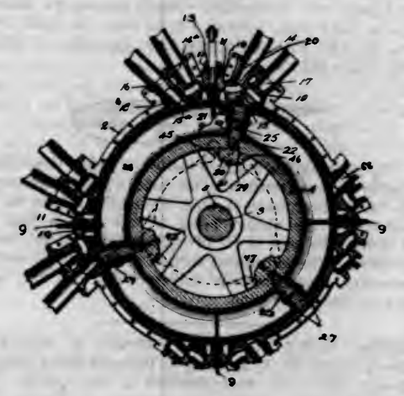
1,689,776. FLOW METER. CLARENCE A. DAWLEY, Plainfield, N. J. Filed Apr. 4, 1924. Serial No. 704,243. 4 Claims. (Cl. 73—167.)

1. In a fluid metering system, head producing means, a liquid manometer for showing head connected to said means, and a check valve restricting downward motion of the manometer liquid to a certain degree and restricting



upward motion of the manometer liquid to a greater degree, said check valve comprising a seat with a restrictive opening and a light disc with more restrictive opening.

1,689,777. ROTARY STEAM ENGINE. LOUIS GEORGE, New York, N. Y. Filed June 5, 1924. Serial No. 718,104. 4 Claims. (Cl. 121—76.)

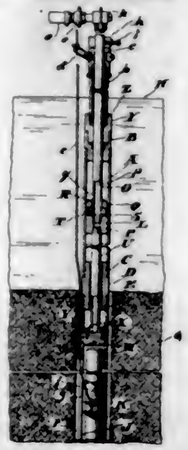


1. In a rotary steam motor, a rotor and a casing therefor, a steam cylinder extending entirely around the periphery of the rotor, a set of forward inlet and exhaust ports, and a set of reverse inlet and exhaust ports grouped on the casing in a series of independent groups, a valve to each port, a cam on the rotor shaft, a valve link for each induction valve to open the inlet ports and operated by said cam, a trip rod to close each inlet port, a cylinder abutment mounted between the forward and reverse inlet ports of each group and means to move said abutment successively into and out of operative position in said cylinder in timed relation to the opening and closing of said induction port.

1,689,778. PNEUMATIC CHARGING DEVICE. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 14, 1927. Serial No. 226,110. 1 Claim. (Cl. 86—21.)

A pneumatic charging device, comprising a cylinder, a piston reciprocable thereon, a plunger, a tube at one end

of the cylinder adapted to be inserted into a drill hole and forming a chamber for conveying an explosive into the drill hole, a hollow rod connecting the plunger and the piston to transmit the movement of the piston to the plunger for



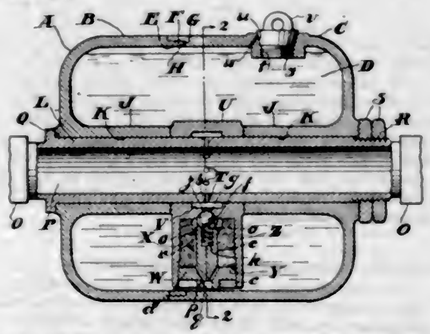
expelling such explosive from the tube and compressing it in the drill hole, said rod having a port for admitting pressure fluid from the rod into the cylinder, and means connecting the rod with a pressure fluid supply.

1,689,779. GUIDE APPARATUS FOR THE PROPELLER STREAM OF VESSELS. JENS BRODERSEN HIORTH, Hovik, near Oslo, Norway. Filed Sept. 22, 1927, Serial No. 221,246, and in Norway Sept. 28, 1926. 3 Claims. (Cl. 114—162.)



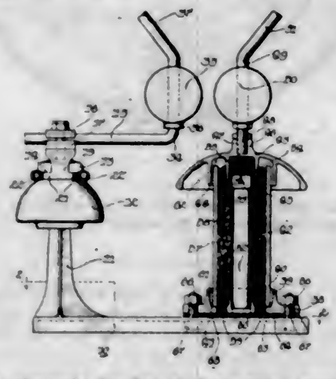
1. In combination a ship's rudder, a guide vane for the propeller stream attached to the rudder post asymmetrically to the vertical plane through the center line of the propeller shaft, the rudder being of the stream line type and having the axis of its pivots arranged off the median line through the horizontal section of the rudder with an asymmetry approximately corresponding to the asymmetry of the guide vane.

1,689,780. AIR-LINE OILER. GEORGE W. HULSHIZER, Stewartsville, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 25, 1927. Serial No. 194,081. 5 Claims. (Cl. 184—55.)



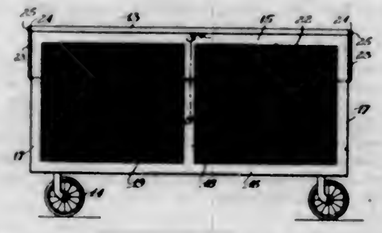
2. An air line oiler comprising a plurality of casing sections forming a reservoir for oil, means for holding the sections in fluid tight engagement with each other, said means having a passageway for conveying pressure fluid through the casing, and means associated with means for conveying pressure fluid from the passageway into the reservoir and oil from the reservoir into the passageway.

1,689,781. LIGHTNING ARRESTER. ERNEST H. JACOBS, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1921. Serial No. 442,341. 4 Claims. (Cl. 175—30.)



1. An electrode for lightning arresters comprising, in combination with a base, a foot piece removably secured to said base, a shell of insulating material carried on said base, a water shed on the other end of said shell, means for sealing said shell in said foot piece and shed, a solid resistance element in said shell, a filler surrounding said solid resistance element, means for introducing this filler into the shell after the same has been secured to said foot piece and water-shed, and a plate interposed between said foot piece and base for preventing said filler from working out of the shell, and an arcing terminal carried by the water-shed.

1,689,782. CRIB. DEWEY M. KENNEDY and BENJAMIN H. KENNEDY, Rochester, N. Y., assignors to Kennedy-McCandless Corporation, Rochester, N. Y., a Corporation of New York. Filed July 28, 1925. Serial No. 46,639. 5 Claims. (Cl. 5—97.)

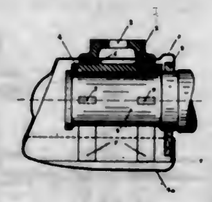


1. In combination, a crib body, a top therefor, and a member extending substantially the length of the body along one of its side walls and pivotally secured in notches formed therein and having angularly disposed ends connected with the top, said member permitting the top to move bodily from a position overlying the crib-outwardly and downwardly to a vertical position at the side thereof.

1,689,783. BEARING ESPECIALLY FOR RAILWAY VEHICLES. FERENC KERTÉSZ, Budapest, Hungary. Filed Oct. 1, 1925, Serial No. 59,854, and in Germany Oct. 4, 1924. 2 Claims. (Cl. 308—39.)

1. A journal box for a railway car comprising a housing, a pair of stirrups each having a semicircular section

positioned within the housing, a semicircular bearing placed in the top of said housing and resting against the semicircular section of said stirrups, means on the bearing



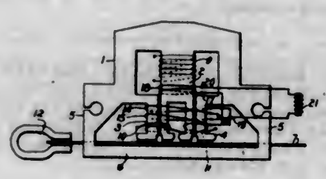
coacting with said stirrups for preventing longitudinal movement of said bearing relative to said housing and removable means co-operating with the housing for preventing rotation of said bearing.

1,689,784. PROCESS OF FORMING ANNULAR PLATES. FRED R. KLAUS, Warren, Ohio, assignor to The American Welding and Manufacturing Company, Warren, Ohio, a Corporation of Ohio. Filed Dec. 15, 1924. Serial No. 755,924. 8 Claims. (Cl. 29—156.)



1. The method of changing the plane of an annular body disposed longitudinally with respect to the axis thereof to a substantially transverse position with respect to said axis, which comprises pressing the annular body between one or more sets of cooperative dies and rotating the flange while keeping the median line of the body as it is being rotated at substantially the same radial distance from said axis.

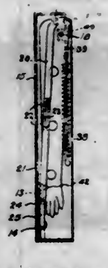
1,689,785. TEMPERATURE-COMPENSATING DEVICE. MONTGOMERY KNIGHT, Holyoke, Mass., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 29, 1925. Serial No. 65,633. 10 Claims. (Cl. 171—264.)



1. The combination with a flux-producing element, of flux-producing means including differentially related windings inductively excited thereby and responsive to temperature variations for compensating said element for changes caused by temperature variations in the flux thereof.

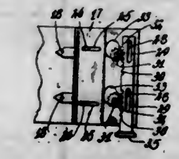
1,689,786. DIRECTION INDICATOR. KURT KOENIGSNAG, Seattle, Wash. Filed Aug. 25, 1927. Serial No. 215,304. 7 Claims. (Cl. 116—52.)

1. A direction indicator, embodying a housing open at one edge, a signal arm pivoted at its upper end within said housing for swinging movement into and out of the housing, a counterbalancing rod connected with the upper end of the signal arm and curved to clear said signal arm pivot, a tension spring connected with the lower end of said rod and secured within said housing below said signal arm pivot whereby the spring will tend to hold the signal arm in an elevated position and the line of pull of the spring will



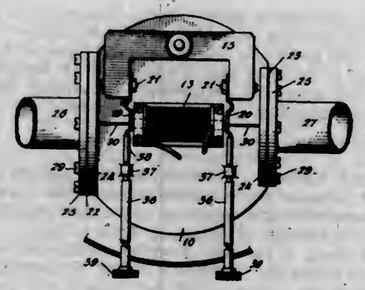
cross the center of said signal arm pivot and tend to urge the signal arm into the housing when said signal arm is lowered and means for raising and lowering said signal arm.

1,689,787. HOLDER FOR SOAP. GEBHARD KUPFERSCHMID, New York, N. Y. Filed Mar. 24, 1927. Serial No. 178,043. 2 Claims. (Cl. 45—28.)



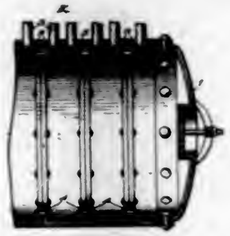
1. In a soap holder, a plate comprising an upwardly disposed end portion, inwardly directed prongs on said upwardly directed end portion, an adjustable jaw slidably mounted on the rear end portion of said plate, prongs on said adjustable jaw, a rack bar slidably mounted on the end portion of said plate, spaced apart gears pivotally mounted on said plate adapted to mesh with the teeth of said rack bar, and cams rigidly attached to said gears adapted to rotate therewith and to engage the end of said adjustable jaw for forcing the same forwardly to cause the prongs of the jaw and the prongs of the forward end of said plate to be embedded in the ends of a cake of soap when said rack bar is moved inwardly.

1,689,788. SOUND-REPRODUCING INSTRUMENT. LOUIS G. LARSEN, Jersey City, N. J. Filed Apr. 1, 1925. Serial No. 19,813. 5 Claims. (Cl. 179—116.)



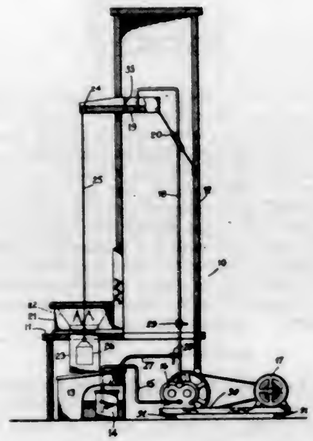
1. In a sound reproducer, an electromagnet, vibrators mounted adjacent to the poles of said magnet, a pair of diaphragms connected with said vibrators and means for selectively preventing the vibration of either of said diaphragms.

1,689,789. METHOD OF PRODUCING SECTIONAL BOILER DRUMS. GEORGE LASKER, Chicago, Ill. Filed Sept. 19, 1925. Serial No. 57,448. 1 Claim. (Cl. 29—157.4.)



The method of making a boiler drum section, comprising piercing an ingot and thence rolling it so as to thin its peripheral wall and increase the diameter, removing spaced portions of material from the wall to form tube receiving openings and forming a flange laterally of said wall.

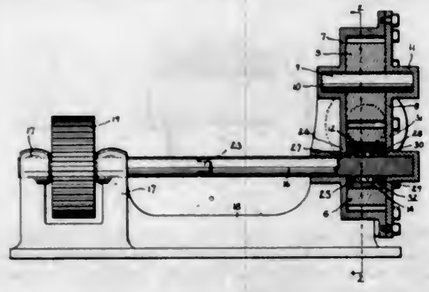
1,689,790. DISPLAY DEVICE. ARTHUR LEFEVRE, Jr., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 3, 1926. Serial No. 152,383. 8 Claims. (Cl. 35—16.)



3. An advertising display device, comprising a pair of vertically disposed converging guides spaced apart at their upper ends and joined together at their lower ends, means disposed at the lower ends of said guides for keeping them taut, and means for continuously discharging liquid between the spaced upper ends of the guides.

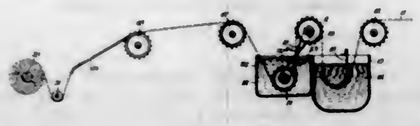
1,689,791. PUMP. JOHN M. MCCLATCHIE, New York, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 29, 1926. Serial No. 151,304. 4 Claims. (Cl. 103—126.)

1. A pump of the class described comprising, a casing having an inlet and an outlet, a pair of intermeshing gears located in the casing, a shaft for the first gear journaled within the casing, a shaft for the second gear journaled in the casing and extending through one side thereof, means for driving the second shaft, a hub formed on the second shaft and on which the second gear is mounted, a metal washer interposed between one end of the hub and the adjacent part of the casing, a second metal washer interposed between the other end of the hub and the adjacent part of the casing, the hub being provided with a recess surrounding the shaft, and a spring located in the recess and



pressing at one end against the hub to force the first washer against the adjacent part of the casing and pressing at the other end against the second washer.

1,689,792. METHOD FOR COATING WIRE FABRIC. JOHN W. MEAKER, Evanston, Ill. Filed Apr. 30, 1925. Serial No. 26,935. 4 Claims. (Cl. 91—70.2.)



1. The method of coating wire fabric which consists in applying a liquid coating to the fabric, separating the wires while the coating is liquid, and positively applying means to the coating at a predetermined point to cause it to harden while said wires are separated.

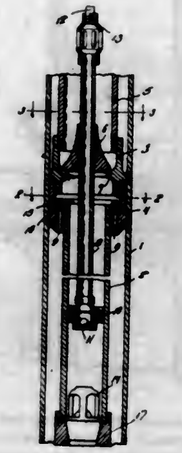
4. The method of coating wire fabric which consists in applying a liquid coating to the fabric, positively driving the fabric at two spaced points, the drive being so related as to permit slack in the fabric between the drive points, yieldingly engaging the fabric between the drive points in such manner as to separate the wire at a predetermined point, and applying to the wires at such point means for hardening the coating.

1,689,793. METHOD OF APPLYING BREAKER STRIPS IN THE MANUFACTURE OF TIRE CASINGS. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed July 26, 1926. Serial No. 124,940. 3 Claims. (Cl. 154—14.)



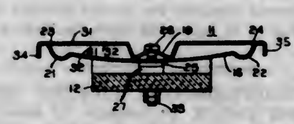
1. A method of making a tire casing which comprises forming the carcass portion thereof in flat band form, forming a strip of tread rubber of a length substantially equal to the circumference of the flat band carcass, stretching the strip of rubber to a length substantially equal to the circumference of the tire when expanded to tire form, adhesively securing to the stretched strip of rubber a length of breaker fabric in unstretched condition, permitting the strip of tread rubber to contract to substantially its original length, adhesively securing the combined tread and breaker strips to the flat band carcass, and expanding the carcass into tire form.

1,689,794. DOUBLE-ACTING PUMP. ANDREW P. MORRIS, Snyder, Tex., assignor of one-tenth to C. Frank Sentell, Snyder, Tex. Continuation of application Serial No. 131,922, filed Aug. 24, 1926. This application filed Nov. 8, 1927. Serial No. 231,859. 1 Claim. (Cl. 103—190.)



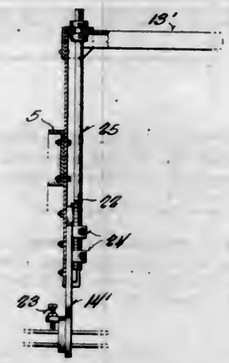
In a double-acting pump for wells, a cylindrical barrel open at its upper end, well tubing of larger diameter than said barrel, a coupling sleeve embodying a lower section threaded onto the upper end of said barrel, said lower coupling sleeve section having a horizontal internal annular valve seat and being formed with axially extending intake ports in its lower end which open at their upper ends through said seat, said seat and said port directly surrounding the upper end of said barrel, a downwardly seating ring valve associated with said seat, said coupling sleeve further embodying an upper section threaded into the lower section and having a horizontal internal annular valve seat, said tubing being connected to said upper coupling sleeve section, a hollow piston rod having a valved piston on its lower end working in said barrel and provided with outlets at its upper end, a downwardly seating check valve slidably fitted on the piston rod and cooperating with the last named valve seat, the last named valve seat having an internal diameter greater than the diameter of the piston, and said check valve having a diameter lesser than the internal diameter of the tubing, to permit free upward removal of the piston and the check valve with the piston rod from the barrel and the tubing.

1,689,795. THERMAL-CONTROL SWITCH. AUGUST J. MOTTLAU, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 15, 1926. Serial No. 141,712. 9 Claims. (Cl. 200—139.)



1. A thermally-actuable switch comprising a resilient frame having an elongated aperture therein, a bridging member secured to said frame and extending across said aperture and means cooperating with a deformed portion of said frame for applying an initial longitudinal stress to said bridging member.

1,689,796. ATTACHMENT FOR TRACTORS. EDWARD C. MYERS, Milwaukee, Wis., assignor to Wehr Co., Milwaukee, Wis. Filed June 9, 1926, Serial No. 114,791. Renewed May 14, 1928. 10 Claims. (Cl. 180—1.)



1. An attachment for tractors comprising a pair of frame members adapted to extend along opposite sides of a tractor, steering means for supporting the front end of the frame members, means for clamping the rear end of the frame members to the rear end of the tractor, and movable clamps carried by the frame members for engaging and raising the front axle of the tractor.

1,689,797. FIXTURE FOR SHAVING OFF FILLINGS IN CLUTCH PLATES. ERNEST C. MYERS, Norwich, Conn. Filed Mar. 2, 1927. Serial No. 172,173. 6 Claims. (Cl. 145—129.)

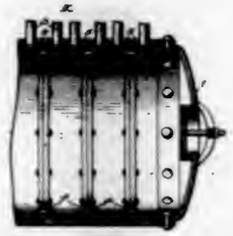


6. A fixture for supporting a clutch plate during the shaving off of fillings which project beyond opposite faces of a plate, said fixture comprising a round base having a flat face formed with a concentric groove to receive the plate, the inner side wall of the groove being of a proper size to snugly fit the inner edge of the plate to prevent lateral movement of the latter, said groove being provided with shelves on opposite sides thereof which are raised a proper distance to support the plate with the depending fillings free from the floor of the groove and with the upwardly extending fillings arranged to project above the flat face of the base the amount to be shaved off.

1,689,798. BURNER. FRANK A. NIEBERDING, deceased, East Cleveland, Ohio, by Margaret H. Nieberding, administratrix, East Cleveland, Ohio. Filed Nov. 5, 1925. Serial No. 66,988. 13 Claims. (Cl. 126—92.)

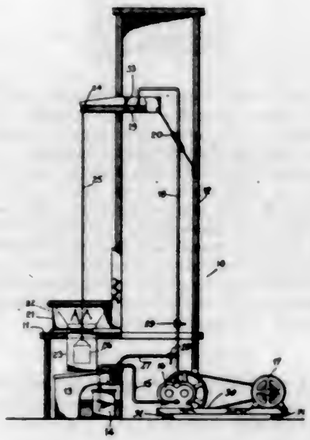
2. A gas burner comprising a frame, a manifold situated below and secured to the frame, said manifold having a

1,689,789. METHOD OF PRODUCING SECTIONAL BOILER DRUMS. GEORGE LASKER, Chicago, Ill. Filed Sept. 19, 1925. Serial No. 57,448. 1 Claim. (Cl. 29—157.4.)



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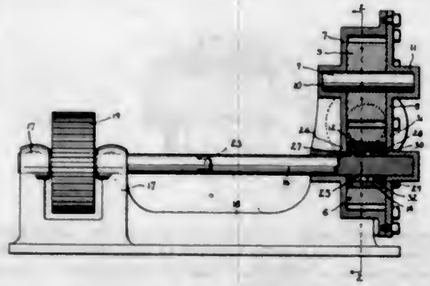
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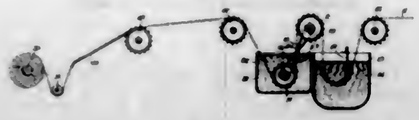
1,689,791. PUMP. JOHN M. MCCLATCHIE, New York, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 29, 1926. Serial No. 151,304. 4 Claims. (Cl. 103—126.)

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pressing at one end against the hub to force the first washer against the adjacent part of the casing and pressing at the other end against the second washer.

1,689,792. METHOD FOR COATING WIRE FABRIC. JOHN W. MEAKER, Evanston, Ill. Filed Apr. 30, 1925. Serial No. 26,935. 4 Claims. (Cl. 91—70.2.)



1. The method of coating wire fabric which consists in applying a liquid coating to the fabric, separating the wires while the coating is liquid, and positively applying means to the coating at a predetermined point to cause it to harden while said wires are separated.

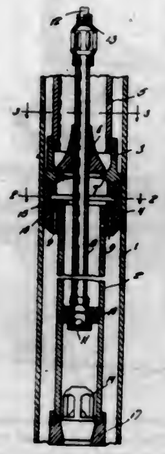
4. The method of coating wire fabric which consists in applying a liquid coating to the fabric, positively driving the fabric at two spaced points, the drive being so related as to permit slack in the fabric between the drive points, yieldingly engaging the fabric between the drive points in such manner as to separate the wire at a predetermined point, and applying to the wires at such point means for hardening the coating.

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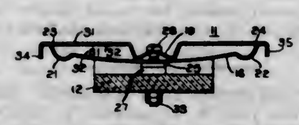
1. A method of making a tire casing which comprises forming the carcass portion thereof in flat band form, forming a strip of tread rubber of a length substantially equal to the circumference of the flat band carcass, stretching the strip of rubber to a length substantially equal to the circumference of the tire when expanded to tire form, adhesively securing to the stretched strip of rubber a length of breaker fabric in unstretched condition, permitting the strip of tread rubber to contract to substantially its original length, adhesively securing the combined tread and breaker strips to the flat band carcass, and expanding the carcass into tire form.

1,689,794. DOUBLE-ACTING PUMP. ANDREW P. MORRIS, Snyder, Tex., assignor of one-tenth to C. Frank Sentell, Snyder, Tex. Continuation of application Serial No. 131,922, filed Aug. 24, 1926. This application filed Nov. 8, 1927. Serial No. 231,859. 1 Claim. (Cl. 103—190.)



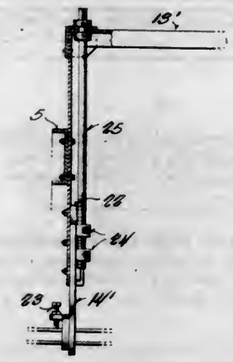
In a double-acting pump for wells, a cylindrical barrel open at its upper end, well tubing of larger diameter than said barrel, a coupling sleeve embodying a lower section threaded onto the upper end of said barrel, said lower coupling sleeve section having a horizontal internal annular valve seat and being formed with axially extending intake ports in its lower end which open at their upper ends through said seat, said seat and said port directly surrounding the upper end of said barrel, a downwardly seating ring valve associated with said seat, said coupling sleeve further embodying an upper section threaded into the lower section and having a horizontal internal annular valve seat, said tubing being connected to said upper coupling sleeve section, a hollow piston rod having a valved piston on its lower end working in said barrel and provided with outlets at its upper end, a downwardly seating check valve slidably fitted on the piston rod and cooperating with the last named valve seat, the last named valve seat having an internal diameter greater than the diameter of the piston, and said check valve having a diameter lesser than the internal diameter of the tubing, to permit free upward removal of the piston and the check valve with the piston rod from the barrel and the tubing.

1,689,795. THERMAL-CONTROL SWITCH. AUGUST J. MOTTLAU, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 15, 1926. Serial No. 141,712. 9 Claims. (Cl. 200—139.)



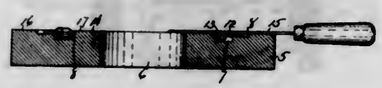
1. A thermally-actuable switch comprising a resilient frame having an elongated aperture therein, a bridging member secured to said frame and extending across said aperture and means cooperating with a deformed portion of said frame for applying an initial longitudinal stress to said bridging member.

1,689,796. ATTACHMENT FOR TRACTORS. EDWARD C. MYERS, Milwaukee, Wis., assignor to Wehr Co., Milwaukee, Wis. Filed June 9, 1926, Serial No. 114,791. Renewed May 14, 1928. 10 Claims. (Cl. 180—1.)



1. An attachment for tractors comprising a pair of frame members adapted to extend along opposite sides of a tractor, steering means for supporting the front end of the frame members, means for clamping the rear end of the frame members to the rear end of the tractor, and movable clamps carried by the frame members for engaging and raising the front axle of the tractor.

1,689,797. FIXTURE FOR SHAVING OFF FILLINGS IN CLUTCH PLATES. ERNEST C. MYERS, Norwich, Conn. Filed Mar. 2, 1927. Serial No. 172,173. 6 Claims. (Cl. 145—129.)

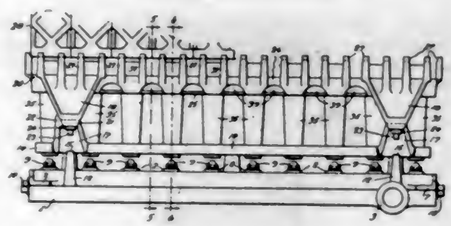


6. A fixture for supporting a clutch plate during the shaving off of fillings which project beyond opposite faces of a plate, said fixture comprising a round base having a flat face formed with a concentric groove to receive the plate, the inner side wall of the groove being of a proper size to snugly fit the inner edge of the plate to prevent lateral movement of the latter, said groove being provided with shelves on opposite sides thereof which are raised a proper distance to support the plate with the depending fillings free from the floor of the groove and with the upwardly extending fillings arranged to project above the flat face of the base the amount to be shaved off.

1,689,798. BURNER. FRANK A. NIEBERDING, deceased, East Cleveland, Ohio, by Margaret H. Nieberding, administratrix, East Cleveland, Ohio. Filed Nov. 5, 1925. Serial No. 66,988. 13 Claims. (Cl. 126—92.)

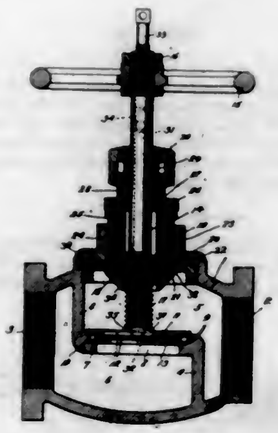
2. A gas burner comprising a frame, a manifold situated below and secured to the frame, said manifold having a

series of gas emitting orifices that are spaced apart along the upper side of the manifold, the frame having holes in axial alignment with said orifices, and burner tubes re-



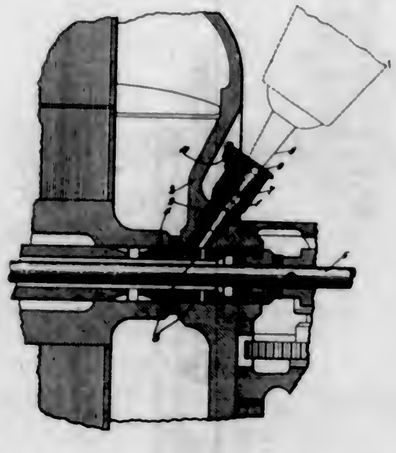
movably supported within said holes, the frame incorporating means for supporting radiants above and in operative relation to the upper ends of the burner tubes.

1,689,799. VALVE. SVEN JOHAN NORDSTROM, Saratoga, Calif., assignor to Merco Nordstrom Valve Company, San Francisco, Calif., a Corporation of Delaware. Filed Dec. 14, 1925. Serial No. 75,161. 3 Claims. (Cl. 251—36.)



2. A valve comprising, a casing having an annular valve seat therein, a plug adapted to be seated against the valve seat, a stem extending from the plug outwardly through the casing and having a threaded part, a threaded bushing surrounding the valve stem, a bonnet secured to the casing, said bonnet and bushing having overlapping parts, a flexible ring interposed between the overlapping parts of the bonnet and the bushing, a reservoir for containing a plastic grinding mixture located in the valve stem and extending into the plug, said plug having a hole extending from the reservoir to the bearing surface of the plug, means for putting the plastic substance under pressure to force it out through the hole and thereby slightly separate the bearing surfaces of the plug and valve seat, a packing interposed between the bushing and the bonnet, a nut threaded on the bushing for putting the packing under pressure and thereby holding the bushing and the bonnet against relative movement, and means for rotating the bushing and valve stem to rotate the plug against its seat when the nut has been turned to permit relative movement between the bushing and the bonnet.

1,689,800. OIL CUP. KING L. PARKER, St. Louis, Mo., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Apr. 2, 1927. Serial No. 180,444. 2 Claims. (Cl. 184—91.)



2. An oil cup adapted to be connected into a lubricant passage and comprising a chamber of relatively large diameter having an open outer end, a closure for said chamber movable to and from closed position, and a conical wall rigid within said chamber tapering inwardly from the open outer end of said chamber and having an unobstructed opening at its inner end permitting insertion and withdrawal of the spout of an oil can therethrough.

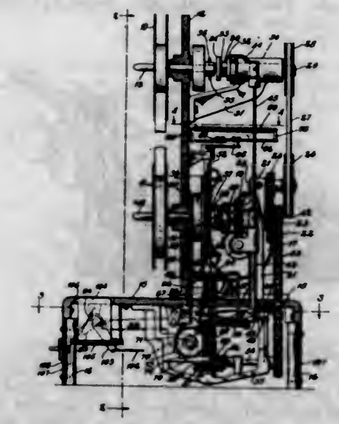
1,689,801. VALVE TAPPET. ARTHUR W. POPE, Jr., Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Mar. 12, 1925. Serial No. 15,092. 1 Claim. (Cl. 123—90.)



A valve tappet comprising an outer tubular member, a first tubular member within said outer member, a second tubular member within the first member, and a third member within the second tubular member, said first member bearing at one end on the outer member and said second member bearing at one end on the other end of the first member, the third member bearing at one end on the other end of said second member, the second member having a different coefficient of expansion than the first and third members.

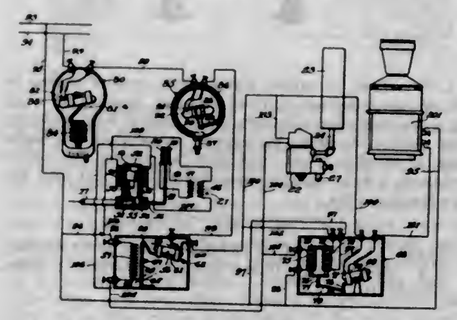
1,689,802. FILM-PROJECTION MACHINE. BARTON A. PROCTOR, New York, N. Y., assignor, by mesne assignments, to The Automatic Advertiser, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Oct. 3, 1925. Serial No. 60,166. 5 Claims. (Cl. 242—55.)

4. In combination, a housing, a support outside of said housing, a pair of reel shafts mounted on said support, a film supply reel mounted on one of said shafts, a film receiving reel mounted on the other of said shafts, driving means for drivingly connecting said reels either to transfer the film from said supply reel to said receiving reel or from said receiving reel to said supply reel, reversing means operatively connected to said driving means for reversing the



direction of travel of said film, said reversing means being located in said housing, a counter in said housing having a control arm, a link in said housing connecting the control arm of said counter with said reversing means whereby the actuation of said reversing means will actuate said counter, and means for locking said housing to prevent tampering with said counter.

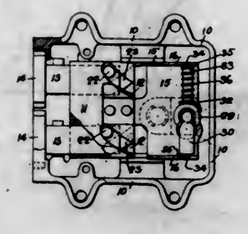
1,689,803. CONTROLLING MECHANISM FOR OIL BURNERS. OSCAR C. SCHROEDER, Chicago, Ill. Filed Mar. 12, 1927. Serial No. 174,782. 5 Claims. (Cl. 158—28.)



1. The combination with a burner, of means for operating the burner, electrical mechanism including a circuit controlling the actuation of said means, a switch controlling said circuit, a second switch controlling said circuit, a second circuit, a third switch controlling said second circuit, means controlled by the heat produced by the burner for controlling said third switch, a fourth switch controlling said first circuit, an electro-magnet having two windings and controlling said first-named switch and operable only by energization of both of said windings

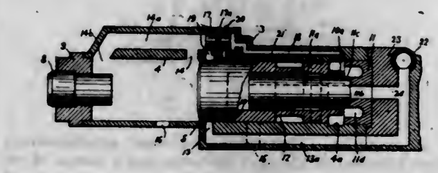
but operating to hold said first-named switch in the position to which it is actuated by said magnet by current flowing through one winding only, said fourth switch controlling both of said windings and said third switch one only of said windings, and means controlled by said third switch for controlling said second switch operating after the lapse of a predetermined length of time to condition said second switch for discontinuing the operation of said first-named means.

1,689,804. LOCK. SAMUEL SEGAL, New York, N. Y., assignor to Segal Lock & Hardware Co. Inc., New York, N. Y., a Corporation of New York. Filed Dec. 31, 1926. Serial No. 158,135. 9 Claims. (Cl. 70—14.)



1. A lock, including, in combination, a case, a carrier movable within said case, a bolt rotatably supported by said carrier, and a single means associated with said bolt and cooperating with said carrier and case to effect a rotation of said bolt and limit the projection thereof.

1,689,805. PNEUMATIC HAMMER. EDWARD W. STEVENS, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed July 30, 1926. Serial No. 125,835. 9 Claims. (Cl. 121—18.)

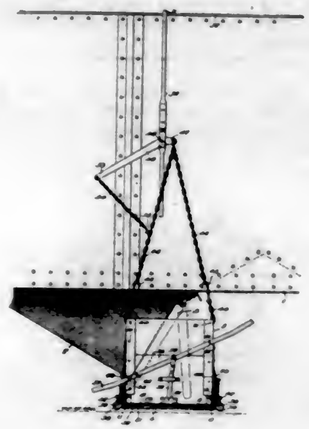


1. A fluid pressure tool comprising a cylinder providing a piston chamber, a piston reciprocable in said chamber and having an internal bore, the end wall of said bore forming a pressure area for driving the piston forwardly, a fixed member extending axially into said piston chamber and into said bore to admit motive fluid continuously to said area, piston controlled means for intermittently feeding and venting motive fluid to the ends of the piston, an automatic valve controlled by said piston for prolonging the feeding of motive fluid to one end area of the piston and for providing an auxiliary exhaust for the other end area, and means utilizing motive fluid from the internal bore of said piston for moving the valve in one direction.

1,689,806. BALLAST-SPREADING DEVICE. BERNARD W. STRAW, Mount Airy, Md., assignor to Straw Ballast Distributer Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 2, 1927. Serial No. 203,118. 14 Claims. (Cl. 105—239.)

1. In combination, a railway car having an opening for the discharge of ballast or the like, and a ballast

spreading device adapted to receive ballast discharged through said opening and deliver it to the roadbed, said device including a pan member having an opening in the



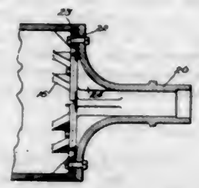
bottom thereof, and a sliding door for said opening, said door being curved at its ends so as to permit it to shift its angular position in its plane of operation.

1,689,807. HYDROPLANE. CARL H. TRAVER, Binghamton, N. Y. Filed Nov. 27, 1926, Serial No. 151,058. Renewed Apr. 18, 1928. 5 Claims. (Cl. 244—2.)



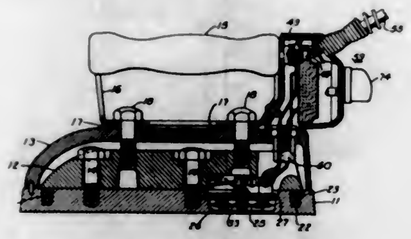
2. An aeroplane comprising pontoons, supplementary runners attached to the said pontoons and a means of extending the said supplementary runners.

1,689,808. RETORT. EDWARD P. VAN STONE, Reading, Mass., assignor to General Alloys Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1927. Serial No. 181,718. 6 Claims. (Cl. 263—48.)



1. In a retort, the combination of a large hollow body portion and a separate relatively small hollow neck secured together, said body portion having a slotted flange extending therefrom, said neck having an outwardly flared portion arranged to engage the flange on said body portion.

1,689,809. THERMOSTATIC DEVICE. VICTOR G. VAUGHAN, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 30, 1927. Serial No. 222,977. 7 Claims. (Cl. 219—20.)



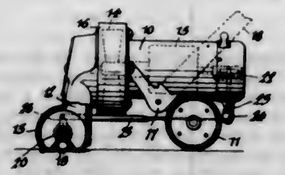
6. The combination with a thermostat, an electric circuit controlled thereby in accordance with a thermal condition to be controlled and a heating element disposed in thermal relation to said thermostat and controlled thereby, of means for controlling the value of current traversing the heating element comprising a plurality of resistor elements and a selector switch for varying the circuit connections of said resistor elements to said heating element.

1,689,810. METHOD OF MAKING METAL ARTICLES. EDMUND MERRIMAN WISE, Cincinnati, Ohio, assignor to Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed Nov. 5, 1926. Serial No. 146,511. 5 Claims. (Cl. 29—160.6.)



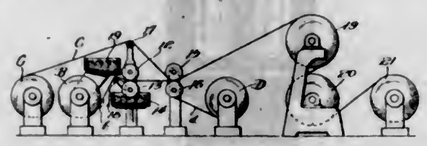
1. A method of making plated metal articles having intricate irregularities in their surfaces, comprising shaping a base metal substantially to the desired form including said surface irregularities, coating the shaped base metal with a suitable metal, and then subjecting the coated article to a final shaping operation to bring out said surface irregularities.

1,689,811. VACUUM CLEANER. MILTON WITT, Buffalo, N. Y. Filed July 12, 1926. Serial No. 121,768. 1 Claim. (Cl. 15—10.)



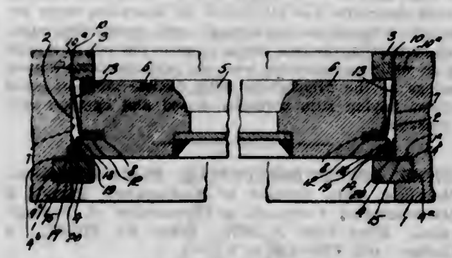
In a vacuum cleaner, the combination of a frame having a vacuum chamber terminating in a nozzle, a compartment formed in the nozzle below and in communication with said vacuum chamber, said compartment having an opening in its rear wall, an oscillatory brush mounted on said frame and extending through said compartment, the brush having a rock arm thereon operable in said compartment, and actuating mechanism for the brush including a rotary crank member and a link connecting the rock arm with the crank member, said parts being located exterior of the frame and said link passing through said compartment-opening.

1,689,812. FIBER BOARD AND PROCESS OF MAKING THE SAME. FREDERICK P. WOOD, Adrian, Mich., assignor to Simplex Paper Corporation, Adrian, Mich., a Corporation of Michigan. Filed Nov. 17, 1926. Serial No. 148,798. 6 Claims. (Cl. 154—2.)



6. The process of making a multiple-ply board from fibrous sheets which consists in subjecting one sheet to a water treatment whereby the fibers are expanded, in combining with said water treatment a deliquescent agent whereby to fix the expansion, and thereafter in uniting to opposite faces of the sheet other sheets which form onter plies of the board, substantially as described.

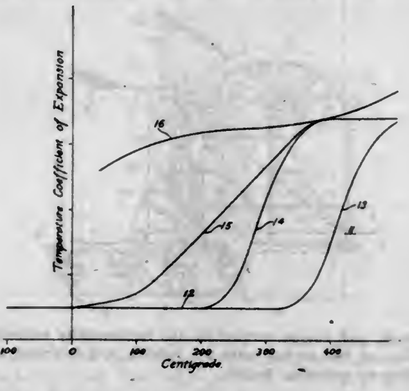
1,689,813. METAL WEATHER STRIP. JOSEPH E. BERGFALK and SVEN A. BERGFALK, New York, N. Y. Filed Oct. 9, 1925. Serial No. 61,426. 3 Claims. (Cl. 20—69.)



1. The combination with a window frame having sash grooves and a sash mounted within said grooves and having grooves at its opposite side edges of weather strips arranged within said grooves, each having a connection at one marginal edge to one side of one of said grooves and having the opposite edge free, the said strip being bent intermediate its edges to form a loop extending into said groove in the sash and having a space-spanning portion between said loop and said connected marginal edge and a contacting track-portion between said loop and the free edge, said free edge having a freely movable flange bent at a right angle to the body of the strip extending in a direction opposite to the said loop and in a plane parallel therewith, and means for resiliently forcing said contacting track portion into engagement with the edge of the sash.

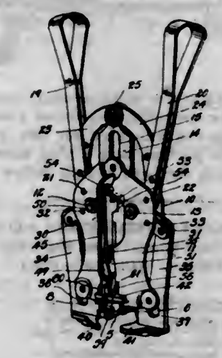
1,689,814. THERMOSTATIC ELEMENT. PORTER H. BRACE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 12, 1926. Serial No. 94,198. 6 Claims. (Cl. 297—15.)

1. A temperature-responsive device comprising metallic elements, one of said elements being an alloy of nickel having relatively high temperature coefficient of expansion, and the other of said elements being an alloy which



contains iron and nickel in the ratios of from 3 parts of iron to 1 part of nickel and cobalt in amounts varying from 1% to 20% of the alloy content.

1,689,815. CAN-CAPPING MACHINE. CHARLES A. BUNKER, Kansas City, Mo., assignor to H. P. Comstock, Kansas City, Mo. Filed Feb. 2, 1925. Serial No. 6,214. 8 Claims. (Cl. 226—81.)

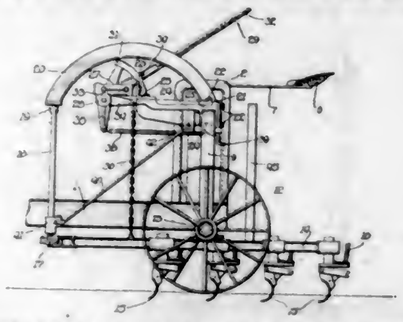


1. A can capping device comprising a pair of pivoted jaw arms, said arms having arcuate slots therein, jaws carried by the arms, supporting means for the arms, engaging said slots, a slide, means connecting the arms to the slide to actuate them into and out of can neck engaging position and a cap receiving means carried by the support.

1,689,816. AGRICULTURAL MACHINE. CECIL P. CAULKINS, New London, Conn., assignor to General Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 2, 1926. Serial No. 126,510. 5 Claims. (Cl. 97—233.)

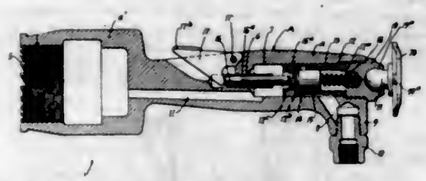
1. In combination, a relatively low narrow tractor frame, a narrow upright axle frame thereon, a single arched axle having a horizontally extending portion mounted in said axle frame and depending wheel carrying portions spaced from opposite sides of said tractor and axle frames and forming crop straddling arches at opposite sides thereof, a supporting arm carried by the horizontally extending portion of the axle between the depending end

thereof and the axle frame, an arched support carried by and depending from the free end of said arm, implement carrying beams pivoted on the lower ends of said arched



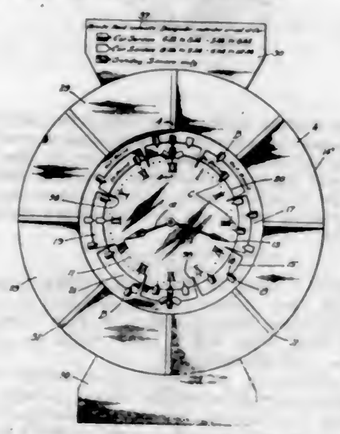
support, and means carried by the horizontally extending portion of the arched axle for raising and lowering said implement carrying beams.

1,689,817. TOOL HANDLE. ANTHONY H. COLLINS, New York, N. Y., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 26, 1925. Serial No. 58,728. 6 Claims. (Cl. 121—36.)



1. A control handle for fluid pressure tools having a hollow grip portion providing a bore for pressure fluid, a manually operable control valve for the pressure fluid within said hollow portion, and a plug member carrying a push plate closing the bore of said hollow portion.

1,689,818. SCHEDULE INDICATOR. JAMES BURGESS DARGAVEL, St. Paul, Minn. Filed Sept. 22, 1925. Serial No. 57,873. 4 Claims. (Cl. 116—129.)



1. A schedule indicator comprising a back having a circular portion, means carrying a series of graduations arranged in proximity to said portion and designating means detachably mounted upon said portion.

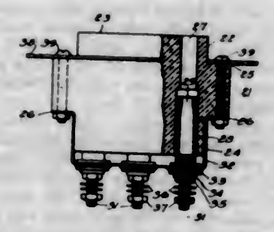
1,689,819. REMOVABLE CHEMICAL RECTIFIER. JAMES KNOX ELDERKIN, Montclair, N. J., assignor, by mesne assignments, to Forest Electric Corporation, Newark, N. J., a Corporation of New Jersey. Filed Nov. 10, 1925. Serial No. 68,181. 2 Claims. (Cl. 175—315.)



1. In a removable electrolytic rectifier the combination comprising a main body of insulating material having a plurality of cells therein, electrodes in the cells, the electrodes of one cell being connected in series with the electrodes of another cell, a top covering of insulating material over the cells and connections, terminals on the base of the main body and conductors leading from the said terminals to the electrodes.

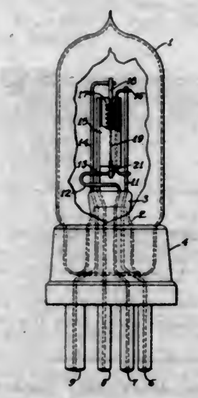
2. In a removable electrolytic rectifier the combination of a main body of insulating material having cells adapted to hold electrolyte and electrodes, an insulating cover for said cells secured against leakage, with ventilating apertures permitting the free escape of gases but not of liquids and an additional covering over the said apertures having openings to the atmosphere with flexible stoppers, said stoppers having slits normally closed and opening only to pressure.

1,689,820. SOCKET RECEPTACLE. FRANK F. FORSHEE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 9, 1927. Serial No. 218,437. 4 Claims. (Cl. 173—338.)



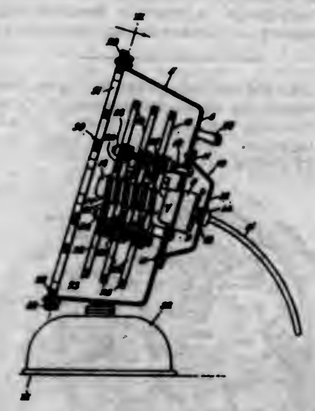
1. A socket receptacle comprising a flat refractory block having a plurality of longitudinally-extending openings therethrough and lateral shoulder portions at both front and rear thereof, a metal member, of U shape, having its end portions fitting against one set of shoulders and having its intermediate portion located in the plane of the block and adjacent to the rear end thereof, and contact sockets insulatedly mounted on the intermediate portion of the metal member of U-shape and extending into the openings in the refractory block.

1,689,821. NONMICROPHONIC TRIODE. HUBERT M. FREEMAN, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 29, 1924. Serial No. 702,715. 7 Claims. (Cl. 250—27.5.)



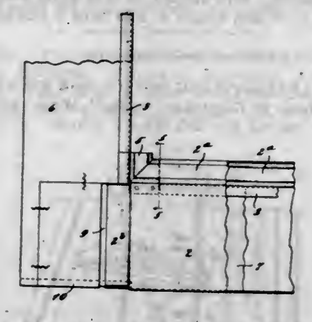
1. In combination, a press, a filamentary cathode and a pair of supporting wires sealed into said press, one of said wires being relatively stiff and the other of said wires being relatively flexible and curved to accentuate its springiness, said filamentary cathode being attached to said wires under a slight tension when cold and said flexible wire being adapted to take up only part of the expansion of said filament upon heating to an operative temperature.

1,689,822. ELECTRIC HEATER. GEORGE B. GALLUP, Bradenton, Fla., assignor to Leach-Gallup Manufacturing Company, Bradenton, Fla., a Corporation of Florida. Filed May 8, 1928. Serial No. 274,881. 4 Claims. (Cl. 219—34.)
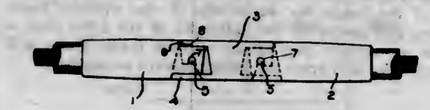


3. In an electric heater, a casing; an electrical heating element mounted in said casing; a plurality of axially spaced perforated metallic plates mounted in said casing concentric with said element and in close proximity thereto, adapted to readily transmit heat from said element to the surrounding atmosphere; and a perforated cover and guard plate secured to said casing in front of said heating element.

1,689,823. METAL DOOR AND THE LIKE. ALVIN C. GODDARD, Richmond Hill, N. Y. Filed Oct. 7, 1925. Serial No. 61,008. 7 Claims. (Cl. 20—35.)



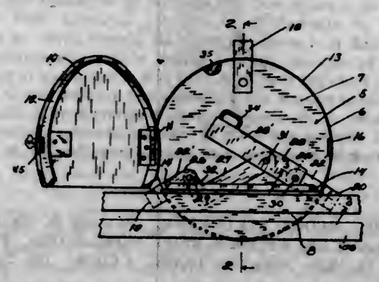
1. In a metal door, sheet metal U-shape stile and rail members joined together at their ends in overlapping relation and having their edge portions converging to form integral moldings terminating sufficiently short of the ends of the members to meet when the members are joined, and a corner reinforcing piece underlying the meeting ends of the moldings, and having portions thereof conforming in shape to said moldings whereby the corner piece reinforces the corner structure including the molding portions thereof.

1,689,824. ELECTRICAL CONNECTER. LEONARD A. GOELZ, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1926. Serial No. 135,840. 5 Claims. (Cl. 173—363.)



1. A connecter comprising two interchangeable members each of which has a tongue portion and is provided with a slot, a pin disposed in each slot, and a notch provided in each tongue portion for receiving the pin of the other member, whereby the tongue of each member engages the slot of the other member for preventing the separation of the members in a longitudinal or in a lateral direction.

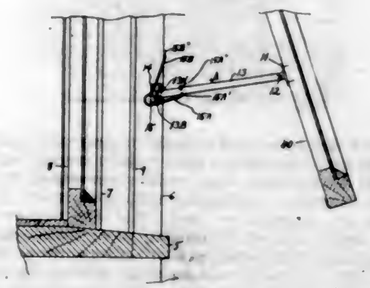
1,689,825. TIRE AND LUGGAGE CARRIER. ANGELO GRILLI, Milwaukee, Wis., assignor of one-half to Dan Livieri, Milwaukee, Wis. Filed Jan. 30, 1925. Serial No. 5,721. 5 Claims. (Cl. 224—29.)



1. In a device of the character described, the combination with a drum having a relatively fixed rim engaging support projecting from its periphery, of a second rim engag-

ing support projecting from the periphery of said drum and including a saddle and a pair of legs, one of said legs being connected with the drum and the other of said legs being radially adjustable with respect to said drum whereby to move one side of said saddle to and from a rim engaging position.

1,689,826. ANTIRATTLING DEVICE FOR STORM WINDOWS. JOHN H. GRININGER, St. Paul, Minn. Filed Feb. 20, 1928. Serial No. 255,757. 2 Claims. (Cl. 292—262.)



1. An anti-rattling device for a storm window hingedly suspended from its upper edge and having a brace bar pivotally connected to the inner side of the storm window and slidable through a bracket fixed in the window frame, said device comprising a helical coil spring, two arms formed integral with said coils and extending normally radially from said coil at obtuse angles to each other, means on the extremity of one arm to engage the upper edge portion of the brace bar outwardly of the window frame bracket, and means on the extremity of the other arm to engage an upright part of the window frame above said bracket when said arms are sprung toward each other.

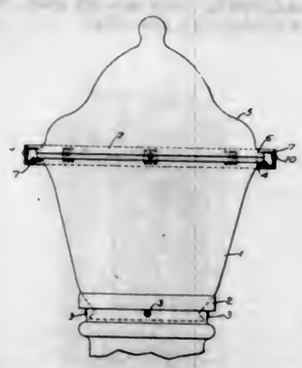
1,689,827. CHAIN HOOK. GEORGE W. GRUNER, Pinckneyville, Ill. Filed Jan. 30, 1928. Serial No. 250,358. 1 Claim. (Cl. 24—68.)



The combination with a chain tightener comprising a lever carried by a chain end and adapted to be passed through a link of another chain end for receiving said last named link in a recess adjacent its pivotal point, of eyes carried by opposite sides of a link, a pivot pin extending through said eyes and lever, said eyes terminating in members twisted around the link sides and terminating at opposite sides of the recess in arms registering with the recess and forming means for preventing excessive movement of the link in the recess and maintaining the link in the recess.

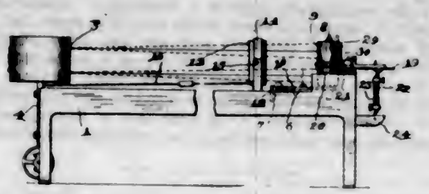
1,689,828. GLOBE STRUCTURE. FRANCIS R. HEALEY, Cincinnati, and WALTER E. BEATY, Norwood, Ohio. Filed Mar. 18, 1925. Serial No. 16,408. 1 Claim. (Cl. 240—100.)

A lamp housing comprising a globe having an outwardly and upwardly extending flange, a top for said globe having a ledge adapted to rest upon and to extend over said flange to protect the exterior of said globe from moisture, and a removable metal band for uniting said globe and said top provided with clips for engaging the globe and top,



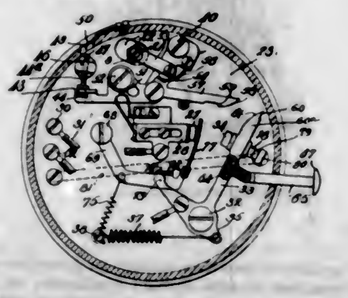
said clips having downwardly, outwardly extending portions for leading moisture away from the junction of top and globe.

1,689,829. SANDING MACHINE. NORMAN M. HEINTZ, Hespeler, Ontario, Canada. Filed July 27, 1925. Serial No. 46,447. 6 Claims. (Cl. 51—148.)



1. In sanding apparatus, the combination of a pair of spaced rotatably mounted belt-supporting members; an endless sanding belt carried by said members; means for causing a transverse movement of said belt as it travels around said members, comprising a third member around which the belt passes; a pivotally mounted support for said third member; and means for oscillating said support.

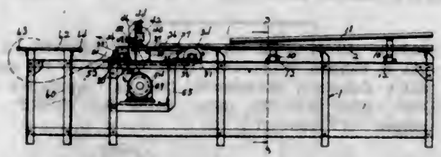
1,689,830. ALARM GAUGE. OTTO W. HEISE, Bridgeport, Conn., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 26, 1925. Serial No. 52,706. 13 Claims. (Cl. 200—81.)



1. A device of the class described comprising a circuit closing switch having relatively movable contacts, means tending to separate said contacts, means comprising a pivoted latch normally holding the contacts in engagement, means providing an adjustable fulcrum for the latch,

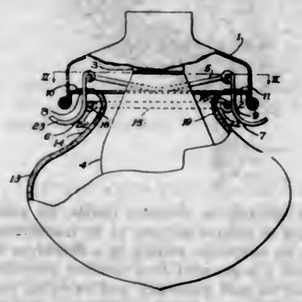
a pressure responsive element, and means connecting the pressure responsive element to the latch whereby to release the latch and to allow the contacts to separate at a predetermined pressure.

1,689,831. TIRE-BUILDING MACHINE. DANIEL E. HENNESSY, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 2, 1924. Serial No. 710,529. 8 Claims. (Cl. 154—9.)



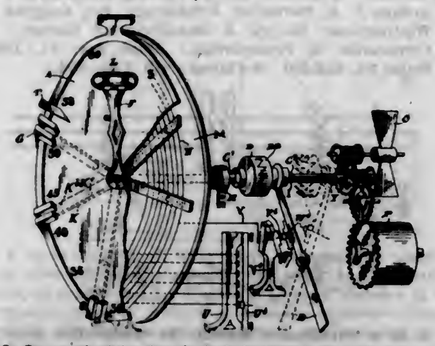
1. A device of the character described comprising relatively movable tables adapted to support strips of material in predetermined superposed relation and means to simultaneously draw said strips from said tables.

1,689,832. GLOBE HOLDER. HOWARD L. JOHNSTON, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 5, 1923. Serial No. 666,697. 6 Claims. (Cl. 240—132.)



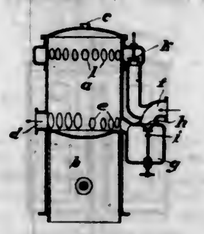
6. A globe holder comprising a base, a plurality of suspension members, a resilient equalizing spring cooperating with said base connecting and supporting said suspension members, means for securing a globe to said suspension members, said suspension members cooperating with said globe and spring whereby dust-proof engagement is made between the globe and base.

1,689,833. SIGNAL CLOCK. CHARLES KESSES, New York, N. Y. Filed Sept. 7, 1921. Serial No. 499,066. 4 Claims. (Cl. 200—37)



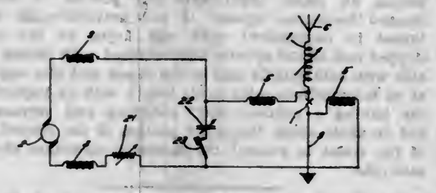
2. In an electric signal clock having in combination, an operating lever arranged for operating said clock, a dial having running numbers in a straight line, a series of switches, a rack adapted for carrying an arm with a bridging contact, means arranged for sliding said rack in a parallel direction to said running numbers and a gear wheel meshed to said rack secured to the main shaft of the clockwork to move through said clock mechanism said hand.

1,689,834. TWO-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE. HERMANN KREISSLE, Ansbach, Germany. Filed Aug. 9, 1926. Serial No. 128,248, and in Germany Sept. 5, 1925. 3 Claims. (Cl. 123—69.)



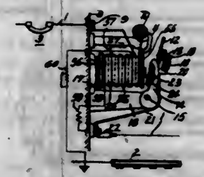
1. A two-cycle engine comprising a working cylinder having exhaust, scavenging and intake ports in the walls thereof; a chamber associated with said cylinder by means of the scavenging ports, said chamber being of a size to receive a sufficient amount of air to scavenge the cylinder; and an adjustable valve in said chamber for permitting the scavenging air to enter the chamber.

1,689,835. SIGNALING SYSTEM. LOUIS R. KRUMM, New York, N. Y. Filed Nov. 2, 1921. Serial No. 512,197. 4 Claims. (Cl. 250—12.)



3. In an arc transmitter, a source of current, an arc energized therefrom, means including blow-out magnets for causing said arc to generate high-frequency oscillations and means, energized by energy diverted from said blow-out magnets, for impressing a low-frequency modulation on said oscillations.

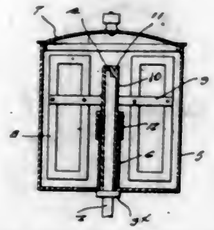
1,689,836. CIRCUIT INTERRUPTER. JOSEPH W. LEGG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 21, 1920. Serial No. 432,321. 2 Claims. (Cl. 175—294.)



1. In an automatic reclosing circuit interrupter system, the combination with a supply circuit, a load circuit, and a circuit interrupter therebetween, of means for controlling the operation of the circuit interrupter comprising a single magnetic circuit and a plurality of magnet coils for energizing said magnetic circuit, one of said coils being permanently connected in parallel relation to the supply circuit to be energized only in response to the potential thereof, another of said coils being permanently connected in series with the supply circuit to be energized only in response to the rate of current traversal betwee

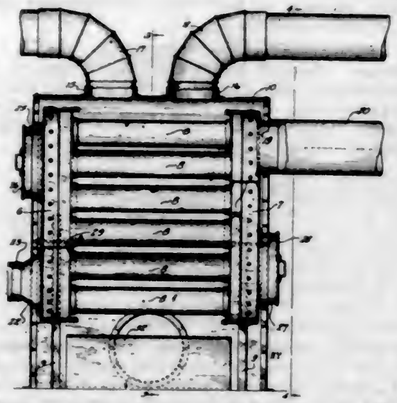
the supply circuit and the load circuit and so disposed as to energize the magnetic circuit differentially with respect to the first-mentioned coil, and a third one of said coils being connected in parallel relation to the circuit interrupter and so disposed as to energize the magnetic circuit differentially with respect to the first-mentioned coil when the circuit interrupter is open.

1,689,837. CREAM-SEPARATOR ATTACHMENT. GROVER W. LEWIS, Macomb, Ill. Filed Dec. 17, 1925. Serial No. 76,024. 1 Claim. (Cl. 259—108.)



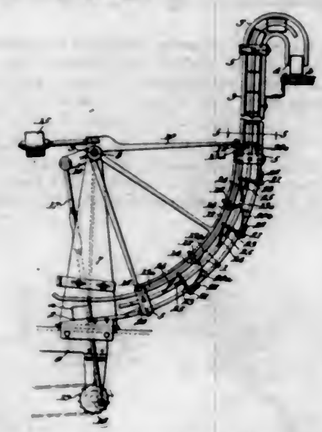
The combination of an upright spindle having an enlargement at an intermediate point of its length and also having a stepped upper end, a vessel surrounding the spindle and superposed on said enlargement and having a bottom and a central tubular portion of circular cross section extending upwardly from the bottom and surrounded and spaced from the spindle, and a rotatable sleeve arranged on and receiving the spindle and also arranged and turnable in the said upstanding tubular portion of the vessel and extending above said tubular portion and having an upper imperforate end portion of interior stepped formation opposed to and gravitationally maintained in engagement with and keyed to the upper stepped end of the spindle and equipped with blades movable with said spindle and in the vessel and also equipped at an intermediate point in its length with an imperforate cap having a pendant skirt receiving and surrounding and turnable about the upper portion of the central tube of the vessel to prevent the escape of substance through said tube.

1,689,838. HEATING DRUM. ROY L. MEYERS, Janesville, Wis. Filed June 3, 1927. Serial No. 196,313. 2 Claims. (Cl. 257—168.)



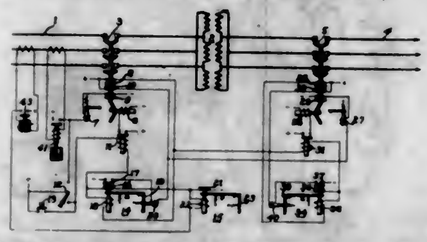
1. A heating device, comprising a casing, a pair of vertically disposed drums therewithin and spaced from the casing, a plurality of horizontally extending smoke tubes connecting said drums and communicating with the interiors thereof, a short pipe communicating with each drum and extending through the casing, said pipes affording access to the tubes for cleaning purposes, a removable cover for the outer end of each of said short pipes, a furnace smoke pipe entering the upper portion of one of the drums through the casing, the interior of said drum having a horizontal partition below said smoke pipe opening, a chimney smoke pipe entering the lower portion of the other drum through the casing, the interior of said drum having a horizontal partition above said smoke pipe opening, a fluid inlet pipe entering the lower portion of the casing, and a fluid outlet pipe extending from the upper portion of the casing.

1,689,839. ELEVATOR OR TRANSFER DEVICE. LUCIAN E. PARKER, Wadsworth, Ohio, assignor to The Ohio Match Company, Wadsworth, Ohio, a Corporation of Ohio. Filed Nov. 22, 1924. Serial No. 751,607. 3 Claims. (Cl. 198—27.)



1. In an elevator or transfer device, an arcuate guideway adapted to receive articles to be transferred and provided with an extension ending in a discharge opening for said articles, a segmental feed member pivotally mounted with respect to said guideway and carrying pusher members arranged for cooperation with the articles in said guideway to impart a step-by-step transfer movement thereto, means for imparting an oscillatory movement to said segmental member about its pivot, and means carried by said guideway for holding said articles in advanced position during their step-by-step movement upon oscillation of said segmental member, said articles as they are advanced in said guideway piling one behind the other and finally dropping one by one from said discharge end.

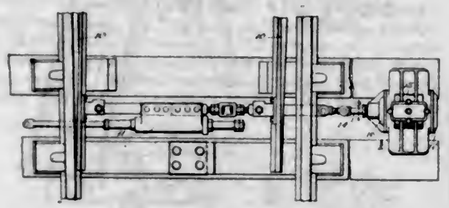
1,689,840. TRANSFORMER SWITCHING SYSTEM. ALFRED J. A. PETERSON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1923. Serial No. 633,670. 9 Claims. (Cl. 175—294.)



1. In a transmission system, the combination with an energy-translating apparatus, of two circuit-controlling devices in separate circuits for connecting the apparatus to

the system, and means independent of the system conductors whereby, upon the actuation of one circuit-controlling device, a similar operation is effected in the other device.

1,689,841. SHOCK ABSORBER. EDWARD W. POWELL, Chicago, Ill., assignor to Pettibone Mulliken Company, Chicago, Ill., a Corporation of New York. Filed May 8, 1926. Serial No. 107,671. 8 Claims. (Cl. 246—291.)

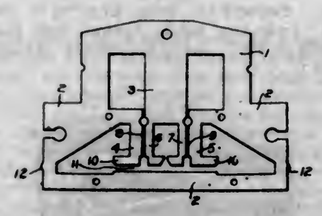


1. In a spring switch of the class described; spring means urging the switch points into normal position; and means for momentarily "locking" the switch points substantially in their compressed position, said means comprising, a cylinder, a piston in the cylinder, a connection between said piston and the switch points, fluid in said cylinder, means permitting substantially free movement of said piston in the movement of the switch points from normal to compressed position, and a by-pass groove in the cylinder wall permitting escape of fluid by the piston during movement of the switch points from compressed to normal position, said by-pass groove being smaller at the end of the cylinder corresponding to the beginning of said last mentioned movement.

1,689,842. IMPIGMENTED EXFOLIATED SHELL AND METHOD OF PRODUCING THE SAME. SIDNEY RAUSCHENBERG, San Diego, Calif. Filed May 17, 1924. Serial No. 714,149. 11 Claims. (Cl. 91—70.)

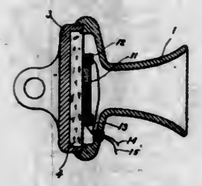
8. The herein described method of producing impigmented exfoliated shell, consisting in immersing exfoliated natural shell in flaked form in a chemical solution, then boiling and stirring the mixture, then adding a precipitate-forming chemical solution to the above mixture, and then boiling and stirring the whole.

1,689,843. MAGNET STRUCTURE. ARGYLE R. RUTTER, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 6, 1926. Serial No. 120,594. 4 Claims. (Cl. 171—264.)



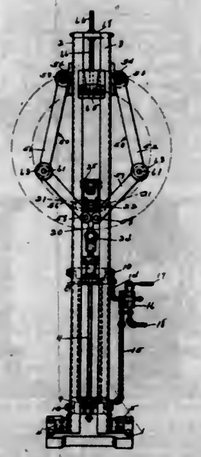
4. In an electrical instrument, a laminated magnet-core structure having substantially uniform flux characteristics comprising a plurality of laminæ disposed in alternately reversed faceto-face relation, whereby inequalities in the laminæ resulting from the manufacturing operations thereon are uniformly distributed with respect to a major axis of the core.

1,689,844. TELEPHONE TRANSMITTER. JOSEPH SLEPIAN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 13, 1924. Serial No. 698,879. 7 Claims. (Cl. 179—133.)



1. A microphone device comprising an elastic resistor which changes its specific resistance with pressure, said resistor being directly exposed to the atmosphere, whereby air pressure variations caused by sound may be translated into electric current variations without the necessity of employing a vibrating diaphragm.

1,689,845. DEVICE FOR INSERTING BAGS. GEORGE F. WIKLE, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 6, 1924. Serial No. 741,952. 13 Claims. (Cl. 18—2.)

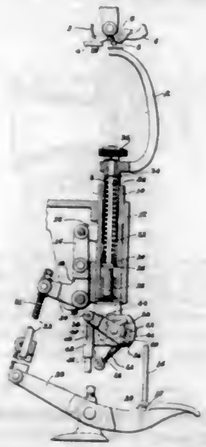


1. A device of the character described comprising means engaging the inner periphery of a bag at spaced points, means to fold a portion of the bag inwardly between the engaging means and means to separate the latter as the bag is folded therebetween.

1,689,846. SEWING MACHINE. REGINALD BOYD WOODCOCK, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 17, 1921, Serial No. 470,330, and in Great Britain May 31, 1920. 5 Claims. (Cl. 112—62.)

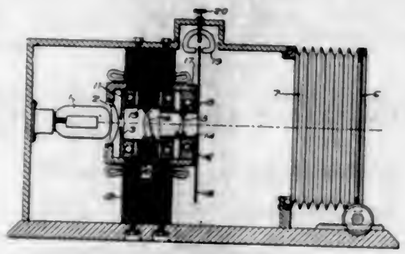
1. A machine for sewing an unlasted upper to the sole of a shoe having, in combination, stitch forming devices including a needle arranged to pierce the upper and sole in a plane parallel to the surface of the sole, a sole support

extending within the shoe, means for separating the sole support and stitch forming devices to facilitate the insertion and removal of work, and separate means under the



control of the operator for quickly moving the sole support during the sewing operation to compensate for abrupt variations in the thickness of the work.

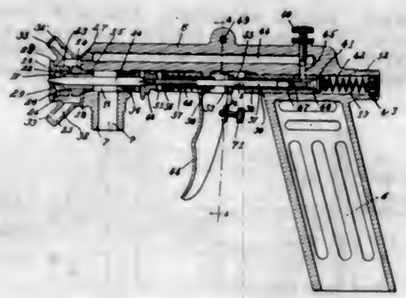
1,689,847. TELEVISION SYSTEM. VLADIMIR K. ZWORYKIN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 11, 1927. Serial No. 190,481. 15 Claims. (Cl. 178—6.)



1. In an optical system for transmission of pictures, two light-deflecting devices, means for rotating one of said devices, means for rotating the other of said devices at a different speed dependent upon the speed of the first and means for adjusting the difference.

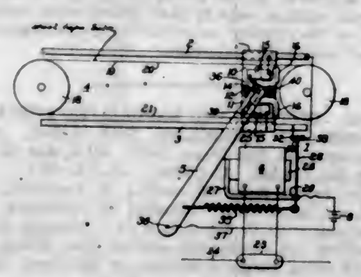
1,689,848. SPRAY GUN. SWAN F. ANDERSON, Rockford, Ill., assignor, by mesne assignments, to Peerless Pneumatic Systems, Inc., Chicago, Ill. Filed June 23, 1924. Serial No. 721,719. 14 Claims. (Cl. 91—45.)

2. A spray gun comprising, in combination, a body having a handle at one end and a nozzle-supporting head at the opposite end, said head having a material-supply passage and said handle having an air-supply passage in coaxial relation, a material-delivery nozzle on said head connected with said passage therein and having a hollow needle valve passing axially through and rearwardly beyond said passage, an air-delivery nozzle concentric with the material-delivery nozzle and receiving air pressure from said air-supply passage in the handle, a tubular valve stem slidable axially in said air-supply passage and having a valve for closing the passage and adapted to open it by rearward movement therein, the rear end of the hollow needle valve extending into the tubular valve stem and



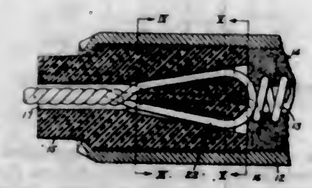
adapted to receive air pressure when the valve stem is moved rearwardly to an open position, and a trigger connected to the needle valve and valve stem for imparting opening movement thereto.

1,689,849. ELECTRICAL MEASURING INSTRUMENT. LOUIS M. ASPINWALL, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1926. Serial No. 127,717. 8 Claims. (Cl. 171—34.)



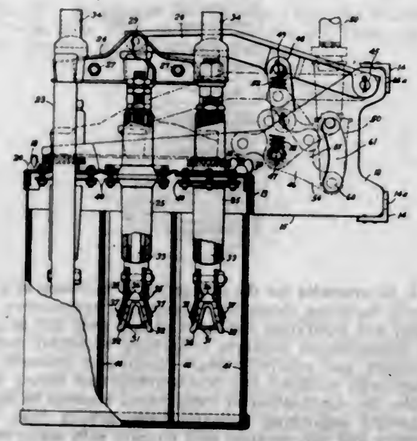
1. In an electrical measuring instrument, the combination with indicating means, of actuating means therefor comprising a continuously movable magnetizable element, and cooperating magnetic means for intermittently transmitting the movement of the element to the indicating means in response to variations in an electrical quantity.

1,689,850. TERMINAL FOR ELECTRIC HEATING UNITS. CHRISTIAN BEROH BACKER, New York, N. Y. Filed July 30, 1927. Serial No. 209,424. 5 Claims. (Cl. 201—67.)



1. In a terminal structure for a tubular heater comprising a tubular casing and a resistor therein, in combination, a plug of electric-insulating material insertable into the end of said casing, said plug having a coaxial opening extending partially therethrough, a plurality of angularly extending openings extending through the other portion of the plug and intersecting with said coaxial opening, one end of the resistor being inserted through one of the angularly-extending openings and the coaxial opening, and a pair of said angularly extending openings, and a terminal lead looped through said coaxial opening and twisted with the end of the said resistor.

1,689,851. CIRCUIT BREAKER. ANDREW H. BAKKEN, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed July 9, 1921, Serial No. 483,384. Divided and this application filed Nov. 26, 1924. Serial No. 752,355. 4 Claims. (Cl. 200—150.)



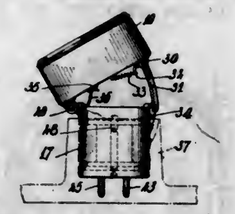
4. In a circuit interrupter, lifting rods having end portions whose cross-sectional areas increase outwardly along their axes and clamping means co-operating with the end portions.

1,689,852. ELECTRICAL SWITCH. HUGH W. BATCHELLER, Marion, Ind., assignor to Bojac Manufacturing Co., Inc., Winooski, Vt., a Corporation of Vermont. Filed Oct. 9, 1926. Serial No. 140,528. 2 Claims. (Cl. 200—77.)



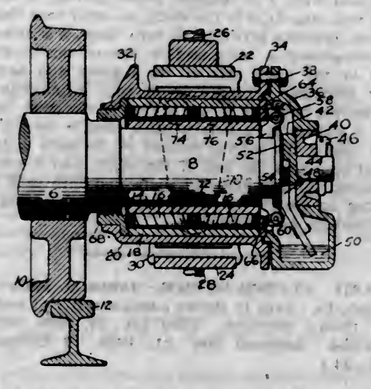
1. A switch comprising a holder including a body of insulating material, a pair of gap-separated terminals fixed to the holder, and insulated from each other by said body, a one-piece movable spherical gap closer of conducting material, the body being provided with means for guiding the closer toward and from the terminals, a stop fixed to and insulated by the body and arranged to limit the movement of the closer from the terminals, and a closer shifter comprising a pair of resilient jaws connected by a neck, and a push and pull member, fixed to and insulated from the neck and movable toward and from the terminals in a guide in the holder, the said jaws exerting a yielding pressure in opposite directions on the spherical periphery of the closer, the arrangement being such that when the shifter is moved in one direction, the jaws contract on the closer and press it against the terminals, and when the shifter is moved in the opposite direction, the jaws again contract on the closer and press it against the stop.

1,689,853. TUBE-SOCKET METER. WALTER E. BEEDE, Penacook, N. H. Filed Feb. 10, 1928. Serial No. 253,317. 4 Claims. (Cl. 171—95)



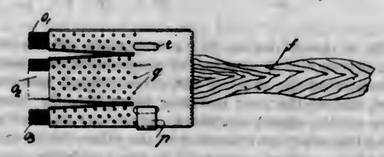
1. A radio tube socket meter, comprising a socket base arranged for engaging in a radio tube socket, an electrical meter pivotally attached on the top thereof at one side, and arranged for tilting into positions at angles to the socket base, and a means for holding the various tilted positions.

1,689,854. JOURNAL BOX. CHARLES W. BENICA, Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 9, 1926. Serial No. 114,854. 10 Claims. (Cl. 105—222.)



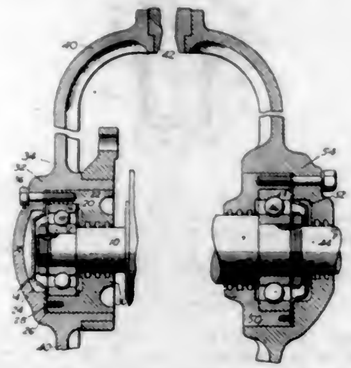
1. In a device of the character described, in combination, an axle, an axle box having a bearing for the axle, a frame, and a load carrying connection between the axle box and the frame and comprising a link having a single pivot pin connection to one of said members, said link being connected to the other of said members by a pair of spaced pivot pins and said other member having openings larger than the pins to allow lost motion between the link and either one of the spaced pins; substantially as described.

1,689,855. STRIPING BRUSH. PETER BREITENBACH, Bochum, Germany. Filed Aug. 19, 1927. Serial No. 214,137, and in Germany Nov. 16, 1925. 3 Claims. (Cl. 15—166.)



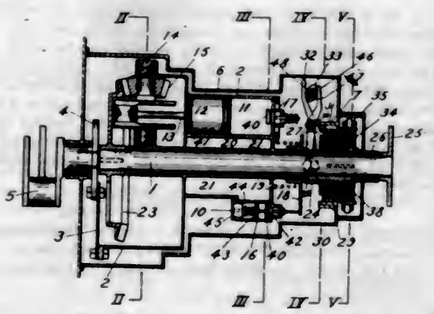
1. A striping brush having an exchangeable casing adapted to surround the brush and provided with means to divide the bristles thereof into a number of portions sharply divided from one another.

1,689,856. BEARING MOUNTING. RAYMOND L. BROWN, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed July 2, 1925. Serial No. 41,038. 3 Claims. (Cl. 308—189.)



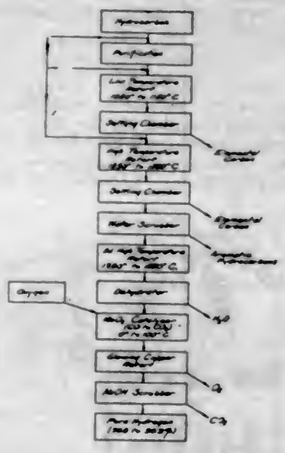
1. In a bearing mounting, a casing having a detachable end plate with a cylindrical recess therein, a shaft, an inner race ring fixed to the shaft, an outer race ring, antifriction elements between the race rings, a bearing housing comprising a main section closely surrounding the shaft at the inner side of the bearing and having its outer periphery arranged to fit said cylindrical recess, said section having a recess to receive the outer race ring with a sliding fit, a detachabable closure section at the outer side of the bearing secured to the main section and extending across the end of the shaft, and a screw bolt extending through the end plate and into said bearing housing to secure the latter rigidly in the end plate; substantially as described.

1,689,857. CLUTCH DEVICE. JAMES M. BROWN, Pittsburgh, Pa.; Jane D. Brown administratrix of said James M. Brown, deceased. Filed Jan. 11, 1923, Serial No. 611,954. Renewed Mar. 21, 1928. 7 Claims. (Cl. 74—34.)



1. In a clutch device, the combination with a driving and a driven clutch member, of cooperating gear members for connecting the driving and driven clutch members together, one of the gear members being directly connected to one of the clutch members, means for rotatably connecting the other gear member to the other clutch member, a cylinder, a piston connected to the rotatably connected gear member for controlling the operation of said rotatably connected gear member and means whereby during part of the intake stroke of the piston the cylinder is supplied with compressed air.

1,689,858. PROCESS FOR THE PRODUCTION OF HYDROGEN OF GREAT PURITY. ARTHUR W. BURWELL, Niagara Falls, N. Y., assignor to Alox Chemical Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1927. Serial No. 214,749. 3 Claims. (Cl. 23—210.)



1. In processes for the production of hydrogen of great purity involving thermally decomposing hydrocarbon material and separating elemental carbon from the mixture of decomposition products comprising elemental carbon, hydrogen and relatively small amounts of aromatic hydrocarbons, methane type hydrocarbons and carbon monoxide, the combination of steps which consists in simultaneously separating aromatic hydrocarbons from said mixture and impregnating said mixture with water vapor by contacting the same with water, converting the methane type hydrocarbons content of the resulting water-impregnated mixture into carbon monoxide by subjecting said mixture to a thermal decomposition treatment at a temperature of from about 1230° to about 1280° C., drying the resulting mixture, admixing with the dried mixture oxygen in amount in excess of that theoretically required for the conversion of the carbon monoxide content thereof to carbon dioxide and converting said carbon monoxide content to carbon dioxide by intimately contacting the free oxygen-containing mixture with a manganese dioxide catalytic mass at a temperature below 100° C., removing unreacted oxygen from the resulting mixture by contacting the same with glowing copper, and separating the carbon dioxide content of the resulting mixture consisting of hydrogen and carbon dioxide by contacting said resulting mixture with caustic alkali solution.

1,689,859. TAPE FASTENER. BRITTON E. BYRD, Gastonia, N. C., assignor to Mill Devices Company, Inc., Gastonia, N. C., a Corporation of North Carolina. Filed Apr. 6, 1928. Serial No. 267,897. 2 Claims. (Cl. 24—35.)



1. A belt fastener including a plate having a longitudinally extending slot through which the ends of the tape to be formed into a belt may be passed and lapped back upon the body of the belt, the ends of the plate of a length to enable them to be bent back upon the ends of the tape to clamp them to the plate body, said slot of a width substantially twice the thickness of the tape.

1,689,860. PROCESS OF PRODUCING PHTHALIC ANHYDRIDE. FRANK A. CANON and CHESTER E. ANDREWS, Pittsburgh, Pa., assignors to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Original application filed June 20, 1922, Serial No. 569,735. Divided and this application filed Nov. 7, 1925. Serial No. 67,685. 5 Claims. (Cl. 260—123.)

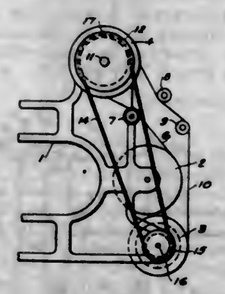
1. The process of converting naphthalene to phthalic anhydride, which consists in subjecting a mixture of naphthalene vapor and an oxygen-containing gas to a catalyst at a temperature ranging approximately between 400° C.—450°C., and maintaining said temperature by transmitting the excess heat generated to a composition of cadmium and mercury that will boil at said temperature and causing the composition to be boiled by said excess heat.

1,689,861. FLEXIBLE COUPLING. CHARLES HASKELL CLARK, New York, N. Y. Filed Apr. 30, 1925. Serial No. 27,010. 3 Claims. (Cl. 64—91.)



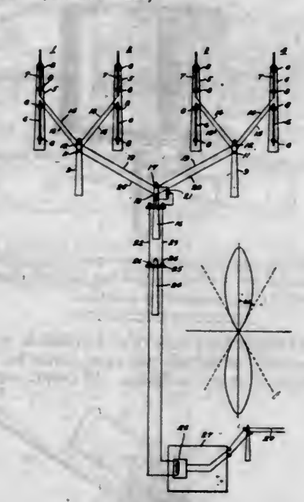
1. A coupling having hub members adapted to be suitably mounted upon shafts to be coupled, said members having radially extending projections, in combination with a radially adjustable floating endless band housing for connecting said projections together in an axial direction, said housing comprising a plurality of sections and means for adjustably connecting said sections together whereby said projections will be connected circumferentially, said adjustable connecting means permitting the housing as a whole to be radially expanded or contracted with relation to the axis of said hubs to control the degree of radial flexibility of the coupling as a unit, said housing having walls presented toward the respective projections of said hubs.

1,689,862. REROLL DEVICE. GEORGE A. COLLINS, Fresno, Calif., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 23, 1926. Serial No. 131,091. 10 Claims. (Cl. 242—55.)



7. The combination with a rotatable element and a flexible element co-operating therewith, of means for alternately positively interlocking said elements to move in unison and permitting relative movement of the elements comprising a projection on one of the elements for alternate indenting engagement and disengagement with the other.

1,689,863. DIRECTIVE ANTENNA SYSTEM. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 27, 1925. Serial No. 39,919. 3 Claims. (Cl. 250—11.)



3. A radio receiving arrangement, comprising a plurality of systems, each system comprising an aerial and an associated counterpoise, a plurality of pairs of bridle wires, the members of any one pair being connected to an aerial and its associated counterpoise, the bridle wires connected to aerials being connected together and thereby connecting conjugate points of the aerials, the bridle wires connected to counterpoises being connected together and thereby connecting conjugate points of the counterpoises and a tuning coil connected to the bridle wires.

1,689,864. POLISH. GEORGE W. DARLINTON, San Pedro, Calif. Filed Jan. 27, 1927. Serial No. 164,127. 8 Claims. (Cl. 134—24.)

1. A polish in the form of a jellified emulsion comprising a relatively large quantity of gasoline, a relatively small quantity of an essential oil, soap and water.

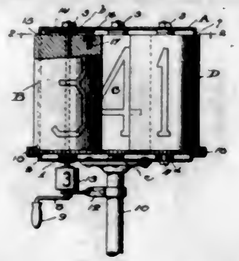
5. A polish in the form of a jellified emulsion in the proportions stated:

	Parts.
Gasoline	6
Eucalyptus oil	1
Aqueous solution of soap, prepared by 1¼ lbs. soap in 3 gals. water	1
Infusorial earth	1

1,689,865. GAME INDICATOR. HENRY FRANCIS DAVIS and JAMES DONALD REID, Honolulu, Territory of Hawaii. Filed Jan. 28, 1927. Serial No. 164,246. 6 Claims. (Cl. 40—68.)

4. A device of the character described comprising a casing having a plurality of openings all facing in different directions, a cylinder rotatively mounted in the casing adjacent each opening, said cylinders being parallel, and having their centers spaced to define a polygon, each cylinder being provided with a series of designating characters, a gear wheel carried by an end of each cylinder and in mesh with a similar gear carried by the adjacent cylinder, the gears having the same number of teeth whereby rotation of one cylinder will rotate all the cylinders in unison and to a like degree to display said characters through said openings, a shaft connected to one cylinder and extending

outside of the casing, a separate indicator mounted upon said shaft outside of said casing and rotative therewith, said indicator carrying a series of characters similar to



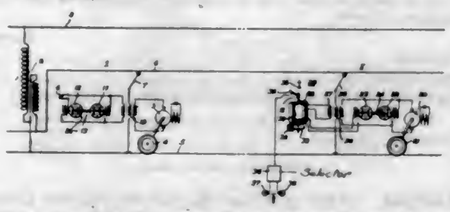
those carried by the cylinders, means for rotating said shaft, and means for resiliently locking the cylinder on said operating shaft in any operative position.

1,689,866. HAND SEED PLANTER. FREDERICK W. ERICKSON, Aurora, Ill. Filed Nov. 16, 1922, Serial No. 601,254. Renewed Apr. 2, 1928. 4 Claims. (Cl. 111—82.)



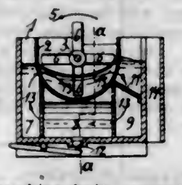
1. A seed planter comprising a lower plate having a depending combined furrow opener and seed delivery spout, an upper plate pivoted on the lower plate for transverse oscillatory movement, and a seed magazine on the upper plate, said two plates having coincident apertures that afford a port through which seed is discharged from the seed magazine into the combined furrow opener and seed delivery spout.

1,689,867. SIGNALING SYSTEM. ROBERT D. EVANS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 28, 1924. Serial No. 716,360. 1 Claim. (Cl. 177—352.)



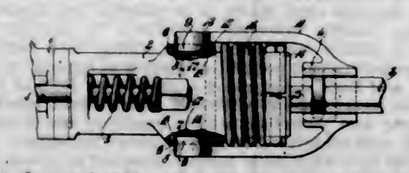
In an electrical system in which two separated vehicles derive their energy from a common trolley circuit supplied with alternating current of predetermined frequency, the combination with a signaling set on one vehicle consisting of a motor energized from the trolley and a generator drive thereby to develop an electromotive force of a frequency other than that of the system, means connecting the generator to the trolley to supply such different frequency thereto, means for controlling the generator, means on the other vehicle comprising an electro-responsive device having two windings, one of which is energized from the trolley and subjected to voltages of the system frequency and of the impressed frequency, means connected to the other winding to impress a voltage of frequency corresponding to that impressed upon the trolley by the signaling set, an auxiliary circuit and means operative in accordance with the frequencies impressed upon said windings for controlling said auxiliary circuit to effect a desired result.

1,689,868. MACHINE FOR WASHING FRUITS AND VEGETABLES. WILHELM FINK, Bonn-on-the-Rhine, Germany. Filed June 17, 1925, Serial No. 37,839, and in Germany Oct. 9, 1924. 1 Claim. (Cl. 146—197.)



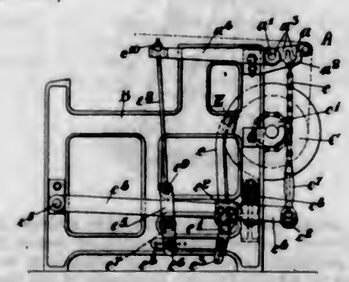
A machine for washing fruits, vegetables and the like, consisting of a tank adapted to contain washing fluid, sieve means and rotatable agitator means therein adapted to contain and agitate the objects to be washed mounted in the upper portion of said tank, vertical partitions parallel to axis of said rotatable agitator dividing the lower portion of said tank into compartments, said tank being provided with a passage permitting a flow of said washing fluid from one outermost compartment to the other and a sieve interposed in the path of fluid flow caused by the rotation of said rotatable agitator.

1,689,869. ROCK DRILL. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 7, 1926. Serial No. 127,856. 18 Claims. (Cl. 121—32.)



1. In a rock drill, a chuck housing having laterally projecting lugs presenting arcuate bearing surfaces, a retainer yoke pivotally mounted on said chuck housing and having cylindrical portions cooperating with said arcuate bearing surfaces, and means for resiliently maintaining said cylindrical portions in engagement with the bearing surfaces on said lugs comprising an annular member surrounding said chuck housing and engaging said cylindrical portions, a member clamped to said chuck housing and a spring interposed between said annular member and said clamp.

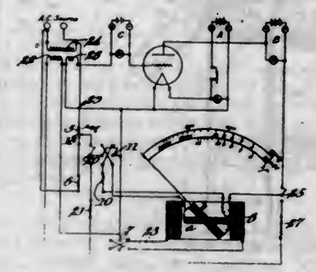
1,689,870. WEIGHTING MOTION OF LOOMS FOR WEAVING. WILLIAM GLEDHILL, Barkisland, near Halifax, England. Filed July 21, 1926, Serial No. 124,040, and in Great Britain July 30, 1925. 4 Claims. (Cl. 139—107.)



1. In a loom weighting motion, the combination with a warp beam, of two levers, a flexible element connecting the levers and having a frictional connection with the beam,

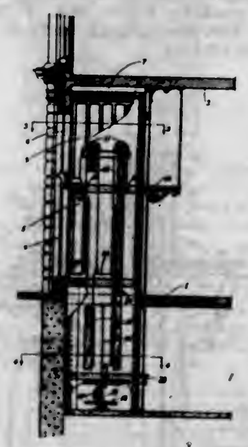
one lever having a warp engaging member, a link connection between said levers, and means controlled by the decrease in diameter of the beam for controlling said link connection to swing the levers relatively to one another and slacken said flexible element.

1,689,871. APPARATUS FOR TESTING VACUUM TUBES OF THE AUDION TYPE. WILLIAM NELSON GOODWIN, Jr., Newark, N. J. Filed May 18, 1926. Serial No. 109,999. 22 Claims. (Cl. 250—27.)



1. An electrical measuring instrument for vacuum tubes of the audion type comprising in combination, a ratio meter, means for connection to a source of alternating current, and means to impress on the ratio meter currents which are proportional to the electrical properties involved in the fundamental definition of a constant of the tube, whereby the value of the constant is directly indicated on a scale.

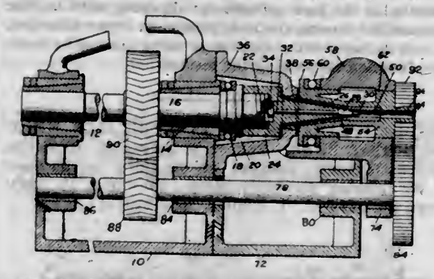
1,689,872. DISPLAY WINDOW. HAROLD C. HARLAN and WALTER J. ZIMMERMAN, Dayton, Ohio. Filed Mar. 10, 1921. Serial No. 451,368. 3 Claims. (Cl. 20—40.4.)



1. In a display window having a sight opening provided with a transparent closure, a closed housing arranged in the rear of said opening and extending above and below the same, a plurality of display compartments mounted for vertical movement in said housing, said compartments being normally closed on all sides except that side adjacent to said sight opening, and means to prevent the passage of dust about said compartments.

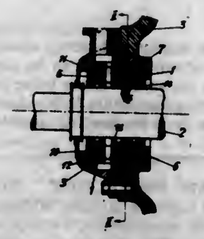
1,689,873. WINDING MACHINE. JACOB C. HENNY, East Orange, and RAYMOND H. CRAMER, Newark, N. J., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 3, 1926. Serial No. 120,469. 18 Claims. (Cl. 153—64.)

1. In a machine of the character described, an inner cone member having an external conical face, an outer cone member having an internal conical face surrounding the inner conical face, and means for causing a strip of material



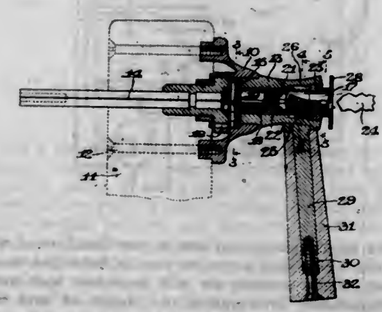
to be fed spirally between and in contact with said conical faces to form a coil of gradually decreasing diameter; substantially as described.

1,689,874. STUFFING BOX FOR SHAFTS AND THE LIKE. ASMUS JABS, Zurich, Switzerland. Filed Aug. 29, 1924, Serial No. 734,910, and in Switzerland Sept. 3, 1923. 2 Claims. (Cl. 286—9.)



1. In a packing for rotating machine parts comprising at least one ring having radially arranged chambers, a packing element in each chamber, each element smaller than the chamber and together with the walls of the chamber forming a space to be filled with fluid of high pressure leaking to said space between the front face of said element and the adjacent chamber wall, means to simultaneously throttle and supply leakage fluid of medium relative pressure from said space to the packing face of said element and means to supply a portion of the leakage fluid passing into said chamber to the opposite parallel face of said element.

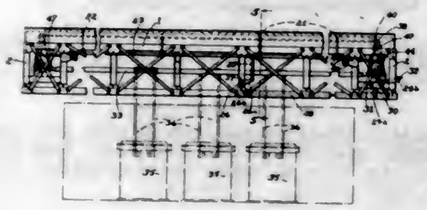
1,689,875. HANDLE LOCK. EDWARD N. JACOBI, Milwaukee, Wis., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 28, 1921. Serial No. 465,166. 5 Claims. (Cl. 70—91.)



1. A movably mounted member, a lock cylinder mounted to turn in the member to lock the handle when turned in one direction and to unock it when turned in the other di-

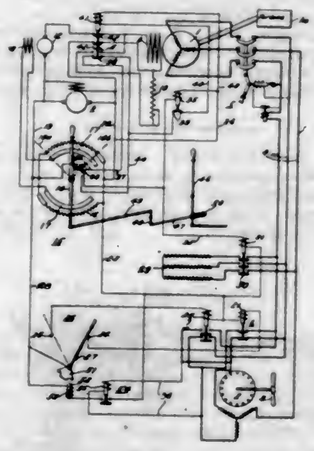
rection, means for locking the lock cylinder against turning in the direction for unlocking the member, and a removable key fitting in the lock cylinder for disabling said locking means and for turning the lock cylinder in either direction, said lock cylinder being capable of being turned by hand in the direction for locking the member.

1,689,876. APPARATUS FOR ELECTRICALLY HEATING METAL BARS. ERNEST S. JEFFERIES, Hamilton, Ontario, Canada, assignor of one-third to Ebenezer A. W. Jefferies, Worcester, Mass. Filed Dec. 19, 1921. Serial No. 523,502. 17 Claims. (Cl. 219—11.)



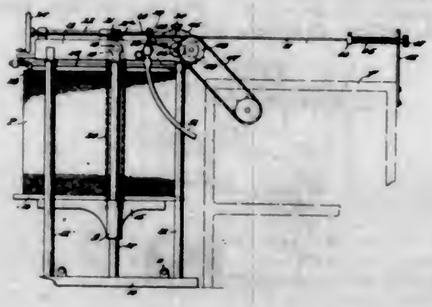
15. In an electric heater, a heating chamber for long bars and a heating circuit adapted to be completed by a bar in said chamber, the said chamber being so constructed as to enclose the bar and maintain it in a heated condition following its removal from the heating circuit.

1,689,877. MARINE PROPULSION. GUSTAF ADOLF JUHLIN, Sale, and LEONARD MILLER, Whitefield, England, assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 26, 1921, Serial No. 448,275, and in Great Britain Mar. 11, 1920. 5 Claims. (Cl. 172—8.)



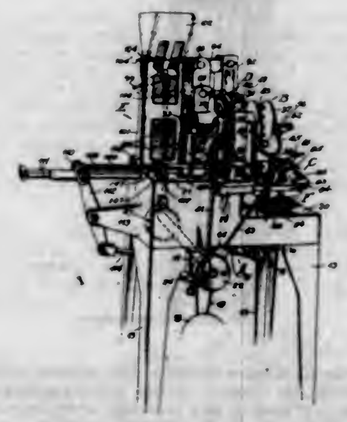
1. In a marine propulsion system, the combination with an alternating-current generator and an induction motor, of a field-magnet winding for said generator, and means for automatically interrupting the circuit of said field winding when the voltage of said generator has been reduced to a predetermined value and for simultaneously effecting dynamic braking of said generator.

1,689,878. SHEET-FEEDING DEVICE. WILLIAM M. KELLY, Westfield, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Dec. 27, 1922, Serial No. 609,320. Divided and this application filed Apr. 15, 1927. Serial No. 184,118. 8 Claims. (Cl. 271—47.)



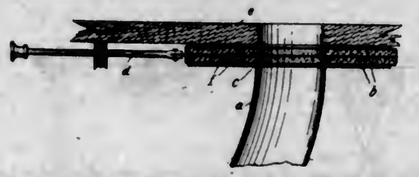
1. In a device of the character described in combination, a pneumatic sheet forwarding means including a valve, means to open and close said valve during each cycle of operations, and manual means operable from a remote point, to maintain said valve open and thereby render the forwarding means inoperative.

1,689,879. MACHINE RELATING TO THE PRODUCTION OF CANDY. RAY W. KROUT, Newark, N. J., assignor, by mesne assignments, to Racine Confectioners' Machinery Company, Racine, Wis., a Corporation of Wisconsin. Filed Dec. 22, 1922. Serial No. 608,431. 15 Claims. (Cl. 107—8.)



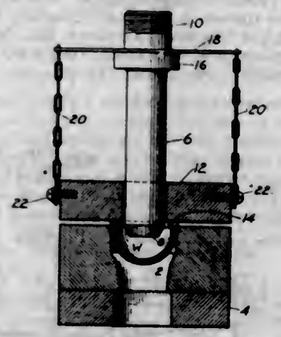
15. In a lollypop machine, a turntable having a plurality of mold cavities and stick-receiving grooves disposed radial of said turntable and communicating with said cavities respectively, a plunger adapted to cooperate with said cavities successively, means for rotating said turntable to bring said cavities successively into position to cooperate with said plunger, a stationary member having a stick groove therein into alinement with which the grooves in the turntable are brought successively, means for feeding sticks one by one into said stationary groove, and a plunger adapted to move a stick endwise from the stationary groove into an alined groove in the turntable.

1,689,880. SOUND-REPRODUCING INSTRUMENT. HEINRICH JOHANNES KÜCHENMEISTER, Berlin, Germany. Filed Sept. 24, 1926, Serial No. 137,591, and in Germany Oct. 2, 1925. 4 Claims. (Cl. 181—27.)



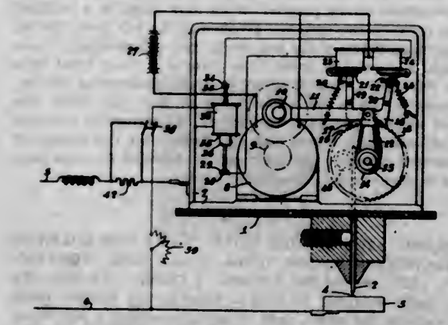
1. The combination with a sound reproducing instrument having a sound conduit, of a sound damper projecting into said conduit, said damper comprising perforated metal plates, apertured damping material between the plates, and tongues on the plates capable of being bent into engagement with portions of the wall of the aperture in the damping material.

1,689,881. WORK-LOCATING APPARATUS. CHARLES W. LECK, Newark, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 16, 1924. Serial No. 713,742. 4 Claims. (Cl. 113—49.)



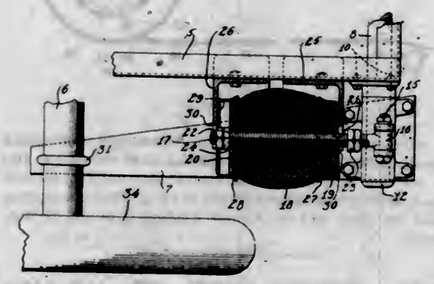
1. In apparatus for locating a curved piece of work in a die, a plunger, a die to receive the piece of work, a work locating plate slidable on the plunger, and a flexible connection between the plate and the plunger; substantially as described.

1,689,882. AUTOMATIC WELDING APPARATUS. ALLIS M. MACFARLAND, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 18, 1926. Serial No. 109,853. 13 Claims. (Cl. 219—8.)



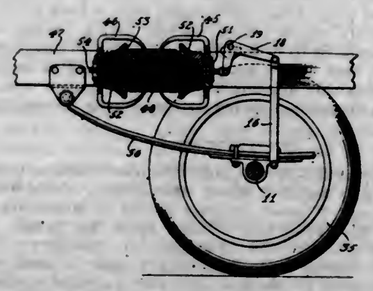
1. An electric arc device comprising a consumable electrode, a continuously operating reciprocating power mechanism, a feeding roller in engagement with said electrode, a ratchet mechanism associated with said feeding roller, a pair of oppositely directed pawls secured to said reciprocating mechanism and yieldably engaging said ratchet mechanism, and electro-responsive means for disengaging but one of the respective pawls at a time from said ratchet mechanism in accordance with the condition of the arc.

1,689,883. VEHICLE SUSPENSION. HENRY G. MCCOMB, New York, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio, a Corporation of New Jersey. Filed Mar. 11, 1926. Serial No. 93,875. 6 Claims. (Cl. 267—21.)



1. A vehicle suspension unit comprising a substantially rigid lever, a block of rubber having an orifice therethrough, means for supporting said block, a bolt connected to said lever and extending therefrom through said block in said orifice, and nuts threaded on said bolt on opposite sides of said block causing said block to be compressed when said bolt is moved longitudinally of said orifice in either direction beyond the normal position by movement of said lever.

1,689,884. SHOCK ABSORBER. HENRY G. MCCOMB, New York, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio, a Corporation of New Jersey. Filed Mar. 11, 1926. Serial No. 93,876. 2 Claims. (Cl. 267—21.)



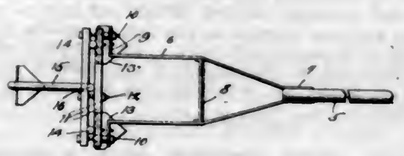
1. In a shock absorber, cup shaped members oppositely disposed, tubular projections on said cup shaped members, supporting means in which said projections slide, a block of resilient material having an orifice therethrough, said block extending between said members, a bolt extending through said orifice, and nuts on said bolt on opposite sides of said block, the nut on one side of said block acting to compress said block into the member on the opposite side thereof as said bolt is drawn toward this member, and a nut on the opposite side of the block acting to compress the block into the other member when said bolt is drawn in the opposite direction.

1,689,885. TRACTION ATTACHMENT FOR AUTOMOBILES. WILLIAM ROBERT MCLEAN, Lower Napan, New Brunswick, Canada, assignor of one-half to Thomas Alexander McLean, Lower Napan, New Brunswick, Canada. Filed Mar. 1, 1928. Serial No. 258,283. 3 Claims. (Cl. 238—14.)



1. A traction attachment for an automobile, comprising a shackle having a metal plate curved to fit across the tire of a traction wheel, securing means associated with said plate, a flexible element connected to the plate for wrapping around the tire, and an anchor connected to the flexible element.

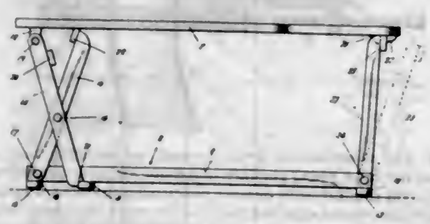
1,689,886. COMBINED SHOVEL, HOE, AND RAKE. ADOLF J. MEENTS, Albert City, Iowa. Filed Nov. 11, 1927. Serial No. 232,639. 2 Claims. (Cl. 97—58.)



1. A garden implement including a handle, an extension at one end of the handle, the extension embodying a pair of spaced bars having right angled ends, a head including transversely disposed bars, shovels having shanks, said shanks adapted to be positioned between the transversely disposed bars of the head, and bolts extending through the transversely disposed bars and right angled ends for securing the shanks between the transversely disposed bars.

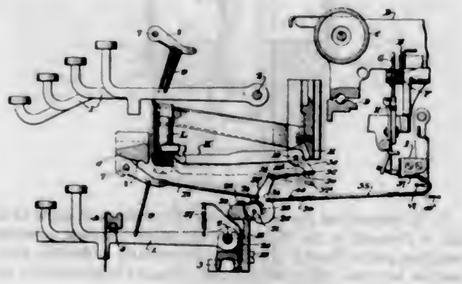
1,689,887. IRONING TABLE. WALTER C. MOORS, Owensboro, Ky.; Walter Y. Moors, administrator of said Walter C. Moors, deceased, assignor to Sue Y. Moors, Owensboro, Ky. Filed Mar. 3, 1925, Serial No. 12,936. Renewed Mar. 26, 1928. 2 Claims. (Cl. 68—10.)

1. An ironing table comprising a base, a board, supporting means for one end portion of the board connected with the base and foldable adjacent to the base, other supporting means hingedly mounted on the base to be disposed under the other end portion of the board, the first named supporting means having a hinge connection with the board to enable the board to be swung upwardly and also having a portion between said hinge connection and secondnamed supporting means on which the board is seatable to support the board even though the secondnamed supporting means is disengaged from the board, the secondnamed supporting means having a cross bar at its upper end, and a pair of spaced transverse cleats secured to the bottom surface of the board to receive said cross bar between them and having their opposite sides bevelled to enable the cross bar to pass readily under either cleat to a position between the cleats, the secondnamed supporting means being free to swing either outwardly beyond the corresponding end of the board or inwardly adjacent to



the base under the board when said cleats are disengaged from said cross bar, the board when swung upwardly on the hinge connection being removable from said portion of the firstnamed supporting means and from said cross bar.

1,689,888. TYPEWRITING MACHINE. LEWIS C. MYERS, Freeport, and GEORGE F. HANDLEY, Glendale, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 16, 1926. Serial No. 135,904. 20 Claims. (Cl. 197—30.)



16 In a typewriting machine having the usual key board and a shifting type segment with type bars pivotally mounted therein, and in which the key levers are pivoted in front of the type bar pivots; connections between the key levers and the type bars which comprise a series of intermediate levers pivoted on an axis lying in a vertical plane between the type bar pivots and the key lever pivots, connections between the key levers and intermediate levers including a series of front links pivoted at their front ends to a fixed part, and a series of links connecting the intermediate levers with the heels of the type bars, the pivots of the type bars, the points of connection between the intermediate levers and the links, and the points of connection between the links and the heels of the type bars lying in arcs of three concentric circles.

1,689,889. ADJUSTABLE HOSE CLAMP FOR MILKING MACHINES. ROLAND NUNES, Corona, Calif. Filed Feb. 24, 1927. Serial No. 170,605. 1 Claim. (Cl. 251—5.)

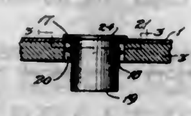
A clamp adapted to hold a plurality of flexible tubes and deform the same, said clamp comprising a flat sheet of material bent upon itself to form substantially parallel arms normally tending to be repelled, the outer ends of said arms being in the form of a serpentine and providing

troughs and crests, the troughs of one of said arms being closer together than the troughs of the other of said arms, and a collar slidable on said member adapted to force



said arms towards each other, and an outwardly sprung portion on said member adjacent its bend adapted to prevent said collar from being removed.

1,689,890. DESK COVER. SAMUEL J. ROBERTS, Scranton, Pa. Filed Nov. 17, 1927. Serial No. 233,988. 4 Claims. (Cl. 45—68.)



1. A desk having a wooden top provided with an ink-well aperture, an envelope covering said top and slidably mounted thereon and having an aperture registering with said ink-well aperture, and a cylindrical locking member seated in said apertures and having a flange engaging the top of said envelope and having laterally projecting prongs embedded in said desk top to lock the envelope to said desk top.

1,689,891. PROCESS OF PRODUCING CALCIUM ALUMINATE CEMENT. EMILE MARCEL ROCHE, Castelnau-le-Lez, France, assignor to Urbain Bellony Voisin, Cette, France. Filed Dec. 4, 1924, Serial No. 754,003, and in France May 6, 1924. 4 Claims. (Cl. 106—25.)

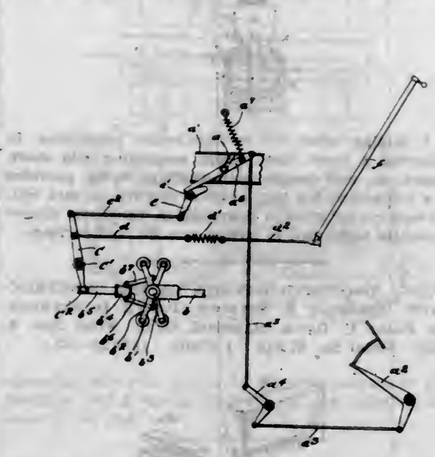
1. A process for the manufacture of an aluminous cement, comprising, burning a mixture of bauxite and a calcareous material at a temperature of about 900 to 1000 degrees centigrade, during a long period.

1,689,892. WRINKLING FINISH. FRANK BRIAN ROOT, Newark, N. J., assignor to Flood & Conklin, Newark, N. J., a Corporation of New Jersey. Filed July 13, 1928. Serial No. 292,883. 7 Claims. (Cl. 134—26.)



1. An improved varnish or enamel composition for producing wrinkled finishes comprising China wood oil and a wrinkle finish resin in proportions not less than about seven and not more than about seventeen gallons of oil per hundred pounds of the resin, at least the major portion of said oil being pre-oxidized by blowing, a drier and a thinner.

1,689,893. INTERNAL-COMBUSTION ENGINE. FREDERICK HENRY ROYCE, West Wittering, near Chichester, England, assignor to Rolls-Royce Limited, Derby, England. Filed July 29, 1925, Serial No. 46,836, and in Great Britain Aug. 6, 1924. 4 Claims. (Cl. 264—3.)



1. In a motor vehicle, an engine having a butterfly throttle valve rotatable therein, a lever fixed centrally to said valve at the pivot axis thereof, a spring connected at one end to one arm of said lever and at its other end to a fixed part of the vehicle to maintain said valve normally closed, manually operated means connected to said arm to rotate said valve against the tension of said spring, a second lever pivoted about a fixed axis on said vehicle and having one arm shaped to provide a cam face in contact with the other arm of the first named lever, a governor rotatable by said engine, and means connecting said governor to the other arm of the second lever to control the operation thereof, said cam face being shaped to provide the greater mechanical advantages at small openings of the valve.

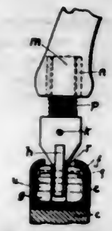
1,689,894. METHOD OF SPINNING ARTIFICIAL FILAMENTS. RUDOLF SAJITZ and FRIEDRICH POSPIECH, Dresden, Germany, assignors to Chemische Fabrik Pott & Co., Dresden-N., Germany. Filed June 14, 1926, Serial No. 116,012, and in Germany June 17, 1925. 4 Claims. (Cl. 18—54.)

1. The process of improving the spinning qualities of cellulose-solutions, which consists in treating such solutions with precipitating agents in the presence of naphthalene-sulphonic compounds, containing substituted alkyl-radicals and several sulpho-substitution groups in the ring.

1,689,895. METHOD OF SPINNING ARTIFICIAL SILK. HERMANN SCHMIDT, Wiesdorf-on-the-Rhine, and EMIL HUBERT, Elberfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Apr. 4, 1927, Serial No. 180,994, and in Germany June 11, 1926. 4 Claims. (Cl. 18—54.)

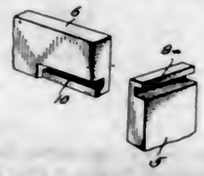
1. Process for the manufacture of artificial silk from a cuprammonium cellulose solution which comprises spinning the solution into an aqueous precipitating bath containing dissolved carbon dioxide.

1,689,896. FOLDING HOOD FOR CARRIAGE BODIES. XAVER SEITZ, Emmishofen, Switzerland. Filed Apr. 23, 1927, Serial No. 186,134, and in Switzerland Apr. 28, 1926. 3 Claims. (Cl. 296—109.)



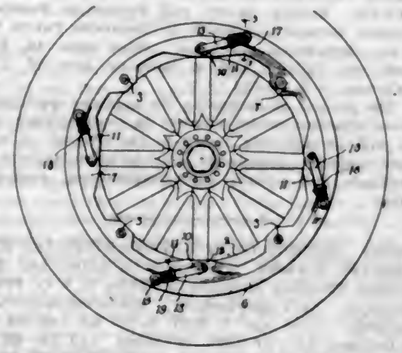
1. A folding hood for carriage-bodies comprising in combination a cover sheet, hoops supporting said sheet, carriages on said hoops, each carriage being provided with a screw-threaded bolt, a sleeve screwed on said bolt, said hoops having bores in their ends in which said sleeves are mounted and a rail to form a race for said carriage.

1,689,897. DOOR AND WINDOW CASING CONSTRUCTION. CLARENCE E. SEYMOUR, JOSEPH D. SEYMOUR, and PEARL C. DAVIS, Mansfield, Ohio. Filed Nov. 6, 1925. Serial No. 67,313. 1 Claim. (Cl. 20—92.)



In a joint for connecting the vertical and horizontal sections of a frame, the horizontal section having a rabbet extending from one end and disposed adjacent to the lower edge thereof said rabbet defining a rib and shoulder at one end of the rib, the rib being of a length of less than the length of the shoulder section, the vertical section having a rabbet formed across one end thereof defining a rib to be fitted in the rabbet of the shoulder section, the ribs adapted to interlock to secure the vertical and horizontal sections together.

1,689,898. VEHICLE TIRE RIM. JOEL SMITH, Jr., Byron, Okla. Filed June 13, 1927. Serial No. 198,602. 1 Claim. (Cl. 301—35.)

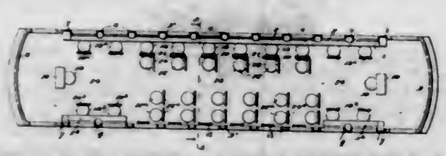


A securing device for a removable flange of a vehicle wheel rim, comprising levers pivotally connected to the rim, pins carried by the flange, links having one of their ends pivotally connected to the levers, the other ends of the links having openings therein for pivotally and detachably engaging the pins, and heads carried by the flange and movable into and out of locking engagement with the rim upon actuation of the levers.

1,689,899. SOLDERING. HENRY C. P. WEBER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,217. 7 Claims. (Cl. 148—26.)

7. A solid fusible composition for soldering metals comprising a plurality of inorganic metallic halides to which ammonium chloride has been added to control the fusion temperature of the composition so that the metal halide will fuse below the melting point of the metal to be soldered, said metal halides being reduced to the metallic state by the metal to be soldered.

1,689,900. BUFFET OR BREAKFAST CAR. INEZ WILLIAMS, Washington, D. C. Filed June 28, 1928. Serial No. 288,893. 5 Claims. (Cl. 105—327.)



1. A breakfast car comprising, a shelf adjacent to one side wall thereof and extending lengthwise thereof, a row of chairs permanently facing and extending under said shelf dispensing means arranged above said shelf and at convenient points lengthwise thereof with respect to the respective chairs of said row of chairs, a corresponding row of chairs arranged in close proximity to the chairs of the first row and facing at right angles thereto, the corresponding chairs of the said rows being arranged in pairs in a direction at right angles to the longitudinal axis of the car, said pairs being spaced from each other as usual lengthwise of the car, in combination with a plurality of pairs of chairs disposed on the opposite side of the car, the chairs of each of said pairs being adapted to face endwise of the car, the pairs of chairs on one side of the car being staggered with relation to the pairs of chairs on the other side of the car, whereby the central aisle of the car may be narrower than usual to compensate for the space taken in a transverse direction by said shelf while permitting free passage of the passengers lengthwise of the car.

1,689,901. PROCESS TO DETERMINE THE ALCOHOL AND THE COLOR IN ALCOHOLIC LIQUIDS. JOHN F. WILLIAMS, Buffalo, N. Y., assignor of one-third to Carroll J. Roberts and one-fifteenth to Lucian C. Jackson, Buffalo, N. Y. Filed July 30, 1926. Serial No. 125,935. 9 Claims. (Cl. 23—230.)

9. A process for the purpose set forth, which consists of introducing a reagent having an amyl alcohol, a hydrocarbon of the aromatic series and an acid into an alcoholic liquid.

1,689,902. FORMULA FOR TEST REAGENTS TO DETERMINE THE ALCOHOL AND THE COLOR IN ALCOHOLIC LIQUIDS. JOHN F. WILLIAMS, Buffalo, N. Y., assignor of one-third to Carroll J. Roberts and one-fifteenth to Lucian C. Jackson, Buffalo, N. Y. Filed Aug. 2, 1926. Serial No. 126,738. 12 Claims. (Cl. 23—5.)

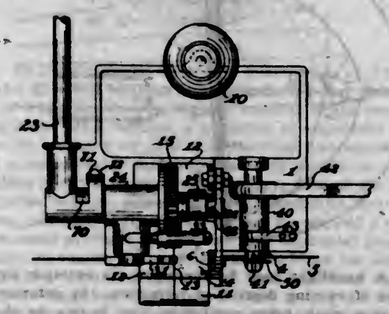
8. A test reagent for alcoholic liquids for the purpose set forth, including an amyl alcohol and a hydrocarbon of the aromatic series.

1,689,903. SNUBBER. SOLOMON WISE, Cleveland, Ohio. Filed Dec. 3, 1923. Serial No. 678,274. 16 Claims. (Cl. 267—9.)



1. A device of the character described, comprising telescoping members adapted for attachment to the axle and body frame respectively of a vehicle or the like, a stem carried by one of said members, means adapted for frictional binding engagement with the other of said members, and wedge means separate from the stem for automatically effecting operation of said frictional means so as to prevent rebound of the vehicle body.

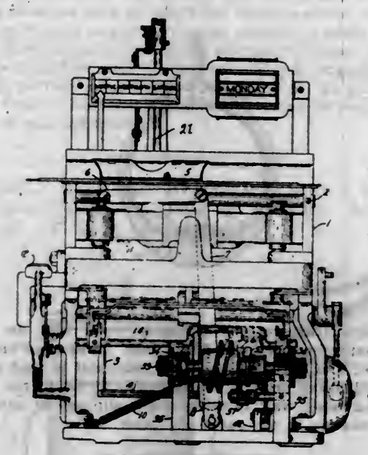
1,689,904. BOX-STRAPPING TOOL. GEORGE WOOD, Seattle, Wash., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Jan. 22, 1920. Serial No. 353,309. 13 Claims. (Cl. 140—93.)



1. A wire hoop forming device comprising a wire end clamp, a bar alongside of said wire clamp having a wire receiving notch adapted to prevent two wires placed therein from twisting, a like holding bar separated from the first and also forming one blade of a wire cutter, a complemental wire cutting blade having a cutting edge adapted to engage and cut only one of two wires placed in the notch of the holding bar, and a twister engaging the wires between said holding bars.

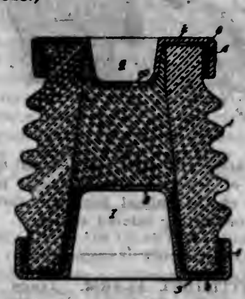
1,689,905. TIME RECORDER. JAMES W. YATES, Cincinnati, Ohio, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 3, 1923. Serial No. 610,521. 6 Claims. (Cl. 234—48.)

1. A device for shifting a card tray in time recorders laterally for day to day changes in position comprising a lever connected at one end to the card tray, and at the other to a fixed point, a projection on the lever, a spiral cam adapted to receive said projection and means for



operating said cam driven by the time movement of the recorder, and a spring resisting the cam impelled movement of the tray.

1,689,906. INSULATOR. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 23, 1920. Serial No. 368,138. 8 Claims. (Cl. 173—318.)



1. An insulator unit comprising a dielectric column and metal terminal members therefor, one of which is constructed as a single integral piece of substantially uniformly-thick sheet-like metal embodying a central mechanically-anchoring and electrostatic-stress-distributing portion of cup-shape extending into the column having a transverse inner-end wall and a rounded inner-end perimeter, an annular end supporting-base portion projecting laterally from the mouth of the cup and an annular flange projecting from said supporting-base portion toward the other terminal member a distance less than the inner end of the cup for mechanically protecting the end of the dielectric column, assisting in controlling the electrostatic field of the insulator and constituting attaching means.

4. An insulator comprising ceramic dielectric and metallic terminal elements providing a substantially entirely-enclosed space, and a dielectric filler material capable of flowing and having a dielectric strength greater than air substantially entirely filling said space, one of said elements having a relatively small breathing opening for said filler material.

1,689,907. PUNCTURE-SEALING INNER TUBE. SHERMAN T. ALLEN, Los Angeles, Calif. Filed Mar. 14, 1928. Serial No. 261,617. 1 Claim. (Cl. 152—13.)



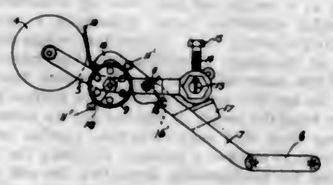
A pneumatic tire tube having an outer wall, an inner wall connecting portions of said tube, forming an annular chamber, and a rubber-like filling material in said chamber, said filling material being non-adherent to the outer wall and inner wall to allow slight slippage of said material relative to the outer and inner walls.

1,689,908. FUR SCARF. GEORGE J. BARUCH, New York, N. Y., assignor to Kaufman & Oberleder, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 8, 1928. Serial No. 252,708. 4 Claims (Cl. 41—10.)



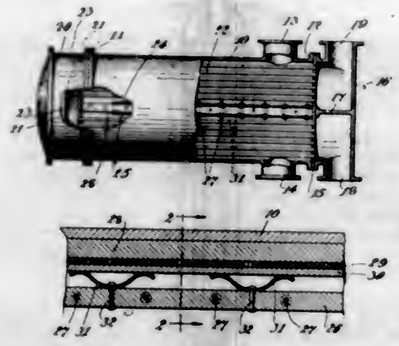
1. In combination with a fur scarf animal head, an ornamental fabric of jewels secured thereto, in which the main features of the animal head are formed and accentuated by contrasting colored stones.

1,689,909. ANTITHEFT ALARM. JAKOB BREIDT, Port Washington, N. Y. Filed Aug. 12, 1927. Serial No. 212,369. 2 Claims. (Cl. 116—33.)



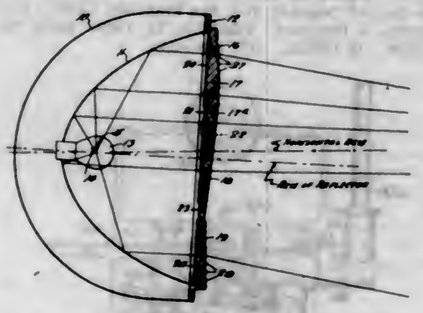
1. An anti-theft alarm for the wheels of a vehicle, comprising a bracket, a pair of arms pivoted to said bracket, a bell carried by said arms, positive mechanical means to lock said arms in operative and inoperative position, a shaft rotatable in said arms, a pair of hammers on said shaft, and a roller on said shaft frictionally engageable with the vehicle wheels to operate said hammers.

1,689,910. HEAT EXCHANGER. ARTHUR P. BROCKLEBANK, Elizabeth, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 5, 1927. Serial No. 231,204. 8 Claims. (Cl. 257—239.)



1. In a heat exchange apparatus, a shell, tube plates, tubes extending between the tube plates, a baffle extending longitudinally of the shell and dividing the same into compartments, a packing at the longitudinal edge of the baffle, and means for positively forcing the packing to position to make a substantially tight joint between the shell and the baffle.

1,689,911. LENS FOR AUTOMOBILE HEADLIGHTS. BERLIN A. BROUGHTON, Cleveland Heights, Ohio, assignor to Delta Engineering Laboratories, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 10, 1925 Serial No. 68,078. 2 Claims. (Cl. 240—48.4.)

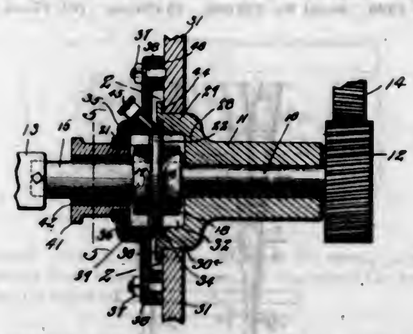


1. A headlight lens having upon its exterior surface prisms of varying degrees of refraction, the exterior surface as a whole being continuous and having no sharply defined edges, the prisms at the top of the lens providing the greatest downward refraction, the prism at the center of the lens giving the greatest upward refraction, there being intermediate prisms between the prisms giving the greatest downward and the greatest upward refraction, the prism at the bottom also giving downward refraction.

1,689,912. BEARING AND SEAL FOR SAME. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey-Morse Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 25, 1924. Serial No. 695,031. 11 Claims. (Cl. 286—7.)

1. A seal comprising in combination with a casing to be sealed a sectional shaft, oppositely disposed convex members fixed to said shaft sections, a plate loosely arranged on said shaft between said convex members, and secured in sealed relation with said casing and concave mem-

bers interposed between said plate and said convex members, each of said concave members having a flat side



for engaging the respective face of said plate and a concave seat for receiving the convex face of the corresponding member.

1,689,913. MULTIPLE FLYWHEEL. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey-Morse Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 18, 1925. Serial No. 57,138. 5 Claims. (Cl. 192—105.)



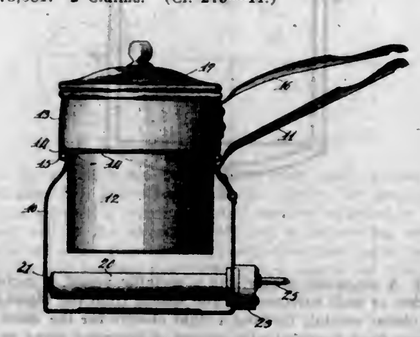
1. In a multiple fly wheel, the combination of a pair of coaxial fly wheel sections of substantially equal diameters, one of which is provided with an annular flange presented toward the other section, a plurality of segmental pieces movably mounted on said other section and enclosed by said annular flange and provided with peripheral convex portions adapted to engage the concave face of the flange of the first section, said pieces being operable by centrifugal action, coil springs for retracting said pieces, and a retaining member pivotally mounted on each segmental piece and adapted to engage the opposite piece and lock the latter in retracted position, said retaining members being operable by centrifugal action to release said pieces at a speed greater than that required to operate said segmental pieces to insure proper operative engagement of the latter with said annular flange.

1,689,914. FISHING REEL. FRANCIS M. CASE, Cleveland Heights, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed June 26, 1924. Serial No. 722,524. 1 Claim. (Cl. 242—84.6.)



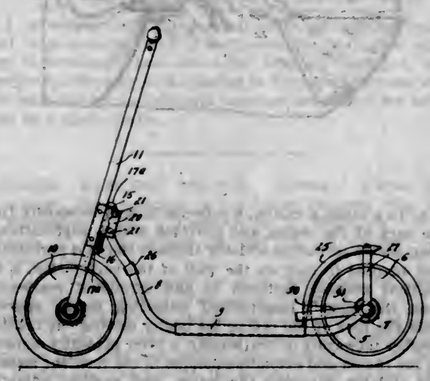
In a fishing reel, an end head, a click spring mounted thereon, said spring having a base plate portion and a click spring portion, said plate portion having its lower surface in engagement with said end head and having a plurality of side edges and said spring portion being integrally connected to one of said side edges, said end head being provided with an abutment member raised from the surface thereof and engaging the other side edges of said plate portion and with another abutment member, opposed to the said first named abutment member, engaging said spring portion adjacent its securement to the plate portion, whereby said click spring is maintained in proper position on said end head.

1,689,915. ELECTRIC HEATING VESSEL. CHARLES ENDORF, Chicago, Ill. Filed Dec. 16, 1925. Serial No. 75,681. 2 Claims. (Cl. 219—44.)



1. In an electric heating vessel, the combination with a container, of a tubular member adapted to extend diametrically of the container on the interior thereof, means for detachably clamping the tubular member to the wall of the container with an open end of the said tubular member accessible from the exterior of the container, said means comprising a washer or nut in screw threaded engagement with the tubular member, an electric heating element slidably and detachably carried within the tubular member, means for attaching the electric heating element comprising a cap secured to one end of the electric heating element, a screw adapted to pass through an opening in the cap and having screw threaded engagement with the said washer or nut, and a plurality of terminal or binding posts carried by the cap.

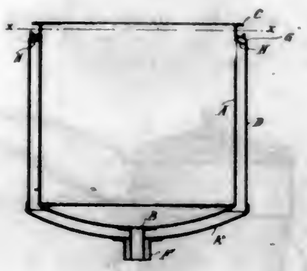
1,689,916. SCOOTER OR COASTER. ROBERT E. FISHER, Cleveland, Ohio, assignor to The George H. Bowman Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 28, 1924. Serial No. 734,739. 8 Claims. (Cl. 280—87.5.)



1. A scooter or coaster, comprising a pair of spaced frame members, front and rear supporting wheels therefor,

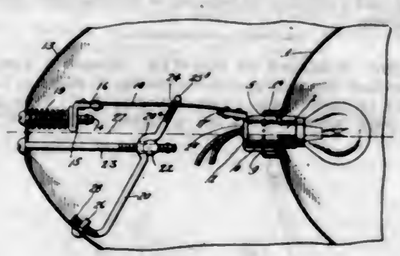
and a metal platform mounted on said frame members and having its side edge portions bent around said members so as to provide an interlocking connection therebetween.

1,689,917. CONTAINER. ELLIOTT E. GEISINGER, Rochester, N. Y., assignor to The Pfaudler Co., Rochester, N. Y., a Corporation of New York. Filed Sept. 25, 1922. Serial No. 590,304. 3 Claims. (Cl. 257—212.)



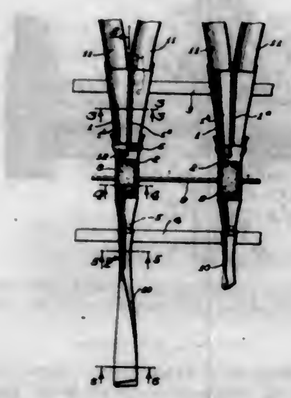
1. A container comprising a metallic vessel, a metallic jacket or shell surrounding and spaced from the vessel and a tubular conduit forming a tight closure for the space between them provided with groups of diverging spray or jet apertures directed toward the vessel and an aperture and a closure therefor opposite each group of jet apertures for permitting access thereto from the exterior.

1,689,918. FOCUSING ADJUSTMENT DEVICE. CHARLES E. GODLEY, Ypsilanti, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company, a Corporation of Michigan. Filed Sept. 16, 1926. Serial No. 135,972. 8 Claims. (Cl. 240—44.)



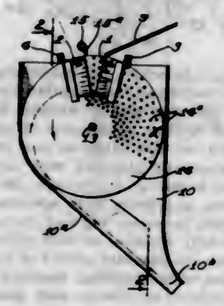
1. In a lamp, a casing, a reflector spaced forwardly from the back of the casing and provided with a perforation, a lamp socket extending slidably through the said perforation and adapted to rock on the wall of the perforation, a flat resilient member fastened to and extending rearwardly from the socket, longitudinal adjusting means operable from the rear of the casing for bodily moving the resilient member forwardly or rearwardly, a lever pivotally mounted on the casing and extending oblique to the resilient member and slidably engaging the latter, and vertical adjusting means operable from outside the casing for rocking the lever about its said pivotal mounting.

1,689,919. FISH DIRECTING AND TURNING APPARATUS. FRANK HEATH, National City, Calif. Filed Dec. 7, 1926. Serial No. 153,056. 10 Claims. (Cl. 17—2.)



1. In a speed checking apparatus of the class described, an unobstructed fish directing chute adapted to receive fish on their normally flat sides, and a circular brush mounted on an axis transverse with the axis of the chute and extended with its bristles into the latter for engaging the upwardly turned normally flat side of a fish.

1,689,920. FISH-DIRECTING APPARATUS. FRANK HEATH, National City, Calif. Filed Dec. 7, 1926. Serial No. 153,057. 8 Claims. (Cl. 17—2.)

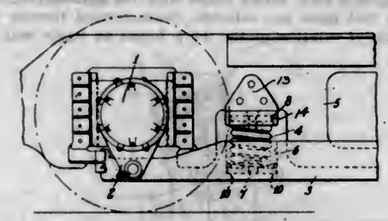


1. In an apparatus of the class described, a means for receiving individual fish pointed in different directions and for directing the same with the heads foremost, a chute, and movable means in connection with the first means and said chute adapted to be engaged by the heads of the fish from the first means for redirecting the same from the first means into said chute.

1,689,921. BOGIE FOR RAILWAY CARS AND THE LIKE. LARS GUSTAF HARRY HELMSTEIN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Jan. 18, 1926, Serial No. 81,904, and in Sweden Jan. 21, 1925. 4 Claims. (Cl. 105—194.)

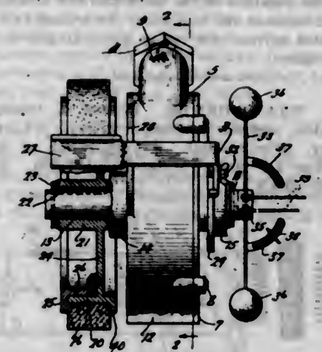
1. An improvement in trucks for railway cars and the like comprising a journal box, a beam supported by the

journal box, such beam having an upwarly directed socket for supporting a spring, the socket extending downwardly



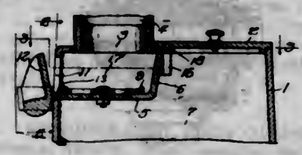
entirely through the beam, whereby the spring may be inserted from below, and means for supporting the spring after its insertion.

1,689,922. GRINDING APPARATUS. DEAR TUNG HOY, Chicago, Ill. Filed Dec. 28, 1927. Serial No. 243,159. 3 Claims. (Cl. 51—166.)



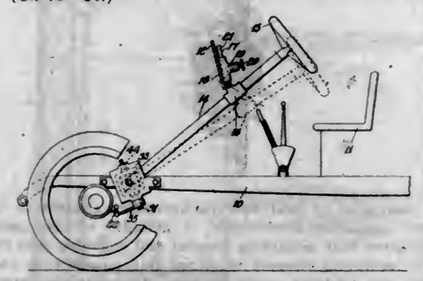
1. A grinding apparatus comprising a casing, a fluid inlet stub in the upper portion of the casing, an outlet stub at the lower portion of the casing, a rotor actuated by fluid passing through said casing, a spindle to which said rotor is secured, one end of said spindle being extended beyond the casing, and a grinding stone mounted on the extended end of said spindle, the peripheral portion of said stone being positioned adjacent the outlet stub and there being a lateral orifice in the wall of the outlet stub on its side next the stone whereby a portion of the fluid passing through said stub is discharged on said stone.

1,689,923. BAFFLE FOR COAL-BURNING HEATERS. JACOB T. LANDGRAF, Macomb, Ill., assignor to American Steel Products Co., Macomb, Ill., a Corporation of Illinois. Filed Jan. 23, 1928. Serial No. 248,615. 9 Claims. (Cl. 126—58.)



1. A coal burning heater comprising a body having a fine aperture and a fuel aperture in its top, and a baffle member adapted to be removed through the fuel aperture; the baffle member having an upper end projecting through the fuel aperture and supported by the upper end of the heater body, the baffle also having a lower portion supported by the said body at the opposite side of the fine aperture from its upper end, the said upper ends of the baffle member and the heater body having coacting portions which interengage to prevent the baffle member from sliding within the heater body toward the fuel aperture.

1,689,924. STEERING MECHANISM. EDWARD J. MALONEY, Long Island City, N. Y. Filed May 24, 1923, Serial No. 641,042. Renewed May 1, 1928. 2 Claims. (Cl. 74—80.)



2. In a vehicle: a swinging steering post; means to lock same to a fiifxed portion of the vehicle; the drag link of the vehicle; a double eccentric member mounted at the lower end of the steering post; and a cooperating member acted upon thereby in opposite directions upon turning the said steering post to provide a couple for rotating the cooperating member; and means connecting the drag link with said cooperating member.

1,689,925. TONGUE AND TEETH FOR DOLL HEADS. SAMUEL MARCUS, Brooklyn, N. Y., assignor, by mesne assignments, to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 21, 1926. Serial No. 143,031. 10 Claims. (Cl. 46—40.)



1. A tongue and teeth for doll heads, comprising tongue and teeth members one of said members having an opening therethrough and the other member having a part projecting through said opening in frictional contact with the wall thereof to hold said members assembled for handling as a single entity.

1,689,926. ELECTRIC SWITCH. GEORGE J. MEUER, Milwaukee, Wis., assignor to the Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 15, 1923. Serial No. 645,508. 6 Claims. (Cl. 200—163.)

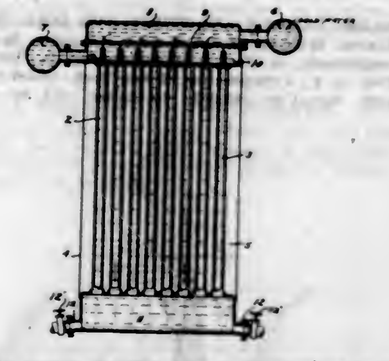
6. In a switch adapted for flush mounting, the combination with a metallic front plate having a slot and an insulating base having surface parallel to the front plate, a pair of spaced circuit terminals comprising elements penetrating said base and having their respective ends upset or riveted and exposed on the forward face of said base, a switching member comprising a pair of insulating elements respectively engaging the forward and rear faces

of said front plate, the forward insulating element being of substantially frusto-pyramidal shape and having a shank extending into the slot in said front plate, said shank having flat sides engaging the longitudinal walls of the slot to prevent rotation of said forward insulating element with respect to said front plate, said shank being also engageable selectively with the end walls of said slot to limit



the movement of said forward insulating element in opposite directions respectively, a metallic member penetrating the rear insulating element and engaging said forward insulating element to clamp said elements to each other, and bridging contactor for said terminals carried by said metallic member and having a spring bias whereby said contactor exerts pressure on said terminals when in engagement therewith.

1,689,927. PROCESS OF AND APPARATUS FOR TRANSFERRING HEAT. RAY C. NEWHOUSE, Wauwatosa, Wis. Filed Dec. 14, 1923. Serial No. 680,578. 6 Claims. (Cl. 257—254.)



1. The process of utilizing gases of combustion to heat fluid having an initial temperature below the dew point temperature of the gases, which comprises, producing a stream of the fluid having oppositely flowing adjacent portions at least one of which has gradually decreasing velocity, initially raising the temperature of one of said stream portions to at least the dew point temperature of the gases by transfer of heat from said gases through the other of said stream portions, and subsequently heating the fluid from said initially heated stream portion by direct transmission of heat from said gases.

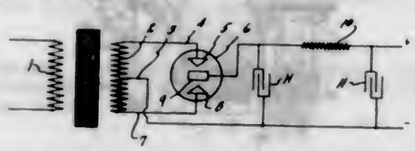
1,689,928. METHOD OF AND MEANS FOR FORMING OR WORKING SPHERICAL SURFACES, CONCAVE OR CONVEX. NILS JOSEF OLSSON, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Feb. 25, 1926, Serial No. 90,453, and in Sweden Mar. 5, 1925. 4 Claims. (Cl. 51—90.)

1. Procedure for the shaping of spherical surfaces by means of three simultaneous, continuous rotations, viz the rotation of the work around an axis through the centre of the spherical surface, the rotation of the tool around its own symmetrical axis and the revolving of this latter axis around a second axis through the centre of the spherical surface with which latter axis the symmetrical axis of the tool must not coincide, characterized thereby that the axis of rotation of the work forms an angle with the



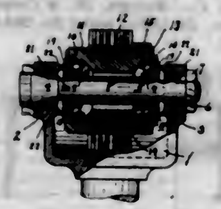
second axis through the centre of the spherical surface around which the symmetrical axis of the tool revolves and that the rotation of the work and the rotation of the symmetrical axis of the tool about the second axis through the spherical surface are taking place at speeds differing from each other.

1,689,929. TRANSFORMER. ROBERT L. OSBORNE, Detroit, Mich., assignor to Dougan Electric Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 19, 1926. Serial No. 117,080. 5 Claims. (Cl. 175—365.)



1. A transformer comprising a core, a primary winding on the said core, a shield winding consisting of a single layer wound about the primary, one end of the shield winding being free and the opposite end being grounded, a secondary winding about the shield winding consisting of two layer wound coils positioned in reverse relation about the shield winding, the inner layers of the two coils being electrically connected, and the outer layers of the two coils being provided with output terminals as and for the purpose described.

1,689,930. EMERY-WHEEL DRESSER. ROLAND P. PLACE, Midland, Mich. Filed Feb. 9, 1925. Serial No. 7,804. 1 Claim. (Cl. 125—37.)



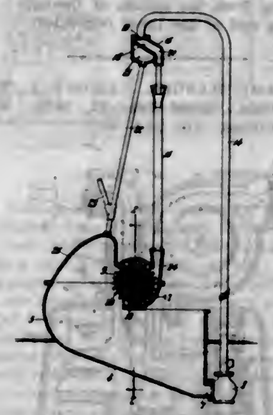
In an emery wheel dresser, the combination of a holder having side members, a shaft mounted in said side members, a cutter mounted on the shaft, ball bearings between the shaft and cutter, washers on the shaft contacting with the inner ring members of said bearings, and cup shaped resilient metal washers between said washers and the side members of the holder to automatically adjust said ball bearings.

1,689,931. HOOD CATCH. ROLAND P. PLACE, Midland, Mich. Filed Feb. 4, 1926. Serial No. 85,890. 3 Claims. (Cl. 292—114.)



1. A hood door latch of the class described comprising a spring arm having a door engaging block at its upper end, and the lower end of which is pivotally connected with a fixed support; a stem fixedly secured to said arm adjacent the lower end thereof and extending upwardly from said lower end alongside said arm; and a spring actuated hold-down member carried by said stem and movable longitudinally thereupon and having a hook adapted to engage a fixed abutment carried by a hood door.

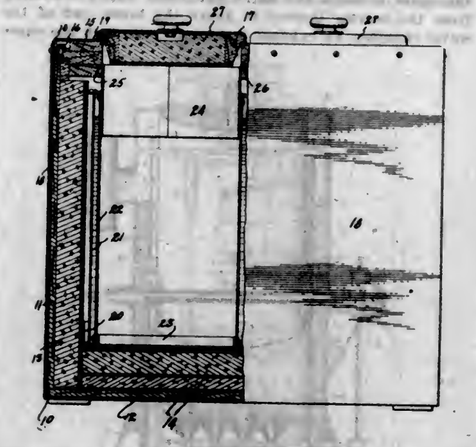
1,689,932. PULP BEATER. LEONARD E. RANDECKER, Erie, Pa., assignor to Hammermill Paper Company, Erie, Pa., a Corporation of Pennsylvania. Filed Feb. 10, 1927. Serial No. 167,101. 13 Claims. (Cl. 92—25.)



1. In a pulp beater, a tub, a beater roll, a bed plate cooperatively associated with the roll, an elevated receptacle, a feed pipe leading downwardly from the elevated receptacle to the roll, and means distinct from the roll for elevating pulp from the tub to the receptacle whereby the pulp will be fed to the roll with a substantial velocity due to gravity.

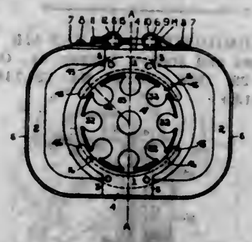
1,689,933. REFRIGERATED FOOD CABINET. JOHN R. REPLOGLE, Detroit, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Original application filed Nov. 9, 1923, Serial No. 673,678, and in Canada Aug. 30, 1923. Divided and this application filed Aug. 26, 1926. Serial No. 131,568. 5 Claims. (Cl. 217—7.)

1. In a refrigerated food cabinet, the combination of a heat insulated chamber having an apertured top wall formed of material of low heat conductivity, a brine tank within said chamber having open food storage compartments in alignment with the apertures through said top wall, and annular sleeves having a flanged end adapted to be embedded in said top wall adjacent the apertures inter-



mediate the upper and lower surfaces thereof, said sleeves depending into the food storage compartments to form a continuous enclosed passageway.

1,689,934. ELECTRIC GENERATOR. GEORGE BERKELEY ROLFE, London, England, assignor to Eversbed & Vignoles, Limited, London, England. Filed Apr. 17, 1923, Serial No. 632,596, and in Great Britain May 17, 1922. 1 Claim. (Cl. 171—209.)

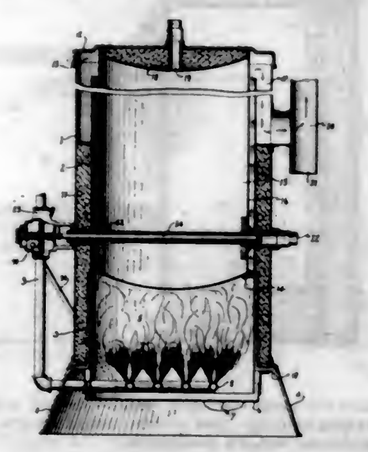


In a dynamo electric machine, a pole piece unit having in combination two laminated pole pieces, two locating rings of non-magnetizable material rigidly and permanently connected to said pole pieces, said rings each having a circular external perimeter, and armature bearing brackets having recessed portions cooperating with said circular perimeters for definitely locating the polar faces of the unit relative to the armature axis of the machine.

1,689,935. WATER HEATER. FRANK W. SHUELL, Detroit, Mich., assignor to The Ever Hot Heater Co., Detroit, Mich., a Corporation of Michigan. Filed Aug. 2, 1922. Serial No. 579,172. 2 Claims. (Cl. 122—19.)

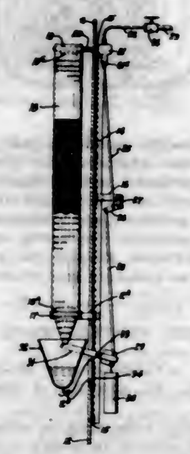
1. A water heater comprising an outer casing, an inner casing in spaced relation therewith, a base consisting of a cylindrical shell supporting the said inner and outer casings, a cylindrical shell providing a water chamber within the inner casing, the said water chamber shell being spaced from the inner casing and supported directly by the cylindrical base, the structure providing a combustion chamber below the water chamber and a space between the inner shell and water chamber opening directly to the combustion chamber, a cover member for the outer

casing, the inner casing terminating short of the cover providing for an egress of gases from the inner to the outer shells at the top, the upper end of the water chamber having a heat insulated cover, insulating material in the space between the outer and inner shells extending from the bottom thereof to above the lower end of the water chamber, an exhaust flue opening through the outer



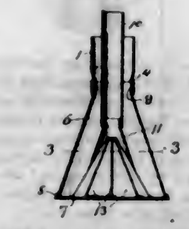
shell just above the insulating material therebetween, said exhaust flue having an opening to atmosphere below the point of connection of the flue with the shell of a diameter practically equal to that of the flue, an outlet conduit for the water chamber at the top, an inlet conduit therefor near the bottom, and a thermostatically controlled heater member in the combustion chamber.

1,689,936. HUMIDIFIER FOR HOT-AIR FURNACES. JOSEF SUBERT and JOSEPH SUBERT, Jr., Oak Park, Ill. Filed July 22, 1926. Serial No. 124,148. 1 Claim. (Cl. 126—113.)



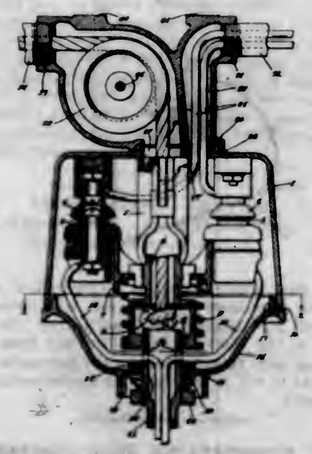
A humidifier for hot air furnaces having an outer casing, comprising a vertical tubular container having perforated sides and bottom and granular material within said container, means for mounting said container in an upright position within said outer casing, a water supply outlet at the upper end of said container for depositing water within said container and moistening said granular material, a valve for controlling the flow of water through said supply outlet, a movably mounted bucket located below and adjacent to the bottom of said container and adapted to receive the excess of water passing into and through said container and not retained by said granular material, and means interconnected with said valve and movably mounted bucket for automatically controlling the closing and opening of said valve and regulate the flow of water within said container and upon said granular material and in the bucket.

1,689,937. HEATING APPARATUS. JOSIAH H. SUTTER, Wichita, Kans. Filed Jan. 27, 1928. Serial No. 249,901. 4 Claims. (Cl. 126—70.)



1. In an air heater, two air conductors, one within the other and having its side walls spaced therefrom and having an open upper end and a downwardly flaring lower end having intake openings and resting against the bottom of the outer conductor, the latter having an open upper end and a closed flaring lower end adapted for insertion into a stove or furnace, and upwardly tapering radial plates extending from the bottom of the outer conductor into the flaring end of the inner conductor.

1,689,938. LAMP HANGER. ALLISON J. THOMPSON, Cleveland, Ohio. Filed Dec. 22, 1922. Serial No. 608,446. 4 Claims. (Cl. 240—66.)



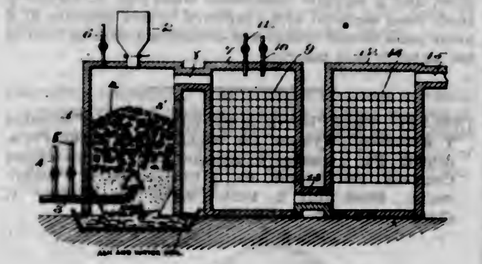
1. A lamp hanger structure, comprising a main hanger member, a lamp hanger member, means for securing said members together, said main hanger member having a canopy member enclosing said securing means, an inverted canopy for closing said first named canopy against the entrance of foreign elements, said inverted canopy having a central aperture for the lamp hanger member, and a spring surrounding said lamp hanger member and engaging said inverted canopy so as to provide a yielding engagement therebetween.

1,689,939. MOP. MATTHEW J. WELLING, Chicago, Ill., assignor to O-Cedar Corp'n, a Corporation of Illinois. Filed Apr. 13, 1927. Serial No. 183,282. 6 Claims. (Cl. 15—229.)



1. A mop comprising a mop head having a peripheral upturned edge, a mop swatch including a band having a free portion extending over said upturned edge to cover the same, and a clamping member engaging said free portion of the band below said edge to secure said swatch to said head.

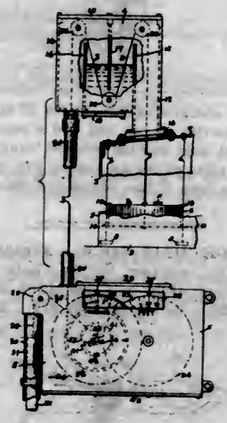
1,689,940. PROCESS OF MAKING FUEL GAS. ALFRED H. WHITE, Ann Arbor, Mich. Filed Jan. 14, 1920. Serial No. 351,512. 8 Claims. (Cl. 48—205.)



1. The continuous process of making combustible gas with a heating value of over 200 British thermal units per cubic foot, which consists in substantially continuously blowing a charge of solid fuel within a gas generator with a gaseous mixture whose principal reactive constituents are oxygen, and steam in such proportions and so regulated in quantity that the fuel bed is continuously maintained at not less than a red heat and combustible gas is evolved, introducing enriching carbonaceous material derived from an external source into this hot gas capable of itself undergoing destructive distillation at a red heat and reacting with said hot gases to form gaseous hydrocarbons, and causing it to undergo destructive distillation and further interaction with the hot combustible gas out of contact with metallic surfaces and at temperatures which decrease slowly and are maintained principally by the energy resulting from the reactions in the fuel charge in the generator, whereby substantial destructive decomposition into free carbon of the hydrocarbons so formed is avoided.

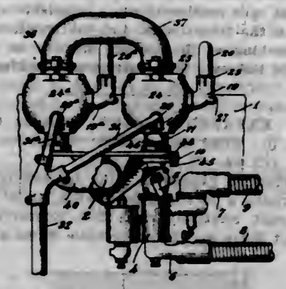
1,689,941. LIQUID-LEVEL INDICATOR. STEPHEN H. BROOKS, Cleveland, Ohio, assignor to The Oil Conservation Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 23, 1922. Serial No. 608,676. 2 Claims. (Cl. 73—82.)

1. In a liquid seal for tank gauges, the combination of a casing provided with two upwardly extending flanges mounted interiorly of the casing and extending to a height spaced below the top of said casing and forming a chamber to contain the sealing liquid, a partition wall attached to the casing top and extending into said chamber between said two flanges and into the sealing liquid, said casing having a hollow standard for tank attachment at one side of said liquid chamber, and having a second hollow portion on the other side of said liquid chamber for communi-



cation with an indicator, and cable guiding means mounted in said casing and adapted to guide a cable through said hollow standard and over one of said flanges into the liquid, below said partition wall and up through said liquid and over said other flange and down through said guide chamber.

1,689,942. SUPERHEAT SYSTEM FOR INTERNAL-COMBUSTION ENGINES. WILLIAM P. DEPPE, Brightwaters, N. Y. Filed Feb. 18, 1922. Serial No. 537,404. 11 Claims. (Cl. 123—122.)



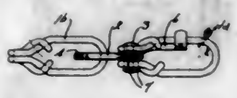
1. An apparatus for preparing a superheated homogeneous dry gaseous mixture for operating internal combustion engines, comprising a carburetor, a spherically shaped annular heating chamber connected with and adapted to receive mixture from the carburetor, means for heating said chamber to a temperature for vaporizing the fuel constituents without cracking or producing the spheroidal state therein, a second spherically shaped annular heating chamber mounted adjacent the first named heating chamber, a connecting conduit between said heating chambers to conduct the mixture from the first into the second, means for heating the second heating chamber to a temperature adapted to superheat the mixture, a conduit connecting the second heating chamber with the intakes of the engine, and means for injecting predetermined amounts of hot products of combustion into the fuel mixture passing through said connecting conduit between the heating chambers.

1,689,943. COMBINATION HOOK AND LOOP. HENRY D'OLIER, Jr., Bridgeport, Conn. Filed Oct. 12, 1925. Serial No. 61,879. 9 Claims. (Cl. 24—232.)



1. A support comprising two pieces of metal, each having a holding portion at one end and a supporting portion at the other end, said holding portion being in the form of a hook if two unlike pieces are placed side by side throughout and being a loop if like pieces are placed side by side throughout.

1,689,944. SIDE-CHAIN LOCK. ALFRED N. EDEBURN, Cleveland, Ohio, assignor to The Chain Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 14, 1926. Serial No. 115,977. 2 Claims. (Cl. 24—69.)

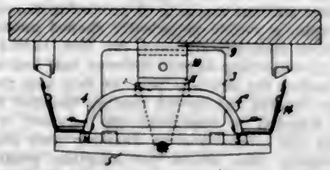


1. A tire side chain provided with fastening means at one end, said means including an end chain link of resilient material open at its ends and provided with two arms terminating in parallel and aligned eyes tending to move broadside into engagement by the resiliency of said arms, a pin passing through said eyes and provided with heads on its opposite end permitting separation thereof, and a hook-shaped locking member having a long arm provided with a laterally extending locking member and a return short arm pivoted on said pin between said eyes, the long arm being of such length that when said member is turned back into locking position said locking member engages with and latches around one of the arms in said end link, in which position said eyes resiliently press broadside against opposite faces of the return arm, and said resilient link arms requiring cocking of the locking member on said pin to separate said link eyes for releasing said locking member.

1,689,945. EXPANSION JOINT. ALBERT C. FISCHER, Chicago, Ill. Filed May 3, 1926. Serial No. 106,561. 6 Claims. (Cl. 94—18.)

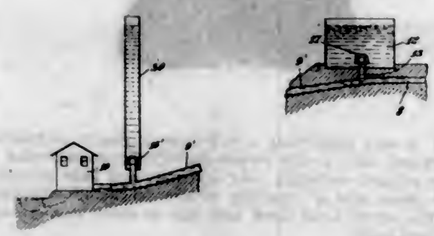
6. A preformed expansion joint for concrete construction, comprising a ductile, compressible binder in excess of sixty per cent, relatively rigid, flat, reinforcing elements composed of fibers and long vegetable fibres and long animal hair.

1,689,946. ELECTROMAGNETIC RELAY DEVICE. ALFRED ERNEST HUDD, Wallasey, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Filed Oct. 31, 1925, Serial No. 65,981, and in Great Britain Aug. 22, 1925. 22 Claims. (Cl. 175—339.)



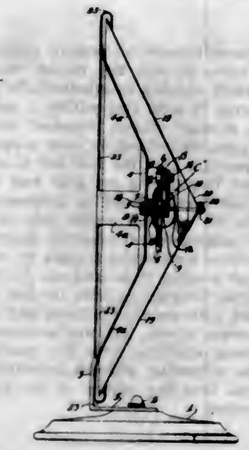
1. In an electromagnetic mechanism of the polarized type, an operating member adapted to take up two different positions and an armature adapted to operate always in the same direction irrespective of the direction of exciting current to bring about the movement of the operating member to either of its positions.

1,689,947. PRESSURE-CONTROL SYSTEM. RAYMOND D. JOHNSON, New York, N. Y. Filed Nov. 28, 1925. Serial No. 71,966. 2 Claims. (Cl. 61—19)



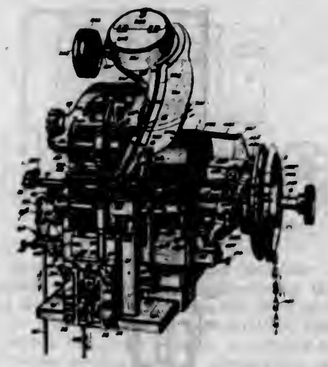
1. In a pressure control system the combination with a relatively elevated reservoir, of a pipe line supplied thereby and having an incline at its end portion, a surge tank connected to said pipe line adjacent the top of said incline, and a separate unenclosed stand-pipe of relatively small cross sectional area connected to said pipe line at a lower point of said incline and extending above the level of the water in said reservoir.

1,689,948. TELEPHONE MAGNET SYSTEM. RUSSELL T. KINGSFORD, Wyncote, and WILLIAM H. RICHTER, Philadelphia, Pa., assignors to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 2, 1925. Serial No. 41,031. 17 Claims. (Cl. 179—115.)



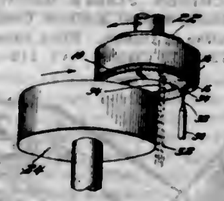
1. A telephone magnet system comprising a magnet frame, pole piece structure secured thereto at its one end and having at its other end a ground pole face, a vibratile armature bar secured adjacent its one end to said magnet frame and having its free end disposed adjacent and substantially parallel to said ground pole face, and a diaphragm of large area having small amplitude of vibration in unconfined air actuated by said vibratile armature bar.

1,689,949. EYELETING MACHINE. WILLIAM F. LAUTENSCHLAGER, Cincinnati, Ohio, assignor to Lorenz Muther, Newton, Mass. Filed Aug. 5, 1921. Serial No. 490,099. Renewed Apr. 19, 1928. 57 Claims. (Cl. 218—15.)



1. In an eyelet machine, a tool carrying frame, a combined punching and setting tool, a setting tool opposing said first named tool, each mounted for reciprocation in said guide frame, the central axes of the said tools being in fixed alignment, means for reciprocating said tools at different speeds, and means for feeding said frame.

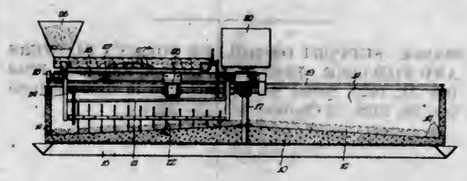
1,689,950. GRINDING MACHINE, GRINDING WHEEL, AND METHOD OF COOLING THE SAME. WALTER B. LEONARD, 2d, Providence, R. I., assignor to American Emery Wheel Works, Providence, R. I., a Corporation of Rhode Island. Filed Sept. 6, 1927. Serial No. 217,822. 14 Claims. (Cl. 51—266.)



1. In a grinding machine, in combination, a rotating surface grinder comprising a cylindrical ring of substantial depth having a wall of inherently abrasive material having an annular grinding face on one end thereof and having enclosed pockets substantially elliptical in section extending part way across the annular grinding face thereof obliquely to the radial enclosed by the side wall thereof extending upwards a substantial distance within the wall thereof and terminating in rounded upper ends, means for moving work arcuately across a portion only of said rotating annular grinding face and means to project a stream of coolant substantially vertically upwardly into said pockets adjacent the point of departure of said grinding face from the work, whereby cooling pistons of coolant may be rammed into said pockets after the grinding face leaves the work and dropped out before said pockets again reach the work.

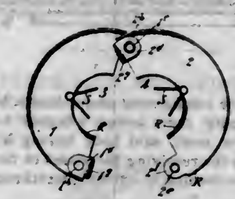
1,689,951. MANUFACTURE OF FERROUS HYDROXIDE. EMIL M. LOFLAND, Chicago, Ill. Filed Aug. 14, 1926. Serial No. 129,289. 22 Claims. (Cl. 23—200.)

1. Process for the manufacture of an iron compound which comprises wetting fragments of iron, subjecting the wetted fragments to the action of oxygen for a period adequate to permit the formation of coatings of ferrous hydroxide on the fragments, and then removing and recovering the material of these coatings before it is converted to the ferric form.



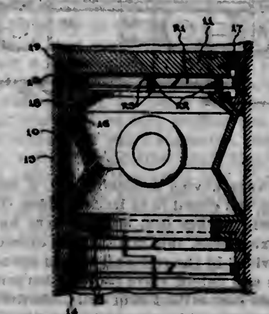
14. An iron compound consisting of ferrous hydroxide preserved by an acid solution of a soluble salt of iron.

1,689,952. FLOOR AND CEILING PLATE FOR PIPES. LOUIS B. LOVEJOY, Bridgeport, Conn., assignor, by mesne assignments, to Clark Metal Products, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 1, 1926. Serial No. 99,050. 5 Claims. (Cl. 126—317.)



2. A device of the character described, comprising a pair of identically formed and interchangeable semi-circular members, each member having an opening at one end and a downwardly extending eyelet shank at the other, one of said eyelet shanks being permanently retained in the opening in the other member by being headed over, thereby securing those ends of the members pivotally together, the other eyelet shank being adapted to fit into the other opening for detachably holding the other ends of the members together, the member which has the opening into which the shank is adapted to fit detachably being provided with a guide for guiding said shank into said opening.

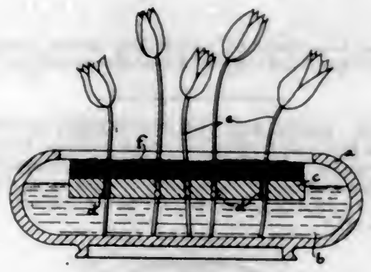
1,689,953. ENGINE PISTON. MARTIN H. LUTZ, Jr., Nelsonville, Ohio. Filed July 25, 1927. Serial No. 208,275. 3 Claims. (Cl. 74—108.)



1. A piston comprising a body portion, a head separate from the body portion, the piston and the head being formed with peripheral grooves having side walls disposed

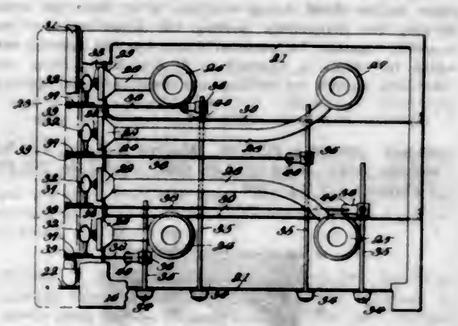
at acute angles to the axis of the piston, the wall in the head being at the opposite angle from that in the body portion, and a compression ring bounding the head and a part of the body portion and having lips conforming in shape to the shape of the grooves in the same.

1,689,954. SUPPORT OR HOLDER FOR CUT FLOWERS AND THE LIKE. LÉON MARX, London, England. Filed Oct. 31, 1927, Serial No. 229,908, and in Great Britain Dec. 30, 1926. 2 Claims. (Cl. 47—41.)



1. A support for cut flowers, comprising a body of material of less density than water, adapted to float in a water filled flower bowl, said body having a plurality of apertures therein for receiving the stems of flowers, whereby said stems are enabled to extend therethrough into said water.

1,689,955. GAS RANGE. BENJAMIN EDWARD MEACHAM, Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Feb. 2, 1928. Serial No. 251,338. 7 Claims. (Cl. 126—39.)



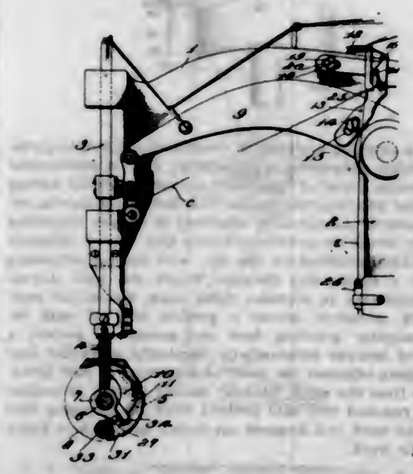
1. A gas range having a cooking top, a burner box beneath said top and closed in at its four sides, front and rear burners in said burner box, said burners having mixing tubes and mixing bells, said mixing bells extending through openings provided in the end wall of said burner box, a gas delivery pipe and cut-off valve for said burners at the end of said burner box beyond said bells, controlling handles for said valves rotatably mounted upon the front wall of said burner box and provided with elongated shafts extending into said burner box, and operative connection between said shafts and said cut-off valves, for the purpose described.

1,689,956. WELL PACKER. CHARLES R. MEEKER, Pittsburgh, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 11, 1925. Serial No. 68,322. 4 Claims. (Cl. 166—12.)



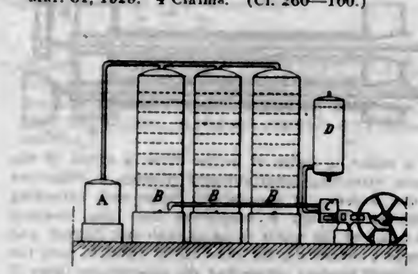
1. In a packer, a body, a cage loosely mounted on the body, a slip receiving opening in the cage, a slip mounted in the said opening, a spring member having a slot therein, means passed through the slot and movable therein for movably connecting the slip and spring member, and means for fixedly engaging the said member and cage.

1,689,957. THREAD-CONTROLLING MECHANISM FOR SEWING MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 22, 1926. Serial No. 117,724. 12 Claims. (Cl. 112—249.)



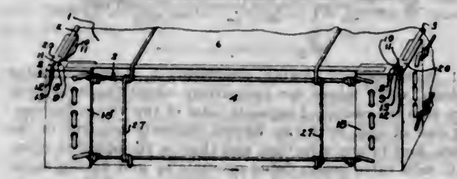
1. In a sewing machine, the combination of a looper carrier, a looper mounted thereon, a thread controlling mechanism for said looper including a stationary cam member, and a movable member mounted on the looper carrier adjacent the looper and cooperating with said stationary member.

1,689,958. PROCESS OF MANUFACTURE OF CELLULOSE XANTHATE. PIERRE MORO, Marseille, France. Filed Mar. 18, 1926, Serial No. 95,670, and in France Mar. 31, 1925. 4 Claims. (Cl. 260—100.)



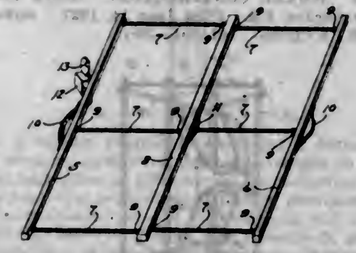
1. The process of manufacturing cellulose xanthate which consists in compressing alkali cellulose thereby to obtain less than 300 parts for each 100 parts of cellulose, reducing the product to very small particles, and mixing the same with a high-grade solution of sulphur in carbon bisulphide while heating it to a temperature of 30° to 40° C.

1,689,959. SHIPPING AND DISPLAY BOX. WILLIAM H. MOUNT, Summit, N. J. Original application filed Oct. 10, 1922, Serial No. 593,593. Divided and this application filed Nov. 24, 1925. Serial No. 71,060. 6 Claims. (Cl. 217—17.)



4. A new article of manufacture comprising a side or end of a knock-down box having metallic strengthening members at each end and a relatively weak intermediate member and means passing transversely through the strengthening member a plurality of times to fasten said members together and extending longitudinally thereof to connect the strengthening members.

1,689,960. MATTRESS CARRIER. EMMA NELSON, Minneapolis, Minn. Filed Nov. 2, 1927. Serial No. 230,485. 2 Claims. (Cl. 224—49.)



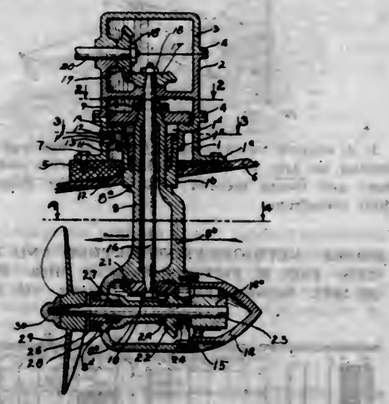
1. A mattress carrier comprising a pair of outer bars, an intermediate bar, coiled springs connecting the outer bars to the intermediate bars, and a latch for separably connecting the outer bars.

1,689,961. DISPENSING FAUCET. WILLIAM E. PATNAUDE, Stoughton, Mass., assignor to The Shallcross Company, Philadelphia, Pa., a Corporation of Delaware. Filed May 13, 1925. Serial No. 29,878. 3 Claims. (Cl. 251—134.)



1. A self-closing dispensing faucet comprising a vertically disposed cylindrically-shaped casing having a side entrance pipe and a discharge port at its lower end, a vertically movable hollow valve stem having a valve at its lower end arranged to seat on the casing about the port, a guide spindle mounted in said casing and entering said hollow stem to guide the same, an operating lever having a shaft portion mounted in the wall of said pipe, said shaft portion having an arm extended at an angle thereto and engaged with said stem to lift the same when said lever is operated, and a closing spring surrounding said guide spindle and acting against the said casing and said stem to close the valve against its seat.

1,689,962. PROPELLING MECHANISM FOR BOATS. ELMER E. PECK, Long Beach, Calif. Filed Oct. 5, 1925, Serial No. 60,455. Renewed Sept. 10, 1928. 7 Claims. (Cl. 115—18.)

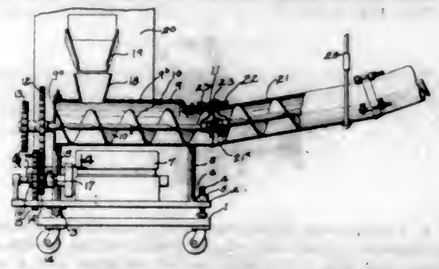


1. In a motor boat wherein a driven propeller is supported from the bottom of the boat and adapted for pulling the boat: means for supporting the propeller and its housing so that it may be moved for steering purposes, said means including a boat housing extending into the bottom of the boat and affording a stuffing box therefor, a drive shaft housing journaled in said stuffing box in the boat housing, a propeller and shaft supported from said drive shaft housing, means in said drive shaft housing including a drive shaft adapted for operating said propeller, and a steering wheel enclosed by said boat housing and mounted on the upper end of said drive shaft housing for supporting and turning it relative to said boat housing.

1,689,963. CONCRETE MIXER AND CONVEYER. BENJAMIN H. PELTON, Carlsbad, Calif., assignor to B. H. Pelton, jr., Casper, Wyo. Filed May 4, 1926. Serial No. 106,616. 4 Claims. (Cl. 198—213.)

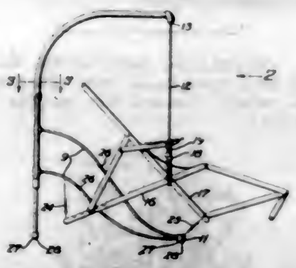
1. In a means of the class described, a pair of conveyer casings adapted to be connected at various angles at one

of their ends, inwardly offset spider brackets mounted within and at the adjacent ends of said casings, conveyer screws revolubly mounted at one of their ends in said



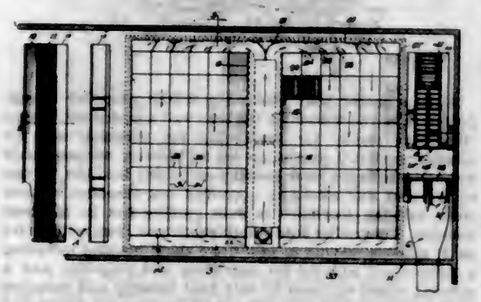
brackets, and universal joint means connecting the adjacent ends of said conveyer screws between the offset portions of said brackets.

1,689,964. STEAMER-DECK-CHAIR SUPPORT. GRACE G. PERREGO, San Francisco, Calif. Filed June 29, 1927. Serial No. 202,174. 12 Claims. (Cl. 114—194.)
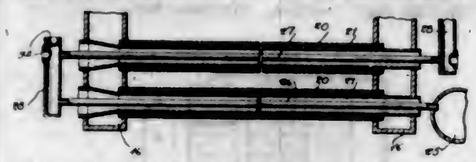


1. A support comprising a frame having legs, and including an arm in vertical alignment with one of said legs; and means secured to said arm for suspending a chair therefrom.

1,689,965. REFRIGERATING METHOD AND APPARATUS. PAUL W. PETERSEN, Bay City, Mich. Filed May 26, 1923. Serial No. 641,648. 14 Claims. (Cl. 62—137.)



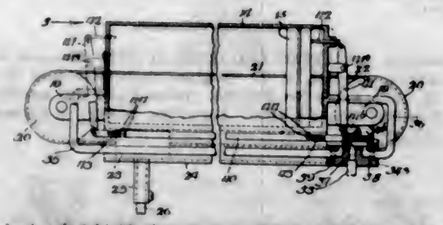
1. Apparatus for refrigerating comestibles comprising a plurality of portable open top comestible containers for insertion into a body of refrigerating liquid, frame members having flanges for engaging each container and mounted over the body of liquid for carrying the weight of said containers while immersed in the liquid, and spaced means for holding the top edges of each container horizontally spaced from said frame members whereby refrigerant drip from others of said portable containers is prevented from draining into the open top of the container from said members.

1,689,966. STEAM BOILER. UNITO PISI, Philadelphia, Pa. Filed May 6, 1926. Serial No. 107,250. 10 Claims. (Cl. 122—267.)



2. In a boiler, a series of water tubes, a series of fire tubes each extending longitudinally through a respective water tube, a series of superheater tubes each extending longitudinally through a respective fire tube, headers common to all of the water tubes at each end thereof, and other headers connecting the superheater tubes in sets, the last mentioned headers connecting the superheater tubes of each set in successive order.

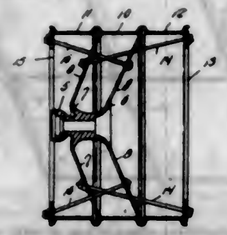
1,689,967. WINDSHIELD-WIPER ACTUATOR. THOMAS B. POLK, Seattle, Wash., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Filed Jan. 26, 1924. Serial No. 688,892. 9 Claims. (Cl. 15—253.)



1. A windshield cleaner comprising a casing, a piston therein, valve means for operatively admitting fluid pressure into the casing at opposite sides of the piston for moving one of said first two named elements relative to the other, first in one direction, and then in the opposite direction, said valve means being operable by and during movement of the movable one of the first two named elements, a wiper operable back and forth by the movable one of said first two named elements, and means for adjusting the operative stroke of said movable element whereby the area cleaned by said wiper may be varied.

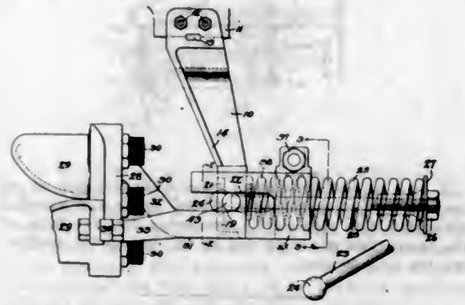
8. A windshield cleaner comprising a cylinder, a piston operable therein upon the application of fluid pressure to the piston within the cylinder, valve mechanism for operatively admitting fluid pressure to the cylinder, said cylinder having a lengthwise extending guide on its periphery, a wiper carrier slidable along the guide and supported thereby on the exterior of the cylinder, and means operatively connecting the carrier to the piston for being driven thereby.

1,689,968. WHEEL CONSTRUCTION. HOYLE POUNDS, Winter Garden, Fla. Filed June 14, 1927. Serial No. 198,749. 8 Claims. (Cl. 301—36.)



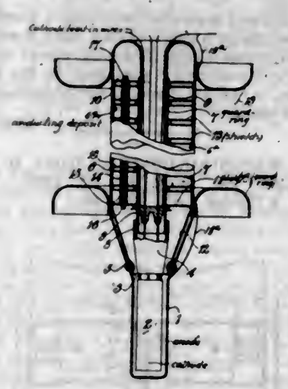
1. A wheel structure of the class described comprising a hub, spokes radiating from the hub, said spokes being disposed in series, a rim at the ends of the spokes, a pair of additional rims, a pair of rings for engaging the outer edges of the additional rims to hold them in concentric abutting relation with the first mentioned rim, and means engaging the rings with the spokes.

1,689,969. ADJUSTABLE TRAIN-PIPE CONNECTER. EDWARD A. ROBINSON, Montreal, Canada, assignor to himself and Ellison Edward Workman, Montreal, Canada. Filed Oct. 4, 1920. Serial No. 414,517. 17 Claims. (Cl. 285—24.)



1. In an automatic train connecter, a head, train pipe terminals carried thereby, a carrier rigidly mounted with respect to the head, a bracket adapted to be secured to a fixed car member, a buffer spring back of the bracket, a tie rod holding the buffer spring and a fastening rigid with the carrier and tightly engaging the spring to move with the spring.

1,689,970. VACUUM TUBE AND THE LIKE. ERNEST YEOMAN ROBINSON, Manchester, England, assignor to Metropolitan-Vickers Electrical Company Limited, London, England, a British Joint Stock Company. Filed Oct. 11, 1923, Serial No. 667,922, and in Great Britain Oct. 18, 1922. 8 Claims. (Cl. 250—27.5.)



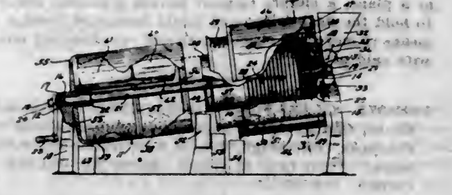
1. In a vacuum electric device having a hermetically sealed envelope, conducting members arranged to be operated at high potential difference for the production within the envelope of a predetermined electric phenomenon between predetermined parts of their surfaces, and a bridge of insulating material holding said members in position, said bridge being of sufficient length to prevent surface discharge across it, the space between said surface parts of the conducting members other than directly between said members being divided into a plurality of gaps in series which are individually of such short length as to prevent ionization in said space.

1,689,971. VACUUM ELECTRIC-TUBE DEVICE. ERNEST YEOMAN ROBINSON, Withington, Manchester, England, assignor to Metropolitan-Vickers Electrical Company Limited, a Company Organized under Laws of Great Britain. Filed June 27, 1924, Serial No. 722,810, and in Great Britain July 24, 1923. 5 Claims. (Cl. 250—27.)



1. In a system which contains a vacuum electric tube with a filamentary cathode heated by alternating current and provided with end taps and at least one intermediate tap, the method of reducing the inequality in the distribution of heat along the filament due to the space current of the tube flowing therein which consists in leading in the space current to the filament at its end and intermediate taps while the filament is not short-circuited as regards its heating current and no appreciable impedance is offered to the space current.

1,689,972. GRAIN SEPARATOR. ANDREW E. ROTHGARN, Minneapolis, Minn., assignor to Samuel C. Clow, Minneapolis, Minn. Filed Apr. 12, 1926. Serial No. 101,363. 6 Claims. (Cl. 209—395.)



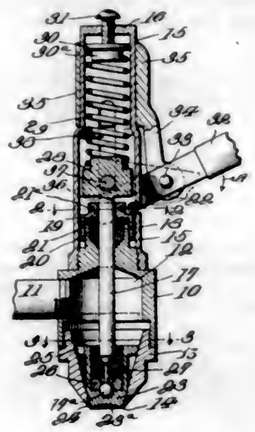
1. The combination with an axially inclined cylindrical separator for holding materials to be separated comprising annular grate bars, of cleaners between the grate bars, a cylindrical screen surrounding said separator, a cylindrical collecting drum surrounding the screen, and means for rotating the separator, screen and drum.

1,689,973. CUTTER FOR PLANING GEAR TEETH. OLE SEVERSON, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 20, 1924. Serial No. 757,197. 10 Claims. (Cl. 29—102.)



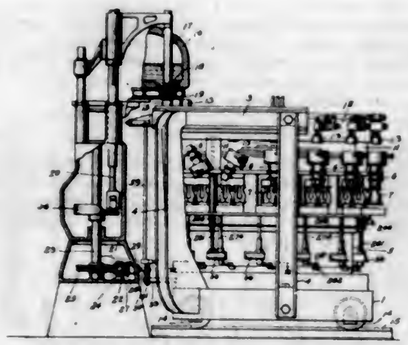
10. A gear cutter of the reciprocatory type comprising a body member formed with supporting teeth on the periphery thereof; cutter bits adapted to be supported on the forward faces of said teeth; interfitting formations on the adjoining surfaces; a ledge portion extending from said body member adjacent but spaced from the inner edge of each tooth to form openings therebetween; and wedging members adapted to adjustably engage in said openings for locking said cutter bits in position.

1,689,974. VALVE. HERBERT L. SHALLCROSS, Philadelphia, Pa. Filed Aug. 22, 1925. Serial No. 51,867. 8 Claims. (Cl. 251—162.)



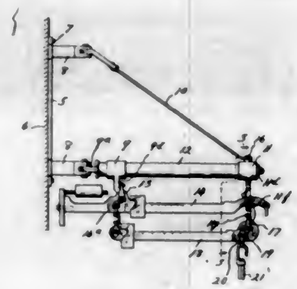
1. In a valve, a casing forming a liquid chamber which terminates at the bottom in a conical passage with an externally conical wall intersecting the conical passage wall in a plane, a closure element having a conical lower end to enter and seal said conical passage and in its sealed position to present its lower end substantially in said in a plane, a closure element having a conical lower end to hold the final delivery of liquid from said passage, and means to move said element into and out of sealing relation with said passage.

1,689,975. GLASS-FORMING MACHINE. THEODORE H. SLOAN, Charleroi, Pa., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 12, 1926. Serial No. 141,097. 26 Claims. (Cl. 49—5.)



2. In a glass forming machine, the combination with a source of supply adapted to deliver glass, of a frame, a continuously rotating turret provided with a plurality of forming units continuously movable with it, a plurality of glass-receiving cups borne by said turret and movable with the turret each in registration with a forming unit, means borne by said frame for successively engaging and holding each of said cups stationary at the delivery staton to receive glass, and means borne by the turret for subsequently causing each cup to move with the turret in registration with a succeeding forming unit.

1,689,976. BEAM SCALE. WALTER F. STIMPSON, Louisville, Ky. Filed Nov. 18, 1927. Serial No. 234,118. 6 Claims. (Cl. 265—49.)

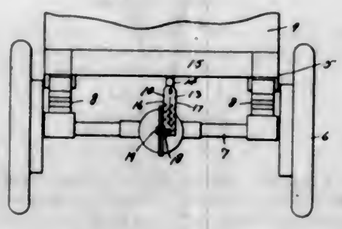


1. In a support for a beam scale, a sleeve, a pair of cap castings encircling the ends of the sleeve and provided with shoulders respectively contacting the end faces of the sleeve, and means carried by the castings for suspending the scale beams.

1,689,977. GARMENT SUPPORTER. DAVID M. STIRTON, San Francisco, Calif. Filed Feb. 6, 1925. Serial No. 7,296. 3 Claims. (Cl. 24—168.)

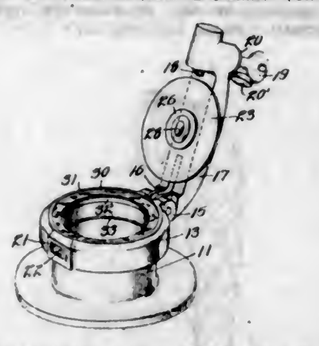
2. In a garment supporter including a supporting web, a buckle comprising a plate having slots therein through which the web passes, and fastening means for the fixed end of the web comprising a member on the back of the plate having a bulged portion for clamping said web against said plate.

1,689,978. WEIGHING DEVICE. HARRY M. SWARTLEY, Philadelphia, Pa. Filed Feb. 2, 1927. Serial No. 165,351. 2 Claims. (Cl. 265—40.)



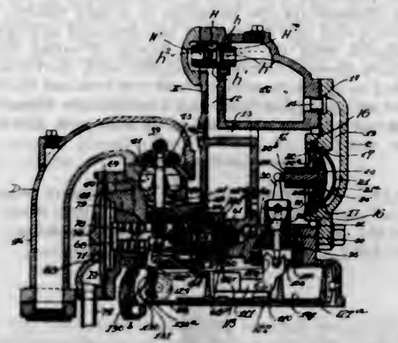
1. In combination with a vehicle including a body and axle, a bracket secured to the under side of the body, an adjustable scale plate vertically mounted on said bracket and having two different scales thereon side by side in permanent relation, and a pointer secured to the axle for simultaneously indicating the weights represented on both scales.

1,689,979. GAS-TANK CAP. HOMER E. TATE, JAMES E. KING, and HERBERT BARBER, Ashland, Ky. Filed Feb. 14, 1928. Serial No. 254,310. 2 Claims. (Cl. 70—90.)



1. A cap for a gas tank comprising a hollow body, an arm pivoted to said body and extending across the same, a depression beneath the free end of said arm, a locking bolt carried by said arm for engagement with said depression, a set screw extending through said body and having its head located in said depression whereby the locking bolt will conceal said head, and a lid for said body resiliently carried by said arm, substantially as set forth.

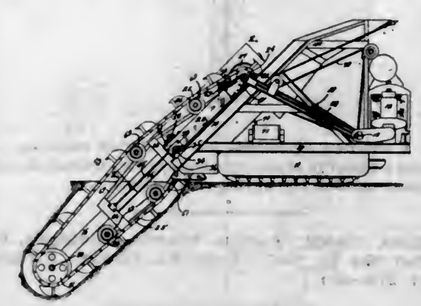
1,689,980. DRY-PIPE SPRINKLER-SYSTEM ACCELERATOR. EMIL TYDEN, Evanston, Ill. Filed Feb. 15, 1926. Serial No. 88,167. 13 Claims. (Cl. 169—22.)



1. In a dry pipe sprinkler system, in combination with a valve casing and a water-controlling valve therein, adapted to be held seated against the water pressure by the air pressure in the system, a device comprising means caused to operate for producing movement upon limited decline of pressure in the air pressure region of the system; a movable part caused to be moved by said means; an atmosphere vent port and a conduit leading thereto from the air pressure region of the system; a valve controlling said port positioned for being normally held seated by the pressure in the air pressure region of the system, and operative connections from said movable part for opening said valve against the air pressure of the system; means for automatically locking said valve at open position, and means operated by the water pressure, admitted as the result of venting the air pressure, for automatically releasing the locking means to cause said valve to be closed by the pressure resulting in the air pressure region, from the admission of the water pressure.

13. In combination with a dry pipe sprinkler system, an accelerating device for hastening reduction of pressure in the air pressure region of the system having a passage for communication with said region and adapted to be set in operation by decline of pressure in said region, the system comprising a conduit connected with said air pressure region for freely venting the pressure therein to the atmosphere; a vent valve controlling said conduit, said accelerating device comprising a chamber to which the pressure from the air pressure region has access, a movable part mounted for movement in response to change in said pressure reaching said chamber, and mechanical connections from said movable part for causing the opening of said atmosphere vent valve, said connections comprising a part extending from within said chamber and protruding airtight out through the wall thereof, and other parts exterior to said chamber brought into operation for opening said atmosphere vent valve by said protruding part, said exterior parts being accessible for manipulation both for reacting on said interior part and for causing the opening of said atmosphere vent valve.

1,689,981. LATERALLY-ADJUSTABLE EXCAVATOR-BOOM STRUCTURE. GEORGE A. VAUGHN, Newton, Iowa, assignor to The Parsons Company, Newton, Iowa. Filed Sept. 30, 1926. Serial No. 138,645. 21 Claims. (Cl. 37—90.)



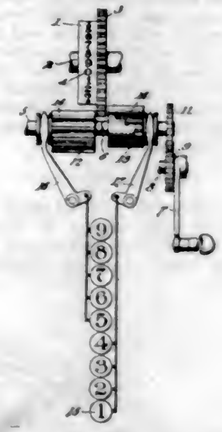
11. In a machine of the class described, a main frame, a second frame mounted to be raised and lowered thereon by a movement wherein the lower end travels in an inclined plane and the upper end travels in an arc, a boom supported on the second frame for lateral adjustment thereon, and excavating mechanism carried by the boom.

1,689,982. LEVEL VIAL HOLDER. PAUL HERMAN VOGEL, New Hartford, Conn., assignor to The Chapin-Stephens Company, Pine Meadow, Conn., a Corporation. Filed Mar. 31, 1927. Serial No. 179,774. 2 Claims. (Cl. 33—211.)



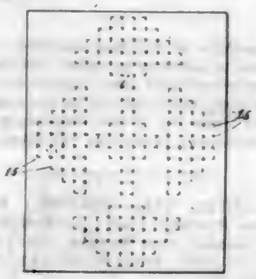
1. In a level, a stock of wood provided with an elongated opening for level vials and having at the inner peripheral surface of the ends of said opening a supporting web, said web having faces on the opposite sides that serve as seats, a pair of plates, each in the form of a border for said opening, positioned one on each side of said stock, and having extensions at the ends that are opposed respectively to said seats, bolts projected through said web and engaged with said extensions for holding said plates, said plates being provided with integral lugs for supporting level vials, said extension in each case covering only a portion of the adjacent seat to which it is opposed, the extension of the plate on one side being generally on the oppsite side of the longitudinal axial plane relatively to the extension of the plate on the opposite side, whereby unobstructed portions of said seats are available for use of the holding bolts.

1,689,983. SELECTIVE GEAR TRANSMISSION FOR CALCULATING MACHINES. EDWARD CLAXTON WALTER, Orange, N. J., assignor to The Elliott-Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 21, 1925. Serial No. 24,770. 12 Claims. (Cl. 235—82.)



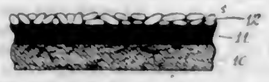
1. A selecting mechanism for calculating machines, including a plurality of selecting members for a single denominational position and having parallel axes.

1,689,984. GAME. RAPHAEL WALTON, Philadelphia, Pa. Filed May 20, 1927. Serial No. 192,949. 1 Claim. (Cl. 273—30.)



In a game of the character described, a series of indications for starting the drawing of lines to form squares, said indications being arranged in predetermined configurations, each indication consisting of two lines for determining the direction in which the enclosing lines are to be drawn.

1,689,985. READY ROOFING. HENRY R. WARDELL, New York, N. Y., assignor to Johns-Manville, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 23, 1921. Serial No. 517,258. 6 Claims. (Cl. 154—51.)



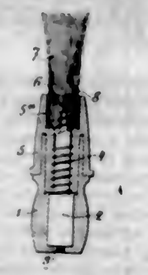
1. Prepared roofing of laminated structure comprising a sheet composed of a mixture of asbestos fibre and cattle hair impregnated with an asphaltic waterproofing compound, a layer of adhesive asphalt covering the said sheet upon one side of the same, and a layer of grit adhering to and covering the said adhesive asphalt layer.

1,689,986. AMPLIFYING ATTACHMENT FOR HORNS OF SOUND-REPRODUCING INSTRUMENTS. WILSON E. WEATHERLY, Chicago, Ill., assignor to Austin G. Bland, Riverton, W. Va. Filed Oct. 13, 1926. Serial No. 141,351. 1 Claim. (Cl. 181—27.)



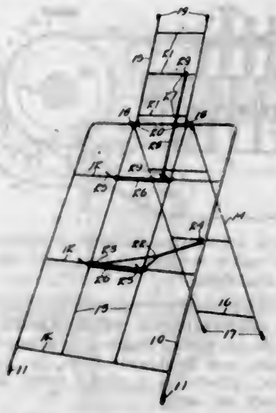
An attachment for lengthening the volume of air included within an amplifying horn comprising a base having a chamber for the reception of a loud speaker unit therein, a stub tube rising from said base and having communication with the chamber therein, a casing having apertures therein, collars surrounding said apertures and adapted to receive respectively said stub tube and the small end of an amplifying horn, and a coiled tube within said casing having communication at its ends with said apertures.

1,689,987. SHAVING BRUSH. JEAN-MARIE WERNER, Montbeliard, France. Filed Jan. 31, 1927, Serial No. 164,916, and in France Feb. 27, 1926. 2 Claims. (Cl. 15—194.)



1. A shaving brush-holder comprising a handle, a sleeve upon said handle, the said sleeve being adapted for the insertion of the base portion of a bundle of bound up bristles and a tapered spindle secured to the said handle and adapted to enter into the said bundle of bristles, the said sleeve comprising a cylindrical extension which is internally provided with a screw thread, the tapered surface of the said spindle being provided with a screw thread and said spindle comprising a screw threaded cylindrical extension which is adapted to be screwed into the extension of the said sleeve, the pitch of the screw thread of the said extension being the same as that of the one on the tapered portion of said spindle.

1,689,988. FLORAL RACK. CLARENCE J. WHITE, Peoria, Ill., assignor, by mesne assignments, to Heinz Floral Rack Co., Chicago, Ill., a Corporation. Filed Apr. 23, 1928. Serial No. 272,275. 1 Claim. (Cl. 211—161.)



A floral rack comprising a main frame provided with cross-bars, frame supports of different widths and lengths pivoted to the upper portion of said frame for supporting the same in different angular positions, the smaller of said frame supports being provided with aligned guides intermediate the sides thereof, and an elongated slidable bar fitted in said guides, whereby said smaller frame support may be held in substantially the same plane as the said main frame and form a continuation thereof by sliding said bar downwardly and engaging its end portion behind one of the cross-bars on said main frame, substantially as set forth.

1,689,989. PRODUCTION OF AXLE HOUSINGS. HERBERT H. WILLIAMS, Brooklyn, N. Y., assignor to Thomas E. Murray, Brooklyn, N. Y. Filed Jan. 23, 1926. Serial No. 83,331. 6 Claims. (Cl. 29—153.1.)



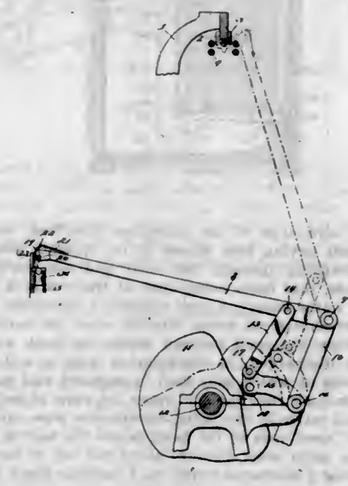
1. The method of making axle housings which consists in forming segments of sheet metal with their ends bent obliquely first outward and then inward, uniting said segments and further bending the outward and inward portions referred to to form flanges of double thickness on the ends of the housing.

1,689,990. RUBBER-MIXING MACHINE. FERNLEY H. BANBURY, Ansonia, Conn., assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a Corporation of Connecticut. Filed Aug. 21, 1926. Serial No. 130,731. 2 Claims. (Cl. 18—2.)



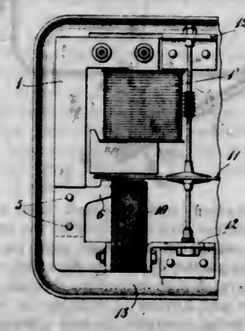
1. A machine of the character described for mixing plastic stock having a casing, a feed hopper mounted on the casing, a door hinged to and adapted to open and close said hopper, said door having a yielding closing edge, a cylinder and piston operatively connected between said door and the casing, and connections for admitting fluid pressure to said cylinder.

1,689,991. ELEVATOR FOR TYPOGRAPHICAL MACHINES. ALFRED M. BERRY, Bellrose, N. Y., assignor to Intertype Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 11, 1928. Serial No. 253,682. 9 Claims. (Cl. 199—37.)



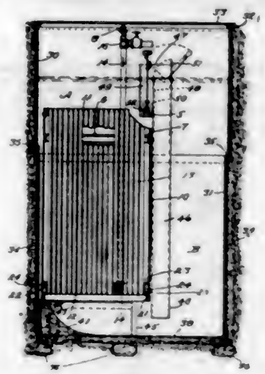
1. In a typographical machine, an elevator for conveying matrices to matrix distributing mechanism, comprising a matrix supporting bar, a positioning member for said bar in fixed relation to it, and means pivotally supporting said bar and member to swing on an axis transverse to the length of said bar.

1,689,992. ELECTRICITY METER. WILLI BEUSCH, Zug, Switzerland, assignor to the Firm Landis & Gyr A.-G., Zug, Switzerland. Filed Aug. 6, 1923, Serial No. 656,041, and in Switzerland Aug. 18, 1922. 4 Claims. (Cl. 171—264.)



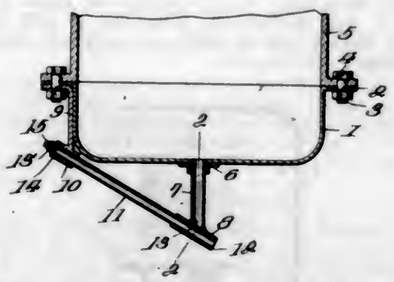
3. In an induction meter in combination, a motor mechanism comprising a main current coil and core and a pressure coil and core, and a connecting and supporting member fastened to both said cores and having an integral portion thereof formed into a counterpole for the pressure magnet.

1,689,993. SOIL-WATER CATCH BASIN AND HEAT RECLAIMER. FRED S. BOLTZ, Mansfield, Mass. Filed Feb. 17, 1926. Serial No. 88,908. 10 Claims. (Cl. 257—121.)



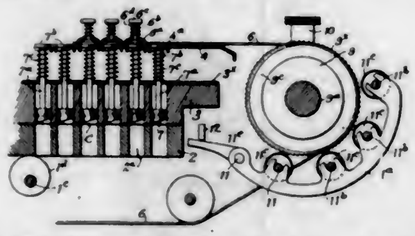
1. An apparatus of the character described, comprising a shell having tube sheets in its opposite ends and tubes extending through the shell and connected with said sheets, said tubes being open at their ends, a source of fresh water supply, a pipe connected therewith adapted to introduce fresh water into the shell, an outlet pipe leading from the shell through which the fresh water is normally discharged, in combination with a soil water catch basin in which said shell is enclosed and mounted in such manner that the said tubes are open at both ends to the soil water in the basin, an overflow pipe extending from the lower part of the basin below the bottom of the shell to a point some distance above the top of the shell, and having a discharge outlet to a suitable place outside of the basin.

1,689,994. DRAIN VALVE FOR AUTOMOBILE CRANK CASES. WILLIAM COMERFORD, Buffalo, N. Y., assignor of one-fifth to Minnie J. Comerford, one-fifth to Mary Comerford, one-fifth to Eileen Comerford, and one-fifth to Joseph P. Comerford, Buffalo, N. Y. Filed Aug. 13, 1923. Serial No. 657,110. 7 Claims. (Cl. 184—106.)



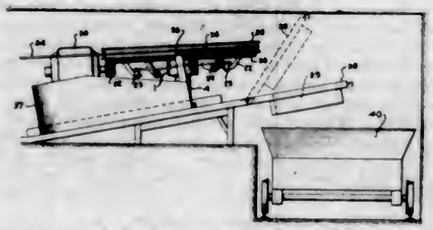
1. The combination with a crank case of an automobile, of a discharge pipe connected to the bottom of the crank case, an obliquely arranged pipe rigidly carried by the lower end of the discharge pipe and communicating therewith, a valve pipe extending through the obliquely arranged pipe and having an opening in one side, and said valve pipe being rotatable in said obliquely arranged pipe so that the opening will establish a communication between said pipes and such communication be closed selectively, and a bracket carried by the side of the crank case and supporting the upper end of the last mentioned pipe, and means for operating and locking the last mentioned pipe in its adjusted position.

1,689,995. CHECK-PERFORATING MACHINE. JOHN H. DAVIS, Chicago, Ill., assignor to Charles O. Hadly, Philadelphia, Pa. Filed Feb. 1, 1927. Serial No. 165,108. 17 Claims. (Cl. 164—111.)



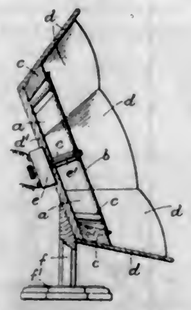
1. In a check perforating machine, a plurality of perforating disks and a movable endless tape carrying keys for operating said disks.

1,689,996. CABLE-DRIVING MECHANISM. KENNETH DAVIS, St. Benedict, Pa., assignor to Rembrandt Peale, Richard Peale, and Rembrandt Peale, jr., trustees, St. Benedict, Pa. Filed July 5, 1924. Serial No. 724,337. 2 Claims. (Cl. 64—40.)



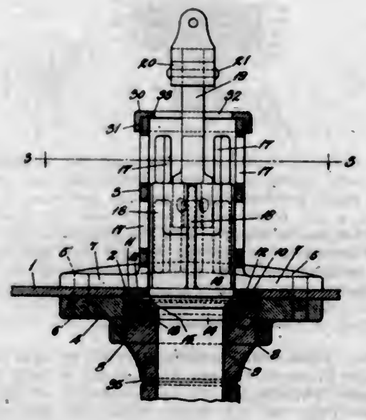
1. In a cable driving mechanism in combination a rotatable sheave about which the cable runs having a central supporting web, a plurality of cable gripping levers pivoted to the central web, an actuating arm on each lever inclined inwardly away from the pivot, spring means fixed to the web and to the actuating arms for impelling the levers to gripping position, cam rollers on the actuating arms, and a stationary cam track, cooperating with the rollers for controlling the gripping movement of the levers.

1,689,997. LOUD SPEAKER, GRAMOPHONE, AND OTHER SOUND RECORDING OR REPRODUCING APPARATUS. CHARLES MAHÉ DE CHENAL DE LA BOURDONNAIS, Loventor Manor, near Totnes, England. Filed July 19, 1926. Serial No. 123,506, and in Great Britain July 29, 1925. 4 Claims. (Cl. 181—27.)



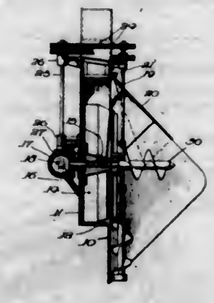
1. A loud speaker comprising a truncated conical horn closed at the truncated end thereof, a diaphragm supported parallel to the closed end and forming therewith a resonance chamber which is open to the open end of the horn, and means for vibrating the diaphragm.

1,689,998. TANK-CAR VALVE. ALBERT M. DOW, El Paso, Tex. Filed Feb. 9, 1921, Serial No. 443,578. Renewed Jan. 17, 1928. 5 Claims. (Cl. 137—21.)



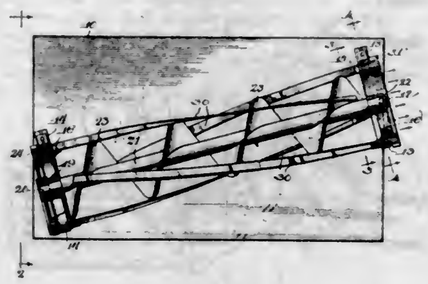
1. A discharge valve and discharge pipe for tank cars, comprising in combination; a tank, a valve housing on the interior thereof, a flanged member opposing said valve housing on the exterior of said tank and rigidly secured to said tank and said housing, a discharge pipe removably secured to said flanged member, a valve seat removably carried by said discharge pipe, a valve contained within said housing and adapted to rest on said valve seat, means for operating said valve from the outside of said tank, and means carried by said discharge pipe to effect a liquid connection between said discharge pipe and said valve housing.

1,689,999. SNOWPLOW FEEDING MECHANISM. EMERY H. FAHRNEY, Chicago, Ill. Filed Apr. 30, 1925. Serial No. 26,911. 5 Claims. (Cl. 37—43.)



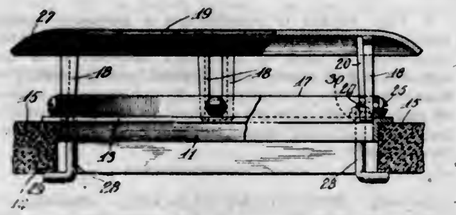
1. A snow plow including a casing having an inlet and a discharge outlet, a rotor in the casing, a scoop like device discharging into the casing, a shaft adjacent and extending lengthwise of the bottom of the scoop and lengthwise of the direction of travel of the scoop, means for rotating the shaft, and a conveyor blade mounted upon the shaft and operating to feed the material through the scoop and along the bottom thereof to the inlet of the rotor casing.

1,690,000. SNOWPLOW. EMERY H. FAHRNEY, Chicago, Ill. Filed May 13, 1926. Serial No. 108,744. 12 Claims. (Cl. 37—43.)



1. A snow plow including a scoop like structure, a conveyor disposed within and transversely across the scoop for delivering the snow to one side thereof, means encompassing and rotatable about the conveyor for disintegrating the snow and feeding the same to the conveyor therethrough, and means for operating the conveyor and the first said means.

1,690,001. FLOOR VENT. ARTHUR J. FILKINS, Riverside, Ill., assignor to Paul Dickinson, Incorporated, a Corporation of Illinois. Filed Aug. 5, 1925. Serial No. 48,205. 4 Claims. (Cl. 98—41.)

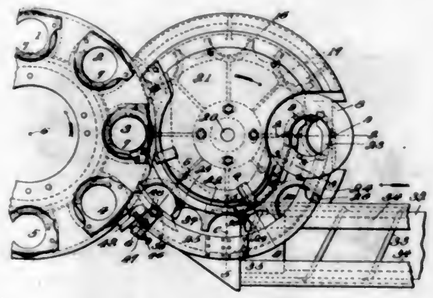


1. A floor vent comprising a base having a vertically depending flange extending around said base in the form of a rectangle for engagement with the floor adjacent the aperture formed therein, said base having an oblong aperture extending therethrough, a cap mounted on said base having a plurality of spaced fork members slidingly engaging said base and having oppositely disposed recessed portions formed therein; and bolts extending through said base and having nuts engaging the recessed portions of said fork members for adjustably securing said cap to said base.

1,690,002. CAN-END-FEEDING MECHANISM FOR CLOSING MACHINES. HENRY A. FINK, Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1926. Serial No. 109,899. 8 Claims. (Cl. 113—114.)

1. A filled can closing machine comprising a seaming unit, means for delivering the filled cans to the seaming unit, a stack holder for the can ends, guides extending from the base of said stack holder over the path of travel of the filled can, said guides having ledges extending

underneath the can end and supporting said can end by the edge portions only thereof, means for moving the can end along said supporting ledges, said supporting ledges



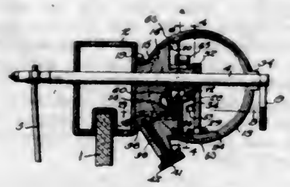
being cut away at a point directly over the path of travel of the filled can whereby the can end sliding along said edges will drop on to the filled can.

1,690,003. METHOD OF MAKING FILLERS FOR BAKING PANS. JOHN W. FOZBCH, Jr., Wilkes-Barre, Pa. Filed Sept. 2, 1926. Serial No. 133,207. 2 Claims. (Cl. 18—59.



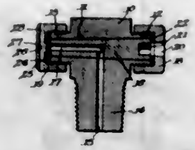
1. That method of constructing a baking pan which consists in providing inner and outer pan wall members, preforming a block of insulating material to a form suitable to fit between said members, and assembling the members on the insulating block and applying pressure to said members to cause the same to engage the insulating block uniformly throughout the inner and outer surfaces of said block.

1,690,004. WINDSHIELD CLEANER. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Apr. 20, 1925. Serial No. 24,601. 7 Claims. (Cl. 121—164.)



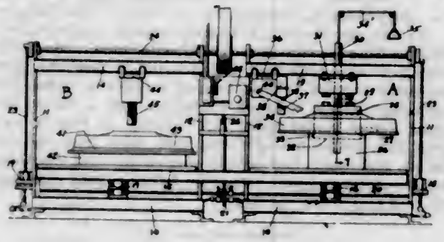
1. A snap over valve mechanism for fluid motors comprising a valve shifting member, a spring connected to said valve shifting member to effect movement thereof, means actuated by the movement of a movable part of the motor to store up energy in said spring to effect movement of the valve shifting member, a valve loosely connected to said valve shifting member to permit slight independent movement thereof, and valve supporting means resiliently retaining said valve on its seat.

1,690,005. LIQUID-CONTROL COCK. CHARLES T. FORD, Washington, D. C. Filed Nov. 19, 1923. Serial No. 675,764. 14 Claims. (Cl. 251—95.)



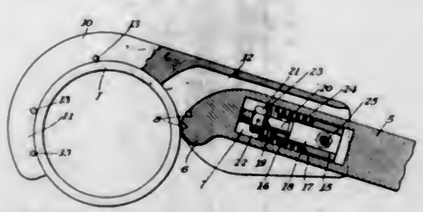
1. In a device of the class described, the combination with a body having a key seat therethrough and an attaching nipple provided with a passage delivering to said key seat, a key fitted closely to the seat and having a passage adapted to register with the passage in said nipple and delivering at one end of said key, and sealing caps at each end of said body portion to seal the ends of the key, one of said caps sealing the key passage.

1,690,006. DISK-WHEEL-STRAIGHTENING MACHINE. RICHARD FURBUSH, Chicago, Ill., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1924. Serial No. 745,125. 7 Claims. (Cl. 153—48.)



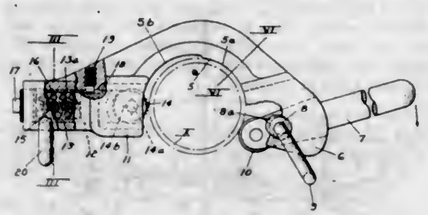
1. In a wheel straightening device, the combination of movable means for clamping the central portion of a disk wheel, and means for moving said clamping means in a direction substantially normal to the plane of a clamped wheel, a support, a pressing tool carried by and movable with respect to said support and adapted to engage said wheel.

1,690,007. AUTOMATIC RELEASING TONGS. EDGAR E. GREVE, Bellevue, Pa. Filed Mar. 1, 1922. Serial No. 540,169. 11 Claims. (Cl. 81—91.)



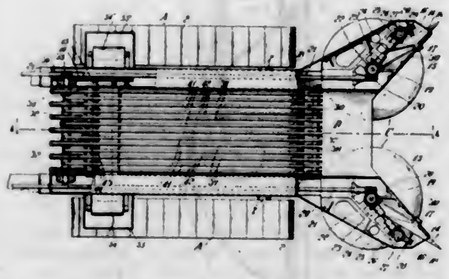
10. In a pipe tong, a jaw member, a handle member pivotally secured to the jaw member, a spring-projected pipe-engaging means on one of the members, and a pipe-engaging means on the other member, said handle member being movable in an arc from pipe-engaging to pipe-releasing position upon forcing the spring projected pipe-engaging means to retracted position.

1,690,008. AUTOMATIC RELEASING TONGS. EDGAR E. GREVE, Bellevue, Pa. Filed June 4, 1925. Serial No. 34,847. 9 Claims. (Cl. 81—91.)



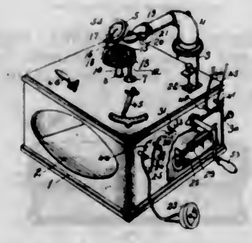
1. In a pipe tong, a curved jaw member, a handle pivotally secured to the jaw member and engageable with a pipe, a spring projected pipe engaging means on the jaw member, said handle being movable in an arc from pipe engaging to pipe releasing position upon forcing the spring projected pipe engaging means to retracted position.

1,690,009. BALLAST-CLEANING APPARATUS. PERRY H. HAMILTON, Baltimore, Md., assignor to Maintenance Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 26, 1925. Serial No. 52,567. 13 Claims. (Cl. 262—2.)



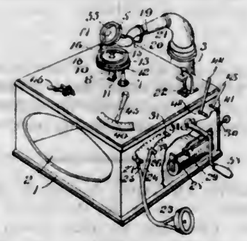
1. A portable apparatus for cleaning rock-ballast, comprising a movable carriage, means at the front end of the carriage for digging up the ballast, means for conveying the ballast upwardly through the carriage to be discharged at the rear end thereof, and means for imparting an up and down movement to the ballast during this travel through the carriage to shake out the finer material.

1,690,010. RADIOTELEPHONY. WARREN D. HOUSE, Kansas City, Mo. Filed May 2, 1923. Serial No. 636,203. 7 Claims. (Cl. 250—21.)



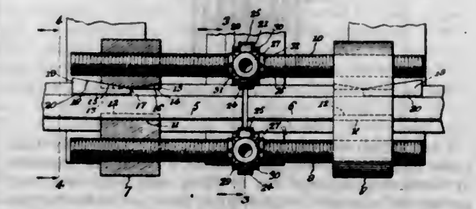
1. The method of converting radio waves into sound waves, which includes rectifying the radio waves, causing such rectified waves to pass from one to the other of two elements, which are maintained in a rubbing relationship by an outer force, and between which there exists a relatively high electrical resistance corresponding to the relatively high potential and adapted for the low amperage of said rectified waves, the characteristics of said elements being such that electric currents of the magnitude of those produced in a radio receiving circuit by a crystal detector or a single tube detector, will serve to vary the frictional relationship between said elements and thereby produce audible signals, and utilizing said varying frictional relationship to produce audible signals.

1,690,011. RADIO LOUD SPEAKER. WARREN D. HOUSE, Kansas City, Mo. Original application filed May 2, 1923. Serial No. 636,203. Divided and this application filed Nov. 7, 1927. Serial No. 231,440. 10 Claims. (Cl. 179—100.1.)



2. A loud speaker comprising a rotatable electrolytic member having a circular concentric guide, a metal electrode in direct contact with said guide and adapted for travel thereon, sound amplifying means connected with and operated by said electrode, and means whereby electric currents may be passed through the electrode and said rotatable member.

1,690,012. RAIL ADJUSTER. ARTHUR S. HUGHES, Minden, La., assignor of seven-twentieths to Dr. John B. Benton, Minden, La. Filed Oct. 13, 1927. Serial No. 226,031. 5 Claims. (Cl. 254—43.)

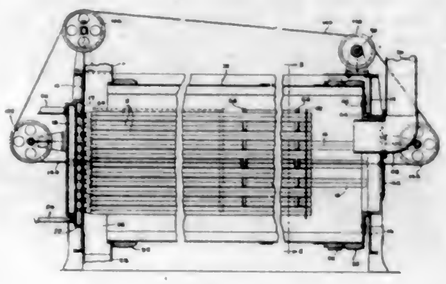


1. An improved rail adjuster comprising spaced heads for engaging the rails and having cut away portions to receive the rails with shoulders at one side to hook under the balls of the rails, the other sides of the heads being provided with divergent inclined walls, wedges for removably engaging either of the inclined walls and the rail balls, and means for moving said heads together or apart.

1,690,013. APPARATUS FOR DRYING OR COOLING MATERIAL. ALEXI G. HUHN, Minneapolis, Minn., assignor to A. Huhn Manufacturing Company, Minneapolis, Minn., a Corporation. Filed Nov. 18, 1925. Serial No. 69,774. 7 Claims. (Cl. 257—92.)

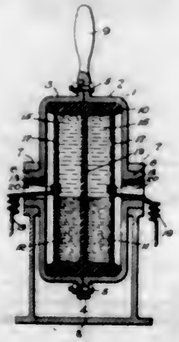
4. Apparatus for drying or cooling material comprising a rotatable casing, a plurality of fixed tubes extending

within said casing, said tubes serving to contain a temperature-changing agent, a scraping device engaging the exterior of said tubes, cables extending through the opposite



ends of said casing and attached to said scraping device, drums around which said cables pass, a shaft to which said drums are secured, and means for rocking said shaft to cause reciprocation of said scraping device.

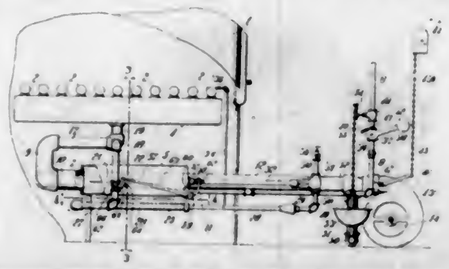
1,690,014. LIQUID SWITCH. JOSEPH R. JACKSON, Jr., Brookline, Mass., assignor to Marguerite E. Jackson, Boston, Mass. Filed Apr. 25, 1924, Serial No. 708,902. Renewed Aug. 24, 1928. 8 Claims. (Cl. 200—152.)



7. A switch comprising a hollow rotatable body composed largely of insulating material, at least one partition of insulating material for dividing said body into compartments, said partition having at least one orifice for providing communication between said compartments, a body of mercury partially filling said compartments and adapted to be united when an orifice is submerged in said mercury by rotation of said hollow body, the side walls of said rotatable hollow body being composed of flexible metal adapted to yield upon expansion by heat of the contents of said compartments, said side walls also constituting the terminals of an electric circuit and in constant electrical communication with said mercury.

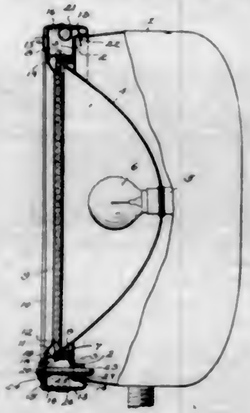
1,690,015. HYDROCARBON BURNER. GEORGE B. JOHNSON, Evanston, Ill. Filed June 24, 1927. Serial No. 201,158. 18 Claims. (Cl. 158—61.)

1. In a fuel oil burner, a vaporizer, means for supplying oil thereto, a burner for heating the vaporizer, a main burner, a conduit having branches leading to the respective burners, means for forcing air through the conduit, the conduit having a branch passage leading to the vaporizer and in constantly unobstructed communication therewith, an ad-



ditional auxiliary burner for heating the vaporizer, and means controlled by the temperature in the vaporizer for regulating the auxiliary burner.

1,690,016. VEHICLE HEADLIGHT. CHRISTIAN H. JORDING, Columbus, Ohio, assignor to The John W. Brown Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Feb. 17, 1926, Serial No. 88,897. Renewed Sept. 17, 1928. 1 Claim. (Cl. 240—41.)



In a vehicle head lamp, a lens ring, a single metal stamping comprising a central portion secured internally within said lens ring, said stamping being split from one end toward said central portion to form resilient locking tongues adapted to connect said ring with an associated lamp casing, and a second extension formed with said stamping and arranged for holding engagement with a lens positioned in said ring.

1,690,017. HINGE AND COMPACT HOLDER FOR VANITY CASES. WILLIAM G. KENDALL, Newark, N. J. Filed Feb. 17, 1928. Serial No. 255,105. 9 Claims. (Cl. 132—82.)



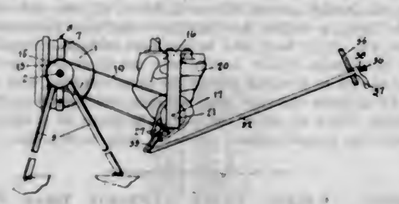
1. A vanity case, comprising a body having a bottom and an upstanding annular wall formed with an opening therein appreciably below the upper edge thereof and an interiorly positioned annular depression in the plane of the opening, a lid for said body adapted to telescope partially over said upstanding wall when closed, said lid being provided with a curled extension presenting a hinge knuckle, said extension projecting through said opening, and a compact pad holding ring arranged in said annular depression for holding a compact in said body, said ring extending through said knuckle for completing the hinge structure.

1,690,018. ADJUSTABLE WRENCH. BRANCH P. KERFOOT, New York, N. Y. Filed Oct. 27, 1924. Serial No. 746,715. 3 Claims. (Cl. 81—113.)



1. In a wrench, the combination with a handle and an adjustable sectional socket, of a shank directly and positively connecting the handle and the socket, a contracting sleeve threaded on the exterior of the shank to be screwed in one direction along the shank to contract the socket, and an expanding core within the shank and movable longitudinally of the shank with the sleeve to expand the socket when the sleeve is screwed along the shank in the opposite direction.

1,690,019. AUTOMOBILE LAMP. MASON H. KERN, Toledo, Ohio. Filed Apr. 18, 1927. Serial No. 184,797. 4 Claims. (Cl. 240—61.)



1. A lamp for vehicles and the like, an arm, connecting means between the lamp and the arm, a locking mechanism connected to the arm for locking the arm in any position to which it may be turned, a tube connected to the arm and extending to near the driver's seat, and a rod located in the tube connected to the locking means and extending to near the driver's seat, whereby the lamp may be adjustably located in position.

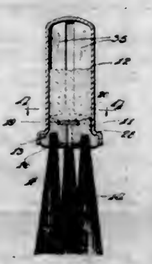
1,690,020. PAVEMENT AND PROCESS OF LAYING SAME. LESTER KIRSCHBRAUN, Chicago, Ill. Filed May 26, 1920. Serial No. 384,258. 10 Claims. (Cl. 94—23.)

1. A process of forming a pavement, comprising laying a concrete foundation, applying an emulsified mixture of bitumen in water and containing an inert emulsifying agent to the concrete base while the latter is still plastic to form a unitary structure by combination of the miscible substances.

1,690,021. MONODIAZO COMPOUNDS OF 1.4-DIAMINOANTHRAQUINONE-β-SULPHONIC ACIDS AND PROCESS OF PREPARING THE SAME. GEORG KRÄNZLEIN and FRITZ ROEMER, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 18, 1927, Serial No. 161,954, and in Germany Jan. 25, 1926. 5 Claims. (Cl. 260—60.)

4. As new products 1-amino-2.6-disulphonic acid-anthraquinone-4-diazonium compounds.

1,690,022. POWDER DUSTER. MORRIS LANGHAUS, New York, N. Y. Filed Apr. 10, 1928. Serial No. 268,959. 1 Claim. (Cl. 15—138.)

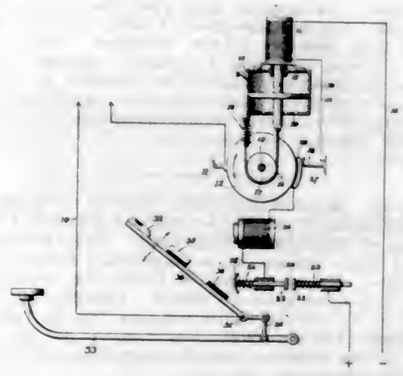


A powder duster comprising an elongated brush back having bristles extending therefrom, and openings extending therethrough, a housing removably supported by said brush back for containing a supply of powder, staggered baffle walls within said housing for disintegrating the powder upon shaking the duster, a plate slidably mounted on said brush back having openings therein for register with openings in said brush back, spring means acting upon said plate to normally disposed the openings therein out of registration with the openings in said brush back, and a manipulating element extending from said plate to the exterior of said housing by which said plate may be moved against the action of said spring upon manual depression of said manipulating element to cause registration of said openings to allow powder from said housing to freely pass to said bristles.

1,690,023. CODE-SENDING APPARATUS. LOUIS J. LEVY, Jersey City, N. J. Filed Jan. 14, 1928. Serial No. 246,733. 10 Claims. (Cl. 178—79.)

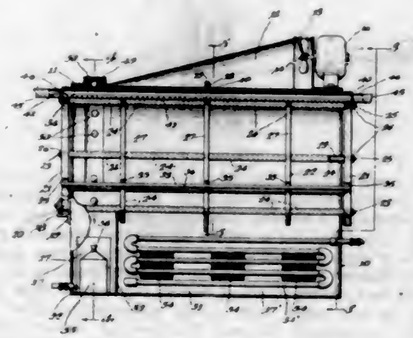
1. In an apparatus for transmitting code signals, a relay circuit including a common wiper contact element mounted for movement in a defined path and a character-forming contact element normally disposed out of the path of movement of the wiper contact element and manually swingable into the path of movement thereof; a circuit including in series electrical means for moving the wiper contact element in one direction and electrical means for holding the character-forming contact element when moved into the path of movement of the wiper contact element, a

normal'y open switch in said circuit operable by the movement of the character-forming contact element into the path of movement of the wiper contact element to close



the circuit, and a second switch in said circuit operable to break said circuit after the wiper contact element has completely moved over the character-forming contact element.

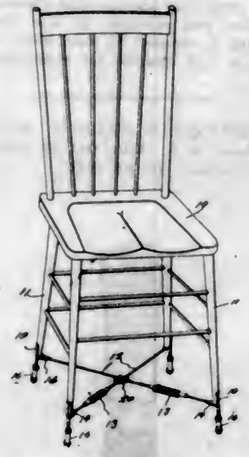
1,690,024. DRYING MACHINE. GEORGE A. LEWIS, Chicago, Ill. Filed Aug. 25, 1926. Serial No. 131,499. 4 Claims. (Cl. 34—5.)



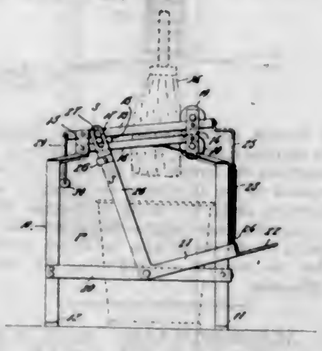
1. A drying machine of the class described comprising a body, a skeleton carriage, means for rotating the skeleton carriage, a plurality of clothes containing baskets, means for removably associating the baskets with the skeleton carriage for passage through the skeleton carriage, and means for subjecting the clothes contained within the baskets to a heating element during their passage through the skeleton carriage.

1,690,025. CHAIR ATTACHMENT. GEORGE WILLIAM LOVERIDGE, Republic, Wash. Filed June 11, 1927. Serial No. 198,164. 1 Claim. (Cl. 155—197.)

A chair attachment of the character described comprising a pair of tie rods adapted to be arranged diagonally between the legs of the chair, a turnbuckle included in the length of each rod, each rod terminating to provide a relatively broad extremity upon which the adjacent leg of the chair is adapted to repose, each extremity having a central opening adapted to receive a fastening element for securing the leg thereto, an extension rising from the extremity and substantially V-shaped in cross section and adapted to engage the outer surface of the adjacent leg, a threaded portion depending from the extremity to one side of said opening and in align with said extension, and an adjustable foot associated with said threaded portion.



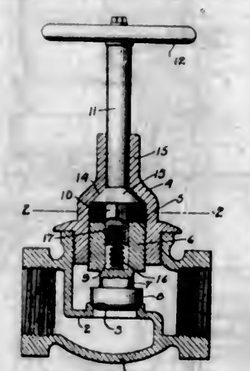
1,690,026. WRINGER. JOSEPH B. MISKEWICZ, Pittsburgh, Pa. Filed July 27, 1927. Serial No. 208,843. 1 Claim. (Cl. 15—262.)



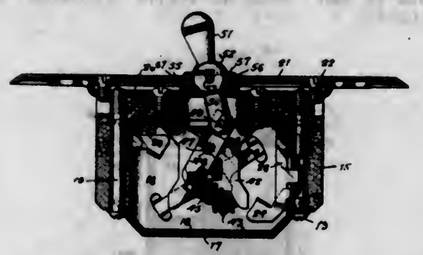
In a wringer, a frame comprising legs, inwardly offset vertically disposed extensions at the top of said legs, means including spaced parallel inclined bars connecting said extensions at opposite sides of the frame and defining guide bars, vertically spaced rollers mounted at one end of the guide bars, a roller having its trunnions mounted between the guide bars and movable to engage both of the first mentioned rollers, a pivotally mounted foot operated yoke, means to yieldingly hold the yoke elevated, and arms extending from the yoke and engaging the trunnions of the movable roller to cause the latter to move in a direction toward the spaced rollers when the yoke is depressed.

1,690,027. VALVE. FRANK O. NELSON, Tekoa, Wash. Filed Apr. 2, 1926. Serial No. 99,338. 1 Claim. (Cl. 251—47.)

A valve of the class described comprising a body having a valve seat therein, a bonnet detachably connected with the body and having an internally threaded part and a reduced tubular upper part, a valve member having its lower end shaped to engage the seat with external threads on its upper part engaging the threads in the bonnet, a handle having its stem guided in the tubular upper part and passing into the bonnet, the inner end of the stem being of rectangular shape and the valve member having a similarly shaped socket for slidingly receiving said end, said end having a socket therein, a frusto-conical part on the stem and a similar shaped part in the bonnet engaged by the same and a spring in the valve member and engaging the socket in the inner end of the handle stem for holding the conical parts in engagement.

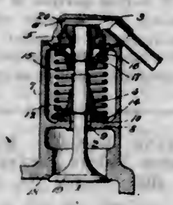


1,690,028. ELECTRIC SWITCH. ARVID H. NERO, New Britain, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 21, 1922. Serial No. 538,271. 3 Claims. (Cl. 200—172.)



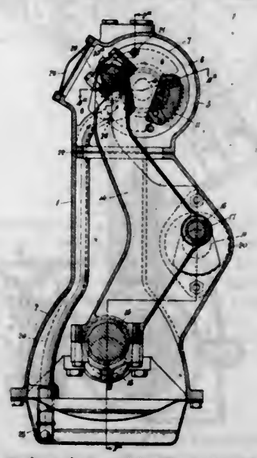
1. In an electric switch, an insulating body, a bridge mounted thereon and provided with bearings, a switch mechanism, a thumb lever having a freely detachable operating association with said mechanism and freely pivoted on said bridge bearings, in combination with a cover plate and a readily detachably retaining member underlying the latter and covering said lever bearing on the bridge.

1,690,029. VALVE GUIDE. WARREN NOBLE, Detroit, Mich. Filed Mar. 10, 1927. Serial No. 174,294. 6 Claims. (Cl. 123—90.)



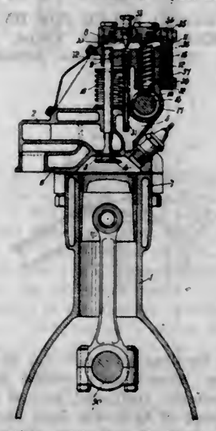
6. In combination with a poppet valve having a spherical seating face and a corresponding valve seat having a counterpart face, a two-point guide device including a guide having universal connection with the stem of said valve remote from the head thereof, a further guide device towards the head of the valve, including a universal connection providing a fixed point about which said valve may swing to accommodate lateral change of location of said valve seat relative to said first mentioned guide device, said further guide being movable with said valve stem, and yieldable means tending to maintain said further guide against axial distance.

1,690,030. INTERNAL-COMBUSTION ENGINE. WARREN NOBLE, Detroit, Mich. Filed Apr. 11, 1927. Serial No. 182,668. 19 Claims. (Cl. 123—90.)



2. In an engine, in combination, a detachable cylinder head structure, a crankshaft in the lower part of said engine, a camshaft mounted in said cylinder head structure, and camshaft driving means comprising camshaft gearing in said cylinder head structure, a crank operably connected to said gearing, a corresponding crank on said crankshaft, a further crank mounted in said engine offset from a plane extending through said first mentioned crank, and a connecting rod coupling all of said cranks together for synchronous operation.

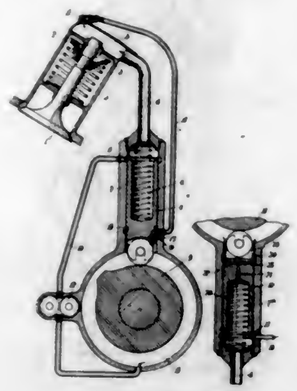
1,690,031. VALVE-OPERATING SYSTEM. WARREN NOBLE and LEON V. PITTMAN, Detroit, Mich.; said Pittman assignor to said Noble. Filed Apr. 14, 1927. Serial No. 183,710. 10 Claims. (Cl. 123—90.)



2. In combination with a cylinder head structure of an internal combustion engine, having chambers for the circulation of cooling fluid therethrough, a self-contained

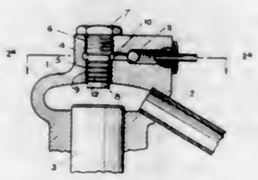
valve actuating system incorporated in said structure, said system including hydraulic valve-lifting means, a camshaft operating said valve-lifting means, said valve-lifting means being connected for fluid supply with a cooling chamber of said cylinder head, and a pump circulating hydraulic fluid to said valve actuating means through said cooling chamber.

1,690,032. HYDRAULIC VALVE GEAR. WARREN NOBLE and LEON V. PITTMAN, Detroit, Mich.; said Pittman assignor to said Noble. Filed Apr. 25, 1927. Serial No. 186,275. 5 Claims. (Cl. 123—90.)



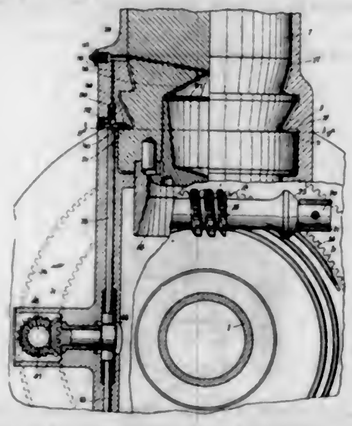
1. In combination with a puppet valve, valve closing means, valve actuating means, including a hydraulic fluid casing to the interior of which the stem of said valve is exposed, an actuator cylinder forming part of said casing, said cylinder having a fluid supply port therein, means supplying fluid under pressure through said port to said cylinder, valve actuating plunger reciprocable in said cylinder, plunger operating means, and a relief conduit extending from a region of air accumulation in said casing, said fluid supply port and the outlet of said relief conduit being closed by said plunger when it is in a valve-unseating position, substantially as described.

1,690,033. AIR-BLEED VALVE FOR HYDRAULIC ACTUATING MEANS. WARREN NOBLE, Detroit, Mich. Filed Apr. 25, 1927. Serial No. 186,556. 4 Claims. (Cl. 137—69.)



3. Means for bleeding air from the fluid casing of a hydraulic system, comprising a walled annular passage the walls whereof are restricted beyond an extent permitting free passage of hydraulic fluid therebetween, said passage opening from a region of air accumulation in said casing, and a non-return outlet valve for said passage.

1,690,034. VARIABLE PROPELLER. WARREN NOBLE, Detroit, Mich. Filed Apr. 27, 1927. Serial No. 187,048. 14 Claims. (Cl. 170—163.)



1. In a variable pitch propeller means for applying to each blade a force opposite in sense to its centrifugal component, said means comprising a hydraulic pump actuating against each blade in a direction opposite to its centrifugal component, and pump operating mechanism.

1,690,035. LIQUID CONTAINER. AUGUSTINE G. O'NEILL and CLARENCE M. JONES, Tulsa, Okla. Filed Feb. 16, 1927. Serial No. 168,776. 12 Claims. (Cl. 215—1.)

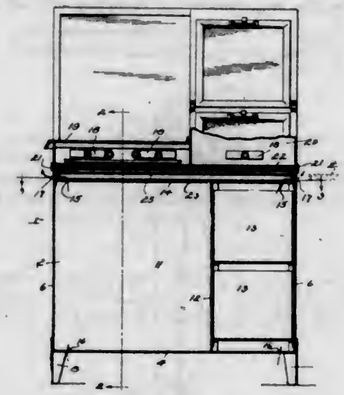


1. A container of the character described, comprising an upright hollow portion having a bottom, said bottom having an outwardly extending continuous marginal flange formed with its outer edge portion inclined upwardly and outwardly, thus producing an external trough, said upright hollow portion of the container having an external flange at its upper end formed with a depending continuous lip at its outer edge, said lip being located directly above the external trough at the lower end of the upright portion of said container.

1,690,036. COOKING RANGE. MORTIMER LEONARD PACKER and JAMES MARTIN PACKER, Columbus, Ohio. Filed Oct. 21, 1925. Serial No. 64,024. 1 Claim. (Cl. 126—37.)

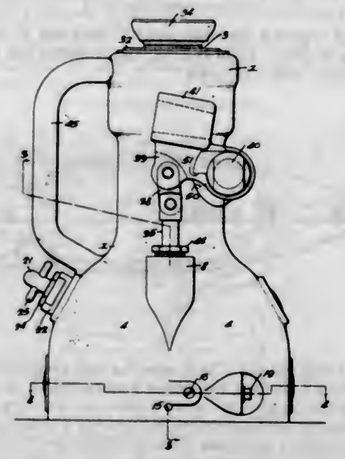
In a combination kitchen range, a cabinet section, a superposed range section, said range section being spaced from said cabinet section to provide a heat dissipating

chamber between said sections, passages leading from said cabinet section into said chamber, and passages establishing communication from said chamber to the



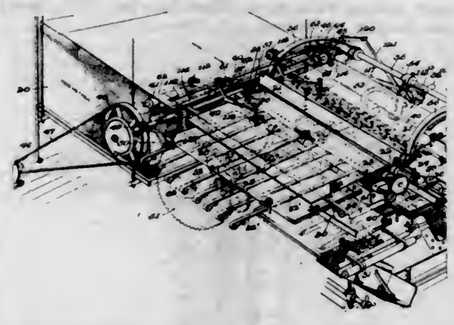
atmosphere, a table structure slidably mounted within said chamber to assume active and inactive positions, said table being so formed or placed within said chamber that air is permitted to circulate through said chamber.

1,690,037. FLUID-ACTUATED JACK. THOMAS W. PEDERSEN, New York, N. Y., assignor to Oil Jack, Inc., New York, N. Y., a Corporation of New York. Filed June 1, 1925. Serial No. 34,100. 4 Claims. (Cl. 138—9.)



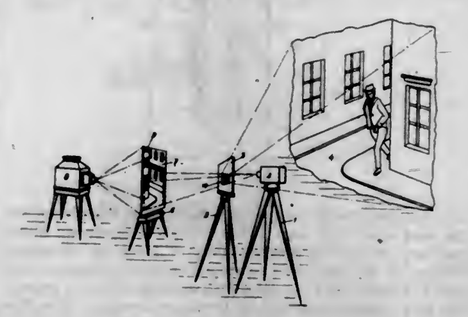
1. A fluid operated jack comprising an integrally formed reservoir, base, main cylinder and pump cylinder; a movable stem in said main cylinder having an enlarged portion in the cylindrical surface of which are formed slots to permit free passage of fluid from one side thereof to the other; a threaded collar screwed into a recess in the outer end of the main cylinder and slidably fitting said stem thereby acting jointly as a guide therefor and as a stop for limiting its travel by engagement with said enlarged portion; a plunger in the pump cylinder; and means for controlling the flow of fluid from the main cylinder to the reservoir.

1,690,038. FOLDING MACHINE. EARL D. RADER, Bedford Township, Westchester County, N. Y., assignor to Dexter Folder Company, New York, N. Y., a Corporation of New York. Filed Nov. 24, 1925. Serial No. 71,167. 29 Claims. (Cl. 270—67.)



1. In combination, a reciprocatory folding blade, means for feeding and positioning successive sheets under said blade, a looper attachment positioned adjacent said first-fold mechanism and receiving the signature therefrom and forming a second parallel fold therein, means for preventing the folded sheet from being operated on by said looper mechanism, and a third folding mechanism receiving the sheet from said looper mechanism and giving the same a third fold.

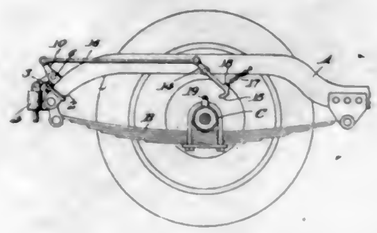
1,690,039. ART OF MAKING MOTION PICTURES. EUGEN SCHÜFFTAN, Berlin-Wilmersdorf, Germany. Original application filed Sept. 15, 1923, Serial No. 663,011, and in Germany Sept. 13, 1922. Divided and this application filed Sept. 5, 1925. Serial No. 54,731. 5 Claims. (Cl. 88—16.)



1. The art of making composite motion pictures of a set or scene and a second set or scene which is complementary to the first set or scene which comprises disposing the first set or scene within range of a camera, masking a portion of said first set or scene with a reflecting surface mounted on a transparent member having a greater area than the reflecting surface, photographing the unmasked portion of the first set or scene directly through the transparent member on a series of frame of a film while masking those portions of the frame which are unaffected by the light rays, arranging the complementary set or scene so that an image of said set or scene will be reflected into the camera, setting and adjusting the image of the complementary set or scene with the image of the first set or scene on the frame so that the images will form a composite coordinated image and then photographing the reflected image of the complementary set or scene on the

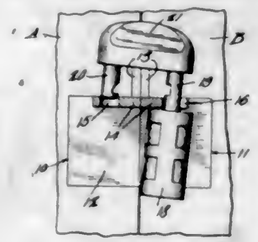
same successive frame in the camera, while masking those portions of the frame which have been previously affected by light rays, and blending the meeting edges of the images into each other.

1,690,040. AUTO AXLE-FRAME LOCK. LORENZ SOSDIAN, Asbury Park, N. J. Filed May 20, 1927. Serial No. 193,006. 5 Claims. (Cl. 254—133.)



1. In a jacking device for motor vehicles, an eyed member secured to the axle housing of the vehicle, means pivotally secured to the frame and adapted to be received in said eyed member for connecting the frame with the axle housing, means engageable by a lifting means for arranging the hook in the eyed member, and spring means for disengaging the hook upon releasing the lifting means.

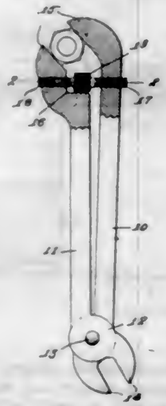
1,690,041. SECURING DEVICE. JOHN V. SUNDQUIST, Norwood, Mass. Filed June 8, 1925. Serial No. 35,741. 2 Claims. (Cl. 70—108.)



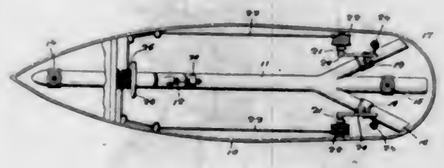
1. In combination, a padlock having its shackle including long and short legs connected by a relatively heavy and large head, and butt members of plate-like formation adapted to be secured to relatively movable elements, said butt members being recessed into meeting edges of a member and closure whereby to be non-removable, including outstanding ledges, one ledge having a hole and the other an open ended slot therein, the hole being adapted to receive the short leg of the shackle and the slot being adapted to receive the long leg thereof, the head engaging upon the top of the ledges and the lock body engaging against the undersides thereof, whereby the lock when fastened will fit closely about and against the ledges to prevent the leaving of cracks of sufficient size to permit the insertion of prying tool, and whereby the lock will be immovable with respect to the butt members.

1,690,042. WRENCH. WALTER C. WALLIS, Clovis, N. Mex. Filed Feb. 16, 1926. Serial No. 88,621. 1 Claim. (Cl. 81—77.)

A wrench comprising pivotally connected handle members provided with oppositely disposed jaw faces, one of said handle members being provided with a cut-out portion adjacent the jaw face therefor, shanks threaded within the handle members, an enlarged elongated portion carried upon the inner end of one of the shanks and disposed within the cut-out portion of the particular handle member, said portion being provided with a socket opening within the free end thereof and including beveled peripheral edges communicating therewith, the adjacent end of the remaining shank reposing within said socket, and a pivot pin passing through said end and the opposed side walls of the enlarged portion to permit relative adjustment to the handle members and to relieve binding action at the juncture of association of the respective shanks.

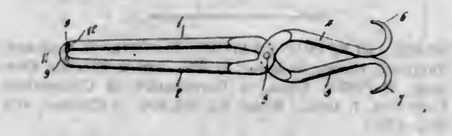


1,690,043. BOAT PROPULSION. WALTER C. WALLIS, Clovis, N. Mex. Filed Feb. 18, 1927. Serial No. 169,287. 1 Claim. (Cl. 115—16.)



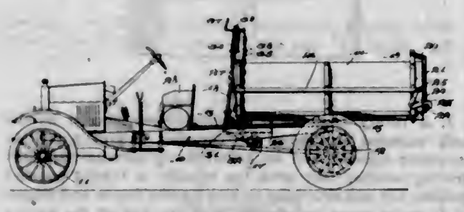
In a vessel having a hull, steering and propelling means comprising a conduit extending longitudinally of the hull and having both ends open, valves at the forward and rear ends of the conduit for controlling passage of water therethrough, a propeller located within the intermediate portion of the conduit, means for driving the propeller, branch conduits communicating and connected with the first named conduits at an intermediate point in advance of the rear valve, gate valves located within said branch conduits, spring pressed pivoted levers connected with said gate valves, winding drums located adjacent said levers and connected therewith, a control windlass located at a remote point and provided with manual turning means, and flexible members trained and wrapped about and upon said windlass, trained over guide pulleys and secured to and wrapped about said drums whereby one or the other of said gate valves may be opened and the other closed from the remote point.

1,680,044. VETERINARY OBSTETRICAL FORCEPS. HUBERT ZINS, Wabasso, Minn. Filed Nov. 3, 1927. Serial No. 230,815. 6 Claims. (Cl. 128—324.)



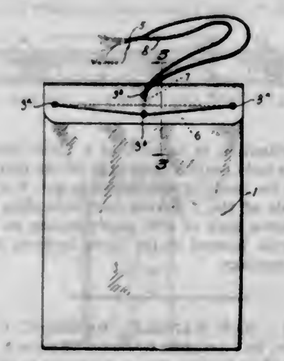
1. A forceps comprising a pair of pivotally connected jaws provided at their front ends with beaks, the beak of one jaw extending therefrom in the direction of the other jaw, and the beaks being adapted to occupy an overlapping relation when the jaws are closed.

1,690,045. DUMP BODY. FRANK R. ALLEN and HENRY M. CHAMPION, Pine Bluff, Ark. Filed June 23, 1926. Serial No. 118,020. 4 Claims. (Cl. 298—19.)



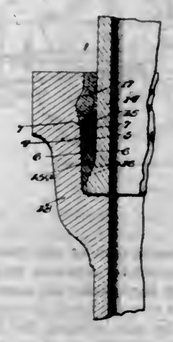
1. In a dump wagon including a rearwardly tiltable body having a lower forward shoe, a dumping lever fulcrumed adjacent to its lower end and normally upstanding in an approximately vertical position along the front of the body, a flexible connection between the upper portion of the lever and the body and including a spring, said lever having a rearward extension below its fulcrum, and a roller carried by said extension and engaging the shoe of the body.

1,690,046. RECEPTACLE. LUCY COTTON AMENT, New York, N. Y. Filed July 21, 1927. Serial No. 207,511. 6 Claims. (Cl. 229—68.)



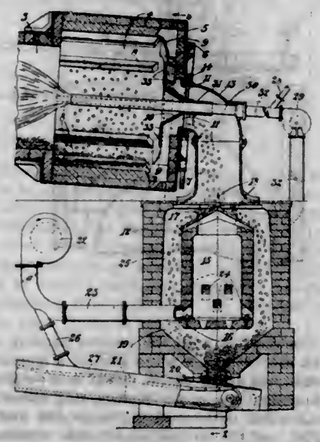
1. A bag having front and back walls, two pairs of apertures near the top edge thereof, a line joining the apertures of one pair intersecting a line joining the apertures of the other pair, a tie threaded through one pair of apertures forming a strand therebetween, and through the other pair forming a second strand overlying that portion of the first stand lying between the first mentioned apertures.

1,690,047. JOINT CONSTRUCTION. FRED C. ARMBRUSTER, Shreveport, La., assignor to The Southwestern Pipe Joint & Engineering Co., Birmingham, Ala., a Corporation of Alabama. Filed Sept. 23, 1926. Serial No. 137,314. 3 Claims. (Cl. 285—115.)



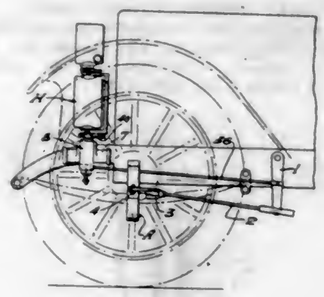
1. A joint of the bell and spigot type having a fibrous packing, an elastic ring above said packing including a body portion and divergent wings extending upwardly from the body portion, a tapered lead expanding strip positioned between the divergent wings, and a sealing ring of cast lead above said expanding strip.

1,690,048. ROTARY KILN AND FURNACE. JOHN HENRY BENTLEY, M'sterton, England. Filed Sept. 9, 1926, Serial No. 134,545, and in Great Britain Jan. 8, 1926. 6 Claims. (Cl. 263—32.)



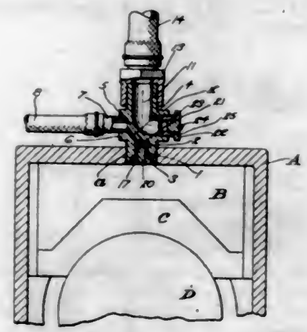
1. In a rotary kiln or furnace having a preliminary cooling chamber between the sintering zone and a central discharge orifice the combination with lifting ducts at the end of the cooling chamber having scoop like openings at its circumference, of a delivery cone provided by a conical or inclined guide closing their inner ends to the interior of the kiln and opening them to the exterior, substantially as specified.

1,690,049. STEERING GEAR FOR AUTOMOBILES. GEORGE W. BIRD, Great Falls, Mont. Filed Oct. 12, 1926. Serial No. 141,158. 5 Claims. (Cl. 280—90.)



5. A stabilizing mechanism of the class described comprising a shaft supported for rotation, hydraulic means coacting with said shaft for holding the same against rotation upon undue shock, an element freely mounted on said shaft, and means carried by said element for locking it to the shaft for rotation therewith.

1,690,050. SAFETY ATTACHMENT FOR JOURNAL BOXES. EDWARD M. BLAIR, Thomasville, N. C., assignor of one-half to Harrison H. Foust, High Point, N. C. Filed Aug. 8, 1927. Serial No. 211,601. 4 Claims. (Cl. 246—169.)

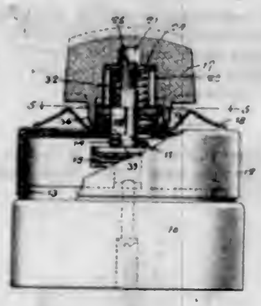


1. The combination with the journal housing of a railway car, an air-line and a water-line, of a member having a water outlet and an air outlet, one of said outlets opening into the housing, means for maintaining communication between the water outlet and the water-line and between the air outlet and the air-line, and fusible closures for the water outlet and the air outlet respectively.

1,690,051. PUNCTUREPROOF COMPOSITION FOR PNEUMATIC TIRES. ERNEST E. BOARD, White Lake, S. Dak. Filed Apr. 11, 1927. Serial No. 183,008. 1 Claim. (Cl. 134—17.5.)

A puncture-proof composition for inner pneumatic tires containing 1 part bran, 1 part of flaxseed meal, 2 parts of corn syrup and 2 parts of an anti-freeze solution containing calcium chloride 27.50% and potassium chromate 1 diluted with water to a pasty condition for introduction to an inner vulcanized pneumatic tire.

1,690,052. ELECTRIC SWITCH. JOHANNES R. CARLSON, Hartford, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Nov. 7, 1922. Serial No. 599,506. 5 Claims. (Cl. 200—172.)



1. A rotary snap switch handle comprising a handle body recessed to receive the threaded end of a switch-operating spindle, and an eccentrically arranged spindle-driving member fast with the spindle, a tapped member slidable but non-rotatable in said handle recess and adapted to make screw connection with the end of the switch spindle, an abutment member secured to the handle, a spring interposed between said abutment and tapped member and stressed by the attaching engagement of the spindle with said tapped member and the incidental displacement of the latter toward the abutment, said eccentrically arranged spindle-driving member entering and engaging a handle element for rotation with the handle in both directions, said engagement being automatically effected in predetermined relative positions of the part by the movement of the handle toward the spindle.

1,690,053. LEVEL. RICHARD C. CHARLTON, Philadelphia, Pa., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 17, 1926. Serial No. 148,928. 3 Claims. (Cl. 33—211.)

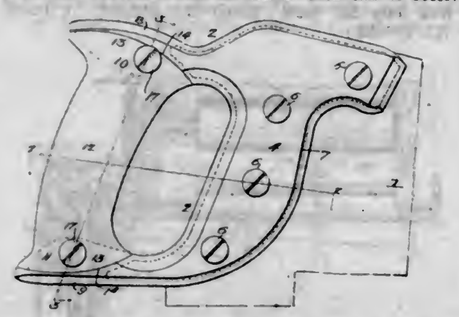


1. The combination in a level, of a frame made of T-shaped bars; a body portion consisting of two plates spaced apart; means for securing the plates to the T-web of the bars, the heads of the T-shaped bars extending laterally beyond the plates, each of said plates having an opening; and a spirit tube located in the space between the plates opposite the openings.

1,690,054. SAW HANDLE. RICHARD C. CHARLTON, Philadelphia, Pa., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 8, 1926. Serial No. 153,338. 2 Claims. (Cl. 145—113.)

1. The combination in a handle for hand-saws, of a body portion made in two parts secured together and to a saw-blade, each part being made of metal and being hollow;

upper and lower horns projecting rearwardly from the body portion and having tongues; a hand-grip located between the two horns and slotted at each end to receive



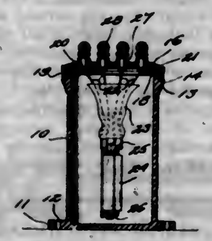
the tongues; and transverse screws extending through each end of the hand-grip and through the two-part tongues, clamping the parts firmly together.

1,690,055. PLOW. MCGINNIS CHURCHILL, Murray, Nebr. Filed Nov. 11, 1927. Serial No. 232,649. 3 Claims. (Cl. 97—59.)



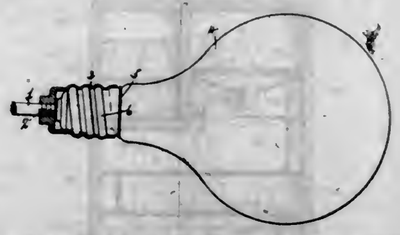
1. An agricultural implement comprising a frame, a wheel carried thereby, said frame comprising a pair of handle bars and a pair of beam carrying members, the beam carrying members being arranged at rightangles to each other with the handle bars between the two members, plow beams reemovably connected with the members, means for detachably connecting plows with the beams, the other ends of the beams being reduced, one beam having a long reduced portion and clamping means associated with the handle bars for engaging the reduced ends of the beams.

1,690,056. RENEWABLE-FILAMENT LAMP. MELVIN VANCE COLEMAN, Cumberland, Md. Filed May 15, 1926. Serial No. 109,367. 1 Claim. (Cl. 250—27.5.)



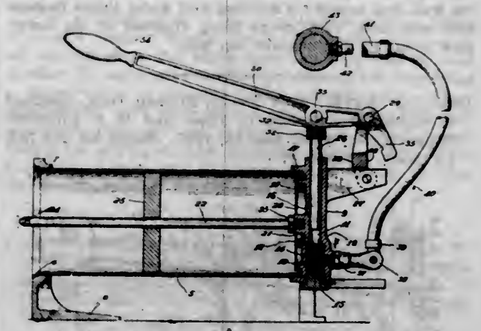
In a renewable filament vacuum tube, a bulb of glass having one end open and formed with a thickened reinforcing portion provided with a seat, a cover of insulating material telescopically engaged with said seat, gasket means between the cover and the seat, a plurality of terminal elements rigidly secured to and carried by the cover, a filament, a grid and a plate electrode located within the bulb and supported by conductors connected with said terminal elements, said cover having a casing provided with an inwardly closing check valve and with means for attachment of a vacuum pump thereto.

1,690,057. FLOAT BALL. PAUL H. COLEMAN, Lynch, Ky. Filed July 12, 1927. Serial No. 205,144. 2 Claims. (Cl. 137—104.)



2. In a device of the character described, in combination, a glass float bulb, said bulb having a partial vacuum created therein, said bulb having a screw shank, and a standard electric bulb socket in which said shank screws, and a threaded float rod to which said socket is threaded.

1,690,058. LUBRICANT COMPRESSOR. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 27, 1923. Serial No. 634,970. 12 Claims. (Cl. 221—47.1.)



7. A lubricant compressor comprising a low pressure cylinder open to atmosphere, a high pressure cylinder communicating with said low pressure cylinder, a plunger for completely displacing the contents of said high pressure cylinder, a check valve forming the wall of the discharge end of said high pressure cylinder, said valve being adapted to be opened by contact with said plunger to produce substantially complete displacement of the contents of said cylinder upon each stroke of said plunger.

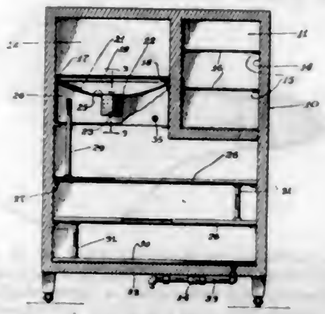
1,690,059. HARD COURT FOR TENNIS AND THE LIKE. GERARD JOHANNES EILERS, Amsterdam, Netherlands. Filed Feb. 9, 1928, Serial No. 253,188, and in the Netherlands Jan. 6, 1927. 1 Claim. (Cl. 94—19.)



A construction for a tennis court or the like comprising a bottom layer of coarse, granulated blast furnace slags having a rough surface and many projecting parts,

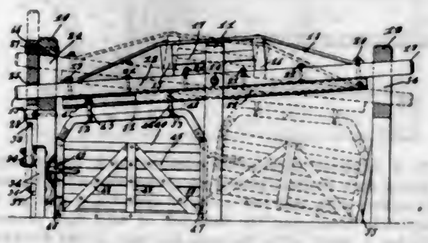
and a top layer interlocking with said bottom layer and including a mixture of finer, sifted, granulated blast furnace slags of the same general character as the bottom layer and a binder of powdered brick dust.

1,690,060. REFRIGERATOR. MISSOURI ELLIS, Chicago, Ill. Filed Jan. 28, 1927. Serial No. 164,293. 1 Claim. (Cl. 62—39.)



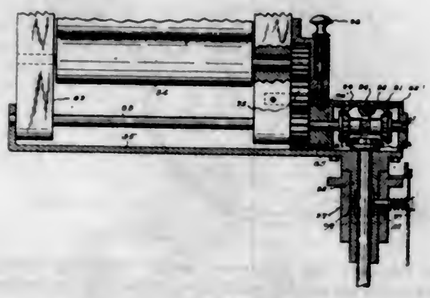
In combination with a refrigerator having an ice receiving compartment, a tank in said compartment having a concave top wall, a substantially flat plate mounted over said concave wall and adapted to support ice in said compartment, said plate having a plurality of perforations formed therein through which water from the melting ice may flow into the concave portion of said top wall, and means for filtering said water before passage into said tank, said means being disposed at the lowermost point in said concave top wall.

1,690,061. GATE. JACK EVANS, Braman, Okla., assignor of one-half to Nathan L. Jones and B. I. Litowich, Salina, Kans. Filed Aug. 13, 1927. Serial No. 212,799. 1 Claim. (Cl. 39—67.)



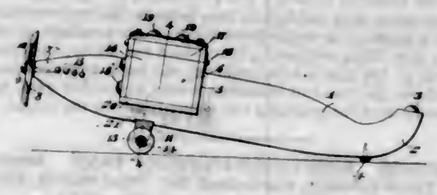
In a gate, a gate structure, a pair of central posts arranged in spaced relation with respect to each other, a rockable beam pivoted between said posts, a guide frame for said beam and including standards secured to said beam and rising therefrom, a brace bar arranged between the posts below their upper ends and connected to the standards intermediate the ends thereof, bracing means secured to the standards and top of said beam respectively, a track-way secured to the underside of said beam, rollers having connection with said gate structure and mounted in the track-way for movement in a substantially horizontal plane, side posts having slots therein to accommodate the ends of said beam, a vertical slide slotted for receiving one end of said beam to operate the latter and being mounted for movement on one of said side posts, means connected to the vertical slide to move the same for tilting the beam and means connected to the other side post and being adapted to receive the gate structure to hold the same at an inclination when open.

1,690,062. FOLDABLE WRINGER. JOHN J. GROBEN, Philadelphia, Pa. Original application filed July 22, 1922, Serial No. 576,827. Divided and this application filed July 20, 1923. Serial No. 652,802. 1 Claim. (Cl. 68—32.)



A foldable wringer comprising a laterally extending supporting bracket, a gear box on said bracket, a bearing hub integral with and depending at right angles from said bracket, a stationary bearing sleeve, said bearing hub being rotatably adjustable in said bearing sleeve, a drive shaft disposed in said hub, means co-operable between the bearing sleeve and the hub for holding the head in different selected positions and retaining the wringer against rotation about the drive shaft, a bevel gear secured to the upper end of said drive shaft and extending into said gear box, a laterally extending driven shaft rotatably supported in said gear box, a pair of bevel gears on a portion of said driven shaft located in said gear box, means for shifting the gears on the driven shaft, a vertical spring influenced plunger with means to retain said wringer frame in a selected position, and a pinion on said driven shaft between said gear box and wringer frame for maintaining a constant mesh with and driving a set of wringer gears.

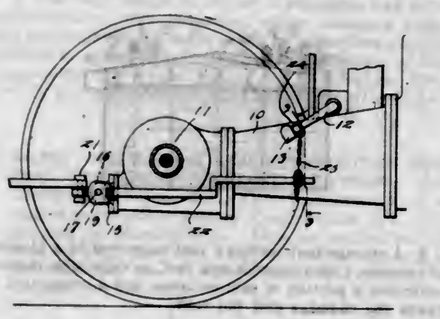
1,690,063. COMBINED CONTAINER AND SUPPORT. CHARLES W. HALL, Valparaiso, Ind. Filed Aug. 2, 1926. Serial No. 126,626. 6 Claims. (Cl. 211—71.)



1. A container support comprising a flat bar disposed on its lower longitudinal edge and formed with a cut-out portion opening at the upper longitudinal edge of the bar and providing a socket forming means for receiving and securing a container to the bar, and a supporting carriage of the wheeled type having its top edge, intermediate its ends, secured against said lower longitudinal edge directly below the base of said socket forming means, the wheels of said carriage disposed laterally with respect to each side face of the bar.

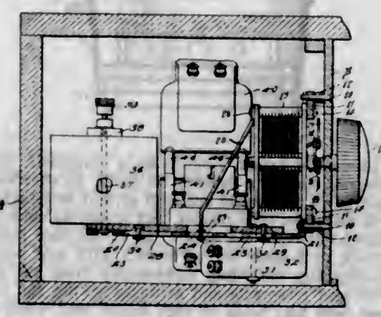
1,690,064. ANTIREARING ATTACHMENT FOR TRACTORS. WILLIAM HAYES, Big Hill, Ky. Filed Dec. 18, 1926. Serial No. 155,738. 2 Claims. (Cl. 180—82.)

1. A tractor hitch comprising a plate adapted to be applied to the housing of the rear axle of the tractor at a point below the axle, said plate having spaced ears, a clevis plate having spaced ears lying against the outer surfaces of the first mentioned ears, a pivot bolt passing through all of the ears and bridging the space between them, an arm fixed to one of the ears of the clevis plate and disposed transversely under the housing and flexible means loosely connecting the free end of said arm with



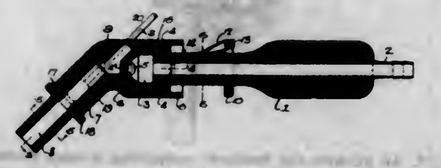
the clutch lever of the tractor and permitting limited angular movement of the clevis plate and tractor without actuation of the clutch lever to thereby compensate for angular displacement during passage of the tractor over rough surfaces.

1,690,065. SUPPORTING FRAME FOR INSTRUMENTS OF RADIO SETS. GUSTAV V. HEDSTROM, Kenosha, Wis. Filed Nov. 14, 1925. Serial No. 69,063. 4 Claims. (Cl. 250—14.)



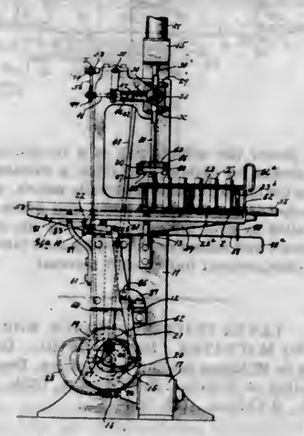
1. Radio apparatus comprising a panel, spaced bars supported on said panel in the rear thereof and relatively close thereto, condenser means connected to said bars, fastening elements securing said bars to the panel, brackets secured to one of said bars by certain of said fastening elements and extending rearwardly of the bars and condenser, and spaced socket-supporting plates on said brackets.

1,690,066. BATTERY-FILLING DEVICE. WALTER E. HOLLAND, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 4, 1921. Serial No. 474,895. 3 Claims. (Cl. 226—39.)



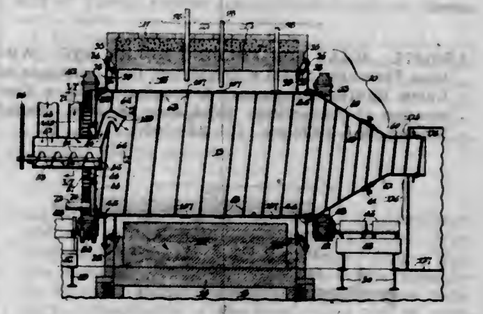
1. The combination in a battery filling device of a tubular handle having a delivery nozzle made of electrolyte-proof insulating material; electrolyte-proof metallic conductors carried by said nozzle and terminating in the same plane at the delivery end thereof; with insulated conductors imbedded in the material of the nozzle and having their metallic portions surrounded by and enclosed within said terminal conductors.

1,690,067. FILLING MACHINE. CHARLES S. WEEKS, South Orange, N. J., assignor to George W. Smythe and Thomas D. Osbourne. Filed Dec. 23, 1921. Serial No. 524,338. 19 Claims. (Cl. 226—95.)



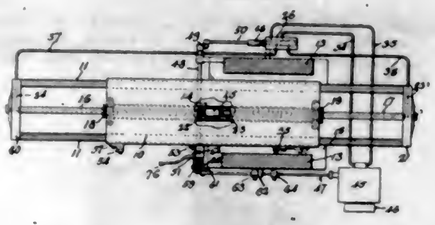
1. In a filling machine, the combination with a filling tube of a member movable relatively thereto, and a cut-off separate from the filling tube and supported by said member for movement therewith, said cut-off embodying a plurality of co-operable parts movable into contact substantially with each other below said filling tube and said filling tube and said co-operable members being positioned for wiping contact with the exterior surfaces of said filling tube on the movement of said member and the cut-off relatively to said filling tube.

1,690,068. PROCESSING APPARATUS. FREDERICK W. ECKFELDT, Norristown, Pa., assignor to John T. Lewis & Bros. Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 3, 1927. Serial No. 223,830. 15 Claims. (Cl. 263—34.)



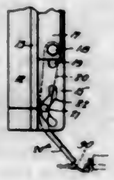
15. A processing apparatus of the character described comprising a rotating horizontal drum, and an internally-attached spiral having convolutions of gradually increasing depth and gradually decreasing pitch for progression of the material being processed longitudinally of the drum.

1,690,069. HYDRAULIC DRIVE FOR MACHINE TOOLS. WALTER FERRIS, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 9, 1924. Serial No. 719,003. 13 Claims. (Cl. 60—52.)



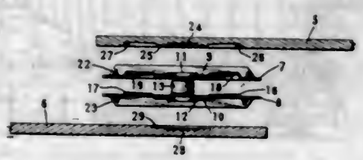
1. In a planer the combination of a reciprocating table, hydraulic means for driving said table, a variable displacement pump for operating said hydraulic means, valve mechanism interposed between said pump and hydraulic means and controlled by said table for reversing the direction of travel thereof, and means controlled by said table for varying pump displacement during said reversal.

1,690,070. LEVER-TRIPPING DEVICE FOR BOTTLE-CAPPING MACHINES. ROLAND E. HILL, Decatur, Ill., assignor to Williams Sealing Corporation, Decatur, Ill., a Corporation of Illinois. Filed Nov. 8, 1924. Serial No. 748,692. 3 Claims. (Cl. 226—81.)



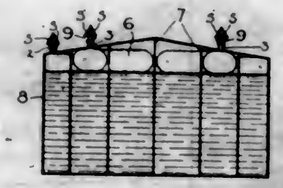
1. The combination with a guide having a slot, of a vertically movable plunger, a finger pivotally connected to the end of the plunger, a pin carried by the finger and working in the slot, said slot being curved to impart a lateral movement to the free end of the finger during its vertical movement.

1,690,071. JOINT FOR FOLDING RULES, ETC. WILLIAM FERDINAND HOERLE, Torrington, Conn., assignor to Union Hardware Company, Torrington, Conn., a Corporation of Connecticut. Filed June 18, 1926. Serial No. 116,848. 5 Claims. (Cl. 33—105.)



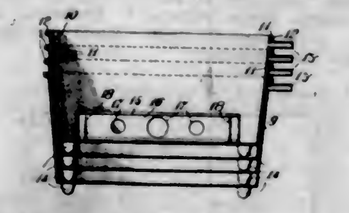
2. A joint for a folding rule, etc., comprising sheet metal members having resilient perforated diaphragms offset from the plane of said members with inter-fitting bosses and recesses and a rivet having its ends upset to connect said diaphragms.

1,690,072. RECEPTACLE FOR VOLATILE LIQUIDS. CLEON R. JOHNSON, Houston, Tex., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Nov. 13, 1924. Serial No. 749,721. 4 Claims. (Cl. 220—85.)



1. A storage tank having a roof supported by a plurality of columns, a vent through said roof, an expansible chamber encircling a portion of said columns, and a connection between the chamber and the vent.

1,690,073. PNEUMATIC TROUGH. JOSEPH H. KINCAID, Evanston, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 21, 1926. Serial No. 130,723. 1 Claim. (Cl. 220—97.)



A pneumatic trough comprising a receptacle tapering downwardly and of a substantial depth, an overflow pipe secured in an opening in one wall of said receptacle adjacent to the upper edge thereof, and extending outwardly a substantial distance for conducting excess fluid from said receptacle to a point out of contact with said wall, and supporting legs extending downwardly from the bottom wall of said receptacle and arranged within the contour thereof, said legs being of such length that when a plurality of said receptacles are nested for shipment said pipes each will be supported adjacent to but out of contact with the upper edge of the next adjacent outer receptacle.

1,690,074. ALL-WIRE-PIN FASTENER. GEORGE A. KING, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 11, 1928. Serial No. 269,208. 9 Claims. (Cl. 24—150.)

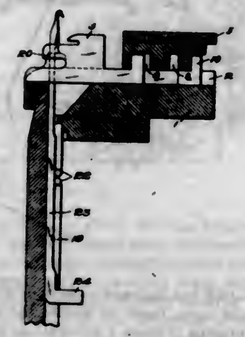


1. An all-wire pin fastener, comprising a snap fastener member and a pin member having its head formed to pivotally support said snap fastener member and to clasp it in locked position.

1,690,075. PROCESS OF ALKYLATION. CHARLES A. KRAUS and CONRAD C. CALLIS, Worcester, Mass., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Apr. 5, 1923. Serial No. 630,091. 4 Claims. (Cl. 260—11.)

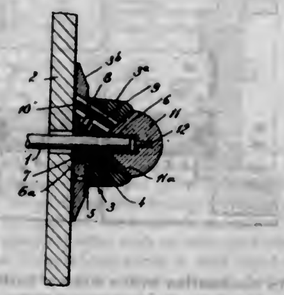
1. The improvement in the art of alkylating lead for the preparation of lead tetraethyl, which comprises subjecting plumbous chlorid to the action of magnesium and ethyl chlorid in ether, without preliminary formation of ethyl magnesium chlorid maintaining the temperature around 40° C., and finally removing the lead tetraethyl by steam.

1,690,076. MECHANISM FOR CONTROLLING KNITTING NEEDLES IN PLATING RELATIONS. JOHN LAWSON and ROBERT H. LAWSON, Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Original application filed Mar. 10, 1927, Serial No. 174,176. Divided and this application filed Jan. 3, 1928. Serial No. 244,073. 12 Claims. (Cl. 66—36.)



1. In a knitting machine having primary means for effecting normal and reverse plating, a series of independent needles and operating means therefor, to which needles two threads are adapted to be fed in a plating relation, regular sinkers or web holders for the needles respectively, and means for deflecting selected needles at the thread engaging end, with continued feeding of both threads to the selectively deflected needles, whereby auxiliary means is provided for insuring a change from reverse plating relation to normal plating relation of said threads.

1,690,077. VARIABLE CONTROL DEVICE. LOUIS G. PACENT, Winfield, N. Y., assignor to Pacent Electric Company, Inc., New York, N. Y., a Corporation of New York. Filed June 9, 1923. Serial No. 644,299. 1 Claim. (Cl. 74—7.)



A variable control device comprising an adjusting member engageable with a shaft, a swinging pivot pin pivotally connected with said member at one end, a roller journaled on the free end of said pivot pin and an adjusting knob journaled on said member and engageable with the outer rim of said roller to thereby swing the pivot pin inward to effect engagement of the inner rim of the roller with a stationary surface at the back of the adjusting member.

1,690,078. NUT AND SCREW FASTENING. WALTER H. PIERCE, Cambridge, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed July 22, 1925. Serial No. 45,281. 5 Claims. (Cl. 85—2.4.)



1. A nut and screw fastened installation comprising, in combination, a plurality of parts to be secured together, a nut unit passing into an aperture presented by one of said parts, said nut unit including an initially assembled nut and nut-holder, the nut having a screw-receiving aperture and the nut-holder having a number of resilient fingers bent inwardly to intersect the screw-receiving aperture in the nut and a screw for passage through the aperture in the nut to engage said inbent resilient fingers, thereby to expand and back-support said nut-holding part to prevent contraction thereof and secure said parts together.

1,690,079. COMPOSITE SHEET MATERIAL. WILLIAM R. SEIGLE, New York, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 5, 1921. Serial No. 505,535. 7 Claims. (Cl. 154—51.)

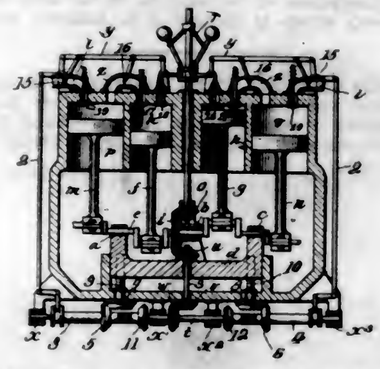
1. Sheet-roofing comprising a felt in which mineral fibres of the asbestos class predominate in quantity with a minor proportion by weight of stiff hair-like bodies interspersed therethrough, and an asphalt, substantially solid at normal weather-temperatures, occupying the interfibre voids.

4. Laminated sheet material, containing in combination a plurality of felted fibrous sheets comprising mineral fibres of the asbestos class and stiff elastic void-producing hair-like bodies interspersed among the mineral fibres, and a body of asphaltic material impregnating the said felted sheets and forming a continuous matrix from one surface to the other of the material.

1,690,080. SUPERCHARGER INTERNAL-COMBUSTION ENGINE AND METHOD OF SUPERCHARGING. MANFRED SENG, Berlin, Germany, and ANTHONY GEORGE MALDON MICHELL, Melbourne, Victoria, Australia, assignors to Michell-Crackless Engines Corporation, New York, N. Y., a Corporation of New York. Filed July 27, 1927, Serial No. 208,770, and in Germany July 15, 1926. 12 Claims. (Cl. 123—119.)

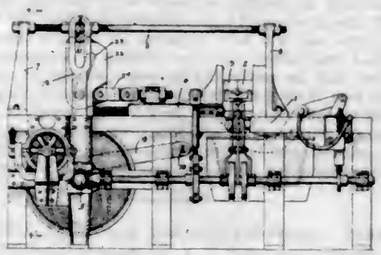
1. In a supercharger internal combustion engine, a power cylinder having a piston, a shaft operatively connected with said piston to be driven thereby, a supercharging pump connected to said shaft to be driven therefrom, means to vary the positions of the power pistons relatively

to the cylinders at the phases of minimum compression volume, means for varying the effective discharge of the said pump so as to maintain at all engine speeds a con-



stant upper limit of compression pressure in the power cylinder, and devices for simultaneously accomplishing said variations.

1,690,081. DIE-CASTING MACHINE. CHARLES J. SYKES, Chicago, Ill., assignor to Lewis J. Brainard, Chicago, Ill. Filed Sept. 2, 1927. Serial No. 217,140. 5 Claims. (Cl. 22—92.)



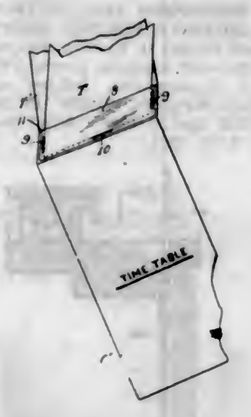
1. In a machine of the character described, a die having a movable member, a reciprocatory device movable transversely with respect to the path of said member, an element connected to said member and having a slot inclined with respect to the path of said reciprocatory member, and an actuator carried by said device and extending into said slot, the slot being so shaped that movement of said element for a given length of travel of said device is very small when the actuator is near one end of the slot as compared with the movement of said element for a corresponding length of travel when the actuator is at other points in the slot.

1,690,082. TACK-FASTENED STUD FOR SNAP FASTENERS. FRANK E. WARNER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 23, 1927. Serial No. 207,961. 4 Claims. (Cl. 24—219.)



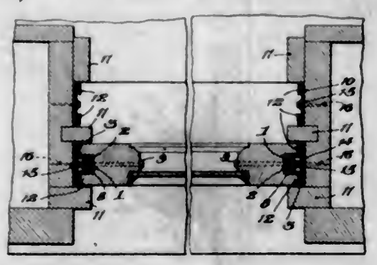
1. A snap-fastener member, having a shell and a tack-engaging member arranged within said shell and comprising a base having a hole through which the tack passes and by which it is frictionally engaged, and upstanding end members curved longitudinally and transversely to conform to the shank of the tack and converging to engage the leading end of the tack to prevent tipping.

1,690,083. COMBINED TIME-TABLE, TICKET HOLDER, AND ADVERTISING DEVICE. LEON R. WATERMAN, Flushing, N. Y., assignor to The Time Table Advertiser, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 10, 1924. Serial No. 749,080. 2 Claims. (Cl. 129—20.)



1. In a holder for railroad tickets, a folder comprising a sheet folded upon itself to divide the sheet into flaps and having printed thereon a schedule of the running time of trains and having other printed matter thereon to adapt the folder as an advertising medium, and a strip of transparent material attached to the sheet with one edge extending transversely of and contiguous to the fold for the engagement of a ticket between said strip and the folder, and said sheet arranged with a weakened portion to extend transversely and parallel to the fold and spaced from the fold a distance equal to the width of the strip whereby said flap of the folder may be readily bent laterally for the presentation of the ticket for punching to the conductor.

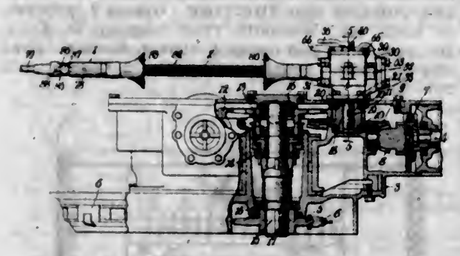
1,690,084. WINDOW CONSTRUCTION. SAM WESTERHEIM, Sioux Falls, S. Dak. Filed Apr. 20, 1928. Serial No. 271,557. 6 Claims. (Cl. 20—69.)



1. In combination with a window having a groove in its side edge and a casing having a window guide, a substantially U-shaped member in said groove having outwardly extending flanges disposed over and spaced from the said side edge of the window, curved plate springs in the U-

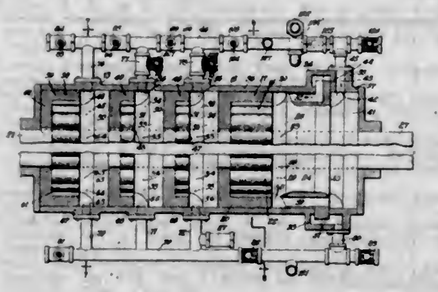
shaped member having its free edges bearing against the bottom of the member, bolts extending through the springs and member and through the window sides so as to be accessible for adjustment, a member having a base engaged with the bottom of the guide and having inturned sides, said flanges of the first member being received between the base and inturned sides of the second member, said second member having a central longitudinal hollow inwardly extending bead, a packing strip in the bead engaged with the bottom of the guide, and fasteners extending through the bead and into the casing.

1,690,085. DRILLING TOOL. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 17, 1926. Serial No. 95,400. 19 Claims. (Cl. 255—47.)



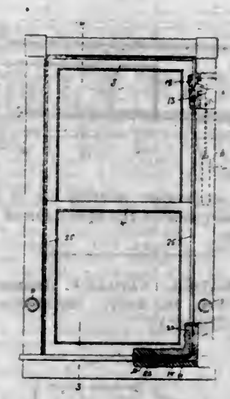
1. In a drilling tool, a power driving element adapted to be driven in opposite directions, cooperating gearing driven thereby, mechanism connecting said gearing with said driving element, said mechanism being automatically operative to prevent driving of said gearing when said driving element is driven in one direction, a transmission shaft, a clutch connecting said shaft with said gearing, a flexible transmission shaft driven by said shaft, and a drilling tool driven by said flexible transmission shaft.

1,690,086. TRANSMISSION. WILLIAM C. MILES, New York, N. Y. Filed July 11, 1923. Serial No. 650,760. 6 Claims. (Cl. 60—53.)



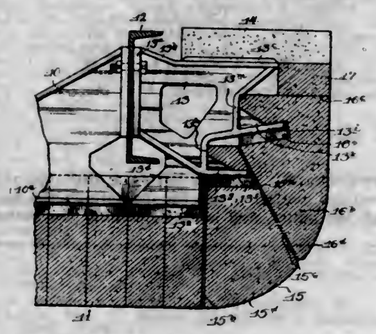
1. In a transmission, a fluid clutch unit having fluid inlet and outlet ports and comprising driving and driven members adapted to become driven and driving members, respectively, a fluid measuring device having a rotatable element connected to one of said clutch members, said measuring device being provided with an inlet port adapted to communicate with one of the ports of said clutch unit, and means operable when said driving element becomes a driven element to sever communication between the inlet port of said measuring device and one of the ports of said clutch unit and place the other port of said clutch unit in communication with the inlet port of said measuring device.

1,690,087. WINDOW SASH. ASBURY C. VOWELL, Little Rock, Ark. Filed Mar. 14, 1927. Serial No. 175,326. 6 Claims. (Cl. 20—43.)



1. A device of the character described, including a window frame and sash hung therein, and single cord for supporting said sash, and weights attached to both ends of said cord.

1,690,088. ARCH-NOSE CONSTRUCTION. SAMUEL F. BURNET, St. Louis, Mo., assignor to Laclede-Christy Clay Products Co., St. Louis, Mo., a Corporation of Missouri. Filed Oct. 17, 1925. Serial No. 63,202. 11 Claims. (Cl. 110—99.)

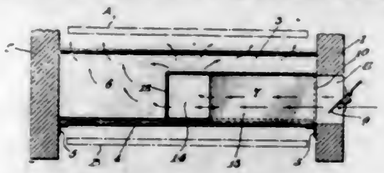


1. An arch nose supporting member having a lower horizontal tile supporting flange, an intermediate tile supporting flange extending outwardly from said member, and an upper tile supporting flange extending outwardly and upwardly from said member, said upper flange partially overlying and located above and projecting beyond said intermediate flange, said flanges being open at their outer ends and constructed and arranged to permit sliding movement of the tile into position on said flanges.

1,690,089. WIND BOX. JOHN A. CONLY, New York, N. Y., assignor of forty per cent to Joseph A. Rauscher, Hollis, N. Y. Filed Mar. 11, 1925. Serial No. 14,615. 6 Claims. (Cl. 110—40.)

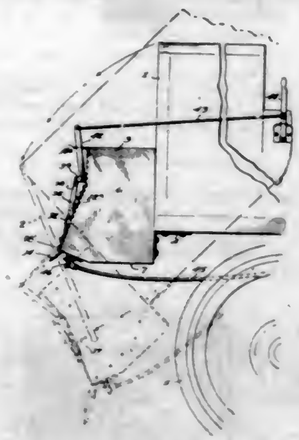
3. In combination with an endless grate or stoker mechanism having an upper and a lower run, a compartment provided between the runs thereof and entirely closed except for its top, a wind box positioned within said compartment on the bottom thereof and secured at one end to a side wall of said compartment and having one end adapted to communicate with a source of air under pres-

sure, said wind box being closed at its other end and also closed at its top, bottom and sides but provided with a plurality of openings at substantially the middle of said



grate or stoker mechanism whereby air is admitted uniformly to the under side of the upper run of said grate or stoker mechanism.

1,690,090. SPREADER. NATHAN V. HENDRICKS, Morenci, Mich. Filed Feb. 16, 1927. Serial No. 168,649. 7 Claims. (Cl. 275—2.)

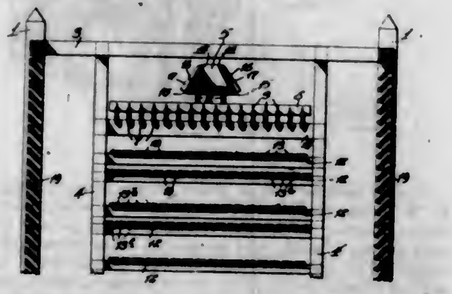


1. In a spreader, a casing having a discharge outlet, a reciprocating toothed feeder for discharging the material through the outlet, and a door guarding the outlet and vertically adjustable to regulate the size thereof, said door comprising or including a plurality of independently openable sections each normally held closed and adapted to open under a predetermined pressure.

1,690,091. PROCESS FOR EXTRACTING THE NON-SAPONIFIABLE AND DIFFICULTLY-SAPONIFIABLE MATTER FROM FATTY MATERIAL. JOSEPH K. MARCUS, New York, N. Y. Filed Apr. 30, 1927. Serial No. 188,048. 4 Claims. (Cl. 167—7.)

1. The process of extracting vitamins from fatty material, consisting in forming a viscous solid soap from said material and extracting said vitamins from the soap with ethylene dichloride.

1,690,092. WATER-DISTRIBUTING MEANS FOR COOLING TOWERS AND THE LIKE. GEORGE J. STOCKER, St. Louis, Mo.; Mercantile Trust Company, St. Louis, Mo., executor of said George J. Stocker, deceased. Filed May 14, 1924. Serial No. 713,374. 2 Claims. (Cl. 261—114.)



2. In a cooling apparatus, the combination of a series of relatively thin up-edged spaced horizontal members, a plurality of troughs disposed transversely above said horizontal members, means for supplying liquid to said troughs, said troughs having outlets vertically above said horizontal members for delivering the liquid to the latter, and flat baffle members below said horizontal members and parallel thereto for receiving the liquid from the latter.

Oct. 2, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Brick Company, Fort Worth, Tex. Brick. 247,796; Oct. 2. Class 12.

Acme Brick Company, Fort Worth, Tex. Brick. 247,806; Oct. 2. Class 12.

Addressograph Company, Chicago, Ill. Printing machines. 247,594; Oct. 2; Serial No. 265,766; published July 24, 1928. Class 23.

Akro Agate Company, The, Clarksburg, W. Va. Glass balls. 247,554; Oct. 2; Serial No. 264,797; published July 17, 1928. Class 4.

Alfred, William H. L., doing business as Eaton & Deller, London, England. Silk fishing lines. 247,635; Oct. 2; Serial No. 261,730; published July 17, 1928. Class 22.

Alianiello, Augustin, doing business as Penataquit Drug Company, Bay Shore, N. Y. Preparation for the treatment of rheumatism, sciatica, etc. 247,590; Oct. 2; Serial No. 265,823; published July 10, 1928. Class 6.

American Hair Felt Company, Chicago, Ill. Gun wadding. 247,789; Oct. 2; Serial No. 268,335; published July 24, 1928. Class 9.

Amplex Manufacturing Company, assignor to Fargo Motor Corporation, Detroit, Mich. Motor trucks and busses and their structural parts. 247,614; Oct. 2; Serial No. 264,345; published July 17, 1928. Class 19.

Andrews, Austin W., New York, N. Y. Table game. 247,589; Oct. 2; Serial No. 265,824; published July 17, 1928. Class 22.

Arcade File Works, Anderson, Ind. Files and rasps. 247,659; Oct. 2; Serial No. 267,401; published July 24, 1928. Class 23.

Arco Company, The, Cleveland, Ohio. Paint enamel. 247,729–30; Oct. 2; Serial Nos. 265,357–8; published July 17, 1928. Class 16.

Armstrong Cork Company, Pittsburgh, Pa. Linoleum, cork carpet, etc. 247,581; Oct. 2; Serial No. 266,012; published July 24, 1928. Class 20.

Arnold Bros., Chicago, Ill. Meat loaf. 247,801; Oct. 2. Class 46.

Arnold, Isaac A., Cozad, Nebr. Healing compound. 247,710; Oct. 2; Serial No. 266,182; published July 10, 1928. Class 6.

Auto Strop Safety Razor Company, Inc., New York, N. Y. Safety razors. 247,674; Oct. 2; Serial No. 267,182; published July 24, 1928. Class 23.

Autostat Limited, London, England. Thermostatically-operated parts of machines. 247,631; Oct. 2; Serial No. 262,146; published July 24, 1928. Class 23.

Ayerst, McKenna & Harrison Limited, Montreal, Quebec, Canada. Cod-liver oil. 247,645; Oct. 2; Serial No. 257,770; published July 10, 1928. Class 6.

Baird, Walter, doing business as You-Tha-Gan Company, Houston, Tex. Nerve tonic. 247,625; Oct. 2; Serial No. 262,994; published July 10, 1928. Class 6.

Balfour, Guthrie & Co., San Francisco, Calif. Insecticides. 247,540; Oct. 2; Serial No. 264,552; published July 10, 1928. Class 6.

Bankers Life Company, Des Moines, Iowa. Weekly radio program. 247,560; Oct. 2; Serial No. 266,705; published July 17, 1928. Class 38.

Barker, A. E., & Co. of California, Los Angeles, Calif. Fresh vegetables, grapes, peaches, and cantaloupes. 247,652; Oct. 2; Serial No. 256,897; published July 24, 1928. Class 46.

Barrett Company, The, New York, N. Y. Prepared shingles. 247,802; Oct. 2. Class 12.

Beauty Research Laboratories, Inc., Chicago, Ill. Skin salve preparations. 247,553; Oct. 2; Serial No. 264,748; published July 17, 1928. Class 6.

Bedrosian, Milan, doing business as Oriento Manufacturing Co., Elmira, N. Y. Cleansing preparation. 247,593; Oct. 2; Serial No. 265,775; published July 10, 1928. Class 4.

Beeman's Laboratory Inc., Atlanta, Ga. Medicinal preparation. 247,794; Oct. 2. Class 6.

BelPocchio, John, New York, N. Y. Extension tables. 247,760; Oct. 2; Serial No. 266,911; published July 24, 1928. Class 32.

Berger Manufacturing Company, The, Canton, Ohio. Publication. 247,775; Oct. 2; Serial No. 267,029; published July 17, 1928. Class 38.

Bijou Dress Co., The, New York, N. Y. Ladies' dresses. 247,804; Oct. 2. Class 39.

Blue Ridge Glass Corporation, Kingsport, Tenn. Flat glass. 247,669; Oct. 2; Serial No. 267,227; published July 24, 1928. Class 33.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 247,783; Oct. 2; Serial No. 268,141; published July 24, 1928. Class 42.

Brasher, Joseph C., doing business as Pan-Lax Company, Dallas, Tex. Preparation for coughs, colds, croup, etc. 247,633; Oct. 2; Serial No. 261,938; published July 10, 1928. Class 6.

Breath of New Mown Hay Co. (See Hicks, Thomas W.)

Briggs, Charles H., doing business as Charles H. Briggs & Co., Chicago, Ill. Antiseptic chemical cleaner. 247,732; Oct. 2; Serial No. 265,317; published July 17, 1928. Class 4.

Brooks, Burleigh, New York, N. Y. Cameras. 247,692; Oct. 2; Serial No. 267,632; published July 24, 1928. Class 26.

Brothers Corporation, New York, N. Y. Prepared medicine. 247,619; Oct. 2; Serial No. 263,373; published July 17, 1928. Class 6.

Brown Company, Portland, Me., and Belle Glade, Fla. Fresh potatoes. 247,750; Oct. 2; Serial No. 250,222; published July 24, 1928. Class 46.

Buchanan, John, East Pittsburgh, Pa. Antifreeze solution. 247,687; Oct. 2; Serial No. 267,831; published July 17, 1928. Class 6.

Buffalo Commercial Body Co. Inc., Buffalo, N. Y. Automobiles. 247,615; Oct. 2; Serial No. 264,349; published July 10, 1928. Class 19.

Burnand & Company, Los Angeles, Calif., and Nogales, Ariz. Fresh vegetables, fruits, etc. 247,768; Oct. 2; Serial No. 266,789; published July 24, 1928. Class 46.

Burroughs Adding Machine Company, Detroit, Mich. Publication issued periodically. 247,563; Oct. 2; Serial No. 266,645; published July 17, 1928. Class 38.

Bush, W. J., and Company, Limited, London, England. Syrups, essences, flavorings, etc. 247,661; Oct. 2; Serial No. 267,349; published July 24, 1928. Class 45.

Butchart, Cuthbert S., Rye, N. Y., and Glenbrook, Conn. Golf club. 247,809; Oct. 2. Class 22.

Butterfield, Fred, & Co., Inc., New York, N. Y. Lamps and parts thereof, lamp shades and parts, and gas mantles. 247,610; Oct. 2; Serial No. 264,284; published July 10, 1928. Class 34.

California Bleaching Water Co., San Francisco, Calif. Cottonseed salad oil. 247,580; Oct. 2; Serial No. 266,015; published July 17, 1928. Class 46.

California Crushed Fruit Corporation, Los Angeles, Calif. Beverage and syrups, extracts, and concentrates for preparing the same. 247,811; Oct. 2. Class 45.

Carr Chemical Company, Coral Gables, Fla. Tablets. 247,562; Oct. 2; Serial No. 266,646; published July 17, 1928. Class 6.

Certified Dog Remedies, Atlanta, Ga. Dog remedies. 247,640; Oct. 2; Serial No. 259,620; published July 17, 1928. Class 6.

Chemische Fabrik Jacobus G. m. b. H., Berlin-Charlottenburg, Germany. Chemical product. 247,604; Oct. 2; Serial No. 263,859; published July 17, 1928. Class 6.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics. 247,782; Oct. 2; Serial No. 268,078; published July 24, 1928. Class 42.

Chinchiolo Bros. & Co., Stockton, Calif. Fresh deciduous fruits. 247,657; Oct. 2; Serial No. 255,963; published July 24, 1928. Class 46.

Cleaves Manufacturing Co., Woonsocket, R. I. Brushes. 247,753; Oct. 2; Serial No. 229,160; published July 10, 1928. Class 29.

Clinton, Bob, Mfg. Co., Birmingham, Ala. Liniment. 247,709; Oct. 2; Serial No. 266,190; published July 10, 1928. Class 6.

Columbus Show Case Co., The, Columbus, Ohio. Store furniture. 247,650; Oct. 2; Serial No. 257,050; published July 24, 1928. Class 32.

Coram, George M., doing business as Coram Brothers, Utica, N. Y. Lamp utilizing luminous substances. 247,606; Oct. 2; Serial No. 264,018; published July 17, 1928. Class 34.

Coraza Cigar Company, The, Philadelphia, Pa. Cigars. 247,684; Oct. 2; Serial No. 267,887; published July 24, 1928. Class 17.

Coty, Inc., Wilmington, Del., and New York, N. Y. Lip rouge and lip sticks. 247,551; Oct. 2; Serial No. 264,715; published July 10, 1928. Class 6.

Cranadine Company, The, Hammonton, N. J. Beverages and syrups for making the same. 247,759; Oct. 2; Serial No. 266,915; published July 24, 1928. Class 45.

Cranadine Company, The, Hammonton, N. J. Beverages and syrups for making the same. 247,781; Oct. 2; Serial No. 266,916; published July 24, 1928. Class 45.

Cretors, Charles, doing business as Cretors & Co., Chicago, Ill. Butter substitute. 247,799; Oct. 2. Class 46.

Deakides, Nicholas, Athens, Ga. Beverages. 247,688; Oct. 2; Serial No. 267,702; published July 24, 1928. Class 45.

Decrow Automotive Specialties, Inc., Lockport, N. Y. Lubricating devices. 247,668; Oct. 2; Serial No. 267,247; published July 24, 1928. Class 23.

De L'Opera Fabrics Corporation, New York, N. Y. Silk chiffon in the piece. 247,728; Oct. 2; Serial No. 265,368; published July 24, 1928. Class 42.

De L'Opera Fabrics Corporation, New York, N. Y. Chiffon. 247,792; Oct. 2; Serial No. 260,217; published July 24, 1928. Class 42.

Deutsche Huragan Gesellschaft m. b. H., Berlin, Germany. Grinding and crushing machines, etc. 247,639; Oct. 2; Serial No. 259,712; published July 24, 1928. Class 23.

Diaz, Félix A., doing business as Laboratories Filarysine, Santurce, P. R. Pharmaceutical preparation. 247,701; Oct. 2; Serial No. 266,419; published July 10, 1928. Class 6.

Dixietoy Company, The. (See Thorndike, Herbert A.)
Dox Company, San Francisco and Emeryville, Calif. Washing and cleaning compound. 247,761; Oct. 2; Serial No. 266,855; published July 10, 1928. Class 4.
Drum, William S., doing business as W. S. Drum Company, Delhi, N. Y. Antiseptic preparation. 247,756; Oct. 2; Serial No. 241,656; published July 17, 1928. Class 6.
Duune, Frank W., Co., Oakland, Calif. Specially-prepared varnish. 247,767; Oct. 2; Serial No. 266,801; published July 17, 1928. Class 16.
Duo-Ix Products Corp., The, Chicago, Ill. Glazes, paints, lacquers, etc. 247,602; Oct. 2; Serial No. 263,697; published July 17, 1928. Class 16.
Du Pont, E. J., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 247,724–5; Oct. 2; Serial Nos. 265,427–8; published July 10, 1928. Class 6.
Earle, Marie, Inc., New York, N. Y. Salve, tonic, and lotion, toilet cream, etc. 247,632; Oct. 2; Serial No. 261,970; published July 10, 1928. Class 6.
Easy-On Cap Company, The, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Closures. 247,616; Oct. 2; Serial No. 264,366; published July 17, 1928. Class 19.
Eaton Axle & Spring Company, The. (See Easy-On Cap Company, The.)
Eaton & Doller. (See Alfred, William H. L.)
Egg-Calc Laboratory. (See Liles, Walter.)
Ekelman-Whittier Co., Inc., Yakima, Wash. Irish potatoes. 247,771; Oct. 2; Serial No. 260,631; published July 24, 1928. Class 46.
Electrical League of Cleveland, Inc., The, Cleveland, Ohio. Publication. 247,736; Oct. 2; Serial No. 265,150; published July 10, 1928. Class 38.
Elgin Chocolate Products Co. Inc., Elgin, Ill. Candy. 247,683; Oct. 2; Serial No. 267,888; published July 24, 1928. Class 46.
Ellis-Foster Company, Montclair, N. J. Synthetic resins. 247,727; Oct. 2; Serial No. 265,370; published July 10, 1928. Class 6.
Elio Laboratories. (See Huribut, Olive R.)
Exclusive Distributors' Association, The, Columbus, Ohio. Periodical publication. 247,673; Oct. 2; Serial No. 267,189; published July 17, 1928. Class 38.
Experimenter Publishing Company, Inc., New York, N. Y. Publication. 247,693; Oct. 2; Serial No. 267,552; published July 17, 1928. Class 38.
Experimenter Publishing Company, Inc., New York, N. Y. Publication. 247,694; Oct. 2; Serial No. 267,550; published July 17, 1928. Class 38.
Experimenter Publishing Company, Inc., New York, N. Y. Publication. 247,695; Oct. 2; Serial No. 267,548; published July 17, 1928. Class 38.
Fargo Motor Corporation. (See Amplex Manufacturing Company, assignor.)
Farina, Johann Maria, Inc., New York, N. Y. Eau de cologne. 247,552; Oct. 2; Serial No. 264,723; published July 10, 1928. Class 6.
Ferrara Panned Candy Co. Inc., Chicago, Ill. Candy. 247,704; Oct. 2; Serial No. 266,365; published July 17, 1928. Class 46.
Filice & Perrelli Canning Company, Inc., Gilroy, Calif. Canned fruits and vegetables. 247,766; Oct. 2; Serial No. 266,803; published July 24, 1928. Class 46.
Fits-U Cap Co., St. Louis, Mo. Headwear. 247,607; Oct. 2; Serial No. 264,029; published July 3, 1928 Class 39.
Fogel, Adolph, doing business as Wave-Hak Co., Milwaukee, Wis. Liquid hair wash. 247,726; Oct. 2; Serial No. 265,374; published July 10, 1928. Class 6.
Food Materials Corporation, Chicago, Ill. Dyes. 247,574; Oct. 2; Serial No. 266,521; published July 17, 1928. Class 6.
Forman, L. C., & Sons, Inc., Pittsford, N. Y. Chili sauce, pickle relish, etc. 247,584; Oct. 2; Serial No. 265,897; published July 17, 1928. Class 46.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper. 247,803; Oct. 2. Class 37.
Frank Tea & Spice Co., The, Cincinnati, Ohio. Spices, peanut butter, pepper sauce, etc. 247,739; Oct. 2; Serial No. 254,907; published July 17, 1928. Class 46.
Friedlieb, Jacob, Rockaway Beach, N. Y. Laxative lollypops. 247,744; Oct. 2; Serial No. 252,468; published July 10, 1928. Class 6.
Fruit Distributors Co. of California. (See Williams, Prentice W.)
Furolin Paint Mfg. Co., Inc., Chicago, Ill. Paints, varnishes, enamels, and stains. 247,734; Oct. 2; Serial No. 265,204; published July 17, 1928. Class 16.
Gem-Dandy Garter Co., Madison, N. C. Garters, arm bands, and suspenders. 247,541; Oct. 2; Serial No. 264,515; published July 3, 1928. Class 39.
Gladbrook Packing Co., also doing business as Gladbrook Mustard Factory, Long Beach, Calif. Cucumber pickles. 247,807; Oct. 2. Class 46.
Glover, H. Clay, Co., Inc., New York, N. Y. Hair application and mange medicine. 247,569; Oct. 2; Serial No. 266,590; published July 17, 1928. Class 6.
Gold Rolled Food Products Co., Chicago, Ill. Egg noodles. 247,698; Oct. 2; Serial No. 267,413; published July 17, 1928. Class 46.
Goodrich, B. F., Company, The, New York, N. Y. Conducting hose. 247,812; Oct. 2. Class 35.
Goodrich-Eshbaugh Chemical Laboratories, Inc., Ossining and New York, N. Y. Medicated chewing gum, tooth powder, etc. 247,583; Oct. 2; Serial No. 265,900; published July 10, 1928. Class 6.
Grant, J. E., doing business as Grant's Hygienic Food Products Company, Berkeley, Calif. Crackers, hygienic crackers, breakfast food, etc. 247,703; Oct. 2; Serial No. 266,370; published July 17, 1928. Class 46.
Grape Capsule Company, Inc., Allentown, Pa. Hygienic, prophylactic, and antiseptic preparation. 247,700; Oct. 2; Serial No. 266,423; published July 17, 1928. Class 6.
Green, Charles W., New York, N. Y. Tissue-building preparation. 247,780; Oct. 2; Serial No. 266,926; published July 17, 1928. Class 6.
Gretsch, Fred., Mfg. Co., The, New York, N. Y. Cymbals. 247,623; Oct. 2; Serial No. 263,083; published July 17, 1928. Class 36.
Grey, Manuel, Mexico, Mexico. Medicinal preparation. 247,617; Oct. 2; Serial No. 264,490; published July 10, 1928. Class 6.
H. & W. Company, The, Newark, N. Y. Bandeaux, girdles, and belts. 247,613; Oct. 2; Serial No. 264,097; published July 3, 1928. Class 39.
Hart, E. J., & Co. Ltd., New Orleans, La. Ointment for local application for the treatment of chapped hands, etc. 247,776; Oct. 2; Serial No. 266,990; published July 17, 1928. Class 6.
Harwood, Fulton, Brass & Aluminum Co., South Bend, Ind. Brass, aluminum, and bronze castings. 247,588; Oct. 2; Serial No. 265,835; published July 17, 1928. Class 14.
Hawaiian Pineapple Company, Ltd., San Francisco, Calif., and Iwilei, Hawaii. Canned fruits. 247,715; Oct. 2; Serial No. 266,133; published July 17, 1928. Class 46.
Henckels, J. A., Solingen, Germany. Knives, scissors, shears, etc. 247,624; Oct. 2; Serial No. 263,003; published July 24, 1928. Class 23.
Hercules Products Company, St. Joseph, Mich. Automobile rim tools. 247,671–2; Oct. 2; Serial Nos. 267,194–5; published July 24, 1928. Class 23.
Herpicide Company, The, Detroit, Mich. Preparation for the treatment of hair and scalp. 247,702; Oct. 2; Serial No. 266,372; published July 10, 1928. Class 6.
Hicks, Thomas W., doing business as Breath of New Mown Hay Co., Minneapolis, Minn. Deodorants, revitalizers, etc. 247,618; Oct. 2; Serial No. 264,430; published July 10, 1928. Class 6.
Hillerich & Bradsby Co., Louisville, Ky. Baseball bats. 247,779; Oct. 2; Serial No. 266,935; published July 17, 1928. Class 22.
Hoffman, Paul G., Co. Inc., Los Angeles, Calif. Automobiles. 247,798; Oct. 2. Class 19.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 247,784; Oct. 2; Serial No. 268,222; published July 24, 1928. Class 42.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 247,785–6; Oct. 2; Serial Nos. 268,224–5; published July 24, 1928. Class 42.
Holland Furnace Company, Holland, Mich. Coal, coke, wood, etc., furnaces. 247,608; Oct. 2; Serial No. 264,107; published July 17, 1928. Class 34.
Holland Shoe Company, Holland, Mich. Leather shoes. 247,723; Oct. 2; Serial No. 265,480; published July 3, 1928. Class 39.
Hopper, Albert M., doing business as A. M. Hopper & Co., New York, N. Y. Laxatives. 247,640; Oct. 2; Serial No. 257,008; published July 10, 1928. Class 6.
Huribut, Olive R., doing business as Elio Laboratories, Douglaston, N. Y. Hair tonic. 247,755; Oct. 2; Serial No. 241,054; published Jan. 18, 1927. Class 6.
Hygrolit Incorporated, Kearny, N. J. Apparatus for adding moisture to textile fibres and other raw materials. 247,573; Oct. 2; Serial No. 266,541; published July 24, 1928. Class 23.
I. G. Farbenindustrie Aktiengesellschaft, Leverkusen, near Cologne-on-the-Rhine, Germany. Stuffing agent. 247,570; Oct. 2; Serial No. 266,588; published July 17, 1928. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Chemical products for industrial, scientific, and photographic purposes. 247,656; Oct. 2; Serial No. 256,180; published July 17, 1928. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, and Berlin, Germany. Insecticides. 247,711; Oct. 2; Serial No. 266,168; published July 10, 1928. Class 6.
Internationale Cacaofabrieken, Amsterdam, Netherlands. Powdered cocoa. 247,595; Oct. 2; Serial No. 265,726; published July 17, 1928. Class 46.
Italian Food Products Company, Inc., Long Beach, Calif. Canned fish. 247,682; Oct. 2; Serial No. 267,002; published July 24, 1928. Class 46.
Italian Food Products Co. Inc., Long Beach, Calif. Tomato paste. 247,749; Oct. 2; Serial No. 250,544; published July 17, 1928. Class 46.
Jacobsen Publishing Company, The, Chicago, Ill. Department or section of a magazine. 247,559; Oct. 2; Serial No. 266,734; published July 17, 1928. Class 38.
Jahn & Oliver Engraving Co., Chicago, Ill. Reproductions of photographs and prints. 247,630; Oct. 2; Serial No. 262,461; published June 12, 1928. Class 38.
James Manufacturing Company, Fort Atkinson, Wis. Milk stools. 247,774; Oct. 2; Serial No. 267,055; published July 24, 1928. Class 23.

Janssen Company, The, Cincinnati, Ohio. Brooms. 247,708; Oct. 2; Serial No. 266,248; published July 10, 1928. Class 20.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Perfume. 247,571; Oct. 2; Serial No. 266,573; published July 17, 1928. Class 6.
Kalbitzer, C., Packing Co., The, doing business as The Market Basket, Wheeling, W. Va. Coffee. 247,628; Oct. 2; Serial No. 262,566; published July 17, 1928. Class 46.
Kaufman & Ruderman Co. Inc., New York, N. Y. Earrings, finger rings, anklets, etc. 247,622; Oct. 2; Serial No. 263,158; published July 17, 1928. Class 28.
Kitchiew, Mohammed I., Chicago, Ill. Incense. 247,548; Oct. 2; Serial No. 264,689; published July 17, 1928. Class 6.
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 247,555; Oct. 2; Serial No. 264,825; published July 17, 1928. Class 40.
Kortlee Frock, Inc., New York, N. Y. Silk goods in the piece. 247,764–5; Oct. 2; Serial Nos. 266,820–1; published July 3, 1928. Class 42.
Krank, A. J., Mfg. Co., St. Paul, Minn. Lip stick. 247,592; Oct. 2; Serial No. 265,797; published July 10, 1928. Class 6.
Kring, Victor F., doing business as Dr. Morrison's Medical Research Laboratories, Fort Wayne, Ind. Cough syrups, cod tonic, earache oil, etc. 247,629; Oct. 2; Serial No. 262,466; published July 10, 1928. Class 6.
Kuehn, Norman L., doing business as N. L. Kuehn Company, Milwaukee, Wis. Hose. 247,676; Oct. 2; Serial No. 267,130; published July 24, 1928. Class 35.
Kumamoto, Miyakichi, doing business as Kumamoto Fish Co., Seattle, Wash. Canned fish. 247,754; Oct. 2; Serial No. 233,382; published July 24, 1928. Class 46.
Laboratoires Filaryzine. (See Diaz, Félix A.)
Lahey, Walter S., New York, N. Y. Leather gloves. 247,539; Oct. 2; Serial No. 264,587; published July 3, 1928. Class 39.
Laing Harrar & Chamberlin, Inc., Philadelphia, Pa. Steel shoehorns. 247,609; Oct. 2; Serial No. 264,171; published July 17, 1928. Class 40.
Lammertz, Leo, Aix-la-Chapelle, Germany. Sewing-machine needles. 247,638; Oct. 2; Serial No. 261,578; published July 24, 1928. Class 23.
Laub, Leon C., New York, N. Y. Plates, candy boxes, boudoir boxes, etc. 247,582; Oct. 2; Serial No. 265,971; published July 24, 1928. Class 2.
Lea, David M., & Company, Inc., Richmond, Va. Monthly publication. 247,675; Oct. 2; Serial No. 267,133; published July 17, 1928. Class 38.
Les Etablissements Poulenc Freres, Paris, France. Compounds for the treatment of diabetes and arterial hypertension. 247,603; Oct. 2; Serial No. 263,709; published July 10, 1928. Class 6.
Lester & Wasley Co., Inc., Norwich, Conn. Deckling and beveling machines, paper-drinking-cup and adhesive-applying machines. 247,777; Oct. 2; Serial No. 267,001; published July 24, 1928. Class 23.
Liles, Walter, doing business as Egg-Calc Laboratory, Richmond, Va. Medicinal preparation. 247,813; Oct. 2. Class 6.
Linz Ventilator Company, Pittsburgh, Pa. Sash ventilators. 247,538; Oct. 2; Serial No. 264,592; published July 10, 1928. Class 34.
Class 34.
Livingston, Murry, New York, N. Y. Table game. 247,722; Oct. 2; Serial No. 265,484; published July 17, 1928. Class 22.
Long Island Yarn Corporation, New York and Long Island City, N. Y. Cotton and rayon yarns. 247,787; Oct. 2; Serial No. 268,287; published July 24, 1928. Class 43.
Lucas Ranching Company, Cucamonga, Calif. Fresh deciduous and citrus fruits. 247,721; Oct. 2; Serial No. 265 551; published July 24, 1928. Class 46.
Lummis & Company, Philadelphia, Pa. Pop corn. 247,763; Oct. 2; Serial No. 266,822; published July 24, 1928. Class 46.
Lustrite Corporation, The, New York, N. Y. Finger-nail dressings. 247,735; Oct. 2; Serial No. 265,160; published July 10, 1928. Class 6.
Lytzo Company, Chicago, Ill. Liquid fuel for cigar and cigarette lighters. 247,605; Oct. 2; Serial No. 263,877; published July 10, 1928. Class 6.
Macfadden Publications Incorporated, New York, N. Y. Daily newspaper. 247,591; Oct. 2; Serial No. 265,799; published July 10, 1928. Class 38.
Mackewicz, John W., Frederick, Pa. Antifreezing liquid. 247,773; Oct. 2; Serial No. 262,366; published July 17, 1928. Class 6.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 247,788; Oct. 2; Serial No. 268,288; published July 24, 1928. Class 42.
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Belts, hose, and packing. 247,742; Oct. 2; Serial No. 253,850; published July 24, 1928. Class 35.
Manthey-Zorn Laboratories Company, The, Cleveland, Ohio. Coffee-flavored beverage. 247,800; Oct. 2. Class 45.
Market Basket, The. (See Kalbitzer, C., Packing Co., The.)
Mast, Aaron, doing business as Steinway Perfumery Shop, Long Island City, N. Y. Face lotions, face creams, powders, etc. 247,737; Oct. 2; Serial No. 264,996; published July 10, 1928. Class 6.

Mayer, H. J., and Sons Company, Chicago, Ill. Compound or preparation for curing preserved meats. 247,810; Oct. 2. Class 6.
Mazy, Mrs. Frank J., Omaha, Nebr. Medicines. 247,770; Oct. 2; Serial No. 260,398; published July 10, 1928. Class 6.
McIntosh, Pearl, Topeka, Kans. Preparation for permanent hair waving. 247,567; Oct. 2; Serial No. 266,603; published July 17, 1928. Class 6.
McKinney Manufacturing Company, Pittsburgh, Pa. Hinges. 247,663; Oct. 2; Serial No. 267,309; published July 24, 1928. Class 13.
McWilliams, Viola, Chicago, Ill. Drapes, pillow covers, table covers, etc. 247,611; Oct. 2; Serial No. 264,317; published July 24, 1928. Class 42.
Meide, G. (See Schnitter, Curt.)
Merrimack Manufacturing Company, Lowell, Mass. Cotton piece goods. 247,654; Oct. 2; Serial No. 256,787; published July 24, 1928. Class 42.
Metro Chocolate Co. Inc., Brooklyn, N. Y. Chocolate-covered marshmallow bars. 247,805; Oct. 2. Class 46.
Mid-Kansas Milling Co., The. (See Shellabarger Mills & Elevator Company.)
Miller, Juanita, Oakland, Calif. Candy. 247,752; Oct. 2; Serial No. 250,186; published July 24, 1928. Class 46.
Minkus, Morris, New York, N. Y. Dictionaries, Bibles, and classics. 247 660; Oct. 2; Serial No. 267,373; published July 17, 1928. Class 38.
Mirror, The, New York, N. Y. Candies, bonbons, pastry, cakes, etc. 247,620; Oct. 2; Serial No. 263,169; published July 17, 1928. Class 46.
Mirror, The, New York, N. Y. Candies, bonbons, pastry, etc. 247,621; Oct. 2; Serial No. 263,167; published July 17, 1928. Class 46.
Moret Parfumeur. (See Peoples Drug Stores, Inc.)
Morrison's, Dr., Medical Research Laboratories. (See Kring, Victor F.)
Muscarello, August, Chicago, Ill. Medicinal preparation for the treatment of rheumatism, etc. 247,561; Oct. 2; Serial No. 266,679; published July 17, 1928. Class 6.
N. V. Nederlandsche Kuntstzijdefabriek, Arnhem, Netherlands. Ribbons, materials, knitted goods, etc. 247,740; Oct. 2; Serial No. 254,503; published July 24, 1928. Class 42.
Nandi, Sarat C., Detroit, Mich. Incense. 247,746; Oct. 2; Serial No. 251,977; published July 17, 1928. Class 6.
Nash-Breyer Motor Company, Los Angeles, Calif. Magazine. 247,667; Oct. 2; Serial No. 267,269; published July 17, 1928. Class 38.
National Magnesia Co. Inc., Brooklyn, N. Y. Laxatives. 247,577; Oct. 2; Serial No. 266,473; published July 10, 1928. Class 6.
National Magnesia Co. Inc., Brooklyn, N. Y. Laxatives. 247,578; Oct. 2; Serial No. 266,472; published July 17, 1928. Class 6.
National Mayonnaise Machine Co., Inc., New York, N. Y. Emulsifying apparatus and parts thereof. 247,691; Oct. 2; Serial No. 267,662; published July 24, 1928. Class 23.
New York Canners, Inc., Rochester, N. Y. Canned fruits, canned vegetables, etc. 247,747; Oct. 2; Serial No. 251,237; published July 17, 1928. Class 46.
New York Canners, Inc., Rochester, N. Y. Canned fruits and canned vegetables. 247,748; Oct. 2; Serial No. 251,071; published July 24, 1928. Class 46.
Odor-Nox Chemical Co., Chicago, Ill. Foot deodorant. 247,699; Oct. 2; Serial No. 267,074; published July 17, 1928. Class 6.
Okla Water Co., Ada, Okla. Saline laxative and aperient. 247,778; Oct. 2; Serial No. 266,947; published July 17, 1928. Class 6.
Old Dominion Tobacco Company, Inc., Norfolk, Va. Evaporated milk. 247,769; Oct. 2; Serial No. 266,741; published July 17, 1928. Class 46.
Ono Trading Co. (See Tatsukawa, Naosaburo.)
Oriento Manufacturing Co. (See Bedrosian, Milan.)
Pacific American Fisheries, Chicago, Ill., and South Bellingham, Wash. Canned salmon. 247,689–90; Oct. 2; Serial Nos. 267,664–5; published July 24, 1928. Class 46.
Pacific Trading Co., Inc., San Francisco, Calif. Canned fish. 247,681; Oct. 2; Serial No. 267,988; published July 24, 1928. Class 46.
Paint Engineers, Inc., Chicago, Ill. Paints, lacquer, varnish, etc. 247,597; Oct. 2; Serial No. 265,683; published July 17, 1928. Class 16.
Palmer, Ralph M., New York, N. Y. Chemical preparation. 247,666; Oct. 2; Serial No. 267,271; published July 17, 1928. Class 6.
Palmolive-Peet Company, The, Chicago, Ill. Talcum powder. 247,627; Oct. 2; Serial No. 262,768; published July 17, 1928. Class 6.
Pan-Lax Company. (See Brasher, Joseph C.)
Parrish, Robert E., doing business as The Parrish Drug Co., Bennington, Okla. Medicine. 247,733; Oct. 2; Serial No. 265,289; published July 17, 1928. Class 6.
Penataquit Drug Company. (See Alianiello, Augustin.)
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Ladies garters. 247,557; Oct. 2; Serial No. 264,911; published July 3, 1928. Class 39.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Threads. 247,679–80; Oct. 2; Serial Nos. 268,056–7; published July 24, 1928. Class 43.

Peoples Drug Stores, Inc., doing business as Moret Parfumeur, Washington, D. C. Toilet water, cold cream, talcum powder, etc. 247,719; Oct. 2; Serial No. 265,009; published July 10, 1928. Class 6.

Perugia, André, Paris, France. Perfumery, face cream and powder, rouge, and nail varnish. 247,791; Oct. 2; Serial No. 260,135; published June 12, 1928. Class 6.

Pfeiffer, S., Mfg. Co., St. Louis, Mo. Medicinal preparations and products. 247,542; Oct. 2; Serial No. 264,602; published July 10, 1928. Class 6.

Powell, George R., Philadelphia, Pa. Combination accelerator and brake pedal for automobiles. 247,757; Oct. 2; Serial No. 248,252; published July 24, 1928. Class 23.

Practical Publications, Inc., Indianapolis, Ind. Trade journal. 247,731; Oct. 2; Serial No. 265,344; published July 17, 1928. Class 38.

Preservaline Manufacturing Co., The, Brooklyn, N. Y. Coloring for cheese, butter, etc. 247,665; Oct. 2; Serial No. 267,275; published July 17, 1928. Class 6.

Price Current-Grain Reporter, Chicago, Ill. Periodical. 247,670; Oct. 2; Serial No. 267,211; published July 17, 1928. Class 38.

Provandie, B. F., Chicago, Ill. Newspaper supplements. 247,707; Oct. 2; Serial No. 266,270; published July 17, 1928. Class 38.

Pyro Importing Company, Seattle, Wash. Firecrackers. 247,686; Oct. 2; Serial No. 267,857; published July 24, 1928. Class 9.

Ranchers' Manufacturing Company, Pomona, Calif. Pumps and pump parts. 247,797; Oct. 2. Class 23.

Ravenswood Office Specialties Company, Chicago, Ill. Stationery files. 247,644; Oct. 2; Serial No. 258,041; published July 24, 1928. Class 32.

Reach, A. J., Company, Philadelphia, Pa. Baseballs, tennis-racket presses, tennis bags, tennis posts, etc. 247,545; Oct. 2; Serial No. 264,655; published July 17, 1928. Class 22.

Reach, A. J., Company, Philadelphia, Pa. Baseball uniforms, shoes, football pants, etc. 247,546; Oct. 2; Serial No. 264,656; published July 3, 1928. Class 39.

Resinous Products and Chemical Company, The, Philadelphia, Pa. Synthetic or chemically-prepared resins. 247,576; Oct. 2; Serial No. 266,483; published July 10, 1928. Class 6.

Review of Reviews Corporation, The, New York, N. Y. Section or department of a monthly magazine. 247,720; Oct. 2; Serial No. 265,566; published July 10, 1928. Class 38.

Richardson, Dr. R. L., doing business as Richardson Chemical Co., Franklin, Tenn. Ointment. 247,793; Oct. 2; Serial No. 260,368; published July 10, 1928. Class 6.

Rixson, Oscar C., Company, The, Chicago, Ill. Door and casement hinges, pivots, holders, etc. 247,587; Oct. 2; Serial No. 265,856; published July 24, 1928. Class 13.

Roach, Tisdale & Co., Minneapolis, Minn. Candy bar. 247,743; Oct. 2; Serial No. 253,684; published July 3, 1928. Class 46.

Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Scouring powder. 247,568; Oct. 2; Serial No. 266,622; published July 10, 1928. Class 4.

Rubinstein, Helena, Inc., New York, N. Y. Face creams. 247,745; Oct. 2; Serial No. 252,291; published July 10, 1928. Class 6.

Rugof, Samuel, doing business as Rugof Chemist, New York, N. Y. Sweet spirits of nitre, witch-hazel, etc. 247,626; Oct. 2; Serial No. 262,771; published July 10, 1928. Class 6.

St. Louis Window Display Fixture Company, St. Louis, Mo. Window display fixtures. 247,637; Oct. 2; Serial No. 261,151; published July 24, 1928. Class 32.

Sample, Hallie L., Muncie, Ind. Laxative medicines. 247,566; Oct. 2; Serial No. 266,624; published July 17, 1928. Class 6.

Samson Cordage Works, Boston, Mass. Cords and twines. 247,579; Oct. 2; Serial No. 266,048; published July 17, 1928. Class 7.

Sanford, Stephen, & Sons Inc., Amsterdam, N. Y. Axminster carpets and rugs. 247,685; Oct. 2; Serial No. 267,872; published July 24, 1928. Class 42.

Schettler Drug Company, The, Detroit, Mich. Perfumes, toilet waters, talcum, etc. 247,556; Oct. 2; Serial No. 264,847; published July 10, 1928. Class 6.

Schilling, A., & Co., San Francisco, Calif. Tea. 247,598; Oct. 2; Serial No. 265,605; published July 17, 1928. Class 46.

Schnitter, Curt, doing business as G. Melde, Cottbus, Germany. Cordials, whiskey, brandy, gin, and liquors. 247,646; Oct. 2; Serial No. 257,591; published July 24, 1928. Class 49.

Scott & Gilbert Co., San Francisco, Calif. Belladonna plasters, healing powder, etc. 247,549; Oct. 2; Serial No. 264,702; published July 10, 1928. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Copper-tub electric clothes-washing machines. 247,565; Oct. 2; Serial No. 266,626; published July 24, 1928. Class 24.

Seeman Brothers, Inc., New York, N. Y. Tea balls. 247,705; Oct. 2; Serial No. 266,336; published July 24, 1928. Class 46.

Seymour-Howard Corporation, Chicago, Ill. Antiknock compound. 247,642; Oct. 2; Serial No. 259,025; published July 10, 1928. Class 6.

Shafarman, L., Inc., New York, N. Y. Men's hats. 247,550; Oct. 2; Serial No. 264,704; published June 26, 1928. Class 39.

Sha-O-Chem Company, The, Trevorton, Pa. Pharmaceutical preparation. 247,758; Oct. 2; Serial No. 249,608; published July 10, 1928. Class 6.

Shellabarger Mills & Elevator Company, doing business as The Mid-Kansas Milling Co., Salina, Kans. Wheat flour. 247,643; Oct. 2; Serial No. 258,600; published June 5, 1928. Class 46.

Shepard, Joseph C., Wilmington, N. C. Soaps, polishes, and the like. 247,596; Oct. 2; Serial No. 265,700; published June 19, 1928. Class 4.

Shore Instrument & Mfg. Co., The, Jamaica, N. Y. Apparatus for mensuring the hardness of materials. 247,658; Oct. 2; Serial No. 255,422; published July 24, 1928. Class 26.

Simms Drug Co., St. Louis, Mo. Tonic. 247,648; Oct. 2; Serial No. 257,203; published July 10, 1928. Class 6.

Sloan, Dr. Earl S., Incorporated, Wilmington, Del.; New York, N. Y.; and St. Louis, Mo. Liniment. 247,636; Oct. 2; Serial No. 261,024; published June 12, 1928. Class 6.

Smith, D. B., & Company, Inc., Utica, N. Y. Sprayers, spray pumps, etc. 247,762; Oct. 2; Serial No. 266,833; published July 24, 1928. Class 23.

Smith, R. B., doing business as R. B. Smith & Co., Ogden, Utah. Mayonnaise dressing, relish spread, etc. 247,717; Oct. 2; Serial No. 266,101; published July 17, 1928. Class 46.

Snelson & Sons, Atlanta, Ga. Skin lotion. 247,772; Oct. 2; Serial No. 260,919; published July 10, 1928. Class 6.

Societe Anonyme Donge, Courbevoie, France. Perfume, face powder, talcum powder, etc. 247,706; Oct. 6; Serial No. 266,279; published July 17, 1928. Class 6.

Sotiriades, George, doing business as George Tsioungas, Gary, Ind. Medicine for stomach ailments. 247,634; Oct. 2; Serial No. 261,843; published July 10, 1928. Class 6.

Southern Tire and Rubber Company, Augusta, Ga. Auto tires and tubes. 247,662; Oct. 2; Serial No. 267,321; published July 24, 1928. Class 35.

Speedsy Manufacturing Company, The, Cleveland, Ohio. Household washing machines and parts thereof. 247,647; Oct. 2; Serial No. 257,515; published July 24, 1928. Class 24.

Sporel Mfg. Co., Brooklyn, N. Y. Medicine for treatment of eczema, itch, etc. 247,599; Oct. 2; Serial No. 265,580; published July 10, 1928. Class 6.

Stalus, Kleo, Woodside, N. Y. Hair tonic. 247,655; Oct. 2; Serial No. 256,748; published July 10, 1928. Class 6.

Standard Imports Limited, Montreal, Canada. Canned fruits, vegetables, tea, coffee, etc. 247,716; Oct. 2; Serial No. 266,109; published July 17, 1928. Class 46.

Steinway Perfumery Shop. (See Mast, Aaron.)

Tatsukawa, Naosaburo, doing business as Ono Trading Co., San Francisco, Calif. Tuna fish. 247,575; Oct. 2; Serial No. 266,499; published July 24, 1928. Class 46.

Tea Time Food Products Company, Chicago, Ill. Southern relish, fruit conserves, etc. 247,612; Oct. 2; Serial No. 264,335; published July 17, 1928. Class 46.

Texas City Canneries, Texas City, Tex. Canned and preserved figs. 247,653; Oct. 2; Serial No. 256,797; published July 24, 1928. Class 46.

Thorndike, Herbert A., doing business as The Dixietoy Company, Orlando, Fla. Chairs, tables, and seats. 247,790; Oct. 2; Serial No. 260,036; published July 24, 1928. Class 32.

Toledo Scale Company, Toledo, Ohio. Weighing scales, counting machines, dynamometers, etc. 247,718; Oct. 2; Serial No. 266,056; published July 24, 1928. Class 26.

Torrington Specialty Company Inc., Torrington, Conn. Collapsible chairs, benches, and tables. 247,696; Oct. 2; Serial No. 267,520; published July 24, 1928. Class 32.

Trelles, M., & Company, New Orleans, La. Cigars, cheroots, etc. 247,795; Oct. 2. Class 17.

Tsioungas, George. (See Sotiriades, George.)

Turner, John H., Stockton, Calif. Horse-radish. 247,572; Oct. 2; Serial No. 266,565; published July 17, 1928. Class 46.

United States Lime Products Corporation, San Francisco, Calif. Hydrated and quick lime. 247,641; Oct. 2; Serial No. 259,265; published July 10, 1928. Class 6.

Van Camp Sea Food Company, Inc., Terminal Island, Calif. Canned fish, smoked fish, and preserved fish. 247,741; Oct. 2; Serial No. 254,312; published July 24, 1928. Class 46.

Vermilya Medicine Company, Bloomington, Ind. Vegetable tonic and blood purifier for laxative purposes. 247,678; Oct. 2; Serial No. 267,100; published July 17, 1928. Class 6.

Vex Sales Corporation, Chicago, Ill. Fertilizer-dispensing apparatus and parts thereof. 247,677; Oct. 2; Serial No. 267,101; published July 24, 1928. Class 23.

Vichek Tool Company, The, Cleveland, Ohio. Tool sets. 247,543; Oct. 2; Serial No. 264,619; published July 24, 1928. Class 23.

Volt, William J., doing business as W. J. Volt Rubber Company, Los Angeles, Calif. Inflatable rubber balls. 247,808; Oct. 2. Class 22.

Wagner, Günther, Hanover, Germany. Inks and ink powders. 247,558; Oct. 2; Serial No. 263,571; published July 17, 1928. Class 11.

Wallace & Co., Brooklyn, N. Y. Chocolates and candies. 247,664; Oct. 2; Serial No. 267,284; published July 24, 1928. Class 46.

Warren Soap Manufacturing Company, Boston, Mass. Dry-cleaning soap preparation. 247,586; Oct. 2; Serial No. 265,866; published July 17, 1928. Class 4.

Watkins, J. R., Company, The, Winona, Minn. Roundworm capsules and tablets. 247,564; Oct. 2; Serial No. 266,632; published July 17, 1928. Class 6.

Wave-Bak Co. (See Fogel, Adolph.)

Waxolin, Inc., Omaha, Nebr. Dust-absorbing compounds. 247,738; Oct. 2; Serial No. 264,547; published July 10, 1928. Class 4.

Webb Belting Co., Kansas City, Mo. Belt for flour mills. 247,585; Oct. 2; Serial No. 265,867; published July 24, 1928. Class 35.

White Tar Company of New Jersey, Inc., The, Kearny, N. J. Garment bags of paper or cloth. 247,600; Oct. 2; Serial No. 263,628; published July 17, 1928. Class 2.

White Tar Company of New Jersey, Inc., The, Kearny, N. J. Garment bags. 247,601; Oct. 2; Serial No. 263,629; published July 24, 1928. Class 2.

Widmer's Grape Products Industry, Naples, N. Y. Grape juice. 247,712; Oct. 2; Serial No. 266,164; published July 24, 1928. Class 45.

Widmer's Grape Products Industry, Naples, N. Y. Grape juice. 247,713; Oct. 2; Serial No. 266,162; published July 24, 1928. Class 45.

Widmer's Grape Products Industry, Naples, N. Y. Grape juice. 247,714; Oct. 2; Serial No. 266,161; published July 24, 1928. Class 45.

Wiedeke, Gustave, Company, Dayton, Ohio. Tube and flue expanders, cutters, and beading tools. 247,697; Oct. 2; Serial No. 267,473; published July 17, 1928. Class 23.

Wiggins & Bean, Milford Square, Pa. Cigars. 247,547; Oct. 2; Serial No. 264,666; published July 24, 1928. Class 17.

Williams, Prentice W., doing business as Fruit Distributors Co. of California, Los Angeles, Calif. Fresh honeydew melons, vegetables, etc. 247,651; Oct. 2; Serial No. 256,985; published July 24, 1928. Class 46.

Williamson Heater Company, The, Cincinnati, Ohio. Electrically-driven air-circulating units for warm-air furnaces. 247,544; Oct. 2; Serial No. 264,626; published July 17, 1928. Class 34.

Wright, Leonard K., New York, N. Y. Refrigerating apparatus and parts or units thereof. 247,751; Oct. 2; Serial No. 250,214; published July 24, 1928. Class 31.

You-Tha-Gan Company. (See Baird, Walter.)

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alta Loma Vineyards Co. Inc., Cucamonga, Calif. Sun Ripe. For Fresh Grapes. 34,647; Oct. 2.

Balish, Fred A., & Bro., New York, N. Y. Gloria Florentine Linens. For Linens. 34,648; Oct. 2.

Bundschuh, H. H., Indio, Calif. Date Nut Loaf. For Health Dessert. 34,649; Oct. 2.

Defiance Spark Plugs, Inc., Toledo, Ohio. Defiance Spark Plugs. For Spark Plugs. 34,650; Oct. 2.

Doane, William, St. Louis, Mo. We' Brand Creamery Butter. For Butter. 34,651; Oct. 2.

Doane, William, St. Louis, Mo. Glencliff Creamery Butter. For Butter. 34,652; Oct. 2.

Eastern Stone Co. (See O'Connor, Patrick J.)

Garrett & Company, Inc., Cucamonga, Calif., and Brooklyn, N. Y. Garrett's Vineyard Bell. For Fresh Grapes. 34,653; Oct. 2.

Hongue-Sprague Corporation, Lynn, Mass. Quality Footwear. For Boxes. 34,654; Oct. 2.

Kafoure, Abraham W., doing business as Kafoure Chemical Co., Houston, Tex. Glan-A-Tone. For a Gland Tonic. 34,655; Oct. 2.

Krank, Alfred J., St. Paul, Minn. Tour-Ne-Sol. For a Face and Cleansing Cream. 34,656; Oct. 2.

La Blanca-Neve Washing Fluid Co. (See Oliveri, Salvatore.)

Lewis, Beth, White Sulphur Springs, W. Va. 4 Fruit Marmalade. For Marmalade. 34,657; Oct. 2.

Mayfair Company, Tulsa, Okla. M L's Mayfair Dandruff Cure and Hair Restorer. For Dandruff Cure and Hair Restorer. 34,658; Oct. 2.

McKee, W. C., doing business as Pepso-Ginger Company, Columbus, Ga. Pepso-Ginger. For Medicine for Indigestion, Sour or Acid Stomach, Gas, Etc. 34,659; Oct. 2.

O'Connor, Patrick J., doing business as Eastern Stone Co., New York, N. Y. Craft-Plaster. For Prepared Plaster Materials in Color to be Applied on Walls and Ceilings as a Textured Finish Coat. 34,660; Oct. 2.

Oliveri, Salvatore, doing business as La Blanca-Neve Washing Fluid Co., New York, N. Y. La Blanca Neve Washing Fluid. For Washing Fluid. 34,661; Oct. 2.

Oregon Paper Box Factory, Portland, Oreg. Playing Card, Candy Box Special. For Candy Boxes. 34,662; Oct. 2.

Pastene, P., & Co., Inc., doing business as Purity Products Co., Boston, Mass. La Napoletana. For Macaroni. 34,663; Oct. 2.

Pepso-Ginger Company. (See McKee, W. C.)

Podesta Import Co., San Francisco, Calif. A-Red-Hot-Tip. For Fresh Grapes. 34,664; Oct. 2.

Puritan Clothing Company, New York, N. Y. Maitland Aviation Coats. For Coats. 34,665; Oct. 2.

Purity Products Co. (See Pastene, P., & Co., Inc.)

Quaker Oil Products Corporation, Conshohocken, Pa. Stazrite Lubricant. For Lubricating Greases. 34,666; Oct. 2.

Southern Butter Company. (See Wilson, Mrs. E. I.)

Super Service Corporation, Omaha, Nebr. Super Service. For Full Molded Tube. 34,667; Oct. 2.

Super Service Corporation, Omaha, Nebr. Super Service. For Automobile Dust Cloth. 34,668; Oct. 2.

Terry, Taylor J., Minneapolis, Minn. Terry's Capsules. For Purely-Vegetable Tonic Laxative for the Liver, Kidneys, and Bowels. 34,669; Oct. 2.

Thurber, Bertha, Rochester, N. Y. Betsy's Best. For Kitchen Products, Such as Marmalades, Jams, Jellies, and Pickles. 34,670; Oct. 2.

West Penn Feed & Milling Company, West Brownsville, Pa. Vitality. For Malt Syrup. 34,671; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Palm Trees, Steamship and Coolies Carrying Bags of Coffee). For Coffee. 34,672; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Arabs Sitting Beside a Camel and Drinking Coffee). For Coffee. 34,673; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of American Pioneer and Log Cabin). For Coffee. 34,674; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Coffee Plantation). For Coffee. 34,675; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Coffee Beans and Leaves). For Coffee. 34,676; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Portrait of Arab). For Coffee. 34,677; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Coffee Plantation With Palm Trees in Foreground and Ship in Background). For Coffee. 34,678; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Eagle). For Coffee. 34,679; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Woman Holding Cup of Coffee and a Saucer). For Coffee. 34,680; Oct. 2.

Wilkins, John H., Company, Inc., Washington, D. C. Our Guarantee is Back of this Coffee (With Illustration of Persons Seated at Tables in Hotel Dining Room). For Coffee. 34,681; Oct. 2.

Wilson, Mrs. E. I., doing business as Southern Butter Company, Birmingham, Ala. Magic City Creamery Butter. For Butter. 34,682; Oct. 2.

Wisdom Supply Company, Los Angeles, Calif. Genuine Wisdom Detergent. For a Chemical Detergent. 34,683; Oct. 2.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Becker, Edw. M., Company, The, Cleveland, Ohio. Merrie-Time. For Candy. 11,244; Oct. 2.

Defiance Spark Plugs, Inc., Toledo, Ohio. Defiance Spark Plugs. For Spark Plugs. 11,245; Oct. 2.

Defiance Spark Plugs, Inc., Toledo, Ohio. Defiance Spark Plugs All-Cooled Oil Plug. For Spark Plugs. 11,246; Oct. 2.

Frederics, E., Inc., New York, N. Y. Frederics Vita-Tonic Compound Gray and White Shades. For a Compound for Waving Hair. 11,247; Oct. 2.

Frederics, E., Inc., New York, N. Y. Frederics Vita-Tonic Compound Brown and Dark Shades. For a Compound for Waving Hair. 11,248; Oct. 2.

Levy, Abraham, doing business as United Postal Card Co., Brooklyn, N. Y. New York City of Marvels. For Books Containing Views of New York City. 11,249–50; Oct. 2.

MacDougall, Alice Foote, & Sons, Inc., New York, N. Y. Just the Taste You've Longing for. For Coffee. 11,251; Oct. 2.

Roten, John, Wharton, Tex. Pulling for John Roten. For Hats. 11,252; Oct. 2.

Union Tobacco Company, The, Wilmington, Del., and New York, N. Y. Your Tongue Tells the Truth! Three Kings Satisfy Your Smoke Thirst. For Cigarettes. 11,253; Oct. 2.

Union Tobacco Company, The, Wilmington, Del., and New York, N. Y. Your Tongue Tells the Truth! Three Kings are Different. For Cigarettes. 11,254; Oct. 2.
United Postal Card Co. (See Levy, Abraham.)

Weisberg, Benjamin, Philadelphia, Pa. Wise Bow. For Neckties. 11,255; Oct. 2.
Wolfe, Jos., Inc., Newark, N. J. Jos. Wolfe, Inc. For Clothes for Men and Young Men. 11,256; Oct. 2.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aero Robe Co., Philadelphia, Pa. Cotton blanket bath robes, woolen, flannel, and rayon bath robes. 270,363; Oct. 2. Class 39.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet paper. 271,103–5; Oct. 2. Class 37.
American Lady Corset Co., Detroit, Mich. Combinations of brassières and girdles, brassières and corsets, etc. 268,017; Oct. 2. Class 39.
Arizona Citrus Growers, Phoenix, Ariz. Fresh citrus fruits. 271,330–1; Oct. 2. Class 46.
Atmore & Son, Inc., Philadelphia, Pa. Fruit jellies, jams, and preserves, etc. 260,453; Oct. 2. Class 46.
Benson-Le Fort Co., Moorhead, Minn. Fresh potatoes. 268,840; Oct. 2. Class 46.
Blanchard, E., doing business as Golden State Laboratories, Larkspur, Calif. Metal polish. 270,459; Oct. 2. Class 4.
Blume, Marcel, trading as Fairyland, Paris, France. Perfumery, lip sticks, etc. 264,960; Oct. 2. Class 6.
Bodle, R. D., Co., also doing business as Valley Fruit Canning Co., Seattle, Wash. Fresh, canned, and frozen fruits and fresh blackberries. 267,926–7; Oct. 2. Class 46.
Bolling, John E., doing business as Esten Bolling, East Orange, N. J. Printed books, booklets, sheets, etc. 269,179; Oct. 2. Class 38.
Bronx Home Products Company, The. (See Hellwell, Julius.)
Browncone Co. Inc., Jersey City, N. J. Chemical preparations or solutions. 266,787; Oct. 2. Class 6.
Buchman Manufacturing Company, Carnegie, Pa. Pillows and cushions. 270,828; Oct. 2. Class 32.
California Co-Operative Producers, San Francisco, Calif. Canned fruits, canned vegetables, etc. 271,337; Oct. 2. Class 46.
Carpinteria Mutual Citrus Association, Carpinteria, Calif. Fresh citrus fruits. 271,534; Oct. 2. Class 46.
Chrysler Corporation, Detroit, Mich. Vehicle hub caps. 270,016; Oct. 2. Class 19.
Citogel Gesellschaft für Chemische und Technische Erzeugnisse m. b. H., Hamburg, Germany. Refrigerator, beverage coolers, and ice-cream freezers. 262,152; Oct. 2. Class 31.
Clapp, Edwin, & Son, Inc., East Weymouth, Mass. Boots and shoes. 271,024; Oct. 2. Class 39.
Coats, Peter, doing business as Florimonde, Paisley, Scotland. Perfumery, toilet waters, lip sticks, etc. 269,394; Oct. 2. Class 6.
Cohen, Samuel, Brooklyn, N. Y. Daylight advertising signs, 269,886; Oct. 2. Class 50.
Conover, C. E., Company, The, New York, N. Y. Dress shields. 264,810; Oct. 2. Class 40.
Continental Pure Product Company. (See Polefsky, Jacob S.)
Corbett & North, New York, N. Y. Periodic publication. 268,532; Oct. 2. Class 38.
Corkran, Hill & Company, Incorporated, Baltimore, Md. Ham, bacon, and lard. 271,475; Oct. 2. Class 46.
Cubbison, Harry G., doing business as Cubbison Cracker Co., Los Angeles, Calif. Toast. 269,947; Oct. 2. Class 46.
Cummings, H. E., doing business as Livero Products Company, Jacksonville, Fla. Medicinal preparation. 269,062; Oct. 2. Class 6.
Currier, H. P., doing business as Currier Laboratories, Mendota, Ill. Medicine. 271,476; Oct. 2. Class 6.
Curtiss Candy Company, The, Chicago, Ill. Candy. 253,693; Oct. 2. Class 46.
Day, Fred J., doing business as Precooling Car Service Co., Los Angeles, Calif. Fresh vegetables, fresh melons, etc. 254,127; Oct. 2. Class 46.
De Nobili Cigar Company, New York, N. Y. Cigars. 270,075–6; Oct. 2. Class 17.
Dougherty Grape Growers Association, Acampo and Dougherty, Calif. Fresh grapes. 256,456; Oct. 2. Class 46.
Egan, Henry B., Muskogee, Okla. Tire-tube patches. 270,766; Oct. 2. Class 35.
Everlastik Knitting Mills, Inc., Philadelphia, Pa. Sweaters and bathing suits. 261,746; Oct. 2. Class 39.
Factor, Max, doing business as Max Factor & Co., Los Angeles, Calif. Theatrical make-ups. 269,104–5; Oct. 2. Class 6.
Factors-to-You Furniture Co. (See Goldberg, Michael.)
Fairyland. (See Blume, Marcel.)
Flintkote Company, The, Boston, Mass. Asphaltic material. 270,540–1; Oct. 2. Class 12.
Florimonde. (See Coats, Peter.)
Franklin, Charles B., doing business as Franklin Chemical Co., New York, N. Y. Insecticides. 271,485; Oct. 2. Class 6.
Friedman & Friedman, Brooklyn, N. Y. Sleeping garments. 271,300; Oct. 2. Class 39.
Froehlich, Robert M., doing business as Dr. Robert M. Froehlich, New York, N. Y. Alcohol massage lotions, body balms, cold cream, etc. 269,841; Oct. 2. Class 6.
Fromm, Frank H., doing business as F. H. Fromm & Company, Philadelphia, Pa. Canned fish. 260,328; Oct. 2. Class 46.
Garlock Packing Company, The, Palmyra, N. Y. Cord plugs for cleaning condenser tubes. 270,837; Oct. 2. Class 13.
Garoni Mfg. Co., Chicago, Ill. Garlic juice, garlic flavor, and onion flavor. 264,576; Oct. 2. Class 46.
Gelles, Max, doing business as Gelles Neckwear Co., Boston, Mass. Men's necktles and mufflers. 269,233; Oct. 2. Class 39.
General Color Products Co., Chicago, Ill. Sign plates. 269,522; Oct. 2. Class 50.
General Footwear Corporation, New York, N. Y. Boots and shoes. 269,653; Oct. 2. Class 39.
Gilkison, E. P., & Sons Company, Terre Haute, Ind. Camping trailers. 270,744; Oct. 2. Class 19.
Gmeinder, Charles L., jr., Macon, Ga. Portable home savings bank. 230,392; Oct. 2. Class 25.
Gold Banner Association, Redlands, Calif. Fresh citrus fruits. 254,133; Oct. 2. Class 46.
Goldberg, Michael, doing business as Factors-to-You Furniture Co., Philadelphia, Pa. China closets, buffets, serving tables, etc. 230,789; Oct. 2. Class 32.
Goldberg, Samuel, Cincinnati, Ohio. Cloaks, suits, capes, etc. 243,756; Oct. 2. Class 39.
Golden State Laboratories. (See Blanchard, E.)
Haram, S. A., & Co. Inc., New York, N. Y. Sardines canned in olive oil. 205,333; Oct. 2. Class 46.
Harris & Filler Co., The, Frederick, Md. Canned vegetables. 271,385; Oct. 2. Class 46.
Heckmann, Eugene, doing business as E. Heckmann & Sons, Buffalo, N. Y. Malt syrup. 269,844; Oct. 2. Class 46.
Hellwell, Julius, doing business as The Bronx Home Products Company, New York, N. Y. Malt syrup. 270,885; Oct. 2. Class 46.
Henry, John B., New Orleans, La. Boots, slippers, and shoes. 269,349; Oct. 2. Class 39.
High-Test Extract Co., Chicago, Ill. Malt syrup. 271,048; Oct. 2. Class 46.
Hoffheimer, Harry W., doing business as Velco Laboratories, Chicago, Ill. Cleaner and polish of glass and glassware. 271,303; Oct. 2. Class 4.
Hutchins, John B., Houston, Tex. Salve. 270,492; Oct. 2. Class 6.
Independent Growers Packing Company, San Jose, Calif. Dried prunes. 271,304; Oct. 2. Class 46.
Janszen Company, The, doing business as Janszen Grocery Company, Cincinnati, Ohio. Wall-paper cleaner. 266,593; Oct. 2. Class 4.
Japanese Fan Company, New York, N. Y. Decorative novelties. 266,250; Oct. 2. Class 34.
Jeffrey Manufacturing Company, The, Columbus, Ohio. Excavating, elevating, and conveying machinery. 270,247; Oct. 2. Class 23.
Joahnes Brothers Company, Green Bay, Wis. Malt syrup. 269,900; Oct. 2. Class 46.
Johnson, James T., jr., Scranton, Pa. Sleeping garments. 269,528; Oct. 2. Class 39.
Kenny, C. D., Co., Baltimore, Md. Coffee. 271,441; Oct. 2. Class 46.
Kohnstamm, H., & Co., Inc., New York, N. Y. Soap powder. 268,162; Oct. 2. Class 4.
Le-Mul Mfg. Co., St. Paul, Minn. Pop corn. 262,719; Oct. 2. Class 46.
Leschin Millinery Co., Inc., New York, N. Y. Women's hats. 230,529–30; Oct. 2. Class 39.
Lewis, G. B., Company, Watertown, Wis. Structural toys. 270,252; Oct. 2. Class 22.
Link, Dr. William A., doing business as Dr. Link Medicine Company, and Link's Laboratories, Dallas, Tex. Cleansing cream, rose lotion, shampoo, etc. 270,085; Oct. 2. Class 6.
Livero Products Company. (See Cummings, H. E.)
Luce Packing Company, Lucedale, Miss. Canned fruits and vegetables. 267,431; Oct. 2. Class 46.
Ludy, Peter D., Boston, Mass. Leather-treating emulsions. 264,315; Oct. 2. Class 4.
Lysons, J. Will, New York, N. Y. Shaving-brush device for applying shaving creams and similar preparations. 270,132; Oct. 2. Class 29.
Mangels-Herold Co., Inc., Baltimore, Md. Compound of corn syrup, refiner's syrup, etc. 270,086; Oct. 2. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Master, Aaron, Brooklyn, N. Y. Board games. 269,904; Oct. 2. Class 22.
McIntyre, William A., Beavercreek, Oreg. Preparation used in exterminating Canadian thistle. 269,130; Oct. 2. Class 6.
McMillan, J. T., Co., St. Paul, Minn. Ham and bacon. 264,620; Oct. 2. Class 46.
Mentho Septo Co. (See Smith, Wallace B.)
Meyer Furnace Company, The, Peoria, Ill. Furnaces. 270,641; Oct. 2. Class 34.
Milwaukee Delicatessen, Inc., Lincoln, Nebr. Malt extract. 271,139; Oct. 2. Class 46.
Morris, Rose, doing busines as Morris Company, Pittsfield, Mass. Hem gauge for measuring the hem of garments. 269,621; Oct. 2. Class 26.
Moth Aircraft Corporation, New York, N. Y. Airplanes. 270,386; Oct. 2. Class 19.
Mueller Co., Decatur, Ill. Faucets. 261,274; Oct. 2. Class 13.
Mutual Stores, Inc., Oakland, Calif. Pure sage honey, relish spread, fish, etc. 264,496; Oct. 2. Class 46.
New Haven Silk Hosiery Co., New Haven, Ind. Ladies' hosiery. 259,817; Oct. 2. Class 39.
Nojiri, Nobuzo, doing business as Nojiri Fruit Company, Sacramento, Calif. Fresh vegetables and fruits. 270,714; Oct. 2. Class 46.
Norm Manufacturing Co. (See Thurston, Walter R.)
North American Mercantile Company, San Francisco, Calif. Canned beef. 269,741; Oct. 2. Class 46.
Old Dutch Mills, Inc., New York, N. Y. Coffee, tea, and cocoa. 262,764; Oct. 2. Class 46.
Orr, J. K., Shoe Company, The, Atlanta, Ga. Shoes. 269,311; Oct. 2. Class 39.
Pacific Trading Co., Inc., San Francisco, Calif. Canned vegetables. 269,742; Oct. 2. Class 46.
Padberg, Albert, Elberfeld, Germany. Ink ribbons and carbon paper. 270,779; Oct. 2. Class 11.
Page Milling Co., The, Luray, Va. Wheat flour, self-rising flour, etc. 267,821; Oct. 2. Class 46.
Pittsburgh Provision and Packing Company, Pittsburgh, Pa. Boneless boiled ham, sugar-cured calas, etc. 210,316; Oct. 2. Class 46.
Polefsky, Jacob S., doing business as Continental Pure Product Company, New York, N. Y. Beverage and a concentrate for making the same. 267,210; Oct. 2. Class 45.
Precooling Car Service Co. (See Day, Fred J.)
Premier Beverage Company, Chicago, Ill. Ginger ale. 270,604; Oct. 2. Class 45.
Rail Steel Bar Association, Chicago, Ill. Educational bulletins and literature. 269,426; Oct. 2. Class 38.
Railway Motors Corporation, De Pere, Wis. Roller bearings and parts thereof. 270,558; Oct. 2. Class 23.
Research Products Company, Los Angeles, Calif. Medical preparation. 270,051; Oct. 2. Class 6.
Resinous Products & Chemical Company, The, Philadelphia, Pa. Synthetic or chemically-prepared resins. 269,622; Oct. 2. Class 6.
Rey Safety Razor Corporation, New York, N. Y. Razor blades. 271,147; Oct. 2. Class 23.
Rhenania-Kunheim Verein Chemischer Fabriken A.-G., Berlin, Germany. Chemicals. 268,464; Oct. 2. Class 6.
Rothblum, Ben, New York, N. Y. Dresses and coats. 269,984; Oct. 2. Class 39.
Safeway Stores, Inc., Los Angeles, Calif. Ginger ale. 271,362; Oct. 2. Class 45.
Schumann, William, West New York, N. J. Package nuts. 270,511; Oct. 2. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Incubators. 269,692; Oct. 2. Class 50.
Senoln Drug Co., Chicago, Ill. Ointments. 270,354; Oct. 2. Class 6.
Siegelman Laboratories, Inc., Los Angeles, Calif. Cosmetic preparation. 269,747; Oct. 2. Class 6.
Smith-Young Company. 269,747; Oct. 2. Class 6.
Smith, Wallace B., doing business as Mentho Septo Co., Fort Worth, Tex. Douche powder. 269,864; Oct. 2. Class 6.
Snyder, Edgar D., doing business as Snyder's Dairy, Hazleton and Bloomsburg, Pa. Milk, cream, chocolate milk, etc. 252,981; Oct. 2. Class 46.
Spear, Gilbert I., Westbrook, Me. Automobile cleaner and automobile polishing solution. 267,870; Oct. 2. Class 16.
Sprague, Warner & Company, Chicago, Ill. Canned fruit. 269,057; Oct. 2. Class 46.
Stamford Foundry Company, The, Stamford, Conn. Pot, pan, and kettle holders. 269,490; Oct. 2. Class 34.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. White oil for chemical, etc., purposes. 269,803; Oct. 2. Class 6.
Standard Oil Company of New Jersey, Wilmington, Del. Hydrocarbon solvents. 262,419; Oct. 2. Class 4.
Standard Oil Company of New Jersey, Wilmington, Del. Hydrocarbon solvents. 262,422; Oct. 2. Class 16.
Superior Felt & Bedding Co., Chicago, Ill. Mattresses. 271,151; Oct. 2. Class 32.
Tartikoff, J., & Sons, New York, N. Y. Children's outer suits. 269,869; Oct. 2. Class 39.
Tea Garden Products Co., San Francisco, Calif. Table syrup. 269,806; Oct. 2. Class 46.
Tea Garden Products Co., San Francisco, Calif. Molasses. 269,808; Oct. 2. Class 46.
Thurston, Walter R., doing business as Norm Manufacturing Co., Los Angeles, Calif. Sealing compound. 266,841; Oct. 2. Class 5.
Tootie-Campbell Dry Goods Company, St. Joseph, Mo. Cotton piece goods. 270,810; Oct. 2. Class 42.
Trusas, William D., Redding, Calif. Confection. 271,325; Oct. 2. Class 46.
Tuxedo Hat Body Corporation, The, New York, N. Y. Felt bodies for ladies' hats. 258,365; Oct. 2. Class 39.
United States Knitting Co. Inc., Central Falls, R. I. Wool piece goods. 270,525; Oct. 2. Class 42.
Val Blatz Brewing Company, Milwaukee, Wis. Malt syrup. 270,617; Oct. 2. Class 46.
Valley Fruit Canning Co. (See Bodle, R. D., Co.)
Velco Laboratories. (See Hoffheimer, Harry W.)
Webster, William A., Company, The, Memphis, Tenn. Shaving-soap cream. 268,011; Oct. 2. Class 4.
Wells, S. C., & Company, Le Roy, N. Y. Herb tea. 262,637; Oct. 2. Class 6.
West Bend Aluminum Company, West Bend, Wis. Aluminum pots, pans, kettles, etc. 253,169; Oct. 2. Class 13.
Whitney-Eckstein Seed Co., Buffalo, N. Y. Seeds. 270,639; Oct. 2. Class 1.
Wilcox Hayes Co., Portland, Oreg. Lumber and lumber products. 270,065; Oct. 2. Class 12.
Young, Randal, doing business as Smith-Young Company, Cincinnati, Ohio. Paint and varnish brushes. 269,563; Oct. 2. Class 29.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Bags, Garment. White Tar Company of New Jersey, Inc. 247,601; Oct. 2; Serial No. 263,629; published July 24, 1928.
Bags of paper or cloth, Garment. White Tar Company of New Jersey, Inc. 247,600; Oct. 2; Serial No. 263,628; published July 17, 1928.
Plates, candy boxes, boudoir boxes, etc. L. C. Laub. 247,582; Oct. 2; Serial No. 265,971; published July 24, 1928.

CLASS 4.

Cleaner, Antiseptic chemical. C. H. Briggs. 247,732; Oct. 2; Serial No. 265,317; published July 17, 1928.
Cleansing preparation. M. Bedrosian. 247,593; Oct. 2; Serial No. 265,775; published July 10, 1928.
Compounds, Dust-absorbing. Waxolin, Inc. 247,738; Oct. 2; Serial No. 264,547; published July 10, 1928.
Glass balls. Akro Agate Company. 247,554; Oct. 2; Serial No. 264,797; published July 17, 1928.
Powder, Scouring. I. Bokeach & Sons, Inc. 247,568; Oct. 2; Serial No. 266,622; published July 10, 1928.
Soap preparation, Dry-cleaning. Warren Soap Manufacturing Company. 247,586; Oct. 2; Serial No. 265,866; published July 17, 1928.
Soaps, polishes, and the like. J. C. Shepard. 247,596; Oct. 2; Serial No. 265,700; published June 19, 1928.
Washing and cleaning compound. Dox Company. 247,761; Oct. 2; Serial No. 266,855; published July 10, 1928.

CLASS 6.

Antifreeze solution. J. Buchanan. 247,687; Oct. 2; Serial No. 267,831; published July 17, 1928.
Antiseptic preparation. W. S. Drum. 247,756; Oct. 2; Serial No. 241,656; published July 17, 1928.
Capsules and tablets, Roundworm. J. R. Watkins Company. 247,564; Oct. 2; Serial No. 266,632; published July 17, 1928.
Chemical preparation. R. M. Palmer. 247,666; Oct. 2; Serial No. 267,271; published July 17, 1928.
Chemical product. Chemische Fabrik Jacobus G. m. b. H. 247,604; Oct. 2; Serial No. 263,859; published July 17, 1928.
Chemical products for industrial, scientific, and photographic purposes. I. G. Farbenindustrie Aktiengesellschaft. 247,656; Oct. 2; Serial No. 256,180; published July 17, 1928.
Cod-liver oil. Ayerst, McKenna & Harrison Limited. 247,645; Oct. 2; Serial No. 237,770; published July 10, 1928.
Coloring for cheese, butter, etc. Preservaline Manufacturing Co. 247,665; Oct. 2; Serial No. 267,275; published July 17, 1928.

Compound, Antiknock. Seymour-Howard Corporation. 247,642; Oct. 2; Serial No. 259,025; published July 10, 1928.
Compound, Healing. I. A. Arnold. 247,710; Oct. 2; Serial No. 266,182; published July 10, 1928.
Compound or preparation for curing preserved meats. H. J. Mayer and Sons Company. 247,810; Oct. 2.
Compounds for the treatment of diabetes and hypertension. Les Etablissements Poulenc Freres. 247,603; Oct. 2; Serial No. 263,709; published July 10, 1928.
Cough syrups, cold tonic, earache oil, etc. V. F. Kring. 247,629; Oct. 2; Serial No. 262,466; published July 10, 1928.
Creams, Face. Helena Rubinstein, Inc. 247,845; Oct. 2; Serial No. 252,291; published July 10, 1928.
Deodorant, Foot. Odor-Nox Chemical Co. 247,699; Oct. 2; Serial No. 267,074; published July 17, 1928.
Deodorants, revitalizers, liquid sprays, etc. T. W. Hicks. 247,618; Oct. 2; Serial No. 264,430; published July 10, 1928.
Dressings, Finger-nail. Lustrite Corporation. 247,735; Oct. 2; Serial No. 265,160; published July 10, 1928.
Dyes, Food Materials Corporation. 247,574; Oct. 2; Serial No. 266,521; published July 17, 1928.
Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 247,724–5; Oct. 2; Serial Nos. 265,427–8; published July 10, 1928.
Eau de cologne. Johann Maria Farina, Inc. 247,552; Oct. 2; Serial No. 264,723; published July 10, 1928.
Hair wash, Liquid. A. Fogel. 247,726; Oct. 2; Serial No. 265 374; published July 10, 1928.
Incense. M. I. Kitchlew. 247,548; Oct. 2; Serial No. 264,689; published July 17, 1928.
Incense. S. C. Nandi. 247,746; Oct. 2; Serial No. 251,977; published July 17, 1928.
Insecticides. Balfour, Guthrie & Co. 247,540; Oct. 2; Serial No. 264,552; published July 10, 1928.
Insecticides. I. G. Farbenindustrie Aktiengesellschaft. 247,711; Oct. 2; Serial No. 266,168; published July 10, 1928.
Laxative and aperient, Saline. Okla Water Co. 247,778; Oct. 2; Serial No. 266,947; published July 17, 1928.
Laxative lollypops. J. Friedlieb. 247,744; Oct. 2; Serial No. 252,468; published July 10, 1928.
Laxatives. A. M. Hopper. 247,649; Oct. 2; Serial No. 257,068; published July 10, 1928.
Laxatives, National Magnesia Co. Inc. 247,577; Oct. 2; Serial No. 266,473; published July 10, 1928.
Laxatives. National Magnesia Co. Inc. 247,578; Oct. 2; Serial No. 266 472; published July 17, 1928.
Lime. United States Lime Products Corporation. 247,641; Oct. 2; Serial No. 259,265; published July 10, 1928.
Liniment. Bob Clinton Mfg. Co. 247,709; Oct. 2; Serial No. 266,190; published July 10, 1928.
Liniment. Dr. Earl S. Sloan Incorporated. 247,636; Oct. 2; Serial No. 261,024; published June 12, 1928.
Lip stick. A. J. Krank Mfg. Co. 247,592; Oct. 2; Serial No. 265,797; published July 10, 1928.
Liquid, Antifreezing. J. W. Mackewicz. 247,773; Oct. 2; Serial No. 262,366; published July 17, 1928.
Liquid fuel for cigar and cigarette lighters. Lytzo Company. 247 605; Oct. 2; Serial No. 263,877; published July 10, 1928.
Lotion, Skin. Snelson & Sons. 247,772; Oct. 2; Serial No. 260,919; published July 10, 1928.
Lotions, face creams, powders, etc., Face. A. Mast. 247,737; Oct. 2; Serial No. 264,996; published July 10, 1928.
Medicated chewing gum, tooth powder, etc. Goodrich-Eshbaugh Chemical Laboratories, Inc. 247,583; Oct. 2; Serial No. 265,900; published July 10, 1928.
Medicinal preparation. Beeman's Laboratory Inc. 247,794; Oct. 2.
Medicinal preparation. M. Grey. 247,617; Oct. 2; Serial No. 264,490; published July 10, 1928.
Medicinal preparation. W. Lilles. 247,813; Oct. 2.
Medicinal preparation for the treatment of rheumatism, etc. A. Muscarello. 247,561; Oct. 2; Serial No. 266,679; published July 17, 1928.
Medicinal preparations and products. S. Pfeiffer Mfg. Co. 247,542; Oct. 2; Serial No. 264,602; published July 10, 1928.
Medicine. R. E. Parrish. 247,733; Oct. 2; Serial No. 265,289; published July 17, 1928.
Medicine for stomach ailments. G. Sotiriades. 247,634; Oct. 2; Serial No. 261,843; published July 10, 1928.
Medicine for treatment of eczema, itch, etc. Sporel Mfg. Co. 247,599; Oct. 2; Serial No. 265,580; published July 10, 1928.
Medicine, Hair application and mange. H. Clay Glover Co., Inc. 247,569; Oct. 2; Serial No. 266,590; published July 17, 1928.
Medicine, Prepared. Brothers Corporation. 247,619; Oct. 2; Serial No. 263,373; published July 17, 1928.
Medicines. Mrs. F. J. Mazy. 247,770; Oct. 2; Serial No. 260,398; published July 10, 1928.
Medicines, Laxative. H. L. Sample. 247,566; Oct. 2; Serial No. 266,624; published July 17, 1928.
Ointment. E. J. Hart & Co. Ltd. 247,776; Oct. 2; Serial No. 266,990; published July 17, 1928.
Ointment. Dr. R. L. Richardson. 247,793; Oct. 2; Serial No. 260,368; published July 10, 1928.
Perfume. Andrew Jergens Company. 247,571; Oct. 2; Serial No. 266,573; published July 17, 1928.
Perfume, face powder, talcum powder, etc. Societe Anonyme Donge. 247,706; Oct. 2; Serial No. 266,279; published July 17, 1928.
Perfumes, toilet waters, talcum, etc. Schettler Drug Company. 247,556; Oct. 2; Serial No. 264,847; published July 10, 1928.
Perfumery, face cream and powder, rouge, and nail varnish. A. Perugia. 247,791; Oct. 2; Serial No. 260,135; published June 12, 1928.
Pharmaceutical preparation. F. A. Diaz. 247,701; Oct. 2; Serial No. 266,419; published July 10, 1928.
Pharmaceutical preparation. Sha-O-Chem Company. 247,758; Oct. 2; Serial No. 249,608; published July 10, 1928.
Plasters, healing powder, etc., Belladonna. Scott & Gilbert Co. 247,549; Oct. 2; Serial No. 264,702; published July 10, 1928.
Powder, Talcum. Palmolive-Peet Company. 247,627; Oct. 2; Serial No. 262,768; published July 17, 1928.
Preparation for coughs, colds, croup, etc. J. C. Brasher. 247,633; Oct. 2; Serial No. 261,938; published July 10, 1928.
Preparation for permanent hair waving. P. McIntosh. 247,567; Oct. 2; Serial No. 266,603; published July 17, 1928.
Preparation for the treatment of hair and scalp. Herpicide Company. 247,702; Oct. 2; Serial No. 266,372; published July 10, 1928.
Preparation for the treatment of rheumatism, sciatica, etc. A. Allaniello. 247,590; Oct. 2; Serial No. 265,823; published July 10, 1928.
Preparation, Hygienic, prophylactic, and antiseptic. Grape Capsule Company. 247,700; Oct. 2; Serial No. 266,423; published July 17, 1928.
Preparation, Tissue-building. C. W. Green. 247,780; Oct. 2; Serial No. 266,926; published July 17, 1928.
Remedies, Dog. Certified Dog Remedies. 247,640; Oct. 2; Serial No. 259,620; published July 17, 1928.
Resins, Synthetic. Ellis-Foster Company. 247,727; Oct. 2; Serial No. 265,370; published July 10, 1928.
Resins, Synthetic or chemically-prepared. Resinous Products and Chemical Company. 247,576; Oct. 2; Serial No. 266,483; published July 10, 1928.
Rouge and lip sticks, Lip. Coty, Inc. 247,551; Oct. 2; Serial No. 264,715; published July 10, 1928.
Salve preparations including facial creams, Skin. Beauty Research Laboratories, Inc. 247,553; Oct. 2; Serial No. 264,748; published July 17, 1928.
Salve, tonic, and lotion, toilet cream, etc. Marie Earle, Inc. 247,632; Oct. 2; Serial No. 261,970; published July 10, 1928.
Stuffing agent. I. G. Farbenindustrie Aktiengesellschaft. 247,570; Oct. 2; Serial No. 266,588; published July 17, 1928.
Sweet spirits of nitre, witch-hazel, etc. S. Rugof. 247,626; Oct. 2; Serial No. 262,771; published July 10, 1928.
Tablets. Carr Chemical Company. 247,562; Oct. 2; Serial No. 266,646; published July 17, 1928.
Toilet water, cold cream, vanishing cream, etc. Peoples Drug Stores, Inc. 247,719; Oct. 2; Serial No. 265,009; published July 10, 1928.
Tonic. Simms Drug Co. 247,648; Oct. 2; Serial No. 257,203; published July 10, 1928.
Tonic and blood purifier, Vegetable. Vermilya Medicine Company. 247,678; Oct. 2; Serial No. 267,100; published July 17, 1928.
Tonic, Hair. O. R. Huribut. 247,755; Oct. 2; Serial No. 241,054; published Jan. 18, 1927.
Tonic, Hair. K. Stalus. 247,655; Oct. 2; Serial No. 256,748; published July 10, 1928.
Tonic, Nerve. W. Baird. 247,625; Oct. 2; Serial No. 262,994; published July 10, 1928.

CLASS 7.

Cords and twines. Samson Cordage Works. 247,579; Oct. 2; Serial No. 266,048; published July 17, 1928.

CLASS 9.

Firecrackers. Pyro Importing Company. 247,686; Oct. 2; Serial No. 267,857; published July 24, 1928.
Gun wadding. American Hair Felt Company. 247,789; Oct. 2; Serial No. 268,335; published July 24, 1928.

CLASS 11.

Inks and ink powders. G. Wagner. 247,558; Oct. 2; Serial No. 263,571; published July 17, 1928.

CLASS 12.

Brick. Acme Brick Company. 246,806; Oct. 2.
Brick. Acme Brick Company. 247,796; Oct. 2.
Shingles, Prepared. Barrett Company. 247,802; Oct. 2.

CLASS 13.

Hinges. McKinney Manufacturing Company. 247,663; Oct. 2; Serial No. 267,309; published July 24, 1928.
Hinges, pivots, holders, etc., Door and casement. Oscar C. Rixson Company. 247,587; Oct. 2; Serial No. 265,856; published July 24, 1928.

CLASS 14.

Castings. Fulton Harwood Brass & Aluminum Co. 247,588; Oct. 2; Serial No. 265,835; published July 17, 1928.

CLASS 16.

Glazes, paints, lacquers, etc. Duo-Iz Products Corp. 247,602; Oct. 2; Serial No. 263,697; published July 17, 1928.
Paint enamel. Arco Company. 247,729–30; Oct. 2; Serial Nos. 265,357–8; published July 17, 1928.
Paints, lacquer, varnish, etc. Paint Engineers, Inc. 247,597; Oct. 2; Serial No. 265,683; published July 17, 1928.
Paints, varnishes, enamels, and stains. Furolin Paint Mfg. Co. 247,734; Oct. 2; Serial No. 265,204; published July 17, 1928.
Varnish, Specially-prepared. Frank W. Dunne Co. 247,707; Oct. 2; Serial No. 266,801; published July 17, 1928.

CLASS 17.

Cigars. Coraza Cigar Company. 247,684; Oct. 2; Serial No. 267,887; published July 24, 1928.
Cigars. Wiggins & Bean. 247,547; Oct. 2; Serial No. 264,666; published July 24, 1928.
Cigars, cheroots, etc. M. Trelles & Company. 247,795; Oct. 2.

CLASS 19.

Automobiles. Buffalo Commercial Body Co. Inc. 247,615; Oct. 2; Serial No. 264,349; published July 10, 1928.
Automobiles. Paul G. Hoffman Co. Inc. 247,798; Oct. 2.
Closures. Easy-On Cap Company. 247,616; Oct. 2; Serial No. 264,306; published July 17, 1928.
Trucks and busses and their structural parts, Motor. Amplex Manufacturing Company. 247,614; Oct. 2; Serial No. 264,345; published July 17, 1928.

CLASS 20.

Linoleum, cork carpet, etc. Armstrong Cork Company. 247,581; Oct. 2; Serial No. 266,012; published July 24, 1928.

CLASS 22.

Balls, Inflatable rubber. W. J. Volt. 247,808; Oct. 2.
Baseball bats. Hillerich & Bradsby Co. 247,779; Oct. 2; Serial No. 266,935; published July 17, 1928.
Baseballs, tennis-racket presses, tennis bags, posts, etc. A. J. Reach Company. 247,545; Oct. 2; Serial No. 264,655; published July 17, 1928.
Fishing lines, Silk. W. H. L. Alfred. 247,635; Oct. 2; Serial No. 261,730; published July 17, 1928.
Game, Table. A. W. Andrews. 247,589; Oct. 2; Serial No. 265,824; published July 17, 1928.
Game, Table. M. Livingston. 247,722; Oct. 2; Serial No. 265,484; published July 17, 1928.
Golf club. C. S. Butchart. 247,809; Oct. 2.

CLASS 23.

Accelerator and brake pedal for automobiles, Combination. G. R. Powell. 247,757; Oct. 2; Serial No. 248,252; published July 24, 1928.
Apparatus for adding moisture to textile fibres and other raw materials. Hygrolit Incorporated. 247,573; Oct. 2; Serial No. 266,541; published July 24, 1928.
Deckling and beveling machines, paper-cup-making and adhesive-applying machines. Lester & Wasley Co. 247,777; Oct. 2; Serial No. 267,001; published July 24, 1928.
Dispensing apparatus, and parts thereof, Fertilizer. Vex Sales Corporation. 247,677; Oct. 2; Serial No. 267,101; published July 24, 1928.
Emulsifying apparatus and parts thereof. National Mayonnaise Machine Co. 247,691; Oct. 2; Serial No. 267,662; published July 24, 1928.
Files and rasps. Arcade File Works. 247,659; Oct. 2; Serial No. 267,401; published July 24, 1928.
Grinding and crushing machines, etc. Deutsche Huragan Gesellschaft m. b. H. 247,639; Oct. 2; Serial No. 259,712; published July 24, 1928.
Knives, scissors, shears, etc. J. A. Henckels. 247,624; Oct. 2; Serial No. 263 003; published July 24, 1928.
Lubricating devices. Decrow Automotive Specialties, Inc. 247,668; Oct. 2; Serial No. 267,247; published July 24, 1928.
Machines, Thermostatically-operated parts of. Autostat Limited. 247,631; Oct. 2; Serial No. 262,146; published July 24, 1928.
Milk stools. James Manufacturing Company. 247,774; Oct. 2; Serial No. 267,055; published July 24, 1928.
Needles, Sewing-machine. L. Lammertz. 247,638; Oct. 2; Serial No. 261 578; published July 24, 1928.
Printing machines. Addressograph Company. 247,594; Oct. 2; Serial No. 265,766; published July 24, 1928.
Pumps and pump parts. Ranchers' Manufacturing Company. 247,797; Oct. 2.
Razors, Safety. Auto Strop Safety Razor Company. 247,674; Oct. 2; Serial No. 267,182; published July 24, 1928.
Sprayers, spray pumps, etc. D. B. Smith & Company. 247,762; Oct. 2; Serial No. 266,833; published July 24, 1928.
Tool sets. Vichek Tool Company. 247,543; Oct. 2; Serial No. 264,619; published July 24, 1928.
Tools, Automobile rim. Hercules Products Company. 247,671–2; Oct. 2; Serial Nos. 267,194–5; published July 24, 1928.
Tube and flue expanders, cutters, and beading tools. Gustav Wiedeke Company. 247,697; Oct. 2; Serial No. 267,473; published July 17, 1928.

CLASS 24.

Washing machines and parts thereof, Household. Speeday Manufacturing Company. 247,647; Oct. 2; Serial No. 257,515; published July 24, 1928.
Washing machines, Copper-tub electric clothes-. Sears, Roebuck and Co. 247,565; Oct. 2; Serial No. 266,626; published July 24, 1928.

CLASS 26.

Cameras. B. Brooks. 247,692; Oct. 2; Serial No. 267,632; published July 24, 1928
Measuring the hardness of materials, Apparatus for. Shore Instrument & Mfg. Co. 247 658; Oct. 2; Serial No. 255,422; published July 24, 1928.
Scales, counting machines, dynamometers, etc., Weighing. Toledo Scale Company. 247,718; Oct. 2; Serial No. 266,056; published July 24, 1928.

CLASS 28.

Earrings, finger rings, anklets, etc. Kaufman & Ruderman Co. Inc. 247,622; Oct. 2; Serial No. 263,158; published July 17, 1928.

CLASS 29.

Brooms. Janszen Company. 247,708; Oct. 2; Serial No. 266,248; published July 10, 1928.
Brushes. Cleaves Manufacturing Co. 247,753; Oct. 2; Serial No. 229,160; published July 10, 1928.

CLASS 31.

Refrigerating apparatus and parts or units thereof. L. K. Wright. 247,751; Oct. 2; Serial No. 250,214; published July 24, 1928.

CLASS 32.

Chairs, benches, and tables, Collapsible. Torrington Specialty Company, Inc. 247,696; Oct. 2; Serial No. 267,520; published July 24, 1928.
Chairs, tables, and seats. H. A. Thorndike. 247,790; Oct. 2; Serial No. 260,036; published July 24, 1928.
Files, Stationery. Ravenswood Office Specialties Company. 247,644; Oct. 2; Serial No. 258,041; published July 24, 1928.
Furniture, Store. Columbus Show Case Co. 247,650; Oct. 2; Serial No. 257,050; published July 24, 1928.
Tables, Extension. John Bellocchio. 247,760; Oct. 2; Serial No. 266,911; published July 24, 1928.
Window display fixtures. St. Louis Window Display Fixture Company. 247,637; Oct. 2; Serial No. 261,151; published July 24, 1928.

CLASS 33.

Glass, Flat. Blue Ridge Glass Corporation. 247,669; Oct. 2; Serial No. 267,227; published July 24, 1928.

CLASS 34.

Furnaces. Holland Furnace Company. 247,608; Oct. 2; Serial No. 264,107; published July 17, 1928.
Furnaces, Electrically-driven air-circulating units for warm-air. Williamson Heater Company. 249,544; Oct. 2; Serial No. 264,626; published July 17, 1928.
Lamp utilizing luminous substances. G. M. Coram. 247,606; Oct. 2; Serial No. 264,018; published July 17, 1928.
Lamps and shades and parts thereof and gas mantles. Fred Butterfield & Co. 247,610; Oct. 2; Serial No. 264,284; published July 10, 1928.
Ventilators, Sash. Linz Ventilator Company. 247,538; Oct. 2; Serial No. 264,592; published July 10, 1928.

CLASS 35.

Belt for flour mills. Webb Belting Co. 247,585; Oct. 2; Serial No. 265,867; published July 24, 1928.
Belts, hose, and packing. Manhattan Rubber Mfg. Co. 247,742; Oct. 2; Serial No. 253,850; published July 24, 1928.
Hose. Norman L. Kuehn. 247,676; Oct. 2; Serial No. 267,130; published July 24, 1928.
Hose, Conducting. B. F. Goodrich Company. 247,812; Oct. 2.
Tires and tubes, Auto. Southern Tire and Rubber Company. 247,662; Oct. 2; Serial No. 267,321; published July 24, 1928.

CLASS 36.

Cymbals. Fred. Gretsch Mfg. Co. 247,623; Oct. 2; Serial No. 263,083; published July 17, 1928.

CLASS 37.

Paper, Toilet. Fort Howard Paper Company. 247,803; Oct. 2.

CLASS 38.

Dictionaries, Bibles, and classics. M. Miskus. 247,660; Oct. 2; Serial No. 267,373; published July 17, 1928.
Journal, Trade. Practical Publication, Inc. 247,733; Oct. 2; Serial No. 265,344; published July 17, 1928.
Magazine. Nash-Breyer Motor Company. 247,667; Oct. 2; Serial No. 267,269; published July 17, 1928.
Magazine, Department or section of a. Jacobsen Publishing Company. 247,559; Oct. 2; Serial No. 266,734; published July 17, 1928.

Magazine, Section or department of a monthly. Review of Reviews Corporation. 247,720; Oct. 2; Serial No. 265,566; published July 10, 1928.
Newspaper, Daily. Macfadden Publications Incorporated. 247,591; Oct. 2; Serial No. 265,799; published July 10, 1928.
Newspaper supplements. B. F. Provandie. 247,707; Oct. 2; Serial No. 266,270; published July 17, 1928.
Periodical. Price Current-Grain Reporter. 247,670; Oct. 2; Serial No. 267,211; published July 17, 1928.
Program, Weekly radio. Bankers Life Company. 247,560; Oct. 2; Serial No. 266,705; published July 17, 1928.
Publication. Berger Manufacturing Company. 247,775; Oct. 2; Serial No. 267,029; published July 17, 1928.
Publication. Burroughs Adding Machine Company. 247,563; Oct. 2; Serial No. 266,645; published July 17, 1928.
Publication. Electrical League of Cleveland, Inc. 247,736; Oct. 2; Serial No. 265,150; published July 10, 1928.
Publication. Experimenter Publishing Company. 247,693; Oct. 2; Serial No. 267,552; published July 17, 1928.
Publication. Experimenter Publishing Company. 247,694; Oct. 2; Serial No. 267,550; published July 17, 1928.
Publication. Experimenter Publishing Company. 247,695; Oct. 2; Serial No. 267,548; published July 17, 1928.
Publication. David M. Lea & Company. 247,675; Oct. 2; Serial No. 267,133; published July 17, 1928.
Publication. Periodical. Exclusive Distributors' Association. 247,673; Oct. 2; Serial No. 267,189; published July 17, 1928.
Reproductions of photographs and prints. Jahn & Ollier Engraving Co. 247,630; Oct. 2; Serial No. 262,461; published June 12, 1928.

CLASS 39.

Bandeaux, girdles, and belts. H. & W. Company. 247,613; Oct. 2; Serial No. 264,097; published July 3, 1928.
Dresses, Ladies'. Bijou Dress Co. 247,804; Oct. 2.
Garters, arm bands, and suspenders. Gem-Dandy Garter Co. 247,541; Oct. 2; Serial No. 264,515; published July 3, 1928.
Garters, Ladies'. J. C. Penney Company. 247,557; Oct. 2; Serial No. 264,911; published July 3, 1928.
Gloves, Leather. W. S. Lahey. 247,539; Oct. 2; Serial No. 264,587; published July 3, 1928.
Hats, Men's. L. Shafarman Inc. 247,550; Oct. 2; Serial No. 264,704; published June 26, 1928.
Headwear. Fits-U Cap Co. 247,607; Oct. 2; Serial No. 264,029; published July 3, 1928.
Shoes, Leather. Holland Shoe Company. 247,723; Oct. 2; Serial No. 265,480; published July 3, 1928.
Uniforms, shoes, football pants, etc., Baseball. A. J. Reach Company. 247,546; Oct. 2; Serial No. 264,656; published July 3, 1928.

CLASS 40.

Shields, Dress. I. B. Kleinert Rubber Company. 247,555; Oct. 2; Serial No. 264,825; published July 17, 1928.
Shoehorns, Steel. Laing, Harrar & Chamberlin, Inc. 247,609; Oct. 2; Serial No. 264,171; published July 17, 1928.

CLASS 42.

Carpets and rugs, Axminster. Stephen Sanford & Sons Inc. 247,685; Oct. 2; Serial No. 267,872; published July 24, 1928.
Chiffon. De L'Opera Fabrics Corporation. 247,702; Oct. 2; Serial No. 266,217; published July 24, 1928.
Cotton piece goods. Merrimack Manufacturing Company. 247,654; Oct. 2; Serial No. 256,787; published July 24, 1928.
Drapes, pillow covers, table covers, etc. V. McWilliams. 247,611; Oct. 2; Serial No. 264,317; published July 24, 1928.
Fabrics, Pile. Sidney Blumenthal & Co. Inc. 247,783; Oct. 2; Serial No. 268,141; published July 24, 1928.
Fabrics, Woven, knitted, netted, textile, and pile. Cheney Brothers. 247,782; Oct. 2; Serial No. 268,078; published July 24, 1928.
Ribbons, materials, knitted goods, etc. N. V. Nederlandsche Kunstzijdefabriek. 247,740; Oct. 2; Serial No. 254,503; published July 24, 1928.
Silk chiffon. De L'Opera Fabrics Corporation. 247,728; Oct. 2; Serial No. 265,368; published July 24, 1928.
Silk goods in the piece. Kortlee Frock, Inc. 247,704–5; Oct. 2; Serial Nos. 266,820–1; published July 3, 1928.
Silk piece goods. H. R. Mallinson & Co. Inc. 247,788; Oct. 2; Serial No. 268,288; published July 24, 1928.
Worsted and woolen textile fabrics. Holden-Leonard Company. 247,784; Oct. 2; Serial No. 268,222; published July 24, 1928.
Worsted and woolen textile fabrics. Holden-Leonard Company. 247,785–6; Oct. 2; Serial Nos. 268,224 5; published July 24, 1928.

CLASS 43.

Threads. J. C. Penney Company. 247,679–80; Oct. 2; Serial Nos. 268,056–7; published July 24, 1928.
Yarns, Cotton and rayon. Long Island Yarn Corporation. 247,787; Oct. 2; Serial No. 268,287; published July 24, 1928.

CLASS 45.

Beverage and syrups, extracts, and concentrates for preparing the same. California Crushed Fruit Corporation. 247,811; Oct. 2.
Beverage, Coffee-flavored. Manthey-Zorn Laboratories Company. 247,800; Oct. 2.
Beverages. N. Deakides. 247,688; Oct. 2; Serial No. 267,702; published July 24, 1928.
Beverages and syrups for making the same. Cranadine Company. 247,759; Oct. 2; Serial No. 266,915; published July 24, 1928.
Beverages and syrups for making the same. Cranadine Company. 247,781; Oct. 2; Serial No. 266,916; published July 24, 1928.
Grape juice. Widmer's Grape Products Industry. 247,712; Oct. 2; Serial No. 266,164; published July 24, 1928.
Grape juice. Widmer's Grape Products Industry. 247,713; Oct. 2; Serial No. 266,162; published July 24, 1928.
Grape juice. Widmer's Grape Products Industry. 247,714; Oct. 2; Serial No. 266,161; published July 24, 1928.
Syrup, essences, flavorings, etc. W. J. Bush and Company. 247,653; Oct. 2; Serial No. 256,797; published July 24, 1928.

CLASS 46.

Butter substitute. C. Cretors. 247,799; Oct. 2.
Candies, bonbons, pastry, cakes, etc. The Mirror. 247,620; Oct. 2; Serial No. 263,169; published July 17, 1928.
Candies, bonbons, pastry, cakes, etc. The Mirror. 247,621; Oct. 2; Serial No. 263,167; published July 17, 1928.
Candy. Elgin Chocolate Products Co. Inc. 247,683; Oct. 2; Serial No. 267,888; published July 24, 1928.
Candy. Ferrara Panned Candy Co. Inc. 247,704; Oct. 2; Serial No. 266,365; published July 17, 1928.
Candy. J. Miller. 247,752; Oct. 2; Serial No. 250,186; published July 24, 1928.
Candy bar. Roach, Tisdale & Co. 247,743; Oct. 2; Serial No. 253,684; published July 3, 1928.
Canned and preserved figs. Texas City Canneries. 247,653; Oct. 2; Serial No. 256,197; published July 24, 1928.
Canned fish. Italian Food Products Company. 247,682; Oct. 2; Serial No. 267,962; published July 24, 1928.
Canned fish. M. Kumamoto. 247,754; Oct. 2; Serial No. 233,382; published July 24, 1928.
Canned fish. Pacific Trading Co. 247,681; Oct. 2; Serial No. 267,988; published July 24, 1928.
Canned fish, smoked fish, and preserved fish. Van Camp Sea Food Company. 247,741; Oct. 2; Serial No. 254,312; published July 24, 1928.
Canned fruits. Hawaiian Pineapple Company. 247,715; Oct. 2; Serial No. 266,133; published July 17, 1928.
Canned fruits and vegetables. Filice & Perrelli Canning Company. 247,766; Oct. 2; Serial No. 266,803; published July 24, 1928.
Canned fruits and canned vegetables. New York Canners, Inc. 247,748; Oct. 2; Serial No. 251,071; published July 24, 1928.
Canned fruits, canned vegetables, etc. New York Canners, Inc. 247,747; Oct. 2; Serial No. 251,237; published July 17, 1928.
Canned fruits, vegetables, tea, coffee, etc. Standard Imports Limited. 247,716; Oct. 2; Serial No. 266,109; published July 17, 1928.
Canned salmon. Pacific American Fisheries. 247,689–90; Oct. 2; Serial Nos. 267,664–5; published July 24, 1928.
Chili sauce, pickle relish, pickles, etc. L. C. Forman & Sons, Inc. 247,584; Oct. 2; Serial No. 265,897; published July 17, 1928.
Chocolate-covered marshmallow bars. Metro Chacolate Co. Inc. 247,805; Oct. 2.
Chocolates and candies. Wallace & Co. 247,664; Oct. 2; Serial No. 267,284; published July 24, 1928.
Cocoa, Powdered. Internationale Cacaofabrieken. 247,595; Oct. 2; Serial No. 265,726; published July 17, 1928.
Coffee. C. Kalbitzer Packing Co. 247,628; Oct. 2; Serial No. 262,566; published July 17, 1928.
Crackers, hygienic crackers, breakfast food, etc. J. E. Grant. 247,703; Oct. 2; Serial No. 266,370; published July 17, 1928.
Fish, Tuna. Naosaburo Tatsukawa. 247,575; Oct. 2; Serial No. 266,499; published July 24, 1928.
Flour, Wheat. Shellabarger Mills & Elevator Company. 247,643; Oct. 2; Serial No. 258,600; published June 5, 1928.
Fruits, Fresh deciduous. Chinchiolo Bros. & Co. 247,657; Oct. 2; Serial No. 255,963; published July 24, 1928.
Fruits, Fresh deciduous and citrus. Lucas Ranching Company. 247,721; Oct. 2; Serial No. 265,551; published July 24, 1928.
Horse-radish. J. H. Turner. 247,572; Oct. 2; Serial No. 266,565; published July 17, 1928.
Mayonnaise dressing, relish spread, etc. R. B. Smith. 247,717; Oct. 2; Serial No. 266,101; published July 17, 1928.
Meat loaf. Arnold Bros. 247,801; Oct. 2.
Melons, vegetables, etc., Fresh honeydew. P. W. Williams. 247,651; Oct. 2; Serial No. 256,985; published July 24, 1928.
Milk, Evaporated. Old Dominion Tobacco Company. 247,769; Oct. 2; Serial No. 266,741; published July 17, 1928.

Noodles, Egg. Gold Rolled Food Products Co. 247,698; Oct. 2; Serial No. 267,413; published July 17, 1928.
Oil, Cottonseed salad. California Bleaching Water Co. 247,580; Oct. 2; Serial No. 266,015; published July 17, 1928.
Pickles, Cucumber. Gladbrook Packing Co. 247,807; Oct. 2.
Pop corn. Lummis & Company. 247,763; Oct. 2; Serial No. 266,822; published July 24, 1928.
Potatoes, Fresh. Brown Company. 247,750; Oct. 2; Serial No. 250,222; published July 24, 1928.
Potatoes, Irish. Ekelman-Whittier Co. 247,771; Oct. 2; Serial No. 260 631; published July 24, 1928.
Relish, fruit conserves, etc., Southern. Tea Time Food Products Company. 247,612; Oct. 2; Serial No. 264,335; published July 17, 1928.
Spices, peanut butter, pepper sauce, etc. Frank Tea & Spice Co. 247,739; Oct. 2; Serial No. 254,907; published July 17, 1928.
Tea. A. Schilling & Co. 247,598; Oct. 2; Serial No. 265,605; published July 17, 1928.
Tea balls. Seeman Brothers, Inc. 247,705; Oct. 2; Serial No. 266,336; published July 24, 1928.
Tomato paste. Italian Food Products Co. Inc. 247,749; Oct. 2; Serial No. 250,544; published July 17, 1928.
Vegetables, fruits, etc., Fresh. Burnand & Company. 247 768; Oct. 2; Serial No. 266,789; published July 24, 1928.
Vegetables, grapes, peaches, and cantaloupes, Fresh. A. E. Barker & Co. of California. 247,652; Oct. 2; Serial No. 256,897; published July 24, 1928.

CLASS 49.

Cordials, whiskey, brandy, gin, and liquors. C. Schnitter. 247 646; Oct. 2; Serial No. 257,591; published July 24, 1928.

ALPHABETICAL LIST OF LABELS.

A-Red-Hot-Tip. For Fresh Grapes. Podesta Import Co. 34 664; Oct. 2.
Betsy's Best For Kitchen Products, Such as Marmalades, Jams, Jellies, and Pickles. B. Thurber. 34,670; Oct. 2.
Craft-Plaster. For Prepared Plaster Materials in Color to be Applied on Walls and Ceilings as a Textured Finish Coat. P. J. O'Connor. 34,660; Oct. 2.
Date Nut Loaf. For Health Dessert. H. H. Bundschuh. 34,649; Oct. 2.
Defiance Spark Plugs. For Spark Plugs. Defiance Spark Plugs, Inc. 34,650; Oct. 2.
4 Fruit Marmalade. For Marmalade. B. Lewis. 34,657; Oct. 2.
Garrett's Vineyard Bell. For Fresh Grapes. Garrett & Company. 34,653; Oct. 2.
Genuine Wisdom Detergent. For a Chemical Detergent. Wisdom Supply Company. 34,683; Oct. 2.
Glan-A-Tone. For a Gland Tonic. A. W. Kafoure. 34,655; Oct. 2.
Glencliff Creamery Butter. For Butter. W. Doane. 34,652; Oct. 2.
Gloria Florentine Linens. For Linens. Fred A. Balish & Bro. 34,648; Oct. 2.
La Bianca Neve Washing Fluid. For Washing Fluid. S. Oliveri. 34,661; Oct. 2.
La Napoletana. For Macaroni. P. Pastene & Co. 34,663; Oct. 2.
M L's Mayfair Dandruff Cure and Hair Restorer. For Dandruff Cure and Hair Restorer. Mayfair Company. 34,658; Oct. 2.
Magic City Creamery Butter. For Butter. Mrs. E. I. Wilson. 34,682; Oct. 2.
Maitland Aviation Coats. For Coats. Puritan Clothing Company. 34,665; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of American Pioneer and Log Cabin). For Coffee. John H. Wilkins Company. 34 674; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Arabs Sitting Beside a Camel and Drinking Coffee). For Coffee. John H. Wilkins Company. 34,673; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Coffee Beans and Leaves). For Coffee. John H. Wilkins Company. 34,676; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Coffee Plantation). For Coffee. John H. Wilkins Company. 34,675; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Coffee Plantation with Palm Trees in Foreground and Ship in Background). For Coffee. John H. Wilkins Company. 34,678; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Eagle). For Coffee. John H. Wilkins Company. 34,679; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Palm Trees, Steamship and Coolies Carrying Bags of Coffee). For Coffee. John H. Wilkins Company. 34,672; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Persons Seated at Tables in Hotel Dining Room). For Coffee. John H. Wilkins Company. 34,681; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Portrait of Arab). For Coffee. John H. Wilkins Company. 34,677; Oct. 2.
Our Guarantee is Back of this Coffee (With Illustration of Woman Holding Cup of Coffee and a Saucer). For Coffee. John H. Wilkins Company. 34,680; Oct. 2.
Pepso-Ginger. For Medicine for Indigestion, Sour or Acid Stomach, Gas, Etc. W. C. McKee. 34,659; Oct. 2.
Playing Card, Candy Box Special. For Candy Boxes. Oregon Paper Box Factory. 34,662; Oct. 2.
Quality Footwear. For Boxes. Hongue-Sprague Corporation. 34,654; Oct. 2.
Staxrite Lubricant. For Lubricating Greases. Quaker Oil Products Corporation. 34,666; Oct. 2.
Sun Ripe. For Fresh Grapes. Alta Loma Vineyards Co. Inc. 34,647; Oct. 2.
Super Service. For Full Molded Tube. Super Service Corporation. 34,667; Oct. 2.
Super Service. For Automobile Dust Cloth. Super Service Corporation. 34,668; Oct. 2.
Terry's Capsules. For Purely-Vegetable Tonic Laxative for the Liver, Kidneys, and Bowels. T. J. Terry. 34,669; Oct. 2.
Tour-Ne-Sol. For a Face and Cleansing Cream. A. J. Krank. 34,656; Oct. 2.
Vitality. For Malt Syrup. West Penn Feed & Milling Company. 34,671; Oct. 2.
'We' Brand Creamery Butter. For Butter. W. Doane. 34,651; Oct. 2.

ALPHABETICAL LIST OF PRINTS.

Defiance Spark Plugs. For Spark Plugs. Defiance Spark Plugs, Inc. 11,245; Oct. 2.
Defiance Spark Plugs Air-Cooled Oil Plugs. For Spark Plugs. Defiance Spark Plugs, Inc. 11,246; Oct. 2.
Frederics Vita-Tonic Compound Brown and Dark Shades. For a Compound for Waving Hair. E. Frederics, Inc. 11,248; Oct. 2.
Frederics Vita-Tonic Compound Gray and White Shades. For a Compound for Waving Hair. E. Frederics, Inc. 11,247; Oct. 2.
Jos. Wolfe, Inc. For Clothes for Men and Young Men. Jos. Wolfe, Inc. 11,256; Oct. 2.
Just the Taste You've Been Longing for. For Coffee. Alice Foote MacDougall & Sons, Inc. 11,251; Oct. 2.
Merrie-Time. For Candy. Edw. M. Becker Company. 11,244; Oct. 2.
New York City of Marvels. For Books Containing Views of New York City. A. Levy. 11,249–50; Oct. 2.
Pulling for John Roten. For Hats. J. Roten. 11,252; Oct. 2.
Wise Bow. For Neckties. B. Weisberg. 11,255; Oct. 2.
Your Tongue Tells The Truth! Three Kings are Different. For Cigarettes. Union Tobacco Company. 11,254; Oct. 2.
Your Tongue Tells the Truth! Three Kings Satisfy your Smoke Thirst. For Cigarettes. Union Tobacco Company. 11,253; Oct. 2.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Dearborn, Clinton H., assignor.)
A C Spark Plug Company. (See Eshbaugh, Jesse E., assignor.)
A C Spark Plug Company. (See Kennington, William O., assignor.)
A C Spark Plug Company. (See Nutt, Frank N., assignor.)
Abrahams, Paul M., et al. (See Veitch, Thomas, assignor.)
Achenbach, Charles, Manitowoc, Wis. Head check. 1,686,060; Oct. 2.
Acme Aluminum Foundry Company. (See Olsen, Norman D., assignor.)
Adams, Charles, jr., Cliffside Park, N. J., assignor of one-half to S. F. Weston, New York, N. Y. Sprinkler system. 1,686,221; Oct. 2.
Adams, Joseph D., Beaumont, Tex. Screen-setting apparatus. 1,685,971; Oct. 2.
Adler, Francis J., West New Brighton, N. Y. Knockdown container. 1,686,222; Oct. 2.
Agfa Ansco Corporation. (See Bornmann, Carl, assignor.)
Ainsworth Manufacturing Co. (See Potter, Albert T., assignor.)
Airships Incorporated. (See Boyle, James F., assignor.)
Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)
Aktieselskapet Norsk Staal (Elektrisk-Gas-Reduktion). (See Edwin, Emil, assignor.)
Alexander, Roland B., and W. H. Rowan, Detroit, Mich. Testing apparatus. 1,685,973; Oct. 2.
Allinger, Albert A., Richmond Hill, N. Y. Figure wheel toy. 1,686,061; Oct. 2.
Alphin, Gilbert E., Mount Olive, N. C. Window fixture. 1,685,831; Oct. 2.
Amacker, Charles F., Bogalusa, La. Therapeutic composition. 1,686,062; Oct. 2.
American Abrasive Metals Company. (See Fink, C. G., and Kopp, assignors.)
American Brake Materials Corporation. (See Thompson, James S., assignor.)
American Brake Shoe & Foundry Company, The. (See Stewart, Robert S., assignor.)
American Cable Company. (See Meals, Casper D., assignor.)
American Chain Company. (See McCook, Arthur J., assignor.)
American Laundry Machinery Company, The. (See Dreher, A. J., and Couch, assignors.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Parlor Frame Company. (See Graham, Charles T., assignor.)
American Schaeffer and Budenberg Corporation. (See Ileman, Emil A., assignor.)
American Sheet and Tin Plate Company. (See Evans, A. D., and Lamoree, assignors.)
American Slicing Machine Company. (See Campbell, William J., assignor.)
American Stove Company. (See Possons, Minard A., assignor.)
American Telephone and Telegraph Company. (See Ballard, William R., assignor.)
American Telephone and Telegraph Company. (See Bascom, H. M., Arnold, and Pentland, assignors.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
American Telephone and Telegraph Company. (See Huntington, Herbert, assignor.)
Ames Brush Company, The. (See De Vilbiss, Thomas A., assignor.)
Amme, Ernst, Brunswick, K. Dienst, Frankfort-on-the-Main, Germany, and D. J. Uhle, Allentown, Pa. Rotary furnace. 1,685,972; Oct. 2.
Andersen, Niels K., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Accelerating relay. 1,685,931; Oct. 2.
Anderson, William, Spokane, Wash. Hose handle. 1,686,115; Oct. 2.
Andersson, Walter B., Chicago, Ill. Hydraulic gate and check valve. 1,685,932; Oct. 2.
Anderson, Walter B., Chicago, Ill. Hydraulic gate and check valve. 1,685,933; Oct. 2.
Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Operating connection. 1,686,360; Oct. 2.
Andrew, William K., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Clamping device. 1,685,899; Oct. 2.
Armstrong, Charles D., Woonsocket, R. I. Priming device for internal-combustion engines. 1,686,361; Oct. 2.
Armstrong, Frank C., Larchmont, N. Y. Carton for playing cards. 1,685,798; Oct. 2.
Armstrong, John N., New Castle, Pa. Dirigible headlight. 1,686,401; Oct. 2.
Armstrong, Percy A. E., Loudonville, assignor to Ludlum Steel Company, Watervliet, N. Y. Stable-surface iron-chromium-silicon alloy. 1,686,223; Oct. 2.
Arnold, Oscar M. (See Bascom, H. M., Arnold, and Pentland.)
Arnt, Herald P., Jackson, Mich. Making reenforced tubular spokes. 1,685,832; Oct. 2.
Arras, George, Chicago, Ill. Electric fixture. 1,686,362; Oct. 2.
Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
Ash, Elmer E., Los Angeles, Calif. Furniture construction. 1,686,116; Oct. 2.
Asher, Harry, London, England. Detachable heel for boots and shoes. 1,685,871; Oct. 2.
Associated Merchandising Corporation. (See Lavault, André assignor.)
Associated Oil Company, et al. (See Ihrig, Harry K., assignor.)
Atmospheric Nitrogen Corporation. (See Slade, Roland E., assignor.)
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Manufacturing insulator pins. 1,685,833; Oct. 2.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Manufacturing insulator pins. 1,685,834; Oct. 2.
Automatic Electric Inc. (See Willis, Bernard D., assignor.)
Avril, William E., Santa Monica, Calif. Motor-vehicle body. Des. 76,447; Oct. 2.
Baker, Frederick W., Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y. Two-rim vehicle wheel. 1,685,974; Oct. 2.
Baker, Harold O., Pontiac, Mich. Lamp and loud speaker. 1,686,402; Oct. 2.
Baker, Joseph W., assignor to Stokes and Smith Company, Philadelphia, Pa. Sheet-feeding apparatus. 1,685,799; Oct. 2.
Baker, Webster E. B., York Haven, Pa. Treatment of sulphite wood-pulp liquor. 1,685,800; Oct. 2.
Bakken, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,685,934; Oct. 2.
Baldwin, Leon F. N., Edgewood, assignor of one-half to B. S. Clark, Providence, R. I. Crosswalk marker. 1,686,363; Oct. 2.
Ball, Guy M., Dayton, Ohio. Parachute flare. 1,686,117; Oct. 2.
Ballard, Arthur H., Incorporated. (See Goodridge, George E., assignor.)
Ballard, William R., New Rochelle, N. Y., assignor to American Telephone and Telegraph Company. Current-controlling device. 1,685,801; Oct. 2.
Ballou, Howard M., (See Ballou, Walter B. and H. M., and Wall.)
Ballou, Walter B. and H. M., and L. S. Wall, assignors to R. Blackinton & Co., North Attleboro, Mass. Binding corner. 1,686,483; Oct. 2.
Barber-Colman Company. (See Colman, Howard D., assignor.)
Barber Electric Manufacturing Company. (See Lundin, Ragnar O. W., assignor.)
Barish, Louis D., New York, N. Y. Stocking. Des. 76,448; Oct. 2.
Barrie, David W., Auburn, Australia. Ventilation elements for wall construction and the like. 1,686,118; Oct. 2.
Bascom, Henry M., Brooklyn, O. M. Arnold, Leonia, and R. L. Pentland, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Program-selecting arrangement. 1, 685,835; Oct. 2.
Battegay, Martin, Mulhouse, France, assignor to Calco Chemical Co., Boundbrook, N. J. Dyeing and printing and product obtained therein. 1,686,224; Oct. 2.
Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 76,449; Oct. 2.
Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 76,450; Oct. 2.
Bausch & Lomb Optical Company. (See Bausch, W., and Powell, assignors.)

Bausch & Lomb Optical Company. (See Gallasch, George B., assignor.)
Bausch, William, and J. R. Powell, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-blank-holding means. 1,686,364; Oct. 2.
Baxter, Harold G., Baldwin, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Motor snap switch. 1,685,935; Oct. 2.
Beatty, William G., Fergus, Ontario, Canada. Wringer. 1,686,119; Oct. 2.
Beatty, William G., Fergus, Ontario, Canada. Wringer. 1,686,120; Oct. 2.
Becker, Arman E., Elizabeth, N. J. Testing apparatus and using same. 1,686,365; Oct. 2.
Beebe, Edward M., Cushing, Okla. Slush-pump manifold. 1,686,310; Oct. 2.
Beggs, Samuel, Chicago, Ill. Combination toilet-paper holder and mirror. Des. 76,461; Oct. 2.
Bell, John E., Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Economizer boiler. 1,685,898; Oct. 2.
Benbow, Burnie L., Cleveland, Ohio. Packing and making same. 1,686,063; Oct. 2.
Bender, George H., Detroit, Mich. Alloy. 1,685,975; Oct. 2.
Bendix Brake Company. (See Andres, William J., assignor.)
Bendix Brake Company. (See Sanford, Roy S., assignor.)
Bendix Brake Company. (See Thomas, George J., assignor.)
Benn, Kit Co., The Mohawk Rubber Company, Akron, Ohio. Sectional air bag. 1,685,900; Oct. 2.
Bergeim, Frank H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cyanonitrate explosive and producing the same. 1,685,771; Oct. 2.
Berner, Fred, East Rutherford, N. J. Binder. 1,685,901; Oct. 2.
Bethlehem Steel Company. (See Madden, James P., assignor.)
Bird, Frank A., Salt Lake City, Utah. Concentrating oxidized ores and minerals. 1,686,064; Oct. 2.
Bixby, Walter. (See Hathaway, E. F., and Bixby.)
Blackington, R. & Co. (See Ballou, Walter B. and H. M., and Wall, assignors.)
Blaine, Joseph R., Oak Park, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press blanket clamp. 1,686,065; Oct. 2.
Blakely, Clarence E., Ute, assignor of one-half to W. A. Blakely, Grand Center, Iowa. Curtain rod. 1,686,141; Oct. 2.
Blakely, Wilbur A. (See Blakely, Clarence E., assignor.)
Blanchard, Frederick C., Dorchester, Mass. Lubricating system. 1,685,976; Oct. 2.
Blaw-Knox Company. (See Boyrie, Harry E., assignor.)
Blaw-Knox Company. (See Bradshaw, Grant D., assignor.)
Blaw-Knox Company. (See Robin, P. T., and Venable, assignors.)
Bleck, Herman, Hammond, Ind. Animal trap. 1,686,432; Oct. 2.
Bleecker, Warren F., Boulder, Colo. Impervious chemical material and its production. 1,686,197; Oct. 2.
Bletcher, Ralph E., and E. H. Bucknell, Los Angeles, Calif. Escutcheon. Des. 76,452; Oct. 2.
Bliss, E. W., Company. (See Towne, Walter M., assignor.)
Blomstrom, Lowell C., assignor to Federal Mogul Corporation, Detroit, Mich. Apparatus for holding half bearings in position for machining. 1,686,198; Oct. 2.
Bloomer, Charles G., Cranston, and H. F. Sands, Providence, R. I. Window ventilator. 1,685,902; Oct. 2.
Blumenfeld, Edward G., Brooklyn, N. Y., assignor to La Salle Brass & Bronze Works, Inc. Console table. Des. 76,453; Oct. 2.
Bolens, Harry W., Port Washington, Wis. Cultivator. 1,685,903; Oct. 2.
Bollerman, Albert, New York, N. Y. Wire cutter and stripper. 1,685,977; Oct. 2.
Bonsieur, Le, Elyria, Ohio. Composite molded article. 1,686,142; Oct. 2.
Booge, James E., and J. P. Koller, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Reduction of sulphate minerals and briquettes therefor. 1,685,772; Oct. 2.
Bornmann, Carl, assignor, by mesne assignments to Agfa Ansco Corporation, Binghamton, N. Y. Film package. 1,685,802; Oct. 2.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Plate. Des. 76,454; Oct. 2.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Plate. Des. 76,455; Oct. 2.
Bousfield, Alfred, assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Track scale. 1,685,978; Oct. 2.
Bousman, Claude D., Kansas City, Kans. Lime spreader. 1,686,143; Oct. 2.
Bonstead, Mary E., Minneapolis, Minn. Division board for truck bodies. 1,686,433; Oct. 2.
Bowen, Richard E., Los Angeles, Calif. Adjustable vehicle seat. 1,685,770; Oct. 2.
Bower, Robert C., St. Louis, Mo. Logging and indicating device for radio receiving sets. 1,685,803; Oct. 2.
Bowman, Hyman D., Pittsburgh, Pa. Fluid-mixing device. 1,686,199; Oct. 2.
Boyle, James F., assignor to Airships Incorporated, Hammondsport, N. Y. Inflatable boat. 1,686,366; Oct. 2.
Boynton, Alexander, San Antonio, Tex. Polished-rod rotator. 1,686,261; Oct. 2.
Boynton, Alexander, San Antonio, Tex. Stage-lift flowing device. 1,686,262; Oct. 2.
Boynton, Alexander, San Antonio, Tex. Rotary reamer. 1,686,403; Oct. 2.
Boyrie, Harry E., San Francisco, Calif., assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa. Separator. 1,686,066; Oct. 2.
Brace, Porter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Loud speaker. 1,685,979; Oct. 2.
Bradshaw, Grant D., Pittsburgh, assignor to Blaw-Nox Company, Blawnox, Pa. Fluid separator. 1,686,067; Oct. 2.
Brand, George P., Westport, Conn. Transmission and tracker mechanism unit. 1,686,225; Oct. 2.
Brandes Laboratories, Inc. (See Worthington, Everett, assignor.)
Braun, Philip N., assignor to The Prosperity Company Inc., Syracuse, N. Y. Shirt-pressing machine (tail holder). 1,686,311; Oct. 2.
Brennan, Bernard G., Chicago, Ill. Machine for transferring and chopping animal carcasses. 1,686,121; Oct. 2.
Brennan, Bernard G., Chicago, Ill. Meat-cutting table. 1,686,122; Oct. 2.
Brenner, Robert S., Union City, N. J., and J. Scott, Stapleton, N. Y., assignors to Standard Oil Development Company. Sign. Des. 76,456; Oct. 2.
Bridgeport Brass Company. (See Oakley, Erastus G., assignor.)
Briggs, Francis W., Medford, Mass. Rim-removing device. 1,686,068; Oct. 2.
Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Measuring instrument. 1,686,263; Oct. 2.
Brohman, Samuel F., Cochin, Saskatchewan, Canada. Railrod tie. 1,685,980; Oct. 2.
Brower, Elbert O., Huntington, N. Y. Surface projectile. 1,686,124; Oct. 2.
Brown, Clement, Birmingham, England. Carburetor for internal-combustion engines. 1,686,123; Oct. 2.
Brown Company. (See Parker, Howard, assignor.)
Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Field discharge switch. 1,685,936; Oct. 2.
Brown-Lipe Gear Company. (See Sweet, Henry W., assignor.)
Brown, Loyal C. (See Yost, C. L., and Brown.)
Brown, William. (See Loman, Arthur J., assignor.)
Brownback, Henry L., Norristown, Pa., assignor to Brownback Motor Laboratories, Inc., New York, N. Y. Aerially-propelled speed boat. 1,686,264; Oct. 2.
Brownback Motor Laboratories, Inc. (See Brownback, Henry L., assignor.)
Bruce, Daniel C., Nashville, Tenn. Composition of matter. 1,685,981; Oct. 2.
Buc, Hyym E., Roselle, N. J., assignor to Standard Oil Development Company. Drier and the combination thereof with drying oils. 1,686,484; Oct. 2.
Buc, Hyym E., Roselle, N. J., assignor to Standard Oil Development Company. Drier and the combination thereof with drying oils. 1,686,485; Oct. 2.
Buc, Hyym E., Roselle, N. J., assignor to Standard Oil Development Company. Drier and the combination thereof with drying oils. 1,686,486; Oct. 2.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Buckle, Horace L. T., Iver Heath, England, assignor to Victor Talking Machine Company. Automatic brake for talking machines. 1,685,872; Oct. 2.
Buckles, Herbert E., Elkhart, Ind. Propeller. 1,686,069; Oct. 2.
Bucknell, Ernest H. (See Bletcher, R. E., and Bucknell.)
Bucyrus-Erie Company. (See Fykse, Mitchell L., assignor.)
Buerger, Charles B., assignor to Gulf Oil Burner Company, Pittsburgh, Pa. Liquid-fuel burner. 1,685,804; Oct. 2.
Buerger, Charles B., asignor to Gulf Oil Burner Company, Pittsburgh, Pa. Liquid-fuel burner. 1,685,836; Oct. 2.
Burke, James L., Weehawken, N. J. Reel construction and length-measuring means. 1,685,904; Oct. 2.
Burmester, Louis, Omaha, Nebr. Air-heating furnace. 1,686,070; Oct. 2.
Burr, Harold L., Rockford, Ill. Shirt. Des. 76,457; Oct. 2.
Busby, Alvin C., Ellensburg, Wash. Tire holder. 1,686,367; Oct. 2.
Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Intermittent inductive train control. 1,686,434; Oct. 2.
Buzzaird, Raleigh B., Maplewood, N. J. Lock. 1,685,982; Oct. 2.
Caffrey, James J. (See Jenney, Melvin R., assignor.)
Cain, John J., Bayonne, N. J. Metal shipping container. 1,685,905; Oct. 2.
Calco Chemical Co. (See Battegay, Martin, assignor.)
Caley, John T. (See Hill, John W., assignor.)
Callahan, Robert L., Louisville, Ky. Sack filler. 1,686,404; Oct. 2.
Campbell, Robert H., Upper Edmonton, England. Manufacture of containers or capsules. 1,686,405; Oct. 2.
Campbell, Sumner E., et al. (See Ihrig, Harry K., assignor.)

Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,685,906; Oct. 2.
Cannard, William H., and A. W. Withro, Green Bay, Wis. Toilet kit or container. 1,686,200; Oct. 2.
Cannon, Nahum A., Fairview, Ala. Amusement house. Des. 76,458; Oct. 2.
Caplan, Isador A., Pittsburgh, Pa. Lock. 1,686,406; Oct. 2.
Carbide and Carbon Chemicals Corporation. (See Ray, Arthur B., assignor.)
Carborundum Company, The. (See Geiger, Charles F., assignor.)
Carter, William J., jr., Akron, Ohio. Stretching frame for sheet material. 1,686,368; Oct. 2.
Case, Lynn R. (See Waldron, W. H., and Case.)
Cass, Israel G., et al. (See Veitch, Thomas, assignor.)
Cast Steel Devices Co., The. (See Rauch, John D., assignor.)
Cavaleri, Vincent, Brooklyn, N. Y. Aeroplane. 1,686,071; Oct. 2.
Celanese Corporation of America. (See Ellis, George H., assignor.)
Certo Corporation. (See Wallace, James F., assignor.)
Chance, Thomas M., Philadelphia, Pa. Method and apparatus for detecting accumulations of materials in coal washers and ore concentrators. 1,686,435; Oct. 2.
Chandler, Willard P., jr., Pittsburgh, Pa. Draft-control system. 1,686 265; Oct. 2.
Cherry, Carl W., San Francisco, Calif. Home savings bank. 1,686,201; Oct. 2.
Cherry, Carl W., San Francisco, Calif. Magnetic lock-operating device. 1,686,202; Oct. 2.
Chicago Pneumatic Tool Company. (See Hoffman, Leon F., assignor.)
Chicle Development Company. (See Yates, Sheldon S., assignor.)
Christensen, Jens C., Buffalo, N. Y. Refrigerator. 1,686 072; Oct. 2.
Chubb, Annie L., Oakland, Calif. Clothes-hanger holder. 1,686,125; Oct. 2.
Church, Harold D., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Clutch plate. 1,685 983; Oct. 2.
Cierpikowski, Antoine, Paris, France. air-curling device. 1,685,773; Oct. 2.
Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
Cirou, Paul A., Tlemcen, Algeria. Device for elevating water. 1,685,907; Oct. 2.
Clark, Benjamin S. (See Baldwin, Leon F. N., assignor.)
Clark, John W., Providence, R. I. Apparatus for forming cord sheet material. 1,686,436; Oct. 2.
Clarke, Edward L., Scranton, Pa. Window ventilator. 1,686,407; Oct. 2.
Clarkson, Thomas, and H. R. Heal, Coffeyville, Kans. Removing amorphous wax and asphaltic material from oil. 1,686,437; Oct. 2.
Cockburn, Francis B., assignor to The Lodge & Shipley Machine Tool Company Cincinnati, Ohio. Facing attachment for lathes. 1,686,438; Oct. 2.
Coe, Harrison S., Lawrence, Kans. Thickening apparatus. 1,686,203; Oct. 2.
Cogswell, Leander A., assignor to Lacene manufacturing Company, Manchester, N. H. Grading machine 1,686,487; Oct. 2.
Cohen, Hyman E., assignor to United States Hoffman Machinery Corporation New York, N. Y. Pressing machine. 1,686,266; Oct. 2.
Colbert, Alvin H., Chicago, Ill. Air-washer structure. 1,686,144; Oct. 2.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Heddle frame. 1,686,073; Oct. 2.
Conkling, De Witt C., Jackson Heights, Long Island, N. Y. Clutch. 1,686,226; Oct. 2.
Consolidated Ashcroft Hancock Company. (See Williston, Belvin T., assignor.)
Container Corporation of America. (See Hans, Thomas, assignor.)
Cook, Francis A., San Diego, Calif. Oil-change-recording device. 1,686,369; Oct. 2.
Cook, Lester G., Lincoln, Nebr. Porch and lawn swing. 1,686,145; Oct. 2.
Cooke, John M., Revere, assignor to N. W. Mathey, Boston, Mass. Blower attachment for machines. 1,686,439; Oct. 2.
Cornelius, Hampus G. E. (See Flodin, H. G., and Tustafeson assignors.)
Coryell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,685,908; Oct. 2.
Couch, Forrest J. (See Dreher, A. J., and Couch.)
Cournand, Julea and R., Paris, France. Syringe. 1,685,984; Oct. 2.
Cournand, René. (See Cournand, Jules and R.)
Covert, Byron V., Lockport, N. Y. Film magazine. 1,686,204; Oct. 2.
Cregier, Nathaniel B., Chicago, Ill. Rectifying device. 1,685,909; Oct. 2.
Cripps, Albert A., Detroit, Mich., assignor, by mesne assignments, to Dodge Brothers Inc. Rear-curtain-light support. 1,686,126; Oct. 2.
Crosby Steam Gage & Valve Company. (See Raymond, Fairfield E., assignor.)
Cummings, Robert T., assignor of one-half to E. H. Price, Spokane, Wash. Heater for windshields. 1,686,146; Oct. 2.
Curnick, Harvey and E. D. Specht, Minneapolis, Minn. Motor-vehicle signal means. 1,686,267; Oct. 2.
Currie, Carlton E., Los Angeles, Calif. Adjustable positive-grip steel beam hook. 1,686,074; Oct. 2.
Dahlberg, Henry W., Denver, Colo. Recovering sucrose from mixtures containing reducing sugars. 1,686,440; Oct. 2.
Dana, Fred A. (See Heslewood, William R., assignor.)
Dann, Walter M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radiator. 1,685,937; Oct. 2.
Dann, Walter M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Indicating device. 1,685,938; Oct. 2.
Danger, Alfred B. and R. M., Sacremento, Calif. Framing tool. 1,686,441; Oct. 2.
Danger, Ruth M. (See Danger, Alfred B and R. M.)
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Apparatus for handling loose material. 1,686,127; Oct. 2.
Davis, Charles E., Davenport, Fla., assignor to Goodman Manufacturing company, Chicago, Ill. Scraper-loading device. 1,686,147; Oct. 2.
Davis, Charles E., Davenport, Fla., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper, 1,686,148; Oct. 2.
Davis, Erby P., J. C. Ross, and M. E. Smith, New Castle Hundred, Del. Pasteurization of milk. 1,686,227; Oct. 2.
Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Pressing apparatus. 1,686,312; Oct. 2.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Broadway, Westminster, England. Recoil and run-out apparatus for ordnance. 1,685,910; Oct. 2.
Dayton, Arthur W., Newark, Ohio. Grate. 1,685,939; Oct. 2.
Dean Hill Pump Company. (See Schleyer, Victor, assignor.)
Dean, William E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,685,837; Oct. 2.
Dearborn, Clinton H., Hampton, Va., assignor to A C Spark Plug Company, Flint, Mich. Crank-case-ventilator shut-off valve. 1,685,985; Oct. 2.
Deardorff, John E., Vista, Calif. Adobe wall construction. 1,686,228; Oct. 2.
Deister, Emil, Fort Wayne, Ind. Vibrating screen. 1,685,940; Oct. 2.
Deister, Emil, Fort Wayne, Ind. Vibrating motion-producing mechanism. 1,685,941; Oct. 2.
Deister, Emil, Fort Wayne, Ind. Screening mechanism. 1,685,942; Oct. 2.
Deister, Emil, Fort Wayne, Ind. Concentrating table. 1,685,986; Oct. 2.
De Land, Amedee, River Rouge, Mich. Shutter-operating attachment for cameras. 1,685,774; Oct. 2.
Delany, Edward L., assignor to Delany Realty Corporation, Brooklyn, N. Y. Float valve. 1,685,987; Oct. 2.
Delany Realty Corporation. (See Delany, Edward L., assignor.)
De Long Hook and Eye Company, The. (See Gutekunst, Leonard, assignor.)
Derk, Joseph, assignor to The Derk Manufacturing Company, Doylestown, Pa. Table scarf or similar article. Des. 76,459; Oct. 2.
Derk Manufacturing Company, The. (See Derk, Joseph, assignor.)
Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Söderberg, Carl W., assignor.)
Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Wather, Martin, assignor.)
De Vilbiss Company, The. (See De Vilbiss, Thomas A., assignor.)
De Vilbiss, Thomas A., assignor to The Ames Brush Company, Toledo, Ohio. Brush back. Des. 76,460; Oct. 2.
De Vilbiss, Thomas A., assignor to The Ames Brush Company, Toledo, Ohio. Brush back. Des. 76,461; Oct. 2.
De Vilbiss, Thomas A., assignor to The Ames Brush Company, Toledo, Ohio. Brush back. Des. 76,462; Oct. 2.
De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. Des. 76,463; Oct. 2.
De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. Des. 76,464; Oct. 2.
De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. Des. 76,465; Oct. 2.
De Vlieg, Gerard A., Rockford, Ill. Table-control mechanism. 1,686,268; Oct. 2.
Dickinson, Joseph H. (See Dickinson, Merian H. and J. H.)
Dickinson, Merian H., Seattle, Wash., and J. H. Dickinson, Winter Park, Fla., assignors to Lidgerwood Manufacturing Company, New York, N. Y. Overhead cableway skidding and loading equipment. 1,685,911; Oct. 2.
Diderrich, Gustave, Elkins Park, Pa. Automobile brake-testing device. 1,686,229; Oct. 2.
Dienst, Karl. (See Amme, E., Dienst, and Uhle.)
Dietrich, Gilbert J., Beaumont, Tex. Alarm attachment for clocks. 1,686,408; Oct. 2.
Dittmar, Udo, Freiburg im Breisgau, Baden, Germany. Drawing mechanism for spinning fibrous materials. 1,685,838; Oct. 2.

Dobson, John V., Forset Hills, and M. F. Jones, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. 1,685,943; Oct. 2.

Dodge Brothers Inc. (See Cripps, Albert A., assignor.)

Dodge, Harold F., New York, N. Y., and H. A. Frederick, Mountain Lakes, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Stethoscopic apparatus. 1,686,504; Oct. 2.

Doehler Die-Casting Co. (See Vericel Antonie, assignor.)

Doetsch & Bauer Company. (See Bauer, Carl, assignor.)

Drake, Chester W., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronous motor starter. 1,685 944; Oct. 2.

Drake, Norman C., Brooklyn, assignor to Redfield-Kendrick-Odell Co. Inc., New York, N. Y. Delivery mechanism. 1,685,945; Oct. 2.

Dravo Contracting Company. (See Kersting, Bernard H., assignor.)

Dreaper, William P., Hempstead Heath, London, England. Apparatus for filtering solutions used in the manufacture of artificial silk and the like. 1,685,775; Oct. 2.

Dreher, Albert J., and F. J. Couch, Cincinnati, assignors to The American Laundry Machinery Company, Norwood Station, Cincinnati, Ohio. Centrifugal starching apparatus. 1,686 313; Oct. 2.

Du Bois, Alexander D., Minneapolis, Minn. Torque-equalizing system. 1,685 839; Oct. 2.

Dulco Manufacturing Company. (See Dultmeier, Frank J., assignor.)

Dultmeier, Frank J., Des Moines, Iowa, assignor to Dulco Manufacturing Company. Tub stand. 1,685 988; Oct. 2.

Duncan, William M., Alton, Ill. Adjustable hammer for disintegrators and the like. 1,686,128; Oct. 2.

Dunhill, Alfred, London, England. Apparatus for obtaining kaleidoscopic lighting effects. 1,685,912; Oct. 2.

Dunlap, Fred L., Jefferson City, Mo. Selectively-operated punching machine. 1,686,269; Oct. 2.

Du Pont, E. I., de Nemours & Company. (See Bergelm, Frank H., assignor.)

Du Pont, E. I., de Nemours & Company. (See Booge, J. E., and Koller, assignors.)

Du Priest, Guy, assignor to J. Nolen, Austin, Tex. Advertising sign. Des. 76 498; Oct. 2.

Duquette, Isidore L., W. J. Plasse, and C. A. Merrill, Webster, Mass. Lamp-focus-securing device. 1,685,805; Oct. 2.

Duntex Corporation. (See Wilson, John A., assignor.)

Dwyer, Carl A., and W. A. Wheeler, Oakland, Calif. Building block. 1,686 270; Oct. 2.

Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear-grinding hob. 1,685,989; Oct. 2.

Eberhart, Emil, Edwardsville, Ill. Removable sanitary cover for freezer cans. 1,686,314; Oct. 2.

Eclipse Textile Devices, Incorporated. (See Johnston, James S., assignor.)

Edmonds, William A. (See Museheck, George E., assignor.)

Edwards, Richard M., Canton, Ohio, assignor of one-half to F. Thomas, Indianapolis, Ind. Amusement device for inducing sensations of aviation. 1,686,315; Oct. 2.

Edwin, Emil, Trondhjem, assignor to the firm: Aktieselskapet Norsk Staal Elektrisk-Gas-Reduktion, Oslo, Norway. Making synthetic pig iron. 1,686,075; Oct. 2.

Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 76,466; Oct. 2.

Electrolux Servel Corporation. (See von Platen, B. C., and Munters, assignors.)

Ellis, Ada M., Oakland, Calif. Reading stand. 1,686,443; Oct. 2.

Ellis, Alfred G., Hale, England, assignor to Westinghouse Electric & Manufacturing Company. Electrical transformer. 1,685,946; Oct. 2.

Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of fabrics. 1,686,149; Oct. 2.

Else, Harry D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic control for ironing machines. 1,685,947; Oct. 2.

Emanuel, Walter H. A., Fairchield, Wis. Fly swatter. 1,685,990; Oct. 2.

Engle, Edgar W., Lake Forest, assignor to Fansteel Products Company, Inc., North Chicago, Il. Rectifier electrode. 1,686,316; Oct. 2.

Entenman, Albert, Brooklyn, N. Y. Doorframe. 1,685,806; Oct. 2.

Enterprise Manufacturing Company, The. (See Pflueger, Charles T., assignor.)

Erhard, Gustave F., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 76,467; Oct. 2.

Erhard, Gustave F., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 76,468; Oct. 2.

Erhard, Gustave F., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 76,469; Oct. 2.

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Erhard, Gustave F., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 76,471; Oct. 2.

Erhard, Gustave F., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 76,472; Oct. 2.

Erhard, Gustave F., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabic. Des. 76,473; Oct. 2.

Erickson, Carl A., Detroit, Mich. Legging. 1,685,991; Oct. 2.

Erickson, Charles A., Chicago, Ill. Spring suspension. 1,686,230; Oct. 2.

Erickson, Robert W. (See Smith, W. W., and Erickson.)

Eshbaugh, Jesse E., assignor to A C Spark Plug Company, Flint, Mich. Ammeter frame. 1,685,992; Oct. 2.

Espenschied, Lloyd, Kew Gardens, N. Y., assignor to American Telephone and Telegraph Company. Recording and reproducing of sound waves. 1,685,913; Oct. 2.

Evans, Archibald D., and J. K. Lamoree, New Castle, assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Feed rollers. 1,685,873; Oct. 2.

Evans, Wilson, assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill. Method and apparatus for mixing solids with liquids. 1,686,076; Oct. 2.

Evans, Wilson, assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill. Dry feeding and measuring machine. 1,686,077; Oct. 2.

Evans, Wilson, assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill. Mixing device. 1,686,078; Oct. 2.

Ever Hot Heater Company, The. (See Ledbetter, Elmer E., assignor.)

Ever Hot Heater Company, The. (See Shuell, F. W., and Ledbetter, assignors.)

Evinrude Motor Company. (See Hillborn, Herbert J., assignor.)

Eyman, Charles A., New York, N. Y. Vanity case. 1,686,370; Oct. 2.

Fairbanks, E. and T., and Company. (See Bousfield, Alfred, assignor.)

Fansteel Products Company. (See Engle, Edgar W., assignor.)

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train stop. 1,685,840; Oct. 2.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Crankcase vent. 1,685,841; Oct. 2.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,685,842; Oct. 2.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Duplex pressure retainer. 1,685,843; Oct. 2.

Fauser, Giacomo, Novara, Italy. Apparatus for the production of synthetic ammonia. 1,686,371; Oct. 2.

Favarger, François, Neuchatel, Switzerland, assignor, by mesne assignments, to National Teleregister Corporation, New York, N. Y. Electric signaling apparatus. 1,685,776; Oct. 2.

Fechheimer, Carl J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Stabilization of transmission lines. 1,685 993; Oct. 2.

Federal Manufacturing Company. (See Olinger, Thomas, assignor.)

Federal Mogul Corporation. (See Blomstrom, Lowell C., assignor.)

Feeny, Edmund J., Muncie, Ind. Mule back duster. 1,686,317; Oct. 2.

Fehn, Henry A., assignor to The Sweets Company of America, Inc., New York, N. Y. Sheet-metal display stand. 1,685,807; Oct. 2.

Feist, Herman C., Rowena, Tex. Mail-box latch and signal. 1,685,874; Oct. 2.

Fenneman, Mary K. (See Fenneman, William H., assignor.)

Fenneman, William H., Taft, Calif., assignor to M. K. Fenneman. Wrist-pin-bearing holder. 1,686,079; Oct. 2.

Field, Allan B., Marple, England, assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,685,948; Oct. 2.

Fink, Colin G., and A. H. Kopp, New York, N. Y., assignors to American Abrasive Metals Company. Abrasive surface and making same. 1,686,150; Oct. 2.

Finley, George C. (See Watkins, W. M., and Finley.)

Firestone Tire and Rubber Company, The. (See Putt, Edward D., assignor.)

Firestone Tire and Rubber Company, The. (See Stevens, William C., assignor.)

Fisk Rubber Company, The. (See Lehman, Paul W., assignor.)

Fishwick, Albert B., Cincinnati, Ohio. Radio appliance. 1,685,875; Oct. 2.

Fitzpatrick, Michael. (See Hargrove, O. P., and Fitzpatrick.)

Flintkote Company, The. (See Harris, William A., assignor.)

Flodin, Henning G., Roslags-Nasby, and E. G. T. Gustafsson, Stockholm, Sweden. Producing metals or metal alloys low in carbon directly out of ore or the like. 1,686,206; Oct. 2.

Flodin, Henning G., Roslags-Nasby, and E. G. T. Gustafsson, assignors to H. G. E. Cornelius, Stockholm, Sweden. Direct reduction process for producing carbon binding metal or metal alloys. 1,686,207; Oct. 2.

Foley, Charles B., Fort Wayne, Ind., assignor to Charles B. Foley, Inc., New York, N. Y. Electric furnace. 1,685,914; Oct. 2.

Foley, Charles B., Inc. (See Foley, Charles B., assignor.)

Ford, Michael H., Jersey City, N. J. Cycloplane. 1,686,080; Oct. 2.

Fort Pitt Mine Equipment Company. (See Johnson, G. M., and Sundvik, assignors.)

Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-speed circuit interrupter. 1,685,949; Oct. 2.

Foster, Arthur L., Middletown, N. J., assignor to Manifold Supplies Company, Brooklyn, N. Y. Device for adjustably controlling the location of roller shafts in paper-feeding machines. 1,686,488; Oct. 2.

Foster, Harry D., Washington, D. C. Building block or tile construction. 1,686,373; Oct. 2.

Foster Wheeler Corporation. (See Bell, John E., assignor.)

Foster Wheeler Corporation. (See Nelis, Joseph J., assignor.)

Fostoria Glass Company. (See Bottome, Edgar M., assignor.)

Fowler, Byron L., and J. J. Smith, Morton, Tex. Cultivator attachment. 1,685,844; Oct. 2.

Foxboro Company, The. (See Bristol, Edgar H., assignor.)

Francis, Ethelbert, Moundsville, W. Va. Automobile tire carrier. 1,686,231; Oct. 2.

Franks, Charles K., etal. (See Franks, David, assignor.)

Franks, David, assignor of one-third to C. K. Franks and one-third to S. Franks, jr., Millersburg, Ohio. Machine for separating seeds. 1,686,374; Oct. 2.

Franks, Samuel, jr., et al. (See Franks, David, assignor.)

Frayer, Harry C., assignor to Sterilizable Tooth Brush Container Company, St. Paul, Minn. Toothbrush container. 1,685,876; Oct. 2.

Frederick, Halsey A. (See Dodge, H. F., and Frederick.)

Freeman, Hubert M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio vacuum tube. 1,685,994; Oct. 2.

Freestate, Charles P., Riverside, assignor to Western Shade Cloth Company, Chicago, Ill. Shade-roller mounting. 1,686,208; Oct. 2.

French, William C., Burkburnett, Tex. Cotton-picker's cuff. 1,685,808; Oct. 2.

Frey, Clarence E., Lincoln, Nebr. Medical applicator. 1,686,151; Oct. 2.

Friedman, Jacob, Brooklyn, N. Y. Straw hat. 1,686,081; Oct. 2.

Fritz, Edward B., Chicago, Ill. Paper and pulp screening machine. 1,685,809; Oct. 2.

Froesch, Charles, assignor to International Motor Company, New York, N. Y. 1,686,082; Oct. 2.

Full Expansion Motors Corporation. (See Hetlesater, Olaf, assignor.)

Fullips, George A., Milwaukee, Wis. Bottle-handling machine. 1,686,129; Oct. 2.

Fykse, Mitchell L., Milwaukee, assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis. Steering mechanism. 1,686,372; Oct. 2.

Gallasch, George B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Gauge. 1,686,318; Oct. 2.

Gamewell Company, The. (See Jackson, George A., assignor.)

Gano, Harlan S., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Temperature regulator. 1,685,995; Oct. 2.

Garraway, Lee O., Memphis, Tenn. Triple preheater for boilers. 1,686,444; Oct. 2.

Garraway, Lee O., Memphis, Tenn. Preheater attachment for boilers. 1,686,445; Oct. 2.

Garrott, John C., Houston, Tex. Valve lifter. 1,686,152; Oct. 2.

Gee, Frederick S. (See Gee, James E. and F. S.)

Gee, James E. and F. S., London, England. Heat treatment of permanent magnets. 1,685,877; Oct. 2.

Geiger, Charles F., Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Tunnel kiln, furnace, and the like. 1,686,083; Oct. 2.

General Motors Corporation. (See Church, Harold D., assignor.)

General Motors Corporation. (See Jack, Robert K., assignor.)

General Motors Corporation. (See Kennington, William O., assignor.)

General Motors Corporation. (See Main, Frank L., assignor.)

General Motors Corporation. (See Morgan, Harry, assignor.)

General Motors Corporation. (See Seaholm, Ernest W., assignor.)

General Motors Corporation. (See Tenney, Perry L., assignor.)

General Motors Research Corporation. (See Short, Charles R., assignor.)

General Railway Signal Company. (See Bushnell, Charles S., assignor.)

George, Jerome R., and E. J. Quinn, assignors to Morgan Construction Company, Worcester, Mass. Journal lubricator. 1,686,271; Oct. 2.

Gero, William B., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Fabrication of metallic thorium. 1,685,915; Oct. 2.

Gesellschaft fuer Elektrische Apparate mit beschraenkter Haftung. (See Illauer, Johann W. G., assignor.)

Gesellschaft für Drahtlose Telegraphie m. b. H. (See Leib, August, assignor.)

Geuer, Karl, Bad Oeynhausen, Germany. Body tipping wagon. 1,686,409; Oct. 2.

Giebe, Erich, and A. Scheibe, Berlin, Germany. Method of and apparatus for rendering visible oscillations of piezo-electrical crystals. 1,685,810; Oct. 2.

Gillies, Harold D., London, England. Motor and other vehicles. 1,686,209; Oct. 2.

Gillmor, Horatio G., Washington, D. C. Rail anchor. 1,686,319; Oct. 2.

Gilman, John A., Seattle, Wash. Planetary transmission mechanism. 1,686,446; Oct. 2.

Gilson Manufacturing Company. (See Travers, Charles J., assignor.)

Ginabat, André Paris, France. Surface condenser. Re 17,094; Oct. 2.

Ginter, George E., et al. (See Uhl, George A., assignor.)

Gleason Works. (See Wildhaber, Ernest, assignor.)

Globar Corporation. (See Shaw, Harold N., assignor.)

Gloria Manufacturing Corp. (See Vidor, William H., assignor.)

Goble, Walter A., Grand Rapids, Mich. Piano-key mounting. 1,686,210; Oct. 2.

Goodman Manufacturing Company. (See Davis, Charles E., assignor.)

Goodman Manufacturing Company. (See McCullough, William T., assignor.)

Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)

Goodridge, George E., Reading, assignor, by mesne assignments, to Arthur H. Ballard, Incorporated, Boston, Mass. Rotary pump. 1,686,272; Oct. 2.

Goodspeed, Franklin S., New York, N. Y., assignor to Westinghouse Lamp Company. Lamp wrapper. 1,686,273; Oct. 2.

Gorton, Augustine C., Whittenburg, Tex. Cake. Des. 76,474; Oct. 2.

Gouldbourn, Joseph, and R. B. Woodcock, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Top-lift-trimming machine. 1,685,811; Oct. 2.

Graham, Charles T., Grand Rapids, Mich., assignor to American Parlor Frame Company, Sheboygan, Wis. Settee frame or similar article. Des. 76,475; Oct. 2.

Grasselli Dyestuff Corporation. (See Neelmeier, W., and Nocken, assignors.)

Greathouse, Josephine A., Los Angeles, Calif. Lamp. Des. 76,476; Oct. 2.

Greenbaum, Leo, Far Rockaway, E. Van Hoofstadt, Oceanside, and C. Gustavson, Brooklyn, N. Y., assignors to Lion Match Company, Inc. Feeding and cutting paper match splints. 1,686,232. Oct. 2.

Greenstreet, Oliver P., Owensville, Mo. Expansible and retractable roofing sheet. 1,686,274; Oct. 2.

Greer, Jesse W., Cambridge, Mass. Confectionery-packing machine. 1,686,375; Oct. 2.

Gregg, Charles F., Indianapolis, Ind. Cleaning machine. 1,685,812; Oct. 2.

Gregory, Eugene, Ann Arbor, assignor of one-tenth to E. H. Saier, Lansing, Mich. Ballot marker and setter. 1,685,996; Oct. 2.

Greve, Herman L., Brooklyn, N. Y. Mailing wrapper for photographs. 1,685,813; Oct. 2.

Griesbaum, Erwin, St. Louis, Mo. Rail tie. 1,686,320; Oct. 2.

Griffiths, Harold, Shrewsbury, Mass. Jacquard harness. 1,685,878; Oct. 2.

Groh, Willis E., Corunna, Ind. Sand pump. 1,686,321; Oct. 2.

Grossman, Wallace G., North White Plains, N. Y. Folding chair. Des. 76,477; Oct. 2.

Guild, Waldo J. (See Heald, R. A., and Guild.)

Gulbransen, Christian, assignor to Gulbransen Company, Chicago, Ill. Player piano. 1,686,153; Oct. 2.

Gulbransen Company. (See Gulbransen, Christian, assignor.)

Gulf Oil Burner Company. (See Buerger, Charles B., assignor.)

Gustafsson Emil G. T. (See Flodin, H. G., and Gustafsson assignor.)

Gustavson, Charles. (See Greenbaum, L., Van Hoofstadt, and Gustavson.)

Gutekunst, Leonard, assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Hook and eye. 1,685,777; Oct. 2.

Hagstrom, Carl J., Glen Cove, N. Y. Double-acting door latch. 1,685,998; Oct. 2.

Halfverson, Gustaf A., Verona, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic brake. 1,685,997; Oct. 2.

Hall, Charles S., Oakland, Calif. Aircraft. 1,686,084; Oct. 2.

Hall, Charles S., Los Angeles, Calif. Aircraft. 1,686,130; Oct. 2.

Halliday, Marion B., New York, N. Y. Signaling device. 1,686,233; Oct. 2.

Hamilton, Henry H., Columbus, Ohio. Method and apparatus for feeding coal. 1,686,131; Oct. 2.

Hammond, Bertwood L., Worchester, Mass. Transportation of paper. 1,685 845; Oct. 2.

Hannes, Ralph. (See Hannes, Trygve S. and R.)

Hannes, Trygve S. and R., San Diego, Calif. Wrench. 1,686,376; Oct. 2.

Hans, Edmund E., and R. Henry, Detroit, Mich., assignors to W. M. Scott, Lakewood, and R. E. Trealse, Cleveland Heights, Ohio. Gauge. 1,685,916; Oct. 2.

Hans, Thomas, assignor to Container Corporation of America, Chicago, Ill. Finishing and coloring paper and paper made thereby. 1,685,917; Oct. 2.

Hansen, Louis, Calgary, Alberta Canada. Chain-fastening device. 1,686,447; Oct. 2.

Hanson, Bengt M. W., deceased, Hartford, by E. A. Hanson, West Hartford, and C. E. Whitney, Hartford, Conn., executors, now by resignation E. A. Hanson, sole executor. V rest for knife edges. 1,686,377; Oct. 2.

Hanson, Elnar A., et al., executors. (See Hanson, Bengt M. W.)

Harbison, Clarence B., assignor to The Ohio Steel Foundry Company, Lima, Ohio. Side-frame structure. 1,686,085; Oct. 2.

Harden, Ralph L., assignor to The Mason Box Company, Attleboro Falls, Mass. Mailing box. 1,686,449; Oct. 2.

Hardy, Peter. (See Thomson, J. M., and Hardy.)

Hargrove, Orlando P., and M. Fitzpatrick, Wayland, N. Y. Loom reed. 1,686,448; Oct. 2.

Harne, Oliver G., Baltimore, Md. Laboratory table. 1,686,234; Oct. 2.

Harris, Frank L., Stockton, Calif. Motor-vehicle signal. 1,686,086; Oct. 2.

Harris, William A., assignor to The Flintkote Company, Boston, Mass. Roofing shingle. 1,685,999; Oct. 2.

Harrop, James. (See Hughes, W. S., and Harrop.)

Hart, Ira B., assignor to W. N. Matthews Corporation, St. Louis, Mo. Slack puller and jack. 1,686,501; Oct. 2.

Hartstoff-Metall Aktiengesellschaft (Hametag). (See Kramer, Erwin, assignor.)

Hartstoff-Metall Aktiengesellschaft (Hametag). (See Podszus, Emil, assignor.)

Hathaway, Edgar F., Wellesley, and W. Bixby, assignors to Shawmut Engineering Company, Boston, Mass. Yarn-spool bearing. 1,686,489; Oct. 2.

Hazen, Lysle L., Joplin, Mo. Pump head. 1,686,154; Oct. 2.

Heal, Hammond R. (See Clarson, T., and Heal.)

Heald Machine Company, The. (See Heald, R. A., and Guild, assignors.)

Heald, Richard A., and W. J. Guild, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,686,275; Oct. 2.

Healy, Eugene C. (See Whalen, Nicholas D., assignor.)

Heasley, Charles W., Pittsburgh, Pa. Cuff link. 1,686 235; Oct. 2.

Heath, George W., Newark, N. J. Variable electric condenser. 1,686,378; Oct. 2.

Hecht, Frank A., jr., assignor to Kaestner & Hecht Company, Chicago, Ill. Control board for elevators. 1,686,000; Oct. 2.

Heefner, La Port W., Greensburg, assignor to Pennsylvania Rubber Company, Jeannette, Pa. Vehicle tire. Des. 76,478; Oct. 2.

Heeren, Martin, Newton, Iowa. Track chock for car wheels. 1,686,379; Oct. 2.

Heeter, Thomas E., St. Louis, Mo. Cutting and wrapping index tabs. 1,686,132; Oct. 2.

Heidman, Fred J., assignor to T. C. Whitehead, Detroit, Mich. Resilient support. 1,685,778; Oct. 2.

Heinkel, C. F. (See Muth, John H., assignor.)

Helmberger, Joseph, Philadelphia, Pa. Electrically-operated shut-off for gas burners and alarms. 1,686,380; Oct. 2.

Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Coin-controlled weighing scale. 1,685,779; Oct. 2.

Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,685,780; Oct. 2.

Henderson, Charles L., assignor to Paper Patents Company, Neenah, Wis. Paper-making machinery. 1,686,322; Oct. 2.

Henricks, Henry E., Beaver, assignor to The United States Sanitary Manufacturing Company, Pittsburgh, Pa. Pattern for bathtubs. 1,686,001; Oct. 2.

Henry, Robert. (See Hans, E. E., and Henry.)

Henry, William, Rockford, Ill. Luggage carrier. 1,686,450; Oct. 2.

Hershberg, Samuel M., Brooklyn, N. Y. Roll-film control. 1,686,211; Oct. 2.

Hershkowitz, Nathan. (See Hershkowitz, Paul and N.)

Hershkowitz, Paul and N., New York, N. Y. Trimming braid. Des. 76,479; Oct. 2.

Herzon, Jacob S., Detroit, Mich. Eyeglass holder. 1,686,002; Oct. 2.

Heslewood, William R., assignor of one-half to F. A. Dana, Los Angeles, Calif. Motor meter. 1,685,846; Oct. 2.

Hetlesater, Olaf, assignor to Full Expansion Motors Corporation, Seattle, Wash. Internal-combustion engine. 1,686,236; Oct. 2.

Hibbard, Lloyd J., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter system. 1,685,950; Oct. 2.

Hickok Manufacturing Company. (See Eichner, Robert F., assignor.)

Hickok Manufacturing Company. (See Valsey, Harold C., assignor.)

Hill, Charles W., Birmingham, Ala. Refining iron and steel products. 1,686,087; Oct. 2.

Hill, Henry, Brockton, Mass. Support for polishing shoes. 1,686,133; Oct. 2.

Hill, John W., assignor of forty-nine one-hundredths to J. T. Caley, Salt Lake City, Utah. Voltage-testing apparatus. 1,686,451; Oct. 2.

Hillborn, Herbert J., assignor to Evinrude Motor Company, Milwaukee, Wis. Outboard motor. 1,685,814; Oct. 2.

Hillix, Foster F., assignor, by mesne assignments, to White Sewing Machine Corporation, Cleveland, Ohio. Electric motor. 1,686,324; Oct. 2.

Hinderliter, Frank J., Tulsa, Okla. Slip-ring socket. 1,686,134; Oct. 2.

Hochriem, Gustav F., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill. Weighing-scale casing. Des. 76,480; Oct. 2.

Hoefler, Carl P., Syracuse, N. Y. Headlight. 1,686,452; Oct. 2.

Hoeflich, Victor T., New York, N. Y. Wreath. Des. 76,481; Oct. 2.

Hoexter, Seymour L., Cedarhurst, N. Y. Game. 1,686,237; Oct. 2.

Hoffman, Leon F., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Control apparatus for compressors. 1,685,781; Oct. 2.

Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Power operating mechanism for typewriters. 1,685,782; Oct. 2.

Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Case-shift mechanism. 1,686,325; Oct. 2.

Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Making tire-bead-reenforcing elements. 1,686,155; Oct. 2.

Horstkott, Frederick W., Portland, Oreg. Unloading machine. 1,686,088; Oct. 2.

Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)

Hottinger, Arnold H., Chicago, Ill. Spraying device. 1,686,003; Oct. 2.

Hottinger, Arnold H., Chicago, Ill. Spraying device. 1,686,004; Oct. 2.

Houck, Harry W., East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Wave signaling system. 1,686,005; Oct. 2.

Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Obtaining lighter products from hydrocarbons. 1,686,490; Oct. 2.

Hudson Coal Company, The. (See Repko, John S., assignor.)

Hughes, Wayne S., and J. Harrop, Bayton, Tex., assignors, to Standard Oil Development Company. Preparation of fuel oil. 1,686,491; Oct. 2.

Hunecker, Karl, Chicago, Ill. Electrical connection. 1,686,276; Oct. 2.

Huntington, Herbert, Hartford, Conn., assignor to American Telephone and Telegraph Company. Test clip. 1,685,847; Oct. 2.

Hurdle, Joseph H., Mebane, N. C. Mixer. 1,686,135; Oct. 2.

I. G. Farbenindustrie Aktiengesellschaft. (See Müller, C., Schlecht, and Schubardt, assignors.)

Ihriz, Harry K., Martinez, assignor of one-half to Sumner E. Campbell, Associated, and one-half to Associated Oil Company, San Francisco, Calif. Obtaining nitrogenous bases from hydrocarbon materials. 1,686,136; Oct. 2.

Ileman, Emil A., Queens, N. Y., assignor to American Schaeffer and Budenberg Corporation. Recording instrument. 1,686,326; Oct. 2.

Illaner, Johann W. G., Berlin-Charlottenburg, assignor to Gesellschaft fuer Elektrische Apparate mit beschraenkter Haftung, Berlin-Marienfelde, Germany. System for the telecontrol of objects. 1,686,327; Oct. 2.

Industrial Chemical Company. (See Okell, S. A. W., and Wickenden, assignors.)

International Motor Company. (See Froesch, Charles, assignor.)

Ivory, Fred A. (See Messler, R. E., and Ivory.)

Jablow, Charles, East Pitsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic brake. 1,686,006; Oct. 2.

Jack, Robert K., Lansing, assignor to General Motors Corporation, Detroit, Mich. Crank-case-ventilating system. 1,686,007; Oct. 2.

Jackson, Fred, Clay City, Ind. Grain shocker. 1,686,156; Oct. 2.

Jackson, George A., Waltham, assignor, by mesne assignments to The Gamewell Company, Newton, Mass. Signal system and device. 1,685,848; Oct. 2.

James, Samuel W., Chicago, Ill. Service tray. Des. 76,482; Oct. 2.

Janson, George W., Nutley, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Call-box trouble detector. 1,686,492; Oct. 2.

Janssen, Webster E., New York, N. Y. Combined piano case and writing desk. Des. 76,483; Oct. 2.

Jaquemot, Eugène. (See Pattay, M. A., and Jaquemot.)

Jarnowski, Pete, Chicago, Ill. Ventilated building. 1,686,453; Oct. 2.

Jenney, Melvin R., Melrose, assignor to J. J. Caffrey, trustee, Boston, Mass. Shock absorber. 1,686,381; Oct. 2.

Jennings, Irving C., South Norwalk, Conn. Universal coupling. 1,685,815; Oct. 2.

Jernberg, Carl R., assignor to Standard Forgings Company, Chicago, Ill. Forging apparatus. 1,685,849; Oct. 2.

Joest, Anna. (See Linck, J., and Joest.)

Johnson, Allan R. P., Toronto, Ontario, Canada. Stenciled indicating means. 1,685,952; Oct. 2.

Johnson, Allan R. P., Toronto, Ontario, Canada. Locking device for bulb supports of direction indicators. 1,686,008; Oct. 2.

Johnson, George M., and K. H. Sundvik, Jeannette, assignors to Fort Pitt Mine Equipment Company, Pittsburgh, Pa. Car-transfer apparatus. 1,686,382; Oct. 2.

Johnston, James S., Elmira, assignor, by mesne assignments, to Eclipse Textile Devices, Incorporated, Elmira Heights, N. Y. Coloring yarn on bobbins. Re-17,096; Oct. 2.

Jones, Maurice F. (See Dobson, J. V., and Jones.)

Judy, Wilbur H., assignor to Sumet Corporation, Buffalo, N. Y. Metallic composition and making the same. 1,686,277; Oct. 2.

Julius, Frederic S., Philadelphia, Pa. Bottle protector and closure. 1,686,238; Oct. 2.

Kadel, Byers W., Baltimore, Md. Car-door mechanism. 1,686,239; Oct. 2.

Kaelma Manufacturing Company. (See Snyder, George C., assignor.)

Kaestner & Hecht Company. (See Hecht, Frank A., jr., assignor.)

Kalmar, Bertalan, and M. Kollin, Long Island City, N. Y. Electric soldering iron. 1,686,328; Oct. 2.

Kaye, Stewart, Edinburgh, Scotland. Machine for erecting walls of brick and the like. 1,686,279; Oct. 2.

Karfiol, Edward, Brooklyn, N. Y. Doily. Des. 76,484; Oct. 2.

Karmazin, John, Detroit, Mich. Condenser. 1,685,918; Oct. 2.

Kasch, Henry J., Dayton, assignor to Kurz-Kasch Company, South Broadway, near Dayton, Ohio. Securing knobs and dials to instrument shafts. Re17,091; Oct. 2.

Kauch, Robert. (See McNeill, W. G., and Kauch.)

Kauch, Robert, and C. L. Paulus, Dayton, Ohio. Ring sight for machine guns. 1,686,157; Oct. 2.

Kauch, Robert, and C. L. Paulus, Dayton, Ohio. Electric-impulse generator. 1,686,158; Oct. 2.

Kaufman, Roger, Lansdowne, Pa. Clip for beading construction. 1,686,278; Oct. 2.

Kaufman, Adam W., Milwaukee, Wis. Timer. 1,686,159; Oct. 2.

Kearney & Trecker Corporation. (See Andrew, William K., assignor.)

Kearney & Trecker Corporation. (See Kearney, Edward J., assignor.)

Kearney, Edward J., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine-tool knee structure. 1,685,920; Oct. 2.

Keene, Alvin D., West Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,686,009; Oct. 2.

Keene, Alvin D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,686,010; Oct. 2.

Keller, Graydon A., assignor of one-third to W. R. Litzenberg, Los Angeles, Calif. Mixer for margarine and the like. 1,686,280; Oct. 2.

Kennedy, John E., and M. A., Los Angeles, Calif. Tire-protecting signal. 1,686,089; Oct. 2.

Kennedy, Michael A. (See Kennedy, John E. and M. A.)

Kenney, William J., Chicago, Ill., assignor to Zeolate Engineering Co. Water-softening apparatus. 1,685,816; Oct. 2.

Kenney, William J., Chicago, Ill., assignor to Zeolite Engineering Co. Water softener. 1,685,817; Oct. 2.

Kenney, William J., Chicago, Ill. Combined filter and upflow water softener. 1,685 818; Oct. 2.

Kennington, William O., London, England, assignor to A C Spark Plug Company, Flint, Mich. Electrical coupling. 1,686,011; Oct. 2.

Kennington, William O., London, England, assignor to General Motors Corporation, Detroit, Mich. Windshield heater. 1,686,012; Oct. 2.

Keogan, Richard C., South Bend, Ind. Traffic signal. 1,686,329; Oct. 2.

Kersting, Bernard H., Ben Avon, assignor to Dravo Contracting Company, Pittsburgh, Pa. Drive for paddle-wheel boats. 1,686,013; Oct. 2.

Keystone Stamping Corporation. (See Wohlhieter, Joseph W., assignor.)

Kibby, Albert S., Perry, assignor of one-half to National Sales Company, Des Moines, Iowa. Washing machine. 1,686,137; Oct. 2.

Killebrew, Ernest C., Evansville, Ind. Vacuum cleaner. 1,686,410; Oct. 2.

Kingsley, Lee, Syracuse, N. Y. Filing-tab holder. 1,686,212; Oct. 2.

Kingsley-Miller Company, The. (See Townsend, George H., assignor.)

Kinnsmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Multiple-lever twenty-four-speed mechanism. 1,686,240; Oct. 2.

Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Cam-controlled twenty-four-speed mechanism. 1,686,383; Oct. 2.

Klimowicz, Paul, Stevens Point, Wis. Character-mounting stick for changeable signs. 1,686,160; Oct. 2.

Klinch Latch Corporation. (See Strand, Joseph, assignor.)

Kohler, Arthur G., New Rochelle, N. Y. Dishwashing machine. 1,686,456; Oct. 2.

Kohler, Claude S. and M. N., New Orleans, La. Union overalls. 1,686,411; Oct. 2.

Kohler, Max N. (See Kohler, Claude S. and M. N.)

Koller, Joseph P. (See Booge, J. E., and Koller.)

Kollin, Mano. (See Kalmar, B., and Kollin.

Koop, Arthur H. (See Fink, C. G., and Kopp.)

Koudritsky, Dimitri, Charleroi, Belgium. Liquid-fuel burner. 1,686,213; Oct. 2.

Kramer, Erwin, Berlin, assignor to Härtstoff-Metall Aktiengesellschaft (Hametag), Berlin-Copenick, Germany. Bow trolley for electric vehicles. 1,685,919; Oct. 2.

Krentler Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)

Krentler, Walter A., assignor to Krentler Arnold Hinge Last Company, Detroit, Mich. Last. 1,685,783; Oct. 2.

Krisch, John W., Kansas City, Mo. Finger ring. Des. 76 485; Oct. 2.

Kurten, Mathies. (See Wheary, G. H., and Kurten.)

Kurz-Kasch Company. (See Kasch, Henry J., assignor.)

Küttel, Karl, Vienna, Austria, assignor of one-fourth to E. J. Watzl, Cleveland, and one-fourth to H. J. Trenkamp, Cleveland Heights, Ohio. Producing metal glutins and product thereof. 1,686,281; Oct. 2.

Kuyser, Jan A. (See Townend, R., and Kuyser.)

Kyle, Royal N., Gardnerville, Nev. Propeller. 1,686,214; Oct. 2.

Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Secondary rack. 1,686,215; Oct. 2.

Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Insulating rack. 1,686,216; Oct. 2.

L. G. S. Devices Corporation. (See Lieber, Albert, assignor.)

Lacene Manufacturing Company. (See Cogswell, Leander A., assignor.)

Lacerda, Harry A., Watervliet, N. Y. Driver chuck. 1,686,412; Oct. 2.

Ladd, Lester L., assignor to Photometric Producta Corporation, Chicago, Ill. Selective control device. 1,685,921; Oct. 2.

Lamb, Charles I., Nashville, Tenn., assignor to The Seng Company, Chicago, Ill. Davenport bed. 1,686,384; Oct. 2.

Lamoree, James K. (See Evans, A. D., and Lamoree.)

Laronde, Philip J., Manchester, N. H. Fuel mixing and supercharging device. 1,686,413; Oct. 2.

La Salle Brass & Bronze Works, Inc. (See Blumenfeld, Edward G., assignor.)

Lasher, Hiram S., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,686,014; Oct. 2.

Lavault, André, Paris, France, assignor to Associated Merchandising Corporation. Box for perfume, powder, or the like. Des. 76,486; Oct. 2.

Lear, George E., Danville, Ala. Brooder heater. 1,685,879; Oct. 2.

Ledbetter, Elmer E. (See Shuell, F. W., and Ledbetter.)

Ledbetter, Elmer E., assignor to The Ever Hot Heater Company, Detroit, Mich. Safety device for gas-radiator systems. 1,685,819; Oct. 2.

Ledbetter, James C., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,685,820; Oct. 2.

Lee, Dwight B., Detroit, Mich. Combined automobile body and hood. Des. 76,487; Oct. 2.

Lee, Morse C., Chicago, Ill. Tire-locking device. 1,685,924; Oct. 2.

Lee, Rufus E., assignor of one-half to The Panhandle Steel Products Company, Wichita Falls, Tex. Cotton cleaner. 1,686,414; Oct. 2.

Leeson, Stanley R., Lakewood, Ohio. Combined signal and parking light for motor cars. 1,686,330; Oct. 2.

Le Gloahec, Victor C. E., St. Cloud, France. Manufacture of carpets. 1,686,331; Oct. 2.

Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,686,282; Oct. 2.

Lehr, Edwin, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Primary relay for induction regulators. 1,686,015; Oct. 2.

Leib, August, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Direction finder. 1,685,821; Oct. 2.

Leidecker, Foster H., assignor to The Leidecker Tool Company, Marietta, Ohio. Dressing die. 1,686,454; Oct. 2.

Leidecker Tool Company, The. (See Leidecker, Foster H., assignor.)

Lemmon, Rees H. (See Yerkes, J. A., and Lemmon.)

Leon, Lewicki J., West Chicago, Ill. Parrot cage. 1,685,922; Oct. 2.

Leonard, Samuel E., jr., E. Cleveland, Ohio. Wireless signaling apparatus. 1,685,923; Oct. 2.

Levi, Karl, Minneapolis, Minn. Coffee urn. 1,686,283; Oct. 2.

Lewis, Warren K., Newton, Mass., assignor to Standard Oil Development Company. Refining oils, etc. 1,686,493; Oct. 2.

Lichte, Hugo, assignor to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Microphone. 1,686,385; Oct. 2.

Lidgerwood Manufacturing Company. (See Dickinson, Merian H. and J. H., assignors.)

Lieber, Albert, assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Overrunning spring clutch. 1,686,455; Oct. 2.

Liese, Paul, Berlin-Tempelhof, Germany. Wall. 1,686,161; Oct. 2.

Linck, Joseph, and A. Joest, Newark, N. J. Collapsible garment rack. 1,685,925; Oct. 2.

Lindburg, Joseph, Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,686,016; Oct. 2.

Lindersmith, Francis M., Spokane, Wash. Window. 1,686,162; Oct. 2.

Line Material Company. (See Kyle, William D., assignor.)

Lion Match Company. (See Greenbaum, L., Van Hoofstadt, and Gustavson, assignors.)

List, Raymond F., assignor to National Sewing Machine Company, Belvidere, Ill. Lighting attachment for sewing machines. 1,685,850; Oct. 2.

Litzenberg, William R. (See Keller, Graydon M., assignor.)

Ljungström, Fredrik, assignor to Aktiebolget Ljungströms Angturbin, Lidingo-Brevik, Sweden. Turbine aggregate. 1,686,218; Oct. 2.

Lodge & Shipley Machine Tool Company, The. (See Cockburn, Francis B., assignor.)

Loewe, Siegmund, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Vacuum-tube circuits. 1,686,018; Oct. 2.

Loftus, Fred H., Pittsburgh, Pa. Furnace-roof construction. 1,686,386; Oct. 2.

Loftus, Fred H., Pittsburgh, Pa. Roof and wall construction for open-hearth furnaces. 1,686,387; Oct. 2.

Loman, Arthur J., assignor of one-half to W. Brown, Uncasville, Conn. Controlling device for pulp-refining engines. 1,686,217; Oct. 2.

Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Firearm. 1,686,332; Oct. 2.

Loposer, Napoleon H., Gulfport, Miss. Liquid-dispensing device. 1,685,880; Oct. 2.

Lorenz, William A., assignor to The Otaka Fabric Company, West Hartford, Conn. Paper-crinkling machine. 1,686,388; Oct. 2.

Los Angeles Chemical Company. (See Wood, Charles D., assignor.)

Lovett, Michael V., Castanea, Pa. Rendering apparatus. 1,686,017; Oct. 2.

Lowell-Wintsch Automatic Train Control Corp., The. (See Wintsch, Max T., assignor.)

Lowinger, Eugene, New York, N. Y. Illuminated sign. 1,685,822; Oct. 2.

Lund, Isaac A., Chicago, Ill. Radiocabinet. Des. 76,488; Oct. 2.

Lund, Isaac A., Chicago, Ill. Radiocabinet. Des. 76,489; Oct. 2.

Lundell, George A. E., deceased, New York, N. Y.; J. D. Lundell, executrix. Electromagnetic relay. 1,685,953; Oct. 2.

Lundell, Jeannette D., executrix. (See Lundell, George A. E.)

Lundin, Ragnar O. W., assignor to Barber Electric Manufacturing Company, North Attleboro, Mass. Electric switch. 1,686,494; Oct. 2.

Ludlum Steel Company. (See Armstrong, Percy A. E., assignor.)

Lutz, Ernest T., New York, N. Y. Combined toothpick and dental floss holder. Des. 76,490; Oct. 2.

Lyes, James, New York, N. Y. Trap for drains and sewers. 1,686,415; Oct. 2.

Lyman, Albert T. (See Lyman, Howard F., assignor.)

Lyman, Howard F., Mitchell, assignor of one-half to A. T. Lyman, Mount Vernon, S. Dak. Attachment for corn binders. 1,686,284; Oct. 2.

Lynn, Robert C. (See McKenney, Fred Y., assignor.)

Lyon, Henry L., administrator. (See Lyon, Henry H.)

Lyon, Henry H., deceased, Buffalo, N. Y.; H. L. Lyon, administrator. Electrical measuring instrument. 1,686,019; Oct. 2.

MacClatchie, John W., Compton, Calif. Piston packing. 1,686,090; Oct. 2.

MacGahan, Paul, Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Instrument structure. 1,685,951; Oct. 2.

MacIndoe, John F., Philadelphia, Pa. Grease cup. 1,686,241; Oct. 2.

MacInerney, James L., Grand Rapids, Mich. Machine for placing springs in fabric pockets. 1,685,851; Oct. 2.

Mackert, Albert A., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Hose-coupling gasket. 1,685,852; Oct. 2.

Madden, James P., Bethlehem, Pa., assignor to Bethlehem Steel Company. Gearing mechanism. 1,686,020; Oct. 2.

Magnétas Lucifer Société Anonyme. (See Pattay, M. A., and Jaquemot, assignors.)

Main, Frank L., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Split-rim tool. 1,686,021; Oct. 2.

Manifold Supplies Company. (See Foster, Arthur L., assignor.)

Mann, Amelia, et al. (See Nye, Sherman G., assignor.)

Mann, Freda, et al. (See Nye, Sherman G., assignor.)

Mann, Helen, et al. (See Nye, Sherman G., assignor.)

Mann, William, et al. (See Nye, Sherman G., assignor.)

Manning, Fred W., Berkeley, Calif. Process of and apparatus for the continuous countercurrent treatment of liquids and solids. 1,686,092; Oct. 2.

Manning, Fred W., Berkeley, Calif. Process of and apparatus for continuous pressure filtration. 1,686,093; Oct. 2.

Manning, Fred W., Berkeley, Calif. Process of and apparatus for continuous countercurrent filtration. 1,686,094; Oct. 2.

Manning, Fred W., Berkeley, Calif. Continuous expelling and clarifying process. 1,686,095; Oct. 2.

Manning, Fred W., Berkeley, Calif. Continuous expelling and clarifying process and apparatus. 1,686,096; Oct. 2.

Manning, Landon C., assignor to Pack Shops, Inc., New York, N. Y. Vending-machine cabinet. 1,686,091; Oct. 2.

Marbury, Ralph E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistors for shunted condensers. 1,686,022; Oct. 2.

Marcuse, Moses M., New York, assignor to West Disinfecting Company, Long Island City, N. Y. Dispensing cabinet. Re17,092; Oct. 2.

Markow, Bernard, Brooklyn, N. Y. Birdcage and the construction thereof. 1,686,242; Oct. 2.

Martin, Bert B., Marion, Ohio. Toy vehicle. 1,686,389; Oct. 2.

Marvel, Orin E., Dayton, Ohio. Vibrometer. 1,686,138; Oct. 2.

Mason Box Company, The. (See Harden, Ralph L., assignor.)

Mason, Max C., Boston, Mass. Rotary pump. 1,686,285; Oct. 2.

Mathey, Nicholas W. (See Cooke, John M., assignor.)

Mathieson Alkali Works, Inc., The. (See Mauran, Max, assignor.)

Matthews, W. N. Corporation. (See Hart, Ira B., assignor.)

Mauran, Max, Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Multiunit tank car. 1,685,926; Oct. 2.

Mavis Bottling Company of America. (See Sindall, Robert A., assignor.)

Maxey, Robert E. L., New York, N. Y. Railroad tie. 1,686,097; Oct. 2.

Mayer, Alfred, Duluth, Minn. Screen. 1,685,823; Oct. 2.

Mazzur, Amedee S., Waban, Mass. Signal system. 1,685,853; Oct. 2.

McCabe, Ira E., Chicago, Ill. Temperature-actuated electric control device. 1,686,286; Oct. 2.

McClintock, Thaddeus S., Pittsburgh, Pa. Burglar alarm. 1,686,457; Oct. 2.

McCloskey, Leo, Essex, Ontario, Canada. Pipe vise and stand. 1,686,023; Oct. 2.

McColl, Archibald I., assignor to H. M. S. McColl, Kalamazoo, Mich. Paper holder. 1,686,458; Oct. 2.

McColl, Helen M. S. (See McColl, Archibald I., assignor.)

McCook, Arthur J., Stratford, Conn., assignor to American Chain Company, Inc. Bumper bracket. 1,686,287; Oct. 2.

McCullough, William T., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,686,140; Oct. 2.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,685,855; Oct. 2.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load device. 1,685,856; Oct. 2.

McDaniel, Thomas E., Charleston, S. C., assignor to Standard Oil Development Company. Barrel-rolling device. 1,686,495; Oct. 2.

McKenney, Fred Y., assignor to R. C. Lynn, Chattanooga, Tenn. Dirigible headlight. 1,686,459; Oct. 2.

McKesson, Elmer I., assignor to The Vocophone Company, Toledo, Ohio. Artificial larynx. 1,685,824; Oct. 2.

McLaughlin, Denis P., San Diego, Calif. Elevator-control attachment for typesetting machines. 1,686,139; Oct. 2.

McLaughlin, Michael C. (See McLaughlin, Thomas E. and M. C.)

McLaughlin, Thomas E. and M. C., Holbrook, Mass. Shoe-sewing machine. 1,685,854; Oct. 2.

McMillan Book Company. (See McMillan, J. L., and Unger, assignors.)

McMillan, John L., and P. O. Unger, assignors to McMillan Book Company, Syracuse, N. Y. Flexible-post binder. 1,686,219; Oct. 2.

McNeill, Walter G., and R. Kauch, Dayton, Ohio. Adjustable ring sight. 1,686,163; Oct. 2.

Meals, Casper D., Nutley, N. J., assignor to American Cable Company, Inc. Rope sling. 1,686,288; Oct. 2.

Meiwald, Franz, Vienna, Austria. Insulated flexible conductor and producing same. 1,686,098; Oct. 2.

Merle, George, sr., Brooklyn, N. Y. Condenser. 1,686,333; Oct. 2.

Merle, George, sr., Brooklyn, N. Y. Condenser. 1,686,334; Oct. 2.

Merrill, Charles A. (See Duquette, I. L., Plasse, and Merrill.)

Merrill, Fred R., Miles City, Mont. Building front. Des. 76,491; Oct. 2.

Mertens, C. P. (See Sullivan, William J., assignor.)

Messler, Raymond E., and F. A. Ivory, Seattle, Wash. Interior tank-car cleaner. 1,686,335; Oct. 2.

Meyer, Anne W., administratrix. (See Meyer, William C.)

Meyer, Edward B., Newburgh, N. Y. Snowplow. 1,686,243; Oct. 2.

Meyer, William, Chicago, Ill. Hair drier. 1,686,024; Oct. 2.

Meyer, William C., deceased; A. W. Meyer, administratrix, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Resurfacing machine. 1,685,784; Oct. 2.

Meyers, Frank C., and H. S. Oberndorfer, Cincinnati, Ohio. Advertising device. 1,686,390; Oct. 2.

Meyers, George A. (See Taber, David R., assignor.)

Meyers, Sidney E., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Plug valve. 1,686,336; Oct. 2.

Miehle Printing Press & Manufacturing Company, The. (See Blaine, Joseph R., assignor.)

Mietz, Herman F., Franklinville, N. J. Banjo. 1,686,416; Oct. 2.

Milano, John B., Torrington, Conn. Switch. 1,686,289; Oct. 2.

Miller, Arthur, Chicago, Ill. Poultry-coop unloader. 1,686,090; Oct. 2.

Miller, Thomas S., South Orange, N. J. Method and apparatus for fueling ships at sea. 1,685,927; Oct. 2.

Miyaoka, Yataro, Spokane, Wash. Buffer for automobiles. 1,686,164; Oct. 2.

Moffat, John H., Indianapolis, Ind. Vehicle parking device. 1,686,460; Oct. 2.

Mohawk Rubber Company, The. (See Benn, Kit C., assignor.)

Molins, Walter E., London, England. Wrapping of cigarettes and other articles. 1,686,290; Oct. 2.

Moore, Jacob P., McAllen, Tex. Store fixture. 1,686,291; Oct. 2.

Moore, Stuart B., La Porte, Tex. Girder. 1,686,461; Oct. 2.

Morgan Construction Company. (See George, J. R., and Quinn, assignors.)

Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and loading apparatus. 1,686,337; Oct. 2.

Morgan, Harry, Flint, assignor to General Motors Corporation, Detroit, Mich. Lubrication of brake shafts. 1,686,025; Oct. 2.

Morgan, Lester, New York, N. Y. Pumping apparatus. 1,686,220; Oct. 2.

Morgan, Olive E., executrix. (See Morgan, Edmund C.)

Morimoto, Sataro, Minamikatsushika-Gun, Tokyo-Fu, Japan. Fixing a thin layer of sponge rubber to the surface of india-rubber goods. 1,685,954; Oct. 2.

Morrison, Montford, New York, N. Y. X-ray tube. 1,685,928; Oct. 2.

Morrow, Clarence H., assignor to The Hoistream Heater Company, Cleveland, Ohio. Water heater. 1,685,857; Oct. 2.

Morse, Robert V., Ithaca, N. Y. Tire gauge. 1,686,165; Oct. 2.

Mortimer, Arthur E., Los Angeles, Calif. Baseball puzzle. 1,686,244; Oct. 2.

Morton, Harry D., New York, N. Y. Self-locking box. 1,686,338; Oct. 2.

Mount, William D., Lynchburg, Va. Causticizing unit. 1,685,929; Oct. 2.

Mueller, Herman G., assignor to Skinner Engine Company, Erie, Pa. Reciprocating steam engine. 1,686,245; Oct. 2.

Müller, Carl, Mannheim, and L. Schlecht and W. Schubardt, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Precipitating heavy metals from ammoniacal solutions. 1,686,391; Oct. 2.

Muller, Jacques, La Garenne Colombes, France. Grease package. 1,686,166; Oct. 2.

Mullins, Robert T., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Shoulder pad. 1,685,825; Oct. 2.

Munters, Carl G. (See von Platen, B. C., and Munters.)

Mürner, Johann, Stemsburg, Switzerland. Adjustable guide. 1,686,246; Oct. 2

Murphy, Edward F., Newburgh, N. Y. Sleep-inducing pillow. 1,686,247; Oct. 2.

Murray, Stanley G. (See Richardson, H., and Murray.)

Murray, Thomas E., Brooklyn, N. Y. Pump for refrigerants and the like. 1,686,339; Oct. 2.

Murray, Thomas E., Brooklyn, N. Y. Pump for refrigerants and the like. 1,686,340; Oct. 2.

Murrow, William R. (See Winder, T. M., and Murrow.)

Musebeck, George E., assignor, by mesne assignments, to W. A. Edmonds, Milwaukee, Wis. Shoe. 1,686,292; Oct. 2.

Muth, John H., assignor to C. F. Heinkel, Cleveland, Ohio. Lock means. 1,685,785; Oct. 2.

Nathanson, Isaac R., Toledo, Ohio. Glare shield. 1,686,341; Oct. 2.

National Aniline & Chemical Co. (See Meyers, Sidney E., assignor.)

National Aluminate Corporation. (See Evans, Wilson, assignor.)

National Graphite Lubrication Company. (See Watres, Lewis S., assignor.)

National Sales Company. (See Kibby, Albert S., assignor.)

National Sewing Machine Company. (See List, Raymond F., assignor.)

National Standard Company. (See Hopkins, Arthur C., assignor.)

National Teleregister Corporation. (See Favarger, François, assignor.)

Neelmeier, Wilhelm, Leverkusen, near Cologne-on-the-Rhine, and T. Nocken, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Naphthophenazine dyestuffs. 1,686,026; Oct. 2.

Nelis, Joseph J., Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Superheater for Scotch boilers. 1,685,930; Oct. 2.

Nelson, Claude A. (See Thomas, T. H., and Nelson.)

Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,685,858; Oct. 2.

Nethercutt, Edgar S. (See Peterson, Burt A., assignor.)

Neuy, Heinrich, Hamburg, Germany. Vehicle for receiving and transporting refuse and the like. 1,686,167; Oct. 2.

Newbury, Frank D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inert-gas protective chamber for hydrogen-cooled machines. 1,686,027; Oct. 2.

Nihlros, Andrew B., Murray City, Utah. Spring wheel. 1,686,168; Oct. 2.

Nixon, Moses C., Chicago, Ill. Propeller blade. 1,685,881; Oct. 2.

Nocken, Theodor. (See Neelmeier, W., and Nocken.)

Noel, Eli, Kansas City, Mo. Universal joint. 1,685,859; Oct. 2.

Nolen, Josephine. (See Du Priest, Guy, assignor.)

Noll, Albert, Duisburg, Germany. Shears for cutting blocks or bars. 1,686,392; Oct. 2.

Norman, William, Norman, Nebr. Door catch. 1,686,417; Oct. 2.

Norton, Samuel H., Meadville, Pa. Chain hoist. 1,686,496; Oct. 2.

Notkin, Jacob, Roxbury, Mass. Article of pastry. Des. 76,492; Oct. 2.

Nutt, Frank N., assignor to A C Spark Plug Company, Flint, Mich. Instrument-board assembly. 1,686,169; Oct. 2.

Nye, Sherman G., Colorado Springs, assignor of one-half to D. B. Simon and one-fourth to A. Mann, W. Mann, H. Mann, and F. Mann, Denver, Colo. Telegraph indicator. 1,686,293; Oct. 2.

Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Electric-light socket. 1,686,248; Oct. 2.

Oakley, Richard O., St. Louis, Mo. Filler weather strip. 1,686,101; Oct. 2.

Oberdorfer, Hans S. (See Meyers, F. C., and Oberdorfer.

Ohio Brass Company, The. (See Austin, Arthur O., assignor.)

Ohio Steel Foundry Company, The. (See Harbison, Clarence B., assignor.)

Ohm, Albert J. D., Oak Park, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 76,493; Oct. 2.

Okell, Stanley A. W., Tyrone, Pa., and L. Wickenden, Flushing, assignors to Industrial Chemical Company, New York, N. Y. Apparatus for the activation or revivification of carbon. 1,686,100; Oct. 2.

Olinger, Thomas, assignor to Federal Manufacturing Company, Holland, Mich. Furnace-flue cleaner. 1,686,249; Oct. 2.

Oliver, Ernon V., Pasadena, Calif. Water still. 1,686,418; Oct. 2.

Olsen, Norman D., assignor to Acme Aluminum Foundry Company, Chicago, Ill. Securing means for detachable handles. 1,686,497; Oct. 2.

Opitz, John L., Clarinda, Iowa. Detachable steering mechanism for tractors. 1,686,170; Oct. 2.

Ory, Gaston. (See Woudhuysen, J., and Ory.)

Oshima, Kokichi, Sapporo, Japan. Preventing the blackening of tinned foods. 1,686,393; Oct. 2.

Otaka Fabric Company, The. (See Lorenz, William A., assignor.)

Overman Cushion Tire Company. (See Overman, Max C., assignor.)

Overman, Max C., New York, N. Y., assignor to Overman Cushion Tire Company Inc. Tire. 1,685,955; Oct. 2.

Owens, Freeman H., New York, N. Y. Photographic film and magazine therefor. 1,686,462; Oct. 2.

Owens, Freeman H., New York, N. Y. Focusing device for cameras. 1,686,463; Oct. 2.

Owens, James P., Weatherford, Tex. Insect-gathering machine. 1,686,394; Oct. 2.

Pack Shops, Inc. (See Manning, Landon C., assignor.)

Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Circular-knitting machine. 1,685,860; Oct. 2.

Page, Herbert E., Syracuse, N. Y. Cable grip. 1,686,250; Oct. 2.

Palmer, Alphonso T., Chicago, Ill. Rail clamp. 1,686,028; Oct. 2.

Palmer, Alphonso T., Chicago, Ill. Switch-point guard. 1,686,342; Oct. 2.

Panhandle Steel Products Company, The. (See Lee, Rufus E., assignor.)

Paper Patents Company. (See Henderson, Charles L., assignor.)

Papson, John J., Dickson City, Pa. Smoker's pipe. 1,686,419; Oct. 2.

Parker, Howard, assignor to Brown Company, Berlin, N. H. Coupling for fiber pipes. 1,686,498; Oct. 2.

Parker, Howard, assignor to Brown Company, Berlin, N. H. Dispensing cabinet. 1,685,861; Oct. 2.

Parker, Howard, assignor to Brown Company, Berlin, N. H. Dispensing cabinet. 1,685,862; Oct. 2.

Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)

Parsons, John H., Pontiac, Mich. Window regulator. 1,686,171; Oct. 2.
Patch, Fred R., Rutland, Vt. Stone-sawing machine. 1,685,863; Oct. 2.
Patch, Fred R., Rutland, Vt. Stone-sawing machine. 1,685,864; Oct. 2.
Pattay, Marc A. and E. Jaquemot, Geneva, assignors to Magnétas Lucifer Société Anonyme, Carouge-Geneva, Switzerland. Inductor for magneto-electric machines. 1,686,343; Oct. 2.
Paulus, Charles L. (See Kauch, R., and Paulus.)
Pawsat, Ewald F., Maysville, Ky., assignor to Wald Manufacturing Company. Bicycle repair plate. 1,685,882; Oct. 2.
Pennsylvania Rubber Company (See Heefner, La Port W., assignor.)
Pentland, Robert L. (See Bascom, H. M., Arnold, and Pentland.)
Perry, James L., Honolulu, Hawaii. Craftsman's stool. 1,686,464; Oct. 2.
Peterson, Burt A., Rockford, assignor, by mesne assignments to E. S. Nethercutt, Evanston, Ill. Winder. 1,686,102; Oct. 2.
Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Lubricating device. 1,685,865; Oct. 2.
Phelps & Dewees et al. (See Uhl, George A., assignor.)
Phillips, Jacob A., Glen Ridge, N. J. Stocking. Des. 76,495; Oct. 2.
Phillips, Jacob A., Glen Ridge, N. J. Stocking. Des. 76,496; Oct. 2.
Phillips, Ray V., Brooklyn, N. Y. Insulated contact member. 1,686,251; Oct. 2.
Phœnix, Harold. (See Randon, T., and Phœnix.)
Photometeric Products Corporation. (See Ladd, Lester L., assignor.)
Pierce, Raymond T., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor control. 1,686,029; Oct. 2.
Pietsch, James A., St. George, N. Y. Door. Des. 76,494; Oct. 2.
Pitt, Robert B., Bath, assignor to Stothert & Pitt, Limited, Newark Works, Bath, England. Rope conveyer. 1,686,030; Oct. 2.
Plant, Leland G., Chicago, Ill. Locomotive terminal. 1,686,103; Oct. 2.
Plasse, Wilfred J. (See Duquette, I. L., Plasse, and Merrill.)
Podszus, Emil, Berlin-Friedrichshagen, assignor to Hartstoff-metall Aktiengesellschaft (Hametag) Berlin-Copenick, Germany. Whirling mill for the production of finely-divided powder. 1,685,956; Oct. 2.
Poeppelmeier, Frank H., assignor to The Typographic Machines Company, Dayton, Ohio. Type-composing board. 1,686,031; Oct. 2.
Poirier, Louis C., Merrill, Wis. Antenna for radio receiving sets. 1,686,465; Oct. 2.
Poole, Herbert C. (See Wysong, Maxwell W., assignor.)
Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attaching machine. 1,686,252; Oct. 2.
Porte, Frederick L., Utica, N. Y. Knitted fabric. 1,686,172; Oct. 2.
Possons, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas range. Des. 76,497; Oct. 2.
Potter, Albert T., assignor to Ainsworth Manufacturing Co., Detroit, Mich. Worm-drive windshield regulator. 1,685,786; Oct. 2.
Powell, John R. (See Bausch, W., and Powell.)
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,686,173; Oct. 2.
Price, Everett H. (See Cummings, Robert T., assignor.)
Prinz, Albert Wald, Germany. Spoon or analogous article. Des. 76,499; Oct. 2.
Prosperity Company Inc., The (See Braun, Philip N., assignor.)
Prosperity Company Inc., The. (See Davis, Ernest, assignor.)
Prosperity Company, Inc., The. (See Ledbetter, James C., assignor.)
Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Bead-covering machine. 1,686,466; Oct. 2.
Quiggle, Edgar J., Shelby, Ohio. Curtain stretcher. 1,686,253; Oct. 2.
Quinn, Edward J. (See George, J. R., and Quinn.)
Rachlin, Max, Brooklyn, N. Y. Sheet-metal-pipe coupling. 1,686,254; Oct. 2.
Radel, John J., Newark, N. J. Golf club. 1,685,826; Oct. 2.
Ran, Mart D., Lincoln, Nebr. Fender-straightening device. 1,686,442; Oct. 2.
Randon, Thadeus, and H. Phœnix, Wilkes-Barre, Pa. Combined sash lock and signal-switch actuator. 1,686,032; Oct. 2.
Rauch, John D., assignor to The Cast Steel Devices Co., Lima, Ohio. Locomotive frame. 1,686,104; Oct. 2.
Rauschenberger, George W., Butler, Pa. Apparatus for coating candies, cakes, etc. 1,686,174; Oct. 2.
Ray, Arthur B., Flushing, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Separating gas mixtures. 1,685,883; Oct. 2.
Raymond, Fairfield E., assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Safety and relief valve. 1,685,866; Oct. 2.
Read, David Y., Washington, D. C. Footwear retainer. 1,686,175; Oct. 2.
Redfield-Kendrick-Odell Co. Inc. (See Drake, Norman C., assignor.)
Remington Arms Company. (See Loomis, Crawford C., assignor.)
Renauldt, Louis. (See Salves, Léon, assignor.)
Rendle, Thomas, Ottawa, Ill. Shoe-repairing stand. 1,686,467; Oct. 2.
Repko, John S., assignor to The Hudson Coal Company, Scranton, Pa. Rotary mine-car dump. 1,686,420; Oct. 2.
Republic Flow Meters Company. (See Spitzglass, Jacob M., assignor.)
Rhodes-Hochriem Manufacturing Co. (See Hochriem, Gustav F., assignor.)
Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Ledger-blade construction for cloth shears. 1,686,499; Oct. 2.
Richardson, Henry, and S. O. Murray, Clifton, N. J. Automatic weighing machine. 1,686,502; Oct. 2.
Ricke, George H., Cincinnati, Ohio. Spark plug. 1,686,395; Oct. 2.
Ridder, Thomas A., Wollaston, Mass. Radiator. 1,686,396; Oct. 2.
Riley, Lynn G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,686,033; Oct. 2.
Rinkenbach, William H., Dover, N. J., assignor of one-half to W. O. Snelling, Allentown, Pa. Diethylene glycol dinitrate and preparing same. 1,686,344; Oct. 2.
Robergel, Gabriel, Vincennes, France. Distributor for slender articles of elongated shape. 1,686,255; Oct. 2.
Roberts, Clifford, Reigate, England. Heel for boots and shoes. 1,686,397; Oct. 2.
Robin, Philip T., Aspinwall, and W. M. Venable, Pittsburgh, Pa., assignors to Blaw-Knox Company. Lever-arm bucket. 1,686,176; Oct. 2.
Rodekohr, Arthur F., Battle Creek, Nebr. Vehicle bed. 1,686,294; Oct. 2.
Rogers Products Co. (See Zabriskie, Charles L., assignor.)
Rohrbacher, Albert L., jr., Boston, Mass. Work shoe. 1,686,399; Oct. 2.
Rosekelly, Frank E., Huron, Ohio. Plow attachment. 1,686,177; Oct. 2.
Rosenbaum, Benjamin, New York, N. Y. Fluid-mixing valve. 1,685,867; Oct. 2.
Rosenberg, Heyman, New York, N. Y. Fastener. 1,686,468; Oct. 2.
Roser, Mathias F., Detroit, Mich. Arch support. 1,686,034; Oct. 2.
Rosman, Joseph, New York, N. Y. Necktie retainer. 1,686,409; Oct. 2.
Ross, James C. (See Davis, E. P., Ross, and Smith.)
Roth, Albert, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Maximum-demand device. 1,686,035; Oct. 2.
Rothenberg, Louis S., Brookline, Mass. Amusement and educational device. 1,686,105; Oct. 2.
Rowan, William H. (See Alexander, R. B., and Rowan.)
Royle, Vernon, Paterson, N. J. Apparatus for distributing powdered material. 1,686,256; Oct. 2.
Rubin, Adolph, assignor to Sieber Products Manufacturing Company, St. Louis, Mo. Loose-leaf binder. 1,685,957; Oct. 2.
Russell, Robert G., Burgettstown, Pa. Carburetor-choker control. 1,686,421; Oct. 2.
Russo, Salvatore, New York, N. Y. Advertising device for cash registers. 1,686,345; Oct. 2.
Ryder, Harry M., Sharpsburg, Md., assignor to Westinghouse Electric & Manufacturing Company. Automatic train control and cab signaling. 1,686,036; Oct. 2.
St. Louis, George C., Fresno, assignor of one-half to F. A. Spooner, Willows, Calif. Aeroplane. 1,685,888; Oct. 2.
Saler, Edward H. (See Gregory, Eugene, assignor.)
Salves, Léon, assignor to L. Renault, Billancourt, France. Metallic flooring plate for shops and like uses. 1,686,106; Oct. 2.
Saklad, William, Boston, Mass. Making boots and shoes. 1,685,827; Oct. 2.
Sanchez, Vicente, Ponoman, Ill. Ore-grading machine. 1,685,828; Oct. 2.
Sandberg, Andrew, Seattle, Wash. Lamp socket. 1,685,257; Oct. 2.
Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal cut-out. 1,685,958; Oct. 2.
Sands, Henry F. (See Bloomer, C. G., and Sands.)
Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake drum. 1,686,346; Oct. 2.
Sather, James A., Oakland, Calif. Vending machine. 1,686,178; Oct. 2.
Sauvage, Stanley, Chicago, Ill. Cooking apparatus. 1,685,829; Oct. 2.
Scheibe, Adolf. (See Giebe, E., and Scheibe.)
Scheuermann, Otto, Sharon, Pa. Automatic arcless plug connection. 1,686,347; Oct. 2.
Schidorsky, Theodore, New York, N. Y. Water fountain. 1,685,830; Oct. 2.

Schiller, Ferdinand, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,685,960; Oct. 2.
Schlecht, Leo. (See Müller, C., Schlecht, and Schubardt.)
Schlesinger, Ike, East Orange, N. J. Knitted cap. 1,686,258; Oct. 2.
Schleyer, Victor, assignor, by mesne assignments, to Dean Hill Pump Company, Anderson, Ind. Controller governor. 1,685,868; Oct. 2.
Schmerber, Lee B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Swivel head for coil-pulling machines. 1,685,959; Oct. 2.
Schmidt, Gustave F., Chicago, Ill. Generator. 1,686,348; Oct. 2.
Schmidtke, Frieda, Berlin, Germany. Lamp. 1,686,503; Oct. 2.
Schnepf, Johann, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Resistor support. 1,686,037; Oct. 2.
Schnur, Joseph A., St. Louis, Mo. Refrigerator. 1,686,179; Oct. 2.
Schoenfeld, Gustav, Great Falls, Mont. Leaf turner. 1,686,422; Oct. 2.
Schubardt, Walter. (See Müller, C., Schlecht, and Schubardt.)
Schultz, Joseph D., Mount Clemens, Mich. Alarm device. 1,686,295; Oct. 2.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 76,500; Oct. 2.
Schwarber, Henry, Weehawken, N. J. Embroidered lace medallion. Des. 76,501; Oct. 2.
Schwertner, David, Leipsic, Ohio. Humidifying device for internal-combustion engines. 1,686,470; Oct. 2.
Scott, John. (See Brenner, R. S., and Scott.)
Scott, Walter M., et al. (See Hans, E. E., and Henry, assignors.)
Scott & Williams, Incorporated. (See Page, Albert E., assignor.)
Scott & Williams, Incorporated. (See Williams, Louis N. D., assignor.)
Scovill Manufacturing Company. (See Coryell, Charles N., assignor.)
Scranton Lace Company, The. (See Erhard, Gustave F., assignor.)
Scoholm, Ernest W., assignor to General Motors Corporation, Detroit, Mich. Radiator cap. 1,686,038; Oct. 2.
Sedita, Salvatore, Buffalo, N. Y. Washing machine. 1,686,259; Oct. 2.
Seng Company, The. (See Lamb, Charles I., assignor.)
Sewell, Cyrus G., Abilene, Tex. Laundry-assorting apparatus. 1,686,471; Oct. 2.
Sewell, Wilbur S., assignor to Strong-Scott Manufacturing Co., Minneapolis, Minn. Air-controlled purifier. 1,686,107; Oct. 2.
Shaw, Harold N., Milwaukee, Wis., assignor, by mesne assignments, to Globar Corporation, Philadelphia, Pa. Electrical heating apparatus. 1,686,108; Oct. 2.
Shawmut Engineering Company. (See Hathaway, E. F., and Bixby, assignors.)
Sheffield, G. H., & Company, Engineers, Limited. (See Sheffield, G. H., and Twinberrow, assignors.)
Sheffield, George H., and J. D. Twinberrow, assignors to G. H. Sheffield & Company, Engineers, Limited, London, England. Construction of bogie trucks for railway and like vehicles. 1,686,182; Oct. 2.
Shiffer, Charles E., Wilmington, Del. Fuel-feed system. 1,686,180; Oct. 2.
Shofner, Joseph C., Haley, Tenn. Automobile headlight structure. 1,685,869; Oct. 2.
Short, Charles R., assignor to General Motors Research Corporation, Detroit, Mich. Cooling-water distribution. 1,686,039; Oct. 2.
Shuell, Frank W., and E. E. Ledbetter, assignors to The Ever Hot Heater Company, Detroit, Mich. Internal-combustion radiator unit. 1,685,870; Oct. 2.
Sidway-Topliff Company. (See Wolfe, George N., assignor.)
Sieber Products Manufacturing Company. (See Rubin, Adolph, assignor.)
Signal Gesellschaft mit beschränkter Haftung. (See Lichte, Hugo, assignor.)
Simmon, Karl A., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,686,040; Oct. 2.
Simon, D. B., et al. (See Nye, Sherman G., assignor.)
Simpson, Charles W., La Feria, Tex. Antifriction-bearing support for drawers. 1,686,472; Oct. 2.
Simpson, Charles W., La Feria, Tex. Antifriction-bearing support for drawers. 1,686,473; Oct. 2.
Simpson, George N., Chicago, Ill. Cylinder-grinding machine. 1,686,181; Oct. 2.
Sindall, Robert A., assignor, by mesne assignments, to Mavis Bottling Company of America, Baltimore, Md. Spray attachment for retorts. 1,685,884; Oct. 2.
Skinner Engine Company. (See Mueller, Herman G., assignor.)
Skuttle, John L., Mason City, Iowa. Automatic water-control valve. 1,686,296; Oct. 2.
Slade, Roland E., Billingham-on-Tees, England, assignor to Atmospheric Nitrogen Corporation, New York, N. Y. Conducting gaseous catalytic reactions and apparatus therefor. 1,686,349; Oct. 2.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Metal structure for railway cars. Re17,095; Oct. 2.
Smith, Benjamin H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Frequency regulator. 1,685,961; Oct. 2.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Copyholder for typewriting machines. 1,686,350; Oct. 2.
Smith, John G., Wahoo, Nebr. Otoscope. 1,686,041; Oct. 2.
Smith, John J. (See Fowler, B. L., and Smith.)
Smith, Martin E. (See Davis, E. P., Ross, and Smith.)
Smith, Marvin W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current transmission system. 1,685,963; Oct. 2.
Smith, William W., Jersey City, N. J. Boiler. 1,685,962; Oct. 2.
Smith, William W., and R. W. Erickson, Jersey City, N. J. Electric torsion power meter. 1,685,964; Oct. 2.
Smoot, Charles H., Maplewood, N. J. Regulation by proportionate pressure and apparatus therefor. 1,685,787; Oct. 2.
Smoot, Charles H., Maplewood, N. J. Furnace regulation. 1,685,788; Oct. 2.
Snelling, Walter O., Allentown, Pa. Current-rectifying device. 1,686,183; Oct. 2.
Snelling, Walter O., Allentown, Pa. Contact rectifying device. 1,686,260; Oct. 2.
Snelling, Walter O. (See Rinkenbach, William H., assignor.)
Snider, Roscoe O. (See Stott, Grover T., assignor.)
Snyder, George C., Long Island City, assignor to Kaelma Manufacturing Company, Inc., New York, N. Y. Bag or envelope. 1,685,885; Oct. 2.
Söderberg, Carl W., assignor to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Self-baking electrode. 1,686,474; Oct. 2.
Solomon, Arthur, New York, N. Y. Textile fabric. Des. 76,502; Oct. 2.
Southgate, Louis W., Washington, D. C. Method of and apparatus for causing oil to flow through pipe lines. 1,686,475; Oct. 2.
Spalding, A. G., & Bros. (See Mullins, Robert T., assignor.)
Spang and Company. (See Spang, Ferdinand J., assignor.)
Spang, Ferdinand J., assignor to Spang and Company, Butler, Pa. Well plug. 1,686,185; Oct. 2.
Spang, George A., Butler, Pa. Combined bailer and jar. 1,686,184; Oct. 2.
Specht, Elsie D. (See Curnick, H., and Specht.)
Speller, Frank N., Pittsburgh, Pa. Concrete-reenforcing member. 1,685,886; Oct. 2.
Spengler, Henry, New York, N. Y. Bottle cap. 1,685,887; Oct. 2.
Spitzglass, Jacob M., assignor to Republic Flow Meters Company, Chicago, Ill. Furnace efficiency meter. 1,686,186; Oct. 2.
Spitzglass, Jacob M., assignor to Republic Flow Meters Co., Chicago, Ill. Coal meter. 1,686,351; Oct. 2.
Spooner, Francis A. (See St. Louis, George C., assignor.)
Spooner, Thomas, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Magnetic testing apparatus and method of testing. 1,685,965; Oct. 2.
Standard Forgings Company. (See Jernberg, Carl R., assignor.)
Standard Oil Development Company. (See Brenner, R. S., and Scott, assignors.)
Standard Oil Development Company. (See Buc, Hyym E., assignor.)
Standard Oil Development Company. (See Howard, Frank A., assignor.)
Standard Oil Development Company. (See Hughes, W. S., and Harrop, assignors.)
Standard Oil Development Company. (See Lewis, Warren K., assignor.)
Standard Oil Development Company. (See McDaniel, Thomas E., assignor.)
Stastny, Gottlieb I., New York, N. Y. Rotary compressor. 1,686,505; Oct. 2.
Steele, Lawrence C., Baltimore, Md. Rolling-mill screw-down mechanism. 1,686,042; Oct. 2.
Sterilizable Tooth Brush Container Company. (See Frayer, Harry C., assignor.)
Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-making machine. 1,686,043; Oct. 2.
Stewart, Robert S., Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y. Annealing pot. 1,685,966; Oct. 2.
Stinson, Damon E., Portland, Oreg. Reflector. 1,686,476; Oct. 2.
Stokes and Smith Company. (See Baker, Joseph W., assignor.)
Stoner, Charles M., assignor to The Wolf Company, Chambersburg, Pa. Automatic sack packer. 1,686,477; Oct. 2.
Stoop, William J., Wheeling, W. Va. Metal-scraping apparatus. 1,686,398; Oct. 2.
Stothert & Pitt, Limited. (See Pitt, Robert B., assignor.)

Stott, Grover T., assignor of one-half to R. O. Snider, Springfield, Ohio. Cable-slitting device. 1,686,044; Oct. 2.

Strahan, Joseph C. J., New York, N. Y. Woman's stocking. 1,686,478; Oct. 2.

Strand, Joseph, assignor to Klinch Lath Corporation, Los Angeles, Calif. Wall-board retainer. 1,686,187; Oct. 2.

Strong-Scott Manufacturing Co. (See Sewell, Wilbur S., assignor.)

Stuckey, Samuel G., Middletown, Ohio. Glass-feed-control mechanism. 1,686,109; Oct. 2.

Sullivan, William J., assignor of one-half to C. P. Mertens, Chicago, Ill. Burner. 1,685,967; Oct. 2.

Sumet Corporation. (See Judy, Wilbur H., assignor.)

Sundvik, Karl H. (See Johnson, G. M., and Sundvik.)

Sweet, Henry W., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Adjustable clutch brake. 1,686,352; Oct. 2.

Sweets Company of America, The. (See Fehn, Henry A., assignor.)

Taber, David R., assignor of one-third to G. A. Meyers, Washington, D. C. Theft-preventing device. 1,686,045; Oct. 2.

Tampkin, Hyman, Brooklyn, N. Y. Wire fabric. 1,686,110; Oct. 2.

Tatham, Norman, Los Angeles, Calif. Scale casing. Des. 76,505; Oct. 2.

Taylor, William H., Des Moines, Iowa. Window structure. 1,686,046; Oct. 2.

Tenney, Perry L., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Transmission-locking device. 1,686,047; Oct. 2.

Thibert, Augustin, Joques, Ontario, Canada. Cattle guard for railroads. 1,685,889; Oct. 2.

Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Testing device. 1,685,789; Oct. 2.

Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,685,790; Oct. 2.

Thomas, Frank. (See Edwards, Richard M., assignor.)

Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,686,111; Oct. 2.

Thomas, Thomas H., Edgewood, and C. A. Nelson, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake device. 1,685,890; Oct. 2.

Thompson, Anthony W., California, Mo. Grave cover. 1,686,048; Oct. 2.

Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction block. 1,686,189; Oct. 2.

Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction block. 1,686,190; Oct. 2.

Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction block. 1,686,191; Oct. 2.

Thomson, John M., Bronx, N. Y. Exercising device. 1,686,423; Oct. 2.

Thomson, John M., Long Island City, N. Y., and P. Hardy, Bridgeport, Conn. Fastening device. 1,686,424; Oct. 2.

Till, William F., Broklyn, N. Y. Making toilet seats. 1,686,049; Oct. 2.

Tilley, George S., Mill Valley, Calif. Separation of alumina from alum. 1,686,112; Oct. 2.

Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,686,113; Oct. 2.

Tipton, Edna S., Jackson Heights, N. Y. Perfume container and dispenser. 1,686,188; Oct. 2.

Tischler, Joseph J. and W. A., St. Paul, Minn. Child's vehicle. Des. 76,503; Oct. 2.

Tischler, Wendelin A. (See Tischler, Joseph J. and W. A.)

Toledo Scale Company. (See Hem, Halvor O., assignor.)

Toledo Scale Company. (See Thomas, Edward G., assignor.)

Toledo Scale Company. (See Wetzel, Lewis C., assignor.)

Torres y Curbelo, José M., Habana, Cuba. Refrigerator. 1,686,205; Oct. 2.

Torriani, Angelo, Pavia, Italy. Thermoelectric heater. Re17,093; Oct. 2.

Towne, Walter M., New York, assignor, by mesne assignments, to E. W. Bliss Company, Brooklyn, N. Y. Working zinc. 1,686,353; Oct. 2.

Townend, Robert, Chorlton-cum-Hardy, and J. A. Kuyser, Sale, England, assignors to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. 1,685,970; Oct. 2.

Townsend, George H., Greenwich, Conn., assignor, by mesne assignments, to The Kingsley-Miller Company, Chicago, Ill. Radiator cap. Des. 76,504; Oct. 2.

Travers, Charles J., assignor to Gilson Manufacturing Company, Port Washington, Wis. Tractor and hitch construction. 1,685,968; Oct. 2.

Trego, Glenn P., Mexico, Pa. Windshield wiper. 1,686,400; Oct. 2.

Trenkamp, Herman J., et al. (See Küttel, Karl, assignor.)

Tresise, Raleigh E., et al. (See Hans, E. E. and Henry, assignors.)

Trimble, Ernest L., Philadelphia, Pa. Window-shade pull-cord clip. 1,686,297; Oct. 2.

Trinity Wheel Corporation. (See Baker, Frederick W., assignor.)

Trinkle, Frederick A., Harvey, Ill. Power plant. 1,685,791; Oct. 2.

Twinberrow, James D. (See Sheffield, G. H., and Twinberrow.)

Typographic Machines Company, The. (See Poeppelmeier, Frank H., assignor.)

Uhl, George A., assignor of one-third to G. E. Ginter and one-third to Phelps & Dewees, San Antonio, Tex. Air or seaplane station. 1,686,298; Oct. 2.

Uhle, David J. (See Amme, E., Dienst, and Uhle.)

Underwood Elliott Fisher Company. (See Lasher, Hiram S., assignor.)

Underwood Elliott Fisher Company. (See Lindburg, Joseph, assignor.)

Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)

Unger, Paul O. (See McMillan, J. L., and Unger.)

Union Metal Products Company. (See Small, Arthur E, assignor.)

United Shoe Machinery Corporation. (See Gouldbourn, J., and Woodcock, assignors.)

United Shoe Machinery Corporation. (See Meyer, William C., assignor.)

United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)

United States Hoffman Machinery Corporation. (See Cohen, Hyman E., assignor.)

United States Sanitary Manufacturing Company, The. (See Henricks, Henry E., assignor.)

Valsey, Harold C. assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 76,506; Oct. 2.

Van Hoofstadt, Edward. (See Greenbaum, L., Van Hoofstadt, and Gustavson.)

Veitch, Thomas, Bradley Beach, N. J., assignor to forty per cent to P. M. Abrahams and twenty per cent to I. G. Cass, New York, N. Y. Vacuum fuel-feeding device for internal-combustion engines. 1,686,209; Oct. 2.

Venable, William M. (See Robin, P. T., and Venable.)

Vericel, Antonle, Bladwin, N. Y., assignor to Doehler Die-Casting Co. Pan or the like. Des. 76,507; Oct. 2.

Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)

Victor Talking Machine Company. (See Buckle, Horace L. T., assignor.)

Vidor, William H., Maplewood, assignor to Gloria Manufacturing Corp., Newark, N. J. Loud speaker. 1,686,192; Oct. 2.

Vietti, Joseph M., Clinton, Ind. Swimming pool. 1,685,969; Oct. 2.

Vocophone Company, The. (See McKesson, Elmer I., assignor.)

Volvod, Louis M., Warren, Ohio. Badge. Des. 76,508; Oct. 2.

Vollrath, Edwin, Easton, Pa. Belt clamp. 1,686,300; Oct. 2.

Von der Heyde, George, Montclair, N. J. Golf club. 1,686,323; Oct. 2.

Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,686,425; Oct. 2.

Wagenhorst, James H., Jackson, Mich. Demountable rim and fastening same. 1,686,301; Oct. 2.

Waggoner, Ralph, Los Angeles, Calif. Lighting standard. Des. 76,509; Oct. 2.

Wald Manufacturing Company. (See Pawsat, Ewald F., assignor.)

Waldron, John, Corporation. (See Waldron, W. H., and Case, assignors.)

Waldron, William H., and L. B. Case, assignors to John Waldron Corporation, New Brunswick, N. J. Coating machine. 1,686,426; Oct. 2.

Wall, Lester S. (See Ballou, Walter B. and H. M., and Wall.)

Wallace, James F., assignor to Certo Corporation, Rochester, N. Y. Merchandise package. 1,686,354; Oct. 2.

Wallgren, Paul T., Chicago, Ill. Wheeled toy vehicle. 1,686,427; Oct. 2.

Walter, Clarence H., Niles, Mich. Fish bait or lure. 1,686,114; Oct. 2.

Walters, Charles A., Marion, Iowa. Automobile driving mechanism for implements. 1,686,193; Oct. 2.

Walther, Martin, assignor to Det Norske Aktieselskab for Elektrokemisk Industrie of Norway, Oslo, Norway. Distance handling of electrodes. 1,686,302; Oct. 2.

Waltz, Foster V., St. Louis, Mo. Automobile awning. 1,686,050; Oct. 2.

Warren, John T., Brooklyn, N. Y. Railway car. 1,685,792; Oct. 2.

Watkin, William M., and G. C. Finley, Long Beach, Calif. Water-closet ventilator. 1,685,891; Oct. 2.

Wattie, William M., Worcester, Mass. Mat. 1,686,303; Oct. 2.

Watres, Lewis S., Scranton, Pa., assignor to National Graphite Lubrication Company, Wilmington, Del. Apparatus for abrading graphite or similar material. 1,685,892; Oct. 2.

Watzl, Ernst J., et al. (See Küttel, Karl, assignor.)

Weber, Henry C. P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Preventing explosions. 1,686,051; Oct. 2.

Weberg, Olaf, Dearborn, Mich. Detachable antiskid tread. 1,686,052; Oct. 2.

Wells, James F., St. Louis, Mo. Oil cleaner for automobile engines. 1,686,304; Oct. 2.

Wenak, Archie C., Muscatine, Iowa. Boring bar. 1,686,428; Oct. 2.

Wente, Edward C., assignor to Western Electric Company, Incorporated, New York, N. Y. Translating device. 1,686,355; Oct. 2.

West Disinfecting Company. (See Marcuse, Mosea M., assignor.)

West, John L., Abingdon, Berks, England. Mold for making roofing tiles. 1,686,305; Oct. 2.

Western Electric Company. (See Dodge, H. F., and Frederick, assignors.)

Western Electric Company. (See Wente, Edward C., assignor.)

Western Shade Cloth Company. (See Freestate, Charles P., assignor.)

Western Union Telegraph Company, The. (See Janson, George W., assignor.)

Westinghouse Air Brake Company, The. (See Dean, William E., assignor.)

Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)

Westinghouse Air Brake Company, The. (See Mackert, Albert A., assignor.)

Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)

Westinghouse Air Brake Company, The. (See Thomas, T. H., and Nelson, assignors.)

Westinghouse Electric & Manufacturing Company. (See Andersen, Niels K., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bakken, Andrew H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Baxter, Harold G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)

Westinghouse Electric and Manufacturing Company. (See Brown, James M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Dann, Walter M., assignor.)

Westinghouse Electric and Manufacturing Company. (See Dobson, J. V., and Jones, assignors.)

Westinghouse Electric & Manufacturing Company. (See Drake, Chester W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ellis, Alfred G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Else, Harry D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Fechheimer, Carl J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Field, Allan B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Freeman, Hubert M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Gano, Harlan S., assignor.)

Westinghouse Electric & Manufacturing Company. (See Halfverson, Gustaf A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hibbard, Lloyd J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Houck, Harry W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Jablow, Charles, assignor.)

Westinghouse Electric & Manufacturing Company. (See Keene, Alvin D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lehr, Edwin, assignor.)

Westinghouse Electric & Manufacturing Company. (See Loewe, Siegmund, assignor.)

Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)

Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Newbury, Frank D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)

Westinghouse Electric & Manufacturing Company. (See Riley, Lynn G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Roth, Albert, assignor.)

Westinghouse Electric & Manufacturing Company. (See Ryder, Harry M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Sandin, Maurits J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Schiller, Ferdinand, assignor.)

Westinghouse Electric & Manufacturing Company. (See Schmerber, Lee B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Schnepf, Johann, assignor.)

Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Smith, Benjamin H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Smith, Marvin W., assignor.)

Westinghouse Electric and Manufacturing Company. (See Spooner, Thomas, assignor.)

Westinghouse Electric & Manufacturing Company. (See Townend, R., and Kuyser, assignors.)

Westinghouse Electric & Manufacturing Company. (See Weber, Henry C. P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Wise, Allen S., assignor.)

Westinghouse Electric & Manufacturing Company. (See Woodson, James C., assignor.)

Westinghouse Lamp Company. (See Gero, William B., assignor.)

Westinghouse Lamp Company. (See Goodspeed, Franklin S., assignor.)

Westlake, Albert, New York, N. Y. Bottle cap. 1,686,356; Oct. 2.

Weston, Sidney F. (See Adams, Charles, jr., assignor.)

Wetzel, Lewis C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,685,793; Oct. 2.

Whalen, Nicholas D., assignor to E. C. Healy, Attleboro, Mass., doing as J. T. Healy & Son. Bracelet chain or similar article. Des. 76,510; Oct. 2.

Wheary, George H., and M. Kurten, assignors to Wheary Trunk Co., Racine, Wis. Drawer-locking device. 1,686,194; Oct. 2.

Wheary Trunk Co. (See Wheary, G. H., and Kurten, assignors.)

Wheatley, Robert L., Hammond, Ind., assignor of one-tenth to F. D. Wilson, Harvey, Ill. Material loader. 1,686,053; Oct. 2.

Wheeler, William A. (See Dwyer, C. A., and Wheeler.)

White, John W., Buffalo, N. Y. Wheel. 1,686,479; Oct. 2.

White Sewing Machine Corporation. (See Hillix, Foster F., assignor.)

Whitehead, T. C. (See Heideman, Fred J., assignor.)

Whitehead, Thomas C., Detroit, Mich. Brine tank. 1,685,794; Oct. 2.

Whiteside, Howard A., Rye, N. Y. Shaving brush and soap outfit. 1,686,055; Oct. 2.

Whitney, Clarence E., et al., executors. (See Hanson, Bengt M. W.)

Whorff, Frederick E., Mill Valley, assignor of one-fourth to W. R. Whorff, San Francisco, Calif. Dehydrating device. 1,686,500; Oct. 2.

Whorff, William R. (See Whorff, Frederick E., assignor.)

Wickenden, Leonard. (See Okell, S. A. W., and Wickenden.)

Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Generating bevel gears. 1,686,054; Oct. 2.

Will, John G., Canon City, Colo. Steam-boiler construction. 1,686,056; Oct. 2.

Williams, Edward M., Elyria, Ohio. Piston. 1,686,357; Oct. 2.

Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, New York, N. Y. Mechanism for uniting knitted webs. 1,685,795; Oct. 2.

Williamson, Herbert E., San Francisco, Calif. Washing machine. 1,686,480; Oct. 2.

Williamson, R., & Company. (See Ohm, Albert J. D., assignor.)

Willis, Bernard D., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,686,306; Oct. 2.

Williston, Belvin T., Somerville, Mass., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y. High-pressure gate valve. 1,686,057; Oct. 2.

Wilson, Fred D. (See Wheatley, Robert L., assignor.)

Wilson, John A., Elizabeth, assignor to Duratex Corporation, Newark, N. J. Flexible covering material and making the same. 1,685,893; Oct. 2.

Winder, Thomas M., and W. R. Murrow, Independence, Kans. Oil-well torpedo. 1,686,481; Oct. 2.

Windle, Randolph T., New York, N. Y. Trigger lock for firearms. 1,686,482; Oct. 2.

Winkler, Carl, Bern, Switzerland. Machine for casting stereotype plates. 1,686,429; Oct. 2.

Wintsch, Max T., assignor to The Lowell-Wintsch Automatic Train Control Corp., Lancaster, Pa. Automatic train-control apparatus. 1,685,894; Oct. 2.

Wise, Allen S., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Ironing machine. 1,686,058; Oct. 2.

Withro, Alexander W. (See Cannard, W. H., and Withro.)

Wohlhieter, Joseph W., Irvington, N. J., assignor to Keystone Stamping Corporation. Mopstick head. 1,685,796; Oct. 2.

Wolf Company, The. (See Stoner, Charles M., assignor.)

Wolfe, George N., assignor to Sidway-Topliff Company, Washington, Pa. Frame for a velocipede. Des. 76,511; Oct. 2.

Wolff, Aaron H., New York, N. Y. Gas heater. 1,686,358; Oct. 2.

Wood, Charles D., Walnut Park, assignor to Los Angeles Chemical Company, Los Angeles, Calif. Making calcium polysulphide. 1,685,895; Oct. 2.

Woodcock, Reginald B. (See Gouldbourn, J., and Woodcock.)

Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating unit. 1,686,059; Oct. 2.

Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)

Worthington, Everett, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J. Radiocabinet. Des. 76,512; Oct. 2.

Worthington, Everett, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J. Loud-speaker cabinet. Des. 76,513; Oct. 2.
Worthington, Everett, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J. Radiocabinet. Des. 76,514; Oct. 2.
Worthington, Everett, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J. Radiocabinet. Des. 76,515; Oct. 2.
Woudhuysen, Jacques, and G. Ory, Paris, France. Viscosimeter. 1,685,896; Oct. 2.
Wright, Charles, Evanston, Ill. Safety gate. 1,686,430; Oct. 2.
Wright, James A., Montreal, Quebec, Canada. Spring suspension. 1,686,195; Oct. 2.
Wyman, Charles O., Anoka, Minn. Differential. 1,686,431; Oct. 2.
Wysong, Maxwell W., North Plainfield, assignor of one-half to H. C. Poole, Newark, N. J. Universal tandem joint. 1,686,196; Oct. 2.
Yates, Sheldon S., Englewood, N. J., assignor to Chicle Development Company, New York, N. Y. Jelutong product and making the same. 1,685,797; Oct. 2.
Yerkes, John A., and R. H. Lemmon, Long Beach, Calif. Pump packer. 1,686,307; Oct. 2.
Yost, Clarence L., and L. C. Brown, Kanorado, Kans. Bearing for drill disks. 1,685,897; Oct. 2.
Zabriskie, Charles L., New York, N. Y., assignor, by mesne assignments, to Rogers Products Co., Inc. Grease pump. 1,686,308; Oct. 2.
Zabriskie, Charles L., New York, N. Y., assignor, by mesne assignments, to Rogers Products Co., Inc. Lubricating device. 1,686,309; Oct. 2.
Zedler, Robert J., Yonkers, N. Y. Display device. 1,686,359; Oct. 2.
Zeolite Engineering Co. (See Kenney, William J., assignor.)
Zisch, George J., Newark, N. J. Whistle. Des. 76,516; Oct. 2.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrading graphite or similar material, Apparatus for. L. S. Watres. 1,685,892; Oct. 2.
Abrasive surface and making same. C. G. Fink and A. H. Kopp. 1,686,150; Oct. 2.
Advertising device. F. C. Meyers and H. S. Oberndorfer. 1,686,390; Oct. 2.
Advertising device for cash registers. S. Russo. 1,686,345; Oct. 2.
Aeroplane. V. Cavaleri. 1,686,071; Oct. 2.
Aeroplane. G. C. St. Louis. 1,685,888; Oct. 2.
Air bag, Sectional. K. C. Benn. 1,685,900; Oct. 2.
Aircraft. C. S. Hall. 1,686,084; Oct. 2.
Aircraft. C. S. Hall. 1,686,130; Oct. 2.
Air-controlled purifier. W. S. Sewell. 1,686,107; Oct. 2.
Air or seaplane station. G. A. Uhl. 1,686,298; Oct. 2.
Air-washer structure. A. H. Colbert. 1,686,144; Oct. 2.
Alarm: *See*—
Burglar alarm.
Alarm device. J. D. Schultz. 1,686,295; Oct. 2.
Alloy. G. H. Bender. 1,685,975; Oct. 2.
Alloy, Stable-surface iron-chromium-silicon. P. A. E. Armstrong. 1,686,223; Oct. 2.
Ammeter frame. J. E. Eshbaugh. 1,685,992; Oct. 2.
Ammonia, Apparatus for the production of synthetic. G. Fauser. 1,686,371; Oct. 2.
Amusement and educational device. L. S. Rothenberg. 1,686,105; Oct. 2.
Amusement device for inducing sensations of aviation. R. M. Edwards. 1,686,315; Oct. 2.
Amusement house. N. A. Cannon. Des. 76,458; Oct. 2.
Anchor, Rail. H. G. Gillmor. 1,686,319; Oct. 2.
Animal trap. H. Bleck. 1,686,432; Oct. 2.
Annealing pot. R. S. Stewart. 1,685,966; Oct. 2.
Antenna for radio receiving sets. L. C. Poirier. 1,686,465; Oct. 2.
Arch support. M. F. Roser. 1,686,034; Oct. 2.
Assorting apparatus, Laundry. C. G. Sewell. 1,686,471; Oct. 2.
Attaching machine. E. R. Pope. 1,686,252; Oct. 2.
Atomizer. T. A. De Vilbiss. Des. 76,463–5; Oct. 2.
Automobile body and hood. D. B. Lee. Des. 76,487; Oct. 2.
Awning, Automobile. F. V. Waits. 1,686,050; Oct. 2.
Badge. L. M. Voivod. Des. 76,508; Oct. 2.
Bag: *See*—
Air bag.
Bag or envelope. G. C. Snyder. 1,685,885; Oct. 2.
Bailer and jar, Combined. G. A. Spang. 1,686,184; Oct. 2.
Bait or lure, Fish. C. H. Walter. 1,686,114; Oct. 2.
Ballot marker and setter. E. Gregory. 1,685,996; Oct. 2.
Banjo. H. F. Mietz. 1,686,416; Oct. 2.
Bank, Home savings. C. W. Cherry. 1,686,201; Oct. 2.
Bar: *See*—
Boring bar.
Bead-covering machine. E. D. Putt. 1,686,466; Oct. 2.
Beam hook, Adjustable positive-grip steel. C. E. Currie. 1,686,074; Oct. 2.
Bearing for drill disks. C. L. Yost and L. C. Brown. 1,685,897; Oct. 2.
Bearing support for drawers, Antifriction. C. W. Simpson. 1,686,472–3; Oct. 2.
Bearing, Yarn-spool. E. F. Hathaway, and W. Bixby. 1,686,489; Oct. 2.
Bed, Davenport. C. I. Lamb. 1,686,384; Oct. 2.
Bed, Vehicle. A. F. Rodekohr. 1,686,294; Oct. 2.
Belt clamp. E. Vollrath. 1,686,300; Oct. 2.
Bicycle repair plate. E. F. Pawsat. 1,685,882; Oct. 2.
Binder. F. Berner. 1,685,901; Oct. 2.
Binder, Flexible-post. J. L. McMillan and P. O. Unger. 1,686,219; Oct. 2.
Binder, Loose-leaf. A. Rubin. 1,685,957; Oct. 2.
Binders, Attachment for corn. H. F. Lyman. 1,686,284; Oct. 2.
Blade construction for cloth shears, Ledger-. C. G. Richardson. 1,686,499; Oct. 2.
Block: *See*—
Building block. Friction block.
Board: *See*—
Type-composing board.
Board for truck bodies, Division. M. E. Boustead. 1,686,433; Oct. 2.
Boat, Aerially-propelled speed. H. L. Brownback. 1,686,264; Oct. 2.
Boat, Inflatable. J. F. Boyle. 1,686,366; Oct. 2.
Boats, Drive for paddle-wheel. B. H. Kersting. 1,686,013; Oct. 2.
Boiler: *See*—
Economizer boiler.
Boiler. W. W. Smith. 1,685,962; Oct. 2.
Boiler construction, Steam-. J. G. Will. 1,686,056; Oct. 2.
Boilers, Preheater attachment for. L. O. Garraway. 1,686,445; Oct. 2.
Boilers, Triple preheater for. L. O. Garraway. 1,686,444; Oct. 2.
Boots and shoes, Making. W. Saklad. 1,685,827; Oct. 2.
Boring bar. A. C. Wenak. 1,686,428; Oct. 2.
Bottle cap. H. Spengler. 1,685,887; Oct. 2.
Bottle cap. A. Westlake. 1,686,356; Oct. 2.
Bottle-handling machine. G. A. Fullips. 1,686,129; Oct. 2.
Bottle protector and closure. F. S. Julius. 1,686,238; Oct. 2.
Box: *See*—
Mailing box. Self-locking box.
Box for perfume, powder, or the like. A. Lavault. Des. 76,486; Oct. 2.
Bracelet chain or similar article. N. D. Whalen. Des. 76,510; Oct. 2.
Bracket: *See*—
Bumper bracket.
Braid, Trimming. P. and N. Hershkowitz. Des. 76,479; Oct. 2.
Brake: *See*—
Clutch brake. Fluid-pressure brake.
Electromagnetic brake.
Brake device, Fluid-pressure. T. H. Thomas and C. A. Nelson. 1,685,890; Oct. 2.
Brake drum. R. S. Sanford. 1,686,346; Oct. 2.
Brake for talking machines, Automatic. H. L. T. Buckle. 1,685,872; Oct. 2.
Brake-operating means. G. J. Thomas. 1,686,111; Oct. 2.
Brake-testing device, Automobile. G. Diderrich. 1,686,229; Oct. 2.
Brine tank. T. C. Whitehead. 1,685,794; Oct. 2.
Brooder heater. G. E. Lear. 1,685,879; Oct. 2.
Brush and soap outfit, Shaving. H. A. Whiteside. 1,686,055; Oct. 2.
Brush back. T. A. De Vilbiss. Des. 76,460–2; Oct. 2.
Bucket, Lever-arm. P. T. Robin and W. M. Venable. 1,686,176; Oct. 2.
Buckle, Belt. R. F. Eichner. Des. 76,466; Oct. 2.
Buckle, Belt. H. C. Valsey. Des. 76,506; Oct. 2.
Buffer for automobiles. Y. Miyaoka. 1,686,164; Oct. 2.
Building block. C. A. Dwyer and W. A. Wheeler. 1,686,270; Oct. 2.
Building block or tile construction. H. D. Foster. 1,686,373; Oct. 2.
Building front. F. R. Merrill. Des. 76,491; Oct. 2.
Building, Ventilated. P. Jarnowski. 1,686,453; Oct. 2.
Bumper bracket. A. J. McCook. 1,686,287; Oct. 2.
Burglar-alarm. T. S. McClintock. 1,686,457; Oct. 2.
Burner: *See*—
Liquid-fuel burner.
Burner. W. J. Sullivan. 1,685,967; Oct. 2.
Cabinet Dispensing. M. M. Marcuse. Re17,092; Oct. 2.
Cabinet, Dispensing. H. Parker. 1,685,861–2; Oct. 2.
Cabinet, Loud-speaker. E. Worthington. Des. 76,513; Oct. 2.
Cabinet, Vending-machine. L. C. Manning. 1,686,091; Oct. 2.
Cable grip. H. E. Page. 1,686,250; Oct. 2.
Cable, Slitting device. G. T. Stott. 1,686,044; Oct. 2.
Cage and the construction thereof, Bird. B. Markow. 1,686,242; Oct. 2.
Cage, Parrot. L. J. Leon. 1,685,922; Oct. 2.
Cake. A. C. Gorton. Des. 76,474; Oct. 2.
Calcium polysulphide, Making. C. D. Wood. 1,685,895; Oct. 2.
Cameras, Focusing device for. F. H. Owens. 1,686,463; Oct. 2.
Cameras, Shutter-operating attachment for. A. De Land. 1,685,774; Oct. 2.
Cap, Knitted. I. Schlesinger. 1,686,258; Oct. 2.
Car cleaner, Interior tank-. R. E. Messler and F. A. Ivory. 1,686,335; Oct. 2.
Car, Multiunit tank. M. Mauran. 1,685,926; Oct. 2.
Car, Railway. J. T. Warren. 1,685,792; Oct. 2.
Car-transfer apparatus. G. M. Johnson and K. H. Sundvik. 1,686,382; Oct. 2.
Carbon, Apparatus for the activation or revivification of. S. A. Okell and L. Winkenden. 1,686,100; Oct. 2.
Carburetor-choker control. R. G. Russell. 1,686,421; Oct. 2.
Carburetor for internal-combustion engines. C. Brown. 1,686,123; Oct. 2.

Carpets, Manufacture of. V. C. E. Le Gloahec. 1,686,331; Oct. 2.
Carrier: *See*—
Luggage carrier. Tire carrier.
Carton for playing cards. F. C. Armstrong. 1,685,798; Oct. 2.
Case: *See*—
Vanity case.
Case shift mechanism. O. A. Hokanson. 1,686,325; Oct. 2.
Causticizing unit. W. D. Mount. 1,685,929; Oct. 2.
Chamber for hydrogen-cooled machines, Inert-gas protective. F. D. Newbury. 1,686,027; Oct. 2.
Chemical material and its production, Impervious. W. F. Bleecker. 1,686,197; Oct. 2.
Circuit breaker. A. H. Bakken. 1,685,934; Oct. 2.
Circuit interrupter, High-speed. C. L. Fortescue. 1,685,940; Oct. 2.
Circuit-interrupter system. L. J. Hibbard. 1,685,950; Oct. 2.
Circuits, Vacuum-tube. S. Loewe. 1,686,018; Oct. 2.
Clamp: *See*—
Belt clamp. Rail clamp.
Press-blanket clamp.
Clamping device. W. K. Andrew. 1,685,899; Oct. 2.
Cleaner: *See*—
Car cleaner. Flue cleaner.
Cotton cleaner. Vacuum cleaner.
Cleaner for automobile engines, Oil. J. F. Wells. 1,686,304; Oct. 2.
Cleaning machine. C. F. Gregg. 1,685,812; Oct. 2.
Clip: *See*—
Pull-cord clip. Test clip.
Clip for beading construction. R. Kauffman. 1,686,278; Oct. 2.
Clocks, Alarm attachment for. G. J. Dietrich. 1,686,408; Oct. 2.
Closet ventilator, Water-. W. M. Watkins and G. C. Finley. 1,685,891; Oct. 2.
Clutch. D. C. Conkling. 1,686,226; Oct. 2.
Clutch brake, Adjustable. H. W. Sweet. 1,686,352; Oct. 2.
Clutch, Overrunning spring. A. Lieber. 1,686,455; Oct. 2.
Clutch plate. H. D. Church. 1,685,983; Oct. 2.
Coal meter. J. M. Spitzglass. 1,686,351; Oct. 2.
Coating candles, cakes, etc., Apparatus for. G. W. Rauschenberger. 1,686,174; Oct. 2.
Coating machine. W. H. Waldron and L. B. Case. 1,686,426; Oct. 2.
Coloring yarn on bobbins. J. S. Johnston. Re17,096; Oct. 2.
Composition of matter. D. C. Bruce. 1,685,981; Oct. 2.
Compressor, Rotary. G. I. Stastny. 1,686,505; Oct. 2.
Compressors, Control apparatus for. L. F. Hoffman. 1,685,781; Oct. 2.
Concentrating oxidized ores and minerals. F. A. Bird. 1,686,064; Oct. 2.
Concentrating table. E. Deister. 1,685,986; Oct. 2.
Concrete-reenforcing member. F. N. Speller. 1,685,886; Oct. 2.
Condenser. J. Karmazin. 1,685,918; Oct. 2.
Condenser. G. Merle, sr. 1,686,333–4; Oct. 2.
Condenser, Surface. A. Ginabat. Re17,094; Oct. 2.
Condenser, Variable electric. G. W. Heath. 1,686,378; Oct. 2.
Connection, Automatic arcless plug. O. Scheuermann. 1,686,347; Oct. 2.
Console table. E. G. Blumenfeld. Des. 76,453; Oct. 2.
Container and dispenser, Perfume. E. S. Tipton. 1,686,188; Oct. 2.
Container, Knockdown. F. J. Adler. 1,686,222; Oct. 2.
Container, Metal shipping. J. J. Cain. 1,685,905; Oct. 2.
Container, Toothbrush. H. C. Frayer. 1,685,876; Oct. 2.
Containers or capsules, Manufacture of. R. H. Campbell. 1,686,405; Oct. 2.
Control apparatus. L. G. Riley. 1,686,033; Oct. 2.
Control apparatus, Automatic train-. M. T. Wintsch. 1,685,894; Oct. 2.
Control device, Selective. L. L. Ladd. 1,685,921; Oct. 2.
Control device, Temperature-actuated electric. I. E. McCabe. 1,686,286; Oct. 2.
Control system. J. V. Dobson and M. F. Jones. 1,685,943; Oct. 2.
Control system. A. B. Field. 1,685,948; Oct. 2.
Control system. K. A. Simmon. 1,686,040; Oct. 2.
Controller governor. V. Schleyer. 1,685,868; Oct. 2.
Conveyer, Rope. R. B. Pitt. 1,686,030; Oct. 2.
Cooking apparatus. S. Sauvage. 1,685,829; Oct. 2.
Cooling-water distribution. C. R. Short. 1,686,039; Oct. 2.
Cooling-water distribution. C. R. Short. 1,686,030; Oct. 2.
Copyholder for typewriting machines. J. A. B. Smith. 1,686,350; Oct. 2.
Cord sheet material, Apparatus for forming. J. W. Clark. 1,686,436; Oct. 2.
Corner, Binding. W. B. and H. M. Ballou and L. S. Wall. 1,686,483; Oct. 2.
Cotton cleaner. R. E. Lee. 1,686,414; Oct. 2.
Coupling: *See*—
Electrical coupling. Universal coupling.
Pipe coupling.
Coupling for fiber pipes. H. Parker. 1,686,498; Oct. 2.
Cover for freezer cans, Removable sanitary. E. Eberhart. 1,686,314; Oct. 2.
Covering material and making the same, Flexible. J. A. Wilson. 1,685,893; Oct. 2.
Crank-case vent. C. C. Farmer. 1,685,841; Oct. 2.
Cuff, Cotton-picker's. W. C. French. 1,685,808; Oct. 2.
Cuff link. C. W. Heasley. 1,686,235; Oct. 2.
Cultivator. H. W. Boiens. 1,685,903; Oct. 2.
Cultivator attachment. B. L. Fowler and J. J. Smith. 1,685,844; Oct. 2.
Cup: *See*—
Grease cup.
Current-controlling device. W. R. Ballard. 1,685,801; Oct. 2.
Current-rectifying device. W. O. Snelling. 1,686,183; Oct. 2.
Curtain rod. C. E. Blakely. 1,686,141; Oct. 2.
Cut-out, Thermal. M. J. Sandin. 1,685,958; Oct. 2.
Cutter and stripper, Wire. A. Bollerman. 1,685,977; Oct. 2.
Cycloplane. M. H. Ford. 1,686,080; Oct. 2.
Dehydrating device. F. E. Whorff. 1,686,500; Oct. 2.
Delivery mechanism. N. C. Drake. 1,685,945; Oct. 2.
Detecting accumulations of materials in coal washers and ore concentrators, Method and apparatus for. T. M. Chance. 1,686,435; Oct. 2.
Detector: *See*—
Trouble detector.
Die: *See*—
Dressing die.
Differential. C. O. Wyman. 1,686,431; Oct. 2.
Dinitrate and preparing same, Diethylene glycol. W. H. Rinkenbach. 1,686,344; Oct. 2.
Direction finder. A. Leib. 1,685,821; Oct. 2.
Discharge switch, Field. J. M. Brown. 1,685,936; Oct. 2.
Dishwashing machine. A. G. Kohler. 1,686,456; Oct. 2.
Display device. R. J. Zedler. 1,686,359; Oct. 2.
Display stand, Sheet-metal. H. A. Fehn. 1,685,807; Oct. 2.
Distributing powdered material, Apparatus for. V. Royle. 1,686,256; Oct. 2.
Distributor for slender articles of elongated shape. G. Bobergel. 1,686,255; Oct. 2.
Dolly. E. Karfiol. Des. 76,484; Oct. 2.
Door. J. A. Pietsch. Des. 76,494; Oct. 2.
Door catch. W. Norman. 1,686,417; Oct. 2.
Doorframe. A. Entenman. 1,685,806; Oct. 2.
Door mechanism, Car-. B. W. Kadel. 1,686,239; Oct. 2.
Draft-control system. W. P. Chandler, jr. 1,686,265; Oct. 2.
Drawing mechanism for spinning fibrous materials. U. Dittmar. 1,685,838; Oct. 2.
Dressing die. F. H. Leidecker. 1,686,454; Oct. 2.
Drier: *See*—
Hair drier.
Drier and the combination thereof with drying oils. H. E. Buc. 1,686,484–6; Oct. 2.
Driver chuck. H. A. Lacerda. 1,686,412; Oct. 2.
Driving mechanism for implements, Automobile. C. A. Walters. 1,686,193; Oct. 2.
Duster, Mule back. E. J. Feeny. 1,686,317; Oct. 2.
Dyeing and printing and product obtained therein. M. Battegay. 1,686,224; Oct. 2.
Dyestuffs, Naphthophenazine. W. Neelmeier and T. Nocken. 1,686,026; Oct. 2.
Economizer boiler. J. E. Bell. 1,685,898; Oct. 2.
Electric fixture. G. Arras. 1,686,362; Oct. 2.
Electric furnace. C. B. Foley. 1,685,914; Oct. 2.
Electric furnace. A. D. Keene. 1,686,009–10; Oct. 2.
Electric-impulse generator. R. Kauch and C. L. Paulus. 1,686,158; Oct. 2.
Electric machine, Dynamo-. R. Townend and J. A. Kuyser. 1,685,970; Oct. 2.
Electric motor. F. F. Hillix. 1,686,324; Oct. 2.
Electric switch. R. O. W. Lundin. 1,686,494; Oct. 2.
Electric switch. A. H. Nero. 1,685,858; Oct. 2.
Electrical connection. K. Hunciker. 1,686,276; Oct. 2.
Electrical coupling. W. O. Kennington. 1,686,011; Oct. 2.
Electrode, Rectifier. E. W. Engle. 1,686,316; Oct. 2.
Electrode, Self-baking. C. W. Söderberg. 1,686,474; Oct. 2.
Electrodes, Distance-handling of. M. Walther. 1,686,302; Oct. 2.
Electromagnetic brake. G. A. Halfverson. 1,685,997; Oct. 2.
Electromagnetic brake. C. Jablow. 1,686,006; Oct. 2.
Elevating water, Device for. P. A. Cirou. 1,685,907; Oct. 2.
Engine: *See*—
Internal-combustion engine. Steam engine.
Engines, Controlling device for pulp-refining. A. J. Loman. 1,686,217; Oct. 2.
Engines, Humidifying device for internal-combustion. D. Schwertner. 1,686,470; Oct. 2.
Escutcheon. R. E. Bletcher and E. H. Bucknell. Des. 76,452; Oct. 2.
Exercising device. J. M. Thomson. 1,686,423; Oct. 2.
Expelling and clarifying process and apparatus, Continuous. F. W. Manning. 1,686,096; Oct. 2.
Expelling and clarifying process, Continuous. F. W. Manning. 1,686,095; Oct. 2.
Explosions, Preventing. H. C. P. Weber. 1,686,051; Oct. 2.

Explosive and producing the same, Cyano-nitrate. F. H. Bergeim. 1,685,771; Oct. 2.
Fabric: *See*—
Knitted fabric. Wire fabric.
Fabrication of metallic thorium. W. B. Gero. 1,685,915; Oct. 2.
Fastener. H. Rosenberg. 1,686,468; Oct. 2.
Fastening device. J. M. Thomson and P. Hardy. 1,686,244; Oct. 2.
Fastening device, Chain-. L. Hansen. 1,686,447; Oct. 2.
Feed-control mechanism, Glass-. S. G. Stuckey. 1,686,109; Oct. 2.
Feed rollers. A. D. Evans and J. K. Lamore. 1,685,873; Oct. 2.
Feed system, Fuel-. C. E. Shiffer. 1,686,180; Oct. 2.
Feeding and cutting paper match splints. L. Greenbaum, E. Van Hoofstadt, and C. Gustavson. 1,686,232; Oct. 2.
Feeding and measuring machine, Dry. W. Evans. 1,686,077; Oct. 2.
Feeding apparatus, Sheet-. J. W. Baker. 1,685,799; Oct. 2.
Feeding coal, Method and apparatus for. H. H. Hamilton. 1,686,131; Oct. 2.
Feeding device for internal-combustion engines, Vacuum fuel-. T. Veitch. 1,686,299; Oct. 2.
Fender-straightening device. M. D. Ran. 1,686,442; Oct. 2.
Film and magazine therefor, Photographic. F. H. Owens. 1,686,462; Oct. 2.
Film control, Roll-. S. M. Hershberg. 1,686,211; Oct. 2.
Film package. C. Bornmann. 1,685,802; Oct. 2.
Filtering solutions used in the manufacture of artificial silk and the like, Apparatus for. W. P. Dreaper. 1,685,775; Oct. 2.
Filtration, Process of and apparatus for continuous countercurrent. F. W. Manning. 1,686,094; Oct. 2.
Filtration, Process of and apparatus for continuous pressure. 1,686,093; Oct. 2.
Finger ring. J. W. Krisch. Des. 76,485; Oct. 2.
Firearm. C. C. Loomis. 1,686,332; Oct. 2.
Fixture, Store. J. P. Moore. 1,686,291; Oct. 2.
Flare, Parachute. G. M. Ball. 1,686,117; Oct. 2.
Flooring plate for shops and like uses, Metallic. L. Saives. 1,686,106; Oct. 2.
Flowing device, Stage-lift. A. Boynton. 1,686,262; Oct. 2.
Flue cleaner, Furnace-. T. Olinger. 1,686,249; Oct. 2.
Fluid-pressure brake. C. C. Farmer. 1,685,842; Oct. 2.
Fluid-pressure brake. J. C. McCune. 1,685,855; Oct. 2.
Fluid separator. G. D. Bradshaw. 1,686,067; Oct. 2.
Folding chair. W. G. Grossman. Des. 76,477; Oct. 2.
Footwear retainer. D. Y. Read. 1,686,175; Oct. 2.
Forging apparatus. C. R. Jernberg. 1,685,849; Oct. 2.
Fountain: *See*—
Water fountain.
Frame: *See*—
Ammeter frame. Locomotive frame.
Heddle frame.
Frame for a velocipede. G. N. Wolfe. Des. 76,511; Oct. 2.
Frame for sheet material, Stretching. W. J. Carter, jr. 1,686,368; Oct. 2.
Frame structure, Side-. C. B. Harbison. 1,686,085; Oct. 2.
Frequency regulator. B. H. Smith. 1,685,961; Oct 2.
Friction block. J. S. Thompson. 1,686,189–91; Oct. 2.
Fuel burner, Liquid-. C. B. Buerger. 1,685,836; Oct. 2.
Fuel mixing and supercharging device. P. J. Laronde. 1,686,413; Oct. 2.
Fueling ships at sea, Method and apparatus for. T. S. Miller. 1,685,927; Oct. 2.
Furnace: *See*—
Electric furnace. Rotary furnace.
Heating furnace.
Furnace, efficiency meter. J. M. Spitzglass. 1,686,186; Oct. 2.
Furnace regulation. C. H. Smoot. 1,685,788; Oct. 2.
Furnace-roof construction. F. H. Loftus. 1,686,386; Oct. 2.
Furnaces, Roof and wall construction for open-hearth. F. H. Loftus. 1,686,387; Oct. 2.
Furniture construction. E. E. Ash. 1,686,116; Oct. 2.
Game. S. L. Hoexter. 1,686,237; Oct. 2.
Garment press. J. C. Ledbetter. 1,685,820; Oct. 2.
Garment rack, Collapsible. J. Linck and A. Joest. 1,685,925; Oct. 2.
Gas heater. A. H. Wolff. 1,686,358; Oct. 2.
Gas mixtures, Separating. A. B. Ray. 1,685,883; Oct. 2.
Gas-radiator systems, Safety device for. E. E. Ledbetter. 1,685,819; Oct. 2.
Gaseous catalytic reactions and apparatus therefor, Conducting. R. E. Slade. 1,686,349; Oct. 2.
Gasket, Hose-coupling. A. A. Mackert. 1,685,852; Oct. 2.
Gate: *See*—
Safety gate.
Gauge: *See*—
Tire gauge.
Gauge. G. B. Gallasch. 1,686,318; Oct. 2.
Gauge. E. E. Hans and R. Henry. 1,685,916; Oct. 2.
Gearing mechanism. J. P. Madden. 1,686,020; Oct. 2.
Generating bevel gears. E. Wildhaber. 1,686,054; Oct. 2.
Generator: *See*—
Electric-impulse generator.
Generator. G. F. Schmidt. 1,686,348; Oct. 2.
Girder. S. B. Moore. 1,686,461; Oct. 2.
Goggles. E. D. Tillyer. 1,686,113; Oct. 2.
Golf club. J. J. Radel. 1,685,826; Oct. 2.
Golf club. G. von der Heyde. 1,686,323; Oct. 2.
Grading machine. L. A. Cogswell. 1,686,487; Oct. 2.
Grate. A. W. Dayton. 1,685,939; Oct. 2.
Grave cover. A. W. Thompson. 1,686,048; Oct. 2.
Grease cup. J. F. MacIndoe. 1,686,241; Oct. 2.
Grease package. J. Muller. 1,686,166; Oct. 2.
Grinding hob, Gear-. G. M. Eaton. 1,685,989; Oct. 2.
Grinding machine. R. A. Heald and W. J. Guild. 1,686,275; Oct. 2.
Grinding machine, Cylinder-. G. N. Simpson. 1,686,181; Oct. 2.
Guide, Adjustable. J. Mürner. 1,686,246; Oct. 2.
Guns, Ring sight for machine. R. Knuch and C. L. Paulus. 1,686,157; Oct. 2.
Hair-curling device. A. Cierplikowski. 1,685,773; Oct. 2.
Hair drier. W. Meyer. 1,686,024; Oct. 2.
Hammer for disintegrators and the like, Adjustable. W. M. Duncan. 1,686,128; Oct. 2.
Handle: *See*—
Hose handle.
Handles, Securing means for detachable. N. D. Olsen. 1,686,497; Oct. 2.
Handling loose material, Apparatus for. C. E. Davis. 1,686,127; Oct. 2.
Harness, Jacquard. H. Griffiths. 1,685,878; Oct. 2.
Hat, Straw. J. Friedman. 1,686,081; Oct. 2.
Head check. C. Achenbach. 1,686,060; Oct. 2.
Headlight. C. P. Hoefler. 1,686,452; Oct. 2.
Headlight, Dirigible. J. N. Armstrong. 1,686,401; Oct. 2.
Headlight, Dirigible. F. Y. McKenney. 1,686,459; Oct. 2.
Headlight structure, Automobile. J. C. Shofner. 1,685,869; Oct. 2.
Heat treatment of permanent magnets. J. E. and F. S. Gee. 1,685,877; Oct. 2.
Heater: *See*—
Brooder heater. Water heater.
Gas heater. Windshield heater.
Thermoelectric heater.
Heating apparatus, Electrical. H. N. Shaw. 1,686,108; Oct. 2.
Heating furnace, Air-. L. Burmester. 1,686,070; Oct. 2.
Heating unit, Electric. J. C. Woodson. 1,686,059; Oct. 2.
Heddle frame. H. D. Woodson. 1,686,073; Oct. 2.
Heel for boots and shoes. C. Roberts. 1,686,397; Oct. 2.
Heel for boots and shoes, Detachable. H. Asher. 1,685,871; Oct. 2.
Hoist, Chain. S. H. Norton. 1,686,496; Oct. 2.
Holder and mirror, Combination toilet-paper. S. Beggs. Des. 76,451; Oct. 2.
Holder, Clothes-hanger. A. L. Chubb. 1,686,125; Oct. 2.
Holder, Combined toothpick and dental floss. E. T. Lutz. Des. 76,490; Oct. 2.
Holder, Eyeglass. J. S. Herzon. 1,686,002; Oct. 2.
Holder, Filling-tab. L. Kingsley. 1,686,212; Oct. 2.
Holder, Paper. A. I. McColl. 1,686,458; Oct. 2.
Holder, Tire. A. C. Busby. 1,686,367 Oct. 2.
Holder, Wrist-pin-bearing. W. H. Fenneman. 1,686,079; Oct. 2.
Holding half bearings in position for machining, Apparatus for. L. C. Blomstrom. 1,686,198; Oct. 2.
Hook: *See*—
Beam hook.
Hook and eye. L. Gutekunst. 1,685,777; Oct. 2.
Hose handle. W. Anderson. 1,686,115; Oct. 2.
Hydrocarbons, Obtaining lighter products from. F. A. Howard. 1,686,490; Oct. 2.
Index tabs, Cutting and wrapping. T. E. Heeter. 1,686,132; Oct. 2.
Indicating device. W. M. Dann. 1,685,938; Oct. 2.
Indicator: *See*—
Telegraph indicator.
Inductor for magneto-electric machines. M. A. Pattay and E. Jaquemot. 1,686,343; Oct. 2.
Insect-gathering machine. J. P. Owens. 1,686,394; Oct. 2.
Instrument-board assembly. F. N. Nutt. 1,686,169; Oct. 2.
Instrument structure. P. MacGahan. 1,685,951; Oct. 2.
Insulated contact member. R. V. Phillips. 1,686,251; Oct. 2.
Insulated flexible conductor and producing same. F. Meiwald. 1,686,098; Oct. 2.
Insulating rack. W. D. Kyle. 1,686,216; Oct. 2.
Insulator pins, Manufacturing. A. O. Austin. 1,685,833–4; Oct. 2.
Internal-combustion engine. O. Hetlesater. 1,686,236; Oct. 2.
Iron: *See*—
Soldering iron.
Iron, Making synthetic pig. E. Edwin. 1,686,075; Oct. 2.
Ironing machine. A. S. Wise. 1,686,058; Oct. 2.
Ironing machines, Thermostatic control for. H. D. Else. 1,685,947; Oct. 2.
Jelutong product and making the same. S. S. Yates. 1,685,797; Oct. 2.
Joint: *See*—
Tandem joint. Universal joint.
Journal lubricator. J. R. George and E. J. Quinn. 1,686,271; Oct. 2.
Kiln, furnace, and the like, Tunnel. C. F. Geiger. 1,686,083; Oct. 2.
Kit or container, Toilet. W. H. Cannard and A. W. Witbro. 1,686,200; Oct. 2.
Knitted fabric. F. L. Porte. 1,686,172; Oct. 2.

Knitted webs, Mechanism for uniting. L. N. D. Williams. 1,685,795; Oct. 2.
Knitting machine, Circular-. A. E. Page. 1,685,860; Oct. 2.
Knobs and dials to instrument shafts, Securing. H. J. Kasch. Re17,091; Oct. 2.
Laboratory tabue. O. G. Harne. 1,686,234; Oct. 2.
Lace edging, Embroidered. H. Schwarber. Des. 76,500; Oct. 2.
Lace medallion, Embroidered. H. Schwarber. Des. 76,501; Oct. 2.
Lamp. J. A. Greathouse. Des. 76,476; Oct. 2.
Lamp. F. Schmidtke. 1,686,503; Oct. 2.
Lamp and loud speaker. H. O. Baker. 1,686,402; Oct. 2.
Lamp-focus-securing device. I. L. Duquette, W. J. Plasse and C. A. Merrill. 1,685,805; Oct. 2.
Larynx, Artificial. E. I. McKesson. 1,685,824; Oct. 2.
Last. W. A. Krentler. 1,685,783; Oct. 2.
Latch and signal, Mail-box. H. C. Feist. 1,685,874; Oct. 2.
Latch, Double-acting door. C. J. Hagstrom. 1,685,998; Oct. 2.
Lathes, Facing attachment for. F. B. Cockburn. 1,686,438; Oct. 2.
Leaf turner. G. Schoenfeld. 1,686,422; Oct. 2.
Legging. C. A. Erickson. 1,685,991; Oct. 2.
Lens-blank-holding means. W. Bausch and J. R. Powell. 1,686,364; Oct. 2.
Lever twenty-four-speed mechanism, Multiple-. D. C. Klausmeyer. 1,686,240; Oct. 2.
Lifter: *See*—
Valve lifter.
Light for motor cars, Combined signal and parking. S. R. Leeson. 1,686,330; Oct. 2.
Light support, Rear-curtain-. A. A. Cripps. 1,686,126; Oct. 2.
Lighting effects, Apparatus for obtaining kaleidoscopic. A. Dunhill. 1,685,912; Oct. 2.
Lighting fixture. A. J. D. Ohm. Des. 76,493; Oct. 2.
Lighting standard. R. Waggoner. Des. 76,509; Oct. 2.
Lime spreader. C. D. Bonsman. 1,686,143; Oct. 2.
Liquid-dispensing device. N. H. Loposer. 1,685,880; Oct. 2.
Liquid-fuel burner. C. B. Buerger. 1,685,804; Oct. 2.
Liquid-fuel burner. D. Koudritsky. 1,686,213; Oct. 2.
Liquids and solids, Process of and apparatus for the continuous countercurrent treatment of. F. W. Manning. 1,686,092; Oct. 2.
Liquor, Treatment of sulphite-wood-pulp. W. E. B. Baker. 1,685,800; Oct. 2.
Loader, Material. R. L. Wheatley. 1,686,053; Oct. 2.
Lock. R. B. Buzzaird. 1,685,982; Oct. 2.
Lock. I. A. Caplan. 1,686,406; Oct. 2.
Lock and signal-switch actuator, Combined sash. T. Randon and H. Phoenix. 1,686,032; Oct. 2.
Lock for firearms, Trigger. R. T. Windle. 1,686,482; Oct. 2.
Lock means. J. H. Muth. 1,685,785; Oct. 2.
Lock-operating device, Magnetic. C. W. Cherry. 1,686,202; Oct. 2.
Locking device, Drawer-. G. H. Wheary and M. Kurten. 1,686,194; Oct. 2.
Locking device for bulb supports of direction indicators. A. R. P. Johnson. 1,686,008; Oct. 2.
Locking device, Tire-. M. C. Lee. 1,685,924; Oct. 2.
Locking device, Transmission-. P. L. Tenney. 1,686,047; Oct. 2.
Locomotive frame. J. D. Rauch. 1,686,104; Oct. 2.
Locomotive terminal. L. G. Plant. 1,686,103; Oct. 2.
Loom reed. O. P. Hargrove and M. Fitzpatrick. 1,686,448; Oct. 2.
Loud speaker. P. H. Brace. 1,685,979; Oct. 2.
Loud speaker. W. H. Vidor. 1,686,192; Oct. 2.
Lubricating device. C. T. Pflueger. 1,685,865; Oct. 2.
Lubricating device. C. L. Zabriskie. 1,686,309; Oct. 2.
Lubricating system. F. C. Blanchard. 1,685,976; Oct. 2.
Lubrication of brake shafts, H. Morgan. 1,686,025; Oct. 2.
Lubricator: *See*—
Journal lubricator.
Luggage carrier. W. Henry. 1,686,450; Oct. 2.
Machine for casting stereotype- plates. C. Winkler. 1,686,429; Oct. 2.
Machine for erecting walls of brick and the like. S. Kaye. 1,686,279; Oct. 2.
Machine for placing springs in fabric pockets. J. L. MacInerney. 1,685,851; Oct. 2.
Machine for separating seeds. D. Franks. 1,686,374; Oct. 2.
Machine for transferring and chopping animal carcasses. B. G. Brennan. 1,686,121; Oct. 2.
Machines, Blower attachment for. J. M. Cooke. 1,686,430; Oct. 2.
Magazine, Film. B. V. Covert. 1,686,204; Oct. 2.
Mailing box. R. L. Harden. 1,686,449; Oct. 2.
Mailing wrapper for photographs. H. L. Greve. 1,685,813; Oct. 2.
Manifold, Slush-pump. E. M. Beebe. 1,686,310; Oct. 2.
Marker, Crosswalk. L. F. N. Baldwin. 1,686,363; Oct. 2.
Mat. W. M. Wattie. 1,686,303; Oct. 2.
Maximum-demand device. A. Roth. 1,686,035; Oct. 2.
Measuring instrument. E. H. Bristol. 1,686,263; Oct. 2.
Measuring instrument, Electrical. H. H. Lyon. 1,686,019; Oct. 2.
Meat-cutting table. B. G. Brennan. 1,686,122; Oct. 2.
Medical applicator. C. E. Frey. 1,686,151; Oct. 2.
Metal glutins and product thereof, Producing. K. Küttel. 1,686,281; Oct. 2.
Metal-scraping apparatus. W. J. Stoop. 1,686,398; Oct. 2.
Metal structure for railway cars. A. E. Small. Re17,095; Oct. 2.
Metals from ammoniacal solutions, Precipitating heavy. C. Müller, L. Schlecht, and W. Schubardt. 1,686,391; Oct. 2.
Metals or metal alloys low in carbon directly out of ore or the like, Producing. H. G. Flodin and E. G. T. Gustafsson. 1,686,206; Oct. 2.
Metallic composition and making the same. W. H. Judy. 1,686,277; Oct. 2.
Meter: *See*—
Coal meter. Motor meter.
Furnace-efficiency meter. Power meter.
Microphone. H. Lichte. 1,686,385; Oct. 2.
Mill for the production of finely-divided powder, Whirling. E. Podszus. 1,685,956; Oct. 2.
Mill screw-down mechanism, Rolling-. L. C. Steele. 1,686,042; Oct. 2.
Mine-car dump, Rotary. J. S. Repko. 1,686,420; Oct. 2.
Minerals and briquettes therefor, Reduction of sulphate. J. E. Booge and J. P. Koller. 1,685,772; Oct. 2.
Mining and loading apparatus. E. C. Morgan. 1,686,337; Oct. 2.
Mining machine. W. T. McCullough. 1,686,140; Oct. 2.
Mining machine. C. A. Pratt. 1,686,173; Oct. 2.
Mixer. J. H. Hurdle. 1,686,135; Oct. 2.
Mixer for margarine and the like. G. M. Keller. 1,686,280; Oct. 2.
Mixing device. W. Evans. 1,686,078; Oct. 2.
Mixing device, Fluid-. H. D. Bowman. 1,686,199; Oct. 2.
Mixing solids with liquids, Method and apparatus for. W. Evans. 1,686,076; Oct. 2.
Mold for making roofing tiles. J. L. West. 1,686,305; Oct. 2.
Molded article, Composite. L. Bonsleur. 1,686,142; Oct. 2.
Mopstick head. J. W. Wohlhieter. 1,685,796; Oct. 2.
Motion-producing mechanism, Vibrating. E. Deister. 1,685,941; Oct. 2.
Motor: *See*—
Electric motor. Outboard motor.
Motor control. R. T. Pierce. 1,686,029; Oct. 2.
Motor meter. W. R. Healewood. 1,685,846; Oct. 2.
Necktie retainer. J. Rosman. 1,686,469; Oct. 2.
Nitrogenous bases from hydrocarbon materials, Obtaining. H. K. Ibrig. 1,686,136; Oct. 2.
Oil, Preparation of fuel. W. S. Hughes and J. Harrop. 1,686,491; Oct. 2.
Operating connection. W. J. Andres. 1,686,360; Oct. 2.
Ore-grading machine. V. Sanchez. 1,685,828; Oct. 2.
Otoscope. J. G. Smith. 1,686,041; Oct. 2.
Outboard motor. H. J. Hillborn. 1,685,814; Oct. 2.
Overalls, Union. C. S. and M. N. Kohler. 1,686,411; Oct. 2.
Package, Merchandise. J. F. Wallace. 1,686,354; Oct. 2.
Packer, Automatic sack. C. M. Stoner. 1,686,477; Oct. 2.
Packer, Pump. J. A. Yerkes and R. H. Lemmon. 1,686,307; Oct. 2.
Packing and making same. B. L. Benbow. 1,686,063; Oct. 2.
Packing machine, Confectionery-. J. W. Greer. 1,686,375; Oct. 2.
Packing, Piston. J. W. MacClatchie. 1,686,090; Oct. 2.
Pad: *See*—
Shoulder pad.
Pan or the like. A. Vericel. Des. 76,507; Oct. 2.
Paper and paper made thereby, Finishing and coloring. T. Hans. 1,685,917; Oct. 2.
Paper-crinkling machine. W. A. Lorenz. 1,686,388; Oct. 2.
Paper-making machinery. C. L. Henderson. 1,686,322; Oct. 2.
Paper transportation. B. L. Hammond. 1,685,845; Oct. 2.
Parking device, Vehicle. J. H. Moffat. 1,686,460; Oct. 2.
Pasteurization of milk. E. P. Davis, J. C. Ross, and M. E. Smith. 1,686,227; Oct. 2.
Pastry, Article of. J. Notkin. Des. 76,492; Oct. 2.
Pattern for bathtubs. H. E. Henricks. 1,686,001; Oct. 2.
Piano case and writing desk, Combined. W. E. Janssen. Des. 76,483; Oct. 2.
Piano-key mounting. W. A. Goble. 1,686,210; Oct. 2.
Piano, Player. C. Gulbransen. 1,686,153; Oct. 2.
Piezo-electrical crystals, Method of and apparatus for rendering visible oscillations of. E. Giebe and A. Scheibe. 1,685,810; Oct. 2.
Pillow, Sleep-inducing. E. F. Murphy. 1,686,247; Oct. 2.
Pipe: *See*—
Smoker's pipe.
Pipe coupling, Sheet-metal-. M. Rachlin. 1,686,254; Oct. 2.
Pipe lines, Method of and apparatus for causing oil to flow through. L. W. Southgate. 1,686,475; Oct. 2.
Piston. E. M. Williams. 1,686,357; Oct. 2.
Plate. E. M. Bottome. Des. 76,454–5; Oct. 2.
Plow attachment. F. E. Rosekelly. 1,686,177; Oct. 2.
Plug, Well. F. J. Spang. 1,686,185; Oct. 2.
Pool, Swimming. J. M. Vietti. 1,685,969; Oct. 2.
Pot: *See*—
Annealing pot.

Power meter, Electric torsion. W. W. Smith and R. W. Erickson. 1,685,964; Oct. 2.
Power plant. F. A. Trinkle. 1,685,791; Oct. 2.
Press: *See*—
Garment press.
Press-blanket clamp, Printing. J. R. Blaine. 1,686,065; Oct. 2.
Pressing apparatus. E. Davis. 1,686,312; Oct. 2.
Pressing machine. H. E. Cohen. 1,686,266; Oct. 2.
Pressing machine (tail holder), Shirt-. P. N. Braun. 1,686,311; Oct. 2.
Pressure retainer, Duplex. C. C. Farmer. 1,685,843; Oct. 2.
Priming device for internal-combustion engines. C. D. Armstrong. 1,686,361; Oct. 2.
Program-selecting arrangement. H. M. Bascom, O. M. Arnold, and R. L. Pentland. 1,685,835; Oct. 2.
Projectile, Surface. E. O. Brower. 1,686,124; Oct. 2.
Propeller. H. E. Bucklen. 1,686,069; Oct. 2.
Propeller. R. N. Kyle. 1,686,214; Oct. 2.
Propeller blade. M. C. Nixon. 1,685,881; Oct. 2.
Pull-cord clip, Window-shade. E. L. Trimble. 1,686,297; Oct. 2.
Pump for refrigerants and the like. T. E. Murray. 1,686,339–40; Oct. 2.
Pump, Grease. C. L. Zabriskie. 1,686,308; Oct. 2.
Pump head. L. L. Hazen. 1,686,154; Oct. 2.
Pump, Rotary. G. E. Goodridge. 1,686,272; Oct. 2.
Pump, Rotary. M. C. Mason. 1,686,285; Oct. 2.
Pump, Sand. W. E. Groh. 1,686,321; Oct. 2.
Pumping apparatus. L. Morgan. 1,686,220; Oct. 2.
Punching machine, Selectively-operated. F. L. Dunlap. 1,686,269; Oct. 2.
Puzzle, Baseball. A. E. Mortimer. 1,686,244; Oct. 2.
Rack: *See*—
Garment rack. Secondary rack.
Insulating rack.
Radiator. W. M. Dann. 1,685,937; Oct. 2.
Radiator. T. A. Ridder. 1,686,396; Oct. 2.
Radiator cap. E. W. Seaholm. 1,686,038; Oct. 2.
Radiator cap. G. H. Townsend. Des. 76,504; Oct. 2.
Radiator unit, Internal-combustion. F. W. Shuell and E. E. Ledbetter. 1,685,870; Oct. 2.
Radio appliance. A. B. Fishwick. 1,685,875; Oct. 2.
Radiocabinet. I. A. Lund. Des. 76,488–9; Oct. 2.
Radiocabinet. E. Worthington. Des. 76,512; Oct. 2.
Radiocabinet. E. Worthington. Des. 76,514–15; Oct. 2.
Radio receiving sets, Logging and indicating device for. R. C. Bower. 1,685,803; Oct. 2.
Radio vacuum tube. H. M. Freeman. 1,685,994; Oct. 2.
Rail clamp. A. T. Palmer. 1,686,028; Oct. 2.
Rail tie. E. Griesbaum. 1,686,320; Oct. 2.
Railroad tie. S. F. Brohman. 1,685,980; Oct. 2.
Railroad tie. R. E. L. Maxey. 1,686,097; Oct. 2.
Railroads, Cattle guard for. A. Thibert. 1,685,889; Oct. 2.
Range, Gas. M. A. Possons. Des. 76,497; Oct. 2.
Reading stand. A. M. Ellis. 1,686,443; Oct. 2.
Reamer, Rotary. A. Boynton. 1,686,403; Oct. 2.
Recoil and run-out apparatus for ordnance. A. T. Dawson and G. T. Buckham. 1,685,910; Oct. 2.
Recording and reproducing of sound waves. L. Espenschied. 1,685,913; Oct. 2.
Recording device, Oil-change-. F. A. Cook. 1,686,369; Oct. 2.
Recording instrument. E. A. Ileman. 1,686,326; Oct. 2.
Rectifying device. N. B. Cregler. 1,685,909; Oct. 2.
Rectifying device, Contact. W. O. Snelling. 1,686,260; Oct. 2.
Reduction process for producing carbon binding metal or metal alloys, Direct-. H. G. Flodin and E. G. T. Gustafsson. 1,686,207; Oct. 2.
Reel construction and length-measuring means. J. L. Burke. 1,685,904; Oct. 2.
Refining iron and steel products. C. W. Hill. 1,686,087; Oct. 2.
Refining oils, etc. W. K. Lewis. 1,686,493; Oct. 2.
Reflector. D. E. Stinson. 1,686,476; Oct. 2.
Refrigeration. B. C. von Platen and C. G. Munters. 1,686,425; Oct. 2.
Refrigerator. J. C. Christensen. 1,686,072; Oct. 2.
Refrigerator. J. A. Schnur. 1,686,179; Oct. 2.
Refrigerator. J. M. Torres y Curbelo. 1,686,205; Oct. 2.
Regulation by proportionate pressure and apparatus therefor. C. H. Smoot. 1,685,787; Oct. 2.
Regulator: *See*—
Frequency regulator. Window regulator.
Temperature regulator. Windshield regulator.
Regulator system. F. Schiller. 1,685,960; Oct. 2.
Relay, Accelerating. N. K. Andersen. 1,685,931; Oct. 2.
Relay, Electromagnetic. G. A. E. Lundell. 1,685,953; Oct. 2.
Relay for induction regulators, Primary. E. Lehr. 1,686,015; Oct. 2.
Rendering apparatus. M. V. Lovett. 1,686,017; Oct. 2.
Resistor for shunted condensers. R. E. Marbury. 1,686,022; Oct. 2.
Resistor support. J. Schnepf. 1,686,037; Oct. 2.
Resurfacing machine. W. C. Meyer. 1,685,784; Oct. 2.
Rim and fastening same, Demountable. J. H. Wagenhorst. 1,686,301; Oct. 2.
Rim-removing device. F. W. Briggs. 1,686,068; Oct. 2.
Ring sight, Adjustable. W. G. McNeill and R. Kauch. 1,686,163; Oct. 2.
Rod: *See*—
Curtain rod.
Roller: *See*—
Feed roller.
Rolling device, Barrel-. T. E. McDaniel. 1,686,495; Oct. 2.
Roofing sheet, Expansible and retractable. O. P. Greenstreet. 1,686,274; Oct. 2.
Rotary furnace. E. Amme, K. Dienst and D. J. Uhle. 1,685,972; Oct. 2.
Rotator, Polished-rod. A. Boynton. 1,686,261; Oct. 2.
Rubber to the surface of india-rubber goods, Fixing a thin layer of sponge. S. Morimoto. 1,685,954; Oct. 2.
Sack filler. R. L. Callahan. 1,686,404; Oct. 2.
Safety gate. C. Wright. 1,686,430; Oct. 2.
Sawing machine, Stone-. F. R. Patch. 1,685,863–4; Oct. 2.
Scale casing. N. Tatham. Des. 76,505; Oct. 2.
Scale casing, Weighing-. G. F. Hochriem. Des. 76,480; Oct. 2.
Scale, Coin-controlled weighing. H. O. Hem. 1,685,779; Oct. 2.
Scale, Track. A. Bousfield. 1,685,978; Oct. 2.
Scale, Weighing. H. O. Hem. 1,685,780; Oct. 2.
Scale, Weighing. E. G. Thomas. 1,685,790; Oct. 2.
Scale, Weighing. L. C. Wetzel. 1,685,793; Oct. 2.
Scarf or similar article, Table. J. Derk. Des. 76,459; Oct. 2.
Scraper. C. E. Davis. 1,686,148; Oct. 2.
Scraper-loading device. C. E. Davis. 1,686,147; Oct. 2.
Screen: *See*—
Vibrating screen.
Screen. A. Mayer. 1,685,823; Oct. 2.
Screen-setting apparatus. J. D. Adams. 1,685,971; Oct. 2.
Screening machine, Paper and pulp. E. B. Fritz. 1,685,809; Oct. 2.
Screening mechanism. E. Deister. 1,685,942; Oct. 2.
Seat: *See*—
Toilet seat. Vehicle seat.
Secondary rack. W. D. Kyle. 1,686,215; Oct. 2.
Self-locking box. H. D. Morton. 1,686,338; Oct. 2.
Separation of alumina from alum. G. S. Tilley. 1,686,112; Oct. 2.
Separator: *See*—
Fluid separator.
Separator. H. E. Boyrie. 1,686,066; Ooc. 2.
Settee frame or similar article. C. Bauer. Des. 76,449–50; Oct. 2.
Settee frame or similar article. C. T. Graham. Des. 76,475; Oct. 2.
Sewing machine, Shoe-. T. E. and M. C. McLaughlin. 1,685,854; Oct. 2.
Sewing machines, Lighting attachment for. R. F. List. 1,685,850; Oct. 2.
Shade-roller mounting. C. P. Freestate. 1,686,208; Oct. 2.
Shafts in paper-feeding machines, Device for adjustably controlling the location of roller. A. L. Foster. 1,686,488; Oct. 2.
Shears for cutting blocks or bars. A. Nöll. 1,686,392; Oct. 2.
Shield, Glare. I. R. Nathanson. 1,686,341; Oct. 2.
Shingle, Roofing. W. A. Harris. 1,685,999; Oct. 2.
Shirt. H. L. Burr. Des. 76,457; Oct. 2.
Shock absorber. M. R. Jenney. 1,686,381; Oct. 2.
Shocker, Grain. F. Jackson. 1,686,156; Oct. 2.
Shoe. G. E. Musebeck. 1,686,292; Oct. 2.
Shoe-repairing stand. T. Rendle. 1,686,467; Oct. 2.
Shoe, Work. A. L. Rohrbacher, jr. 1,686,399; Oct. 2.
Shoulder pad. R. T. Mullins. 1,685,825; Oct. 2.
Shut-off for gas burners and alarms, Electrically-operated. J. Helmberger. 1,686,389; Oct. 2.
Sign. R. S. Brenner and J. Scott. Des. 76,456; Oct. 2.
Sign, Advertising. G. De Priest. Des. 76,498; Oct. 2.
Sign, Illuminated. E. Lowinger. 1,685,822; Oct. 22.
Signs, Character-mounting stick for changeable. P. Klimowicz. 1,686,160; Oct. 2.
Signal: *See*—
Tire-protecting signal. Vehicle signal.
Traffic signal.
Signal means, Motor-vehicle. H. Curnick and E. D. Specht. 1,686,267; Oct. 2.
Signal system. A. S. Mazzur. 1,685,853; Oct. 2.
Signal system and device. G. A. Jackson. 1,685,848; Oct. 2.
Signaling apparatus, Electric. F. Favarger. 1,685,776; Oct. 2.
Signaling apparatus, Wireless. S. E. Leonard, jr. 1,685,923; Oct. 2.
Signaling device. M. B. Halliday. 1,686,233; Oct. 2.
Signaling system, Wave. H. W. Houck. 1,686,005; Oct. 2.
Skidding and loading equipment, Overhead cableway. M. H. Dickinson and J. H. Dickinson. 1,685,911; Oct. 2.
Slack puller and jack. I. B. Hart. 1,686,501; Oct. 2.
Slicing machine. W. J. Campbell. 1,685,906; Oct. 2.
Sling, Rope. C. D. Meals. 1,686,288; Oct. 2.
Smoker's pipe. J. J. Papson. 1,686,419; Oct. 2.
Snap switch, Motor. H. G. Baxter. 1,685,935; Oct. 2.
Snowplow. E. B. Meyer. 1,686,243; Oct. 2.
Socket, Electric-light. E. G. Oakley. 1,686,248; Oct. 2.
Socket, Lamp. A. Sandberg. 1,686,257; Oct. 2.
Socket, Slip-ring. F. J. Hinderliter. 1,686,134; Oct. 2.
Soldering iron, Electric. B. Kalmar and M. Kollin. 1,686,328; Oct. 2.
Spark plug. G. H. Ricke. 1,686,395; Oct. 2.

Speed mechanism, Cam-controlled twenty-four-. D. C. Klausmeyer. 1,686,383; Oct. 2.
Spokes, Making reenforced tubular. H. P. Arnt. 1,685,832; Oct. 2.
Spoon or analogous article. A. Prinz. Des. 76,499; Oct. 2.
Spray attachment for retorts. R. A. Sindall. 1,685,884; Oct. 2.
Spraying device. A. H. Hottinger. 1,686,003–4; Oct. 2.
Spring suspension. C. A. Erickson. 1,686,230; Oct. 2.
Spring suspension. J. A. Wright. 1,686,195; Oct. 2.
Spring wheel. A. B. Nibiros. 1,686,168; Oct. 2.
Sprinkler system. C. Adams, jr. 1,686,221; Oct. 2.
Stabilization of transmission lines. C. J. Fechheimer. 1,685,993; Oct. 2.
Stand: *See*—
Display stand. Shoe-repairing stand.
Reading stand. Tub stand.
Starching apparatus, Centrifugal. A. J. Dreher and F. J. Couch. 1,686,313; Oct. 2.
Starter, Synchronous motor. C. W. Drake. 1,685,044; Oct. 2.
Steam engine, Reciprocating. H. G. Mueller. 1,686,245; Oct. 2.
Steering mechanism. M. L. Fykse. 1,686,372; Oct. 2.
Steering mechanism for tractors, Detachable. J. L. Opitz. 1,686,170; Oct. 2.
Stenciled indicating means. A. R. P. Johnson. 1,685,952; Oct. 2.
Stethoscopic apparatus. H. F. Dodge and H. A. Frederick. 1,686,504; Oct. 2.
Still, Water. E. V. Oliver. 1,686,418; Oct. 2.
Stocking. L. D. Barish. Des. 76,448; Oct. 2.
Stocking. J. A. Phillips. Des. 76,495–6; Oct. 2.
Stocking, Woman's. J. C. J. Strahan. 1,686,478; Oct. 2.
Stool, Craftsman's. J. L. Perry. 1,686,464; Oct. 2.
Stretcher, Curtain. E. J. Quiggle. 1,686,253; Oct. 2.
Sucrose from mixtures containing reducing sugars, Recovering. H. W. Dahlberg. 1,686,440; Oct. 2.
Superheater for Scotch boilers. J. J. Nelis. 1,685,930; Oct. 2.
Support for polishing shoes. H. Hill. 1,686,133; Oct. 2.
Support, Resilient. F. J. Heldeman. 1,685,778; Oct. 2.
Swatter, Fly. W. H. A. Enamuel. 1,685,900; Oct. 2.
Swing, Porch and lawn. L. G. Cook. 1,686,145; Oct. 2.
Switch: *See*—
Discharge switch. Snap switch.
Electric switch.
Switch. J. B. Milano. 1,686,289; Oct. 2.
Switch-point guard. A. T. Palmer. 1,686,342; Oct. 2.
Swivel head for coil-pulling machines. L. B. Schmerber. 1,685,959; Oct. 2.
Syringe. J. and R. Cournand. 1,685,984; Oct. 2.
Table: *See*—
Concentrating table. Meat-cutting table.
Laboratory table.
Table-control mechanism. G. A. De Vlieg. 1,686,268; Oct. 2.
Tandem joint, Universal. M. W. Wysong. 1,686,196; Oct. 2.
Tank: *See*—
Brine tank.
Telecontrol of objects, System for the. J. W. G. Illauer. 1,686,327; Oct. 2.
Telegraph indicator. S. G. Nye. 1,686,293; Oct. 2.
Telephone system, Automatic. B. D. Willis. 1,686,306; Oct. 2.
Temperature regulator. H. S. Gano. 1,685,995; Oct. 2.
Test clip. H. Huntington. 1,685,847; Oct. 2.
Testing apparatus. R. B. Alexander and W. H. Rowan. 1,685,973; Oct. 2.
Testing apparatus and method of testing, Magnetic. T. Spooner. 1,685,965; Oct. 2.
Testing apparatus and using same. A. E. Becker. 1,686,365; Oct. 2.
Testing device. E. G. Thomas. 1,685,789; Oct. 2.
Textile fabric. C. F. Erhard. Des. 76,467–73; Oct. 2.
Textile fabric. A. Solomon. Des. 76,502; Oct. 2.
Theft-preventing device. D. R. Taber. 1,686,045; Oct. 2.
Therapeutic composition. S. F. Amacker. 1,686,062; Oct. 2.
Thermoelectric heater. A. Torriani. Re17,093; Oct. 2.
Thickening apparatus. H. S. Coe. 1,686,203; Oct. 2.
Tie: *See*—
Rail tie. Railroad tie.
Timer. A. W. Kaufman. 1,686,159; Oct. 2.
Tinned foods, Preventing the blackening of. K. Oshima. 1,686,393; Oct. 2.
Tire. M. C. Overman. 1,685,955; Oct. 2.
Tire-bead-reenforcing elements, Making. A. C. Hopkins. 1,686,155; Oct. 2.
Tire-building machine. P. W. Lehman. 1,686,282; Oct. 2.
Tire carrier, Automobile. E. Francis. 1,686,231; Oct. 2.
Tire gauge. R. V. Morse. 1,686,165; Oct. 2.
Tire-making machine. W. C. Stevens. 1,686,043; Oct. 2.
Tire-protecting signal. J. E. and M. A. Kennedy. 1,686,089; Oct. 2.
Tire, Vehicle. L. W. Heefner. Des. 76,478; Oct. 2.
Toilet seats, Making. W. F. Till. 1,686,049; Oct. 2.
Tool, Framing. A. B. and R. M. Dauger. 1,686,441; Oct. 2.
Tool knee structure, Machine-. E. J. Kearney. 1,685,920; Oct. 2.
Tool, Split-rim. F. L. Main. 1,686,021; Oct. 2.
Torpedo, Oil-well. T. M. Winder and W. R. Murrow. 1,686,481; Oct. 2.
Torque-equalizing system. A. D. Du Bois. 1,685,839; Oct. 2.
Toy, Figure wheel. A. A. Allinger. 1,686,061; Oct. 2.
Toy vehicle. B. B. Martin. 1,686,389; Oct. 2.
Toy vehicle, Wheeled. P. T. Wallgren. 1,686,427; Oct. 2.
Track chock for car wheels. M. Heeren. 1,686,379; Oct. 2.
Tractor and hitch contruction. C. J. Travers. 1,685,968; Oct. 2.
Traffic signal. R. C. Keogan. 1,686,329; Oct. 2.
Train control and cab signaling, Automatic. H. M. Ryder. 1,686,036; Oct. 2.
Train control, Intermittent inductive. C. S. Bushnell. 1,686,434; Oct. 2.
Train stop, Automatic. C. C. Farmer. 1,685,840; Oct. 2.
Transformer, Electrical. A. G. Ellis. 1,685,946; Oct. 2.
Translating device. E. C. Wente. 1,686,355; Oct. 2.
Transmission and tracker mechanism unit. G. P. Brand. 1,686,225; Oct. 2.
Transmission mechanism, Planetary. J. A. Gilman. 1,686,446; Oct. 2.
Transmission system, Alternating-current. M. W. Smith. 1,685,963; Oct. 2.
Trap: *See*—
Animal trap.
Trap for drains and sewers. J. Lyes. 1,686,415; Oct. 2.
Tray, Service. S. W. James. Des. 76,482; Oct. 2.
Tread, Detachable antiskid. O. Weberg. 1,686,052; Oct. 2.
Treatment of fabrics. G. H. Ellis. 1,686,149; Oct. 2.
Trimming machine, Top-lift-. J. Gouldbourn and R. B. Woodcock. 1,685,811; Oct. 2.
Trolley for electric vehicles, Bow. E. Kramer. 1,685,919; Oct. 2.
Trouble detector, Call-box. G. W. Janson. 1,686,492; Oct. 2.
Trucks for railway and like vehicles, Construction of bogie. G. H. Sheffield and J. D. Twinberrow. 1,686,182; Oct. 2.
Tub stand. F. J. Dultmeier. 1,685,988; Oct. 2.
Tube: *See*—
Radio vacuum tube. X-ray tube.
Turbine aggregate. F. Ljungstrom. 1,686,218; Oct. 2.
Type-composing board. F. H. Poeppelmeier. 1,686,031; Oct. 2.
Typesetting machines, Elevator-control attachment for. D. P. McLaughlin. 1,686,139; Oct. 2.
Typewriters, Power operating mechanism for. O. A. Hokanson. 1,685,782; Oct. 2.
Typewriting machine. H. S. Lasher. 1,686,014; Oct. 2.
Typewriting machine. J. Lindburg. 1,686,016; Oct. 2.
Universal coupling. I. C. Jennings. 1,685,815; Oct. 2.
Universal joint. E. Noel. 1,685,859; Oct. 2.
Unloader, Poultry-coop. A. Miller. 1,686,099; Oct. 2.
Unloading machine. F. W. Horstkotte. 1,686,088; Oct. 2.
Urn, Coffee. K. Levi. 1,686,283; Oct. 2.
V rest for knife edges. B. M. W. Hanson. 1,686,377; Oct. 2.
Vacuum cleaner. E. C. Killebrew. 1,686,410; Oct. 2.
Valve, Automatic water-control. J. L. Skuttle. 1,686,296; Oct. 2.
Valve, Crank-case-ventilator shut-off. C. H. Dearborn. 1,685,985; Oct. 2.
Valve device, Feed-. W. E. Dean. 1,685,837; Oct. 2.
Valve, Float. E. L. Delany. 1,685,987; Oct. 2.
Valve, Fluid-mixing. B. Rosenbaum. 1,685,867; Oct. 2.
Valve, High-pressure gate. B. T. Williston. 1,686,057; Oct. 2.
Valve, Hydraulic gate and check. W. B. Andersson. 1,685,932–3; Oct. 2.
Valve lifter. J. C. Garrott. 1,686,152; Oct. 2.
Valve, Plug. S. E. Meyers. 1,686,336; Oct. 2.
Valve, Safety and relief. F. E. Raymond. 1,685,866; Oct. 2.
Vanity case. C. N. Coryell. 1,685,908; Oct. 2.
Vanity case. C. A. Hyman. 1,686,370; Oct. 2.
Variable-load device. J. C. McCune. 1,685,856; Oct. 2.
Vehicle body, Motor-. W. E. Avril. Des. 76,447; Oct. 2.
Vehicle, Child's. J. J. and W. A. Tischler. Des. 76,503; Oct. 2.
Vehicle for receiving and transporting refuse and the like. H. Neny. 1,686,167; Oct. 2.
Vehicle, Motor and other. H. D. Gillies. 1,686,209; Oct. 2.
Vehicle seat, Adjustable. R. E. Bowen. 1,685,770; Oct. 2.
Vehicle signal, Motor-. F. L. Harris. 1,686,086; Oct. 2.
Vehicle wheel, Two-rim. F. W. Baker. 1,685,974; Oct. 2.
Vending machine. J. A. Sather. 1,686,178; Oct. 2.
Ventilating system, Crank-case. R. K. Jack. 1,686,007; Oct. 2.
Ventilation element for wall construction and the like. D. W. Barrie. 1,686,118; Oct. 2.
Ventilator: *See*—
Closet ventilator. Window ventilator.
Vibrating screen. E. Deister. 1,685,940; Oct. 2.
Vibrometer. O. E. Marvel. 1,686,138; Oct. 2.
Viscosimeter. J. Wondhuysen and G. Ory. 1,685,896; Oct. 2.
Vise and stand, Pipe. L. McCloskey. 1,686,023; Oct. 2.
Voltage-testing apparatus. J. W. Hill. 1,686,451; Oct. 2.
Wagon, Body-tipping. K. Geuer. 1,686,409; Oct. 2.
Wall. P. Liese. 1,686,161; Oct. 2.
Wall-board retainer. J. Strand. 1,686,187; Oct. 2.

Wall construction, Adobe. J. E. Deardorff. 1,686,228; Oct. 2.
Washing machine. A. S. Kibby. 1,686,137; Oct. 2.
Washing machine. S. Sedita. 1,686,259; Oct. 2.
Washing machine. H. E. Williamson. 1,686,480; Oct. 2.
Water fountain. T. Schidorsky. 1,685,830; Oct. 2.
Water heater. C. H. Morrow. 1,685,857; Oct. 2.
Water softener. W. J. Kenney. 1,685,817; Oct. 2.
Water softener, Combined filter and upflow. W. J. Kenney. 1,685,818; Oct. 2.
Water-softening apparatus. W. J. Kenney. 1,685,816; Oct. 2.
Wax and asphaltic material from oil, Removing amorphous. T. Clarkson and H. R. Heal. 1,686,437; Oct. 2.
Weather strip, Filler. R. O. Oakley. 1,686,101; Oct. 2.
Weighing machine, Automatic. H. Richardson and S. G. Murray. 1,686,502; Oct. 2.
Wheel: *See*—
Spring wheel. Vehicle wheel.
Wheel. J. W. White. 1,686,479; Oct. 2.
Whistle. G. J. Zisch. Des. 76,516; Oct. 2.
Winder. B. A. Peterson. 1,686,102; Oct. 2.
Window. F. M. Lindersmith. 1,686,162; Oct. 2.
Window construction. C. Froesch. 1,686,082; Oct. 2.
Window fixture. G. E. Alphin. 1,685,831; Oct. 2.
Window regulator. J. H. Parsons. 1,686,171; Oct. 2.
Window structure. W. H. Taylor. 1,686,046; Oct. 2.
Window ventilator. C. G. Bloomer. 1,685,902; Oct. 2.
Window ventilator. E. L. Clarke. 1,686,407; Oct. 2.
Windshield heater. R. T. Cummings. 1,686,146; Oct. 2.
Windshield heater. W. O. Kennington. 1,686,012; Oct. 2.
Windshield regulator, Worm-drive. A. T. Potter. 1,685,786; Oct. 2.
Wiper, Windshield. G. P. Trego. 1,686,400; Oct. 2.
Wire fabric. H. Tampkin. 1,686,110; Oct. 2.
Wrapper, Lamp. F. S. Goodspeed. 1,686,273; Oct. 2.
Wrapping of cigarettes and other articles. W. E. Molins. 1,686,290; Oct. 2.
Wreath. V. T. Hoeflich. Des. 76,481; Oct. 2.
Wrench. T. S. and R. Hannes. 1,686,376; Oct. 2.
Wringer. W. G. Beatty. 1,686,119–20; Oct. 2.
X-ray tube. M. Morrison. 1,685,928; Oct. 2.
Zinc, Working. W. M. Towne. 1,686,353; Oct. 2.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 2, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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293— 36: 1,686,164
293— 55: 1,686,267
294— 4: 1,686,495
15: 1,686,115
74: 1,686,288
82: 1,686,074
110: 1,686,134
296— 1: 1,686,433
10: 1,686,294
45: 1,686,062
84: 1,685,786
97: 1,686,341
145: 1,686,126
299— 7: 1,685,830
301— 22: 1,686,479
23: 1,686,068
24: 1,686,301
302— 36: 1,686,256
303— 18: 1,685,840
1,685,890
22: 1,685,856
59: 1,685,837
60: 1,685,842
63: 1,685,855
79: 1,685,843
306— 1: 1,685,990
308— 2: 1,685,780
1,686,377
24: 1,686,489
92: 1,686,025
124: 1,685,865
181: 1,685,897
312— 39: R. 17,092
42: 1,686,091
60: 1,685,861
61: 1,685,862
77: 1,686,255

Oct. 9, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Absolute Con-Tac-Tor Corporation, Elkhart, Ind. Electrical switches. 247,822; Oct. 9; Serial No. 265,410; published July 24, 1928. Class 21.

Acme Steel Company, Chicago, Ill. Bands, stays, open seals, and seals. 247,878; Oct. 9; Serial No. 265,765; published July 31, 1928. Class 13.

Advance Machine Company, Chicago, Ill. Game apparatus. 247,922; Oct. 9; Serial No. 266,571; published July 24, 1928. Class 22.

Alliance Fertilizer Company, The, Alliance, Ohio. Fertilizer. 248,005; Oct. 9. Class 10.

Alpena Petroleum Products. (See Woelk, W. R.)

American Coalinoil Corporation, New York, N. Y. Fuel oil. 247,939; Oct. 9; Serial No. 254,119; published July 17, 1928. Class 15.

American Eagle Aircraft Corporation, Kansas City, Mo. Airplanes. 247,854; Oct. 9; Serial No. 267,824; published July 31, 1928. Class 19.

American Laundry Machinery Company, The, Norwood Station, Cincinnati, Ohio. Laundry and dry-cleaning machinery and appliances. 247,883; Oct. 9; Serial No. 265,182; published July 31, 1928. Class 24.

Ames Shovel & Tool Company, Boston, Mass. Shovels, spades, and scoops. 247,872; Oct. 9; Serial No. 266,234; published July 31, 1928. Class 23.

Amplex Manufacturing Company, assignor, by mesne assignments, to Chrysler Corporation, Detroit, Mich. Automobiles and their structural parts. 247,898; Oct. 9; Serial No. 264,346; published July 31, 1928. Class 19.

Andrews Crane Corporation, doing business as Vibrating Roller Co., New York, N. Y. Vibrating massage instruments. 247,947; Oct. 9; Serial No. 267,108; published July 31, 1928. Class 44.

Arnold, Ochs Co., Providence, R. I. Bracelets, brooches, pins, etc. 247,957; Oct. 9; Serial No. 266,638; published July 24, 1928. Class 28.

Arpeako, Inc., Rochester, N. Y. Smoked pork products, smoked dried beef, bologna, etc. 247,977; Oct. 9; Serial No. 258,390; published July 24, 1928. Class 46.

Ashland Refining Company, Ashland, Ky. Gasoline. 247,817–8; Oct. 9; Serial Nos. 266,183–4; published July 24, 1928. Class 15.

Ashland Refining Company, Ashland, Ky. Gasoline. 247,840; Oct. 9; Serial No. 268,132; published July 24, 1928. Class 15.

Aubry, Pierre, doing business as Laboratoires P. Aubry, Paris, France. Ampoules. 248,003; Oct. 9. Class 6.

Aunt Lizzie's Glass Cleaner Co. (See Dade, Clarence S.)

Avo Manhattan Spice Co. Inc., Jersey City, N. J. Spice mixture. 247,980; Oct. 9; Serial No. 254,567; published July 24, 1928. Class 46.

B-I Trade Builders, Chicago, Ill. Toy wagons. 247,936; Oct. 9; Serial No. 256,708; published July 31, 1928. Class 22.

Babbitt, B. T., Inc., New York, N. Y. Cleansing powder for artificial teeth. 247,918; Oct. 9; Serial No. 266,701; published July 31, 1928. Class 4.

Baker, W. H., Inc., Red Hook, N. Y. Sweet milk chocolate. 248,004; Oct. 9. Class 46.

Bar-Stone Oil Company, Chippewa Falls, Wis. Gasoline and other fuel oils and lubricating oils and greases. 247,952; Oct. 9; Serial No. 266,908; published July 24, 1928. Class 15.

Beacon Battery Co. (See Zimmerman, Charles.)

Beacon Oil Company (Inc.), Everett, Mass. Motor-lubricating oil. 247,825; Oct. 9; Serial No. 265,087; published July 24, 1928. Class 15.

Bee Jay Products Co., Inc., Long Island City, N. Y. Stringed musical instruments and parts. 247,937; Oct. 9; Serial No. 255,836; published July 24, 1928. Class 36.

Behrstock, Isadore, Los Angeles, Calif. Finger rings. 247,940; Oct. 9; Serial No. 250,832; published Sept. 6, 1927. Class 28.

Blackburn Products Company, The, Dayton, Ohio. Cathartic pills. 72,445; renewed Jan. 26, 1919.

Blask, Maxwell A., doing business as Personal Stationery Co., San Francisco, Calif. Playing cards. 247,877; Oct. 9; Serial No. 265,776; published July 24, 1928. Class 22.

Boeing Airplane Company, Seattle, Wash. Airplanes and structural parts. 247,902; Oct. 9; Serial No. 242,945; published July 31, 1928. Class 19.

Booth, A., and Company, Chicago, Ill.; Baltimore, Md.; St. Paul, Duluth, and Minneapolis, Minn.; St. Louis, Mo.; Louisville, Ky.; Omaha, Nebr.; Indianapolis, Ind.; and Port Arthur, Canada, to Booth Fisheries Company, Chicago, Ill., successor. Canned oysters. 71,364; renewed Nov. 24, 1928.

Borgfeldt, Geo., & Co., New York, N. Y. Dolls. 247,967; Oct. 9; Serial No. 260,795; published July 24, 1928. Class 22.

Bowler, Richard W., Bellingham, Wash. Shingle stain, automobile polish, etc. 247,890; Oct. 9; Serial No. 264,865; published July 31, 1928. Class 16.

Brauer, Carl Fr., G. m. b. H., Stettin, Germany. Spools for typewriters. 247,901; Oct. 9; Serial No. 264,136; published July 31, 1928. Class 23.

Bright Star Battery Co., Hoboken, N. J. Electric batteries, flash-light batteries, etc. 247,941; Oct. 9; Serial No. 250,595; published Sept. 20, 1927. Class 21.

Brite Floor Products Co. (See Yorburg, David M.)

Bromberg, Anna, New York, N. Y., assignor, by mesne assignments, to Robert R. Heywood, jr. Candles. 247,989; Oct. 9; Serial No. 247,989; published Feb. 14, 1928. Class 46.

Brooks, E. J., and Company, New York, N. Y. Base-metal truck-car and shipping-case seals, etc. 247,916; Oct. 9; Serial No. 266,644; published July 31, 1928. Class 25.

Brown, J. S., Mercantile Company, The, Denver, Colo. Canned fruits, canned vegetables, etc. 248,001; Oct. 9. Class 46.

Brown Medicine Co., The, Erie, Pa., to S. C. Wells & Company, Le Roy, N. Y., successor. Remedy for colds, throat affections, etc. 31,292; renewed Feb. 22, 1928.

Bulwark Watch Company. (See Epstein, Hayman.)

Burgess, C. F., Laboratories, Inc., Madison, Wis. Stereotype mats. 247,924; Oct. 9; Serial No. 267,404; published July 31, 1928. Class 37.

Butte, Paul C., doing business as Butte Electric and Manufacturing Company, San Francisco, Calif. Electric burglar alarms and alarm systems. 247,938; Oct. 9; Serial No. 255,793; published Jan. 10, 1928. Class 21.

C and H Products Corporation, New York, N. Y. Metallic paint. 247,881; Oct. 9; Serial No. 265,318; published July 31, 1928. Class 16.

Canby Ach & Canby Co., The. (See Webster, Edmund R.)

Capital Paper Company, Indianapolis, Ind. Toilet paper. 247,956; Oct. 9; Serial No. 266,714; published July 31, 1928. Class 37.

Carson Pirie Scott & Co., Chicago, Ill. Golf balls. 247,838; Oct. 9; Serial No. 268,021; published July 31, 1928. Class 22.

Carter, John B., doing business as Essential Ice Cream Co., New York, N. Y. Frozen confection. 247,983; Oct. 9; Serial No. 253,137; published June 12, 1928. Class 46.

Champion Table Co. (See Jones, C. H.)

Chrysler Corporation. (See Amplex Manufacturing Company, assignor.)

Cities Service Oil Company, Cleveland, Ohio. Gasoline. 247,820; Oct. 9; Serial No. 265,952; published July 24, 1928. Class 15.

Colgate & Company, Jersey City, N. J. Soap. 247,861; Oct. 9; Serial No. 267,241; published July 24, 1928. Class 4.

Continental Baking Company, Wilmington, Del., and New York, N. Y. Cake. 247,986; Oct. 9; Serial No. 250,679; published July 24, 1928. Class 46.

Cooper & Forman. (See Forman, Arthur W.)

Corbett & Bertolone, Inc., New York, N. Y. Jewelry. 247,945; Oct. 9; Serial No. 267,185; published July 24, 1928. Class 28.

Crimson Rambler Products Corporation, Portland, Oreg. Cane and maple syrup. 247,994; Oct. 9; Serial No. 236,010; published Dec. 14, 1926. Class 46.

Crouse-Hinds Company, Syracuse, N. Y. Electrical supplies. 71,992; renewed Dec. 29, 1928.

Dade, Clarence S., doing business as Aunt Lizzie's Glass Cleaner Co., Jamaica Plain, Mass. Cleaner for glass, windows, etc. 247,857; Oct. 9; Serial No. 267,540; published July 24, 1928. Class 4.

Davis, Berry J., doing business as World Star Paint Co., Kansas City, Mo. House paint, barn paint, interior enamel, etc. 247,893; Oct. 9; Serial No. 264,568; published July 31, 1928. Class 16.

Decks Manufacturing Company, Inc., Camden, N. J. Toy guns, felt-nose bullets, and other projectiles therefor, and targets used therewith. 247,843; Oct. 9; Serial No. 268,215; published July 31, 1928. Class 22.

Deming, William L., Salem, Ohio. Mixing faucets, valves, nozzles, and connections. 247,848; Oct. 9; Serial No. 268,146; published July 31, 1928. Class 13.

Des Moines Wood Products Company, Des Moines, Iowa. Golf-putting practice device. 247,827; Oct. 9; Serial No. 264,872; published July 31, 1928. Class 22.

Di Clo, John, doing business as Ros Rol Co., Norristown, Pa. Cleanser. 247,984; Oct. 9; Serial No. 252,257; published July 31, 1928. Class 4.

Dunklin, William, doing business as The Klindun Company, New York, N. Y. Linotype-matrix cleaner. 247,917; Oct. 9; Serial No. 266,719; published July 31, 1928. Class 4.

Earle, Marie, Inc., New York, N. Y. Soaps. 247,886; Oct. 9; Serial No. 267,068; published July 24, 1928. Class 4.

Ehrsam, Frederick, doing business as The Victor Screen Ventilator Co., Reading, Pa. Deflector and adjustable louver window ventilators and parts thereof. 247,876; Oct. 9; Serial No. 265,833; published July 31, 1928. Class 34.

Elsen, William M., Company, Inc., The, New York, N. Y. Elastic stockings. 247,868; Oct. 9; Serial No. 266,364; published July 24, 1928. Class 44.

Emery & Kavanagh Co., Los Angeles, Calif. Fresh vegetables and melons. 247,968; Oct. 9; Serial No. 260,263; published July 31, 1928. Class 46.

Epstein, Hayman, doing business as Bulwark Watch Company, New York, N. Y. Watches, watchcases, etc. 247,835; Oct. 9; Serial No. 267,542; published July 31, 1928. Class 27.

Eshelman, John W., & Sons, Lancaster, Pa. Livestock foods. 247,971; Oct. 9; Serial No. 259,538; published June 5, 1928. Class 46.
Essential Ice Cream Co. (See Carter, John B.)
Federal Distributors, Inc., Portland, Oreg. Powdered soap, mechanic's soap, metal polish, etc. 247,895; Oct. 9; Serial No. 264,511; published July 31, 1928. Class 4.
Fenn Manufacturing Company, The, Charlotte, Mich. Coaster sleds. 247,836; Oct. 9; Serial No. 267,648; published July 31, 1928. Class 22.
Firth-Sterling Steel Company, McKeesport, Pa. Alloys or cutting metal. 247,943–4; Oct. 9; Serial Nos. 267,356–7; published July 24, 1928. Class 14.
Fischer, John R., doing business as Pacific Macaroni Co., Los Angeles, Calif. Macaroni, spaghetti, and noodles. 247,969; Oct. 9; Serial No. 259,951; published July 24, 1928. Class 46.
Fleischmann & Co., to The Fleischmann Company, Cincinnati, Ohio, and New York, N. Y., successor. Compressed yeast. 31,051–2; renewed Dec. 28, 1927.
Forman, Arthur W., doing business as Cooper & Forman, New York, N. Y. Platinum rings, brooches, bar pins, etc. 247,834; Oct. 9; Serial No. 267,489; published July 31, 1928. Class 28.
Gooby-Sticks Corporation. (See Goodwin, Benjamin F.)
Goodwin, Benjamin F., doing business as Gooby-Sticks Corporation, New York, N. Y. Wafer rolls filled with peanut butter. 247,914; Oct. 9; Serial No. 266,806; published July 31, 1928. Class 46.
Gore, Frank, Los Angeles, Calif. Fresh vegetables. 247,991; Oct. 9; Serial No. 247,017; published July 31, 1928. Class 46.
Gorse, Frank W., Co., Needham, Mass. Knitted surgical elastic stockings, surgical belts, etc. 247,823; Oct. 9; Serial No. 265,380; published July 31, 1928. Class 44.
Gray, Peter, & Sons Inc., Cambridge, Mass. Railway-signal electric lanterns. 248,008; Oct. 9. Class 21.
Great Lakes Varnish Works, Inc., Chicago, Ill. Paint enamels and varnishes. 247,879; Oct. 9; Serial No. 265,537; published July 24, 1928. Class 16.
Gun-Fil Corporation, Philadelphia, Pa. Lubricating oils and greases. 247,833; Oct. 9; Serial No. 261,959; published July 24, 1928. Class 15.
Hanna Manufacturing Company, The, Athens, Ga. Baseball bats. 247,853; Oct. 9; Serial No. 267,841; published July 24, 1928. Class 22.
Harbauer Company, The, Toledo, Ohio. Tomato catsup, chili sauce, pickle relishes, etc. 247,993; Oct. 9; Serial No. 237,169; published June 12, 1928. Class 46.
Helt-Miller-Lau Company, Fort Wayne, Ind. Candy. 247,970; Oct. 9; Serial No. 259,551; published July 31, 1928. Class 46.
Heller Brothers Importing Co., Inc., doing business as Vita Fish Preserving Works, New York, N. Y. Pickles, Bismarck, dried, and smoked herring, smoked eels, etc. 247,904; Oct. 9; Serial No. 263,823; published July 31, 1928. Class 46.
Henckels, J. A., Solingen, Germany. Nail and cuticle scissors, corn razors, nail nippers, etc. 247,951; Oct. 9; Serial No. 266,932; published July 31, 1928. Class 44.
Herron, James H., Company, Cleveland, Ohio. Electrical industrial furnaces. 247,819; Oct. 9; Serial No. 266,029; published July 24, 1928. Class 21.
Hervé, Hervé & Hervé, Paris, France. Painters' sizing compositions. 247,919; Oct. 9; Serial No. 266,662; published July 31, 1928. Class 16.
Heywood, Robert R., jr. (See Bromberg, Anna, assignor.)
Hill Manufacturing Company, Inc., Belmond, Iowa. Automobile awnings. 247,850; Oct. 9; Serial No. 268,037; published July 31, 1928. Class 19.
Hillerich & Bradsby Co., Louisville, Ky. Baseball bats. 247,856; Oct. 9; Serial No. 267,577; published July 24, 1928. Class 22.
Hilsenbeck, L., Inc., New York, N. Y. Prophylactic rubber articles. 247,841; Oct. 9; Serial No. 268,157; published July 31, 1928. Class 44.
Holtz, Fred A., Elkhart, Ind. Chart for illustrating household expenditures. 247,892; Oct. 9; Serial No. 264,686; published July 31, 1928. Class 38.
Hygeia Nursing Bottle Company, Inc., Buffalo, N. Y. Baby or nursing bottles. 247,867; Oct. 9; Serial No. 266,376; published July 24, 1928. Class 44.
Industrial Executive, Inc., The, New York, N. Y. Periodical. 247,860; Oct. 9; Serial No. 267,257; published July 31, 1928. Class 38.
Insect Electrocutor Company, Spokane, Wash. Electrical insect traps or electrical exterminators. 247,946; Oct. 9; Serial No. 267,124; published July 24, 1928. Class 21.
Jacobsen Publishing Company, The, Chicago, Ill. Magazine supplement. 247,908; Oct. 9; Serial No. 266,905; published July 31, 1928. Class 38.
Jacobsen Publishing Company, The, Chicago, Ill. Magazines and magazine sections. 247,966; Oct. 9; Serial No. 266,377; published July 31, 1928. Class 38.
James Manufacturing Company, Fort Atkinson, Wis. Feed, litter, milk cans, and swill carriers and carrier tracking, etc. 247,864; Oct. 9; Serial No. 267,056; published July 31, 1928. Class 23.
James Manufacturing Company, Fort Atkinson, Wis. Metal gravity roof ventilators, brooder stoves, etc. 247,865; Oct. 9; Serial No. 267,052; published July 31, 1928. Class 34.
James Manufacturing Company, Fort Atkinson, Wis. Plans and specifications for farm buildings. 247,866; Oct. 9; Serial No. 267,051; published July 24, 1928. Class 38.
James Manufacturing Company, Fort Atkinson, Wis. Enamel and oil paint. 247,907; Oct. 9; Serial No. 267,049; published July 24, 1928. Class 16.
Johnson, S. C., & Son, Racine, Wis. Lacquers. 247,965; Oct. 9; Serial No. 266,378; published July 24, 1928. Class 16.
Johnston, C. G., & Sons, Clearfield, Pa. Cookies. 247,869; Oct. 9; Serial No. 266,324; published July 24, 1928. Class 46.
Jones, C. H., doing business as Champion Table Co., Davenport, Iowa. Chiropractic adjusting tables. 247,934; Oct. 9; Serial No. 259,630; published Mar. 20, 1928. Class 44.
Jordan, William M., Birmingham, Ala. Artificial bait. 247,963–4; Oct. 9; Serial Nos. 266,379–80; published July 24, 1928. Class 22.
Junge Baking Company, Joplin, Mo. Bread. 247,849; Oct. 9; Serial No. 268,042; published July 24, 1928. Class 46.
Klindun Company, The. (See Dunklin, William.)
Knudsen, Krestine, Oakland, Calif. Dolls. 248,002; Oct. 9. Class 22.
Kokomo Stamped Metal Co., Kokomo, Ind. Roller skates. 247,972; Oct. 9; Serial No. 259,412; published July 24, 1928. Class 22.
Kramer & Barcus, Leesburg, Fla. Fresh watermelons. 247,855; Oct. 9; Serial No. 267,590; published July 31, 1928. Class 46.
Kroydon Company, The, Hilton, N. J. Golf clubs, golf balls, golf bags, and golf tees. 247,816; Oct. 9; Serial No. 266,205; published July 31, 1928. Class 22.
Kwong Quong Chiy Co. (See Lain, Chin.)
Laboratoires P. Aubry. (See Aubry, Pierre.)
Lain, Chin, doing business as Kwong Quong Chiy Co., Canton, China, and as The Quong Chong Co., San Francisco, Calif. General tonic. 247,891; Oct. 9; Serial No. 264,690; published July 17, 1928. Class 6.
Larsen, Martin C., Los Angeles, Calif. Educational numerical puzzles. 247,906; Oct. 9; Serial No. 263,410; published July 24, 1928. Class 22.
Lebanon Mill Co., Pawtucket, R. I. Clothing. 71,529; renewed Dec. 1, 1928.
Lilly, Eli, and Company, Indianapolis, Ind. Rectal analgesia accessory sets. 247,839; Oct. 9; Serial No. 268,044; published July 31, 1928. Class 44.
Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes and cookies. 247,852; Oct. 9; Serial No. 267,844; published July 24, 1928. Class 46.
Maas, Albert G., Indianapolis, Ind. Dry-cleaning preparation. 247,875; Oct. 9; Serial No. 265,913; published July 31, 1928. Class 4.
Macy, R. H., & Co., Inc., New York, N. Y. Golf clubs. 247,844; Oct. 9; Serial No. 268,505; published July 31, 1928. Class 22.
McComb, James B., New York, N. Y. Powder to be dissolved in water for use in cleaning, etc. 247,851; Oct. 9; Serial No. 267,898; published July 24, 1928. Class 4.
Melms Manufacturing Co., Inc., The, Detroit, Mich. Finger rings. 247,923; Oct. 9; Serial No. 267,436; published July 31, 1928. Class 28.
Miles Bros. & Co. Inc., New York, N. Y. Shaving brushes. 247,826; Oct. 9; Serial No. 265,056; published July 24, 1928. Class 29.
Mitchell, Thomas J., doing business as National Pad and Paper Company, Utica, N. Y. Writing tablets, composition books, etc. 247,830; Oct. 9; Serial No. 263,172; published July 31, 1928. Class 37.
Montague Rod and Reel Company, Montague City, Mass. Fishing rods. 247,925–9; Oct. 9; Serial Nos. 260,834–8; published July 24, 1928. Class 22.
Montague Rod and Reel Company, Montague City, Mass. Fishing rods. 247,930; Oct. 9; Serial No. 260,833; published July 31, 1928. Class 22.
Montgomery Ward & Co. Incorporated, Chicago, Ill. Canned vegetables, fruits, soups, roasted coffee, etc. 247,974; Oct. 9; Serial No. 258,644; published July 24, 1928. Class 46.
National Ice Cream Company, Louisville, Ky. Ice Cream. 247,910; Oct. 9; Serial No. 266,944; published July 24, 1928. Class 46.
National Pad and Paper Company. (See Mitchell, Thomas J.)
Natural Eyesight Institute Inc., Los Angeles, Calif. Instruction courses published in a series. 247,889; Oct. 9; Serial No. 264,898; published July 31, 1928. Class 38.
Navarro, Hijo De Juan J., Espinardo-Murcia, Spain, and New York, N. Y. Paprika. 247,988; Oct. 9; Serial No. 249,477; published July 24, 1928. Class 46.
Neuman & Schwiers Co. Inc., The, New York, N. Y. Foods. 71,817; renewed Dec. 15, 1928.
New Jersey Machine Corporation, Hoboken, N. J. Gumming machines, roll-gumming machines, box-stripping machines, etc. 247,909; Oct. 9; Serial No. 266,945; published July 31, 1928. Class 23.
New York Canners, Inc., Rochester, N. Y. Canned fruits, canned vegetables, etc. 247,985; Oct. 9; Serial No. 251,236; published July 24, 1928. Class 46.
Northland Ski Manufacturing Co., St. Paul, Minn. Skis, tobaggans, hockey sticks, golf clubs, etc. 247,905; Oct. 9; Serial No. 211,865; published July 24, 1928. Class 22.

Northwestern Drug Company, Minneapolis, Minn. Carbolic acid, ammonia, aromatic spirits, etc. 248,007; Oct. 9. Class 6.
Ohio Varnish Company, The, Cleveland, Ohio. House paint, colored enamels, lacquers, etc. 247,959; Oct. 9; Serial No. 266,553; published July 24, 1928. Class 16.
Oneida Community, Limited, Oneida, N. Y. Silver flatware. 247,935; Oct. 9; Serial No. 257,023; published July 24, 1928. Class 28.
Oneida Community Limited, Oneida, N. Y. Silver-plated flatware, hollow ware, and cutlery. 247,949; Oct. 9; Serial No. 267,008; published July 31, 1928. Class 28.
Orchestraphone Company, Chicago, Ill. Phonographs. 247,831; Oct. 9; Serial No. 262,253; published July 24, 1928. Class 36.
Orchestraphone Company, Chicago, Ill. Electrical reproducing and amplifying apparatus for phonograph records. 247,832; Oct. 9; Serial No. 262,252; published July 24, 1928. Class 21.
Overland Automobile Company, Indianapolis, Ind., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Automobiles. 72,436; renewed Jan. 26, 1929.
Ozark Fried Pie Shope, Kansas City, Mo. Fried pies. 247,999; Oct. 9. Class 46.
Pacific Hair Goods Co., Inc., San Francisco, Calif. Hair-waving machines, protectors, and permanent-waving pads for use therewith. 247,932; Oct. 9; Serial No. 260,235; published July 31, 1928. Class 44.
Pacific Macaroni Co. (See Fischer, John R.)
Palmolive-Peet Company, The, Chicago, Ill. Soap. 247,858; Oct. 9; Serial No. 267,505; published July 24, 1928. Class 4.
Peek & Velsor, to Peek & Velsor, Inc., New York, N. Y., successor. Remedies for asthma, catarrh, etc. 71,212; renewed Nov. 10, 1928.
Peninsular Paint and Varnish Company, Detroit, Mich. Paint enamels, lacquer enamels, lacquers, etc. 247,900; Oct. 9; Serial No. 264,190; published July 24, 1928. Class 16.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Pencil tablets, composition books, etc. 247,950; Oct. 9; Serial No. 266,949; published July 31, 1928. Class 37.
Perfect Foods, Inc., Lansdale, Pa. Pretzels. 247,911; Oct. 9; Serial No. 266,828; published July 24, 1928. Class 46.
Personal Stationary Co. (See Blask, Maxwell A.)
Petri Cigar Co. Inc., San Francisco, Calif. Cigars. 247,894; Oct. 9; Serial No. 264,531; published July 31, 1928. Class 17.
Phono Link Co., Inc., The, New York, N. Y. Electric pick-up device. 247,821; Oct. 9; Serial No. 265,496; published July 24, 1928. Class 21.
Pittsburgh Provision and Packing Company, Pittsburgh, Pa. Sausage, bacon, corned beef, etc. 247,996; Oct. 9; Serial No. 196,966; published July 22, 1924. Class 46.
Playgolf, Inc., Cleveland, Ohio. Golf bags. 247,874; Oct. 9; Serial No. 266,095; published July 24, 1928. Class 22.
Powers & Mayer, Inc., New York, N. Y. Precious stones and jewelry. 247,997; Oct. 9. Class 28.
Prina, Frank R., Corporation, The, New York, N. Y. Wheat mixed feed. 247,899; Oct. 9; Serial No. 264,328; published July 3, 1928. Class 46.
Publix Theatres Corporation, New York, N. Y. Coupon books and coupons. 247,990; Oct. 9; Serial No. 248,928; published July 31, 1928. Class 38.
Quong Chong Co. (See Lain, Chin.)
R. F. Corp., The, Boston, Mass. Clinical thermometers. 247,912; Oct. 9; Serial No. 266,883; published July 24, 1928. Class 44.
R. F. Corp., The, Boston, Mass. Clinical thermometers. 247,954; Oct. 9; Serial No. 266,882; published July 31, 1928. Class 44.
Rattan Manufacturing Co., The, New Haven, Conn. Conduit fittings, outlet boxes, and covers. 247,948; Oct. 9; Serial No. 267,011; published July 31, 1928. Class 21.
Remington Arms Company, Inc., Bridgeport, Conn.; Ilion, N. Y.; and New York, N. Y. Vending machines. 247,982; Oct. 9; Serial No. 253,162; published July 31, 1928. Class 23.
Riverside Manufacturing Co., St. Louis, Mo. Soap compounds. 247,859; Oct. 9; Serial No. 267,276; published July 24, 1928. Class 4.
Rochester Machine Screw Company, Rochester, N. Y. Screws, bolts, and studs. 248,005; Oct. 9. Class 13.
Ros Rol Co. (See Di Clo, John.)
Rose, George F., London, England. Lubricating oils. 247,981; Oct. 9; Serial No. 253,771; published June 5, 1928. Class 15.
Safety Glass and Xetal Products, Limited, Stapleford, England. Belting, nonmetallic tires, etc. 247,987; Oct. 9; Serial No. 249,028; published July 24, 1928. Class 35.
Schmitt, Frank G., assignor to Frank G. Schmitt Co., Henderson, Ky. Cigars. 72,204; renewed Jan. 5, 1929.
Schoenhofen Company, Chicago, Ill. Malt syrup. 247,921; Oct. 9; Serial No. 266,625; published July 17, 1928. Class 46.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 247,820; Oct. 9; Serial No. 264,535; published July 31, 1928. Class 44.
Sigma Sigma Sigma, Woodstock, Va. Fraternity badges, lapel buttons, etc. 247,942; Oct. 9; Serial No. 249,241; published July 24, 1928. Class 28.
Simson & Frey, Inc., New York, N. Y. Reeds for clarinets, oboes, etc. 247,953; Oct. 9; Serial No. 266,892; published July 24, 1928. Class 36.
South Bend Watch Co., South Bend, Ind. Watches and watchcases. 247,814; Oct. 9; Serial No. 266,487; published July 24, 1928. Class 27.
South Bend Watch Co., South Bend, Ind. Watches and watchcases. 247,815; Oct. 9; Serial No. 266,490; published July 24, 1928. Class 27.
South Bend Watch Co., South Bend, Ind. Watches and watchcases. 247,960–1; Oct. 9; Serial Nos. 266,491–2; published July 24, 1928. Class 27.
South Bend Watch Co., South Bend, Ind. Watches and watchcases. 247,962; Oct. 9; Serial No. 266,489; published July 24, 1928. Class 27.
Southwestern Milling Company, Inc., The, New York, N. Y. Flour and wheat flour. 247,902; Oct. 9; Serial No. 263,979; published July 24, 1928. Class 46.
Squibb, E. R., & Sons, New York, N. Y. Toothbrush. 247,842; Oct. 9; Serial No. 268,177; published July 24, 1928. Class 29.
Staiger & Sons, New York, N. Y. Jewelry. 247,933; Oct. 9; Serial No. 260,147; published July 24, 1928. Class 28.
Standard Drug Company, Los Angeles, Calif. Automobile and furniture polish. 247,873; Oct. 9; Serial No. 266,107; published July 31, 1928. Class 16.
Stanley Works, The, New Britain, Conn. Hinges, screen hangers, hasps, etc. 247,896; Oct. 9; Serial No. 264,483; published July 24, 1928. Class 13.
Stanley Works, The, New Britain, Conn. Portable electric drills. 247,955; Oct. 9; Serial No. 266,835; published July 24, 1928. Class 21.
Sunrich Canneries, Beaver Dam, Wis. Canned vegetables. 247,882; Oct. 9; Serial No. 265,303; published July 31, 1928. Class 46.
Supreme Beverage Co., Chicago, Ill. Maltless carbonated beverages. 247,913; Oct. 9; Serial No. 266,837; published July 31, 1928. Class 45.
Surface Combustion Company, Inc., The, Toledo, Ohio. Heating apparatus for use in the industrial arts. 247,915; Oct. 9; Serial No. 266,767; published July 31, 1928. Class 34.
Swift and Company, Chicago, Ill. Prepared food. 247,920; Oct. 9; Serial No. 266,631; published July 24, 1928. Class 46.
Thermatol Manufacturing Co., Springfield, Mass. Thermostatically-controlled heat regulators. 247,905; Oct. 9; Serial No. 263,793; published July 31, 1928. Class 26.
Tiffany & Company, New York, N. Y. Watches and clocks. 247,837; Oct. 9; Serial No. 268,005; published July 31, 1928. Class 27.
Tiffany & Company, New York, N. Y. Cleaning and polishing material. 247,863; Oct. 9; Serial No. 267,090; published July 24, 1928. Class 4.
U. S. Hame Company, Buffalo, N. Y. Hames and parts thereof, etc. 247,973; Oct. 9; Serial No. 259,031; published Feb. 7, 1928. Class 3.
United States Macaroni Co. Inc., Los Angeles, Calif. Macaroni. 247,887; Oct. 9; Serial No. 265,025; published July 24, 1928. Class 46.
Universal Mills, Fort Worth, Tex. Feed. 247,862; Oct. 9; Serial No. 267,220; published July 24, 1928. Class 46.
Ventre, Eugéne, Opelousas, La. Compound syrup. 247,888; Oct. 9; Serial No. 264,930; published July 24, 1928. Class 46.
Viatte & Guenin, Bienne, Switzerland, and New York, N. Y. Watch movements, watchcases, watch parts, and watches. 247,958; Oct. 9; Serial No. 266,568; published July 24, 1928. Class 27.
Vibrating Roller Co. (See Andrews Crane Corporation.)
Victor Screen Ventilator Co., The. (See Ehrsam, Frederick.)
Vining, Augustus G., Atlanta, Ga. Prophylactic rubber articles. 247,885; Oct. 9; Serial No. 265,178; published July 24, 1928. Class 44.
Vita Fish Preserving Works. (See Heller Brothers Importing Co.)
Wagner, Günther, Hanover, Germany. Typewriting ribbons, carbon paper, and inking pads. 247,845; Oct. 9; Serial No. 268,199; published July 31, 1928. Class 11.
Wagner, Günther, Hanover, Germany. Adhesive paste, glue, and mucilage. 247,903; Oct. 9; Serial No. 263,943; published July 24, 1928. Class 5.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Sanitary napkins. 247,847; Oct. 9; Serial No. 268,191; published July 24, 1928. Class 44.
Watson, William T., Vancouver, British Columbia, Canada. Toy vehicles. 247,897; Oct. 9; Serial No. 264,398; published July 24, 1928. Class 22.
Webster, Edmund R., to The Canby Ach & Canby Co., Cincinnati, Ohio, successor. Coffee, tea, flavoring extracts, and spices. 71,567; renewed Dec. 1, 1928.
Wei's, S. C., & Company. (See Brown Medicine Co., The.)
Wellston Radio Corporation, St. Louis, Mo. Radio receiving sets, radio loud speakers, etc. 248,000; Oct. 9. Class 21.
Western Oil & Refining Company, Los Angeles, Calif. Petroleum products. 247,931; Oct. 9; Serial No. 260,301; published July 24, 1928. Class 15.
Whites Fruit Agency, Incorporated, Seattle, Wash. Fresh deciduous fruits 247,975–6; Oct. 9; Serial Nos. 258,545–6; published July 31, 1928. Class 46.

Wiggins Chemical Co., Inc., The, Cincinnati, Ohio. Soap. 247,979; Oct. 9; Serial No. 256,065; published Feb. 14, 1928. Class 4.
Wilkins, M. O., Corporation, New York, N. Y. Household cleanser. 247,978; Oct. 9; Serial No. 256,151; published July 31, 1928. Class 4.
Willys-Overland Company, The. (See Overland Automobile Company, assignor.)
Wilson-Western Sporting Goods Company, Chicago, Ill. Baseball gloves and mitts. 247,884; Oct. 9; Serial No. 265,181; published July 24, 1928. Class 22.
Woelk, W. R., doing business as Alpena Petroleum Products, Alpena, Mich. Lubricating oils. 247,828; Oct. 9; Serial No. 264,627; published July 24, 1928. Class 15.
Woolson Spice Company, The, Toledo, Ohio. Blended coffee. 72,077; renewed Dec. 29, 1928.
World Star Paint Co. (See Davis, Berry J.)
Yamate, Sasato, doing business as Yamate Bros., San Francisco, Calif. Canned crab meat. 247,871; Oct. 9; Serial No. 266,291; published July 31, 1928. Class 46.
Yawman and Erbe Mfg. Co., Rochester, N. Y. Ledger card trays of sheet metal. 247,846; Oct. 9; Serial No. 268,198; published July 31, 1928. Class 32.
Yorburg, David M., doing business as Brite Floor Products Co., Brooklyn, N. Y. Polish. 247,880; Oct. 9; Serial No. 265,458; published July 24, 1928. Class 16.
Yvette Co., New York, N. Y. Permanent-waving machines and accessories and equipment therefor. 247,870; Oct. 9; Serial No. 266,293; published July 24, 1928. Class 44.
Zehner Packing Company, The, Bellevue, Ohio. Ham. 247,998; Oct. 9; Serial No. 266,504; published July 17, 1928. Class 46.
Zimmerman, Charles, doing business as Beacon Battery Co., New York, N. Y. Batteries. 247,824; Oct. 9; Serial No. 265,352; published July 24, 1928. Class 21.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

A F S Company. (See Fryman, Abraham S.)
Aronson Bros. Shoe Co. Inc., Boston, Mass. Ann Howe Shoe For Women. For Shoes. 34,684; Oct. 9.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Naturelle Furs of Shelton Looms. For Pile Fabrics in the Piece. 34,685; Oct. 9.
Briggs and Stratton Corporation, Milwaukee, Wis. Insured. For Padlocks. 34,686; Oct. 9.
Burrell-Dugger Company, Indianapolis, Ind. T. S. F. For Insecticide or Preparation to Kill Lice. 34,687; Oct. 9.
Florida Fruit Growers Corpn., Dania, Fla. Cardinal Brand. For Fresh Tomatoes. 34,688; Oct. 9.
Fritsch, Lewis A., Cincinnati, Ohio. Brooklyn Bridge. For an Abdominal Supporter. 34,689; Oct. 9.
Fryman, Abraham S., doing business as Fryman Chemical Works and A F S Company, Chicago, Ill. General. For a General House Cleaner. 34,690; Oct. 9.
Harper, James A., Supply Company, The, Kansas City, Mo. Sweetheart. For Cake. 34,691; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Joseph's. For Boxes. 34,692; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. James McCreery & Co. For Boxes. 34,693; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. The Hub. For Boxes. 34,694; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. S. Kann Sons Co. For Boxes. 34,695; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Toledo's Store For Men. For Boxes. 34,696; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. McKelvey's. For Boxes. 34,697; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. The Store of Quality. For Boxes. 34,698; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Davidson Bros. Company. For Boxes. 34,699; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Wise, Smith & Company. For Boxes. 34,700; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Snyder & Berman Incorporated. For Boxes. 34,701; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Boston Shoe Co. Incorporated. For Boxes. 34,702; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. S and W Komaroff's. For Boxes. 34,703; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Katz & Levy. For Boxes. 34,704; Oct. 9.
Hoogue-Sprague Corporation, Lynn, Mass. Embry & Co. Incorporated. For Boxes. 34,705; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Sommer & Kaufmann. For Boxes. 34,706; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Boston Bootery Incorporated. For Boxes. 34,707; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. The Guarantee Shoe Company. For Boxes. 34,708; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Martin's. For Boxes. 34,709; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Boston Shoe Store. For Boxes. 34,710; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Randall & Simmers. For Boxes. 34,711; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Sutton Shoe Co. For Boxes. 34,712; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Stone's Botterie Inc. For Boxes. 34,713; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. The Hecht Co. For Boxes. 34,714; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. The Davis-Smith Botterie. For Boxes. 34,715; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Boston Shoe Co. Incorporated. For Boxes. 34,716; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Marks Isaacs Co. For Boxes. 34,717; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Bett Maid. For Boxes. 34,718; Oct. 9.
Hoague-Sprngue Corporation, Lynn, Mass. The French Shoppe. For Boxes. 34,719; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Arrow Shoe. For Boxes. 34,720; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Ideal Shoe Company. For Boxes. 34,721; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. If It's New! We Have It. For Boxes. 34,722; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Kennedy-Gillespie Shoe Co. For Boxes. 34,723; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Genung's. For Boxes. 34,724; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Woolf & Reynolds Inc. For Boxes. 34,725; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Watters. For Boxes. 34,726; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Lady Claire. For Boxes. 34,727; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Taylor's. For Boxes. 34,728; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Joseph Horne Co. For Boxes. 34,729; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Best Shoe. For Boxes. 34,730; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Julius Bernstein. For Boxes. 34,731; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Schmidt's Quality Shoes. For Boxes. 34,732; Oct. 9
Hoague-Sprague Corporation, Lynn, Mass. Samter Bros. Co. For Boxes. 34,733; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Katz. For Boxes. 34,734; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. The Parisian Co. For Boxes. 34,735; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Benjamin's. For Boxes. 34,736; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Cinderella. For Boxes. 34,737; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Wm. Cohan. For Boxes. 34,738; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Styles of Today with a Touch of Tomorrow. For Boxes. 34,739; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Hanapeds. For Boxes. 34,740; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Brown's Booterie. For Boxes. 34,741; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Rodes-Rapier Co. For Boxes. 34,742; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Klnnaman & Neal. For Boxes. 34,743; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Known for Service, Quality and Low Prices. For Boxes. 34,744; Oct. 9.
Hoague-Sprague Corporation, Lynn, Mass. Hassel's Shoes. For Boxes. 34,745; Oct. 9.
Johnson, John D., Camas, Wash. J—J. For Shoe Dressing. 34,746; Oct. 9.
Kirkpatrick Laboratories, Inc., Portland, Oreg. Body Cell Salts (Solution "A"). For Medicinal Preparation. 24,747; Oct. 9.
Kirkpatrick Laboratories, Inc., Portland, Oreg. Body Cell Salts (Solution B.) For Medicinal Preparation. 34,748; Oct. 9.
Kirkpatrick Laboratories, Inc., Portland, Oreg. Body Cell Salts (Solution C.) For Medicinal Preparation. 34,749; Oct. 9.
Kirkpatrick Laboratories, Inc., Portland, Oreg. Body Cell Salts (Solution D.) For Medicinal preparation. 34,750. Oct. 9.
Landsberg, William R., doing business as Wm. R. Landsberg Rubber Co., Waukesha, Wis. Speedway patch. For Tube-Patch Kits. 34,751; Oct. 9.
Morrison, Leon, doing business as The Russian Drug Manufacturing Co., Buffalo, N. Y. Nuro Triple Tonic. For Reconstructive Tonic. 34,752; Oct. 9.
National Carbon Company, Inc., New York, N. Y. Eveready Radio "B" Battery. For Electric Batteries. 34,753; Oct. 9.
Palmer Corporation, The, Medford, Oreg., and Chicago, Ill. Palmer House. For Pears. 34,754; Oct. 9.
Petrosemolo, Eugene J., New York, N. Y. Olio D'Oliva. For Olive Oil. 34,755; Oct. 9.

Purity Ice Cream Co., Inc., Newark, N. J. Summer's Frozen Suckers. For Frozen Water Ices on Stick. 34,756; Oct. 9.
Research Products Company, Los Angeles, Calif. Mayadine. For a Medical Preparation for Treatment of Arthritis, Neuritis, and Rheumatic Conditions. 34,757; Oct. 9.
Russian Drug Manufacturing Co., The. (See Morrison, Leon.)
Smart & Final Co., Wilmington, Calif. Table Queen. For Canned Hominy. 34,758; Oct. 9.
Sullivan-Ulster Cauliflower Growers Cooperative, Inc., Liberty, N. Y. S-Ulco Brand. For Cauliflower. 34,759; Oct. 9.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Collingbourne Mills, Inc., Elgin, Ill. Collingbourne's Gift Ribbon Tie. For Gift Ribbon. 11,257; Oct. 9.
Cream of Wheat Co., Minneapolis, Minn. Splendid Results From This Plan. For Wheat Breakfast Food. 11,258; Oct. 9.
Fandango Products of New York, Inc., New York, N. Y. New 1928 Fandango Auto Slip Covers. For Automobile Upholstery Covers. 11,259; Oct. 9.
Lee, H. D., Mercantile Company, The, Kansas City, Mo. Lee Overalls. For Work Clothes—Namely, Overalls and Jackets. 11,260; Oct. 9.
Lee, H. D., Mercantile Company, The, Kansas City, Mo. Lee Union-Alls. For Work Clothes—Namely, Button and Buttonless One-Piece Work Garments. 11,261; Oct. 9.
Lee, H. D., Mercantile Company, The, Kansas City, Mo. Lee Play Suits. For Children's Clothes—Namely, Overalls and Button and Buttonless Children's Garments. 11,262; Oct. 9.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aix-Olein Co., Inc., Brooklyn, N. Y. Soaps. 268,477; Oct. 9. Class 4.
Alta Vista Wines Company. (See De La Montanya, Pierre.)
American Cement Paint Co., Rossville, Ga. Dry paint. 271,107; Oct. 9. Class 16.
American Cone & Pretzel Company, Philadelphia, Pa. Ice-cream cones, pretzels, pie, etc. 270,272; Oct. 9. Class 46.
American Cyanamid Company, New York, N. Y. Case-hardening materials. 271,159–60; Oct. 9. Class 6.
American Eagle Publishing Co., Inc., The, Baltimore, Md., and New York, N. Y. Periodical. 268,263; Oct. 9. Class 38.
American Export Door Corporation, Tacoma, Wash. Wooden doors. 269,706; Oct. 9. Class 12.
Amtorg Trading Corporation, New York, N. Y. Matches. 271,418; Oct. 9. Class 9.
Anthony Brothers, Incorporated, also doing business as Biltmore Manufacturing Co., San Francisco, Calif. Knit underwear. 269,934; Oct. 9. Class 39.
Apt Novelty Co., Inc., New York, N. Y. Cellulose-acetate, metal, fabric, and parchment lamp shades. 270,067; Oct. 9. Class 34.
Arrow Brick Company, The, Knoxville, Tenn. Building brick. 270,817; Oct. 9. Class 12.
Arrow Playing Card Company, Chicago, Ill. Playing cards. 271,161; Oct. 9. Class 22.
Aseptic Products Co., Long Island City, N. Y. Manicure sets, nail files, absorbent cotton, etc. 270,568; Oct. 9. Class 44.
Auerbach, Maurice H., also doing business as Auerbach Chemical Company, San Francisco, Calif. Sterilizers, deodorizers, etc. 271,162; Oct. 9. Class 6.
Auto-Prime Pump Company, The, Cleveland, Ohio. Pumps and mechanical priming apparatus. 270,164; Oct. 9. Class 23.
Baker, Newton E., doing business as Hollywood Color Company, Los Angeles, Calif. Shoe and leather dressing. 269,571; Oct. 9. Class 4.
Barrett Company, The, New York, N. Y. Bituminous materials. 270,873; Oct. 9. Class 12.
Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mountings and parts thereof. 271,737; Oct. 9. Class 26.
Beardsley & Wolcott Mfg. Co., The, Hartford, Conn. Electric curling irons, electric cigar lighters, etc. 267,291; Oct. 9. Class 21.
Berg, Charles F., Portland, Oreg. Hosiery. 270,228; Oct. 9. Class 39.
Biltmore Manufacturing Co. (See Anthony Brothers, Incorporated.)
Blake Manufacturing Co., Springfield, Mass. Flash lights. 262,645; Oct. 9. Class 21.
Blanckertz, Rudolph, doing business as Heintze & Blanckertz, Berlin, Germany. Carving tools. 268,606; Oct. 9. Class 23.
Blumberg, Moses, & Sons Inc., New York, N. Y. Women's wearing apparel. 268,267; Oct. 9. Class 39.
Blumer, Robert, Falfurrias, Tex. Chickens, turkeys, ducks, eggs, etc. 268,906; Oct. 9. Class 46.
Bohemian Distributing Co. Inc., Los Angeles, Calif. Malt syrup. 269,508; Oct. 9. Class 46.
Böhme, H. T., A. G., Chemnitz, Germany. Chemical dye aids. 266,786; Oct. 9. Class 6.
Boy Togs Manufacturing Company, Dallas, Tex. One-piece overall union suits for boys. 269,937; Oct. 9. Class 39.
Boyce Extract Co., Brooklyn and New York, assignor to Fred Fear & Co., Brooklyn, N. Y. Fruit syrups. 253,135; Oct. 9. Class 45.
Breslin-Grifitt Carpet Company, New York, N. Y. Carpets and rugs. 270,822; Oct. 9. Class 42.
Breslin-Grifitt Carpet Company, New York, N. Y. Carpets and rugs. 270,824–5; Oct. 9. Class 42.
Breslin-Grifitt Carpet Company, New York, N. Y. Carpets and rugs. 270,827; Oct. 9. Class 42.
Brewerton Coal Co., Chicago, Ill. Coal. 268,843; Oct. 9. Class 1.
Brightfield, Lloyd O., doing business as "The Soda-Dent Company" assignor to The Soda-Dent Company, Baltimore, Md. Tooth paste or dentifrice. 256,807; Oct. 9. Class 6.
Bruder, Carl J., doing business as Bruder's Goulash Kitchen, Portland, Oreg. Canned goulash. 270,790; Oct. 9. Class 46.
Brüder Distributing Co. (See Cohn, Samuel A., & Bro.)
Burrows & Sanborn, Incorporated, Lynn, Mass. Ladies' hosiery. 263,854; Oct. 9. Class 39.
Cahn, Milton, Company, Inc., New York, N. Y. Face powder, talcum powder, rouges, etc. 260,161; Oct. 9. Class 6.
California Grape Products Co. Inc., Ukiah, Calif., and New York, N. Y. Grape syrup. 270,877; Oct. 9. Class 45.
Calumet Foundry & Machine Company, East Chicago, Ind. Metal castings. 269,633; Oct. 9. Class 14.
Carmi Manufacturing Company, Inc., Carmi, Ill., Men's underwear. 266,354; Oct. 9. Class 39.
Chain Belt Company, Milwaukee, Wis. Concrete mixers. 271,739; Oct. 9. Class 23.
Champion Radio Works, Inc., Danvers, Mass. Electron tubes. 269,462; Oct. 9. Class 21.
Chemische Fabrik Stockhausen & Cie., Krefeld, Germany. Dyes and dyestuffs, chemical products etc. 263,459; Oct. 9. Class 6.
Chicago Paint Works, Chicago, Ill. Ready-mixed outside paint. 229,158; Oct. 9. Class 16.
Chisholm-Moore Hoist Corporation, Cleveland, Ohio. Differential hoists. 270,572; Oct. 9. Class 23.
Chryson's Inc., Los Angeles, Calif. Greeting cards, wedding invitations, etc. 271,682; Oct. 9. Class 38.
Cleveland-Cliffs Iron Company, The, Cleveland, Ohio. Coal. 270,319–20; Oct. 9. Class 1.
Coast Fishing Company, Wilmington, Calif. Canned fish. 271,683; Oct. 9. Class 46.
Cohen, Arthur, Dress Corporation, New York, N. Y. Dresses. 270,280; Oct. 9. Class 39.
Cohn, Samuel A., & Bro., doing business as Brüder Distributing Co., Hazleton, Pa. Malt syrup. 271,021; Oct. 9. Class 46.
Colit Laboratories. (See Nazaroff, Alexander.)
Collins Medicine Company, Collins, Miss. Herb-root composition. 268,426; Oct. 9. Class 6.
Conn, Robert, Dunedin, New Zealand. Medicine. 270,668; Oct. 9. Class 6.
Consumers Butter Co., Inc., Minneapolis, Minn. Butter. 269,637; Oct. 9. Class 46.
Continental Fruit Packing Co., Limited, The, London, England. Canned fruits and canned vegetables. 271,022; Oct. 9. Class 46.
Cottage Canning Company, Mount Airy, N. C. Canned fruits and vegetables. 253,834; Oct. 9. Class 46.
Coty, Inc., Wilmington, Del., and New York, N. Y. Liquid preparation for the improvement and beautification of the skin. 271,168; Oct. 9. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cummins, Samuel, New York, N. Y. Soap. 243,644; Oct 9. Class 4.
Cutter Laboratory, The, Berkeley, Calif. Colloidal iron cacodylate. 270,956; Oct. 9. Class 6.
Davis Standard Bread Co., Incorporated, Los Angeles, Calif. Doughnuts. 271,685; Oct. 9. Class 46.
De La Montanya, Pierre, doing business as Alta Vista Wines Company, San Francisco, Calif. Wines. 266,981; Oct. 9. Class 47.
Devoe & Reynolds Co., Inc., New York, N. Y. Lacquers, paint enamels, varnishes, and mixed paints. 270,957; Oct. 9. Class 16.
Devoe & Reynolds Co., Inc., New York, N. Y. Lacquers, enamels, varnishes, and mixed paints. 270,958; Oct. 9. Class 16.
Doughnut Machine Corporation, New York, N. Y. Doughnut mixture. 268,854; Oct. 9. Class 46.
Drackett Chemical Company, The, Cincinnati, Ohio. Epsom salt. 270,960; Oct. 9. Class 6.
Eagle Pencil Company, New York, N. Y. Lead pencils, pencil-point protectors. 268,429; Oct. 9. Class 37.
Eastern Products Company, New York, N. Y. Gelatin, dessert powder, etc. 265,782; Oct. 9. Class 46.
Eastman Kodak Company, Rochester, N. Y. Combined card table and projection screen. 271,541; Oct. 9. Class 32.
Easy Oil Company. (See Kane, Joseph W.)
Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Electare Company, The, Chicago, Ill. Electrical combined heater and dryer, vacuum cleaners, etc. 269,281; Oct. 9. Class 21.
Elliott Varnish Co., Chicago, Ill. Varnish and paint enamels. 270,740; Oct. 9. Class 16.
Elliott Varnish Co., Chicago, Ill. Varnishes, varnish stains, and paint enamels. 270,741; Oct. 9. Class 16.
Emvailte Corporation, The. (See Vajda, Emery, assignor.)
Fear, Fred, & Co. (See Boyce Extract Co., assignor.)
Feibleman, L., & Co., Inc., New Orleans, La. Shirts, coats, suits, and dresses. 259,109; Oct. 9. Class 39.
Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 270,539; Oct. 9. Class 12.
Foege, John, jr., doing business as John Foege & Son, Richmond, Va. Cigars and cigarettes. 271,747; Oct. 9. Class 17.
Ford, J. B., Company, The, Wyandotte, Mich. Solvent clarifier. 268,537; Oct. 9. Class 6.
Fort Pitt Typewriter Company, Pittsburgh, Pa. Stencil paper. 271,380; Oct. 9. Class 37.
Fox Case Corporation, New York, N. Y. Motion pictures in which pictorial illustrations are synchronized with reproduction of sounds. 271,176; Oct. 9. Class 26.
Frederick Malt & Products Co. (See Lehnert, W. C.)
Fulmer & Gibbons, Philadelphia, Pa. Bracelets, brooches, bar pins, etc. 260,053; Oct. 9. Class 28.
Garneau & De Bruyn, Inc., New York, N. Y. Food products. 259,281; Oct. 9. Class 46.
Gemex Company, Newark, N. J. Watch bracelets. 271,029–31; Oct. 9. Class 28.
Gemex Company, Newark, N. J. Watch bracelets. 271,033–9; Oct. 9. Class 28.
Gemex Company, Newark, N. J. Watch bracelets. 271,043; Oct. 9. Class 28.
General Rub-Ros Company, Hialeah, Fla. Paints. 270,701; Oct. 9. Class 16.
Gerber Bros., Brooklyn, N. Y. Canned fruit, vegetables, spices, pickles, etc. 268,090; Oct. 9. Class 46.
Gerber & Co. Inc., New York, N. Y. Cheese. 270,585; Oct. 9. Class 46.
Germanow-Simon Machine Co., Rochester, N. Y. Watch crystals. 270,545; Oct. 9. Class 33.
Goulds Pumps, Incorporated, Seneca Falls, N. Y. Double-action piston pumps. 268,368; Oct. 9. Class 23.
Grayburg Oil Company, San Antonio, Tex. Illuminating oils, fuel oils, etc. 271,044; Oct. 9. Class 15.
Guest Neckwear Company, Inc., Rochester, N. Y. Silk mufflers and silk neckties. 254,036; Oct. 9. Class 39.
Gump, B. F., Co., Chicago, Ill. Blending and mixing machines. 259,548–9; Oct. 9. Class 23.
Gustin-Bacon Manufacturing Company, Kansas City, Mo. Radioantenna. 269,116; Oct. 9. Class 21.
H. E. B. Laboratory. (See Stall, Leo W.)
Haas-Baruch & Company, Los Angeles, Calif. Canned vegetables and fruits, chop suey, etc. 262,082; Oct. 9. Class 46.
Haberland Manufacturing Company, Allwood, N. J. Chemical preparation. 268,494–5; Oct. 9. Class 6.
Hanford Chemical Company, Hanford, Calif. Applicators for eyeglass cleaners. 266,535; Oct. 9. Class 29.
Hawley & Hoops, New York, N. Y. Candy. 271,045; Oct. 9. Class 46.
Heintze & Blanckertz. (See Blanckertz, Rudolph.)
Henbert Silk Co., New York, N. Y. Cloth linings for fur coats. 269,756; Oct. 9. Class 39.
Hermann, Samuel, doing business as Perfex Products Co., Philadelphia, Pa. Quick-cleaning fluid. 269,289; Oct. 9. Class 4.
Herron, Charles A., doing business as The Stomaid Laboratories, Wichita, Kans. Stomaid. 269,189; Oct. 9. Class 6.
Hickey-Freeman Co., Rochester, N. Y. Suits, topcoats, and overcoats. 270,425; Oct. 9. Class 39.
Hoepner Automatic Machinery Corp., The, Buffalo, N. Y. Automatic filling machinery. 261,712; Oct. 9. Class 23.
Hollywood Color Company. (See Baker, Newton E.)
Houbigant, Inc., New York, N. Y. Manicure preparations. 267,256; Oct. 9. Class 6.
Humble Oil & Refining Company, Houston, Tex. Gasoline and motor-fuel oils. 269,785–6; Oct. 9. Class 15.
Hunt & Moore, Inc., New Haven, Conn. Safety rear-end reflectors for motor vehicles. 265,435; Oct. 9. Class 19.
Ideal Bath Robe Co. Inc., Brooklyn, N. Y. Children's and infants' buntings and sacques. 243,704; Oct. 9. Class 39.
Ippolito, Tony, doing business as Union Bottling Works, Beaumont, Tex. Beverages. 262,640; Oct. 9. Class 45.
Ishihara, K., Company, also doing business as Ishihara Canning Co., San Francisco, Calif. Canned bamboo shoots. 271,810; Oct. 9. Class 46.
Isuan Corporation, The, Manila, P. I. Ginger ale and mineral water. 254,674; Oct. 9. Class 45.
Jackson, Elanora G., Swampscott, Mass. Candles. 268,735; Oct. 9. Class 46.
Jensen, Karl K., doing business as Jensen Radio Manufacturing Co., Oakland, Calif. Radio loud speakers. 270,428; Oct. 9. Class 21.
Johnson Motor Products Co. Inc., Chicago, Ill. Battery chargers. 240,915; Oct. 9. Class 21.
Kane, Joseph W., doing business as Easy Oil Company, Pittsburgh, Pa. Lubricating oils. 270,084; Oct. 9. Class 15.
Kaplan, Max, Port Chester, N. Y. Ophthalmic mountings, lenses, telescopes, etc. 269,242; Oct. 9. Class 26.
Keystone Laboratories, Memphis, Tenn. Face powder. 254,918; Oct. 9. Class 6.
King, E. W., Company, Bristol, Tenn. Work and dress shirts, overalls, trousers, etc. 270,250; Oct. 9. Class 39.
Kresge Department Store Corporation, Newark, N. J. Men's and boys' outer clothing. 269,964; Oct. 9. Class 39.
Lanman & Kemp, Inc., New York, N. Y. Liquid tonic. 260,848; Oct. 9. Class 6.
Leader, Benjamin, Chicago, Ill. Finger rings, ornamental pins, pendants, etc. 269,667; Oct. 9. Class 28.
Lehnert, W. C., doing business as Frederick Malt & Products Co., Baltimore, Md. Malt syrup. 271,132; Oct. 9. Class 46.
Le-Mul Mfg. Co., St. Paul, Minn. Containers. 262,720; Oct 9. Class 2.
Lewyn, Louis, Los Angeles, Calif. Motion pictures. 269,192; Oct 9. Class 26.
Luden's Inc., Reading, Pa. Candy. 271,702; Oct. 9, Class 46.
Lyon Battery Works, Louisville, Ky. Batteries and battery parts. 270,970; Oct. 9. Class 21.
M. & H. Block Co., New York, N. Y. Neckwear and mufflers, neckties, and collars. 268,672; Oct. 9. Class 39.
Martin Dennis Company, The, Newark, N. J. Cod-liver oil for mixing with chicken and cattle feed. 268,619; Oct. 9. Class 6.
McGuire, James E., Camden, N. J. Automobile top dressing. 270,999; Oct. 9. Class 4.
McIntosh Electrical Corporation, Chicago, Ill. Small high-frequency apparatus. 270,971; Oct. 9. Class 44.
McMillen Co., The, Fort Wayne, Ind. Poultry, dairy, and stock feeds. 271,703; Oct. 9. Class 46.
Mennel Milling Company, The, Toledo, Ohio. Wheat flour. 271,557; Oct. 9. Class 46.
Merchants Oil Co. (See Siemer, Henry J.)
Metal & Thermit Corporation, Carteret, N. J. Sodium antimonate, thermalin, and tin oxide. 271,192; Oct. 9, Class 6.
Moccasin Bushing Company, Chattanooga, Tenn. Self-oiling trolley wheels, bushings, etc. 270,776; Oct. 9, Class 21.
Monaderb Company. (See Trillo, Rocco.)
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse, No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Lotions, creams, and powders. 242,098; Oct. 9. Class 6.
Mutual Stores, Inc., Oakland, Calif. Chopped pickles and mayonnaise, relish spread, etc. 264,494; Oct. 9. Class 46.
Mutual Stores, Inc., Oakland, Calif. Toilet paper and paper napkins. 264,499; Oct. 9. Class 37.
Naamlooze Vennootschap International Perfumery Company, Amsterdam, Netherlands. Eau de cologne, bath salt, perfumery, etc. 268,380; Oct. 9. Class 6.
Nazaroff, Alexander, doing business as Colit Laboratories, New York, N. Y. Liniments. 269,598; Oct. 9. Class 6.
Newnamel Inc., doing business as Newnamel Manufacturing Co., New Orleans, La. Cleaning preparation. 269,199; Oct. 9. Class 16.
Nokal Co., Cleveland, Ohio. Remedy for the treatment of corns and callouses. 271,141; Oct. 9. Class 6.
Norton and Gregory, Limited, London, England. Sensitized photograph materials. 270,438; Oct. 9. Class 26.
Odor-Nox Chemical Co., Chicago, Ill. Body deodorant. 270,142; Oct. 9. Class 6.
Odorono Company, The, Cincinnati, Ohio. Deodorant powder. 269,977; Oct. 9. Class 6.

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Odorono Company, The, Cincinnati, Ohio. Depilatory. 269,978; Oct. 9. Class 6.
Old Ben Coal Corporation, Chicago, Ill. Coal. 264,184; Oct. 9. Class 1.
Omega Chemical Company, The, New York, N. Y. Preparation for the treatment of rheumatism, etc. 263,664–5; Oct. 9. Class 6.
Pansche Airbrush Co., Chicago, Ill. Air brushes, parts of air brushes, etc. 252,216; Oct. 9. Class 23.
Pacific Coast Syrup Co. (See Tea Garden Products Co.)
Page Milling Co., The, Luray, Va. Floors. 270,198; Oct. 9. Class 46.
Paint Engineers, Inc., Chicago, Ill. Paints, lacquers, varnish, etc. 265,399; Oct. 9. Class 16.
Parker, Frederick, doing business as Usatex Manufacturing Company, Houston, Tex. Mattresses. 265,924; Oct. 9. Class 32.
Pennsylvania Gasoline Drill Company. Philadelphia, Pa. Rock, drills, power hammers, stump powder drills, etc. 270,441; Oct. 9. Class 23.
Perfecto Manufacturing Co., Chicago, Ill. Penetrating oil. 269,000; Oct. 9. Class 15.
Perfex Products Co. (See Hermann, Samuel.)
Pexel Co., The, Chicago, Ill. Unflavored prepared fruit pectin. 271,194; Oct. 9. Class 46.
Philadelphia Carpet Company, Incorporated, Philadelphia, Pa. Textile rugs and carpets. 270,201; Oct. 9. Class 42.
Phillips-Jones Corporation, New York, N. Y. Underwear and pajamas. 270,390; Oct. 9. Class 39.
Photogenic Machine Company, The, Youngstown, Ohio. Arc lamps. 269,316; Oct. 9. Class 44.
Pitman-Moore Company, Indianapolis, Ind. Preparation for the treatment of achylia gastrica, etc. 271,081; Oct. 9. Class 6.
Pittsburg Elevator Co., The, Pittsburg, Kans. Mixed feed, barley, chops, etc. 268,936; Oct. 9. Class 46.
Plomar Products Corp., Pittsburgh, Pa. Olive-oil soap and shaving cream in the nature of soap. 267,718; Oct. 9. Class 4.
Popular Aviation Publishing Company, Chicago, Ill. Monthly magazines. 271,566; Oct. 9. Class 38.
Premier Grand Piano Corporation, New York, N. Y. Radio receiving sets, etc. 269,429; Oct. 9. Class 21.
Press Publishing Company, New York, N. Y. Title for a comic strip. 271,820; Oct. 9. Class 38.
Puritan Clothing Company, New York, N. Y. Coats. 270,505; Oct. 9. Class 39.
R. U. V. Company, Inc., The, New York, N. Y. Advertising signs. 270,264; Oct. 9. Class 50.
Reliable Storage Battery & Plates Mfg. Co., The, Chicago, Ill. Electric storage batteries and parts thereof. 271,199; Oct. 9. Class 21.
Republic Paint & Varnish Works, Chicago, Ill. Varnishes, varnish stains, and paint enamels. 258,494; Oct. 9. Class 16.
Reynolds & Reynolds Company, The, Dayton, Ohio. Manifold forms. 271,360; Oct. 9. Class 37.
Richards, Dr., Dyspepsia Tablet Association, Norwalk, Conn. Sanitary napkins, surgical dressings, and bandages. 270,888; Oct. 9. Class 44.
Richardson, Willie B., Los Angeles, Calif. Cigars, cigarettes, etc. 270,782; Oct. 9. Class 17.
Richfield Oil Company of California, Los Angeles, Calif. Petroleum products. 269,550; Oct. 9. Class 15.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. 259,079; Oct. 9. Class 46.
Roe, John, & Fred C. Campbell, Seattle, Wash. Construction materials. 235,276; Oct. 9. Class 12.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Aluminum cleanser, scouring powder, steel wool, and soap. 266,619; Oct. 9. Class 4.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Fruit preserver, vegetable fat, honey, etc. 266,623; Oct. 9. Class 46.
Russell, John, Cutlery Company, Turners Falls, Mass. Household and table cutlery. 270,697; Oct. 9. Class 23.
Russell, John, Cutlery Company, Turners Falls, Mass. Paring knives and grapefruit knives. 271,699; Oct. 9. Class 23.
Sack, Rud., Leipzig, Germany. Agricultural implements. 271,625; Oct. 9. Class 23.
St. Meinrad Abbey, St. Meinrad, Ind. Monthly magazine. 271,633; Oct. 9. Class 38.
Sapolin Co. Inc., New York, N. Y. Gold glaze. 265,576; Oct. 9. Class 16.
Sapolin Co. Inc., New York, N. Y. Aluminum glaze. 265,577; Oct. 9. Class 16.
Schanzenbach, J. & Co., Inc., New York, N. Y. Hot-oil scalp treatment. 271,088; Oct. 9. Class 6.
Schlesinger, B. F., & Sons, Inc., New York, N. Y. Dresses. 266,484; Oct. 9. Class 39.
Schulenberg, B. M., doing business as Swiss-Snow Laboratories, Chicago, Ill. Skin cleanser and tissue builder. 270,862; Oct. 9. Class 6.
Schwietzke, Gottlieb, doing business as Sichelschmidt & Co., Dusseldorf-Morsembroich, Germany. Dental burs, cutters, drills, etc. 262,972; Oct. 9. Class 44.
Sealed Containers Corporation, New York, N. Y. Paper bottles. 270,305; Oct. 9. Class 2.
Seaport Coffee Co., Inc., Houston, Tex. Coffee. 271,711; Oct. 9. Class 46.
Shaw, Stanley W., doing business as Shaw Manufacturing Company, Galesburg, Kans. Tractors. 270,654; Oct. 9. Class 23.
Sheffield Bronze Powder Co., Cleveland, Ohio. Bronze powder. 271,457; Oct. 9. Class 16.
Sherwood Bros. Inc., Baltimore, Md. Gasoline, lubricating oils, and lubricating greases. 265,860; Oct. 9. Class 15.
Sichelschmidt & Co. (See Schwietzke, Gottlieb.)
Siemer, Henry J., doing business as Merchants Oil Co., Cincinnati, Ohio. Lubricating oil. 268,116; Oct. 9. Class 15.
Sinclair, John, Limited, Newcastle-on-Tyne, England. Smoking tobacco, cigarettes, and cigars. 271,575; Oct. 9. Class 17.
Soc. Coop. "Ostendia," Ostende, Belgium. Preserved and canned fish. 268,320; Oct. 9. Class 46.
Soda-Dent Company, The. (See Brightfield, Lloyd O.)
Spalding, A. G., & Bros., New York, N. Y. Roller skates. 269,611; Oct. 9. Class 22.
Sparkling Beverage Co., Detroit, Mich. Beverages and syrups and extracts for making the same. 269,866; Oct. 9. Class 45.
Spiegel, Moe, Middletown, N. Y. Insecticide and fungicide. 270,521; Oct. 9. Class 6.
Springfield Leather Products Company, The, Springfield, Ohio. Bridge cases and playing-card cases and playing cards. 270,680; Oct. 9. Class 22.
Stall, Leo W., also doing business as H. E. B. Laboratory, Buffalo, N. Y. Cough medicine. 269,696; Oct. 9. Class 6.
Standard Accident Insurance Company, Detroit, Mich. Booklets. 271,664; Oct. 9. Class 38.
Stein, Hall Manufacturing Company, Chicago, Ill. Chocolate coating and centers. 271,715; Oct. 9. Class 46.
Stomaid Laboratories, The. (See Herron, Charles A.)
Stone, Anna, doing business as Max Stone, Corona, N. Y. Work shirts. 270,730; Oct. 9. Class 39.
Strutwear Knitting Company, Minneapolis, Minn. Hosiery and knit and woven underwear. 268,249–50; Oct. 9. Class 39.
Swiss-Snow Laboratories. (See Schulenberg, B. M.)
Taylor & Co., Inc., Newark, N. J. Watch bracelets, lorgnette chains, etc. 269,995; Oct. 9. Class 28.
Tea Garden Products Co., formerly doing business as Pacific Coast Syrup Co., San Francisco, Calif. Honey. 269,809; Oct. 9. Class 46.
Television Limited, London, England. Apparatus for use in transmitting views, scenes, or images to a distance by telegraphy. 258,505; Oct. 9. Class 26.
Theta Dry Stencil Corporation, The, New York, N. Y. Dry stencils. 267,519; Oct. 9. Class 37.
Theonett & Co., Inc., Chicago, Ill. Beverages and syrups and extracts for making the same. 271,324; Oct. 9. Class 45.
Trillo, Rocco, doing business as Monaderb Company, North Merchantville, N. J. Mixture of dried and coarsely-ground roots, herbs, and barks of medicinal value. 269,211; Oct. 9. Class 6.
Trust Oil Company, Perth Amboy, N. J. Belt dressing. 269,998; Oct. 9. Class 4.
Twentieth Century Rayon Textiles, Inc., New York, N. Y. Knitted fabrics. 270,899; Oct. 9. Class 42.
Union Bottling Works. (See Ippolito, Tony.)
United Bi-Products Company, Kansas City, Mo. Pig and hog feed. 263,187; Oct. 9. Class 46.
Universal Overalls Company, Chicago, Ill. Men's overalls. 270,359; Oct. 9. Class 39.
Upjohn Company, The, Kalamazoo, Mich. Debuffering milk modifier. 271,516; Oct. 9. Class 6.
Usatex Manufacturing Company. (See Parker, Frederick.)
Vajda, Emery, assignor to The Emvailte Corporation, Cleveland, Ohio. Lights for inserting in body cavities. 263,294; Oct. 9. Class 44.
Van Bokkelen, Libertus, Buenos Aires, Argentina. Beverages. 263,111; Oct. 9. Class 45.
Vickers Petroleum Company, The, Wichita, Kans. Gasoline. 269,212–13; Oct. 9. Class 15.
Viking Tool and Machine Co., Inc., The, Brooklyn, N. Y. Stop counters, plain revolution counters, etc. 271,670; Oct. 9. Class 26.
Ward Manufacturing Co., West Plains, Mo. Traveling bags, bill folds, and kit bags. 254,314; Oct. 9. Class 3.
Warren, W., Thread Works, Westfield, Mass. Spool cotton. 271,096; Oct. 9. Class 43.
Washington Growers Packing Corporation, also doing business as Washington Canners Co-Operative, Vancouver, Wash. Canned fruits. 271,220; Oct. 9. Class 46.
Weil & Durrsé, New York, N. Y. Tablecloths, napkins, towels, etc. 270,808; Oct. 9. Class 42.
Wesley, Edward, & Company, Cincinnati, Ohio. Haircombing liquid. 266,501; Oct. 9. Class 6.
Western Shade Cloth Company, The, Chicago, Ill. Window shades. 271,520; Oct. 9. Class 32.
Western Shade Cloth Company, The, Chicago, Ill. Window shades and shade rollers. 271,523; Oct. 9. Class 32.

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Western Shade Cloth Company, The, Chicago, Ill. Window shades and shade rollers. 271,526; Oct. 9. Class 32.
Western Stories Publishing Corp., New York, N. Y. Quarterly publication. 271,672; Oct. 9. Class 38.
White Swan Shirt Company, Chicago, Ill. Shirts. 269,010; Oct. 9. Class 39.
Whiting-Adams Company, Boston, Mass. Brushes. 270,405; Oct. 9. Class 29.
Wiener & Katz, New York, N. Y. Coats, vests, trousers, etc. 270,362; Oct. 9. Class 39.
Yale Electric Corporation, Jersey City, N. J. Electric lanterns, flash lights, electric candles, etc. 270,564; Oct. 9. Class 21.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 3.

Hames and parts thereof, etc. U. S. Hame Company. 247,973; Oct. 9; Serial No. 259,031; published Feb. 7, 1928.

CLASS 4.

Cleaner for glass, windows, etc. C. S. Dade. 247,857; Oct. 9; Serial No. 267,540; published July 24, 1928.
Cleaner, Linotype-matrix. W. Dunklin. 247,917; Oct. 9; Serial No. 266,719; published July 31, 1928.
Cleaning and polishing material, Tiffany & Company. 247,863; Oct. 9; Serial No. 267,099; published July 24, 1928.
Cleaning preparation, Dry-. A. G. Maas. 247,875; Oct. 9; Serial No. 265,913; published July 31, 1928.
Cleanser, Household. M. O. Wilkins Corporation. 247,978; Oct. 9; Serial No. 256,151; published July 31, 1928.
Cleanser, Liquid. J. Di Clo. 247,984; Oct. 9; Serial No. 252,257; published July 31, 1928.
Cleansing powder for artificial teeth. B. T. Babbitt, Inc. 247,918; Oct. 9; Serial No. 266,701; published July 31, 1928.
Powder to be dissolved in water for use in cleaning, etc. J. B. McComb. 247,851; Oct. 9; Serial No. 267,898; published July 24, 1928.
Soap. Colgate & Company. 247,861; Oct. 9; Serial No. 267,241; published July 24, 1928.
Soap. Palmolive-Peet Company. 247,858; Oct. 9; Serial No. 267,505; published July 24, 1928.
Soap. Wiggins Chemical Co. 247,979; Oct. 9; Serial No. 250,065; published Feb. 14, 1928.
Soap compounds. Riverside Manufacturing Company. 247,859; Oct. 9; Serial No. 267,276; published July 24, 1928.
Soap, mechanic's soap, metal polish, etc., Powdered. Federal Distributors, Inc. 247,895; Oct. 9; Serial No. 264,511; published July 31, 1928.
Soaps. Marie Earle, Inc. 247,886; Oct. 9; Serial No. 267,008; published July 24, 1928.

CLASS 5.

Adhesive paste, glue, and mucilage. G. Wagner. 247,903; Oct. 9; Serial No. 263,943; published July 24, 1928.

CLASS 6.

Acid, ammonia, aromatic spirits, etc., Carbolic. Northwestern Drug Company. 248,007; Oct. 9.
Ampoules. P. Aubry. 248,003; Oct. 9.
Cathartic pills. Blackburn Products Company. 72,445; renewed Jan. 26, 1929.
Lanterns, Railway-signal electric. Peter Gray & Sons Inc. 248,008; Oct. 9.
Remedies for asthma, catarrh, etc. Peek & Velsor. 71,212; renewed Nov. 10, 1928.
Remedy for colds, throat affections, etc. Brown Medicine Co. 31,292; renewed Feb. 22, 1928.
Tonic, General. C. Lain. 247,891; Oct. 9; Serial No. 264,690; published July 17, 1928.

CLASS 10.

Fertilizer. Alliance Fertilizer Company. 248,005; Oct. 9.

CLASS 11.

Typewriting ribbons, carbon paper, and inking pads. G. Wagner. 247,845; Oct. 9; Serial No. 268,199; published July 31, 1928.

CLASS 13.

Bands, stays, open seals, and seals. Acme Steel Company. 247,878; Oct. 9; Serial No. 265,765; published July 31, 1928.
Faucets, valves, nozzles, and connections, Mixing. W. L. Deming. 247,848; Oct. 9; Serial No. 268,146; published July 31, 1928.
Hinges, screen hangers, basps, etc. Stanley Works. 247,896; Oct. 9; Serial No. 264,483; published July 24, 1928.
Screws, bolts, and studs. Rochester Machine Screw Company. 248,006; Oct. 9.

CLASS 14.

Alloys or cutting metal. Firth-Sterling Steel Company. 247,943–4; Oct. 9; Serial Nos. 267,356–7; published July 24, 1928.

CLASS 15.

Gasoline. Ashland Refining Company. 247,817–8; Oct. 9; Serial Nos. 266,183–4; published July 24, 1928.
Gasoline. Ashland Refining Company. 247,840; Oct. 9; Serial No. 268,132; published July 24, 1928.
Gasoline. Cities Service Oil Company. 247,820; Oct. 9; Serial No. 265 952; published July 24, 1928.
Gasoline and other fuel oils and lubricating oils and greases. Bar-Stone Oil Company. 247,952; Oct. 9; Serial No. 266,908; published July 24, 1928.
Oil, Fuel. American Coalinoil Corporation. 247,939; Oct. 9; Serial No. 254,119; published July 17, 1928.
Oil, Motor-lubricating. Beacon Oil Company (Inc.). 247,825; Oct. 9; Serial No. 265,087; published July 24, 1928.
Oils and greases, Lubricating. Gun-Fil Corporation. 247,833; Oct. 9; Serial No. 261,959; published July 24, 1928.
Oils, Lubricating. G. F. Rose. 247,981; Oct. 9; Serial No. 253,771; published June 5, 1928.
Oils, Lubricating. W. R. Woelk. 247,828; Oct. 9; Serial No. 264,627; published July 24, 1928.
Petroleum products. Western Oil & Refining Company. 247,931; Oct. 9; Serial No. 260,301; published July 24, 1928.

CLASS 16.

Enamel and oil paint. James Manufacturing Company. 247,907; Oct. 9; Serial No. 267,049; published July 24, 1928.
Enamels and varnishes, Paint. Great Lakes Varnish Work, Inc. 247,879; Oct. 9; Serial No. 265 537; published July 24, 1928.
Enamels, lacquer enamels, lacquers, etc., Paint. Peninsular Paint and Varnish Company. 247,900; Oct. 9; Serial No. 264,190; published July 24, 1928.
Lacquers. S. C. Johnson & Son. 247,965; Oct. 9; Serial No. 266,378; published July 24, 1928.
Paint, barn paint, interior enamel, etc., House. R. J. Davis. 247,893; Oct. 9; Serial No. 264,568; published July 31, 1928.
Paint, colored enamels, lacquers, etc., House. Ohio Varnish Company. 247,959; Oct. 9; Serial No. 266,553; published July 24, 1928.
Paint, Metallic. C and H Products Corporation. 247,881; Oct. 9; Serial No. 265,318; published July 31, 1928.
Polish. D. M. Yorburg. 247,880; Oct. 9; Serial No. 265,458; published July 24, 1928.
Polish, Automobile and furniture. Standard Drug Company. 247,873; Oct. 9; Serial No. 266,107; published July 31, 1928.
Sizing compositions, Painters'. Hervé, Hervé & Hervé. 247,919; Oct. 9; Serial No. 266,662; published July 31, 1928.
Stain, automobile polish, etc., Shingle. R. W. Bowler. 247,890; Oct. 9; Serial No. 264,865; published July 31, 1928.

CLASS 17.

Cigars. Petri Cigar Co. Inc. 247,894; Oct. 9; Serial No. 264,531; published July 31, 1928.
Cigars. F. G. Schmitt. 72,204; renewed Jan. 5, 1929.

CLASS 19.

Airplanes. American Eagle Aircraft Corporation. 247,854; Oct. 9; Serial No. 267,824; published July 31, 1928.
Airplanes and structural parts. Boeing Airplane Company. 247,992; Oct. 9; Serial No. 242,945; published July 31, 1928.
Automobile awnings. Hill Manufacturing Company. 247,850; Oct. 9; Serial No. 268,037; published July 31, 1928.
Automobiles. Overland Automobile Company. 72,436; renewed Jan. 26, 1929.
Automobiles and their structural parts. Amplex Manufacturing Company. 247,898; Oct. 9; Serial No. 264,346; published July 31, 1928.

CLASS 21.

Alarms and alarm systems, Electric burglar. P. C. Butte. 247,938; Oct. 9; Serial No. 255,793; published Jan. 10, 1928.
Batteries. Charles Zimmerman. 247,824; Oct. 9; Serial No. 265,352; published July 24, 1928.

Batteries, flash-light batteries, etc., Electric. Bright Star Battery Co. 247,941; Oct. 9; Serial No. 250,595; published Sept. 20, 1927.
Conduit fittings, outlet boxes, and covers. Rattan Manufacturing Co. 247,948; Oct. 9; Serial No. 267,011; published July 31, 1928.
Drills, Portable electric. Stanley Works. 247,955; Oct. 9; Serial No. 266,835; published July 24, 1928.
Electric pick-up device. Phono Link Co. 247,821; Oct. 9; Serial No. 265,496; published July 24, 1928.
Electrical insect traps or electrical exterminators. Insect Electrocutor Company. 247,946; Oct. 9; Serial No. 267,124; published July 24, 1928.
Electrical reproducing and amplifying apparatus for phonograph records. Orchestraphone Company. 247,832; Oct. 9; Serial No. 262,252; published July 24, 1928.
Electrical supplies. Crouse-Hinds Company. 71,992; renewed Dec. 29, 1928.
Electrical switches. Absolute Con-Tac-Tor Corporation. 247,822; Oct. 9; Serial No. 265,419; published July 24, 1928.
Furnaces, Electrical industrial. James H. Herron Company. 247,819; Oct. 9; Serial No. 266,029; published July 24, 1928.
Radio receiving sets, radio loud speakers, etc. Wellston Radio Corporation. 248,000; Oct. 9.

CLASS 22.

Bait, Artificial. W. M. Jordan. 247,963–4; Oct. 9; Serial Nos. 266,379–80; published July 24, 1928.
Baseball bats. Hanna Manufacturing Company. 247,853; Oct. 9; Serial No. 267,841; published July 24, 1928.
Baseball bats. Hillerich & Bradsby Co. 247,856; Oct. 9; Serial No. 267,577; published July 24, 1928.
Baseball gloves and mitts. Wilson-Western Sporting Goods Company. 247,884; Oct. 9; Serial No. 265,161; published July 24, 1928.
Cards, Playing. M. A. Blask. 247,877; Oct. 9; Serial No. 265,776; published July 24, 1928.
Dolls. Geo. Borgfeldt & Co. 247,967; Oct. 9; Serial No. 260,795; published July 24, 1928.
Dolls. K. Knudsen. 248,002; Oct. 9.
Fishing rods. Montague Rod and Reel Company. 247,925–9; Oct. 9; Serial Nos. 260,834–8; published July 24, 1928.
Fishing rods. Montague Rod and Reel Company. 247,930; Oct. 9; Serial No. 260,833; published July 31, 1928.
Game apparatus. Advance Machine Company. 247,922; Oct. 9; Serial No. 266,571; published July 24, 1928.
Golf bags. Playgolf, Inc. 247,874; Oct. 9; Serial No. 266,095; published July 24, 1928.
Golf balls. Carson Pirie Scott & Co. 247,838; Oct. 9; Serial No. 268 021; published July 31, 1928.
Golf clubs. R. H. Macy & Co. 247,844; Oct. 9; Serial No. 268,505; published July 31, 1928.
Golf clubs, golf balls, golf bags, and golf tees. Kroydon Company. 247,816; Oct. 9; Serial No. 266,205; published July 31, 1928.
Golf-putting practice device. Des Moines Wood Products Company. 247,827; Oct. 9; Serial No. 264,872; published July 31, 1928.
Puzzles, Educational numerical. M. C. Larsen. 247,900; Oct. 9; Serial No. 263,410; published July 24, 1928.
Skates, Roller. Kokomo Stamped Metal Co. 247,972; Oct. 9; Serial No. 259,412; published July 24, 1928.
Skis, toboggans, hockey sticks, golf clubs, etc. Northland Ski Manufacturing Co. 247,995; Oct. 9; Serial No. 211,865; published July 24, 1928.
Sleds, Coaster. Fenn Manufacturing Company. 247,836; Oct. 9; Serial No. 267,648; published July 31, 1928.
Toy guns, felt-nose bullets, and other projectiles therefor, and targets used therewith. Deeks Manufacturing Company. 247,843; Oct. 9; Serial No. 268,215; published July 31, 1928.
Toy vehicles. W. T. Watson. 247,897; Oct. 9; Serial No. 264,398; published July 24, 1928.
Toy wagons. B-I Trade Builders. 247,936; Oct. 9; Serial No. 256,708; published July 31, 1928.

CLASS 23.

Cans, and swill carriers and carrier tracking, etc., Feed, litter, milk. James Manufacturing Company. 247,864; Oct. 9; Serial No. 267,056; published July 31, 1928.
Gumming machines, roll-gumming machines, box-stripping machines, etc. New Jersey Machine Corporation. 247,909; Oct. 9; Serial No. 266,945; published July 31, 1928.
Shovels, spades, and scoops. Ames Shovel & Tool Company. 247,872; Oct. 9; Serial No. 266,234; published July 31, 1928.
Spools for typewriters. Carl Fr. Brauer G. m. b. H. 247,901; Oct. 9; Serial No. 264,136; published July 31, 1928.
Vending machines. Remington Arms Company. 247,982; Oct. 9; Serial No. 253,162; published July 31, 1928.

CLASS 24.

Laundry and dry-cleaning machinery and appliances. American Laundry Machinery Company. 247,883; Oct. 9; Serial No. 265,182; published July 31, 1928.

CLASS 25.

Seals. E. J. Brooks and Company. 247,916; Oct. 9; Serial No. 266,044; published July 31, 1928.

CLASS 26.

Regulators, Thermostatically-controlled heat. Thermatrol Manufacturing Co. 247,905; Oct. 9; Serial No. 263,793; published July 31, 1928.

CLASS 27.

Watch movements, watchcases, watch parts, and watches. Viatte & Guenin. 247,958; Oct. 9; Serial No. 266,568; published July 24, 1928.
Watches and clocks. Tiffany & Company. 247,837; Oct. 9; Serial No. 268,005; published July 31, 1928.
Watches and watchcases. South Bend Watch Co. 247,815; Oct. 9; Serial No. 266,487; published July 31, 1928.
Watches and watchcases. South Bend Watch Co. 247,815; Oct. 9; Serial No. 266,487; published July 24, 1928.
Watches and watchcases. South Bend Watch Co. 247,960–1; Oct. 9; Serial Nos. 266,491–2; published July 24, 1928.
Watches and watchcases. South Bend Watch Co. 247,962; Oct. 9; Serial No. 266,489; published July 24, 1928.
Watches, watchcases, etc. H. Epstein. 247,835; Oct. 9; Serial No. 267,542; published July 31, 1928.

CLASS 28.

Badges, lapel buttons, etc., Fraternity. Sigma Sigma Sigma. 247,942; Oct. 9; Serial No. 249,241; published July 24, 1928.
Bracelets, brooches, pins, etc. Arnold, Ochs Co. 247,957; Oct. 9; Serial No. 266,638; published July 24, 1928.
Jewelry. Corbett & Bertolone, Inc. 247,945; Oct. 9; Serial No. 267,185; published July 24, 1928.
Jewelry. Staiger & Sons. 247,933; Oct. 9; Serial No. 260,147; published July 24, 1928.
Rings, brooches, bar pins, etc., Platinum. A. W. Forman. 247,834; Oct. 9; Serial No. 267,489; published July 31, 1928.
Rings, Finger. I. Behrstock. 247,940; Oct. 9; Serial No. 250,832; published Sept. 6, 1927.
Rings, Finger. Melms Manufacturing Co. 247,923; Oct. 9; Serial No. 267,436; published July 31, 1928.
Silver flatware. Oneida Community, Limited. 247,935; Oct. 9; Serial No. 257,023; published July 24, 1928.
Silver-plated flatware, hollow ware, and cutlery. Oneida Community Limited. 247,949; Oct. 9; Serial No. 267,008; published July 31, 1928.
Stones and jewelry, Precious. Powers & Mayer, Inc. 247,997; Oct. 9.

CLASS 29.

Brushes, Shaving. Miles Bros. & Co. Inc. 247,826; Oct. 9; Serial No. 265,056; published July 24, 1928.
Toothbrush. E. R. Squibb & Sons. 247,842; Oct. 9; Serial No. 268,177; published July 24, 1928.

CLASS 32.

Trays of sheet metal, Ledger card. Yawman and Erbe Mfg. Co. 247,846; Oct. 9; Serial No. 268,198; published July 31, 1928.

CLASS 34.

Deflector and adjustable louver window ventilators and parts thereof. F. Ehrsam. 247,876; Oct. 9; Serial No. 265,833; published July 31, 1928.
Heating apparatus for use in the industrial arts. Surface Combustion Company. 247,915; Oct. 9; Serial No. 266,767; published July 31, 1928.
Ventilators, brooder stoves, etc., Metal gravity roof. James Manufacturing Company. 247,865; Oct. 9; Serial No. 267,052; published July 31, 1928.

CLASS 35.

Belting, nonmetallic tires, etc. Safety glass and Xetal Products, Limited. 247,987; Oct. 9; Serial No. 249,928; published July 24, 1928.

CLASS 36.

Musical instruments and parts thereof, Stringed. Bee Jay Products Co. 247,937; Oct. 9; Serial No. 255,836; published July 24, 1928.
Phonographs. Orchestraphone Company. 247,831; Oct. 9; Serial No. 262,253; published July 24, 1928.
Reeds for clarinets, oboes, etc. Simson & Frey, Inc. 247,953; Oct. 9; Serial No. 266,892; published July 24, 1928.

CLASS 37.

Paper, Toilet. Capital Paper Company. 247,956; Oct. 9; Serial No. 266,714; published July 31, 1928.
Stereotype mats. C. F. Burgess Laboratories, Inc. 247,924; Oct. 9; Serial No. 267,404; published July 31, 1928.
Tablets, composition books, etc., Pencil. J. C. Penney Company. 247,950; Oct. 9; Serial No. 266,949; published July 31, 1928.
Tablets, composition books, etc., Writing. T. J. Mitchell. 247,830; Oct. 9; Serial No. 263,172; published July 31, 1928.

CLASS 38.

Chart for illustrating household expenditures. F. A. Holtz. 247,892; Oct. 9; Serial No. 264,686; published July 31, 1928.

Charts, diagrams, textbooks, etc. Natural Eyesight Institute Inc. 247,889; Oct. 9; Serial No. 264,898; published July 31, 1928.
Coupon books and coupons. Publix Theatres Corporation. 247,990; Oct. 9; Serial No. 248,928; published July 31, 1928.
Magazine supplement. Jacobsen Publishing Company. 247,908; Oct. 9; Serial No. 266,995; published July 31, 1928.
Magazines and magazine sections. Jacobsen Publishing Company. 247,966; Oct. 9; Serial No. 266,377; published July 31, 1928.
Periodical. Industrial Executive, Inc. 247,860; Oct. 9; Serial No. 267,257; published July 31, 1928.
Plans and specifications for farm buildings. James Manufacturing Company. 247,866; Oct. 9; Serial No. 267,051; published July 24, 1928.

CLASS 39.

Clothing. Lebanon Mill Co. 71,529; renewed Dec. 1, 1928.

CLASS 44.

Arch supports. School Mfg. Co. Inc. 247,829; Oct. 9; Serial No. 264,535; published July 31, 1928.
Bottles, Baby or nursing. Hygeia Nursing Bottle Company. 247,867; Oct. 9; Serial No. 266,376; published July 24, 1928.
Chiropractic adjusting tables. C. H. Jones. 247,934; Oct. 9; Serial No. 259,630; published Mar. 20, 1928.
Elastic stockings. William M. Elsen Company. 247,868; Oct. 9; Serial No. 266,364; published July 24, 1928.
Hair-waving machines, protectors, and permanent-waving pads for use therewith. Pacific Hair Goods Co. 247,932; Oct. 9; Serial No. 260,235; published July 31, 1928.
Massage instruments, Vibrating. Andrews Crane Corporation. 247,947; Oct. 9; Serial No. 267,108; published July 31, 1928.
Napkins, Sanitary. John Wanamaker Philadelphia. 247,847; Oct. 9; Serial No. 268,191; published July 24, 1928.
Prophylactic rubber articles. L. Hilsenbeck, Inc. 247,841; Oct. 9; Serial No. 268,157; published July 31, 1928.
Prophylactic rubber articles. A. G. Vining. 247,885; Oct. 9; Serial No. 265,178; published July 24, 1928.
Rectal analgesia accessory sets. Eli Lilly and Company. 247,839; Oct. 9; Serial No. 268,044; published July 31, 1928.
Scissors, corn razors, nail nippers, etc., Nail and cuticle. J. A. Henckels. 247,951; Oct. 9; Serial No. 266,932; published July 31, 1928.
Surgical elastic stockings, surgical belts, etc. Frank W. Gorse Co. 247,823; Oct. 9; Serial No. 265,380; published July 31, 1928.
Thermometers, Clinical. R. F. Corp. 247,912; Oct. 9; Serial No. 266,883; published July 24, 1928.
Thermometers, Clinical. R. F. Corp. 247,934; Oct. 9; Serial No. 266,882; published July 31, 1928.
Waving machines and accessories and equipment therefor, Permanent. Yvette Co. 247,870; Oct. 9; Serial No. 266,293; published July 24, 1928.

CLASS 45.

Beverages. Supreme Beverage Co. 247,913; Oct. 9; Serial No. 266,837; published July 31, 1928.

CLASS 46.

Bread. Junge Baking Company. 247,849; Oct. 9; Serial No. 268,042; published July 24, 1928.
Cake. Continental Baking Company. 247,986; Oct. 9; Serial No. 250,679; published July 24, 1928.
Cakes and cookies. Loose-Wiles Biscuit Company. 247,852; Oct. 9; Serial No. 267,844; published July 24, 1928.
Candies. A. Bromberg. 247,989; Oct. 9; Serial No. 248,985; published Feb. 14, 1928.
Candy. Helt-Miller-Lau Company. 247,970; Oct. 9; Serial No. 259,551; published July 31 1928.
Canned crab meat. S. Yamate. 247,871; Oct. 9; Serial No. 266 291; published July 31, 1928.
Canned fruits, canned vegetables, etc. J. S. Brown Mercantile Company. 248,001; Oct. 9.
Canned fruits, canned vegetables, etc. New York Canners, Inc. 247,985; Oct. 9; Serial No. 251,236; published July 24, 1928.
Canned oysters. A. Booth and Company. 71,364; renewed Nov. 24, 1928.
Canned vegetables. Sunrich Canneries. 247,882; Oct. 9; Serial No. 265,303; published July 31, 1928.
Canned vegetables, fruits, roasted coffee, etc. Montgomery Ward & Co. Incorporated. 247,974; Oct. 9; Serial No. 258,644; published July 24, 1928.
Chocolate, Sweet milk. W. H. Baker, Inc. 248,004; Oct. 9.
Coffee, Blended. Woolson Spice Company. 72,077; renewed Dec. 29, 1928.
Coffee, tea, flavoring extracts and spices. E. R. Webster. 71,567; renewed Dec. 1, 1928.
Confection, Frozen. J. B. Carter. 247,983; Oct. 9; Serial No. 253,187; published June 12, 1928.
Cookies. C. G. Johnston & Sons. 247,869; Oct. 9; Serial No. 266,324; published July 24, 1928.
Feed. Universal Mills. 247,862; Oct. 9; Serial No. 267,220; published July 24, 1928.
Flour. Southwestern Milling Company. 247,902; Oct. 9; Serial No. 263,979; published July 24, 1928.
Food, Prepared. Swift and Company. 247,920; Oct. 9; Serial No. 266,631; published July 24, 1928.
Foods. Neuman & Schwiers Co. Inc. 71,817; renewed Dec. 15, 1928.
Foods, Livestock. John W. Eshelman & Sons. 247,971; Oct. 9; Serial No. 259,538; published June 5, 1928.
Fruits, Fresh deciduous. Whites Fruit Agency, Incorporated. 247,975–6; Oct. 9; Serial Nos. 258,545–6; published July 31, 1928.
Ham. Zehner Packing Company. 247,998; Oct. 9; Serial No. 266,504; published July 17, 1928.
Herring, smoked eels, etc., Pickled, Bismarck, dried, and smoked. Heller Brothers Importing Co. 247,904; Oct. 9; Serial No. 263,823; published July 31, 1928.
Ice cream. National Ice Cream Company. 247,910; Oct. 9; Serial No. 266,944; published July 24, 1928.
Macaroni. United States Macaroni Co. Inc. 247,887; Oct. 9; Serial No. 265,025; published July 24, 1928.
Macaroni, spaghetti, and noodles. J. R. Fischer. 247,969; Oct. 9; Serial No. 259,951; published July 24, 1928.
Paprika. Hijo de J. J. Navarro. 247,988; Oct. 9; Serial No. 249,477; published July 24, 1928.
Pies, Fried. Ozark Fried Pie Shope. 247,999; Oct. 9.
Pork products, smoked dried beef, bologna, etc., Smoked. Arpeako, Inc. 247,977; Oct. 9; Serial No. 258,390; published July 24, 1928.
Pretzels. Perfect Foods, Inc. 247,911; Oct. 9; Serial No. 266,828; published July 24, 1928.
Sausage, bacon, corned beef, etc. Pittsburgh Provision and Packing Company. 247,996; Oct. 9; Serial No. 96,966; published July 22, 1924.
Spice mixture. Avo Manhattan Spice Co. Inc. 247,980; Oct. 9; Serial No. 254,567; published July 24, 1928.
Syrup, Cane and maple. Crimson Rambler Products Corporation. 247,994; Oct. 9; Serial No. 236,010; published Dec. 14, 1926.
Syrup, Compound. E. Ventre. 247,888; Oct. 9; Serial No. 264,930; published July 24, 1928.
Syrup, Malt. Schoenhofen Company. 247,921; Oct. 9; Serial No. 266,625; published July 17, 1928.
Tomato catsup, chili sauce, pickle relishes, etc. Harbauer Company. 247,993; Oct. 9; Serial No. 237,169; published June 12, 1928.
Vegetables and melons, Fresh. Emery & Kavanagh Co. 247,968; Oct. 9; Serial No. 260,263; published July 31, 1928.
Vegetables, Fresh. F. Gore. 247,991; Oct. 9; Serial No. 247,017; published July 31, 1928.
Wafer rolls filled with peanut butter. B. F. Goodwin. 247,914; Oct. 9; Serial No. 266,806; published July 31, 1928.
Watermelons, Fresh. Kramer & Barcus. 247,855; Oct. 9; Serial No. 267,590; published July 31, 1928.
Wheat mixed feed. Frank R. Frina Corporation. 247,899; Oct. 9; Serial No. 264 328; published July 3, 1928.
Yeast, Compressed. Fleischmann & Co. 31,051–2; renewed Dec. 28, 1927.

ALPHABETICAL LIST OF LABELS.

Ann Howe Shoe for Women. For Shoes. Aronson Bros. Shoe Co. Inc. 34,684; Oct. 9.
Arrow Shoe. For Boxes. Hoague-Sprague Corporation. 34,720; Oct. 9.
Benjamin's. For Boxes. Hoague-Sprague Corporation. 34,736; Oct. 9.
Best Shoe. For Boxes. Hoague-Sprague Corporation. 34,730; Oct. 9.
Bett Maid. For Boxes. Hoague-Sprague Corporation. 34,718; Oct. 9.
Body Cell Salts (Solution "A"). For Medicinal Preparation. Kirkpatrick Laboratories, Inc. 34,747; Oct. 9.
Body Cell Salts (Solution B). For Medicinal Preparation. Kirkpatrick Laboratories, Inc. 34,748; Oct. 9.
Body Cell Salts (Solution C.) For Medicinal Preparation. Kirkpatrick Laboratories, Inc. 34,749; Oct. 9.
Body Cell Salts (Solution D). For Medicinal Preparation. Kirkpatrick Laboratories, Inc. 34,750; Oct. 9.
Boston Bootery Incorporated. For Boxes. Hoague-Sprague Corporation. 34,707; Oct. 9.
Boston Shoe Co. Incorporated. For Boxes. Hoague-Sprague Corporation. 34,702; Oct. 9.
Boston Shoe Co. Incorporated. For Boxes. Hoague-Sprague Corporation. 34,716; Oct. 9.
Boston Shoe Store. For Boxes. Hoague-Sprague Corporation. 34,710; Oct. 9.
Brooklyn Bridge. For an Abdominal Supporter. L. A. Fritsch. 34,689; Oct. 9.

Brown's Booterie. For Boxes. Hoague-Sprague Corporation. 34,741; Oct. 9.
Cardinal Brand. For Fresh Tomatoes. Florida Fruit Growers Corpn. 34,688; Oct. 9.
Cinderella. For Boxes. Hoague-Sprague Corporation. 34,737; Oct. 9.
Davidson Bros. Company. For Boxes. Hoague-Sprague Corporation. 34,699; Oct. 9.
Embry & Co. Incorporated. For Boxes. Hoague-Sprague Corporation. 34,705; Oct. 9.
Eveready Radio "B" Battery. For Electric Batteries. National Carbon Company. 34,753; Oct. 9.
General. For a General House Cleanser. A. S. Fryman. 34,690; Oct. 9.
Genung's. For Boxes. Hoague-Sprague Corporation. 34,724; Oct. 9.
Hanapeds. For Boxes. Hoague-Sprague Corporation. 34,740; Oct. 9.
Hassel's Shoes. For Shoes. Hoague-Sprague Corporation. 34,745; Oct. 9.
Ideal Shoe Company. For Boxes. Hoague-Sprague Corporation. 34,721; Oct. 9.
If It's New! We Have It. For Boxes. Hoague-Sprague Corporation. 34,722; Oct. 9.
Insured. For Padlocks. Briggs and Stratton Corporation. 34,686; Oct. 9.
J—J. For Shoe Dressing. J. D. Johnson. 34,746; Oct. 9.
James McCreery & Co. For Boxes. Hoague-Sprague Corporation. 34,693; Oct. 9.
Joseph Horne Co. For Boxes. Hoague-Sprague Corporation. 34,729; Oct. 9.
Joseph's. For Boxes. Hoague-Sprague Corporation. 34,692; Oct. 9.
Julius Bernstein. For Boxes. Hoague-Sprague Corporation. 34,731; Oct. 9.
Katz. For Boxes. Hoague-Sprague Corporation. 34,734; Oct. 9.
Katz & Levy. For Boxes. Hoague-Sprague Corporation. 34,704; Oct. 9.
Kennedy-Gillespie Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,723; Oct. 9.
Kinnaman & Neal. For Boxes. Hoague-Sprague Corporation. 34,743; Oct. 9.
Known for Service, Quality and Low Prices. For Boxes. Hoague-Sprague Corporation. 34,744; Oct. 9.
Lady Claire. For Boxes. Hoague-Sprague Corporation. 34,727; Oct. 9.
Marks Isaacs Co. For Boxes. Hoague-Sprague Corporation. 34,717; Oct. 9.
Martin's. For Boxes. Hoague-Sprague Corporation. 34,709; Oct. 9.
Mayadine. For a Medical Preparation for Treatment of Arthritis, Neuritis, and Rheumatic Conditions. Research Products Company. 34,757; Oct. 9.
McKelvey's. For Boxes. Hoague-Sprague Corporation. 34,697; Oct. 9.
Naturelle Furs of Shelton Looms. For Pile Fabrics in the Piece. Sidney Blumenthal & Co. Inc. 34,685; Oct. 9.
Nuro Triple Tonic. For Reconstructive Tonic. L. Morrison. 34,752; Oct. 9.
Olio D'Oliva. For Olive Oil. E. J. Petrosemolo. 34,755; Oct. 9.
Palmer House. For Pears. Palmer Corporation. 34,754; Oct. 9.
Randall & Simmers. For Boxes. Hoague-Sprague Corporation. 34,711; Oct. 9.
Rodes-Rapier Co. For Boxes. Hoague-Sprague Corporation. 34,742; Oct. 9.
S and W Komaroff's. For Boxes. Hoague-Sprague Corporation. 34,703; Oct. 9.
S. Kann Sons Co. For Boxes. Hoague-Sprague Corporation. 34,695; Oct. 9.
S–Ulco Brand. For Cauliflower. Sullivan-Ulster Cauliflower Growers Cooperative, Inc. 34,759; Oct. 9.
Samter Bros. Co. For Boxes. Hoague-Sprague Corporation. 34,733; Oct. 9.
Schmidt's Quality Shoes. For Boxes. Hoague-Sprague Corporation. 34,732; Oct. 9.
Snyder & Berman Incorporated. For Boxes. Hoague-Sprague Corporation. 34,701; Oct. 9.
Sommer & Kaufmann. For Boxes. Hoague-Sprague Corporation. 34,706; Oct. 9.
Speedway Patch. For Tube-Patch Kits. W. R. Landsberg. 34,751; Oct. 9.
Stone's Booterie Inc. For Boxes. Hoague-Sprague Corporation. 34,713; Oct. 9.
Styles of Today with a Touch of Tomorrow. For Boxes. Hoague-Sprague Corporation. 34,739; Oct. 9.
Summer's Frozen Suckers. For Frozen Water Ices on Stick. Purity Ice Cream Co. 34,756; Oct. 9.
Sutton Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,712; Oct. 9.
Sweetheart. For Cake. James A. Harper Supply Company. 34,691; Oct. 9.
T. S. F. For Insecticide or Preparation to Kill Lice. Burrell-Dugger Company. 34,687; Oct. 9.
Table Queen. For Canned Hominy. Smart & Final Co. 34,758; Oct. 9.
Taylor's. For Boxes. Hoague-Sprague Corporation. 34,728; Oct. 9.
The Davis-Smith Booterie. For Boxes. Hoague-Sprague Corporation. 34,715; Oct. 9.
The French Shoppe. For Boxes. Hoague-Sprague Corporation. 34,719; Oct. 9.
The Guarantee Shoe Company. For Boxes. Hoague-Sprague Corporation. 34,708; Oct. 9.
The Hecht Co. For Boxes. Hoague-Sprague Corporation. 34,714; Oct. 9.
The Hub. For Boxes. Hoague-Sprague Corporation. 34,694; Oct. 9.
The Parisian Co. For Boxes. Hoague-Sprague Corporation. 34,735; Oct. 9.
The Store of Quality. For Boxes. Hoague-Sprague Corporation. 34,698; Oct. 9.
Toledo's Store for Men. For Boxes. Hoague-Sprague Corporation. 34,696; Oct. 9.
Watters. For Boxes. Hoague-Sprague Corporation. 34,726; Oct. 9.
Wise, Smith & Company. For Boxes. Hoague-Sprague Corporation. 34,700; Oct. 9.
Wm. Cohan. For Boxes. Hoague-Sprague Corporation. 34,738; Oct. 9.
Woolf & Reynolds Inc. For Boxes. Hoague-Sprague Corporation. 34,725; Oct. 9.

ALPHABETICAL LIST OF PRINTS.

Collingbourne's Gift Ribbon Tie. For Gift Ribbon. Collingbourne Mills, Inc. 11,257; Oct. 9.
Lee Overalls. For Work Clothes—Namely, Overalls and Jackets. H. D. Lee Mercantile Company. 11,260; Oct. 9.
Lee Play Suits. For Children's Clothes—Namely, Overalls, and Button and Buttonless Children's Garments. H. D. Lee Mercantile Company. 11,262; Oct. 9.
Lee Union-Alls. For Work Clothes—Namely, Button and Buttonless One-Piece Work Garments. H. D. Lee Mercantile Company. 11,261; Oct. 9.
New 1928 Fandango Auto Slip Covers. For Automobile Upholstery Covers. Fandango Products of New York. 11,259; Oct. 9.
Splendid Results from this Plan. For Wheat Breakfast Food. Cream of Wheat Co. 11,258; Oct. 9.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A. G. Brown, Boveri & Cie. (See Couwenhoven, Abraham, assignor.)
A. G. Brown, Boveri & Cie. (See Meyer, A., and Frey, assignors.)
A. G. Brown, Boveri & Cie. (See Suter, Philipp, assignor.)
A T Oil Burner Co. (See Hansen, Sinius M., assignor.)
Aalborg, Christian, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch-operating mechanism. 1,686,721; Oct. 9.
Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clothes washer. 1,686,722; Oct. 9.
Abercrombie, James S., Houston, Tex. Weight regulating device. 1,686,945; Oct. 9.
Abreu, Joaquin S., San Francisco, Calif. Airship. 1,687,000; Oct. 9.
Adam, Matthew A. (See Antono, George N., assignor.)
Ainsa, Joseph Y., Morenci, Ariz. Direction indicator. 1,687,419; Oct. 9.
Aktiengesellschaft Brown, Boveri & Cie. (See Ferrari, Plinio, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Keller, Gottlieb, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Ruegg, Henri, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Wichert, Alfred, assignor.)
Alexander, Harry H., Westfield, N. J. Method and apparatus for purifying metals. 1,687,277; Oct. 9.
Alland, Maurice, Atlantic City, N. J. Pocket golf game. 1,686,647; Oct. 9.
Allen, Andrews, Glencoe, assignor to Allen & Garcia Company, Chicago, Ill. Overturning skip apparatus. 1,687,278; Oct. 9.
Allen & Garcia Company. (See Allen, Andrews, assignor.)
Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
Alloys Company, The. (See Newell, Minton H., assignor.)
Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Power-lift plow. 1,686,545; Oct. 9.
Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. 1,686,546; Oct. 9.
American Bosch Magneto Corporation. (See Lovejoy, Dimmitt R., assignor.)
American Brake Materials Corporation. (See Thompson, James S., assignor.)
American Chain Company. (See Lyon, George A., assignor.)
American Cyanamid Company. (See Buchanan, G. H., and Barsky, assignors.)
American Foundry Equipment Company. (See Peik, Louis D., assignor.)
American Hardware Corporation, The. (See Hurd, Norman B., assignor.)
American Laundry Machinery Company, The. (See Carroll, E. J., and Johnson, assignors.)
American Multigraph Company, The. (See Colquhoun, Peter M., assignor.)
American Parlor Frame Company. (See Graham, Charles T., assignor.)
American Radiator Company. (See Howell, Frank B., assignor.)
American Radiator Company. (See Mertzanoff, André M., assignor.)
American Smelting and Refining Company. (See O'Harra, B. M., and Slagle, assignors.)
American Steel and Wire Company of New Jersey, The. (See Larson, Charles L., assignor.)
American Steel Foundries. (See Baselt, Walter H., assignor.)
American Telephone and Telegraph Company. (See Fairchild, Frank E., assignor.)
American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)
American Telephone and Telegraph Company. (See Vernam, Gilbert S., assignor.)
Ames, Cortlandt F., jr., Mount Vernon, N. Y., assignor to The Barrett Company. Shingle fastener. 1,686,675; Oct. 9.
Anderson, Edward, Denver, Colo. Dehorner. 1,686,723; Oct. 9.
Anstice, Josiah, & Co. Inc. (See McCathron, Claude B., assignor.)
Anthony, John, Attleboro, Mass. Ornamental chain. 1,686,504; Oct. 9.
Anthony, Stanley, Boston, Mass. Push button. 1,686,506; Oct. 9.
Antonoff, George N., assignor to M. A. Adam, London, England. Electric battery of the Leclanché type. 1,687,051; Oct. 9.
Archer, Merton T., Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio. Gas-lift pumping apparatus. 1,687,317; Oct. 9.
Atlas Powder Company. (See Brown, Kenneth R., assignor.)
Austin, David P. (See Austin, William C., assignor.)
Austin, William C., assignor to D. P. Austin, Philadelphia, Pa. Pattern wheel for knitting machines. 1,687,279; Oct. 9.
Automatic Electric Inc. (See Crocker, Thomas F., assignor.)
Automatic Electric Inc. (See Ray, Arthur J., assignor.)
Automotive Maintenance Machinery Co. (See Heon, Horace C., assignor.)
Avery, William H. (See Schauman, Karl O., assignor.)
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can-filling machine. 1,686,946; Oct. 9.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Babcock & Wilcox Company, The. (See Lewis, N. E., and Kerr, assignors.)
Bach, Henrik, Disiosanmartin, Transylvania, Rumaina. Gas burner with automatically-controlled safety valve. 1,687,358; Oct. 9.
Bahnsen, Henry E., Hammond, Ind. Automobile chain tightener. 1,687,318; Oct. 9.
Baker, Erle K., assignor to Baker Reduction Gear Company, Detroit, Mich. Planetary-reduction-gear construction. 1,687,077; Oct. 9.
Baker Perkins Company. (See Engels, Eugene O., assignor.)
Baker Perkins Company. (See Harber, Laurence S., assignor.)
Baker Reduction Gear Company. (See Baker, Erle K., assignor.)
Baker, Samuel G., jr. (See Johnson, N. G., and Baker.)
Bakken, Andrew H. (See MacNeill, J. B., Bakken, and Tucker.)
Baldwin, James V. (See Van Hise, Lester E., assignor.)
Baldwin, Nathaniel, East Mill Creek, Utah. Loud speaker. 1,687,359; Oct. 9.
Baldwin, W. M., administrator. (See Parsons, Ernest P.)
Ball, Harry V., Concord, Mass., assignor to R. Hoe & Co., Inc., New York, N. Y. Combined gear guard and step. 1,687,078; Oct. 9.
Ballot, Ernest M., Paris, France. Suspension without axles for motor vehicles. 1,687,191; Oct. 9.
Balnojan, Peter, Pancevo, Yugoslavia, assignor to J. Yahraus, and K. and J. Goettl, trustees, Mansfield, Ohio. Variegated and changeable color sign. 1,686,615; Oct. 9.
Bandemer, William E. (See King H. W., and Bandemer.)
Barber-Colman Company. (See Edgar, John, assignor.)
Barber, George G., New York, N. Y., assignor to Continental Baking Company, Wilmington, Del. Food package. 1,687,052; Oct. 9.
Barber, James T., Brooklyn, N. Y. Micrometer gauge for roller mills. 1,687,192; Oct. 9.
Barber, William, Brooklyn, N. Y. Sheet-metal wheel. 1,686,509; Oct. 9.
Barbour, Fred R., Los Angeles, Calif. Tent. 1,686,507; Oct. 9.
Barbour, John A., et al. (See Lyon, Harry, assignor.)
Barbour, Perley E. (See Lyon, Harry, assignor.)
Barbour Welting Company. (See Lyon, Harry, assignor.)
Barclay, Gustaf I., assignor to Detroit Steel Products Co., Detroit, Mich. Fastener for ventilators. 1,687,263; Oct. 9.
Bardaxoglou, Stanley, New York, N. Y. Milk-bottle protector. 1,687,153; Oct. 9.
Barker, Horace E., Brooklyn, N. Y. Dental device. 1,687,079; Oct. 9.
Barker, William S., Knightstown, Ind. Coal-gas and oxygen burner. 1,686,508; Oct. 9.
Barrett Company, The. (See Ames, Cortlandt F., jr., assignor.)
Barsky, George. (See Buchanan, G. H., and Barsky.)
Baruch, Milton, Beverly Hills, Calif., assignor to Westinghouse Electric and Manufacturing Company. Elevator. Re17,097; Oct. 9.
Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Balancing device for brake heads. 1,686,648; Oct. 9.
Bast, Dale D., Braddyville, Iowa. Dialless radio. 1,687,420; Oct. 9.
Bates, Adelmer M., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Machine for making and filling bags. 1,686,787; Oct. 9.
Bates Valve Bag Corporation. (See Bates, Adelmer M., assignor.)

Baughman, Guy L., Burbank, Okla. Direction indicator. 1,687,421; Oct. 9.
Baum, Isaac A., Chicago, Ill. Building element. 1,686,724; Oct. 9.
Baum, Isaac A., Chicago, Ill. Wood and metal door frame. 1,686,725; Oct. 9.
Bausch and Lomb Optical Company. (See Chase, G. H., and Flodin, assignors.)
Baxter, Dominic J. (See Federbush, Max W. and J. D., and Baxter.)
Baxter, Thomas R. (See Federbush, Max W. and J. D., and Baxter.)
Beacon Falls Rubber Shoe Company, The. (See Hopwood, William B., assignor.)
Bean Spray Pump Co. (See Lisle, H. C., and Lewis, assignors.)
Bean, William L., West Haven, Conn. Locomotive smoke-box structure. 1,686,788; Oct. 9.
Beck, Roy C., Los Angeles, assignor to Selectasine System, San Francisco, Calif. Method of and apparatus for stenciling. 1,687,080; Oct. 9.
Belden, Edward H., Toledo, assignor to Belden Patents Incorporated, Toledo, Ohio. Sleeve-valve two-cycle motor. 1,686,789; Oct. 9.
Belden, Edward H., assignor to Belden Patents Incorporated, Toledo, Ohio. Counterbalanced-piston motor. 1,686,790; Oct. 9.
Belden Patents Incorporated. (See Belden, Edward H., assignor.)
Bell Telephone Laboratories, Incorporated. (See Jones, Warren C., assignor.)
Bell, Thomas W., and T. C. Rogers, Parkersburg, W. Va. Wire-line clamp. 1,686,547; Oct. 9.
Belluche, Elmer W., Racine, Wis., assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y. Sheet feeder. 1,686,510; Oct. 9.
Belluche, Elmer W., Racine, Wis., assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y. Sheet feeder. 1,686,595; Oct. 9.
Bensien, Wilhelm, Sibstin, Germany. Cultivator. 1,687,422; Oct. 9.
Benson, Adolph W. (See Lindemann, W. C., and Benson.)
Benson, Eliot, Newton Highlands, and F. M. Durkee, Brookline, Mass. Light-distributing device. 1,687,119; Oct. 9.
Benzon, Frederick L., Plainville, Conn. Electrical panel board. 1,687,319; Oct. 9.
Berlowitz, Max E., Belleville, N. J., assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y. Method of and apparatus for testing magnetizable objects. 1,686,676; Oct. 9.
Bertele, Ludwig, Dresden, Germany. Cinematographic projection apparatus with optical compensation. 1,687,193; Oct. 9.
Bethlehem Steel Company. (See Lukens, W. L., and Carey, assignors.)
Bethlehem Steel Company. (See Madden, James P., assignor.)
Bethlehem Steel Company. (See Van Essen, Pieter D., assignor.)
Betz, Charles F., St. Louis, Mo. Bakery machinery. 1,686,596; Oct. 9.
Betz, William G., assignor to Straube Piano Co., Hammond, Ind. Grand piano. 1,686,726; Oct. 9.
Biddle, William C., et al. (See Corbin, Elbert A., jr., assignor.)
Bindner, Julius R., St. Louis, Mo. Shank for turn shoes. 1,686,791; Oct. 9.
Binocular Stereoscopic Film Company. (See Fairall, Harry K., assignor.)
Bishop Company, The. (See Bishop, Frederick R., assignor.)
Bishop, Frederick R., assignor to The Bishop Company, North Attleboro, Mass. Bridge for an ophthalmic mounting. Des. 76,517; Oct. 9.
Bishop, Glenn A., Evanston, Ill. Radiolog. 1,686,677; Oct. 9.
Bishop, James O., Torrance, Calif. Torch-operating mechanism. 1,687,001; Oct. 9.
Black, Harold S., Newark, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Translating system. 1,686,792; Oct. 9.
Blake & Johnson Company. (See Lynch, J. M., and Gilmour, assignors.)
Blakeslee, George R., executor. (See Blakeslee, George S.)
Blakeslee, George S., deceased, Oak Park, Ill.; G. R. Blakeslee, executor. Dishwashing machine. 1,686,511; Oct. 9.
Blanchard, Alfred, assignor to Otis Company, Ware, Mass. Yarn-conditioning machine. 1,686,548; Oct. 9.
Blanchard, Forrest S., Stoneham, assignor to Ideal Can Company, Everett, Mass. Safety can. 1,687,120; Oct. 9.
Boatwright, Jim A., Thomson, Ga. Display hanger. 1,687,323; Oct. 9.
Bock, Wilhelm, Lansdale, Pa. Differential drying machine. 1,686,597; Oct. 9.
Boden, George, and G. A. King, Waterbury, Conn. Double-pointed pin fastener. Re17,100; Oct. 9.
Boden, George, G. A. King, and L. B. Chapman, assignors to Scovill Manufacturing Company, Waterbury, Conn. Double-pointed pin fastener. Re17,099; Oct. 9.
Boeniger, Melchior, assignor to Chemical Works, formerly Sandoz, Basel, Switzerland. Diazotizable azodyestuffs. 1,686,947; Oct. 9.
Böhme, Kurt, Berlin-Siemensstadt, and K. Giese, Nowawes, assignors to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Bank contact for telephone switches. 1,687,121; Oct. 9.
Bolgiano, John, New York, and W. Reilly, White Plains, N. Y. Propelling means. 1,687,360; Oct. 9.
Bolton, Myrle S., Rosemeade, Calif. Food product and making the same. 1,687,154; Oct. 9.
Borden Company, The. (See McClatchie, John M., assignor.)
Borg & Beck Company, The. (See Nelson, Gustave C., assignor.)
Böttger, Oskar. (See Schettler, G. A., and Böttger.)
Bouton, Edgar M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,686,948; Oct. 9.
Bowers, Frank E., Indianapolis, Ind. Washing-liquid clarifier and purifier. 1,687,235; Oct. 9.
Bowersox, Albert S., Fletcher, Ohio. Automobile signal. 1,687,053; Oct. 9.
Bowersox, Joseph W., Los Angeles, Calif. Mattress-making apparatus. 1,687,002; Oct. 9.
Bowlsby, Philip H. (See Ross, S. E., and Bowlsby.)
Boyer, Alexander B., administrator. (See Cross, Charles S.)
Boyle, Frank H. (See Rogers, H. J., and Boyle.)
Boynton, Alexander, San Antonio, Tex. Method of and apparatus for cementing oil, gas, and water wells. 1,687,424; Oct. 9.
Brach, Emil J. (See Morrison, R. F., and Elder, assignors.)
Bradnack, John H., New Haven, Conn., assignor to The Tubular Products Company, Southington, Conn. Smoker's stand. Des. 76,518; Oct. 9.
Bradshaw, Julius C., Mobile, Ala. Railroad crossing. 1,687,054; Oct. 9.
Bradshaw, William M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,686,727; Oct. 9.
Brady, Charles T., Detroit, Mich. Illuminated hand magnifying glass. Des. 76,519; Oct. 9.
Brandt, Francis J., assignor of two-thirds to Hollweck & Bauer, Philadelphia, Pa. Indicating means for vending machines. 1,686,949; Oct. 9.
Braselton, Chester H., New York, N. Y. Liquid-supply system. 1,686,891; Oct. 9.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Stencil duplicating machine. 1,687,003; Oct. 9.
Brayton, Grant E., et al. (See Leeper, Jesse C., assignor.)
Breecinski, Carl, Mauston, Wis. Elevating grain. 1,686,793; Oct. 9.
Breneman, Paul E., Detroit, Mich., assignor, by mesne assignments, to Murray Body Corporation. Vehicle body. 1,687,264; Oct. 9.
Bridge, Walter G., Newton, assignor to C. E. Parkhurst, Somerville, Mass. Dental attachment. 1,686,950; Oct. 9.
Bridgman & Rubin, Inc. (See Smith, Harry B., assignor.)
Briese, Alfred, Wheeling, and R. Callow, Boggs Run, W. Va. Machine for countersinking pipe couplings. 1,686,841; Oct. 9.
Briggs and Stratton Corporation. (See Coughlin, Charles L., assignor.)
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Briggs, Henry Hasbrouck Heights, N. J. Internal-combustion motor. 1,687,425; Oct. 9.
Briggs, Marie, San Diego, Calif. Nursing bottle cover and nipple support. 1,687,004; Oct. 9.
Brincil, Joseph, Reading, Pa. Bearing and method of making it. 1,686,951; Oct. 9.
Brink, Winfield S., assignor to The Firestone Steel Products Company, Akron, Ohio. Rim-feeding device. 1,687,468; Oct. 9.
British Steel Piling Company, The. (See Hiley, Alfred, assignor.)
Broadbent, Charles, Atlantic City, N. J., assignor of one-half to H. L. Parker, Germantown, Pa. Massage implement. 1,686,598; Oct. 9.
Brock, Clarence A., Detroit, Mich. Conveyer chain. 1,687,005; Oct. 9.
Brockett, Bluford W., Cleveland Heights, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Speaking panel for jails or the like. 1,687,280; Oct. 9.
Brown, David S., et al. (See Strickland, Clarence E., assignor.)
Brown, Kenneth R., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Gelatinized explosive composition. 1,686,952; Oct. 9.
Brown, Ralston B., Los Angeles, Calif. Mixing apparatus. 1,686,953; Oct. 9.
Brown, Robert E., Olean, N. Y. Knife. Des. 76,520; Oct. 9.
Brown, Robert S. (See Klein, C. A., and Brown.)
Brown, Roy W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Instrument pump. 1,687,469; Oct. 9.
Brown, William A., et al. (See Corbin, Elbert A., jr., assignor.)
Brownlee, Henry, Port Hope, Ontario, Canada. Escape device for submarines. 1,686,892; Oct. 9.
Brugger, John, New York, N. Y. Internal-combustion engine. 1,686,794; Oct. 9.
Brunhoff, Edward, Wyoming, Ohio. Display stand. 1,686,954; Oct. 9.

Brunhoff, Edward, Cincinnati, Ohio. Display lid. 1,686,955; Oct. 9.
Brush, Mittie T., Dublin, N. H. Reenforced transparent sheet and making the same. 1,686,649; Oct. 9.
Bryson, Charles R. (See Templeton, David K., assignor.)
Bryson, Tandy A., and J. J. McKeon, Troy, N. Y., assignor, by mesne assignment, to General Laundry Machinery Corporation, Philadelphia, Pa. Treating fabrics. 1,687,122; Oct. 9.
Buchanan, Guy H., Westfield, N. J., and G. Barsky, assignors to American Cyanamid Company, New York, N. Y. Recovering oxalates. 1,687,480; Oct. 9.
Buchli, Jacob, Winterthur, Switzerland. High-pressure steam boiler for locomotives. 1,686,893; Oct. 9.
Buckert, Homer A., St. Louis, and E. K. Hall, University City, Mo. Receding or disappearing caster or roller. 1,686,894; Oct. 9.
Buckert, Homer A., St. Louis, and E. K. Hall, University City, Mo. Wheel-alignment indicator. 1,686,895; Oct. 9.
Buckert, Homer A., St. Louis, and E. K. Hall, University City, Mo. Automobile creeper. 1,686,896; Oct. 9.
Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on parts of boots and shoes. 1,686,728; Oct. 9.
Buda Company, The. (See Gormley, Frank L., assignor.)
Buffington, John R., assignor to Decarie Incinerator Corporation, New York, N. Y. Heat regenerator. 1,687,236; Oct. 9.
Bull, Clinton H. M., assignor to Reed Roller Bit Company, Houston, Tex. Measuring tape. 1,686,956; Oct. 9.
Bull, Clinton H. M., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 1,686,957; Oct. 9.
Bulla, Melbern B., El Paso, Tex. Removing car brasses. 1,686,729; Oct. 9.
Bullivant, Francis J., assignor to Valley Electric Company, St. Louis, Mo. Electrical connecter. 1,686,842; Oct. 9.
Bunting, James H., Clifton, N. J., assignor to Susquehanna Silks Mills, Textile fabric. Des. 76,521; Oct. 9.
Burke, Walter B., assignor to The Domino System Co., Chicago, Ill. Handicapping device. 1,686,843; Oct. 9.
Burke, Walter T., Chicago, Ill. Flexible cable adjuster. 1,686,678; Oct. 9.
Burkenstein, Anton, Chicago, Ill. Marking and stamping tool. 1,686,512; Oct. 9.
Burks, Arthur W., Decatur, Ill. Pump. 1,686,549; Oct. 9.
Burns, Katherine E., assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 76,522; Oct. 9.
Burrows, Charles W., New York, assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y. Apparatus for testing magnetizable objects. 1,686,679; Oct. 9.
Burton, Oliver M. (See Scott, Harry M., assignor.)
Butt, Howard, assignor to Riley Stoker Corporation, Worcester, Mass. Metallurgical furnace. 1,687,470; Oct. 9.
Byerlein, Arthur A., Detroit, Mich. Stamping press. 1,686,844; Oct. 9.
Byron, Ofra E., assignor to Wolverine Trailer Corporation, Detroit, Mich. Trailer-brake mechanism. 1,686,730; Oct. 9.
C. G. Spring & Bumper Company, The. (See Dunston, Wayne E., assignor.)
Cable Company, The. (See Hagey, James C., assignor.)
Cable Company, The. (See Swenson, Alfred, assignor.)
Cady, Walter H., Brookline, assignor to The Flintkote Company, Boston, Mass. Roof package and binder therefor. 1,686,513; Oct. 9.
Cadoret, Louis A., Pawtucket, R. I. Thread-tensioning means for shuttles. 1,687,320; Oct. 9.
Calabi, Giacomo A. (See Furmanik, Giuseppe, assignor.)
Calcott, Walter C. (See Schleicher, P. E., and Calcott.)
Caldwell, James F., Watts, Calif. Aquatic vehicle. 1,687,194; Oct. 9.
Caldwell, Iva M., Maryville, Mo. Tire rim. 1,687,426; Oct. 9.
Callow, Russell. (See Briese, A., and Callow.)
Caminez, Harold, Farmingdale, N. Y. Piston. 1,687,265; Oct. 9.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway car. 1,686,798; Oct. 9.
Canadian Car and Foundry Company Limited. See Viberg, E. R., and Linderblad, assignors.)
Canadian Electro Products Company. (See Reid, H. S., and Hovey, assignors.)
Candee, Allan H., and M. H. Johanson, assignors to Glenson Works, Rochester, N. Y. Method of and machine for cutting cylindrical gears. 1,686,550; Oct. 9.
Candee, L., & Company. (See Clements, Eugene E., assignor.)
Canode, Benjamin F., Aurora, Ill. Screw driver. 1,686,681; Oct. 9.
Canton Forge & Axle Company. (See Schneider, Laurence A., assignor.)
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for photographic color process. 1,687,055; Oct. 9.
Carey, Raymond R. (See Lukens, W. L., and Carey.)
Carl, Rudolf, Vienna, Austria. Electrolytically separating the alloys of silver with other precious or base metals. 1,687,056; Oct. 9.
Carlson, Alexander, Detroit, Mich. Corner construction for closed vehicles. 1,686,897; Oct. 9.
Carlson, Edward, Buffalo, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index device. 1,686,731; Oct. 9.
Carlton, Richard P., St. Paul, Minn., assignor, by mesne assignments, to The Stratmore Company, Cleveland, Ohio. Abrasive article. 1,686,898; Oct. 9.
Carmichael, Andrew J., assignor to The Greist Manufacturing Company, New Haven, Conn. Base for portable lamps. 1,686,551; Oct. 9.
Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Compressor. 1,686,899; Oct. 9.
Carrey-Morse Engineering Company. (See Carrey, John O., assignor.)
Carroll, Houston M., sr., San Antonio, Tex. Flask clamp. 1,687,195; Oct. 9.
Carroll, Emil J., Norwood, and G. W. Johnson, Bond Hill, assignors to The American Laundry Machinery Company, Norwood Station, Ohio. Laundry-marking tag. 1,687,361; Oct. 9.
Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y. Spring binding post. 1,686,958; Oct. 9.
Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Bottle cap. 1,686,514; Oct. 9.
Case, Egerton R., Toronto, Ontario, Canada. Electric heating unit and forming and assembling same. 1,686,795; Oct. 9.
Case, Egerton R., Toronto, Ontario, Canada. Support for electric resistance elements. 1,686,796; Oct. 9.
Case, J. I., Threshing Machine Company. (See MacGregor, Wallace F., assignor.)
Case, Lynn, B., New Brunswick, N. J., assignor to John Waldron Corporation, New York, N. Y. Process and apparatus for drying oriental rugs. 1,686,680; Oct. 9.
Casteel, George W., San Diego, Calif. Postage-stamp holder. 1,686,959; Oct. 9.
Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Marker for continuous weighing devices. 1,687,321; Oct. 9.
Cayot, Josef, Oakland, Calif. Self-cleaning salt shaker and the like. 1,687,155; Oct. 9.
Central Glass Works. (See Harpfer, Fred A., assignor.)
Central Tube Company. (See Laughlin, Alexander, jr.)
Certain-teed Products Corporation. (See Emerson, Warren M., assignor.)
Chandler, Edward F., Brooklyn, N. Y. Sectional cabinet. 1,686,515; Oct. 9.
Chandler, Thomas H. (See Smith, B. C., and Chandler.)
Chanler, Gaston L., Jersey City, N. J., assignor to Pathe Exchange, Inc., New York, N. Y. Film holder. 1,686,650; Oct. 9.
Chapman, Lyman B. (See Boden, G., King, and Chapman.)
Chapman, Ralph E., Miami, Fla. Apparatus for cutting or welding metal. 1,687,081; Oct. 9.
Chase Companies. (See Hallberg, August W., assignor.)
Chase, George H., and O. H. Flodin, Rochester, assignors to Bausch and Lomb Optical Company, New York, N. Y. Spectacle temple. 1,686,797; Oct. 9.
Christensen, Alfred H. L., assignor to A. B. Dräger, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Dräger, deceased. Setting for eyeglasses. 1,686,516; Oct. 9.
Christman, Louis P., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,687,057; Oct. 9.
Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Controller lock. 1,687,058; Oct. 9.
Cheetham, Gordon B., assignor to Toledo Scale Company, Toledo, Ohio. Bearing. 1,686,732; Oct. 9.
Chemical Works formerly Sandoz. (See Boeniger, Melchior, assignor.)
Chemical Works formerly Sandoz. (See Rothlin, E., and Müller, assignors.)
Chemische Fabrik Pott & Co. (See Pott, Rainer H., assignor.)
Cheney, Byron M. (See Wiebler, George, H. B., and W. T., assignors.)
Claremont, Claude A., Rosslyn Hill, Hampstead, England. Games racket. 1,687,322; Oct. 9.
Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Esterifying mercerized cellulose with lower fatty acids. 1,687,059; Oct. 9.
Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose esters containing halogenated acyl groups and making the same. 1,687,060; Oct. 9.
Claude, Georges, Paris, France, assignor, by mesne assignments, to Lazote Inc. Apparatus for the synthesis of ammonia. 1,686,799; Oct. 9.
Clements, Eugene E., assignor to L. Candee & Company, New Haven, Conn. Buckle-strap severing and assembling machine. 1,687,479; Oct. 9.
Cleminshaw, R. H. (See Wadsworth, Howard L., assignor.)
Cleveland Rock Drill Company, The. (See Nell, Gustave M., assignor.)
Clisson, Albert B. (See Kilby, C. B., Reinitz, and Clisson.)
Close, Lyman W., assignor to The Toledo Pressed Steel Company, Toledo, Ohio. Construction torch. 1,686,651; Oct. 9.
Closure Service Company, The. (See Carvalho, Leslie R. N., assignor.)

Cohen, Jacob, Middle Village, N. Y. Doll purse. Des. 76,523; Oct. 9.
Cole, Ailleen C. (See Cole, John J. B., and A. C.)
Cole, Don, assignor of one-half to J. A. Dienner, Chicago, Ill. Internal-combustion engine and timing the valves thereof. 1,687,082; Oct. 9.
Cole, John J. B., and A. C. Cole, Hungerford, England. Receptacle for use by smokers for tobacco ash and the like. 1,687,362; Oct. 9.
Coleman, Harry J., Pelham, N. Y. Mounting photo-engraving plates. 1,687,266; Oct. 9.
Coleman, Jesse K. (See Coleman, Josiah E., and J. K.)
Coleman, Josiah E. and J. K., Fort Smith, Ark. Cultivator. 1,686,900; Oct. 9.
Collins, Paul B. (See MacVeigh, J. G., and Collins.)
Colquhoun, Peter M., Lakewood, assignor to The American Multigraph Company, Cleveland, Ohio. Printing device. 1,686,800; Oct. 9.
Conant, Arthur P., Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watch-case. Des. 76,524; Oct. 9.
Conaway, Ernest A., Little Rock, Ark. Seal latch. 1,687,083; Oct. 9.
Cone, James H., Roseland, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring Company. Electrical measuring instrument. 1,686,652; Oct. 9.
Consolidated Car-Heating Company Inc. (See Oakley, George E., assignor.)
Consolidated Machine Tool Corporation of America, Newton Machine Tool Works. (See Rollings, Ernest J., assignor.)
Continental Baking Company. (See Barber, George G., assignor.)
Continental Gin Company. (See Elliott, Thomas, assignor.)
Corbin, Elbert A., jr., Swarthmore, assignor of one-third to W. C. Biddle, Lansdowne, and one-third to W. A. Brown, Philadelphia, Pa. Resilient transmission for vehicle wheels. 1,687,237; Oct. 9.
Corkran, Levin O., Rhodesdale, Md. Screen cleaner. 1,687,428; Oct. 9.
Cormican, Robert M., Casey, Ill. Combination trunk and luggage carrier. 1,687,427; Oct. 9.
Cornelius, Wesley F., Whittier, Calif. Latching hook for oil-well elevators. 1,687,006; Oct. 9.
Corning Glass Works. (See Lebby, States L., assignor.)
Cornwall, Leon H., and G. P. Schmitt, New York, N. Y. Automatic distributing apparatus for liquid. 1,687,007; Oct. 9.
Corser, Frank, and W. Peach, Junkins, Alberta, Canada. Foldable chair. 1,686,599; Oct. 9.
Costello, William F., assignor to The Dura Company, Toledo, Ohio. Window-regulator mechanism. 1,687,238; Oct. 9.
Couch, Glenn F., Rochester, assignor to The Symington Company, New York, N. Y. Draft-key retainer. 1,686,733; Oct. 9.
Coughlin, Charles L., assignor to Briggs and Stratton Corporation, Milwaukee, Wis. Clutch mechanism. 1,686,682; Oct. 9.
Couwenhoven, Abraham, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Safety device for traction operation. 1,687,084; Oct. 9.
Cox, Mackneele, Stollings, assignor of one-half to H. M. McKee, Peach Creek, W. Va. Cable hook. 1,686,734; Oct. 9.
Cox, Percy, and F. McPartland, Johnson City, N. Y., assignors to Endicott Johnson Corporation, Endicott, N. Y. Shoe. 1,687,267; Oct. 9.
Coyne, Harry J., Watertown, Mass. Making motor-vehicle bodies. 1,686,555; Oct. 9.
Cook, Albert E., Evanston, Ill. Auto marine vehicle. 1,686,517; Oct. 9.
Cook, Harvey S., Valparaiso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill. Medicament cartridge and hypodermic syringe embodying the same. 1,687,323; Oct. 9.
Cook, Harvey S., Valpariaso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe. 1,687,324; Oct. 9.
Cook, Henry W., assignor to A. E. Nettleton Company, Syracuse, N. Y. Credit card. Des. 76,525; Oct. 9.
Cook Laboratories, Inc. (See Cook, Harvey S., assignor.)
Cooney, Peter A., Chicago, Ill., assignor, by mesne assignments, to Electrecorder Corporation, Dover Del. Apparatus for measuring production. 1,687,281; Oct. 9.
Cooper, James E., Perry, N. Y. Carving machine. 1,686,960; Oct. 9.
Cragg, George L., Chicago, Ill., assignor to H. A. Douglas, Bronson, Mich. Combined lighting and signaling mechanism for automotive vehicles. 1,686,600; Oct. 9.
Crawford, McGregor and Canby Company, The. (See Mattern, George W., assignor.)
Crescent Stove Works. (See Diekmann, Edwin F., assignor.)
Crichton, Leslie N., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective relay. 1,686,653; Oct. 9.
Crocker, Thomas F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,687,325; Oct. 9.
Cromwell Oliver C. (See Emerson, G. H., and Cromwell.)
Crone, Charles H., Titusville, Pa. Combined centering, babbitting and machining device. 1,686,845; Oct. 9.
Cross, Charles S., deceased, Brooklyn, N. Y.; A. B. Boyer, administrator. Educational top. 1,687,239; Oct. 9.
Crouse, George B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Battleship compass. 1,686,518; Oct. 9.
Crowe, John M., Covington, Ky. Rivet-cutting gun. 1,687,326; Oct. 9.
Culp, John F., assignor to Ideal Lubricator Company, Philadelphia, Pa. Grease cup. 1,686,801; Oct. 9.
Culver, Charles A., Northfield, Minn., assignor to Wired Radio, Inc., New York, N. Y. Microphone. 1,686,901; Oct. 9.
Cummings, Ross. (See Pike, R. D., and Cummings.)
Currier, Arthur L., New Ipswich, N. H. Chuck. 1,686,601; Oct 9.
Cutler-Hammer Mfg. Co., The. (See Hutton, U. O., and Schmidt, assignors.)
Cutler-Hammer Mfg. Co., The. (See Lockett, Ralph G., assignor.)
Cutler-Hammer Mfg. Co., The. (See Seeger, Edwin W., assignor.)
Cutler, Frank W., Portland, Oreg. Conveyer. 1,686,519; Oct. 9.
Czapek, Emil, and R. Weingand, Bomlitz, near Walsrode, Germany. Detaching hollow flexible bodies from their molds. 1,687,282; Oct. 9
Daellenbach, Carl R., assignor to R. E. Daellenbach, Ellwood City, Pa. Battery heater. 1,687,196; Oct. 9.
Daellenbach, Raymond E. (See Daellenbach, Carl R., assignor.)
Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)
Dalrymple, William P., Chicago, Ill. Semaphoric indicator. 1,686,735; Oct. 9.
Daly, Wilfrid A., Yonkers, N. Y., and E. L. Dunn, East Orange, N. J., assignors to Otis Elevator Company, Jersey City, N. J. Switching mechanism. 1,686,683; Oct. 9.
Datson, Roy G., Chicago, Alaska. Stenogauge. 1,687,429; Oct. 9.
Davenport, James T., Galesburg, Ill. Adjustable plow and shovel. 1,686,961; Oct. 9.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Leno motion for looms. 1,687,363; Oct. 9.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Loom-stopping mechanism. 1,687,471; Oct. 9.
Davis, Lee I., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Control system for elevators. 1,686,684; Oct. 9.
Davison, Frank G., Cambridge, assignor, by meane assignments, to A. H. Parker, Lexington, Mass. Cau-cover hinge. 1,686,736; Oct. 9.
Dawson, Emma R., et al. (See Strickland, Clarence E., assignor.)
Deagan, J. C., Inc. (See Deagan, John C., assignor.)
Deagan, John C., assignor to J. C. Deagan, Inc., Chicago, Ill. Sound-producing instrument. 1,686,602; Oct. 9.
Deakins, Grover C., Anaheim, Calif. Pump valve. 1 687,008; Oct. 9.
De Bellescize, Henri J. J. M. de R., Paris, France. Anti-parasite receiver for wireless communication systems. 1,687,061; Oct. 9.
De Bellescize, Henri J. J. M. de R., Toulon, France. Filter for high-frequency oscillations. 1,687 062; Oct. 9.
De Bellescize, Henri J. J. M. de R., Paris, France. Electric signaling. 1,687,063; Oct. 9.
De Boer, Rudolph, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Container. 1,687,327; Oct. 9.
Decarie Incinerator Corporation. (See Buffington, John R., assignor.)
Deckel, Friedrich, and M. Geiger, Munich, assignors to the Firm: Friedrich Deckel, Präzisionsmechanik und Maschinenbau, Munich, Bavaria, Germany. Camera shutter. 1,687,123; Oct. 9.
Deckel, Friedrich, Präzisionsmechanik und Maschinenbau. (See Deckel, F., and Geiger, assignors.)
De Forest, Lee, New York, N. Y., assignor to De Forest Radio Telephone & Telegraph Company, Jersey City, N. J. Radio transmitting system. 1 687 364; Oct. 9.
De Forest Radio Telephone & Telegraph Company. (See De Forest, Lee, assignor.)
Delco-Light Company. (See Shew, Walter E., assignor.)
Delco-Remy Corporation. (See Chryst, William A., assignor.)
Delco-Remy Corporation. (See Schrope, William D., assignor.)
D'Ellia, Joseph, A., Bridgeport, Conn. Oil burner. 1 687,328; Oct. 9.
De Malherbe, Carlos, Buenos Aires, Argentina. Speed-indicating mechanism for vehicles. 1,686,623; Oct. 9.
Deming Company, The. (See Trisler, George E., assignor.)
Deninson, Jacob Z. A., New York, N. Y. Testing vision. 1,686,962; Oct. 9.
Deppeler, John H., Weehawken, assignor to Metal & Thermit Corporation, Carteret, N. J. Welding high-carbon steel. 1,686,603; Oct. 9.
Dester, William F., Newark, assignor to U. S. Tool Co., Inc., East Orange, N. J. Selective igniter for multiple gas burners. 1,686,604; Oct. 9.
Detroit Steel Products Co. (See Barclay, Gustaf I., assignor.)
Deutscher, William, New York, N. Y. Floor cleaner. 1,687,283; Oct. 9.

Dexter Folder Company. (See Belluche, Elmer W., assignor.)
Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)
Dick, A. B. Company. (See Green, Charles F., assignor.)
Dictaphone Corporation. (See Lucarelle, Joseph M., assignor.)
Diekmann, Edwin F., Evansville, Ind., assignor to Crescent Stove Works. Heating stove. 1,687,430; Oct. 9.
Dienner, John A. (See Cole, Don, assignor.)
Dike, George P., Brookline, Mass. Wrist watch. 1,687,365; Oct. 9.
Dilatush, Charles N., Lebanon, Ohio, assignor of one-half to W. H. Dilatush, Memph's, Tenn., and F. A. Dilatush, Lebanon, Ohio. Safety deposit vault. 1,687,431; Oct. 9.
Dilatush, Frank A., et al. (See Dilatush, Charles N., assignor.)
Dilatush, William H., et al. (See Dilatush, Charles N., assignor.)
Domino System Co., The. (See Burke, Walter B., assignor.)
Donning, George W., Bridgeport, Conn. Charge-forming structure for internal-combustion motors. 1,686,737; Oct. 9.
Doolittle, Robert L., and W. C. Hunter Montgomery, Ala. Reverse-gear actuator. 1,687,366; Oct. 9.
Dorado Club Beverage Co. (See White, Fred C., assignor.)
Dorman, William R., W. V. Suydam, and D. R. Stoneleigh, assignors to Johnson & Johnson, New Brunswick, N. J. Emergency applicator and producing it. 1,687,472; Oct. 9.
Douglas, Harry A. (See Gragg, George L., assignor.)
Douglas, Harry A. (See Watts, Felix J., assignor.)
Dow, Alva M., Braintree, Mass., assignor of one-half to R. I. Johns, Brooklyn, N. Y. Spraying apparatus. 1,687,085; Oct. 9.
Dräger, Alexander B. (See Christensen, Alfred H. L., assignor.)
Dräger, Elfriede (née Stange), executrix. (See Christensen, Alfred H. L., assignor.)
Drake, Herbert W., East Orange, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Composite signaling system. 1,687,432; Oct. 9.
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Hunter, Rufus C., assignor.)
Draper Corporation. (See Reece, James R., assignor.)
Draper Corporation. (See Stafford Alfred E., assignor.)
Draper Corporation. (See Stimpson, Wallace I., assignor.)
Drexler, Joseph J., and H. H. Munson, assignors to Sargent & Company, New Haven, Conn. Detent mechanism for door closers and the like. 1,687,009; Oct. 9.
Drucker, Julius, Cologne, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purifying brine to be used in electrolytic processes. 1,687,433; Oct. 9.
Dry, Meyer. (See Oxhandler, Leopold, assignor.)
Dubbs, Carbon P., Wilmetter, assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbon oils. 1,686,654; Oct. 9.
Dudfield, Alvin, Liberty, and G. P. Morris, Kansas City, Mo. Concrete-floor screed leveler. 1,686,902; Oct. 9.
Duerk, Frederick C., Defiance, Ohio. Ventilating apparatus. 1,687,156; Oct. 9.
Dugger, Charles M. (See Dugger, Oscar L. and C. M.)
Dugger, Oscar L. and C. M., assignors to Rotary Valve Company, Evansville, Ind. Rotary valve for explosive engines. 1,687,473; Oct. 9.
Dull, Fred C., assignor to The Monarch Machine Tool Company, Sidney, Ohio. Carriage stop mechanism for lathes. 1,686,743; Oct. 9.
Dunn, Edward L. (See Daly, W. A., and Dunn.)
Dunston, Wayne E., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Automobile bumper. 1,686,685; Oct. 9.
Du Pont, E. I., de Nemours & Company. (See Johnson, N. G., and Baker, assignors.)
Dura Company, The. (See Costello, William F., assignor.)
Dura Company, The. (See Haskins, Howard B., assignor.)
Durkee, Frederick M. (See Benson, E., and Durkee.)
Duro Company, The. (See Floraday, B. S., and Haskins, assignors.)
Dusold, Hulda, Milwaukee, Wis. Curtain fastener. 1,687,284; Oct. 9.
Eastern Rolling Mill Company, The. (See Hirschmann, Josef, assignor.)
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Clarke, H. T., and Malm, assignors.)
Eastman Kodak Company. (See Haste, James H., assignor.)
Eastman Kodak Company. (See Hodgson, Millard B., assignor.)
Eastman Kodak Company. (See Lovejoy, Frank W., assignor.)
Eastman Kodak Company. (See Seel, Paul C., assignor.)
Eastman Kodak Company. (See Sulzer, Albert F., assignor.)
Eastman Kodak Company. (See Van Doorn, Edward C., assignor.)
Eckersley, Thomas L., Danbury, Essex, England, assignor to Radio Corporation of America. Aerials for wireless signaling. 1,686,963; Oct. 9.
Eclipse Petrol Economiser System Company, The. (See Godward, Ernest R., assignor.)
Economy Baler Company. (See Langford, George W., assignor.)
Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Dressing attachment for hob-grinding machines and method of dressing grinding wheels. 1,686,802; Oct. 9.
Edison Electric Appliance Company. (See McCormick, Francis H., assignor.)
Edison, Thomas A., Incorporated. (See Edison, Thomas A., jr., assignor.)
Edison, Thomas A., jr., Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Ignition timer. 1,686,686; Oct. 9.
Edwards, Alonzo L., and J. A. McGinnis, Wheeling, W. Va., assignors to Wheeling Stamping Company. Apparatus and method for applying cork to caps. 1,686,687; Oct. 9.
Eggert, William, jr., Brightwaters, N. Y. Treating plants. 1,686,964; Oct. 9.
Eisenhardt, Frank J., Waukegan, Ill., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Brake lining. 1,686,903; Oct. 9.
Elder, Earl B. (See Morrison, R. F., and Elder.)
Electrecorder Corporation. (See Cooney, Peter A., assignor.)
Electric Service Supplies Company. (See McFarlin, John R., assignor.)
Electric Welding Company. (See Straub, James M., assignor.)
Elevator Supplies Company. (See Finnegan, Martin J., assignor.)
Ellerbeck, Ben B., Salt Lake City, Utah. Hanger. 1,686,655; Oct. 9.
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Elliott, Thomas, Birmingham, Ala., assignor to Continental Gin Company. Lock for cotton-press doors. 1,686,744; Oct. 9.
Ellis, Russell S., Philadelphia, Pa. Concrete structure. 1,686,738; Oct. 9.
Elto Outboard Motor Company. (See Evinrude, Ole, assignor.)
Ely, Hiram B., United States Army, Philadelphia, Pa. Sound-locating apparatus. 1,686,904; Oct. 9.
Emanuel, B. D., trustee. (See Six, Walter J., assignor.)
Emerson, George H., and O. C. Cromwell, Baltimore, Md. Water-tube fire box for locomotive boilers. 1,687,197; Oct. 9.
Emerson, Warren M., Chicago, Ill., assignor, by mesne assignments, to Certain-teed Products Corporation. Insulating material. 1,687,285; Oct. 9.
Emery, Plato G., Chicago, Ill. Curtain fixture. 1,686,739; Oct. 9.
Endicott Johnson Corporation. (See Cox, P., and McPartland, assignors.)
Endicott Johnson Corporation. (See Frey, Clarence W., assignor.)
Engels, Eugene O., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Safety device for gas-firing systems. 1,686,965; Oct. 9.
Engle, Edgar W., Lake Forest, and E. W. Lincoln, Chicago, assignors to Fansteel Products Company, Inc., North Chicago, Ill. Voltage regulator. 1,686,905; Oct. 9.
Engle, Edgar W., Lake Forest, and H. L. Olesen, Highland Park, assignors to Fansteel Products Company, Inc., North Chicago, Ill. Filament-voltage regulator. 1,687,474; Oct. 9.
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Epstein, Albert K., Chicago, Ill. Egg product and producing the same. 1,687,268; Oct. 9.
Epstein, Albert K., Chicago, Ill. Egg product and producing the same. 1,687,269; Oct. 9.
Epstein, Albert K., Chicago, Ill. Egg product and producing the same. 1,687,270; Oct. 9.
Erb, Irwin H., San Francisco, Calif. Pop-bottle whistle. 1,687,086; Oct. 9.
Ericson, Emile, Pelhamwood, N. Y., assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 76,526; Oct. 9.
Ericson, Emile, Pelhamwood, N. Y., assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 76,527; Oct. 9.
Ermold, Edward, New York, N. Y. Labeling machine. 1,686,605; Oct. 9.
Evans, Boyd V. (See Evans, Wellington F. and B. V.)
Evans, Wellington F. and B. V., Detroit, Mich. Bus body. 1,686,740; Oct. 9.
Everhart, Charles O., Girard, Ohio. Hydrocarbon burner. 1,686,846; Oct. 9.
Evinrude, Ole, assignor to Elto Outboard Motor Company, Milwaukee, Wis. Otnboard motor. 1,686,803; Oct. 9.
Faba, Luigi, Detroit, Mich. Safety lock for gas-stove valves. 1,686,906; Oct. 9.
Fairall, Harry K., assignor to Binocular Stereoscopic Film Company, Los Angeles, Calif. Film-developing machine. 1,686,907; Oct. 9.
Fairchild, Frank E., Red Bank, N. J., assignor to American Telephone and Telegraph Company. Stabilization of circuit output. 1,686,552; Oct. 9.
Famous Players-Lasky Corporation. (See Pomeroy, Roy J., assignor.)
Fannin, Charles M., Winona, W. Va. Tire rack. 1,686,741; Oct. 9.
Fansteel Products Company. (See Engle, E. W., and Lincoln, assignors.)

Fansteel Products Company. (See Engle, E. W., and Olesen, assignors.)
Fansteel Products Company. (See Stryker, Clinton E., assignor.)
Farch, Mogens, Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Elevator-car construction. 1,687,087; Oct. 9.
Fechheimer, Carl J., Pittsburgh, Pa., assignor to Western Electric & Manufacturing Company. Pressure meter. 1,686,688; Oct. 9.
Federal Mogul Corporation. (See Leyland, John, assignor.)
Federbush, Charles. (See Federbush, Max W. and J. D., and Baxter and Federbush.)
Federbush, Jacob D. (See Federbush, Max W. and J. D., and Baxter and Federbush.)
Federbush, Max W. and J. D., and D. J. and T. R. Baxter, and C. Federbush, New York, N. Y. Magazine binder. 1,687,434; Oct. 9.
Feeley, Frank G., Chicago, Ill., assignor to M. D. Knowlton Company, Rochester, N. Y. Paper-box-making machine. 1,687,289; Oct. 9.
Feeley, Frank G., Chicago, Ill., assignor to M. D. Knowlton Company, Rochester, N. Y. Blank-feeding mechanism. 1,687,290; Oct. 9.
Ferrari, Plinio, Milan, Italy, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Safety device for traction operation. 1,687,088; Oct. 9.
Field, Lloyd M. (See Wiedmaier, Arthur A., assignor.)
Files, Adino F., Maumee, Ohio. Dispensing machine. 1,686,804; Oct. 9.
Filloon, Forest F., Minneapolis, assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn. Mandrel. 1,687,329; Oct. 9.
Finnegan, Martin J., New York, N. Y., assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Elevator signal system. 1,686,606; Oct. 9.
Firestone Steel Products Company, The. (See Brink, Winfield S., assignor.)
Firstone Tire and Rubber Company, The. (See Brown, Roy W., assignor.)
Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
Firestone Tire and Rubber Company, The. (See Stevens, William C., assignor.)
Fish, Albert L. (See Higgins, H., Fish, and O'Hare.)
Fisk Rubber Company, The. (See Castricum, Martin, assignor.)
Fisk Rubber Company, The. (See Lehman, Paul W., assignor.)
Fisk Rubber Company, The. (See Little, Thomas P., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fitch, Bessie M., executrix. (See Fitch, Edward H.)
Fitch, Edward H., deceased, Hudson, Ohio, B. McP. Fitch, executrix, assignor to The B. F. Goodrich Company. Resilient vehicle tire. 1,687,330; Oct. 9.
Flagstad, Cornell, assignor of 95 per cent to The Folding Crate and Box Co., and 2½ per cent to O. A. Flagstad, Minneapolis, Minn. Collapsible crate. 1,687,331; Oct. 9.
Flagstad, Oscar A., et al. (See Flagstad, Cornell, assignor.)
Flam, Stephen, Walnut Park, assignor to Supertile Machinery Corporation, Los Angeles, Calif. Multiple mold. 1,687,010; Oct. 9.
Flanagan, William B., Brooklyn, N. Y. Vegetable receptacle. Des. 76,535; Oct. 9.
Flanigan, John J., Chicago, Ill. Duplicating machine. 1,687,157; Oct. 9.
Fleetwood, Claude A., and W. H. Lysinger, Fort Dodge, Iowa, assignors to McLaughlin Coal Reduction Company, Decatur, Ill. Fuel feeder. 1,687,435; Oct. 9.
Fleischmann, Lionel, Berlin-Wilmersdorf, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Loud speaker. 1,687,011; Oct. 9.
Fletcher, Samuel S., Nottingham, England. Milanese machine. 1,686,847; Oct. 9.
Flintkote Company, The. See Cady, Walter H., assignor.)
Flodin, Oscar H. (See Chase, G. H., and Flodin.)
Floraday, Burton S., and H. B. Haskins, Toledo, Ohio, assignors to The Duro Company, Toledo, Ohio. Window regulator. 1,687,481; Oct. 9.
Florida Citrus Exchange. (See Moscrip, John, assignor.)
Folding Crate and Box Co., The, et al. (See Flagstad, Cornell, assignor.)
Foote-Reynolds Company. (See Kindel, Charles J., assignor.)
Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Continuous-feed platen. 1,687,332; Oct. 9.
Foreman, Lemuel R., Elizabeth City, N. C. Attachment for sawmill edgers. 1,686,966; Oct. 9.
Forg, Frederick E., Arlington, Mass. Door catch. 1,686,805; Oct. 9.
Forker, Major T. (See Roberts, M. H., and Forker.)
Formánek, František, and L. and E. Zeman, Bratislava, Czechoslovakia, Aerohelicopter. 1,687,198; Oct. 9.
Fort, Pierre, Kernan, Ill. Envelope. 1,687,436; Oct. 9.
Fort Wayne Corrugated Paper Company. (See Nickerson, Orva O., assignor.)
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltmeter. 1,686,689; Oct. 9.
Forth, Michael J., Dorchester, Mass. Bottle washer. 1,687,012; Oct. 9.
Foster, Frank, Kansas City, Mo. Crease retainer. 1,687,158; Oct. 9.
Foster, Harry C., assignor to Indiana Lamp Corporation, Connersville, Ind. Lens for headlights. 1,686,908; Oct. 9.
Fowler, Herbert C., Columbus, Ohio. Eye protector. 1,686,848; Oct. 9.
Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Method and apparatus for surfacing plate glass. 1,686,742; Oct. 9.
Fox, Ralph P., Harrisburg, Pa. Mooring means for airships. 1,686,806; Oct. 9.
Fox, Richard W., Birmingham, Ala. Tube closure. 1,686,520; Oct. 9.
Francis, Jacob R. (See Redmond, Albert G., assignor.)
Franklin Furniture Company. (See Smith, Lathrop F., assignor.)
Franklin Railway Supply Company. (See Roberts, M. H., and Forker, assignors.)
Franklin Simon & Company. (See Burns, Katherine E., assignor.)
Frauenheim, Aloysius M., Pittsburgh, Pa. Fluid valve. 1,686,849; Oct. 9.
Frayne, John G., Yellow Springs, Ohio, and F. D. Moran, Chicago, Ill. Oscillation-retarding device. 1,686,909; Oct. 9.
Frease, Hurxthal F., Canton, Ohio. Lever arch. 1,686,910; Oct. 9.
Frederickson, Otto A., Wethersfield, Conn., assignor to National Electric Products Corporation, Pittsburgh, Pa. Armored electric cable. 1,687,013; Oct. 9.
Fredlund, Rognor F., Portland, Oreg. Paper-dispensing device. 1,686,911; Oct. 9.
Freer, Phelps M., Detroit, Mich. Liquid-flow regulator. 1,687,286; Oct. 9.
Freitag, Charles C. (See Osborne, J. W., and Freitag.)
French, Rainsford, Washington, D. C. Traffic signal. 1,686,850; Oct. 9.
Freund, Walter L., and F. B. Menner, St. Louis, Mo. Baker's machinery. 1,686,607; Oct. 9.
Frey, Clarence W., assignor to Endicott Johnson Corporation, Endicott, N. Y. Sole for boots and shoes. Des. 76,528; Oct. 9.
Frey, Karl. (See Myer, A., and Frey.)
Frink Company, The. (See Holmes, James T., assignor.)
Frisch, Martin, St. Louis, Mo., assignor to International Combustion Engineering Corporation, New York, N. Y. Fuel drier. 1,686,690; Oct. 9.
Furmanik, Giuseppe, assignor to G. A. Calabi, Rome, Italy. Device for facilitating the spreading of parachutes. 1,687,064; Oct. 9.
Gamewell Company, The. (See Suren, Nathan H., assignor.)
Gammeter, Harry C., Cleveland Heights, Ohio. Pyrotechnic alarm and system involving the same. 1,687,159; Oct. 9.
Garbell, Max, assignor to Victor Adding Machine Company, Chicago, Ill. Key-button assembly. 1,686,608; Oct. 9.
Garland, Claude M., Chicago, Ill. Unit heater. 1,687,240; Oct. 9.
Gaspari, Joseph, New York, N. Y. Spectacle frame. Des. 76,529; Oct. 9.
Gatchell, Frederick D., New York, N. Y. Apparatus for dispensing lubricants. 1,687,014; Oct. 9.
Gates, Elisha A., assignor of one-half to F. G. Vila, San Diego, Calif. Combined license and number plate holder. Des. 76,530; Oct. 9.
Gebr. Ebart. (See Pleyer, Anton, assignor.)
Geddes, William L., Montclair, N. J. Headlight. 1,686,656; Oct. 9.
Geiger, Martin. (See Deckel, F., and Geiger.)
Gemmer Manufacturing Company. (See Marles, Henry, assignor.)
General Cable Corporation. (See Wodtke, Hans V., assignor.)
General Laundry Machinery Corporation. (See Bryson, T. A., and McKeon, assignors.)
Georgelis, James H., Allston, Mass. Sole and heel trimming machine. 1,687,437; Oct. 9.
Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches. (See Fleischmann, Lionel, assignor.)
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Osnos, Mendel, assignor.)
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 1,687,199; Oct. 9.
Getz, Benjamin E., assignor, by mesne assignments, of one-half to Getz Power Washer Co., Morton, Ill., and one-half to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Washing machine. 1,686,657; Oct. 9.
Getz, Phares A., Portland, Oreg. Check-fold spreader. 1,687,438; Oct. 9.
Getz Power Washer Co., et al. (See Getz, Benjamin E., assignor.)
Gibson, William H., Los Angeles, Calif. Support for inkstands and the like. Des. 76,531; Oct. 9.
Giese, Karl. (See Böhme, K., and Giese.)
Gillenwaters, Frank M., Leavenworth, assignor of forty one-hundredths to W. R. Sweet, Independence, and twenty per cent to A. W. Stanley, Leavenworth, Kans. Automobile lock. 1,687,475; Oct. 9.

Gillette, Harry S., assignor to Gillette Motor Products Corporation, New York, N. Y. Rack-action radiator cap. 1,687,482; Oct. 9.
Gillette Motor Products Corporation. (See Gillette, Harry S., assignor.)
Gilmour, William S. (See Lynch, J. M., and Gilmour.)
Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,687,124; Oct. 9.
Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,687,125; Oct. 9.
Ginsbach, Felix, Luxemburg, Luxemburg, assignor to H. Horst, Berlin-Charlottenburg, Germany. Treatment of peat. 1,686,807; Oct. 9.
Girlich, Steve M., Chicago, Ill. Combination window guard and draft deflector. 1,687,439; Oct. 9.
Glacken, John A., Norwich, Conn. Sled. 1,686,745; Oct. 9.
Gleason Works. (See Candee, A. H., and Johanson, assignors.)
Gleason Works. (See Hartman, Herbert G., assignor.)
Gleason Works. (See Head, Ernest C., assignor.)
Glendon, Thomas A., jr., New York, N. Y. Leather or similar article. Des. 76,532; Oct. 9.
Glessner, Charles E., Portland, Oreg. Smelting apparatus. 1,686,912; Oct. 9.
Gloekler, John E., Pittsburgh, Pa. Ice container for cabinet refrigerators. 1,687,440; Oct. 9.
Glorioso, Robert. (See Orlando, Joseph F., assignor.)
Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,686,808; Oct. 9.
Godfrey, Elmore M., jr., Knoxville, Tenn. Worktable for pneumatic-tire repairing. 1,686,553; Oct. 9.
Godward, Ernest R., New York, N. Y., assignor to The Eclipse Petrol Economiser System Company, Limited, Christchurch, New Zealand. Vaporizer. 1,686,609; Oct. 9.
Godward, Ernest R., New York, N. Y., assignor to The Eclipse Petrol Economiser System Company, Limited, Christchurch, New Zealand. Producing dry gaseous fuel. 1,686,610; Oct. 9.
Godward, Ernest R., New York, N. Y., assignor to The Eclipse Petrol Economiser System Company, Limited, Christchurch, New Zealand. Vaporizer. 1,686,611; Oct. 9.
Goetti, John, et al., trustees. (See Balnojan, Peter, assignor.)
Goetti, Karl, et al., trustees. (See Balnojan, Peter, assignor.)
Goldsmith, Bertram J., and E. Koeb, New York, assignors to Perfect Window Regulator Corporation, Long Island City, N. Y. Window construction. 1,687,015; Oct. 9.
Goldsmith, Hugo, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Football protective harness. 1,687,126; Oct. 9.
Goldsmith, P., Sons Company, The. (See Goldsmith, Hugo, assignor.)
Goodman, Robert H., Romance, Ark. Cultivator. 1,678,200; Oct. 9.
Goodrich, B. F., Company, The. (See Fitch, Edward H., assignor.)
Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)
Goodroad, Frank A. E., Canton, S. Dak. Signaling apparatus for vehicles. 1,686,691; Oct. 9.
Gorman, Charles W., Muskogee, Okla. Door-operating mechanism. 1,686,851; Oct. 9.
Gorman, Charles W., Muskogee, Okla. Electric switch. 1,686,852; Oct. 9.
Gormley, Frank L., Brookline, Mass., assignor to The Buda Company, Harvey, Ill. Brake mechanism for lifting jacks. 1,687,127; Oct. 9.
Gossman, Carl, Glenwood, Ill. Bumper. 1,687,287; Oct. 9.
Graham, Charles T., Grand Rapids, Mich., assignor to American Parlor Frame Company, Sheboygan, Wis. Settee frame or similar article. Des. 76,533; Oct. 9.
Graham, Charles T., Grand Rapids, Mich., assignor to American Parlor Frame Company, Sheboygan, Wis. Settee frame or similar article. Des. 76,534; Oct. 9.
Graham, Frank M., Bellmore, N. Y. Automobile signal. 1,687,291; Oct. 9.
Graham, William P., New York, N. Y. Dish or similar article. Des. 76,536; Oct. 9.
Graham, William P., New York, N. Y. Dish or similar article. Des. 76,537; Oct. 9.
Grand Rapids Metalcraft Corporation. (See De Boer, Rudolph, assignor.)
Grant, Albert E., New York, N. Y. Oil strainer. 1,687,292; Oct. 9.
Grasselli Dyestuff Corporation. (See Stein, Berthold, assignor.)
Grau, George A., Cincinnati, Ohio. Came. 1,686,809; Oct. 9.
Gray, Charles B., Philadelphia, Pa. Violin bow. 1,686,554; Oct. 9.
Green, Arthur E., Endicott, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Seam-pressing machine. 1,686,810; Oct. 9.
Green, Charles F., Romford, England, assignor to A. B. Dick Company, Chicago, Ill. Controlling the travel of the ink ribbon used with rotary printing machines. 1,687,016; Oct. 9.
Green, Richard D., assignor to John A. Roebling's Sons Company, Trenton, N. J. Sawing wire. 1,687,089; Oct. 9.
Greenhouse, Samuel, Akron, Ohio. Bottle-filling machine. 1,686,811; Oct. 9.
Greist Manufacturing Company, The. (See Carmichael, Andrew J., assignor.)
Grimes, Lester A., Montclair, N. J., assignor to Grimes Sprinkler Company, Inc., Newark, N. J. Rotary alarm device. 1,686,692; Oct. 9.
Grimes Sprinkler Company. (See Grimes, Lester A., assignor.)
Grindle, Earle L., Ellsworth, Me. Marine engine. 1,687,288; Oct. 9.
Griswold, Glenn G., Madison, Ohio. Emulsified food product. 1,686,556; Oct. 9.
Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for causing intermittent operation of electroresponsive devices. 1,687,017; Oct. 9.
Grosjean, James E., Lima, Ohio. Tread material and making the same. 1,687,441; Oct. 9.
Grover, William H., Maumee, and C. E. Merritt, and W. S. Pooley, Toledo, Ohio. Signal means for elevators, etc. 1,686,693; Oct. 9.
Grupe, William F., Lyndhurst, N. J., assignor to Peerless Roll Leaf Co., Inc., New York, N. Y. Variable feeding mechanism. 1,687,241; Oct. 9.
Gulseth, Esther O., Yoman, Wash. Foldable milking-pail holder. 1,687,242; Oct. 9.
Guy, Charles G., Vancouver, British Columbia, Canada. Nautical position finder. 1,687,018; Oct. 9.
Gysels, Joseph, San Francisco, Calif. Torch-soldering iron. 1,686,747; Oct. 9.
H. & H. Calculating Corporation. (See Hunau, A., and Hannalian, assignors.)
Hackstedde, Herbert H., Cincinnati, Ohio. Apparatus for rounding up lumps of plastic material. 1,686,853; Oct. 9.
Hagan, Lillian P., Oakland, Calif. Door knocker. Des. 76,538; Oct. 9.
Hagen, John, Bend, Oreg. Brushing machine. 1,687,201; Oct. 9.
Hagey, James C., assignor to The Cable Company, Chicago, Ill. Method and apparatus for preparing music rolls. 1,686,557; Oct. 9.
Haines, George D., Park Ridge, assignor to Porcelain Tile Company, Chicago, Ill. Tiled wall or the like. 1,686,812; Oct. 9.
Haines, William H., Thompsontown, Pa. Lawn mower. 1,687,202; Oct. 9.
Hall, Charles S., Los Angeles, Calif. Aircraft. 1,687,203; Oct. 9.
Hall, Charles S., Oakland, Calif. Gas-storage system for aircraft. 1,687,204; Oct. 9.
Hall, Earl K. (See Buckert, H. A., and Hall.)
Hall, Francis C., New York, N. Y. Combination stool, chair, and table. 1,687,128; Oct. 9.
Hall, Ralph E., Pittsburgh, assignor to J. M. Hopwood, Dormont Borough, Pa. Filtration of alkaline waters. 1,686,558; Oct. 9.
Hallberg, August W., assignor to Chase Companies, Inc., Waterbury, Conn. Lavatory fixture. 1,687,019; Oct. 9.
Hamlin, Charles R., Chicago, Ill. Display stand. 1,687,205; Oct. 9.
Hammalian, Paul. (See Hunau, A., and Hammalian.)
Hammond, John H., jr. (See Trenor, Albert D., assignor.)
Hammond, John H., jr., Gloucester, Mass., and A. D. Trenor, New York, N. Y.; said Trenor assignor to said Hammond. Odometer. 1,686,854; Oct. 9.
Hanauer, Darwin, La Grange, Ill., assignor to Kinney Rome Company. Machine for tying knots in spiral springs. 1,687,476; Oct. 9.
Hanley, John W. H., New York, N. Y. Radio loud speaker. 1,687,293; Oct. 9.
Hansen, Sinius M., assignor, by mesne assignments, to A T Oil Burner Co., Lynn, Mass. Pilot for liquid-fuel-burning apparatus. 1,686,855; Oct. 9.
Hanson, John P., Butte, Mont. Signal for automobiles. 1,687,065; Oct. 9.
Hansson, Soren, Butler, Pa. Friction draft gear. 1,686,612; Oct. 9.
Harber, Laurence S., White Plains, N. Y., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Air-cooling means for mixing devices. 1,686,967; Oct. 9.
Harber, Laurence S., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Pan-greasing machine. 1,686,968; Oct. 9.
Hardin, Frank H., Bronxville, N. Y. Car construction. 1,686,748; Oct. 9.
Hardley, Frank J., Los Angeles, Calif. Pulley. 1,687,442; Oct. 9.
Harpfer, Fred A., assignor to Central Glass Works, Wheeling, W. Va. Candy box. Des. 76,539; Oct. 9.
Harrington, Alfred L., Rosslyn Farms, Pa., assignor to Pittsburgh Plate Glass Company. Driving mechanism for work spindles. 1,686,746; Oct. 9.
Harris, Robert, assignor of one-half to Pictorial Machinery Limited, London, England. Duplicating or printing apparatus and particularly photographic step-and-repeat contact-printing apparatus. 1,686,559; Oct. 9.
Harrison, Lloyd G., Chicago, Ill. Folding egg carton. 1,686,521; Oct. 9.

Harrison Radiator Corporation. (See Muir, Wellington W., assignor.)
Harrison, William, and E. E. Lunceford, San Bernardino, Calif. Fixture. 1,686,856; Oct. 9.
Hartman, Herbert G., assignor to Gleason Works, Rochester, N. Y. Gear-cutting machine. 1,686,522; Oct. 9.
Hasbrouck, Louis, Amherst, Mass. Confection. Des. 76,540; Oct. 9.
Haskin, Walter E., New York, assignor to Pressed and Welded Steel Products Company, Long Island City, N. Y. Bookstand. 1,687,443; Oct. 9.
Haskin, Walter E., New York, N. Y., assignor to Pressed & Welded Steel Products Company, Long Island City, N. Y. Bookstand. 1,687,444; Oct. 9.
Haskins, Howard B. (See Floraday, B. S., and Haskins.)
Haskins, Howard B., assignor to The Dura Company, Toledo, Ohio. Lock for window regulators. 1,687,243; Oct. 9.
Haste, James H., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture-film strip. 1,687,066; Oct. 9.
Hatvani, Gabriel, Medina, Ohio. Spring tire. 1,687,206; Oct. 9.
Hauser, Alois, and P. Wallin, assignors to The Timken Roller Bearing Company, Canton, Ohio. Gauging machine. 1,686,694; Oct. 9.
Hawker, Wilson S., Dayton, Ohio. Dowel pin and method of manufacture. 1,687,207; Oct. 9.
Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Hose coupling. 1,687,445; Oct. 9.
Head, Drew, Chicago, Ill. Air cleaner. 1,687,090; Oct. 9.
Head, Ernest C., assignor to Gleason Works, Rochester, N. Y. Machine for producing gears. 1,686,523; Oct. 9.
Headley, Frederick H., Northfield, near Birmingham, England. Chair construction. 1,687,333; Oct. 9.
Headley, Frederick H., Birmingham, England. Pedal-propelled vehicle. 1,687,334; Oct. 9.
Heatley, Edward P., New York, N. Y. Catch-basin cleaner. 1,686,658; Oct. 9.
Hebden, George R., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Switch box. 1,686,969; Oct. 9.
Hedgcock, James A., assignor to The Management Engineering and Development Company, Dayton, Ohio. Flow regulation. 1,687,446; Oct. 9.
Hein, George N., San Francisco, Calif. Syringe. 1,687,091; Oct. 9.
Heisel, Ralph E., Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Paper-making machinery. 1,687,447; Oct. 9.
Helsing, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,687,244; Oct. 9.
Helsing, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Amplifying. 1,687,245; Oct. 9.
Heisser, Otto E., Chicago, Ill. Portable heating cabinet. 1,686,613; Oct. 9.
Henemier, Robert H., New York, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Deflating valve cap. 1,686,659; Oct. 9.
Henninger, Nicholas, Syracuse, N. Y. Necktie holder. 1,687,129; Oct. 9.
Heon, Horace C., assignor to Automotive Maintenance Machinery Co., Chicago, I.. Universal joint. 1,686,695; Oct. 9.
Herzog, Milton H., Chicago, Ill.. Ring. 1,687,020; Oct. 9.
Hickey, John H., San Francisco, Calif. Renewable fuse. 1,687,246; Oct. 9.
Hickey, John H., San Francisco, Calif. Refillable fuse. 1,687,247; Oct. 9.
Hickman, John B. (See Stockham, J. B., and Hickman.)
Higgins, Harlin, A. L. Fish, and J. L. O'Hare, Faith, S. Dak. Automobile crank-case drainer. 1,686,749; Oct. 9.
Hight, William R., Hollis, assignor to The Sperry Gyroscope company, New York, N. Y. Gyroscopic compass. 1,686,524; Oct. 9.
Hildreth, Ossion H., Wilton, Me. Circular saw. 1,687,448; Oct. 9.
Hiley, Alfred, Rickmansworth, assignor to The British Steel Piling Company, Limited, Westminster, England. Construction of concrete piles. 1,686,660; Oct. 9.
Hill, Harold O., Aspinwall, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Tower construction. 1,687,449; Oct. 9.
Hillard, Frederic W., Tottenville, N. Y. Paper finger for typewriting machines. 1,687,208; Oct. 9.
Hills, Ernest E., Oshkosk, Wis. Windshield for vehicles. 1,687,367; Oct. 9.
Himes, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pipe-threading machine. 1,686,661; Oct. 9.
Hinman, Robert M., assignor to The State Foundry and Pattern Company, Akron, Ohio. Apparatus for casting molds or the like. 1,687,450; Oct. 9.
Hinton, George B., Mexico City, Mex. Making cellular cementitious materials. 1,687,067; Oct. 9.
Hirschmann, Josef, Baltimore, Md., assignor to The Eastern Rolling Mill Company. Heating furnace. 1,686,696; Oct. 9.
Hoadley, Alfred H., New York, N. Y. Water heater. 1,686,970; Oct. 9.
Hodgson, Millard B., assignor to Eastman Kodak Company, Rochester, N. Y. Dental X-ray package. 1,687,068; Oct. 9.
Hoe, R., & Co. (See Ball, Harry V., assignor.)
Hoe, R., & Co. Inc. (See Morris, E. T., and Mills, assignors.)
Hoellrigl, Joseph, Manchester, N. H. Combination vanity case and powder puff. 1,687,451; Oct. 9.
Hoey, Samuel C. (See Lauffer, F. P., and Hoey.)
Hofammann, Albert G., Allentown, Pa. Shuttle guard. 1,686,662; Oct. 9.
Holderegger, Walter. (See Steinlin, M., and Holderegger.)
Hollweck & Bauer. (See Brandt, Francis J., assignor.)
Holm, Erling T., Billingstad, near Oslo, Norway. Stone-dressing tool. 1,687,093; Oct. 9.
Holman, Arthur J., Boston, Mass. Angular-velocity stabilizer for rotatable gear-driven shafts. 1,686,857; Oct. 9.
Holmes, Frederick M., Springfield, assignor to Tryco Products, Inc., Westfield, Mass. Temperature and pressure relief valve. 1,687,209; Oct. 9.
Holmes, James T., Jamaica, assignor to The Frink Company, Inc., New York, N. Y. Lamp fixture. 1,686,663; Oct. 9.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Corporation. Hoisting mechanism. 1,686,971; Oct. 9.
Holsclaw, Harry E. (See Holsclaw, Walter E. and H. E.)
Holsclaw, Walter E. and H. E., Evansville, Ind. Pipe and tube bender. 1,687,210; Oct. 9.
Hood, James F. (See Mountford, Stanley F. and H. S., assignors.)
Hopwood, John M. (See Hall, Ralph E., assignor.)
Hopwood, John M. (See Smith, George W., assignor.)
Hopwood, William B., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Combined shoe sole and heel. Des. 76,541; Oct. 9.
Hopwood, William B., College Point, N. Y., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Nonslip sole. 1,687,294; Oct. 9.
Horner, Oliver E., San Diego, Calif. Convertiable automobile body. 1,687,021; Oct. 9.
Horst, Heinrich. (See Ginsbach, Felix, assignor.)
Horton, Elsie H., Minneapolis, Minn. Translucent decoration. 1,687,452; Oct. 9.
Hosler, Clarence A., Rolfe, Iowa. Ventilator for farm buildings. 1,686,858; Oct. 9.
Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)
Hough, Azel C., assignor to Hough Shade Corporation, Janesville, Wis. Venetian-blind appliance. 1,687,092; Oct. 9.
Hough Shade Corporation. (See Hough, Azel C., assignor.)
House, Frank R., Baldwin Harbor, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Searchlight shutter. 1,686,525; Oct. 9.
Houston, Harold A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Guide truck. 1,686,664; Oct. 9.
Hovey, Waldo C. (See Reid, H. S., and Hovey.)
Howell, Frank B., Buffalo, assignor to American Radiator Company, Chicago, Ill. Boiler. 1,687,160; Oct. 9.
Howlett, James M., Gary, Ind. Protective cover for bathtubs. 1,686,560; Oct. 9.
Hubbell, Harvey, Bridgeport, Conn., deceased; L. E. Hubbell, executrix. Socket shell. 1,686,813; Oct. 9.
Hubbell, Louie E., executrix. (See Hubbell, Harvey.)
Hubbs, Joshua. (See Hussey, James H., assignor.)
Hübner, Alfred, Berlin-Friedenau, assignor to Siemens & Halske, Berlin, Germany. Interference elimination. 1,687,295; Oct. 9.
Hughes, Patrick W., Charleston, W. Va. Wall bracket. 1,686,972; Oct. 9.
Hulsizer, William T., Clinton, N. J. Tooth for excavating shovels. 1,687,022; Oct. 9.
Hume, James H., Glasgow, Scotland. Air heater. 1,686,614; Oct. 9.
Hunau, Adolph, and P. Hammalian, assignors to H. & H. Calculating Corporation, New York, N. Y. Calculator. 1,687,130; Oct. 9.
Hunter, Rufus C., Graham, N. C., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,687,477; Oct. 9.
Hunter, William C. (See Doolittle, R. L., and Hunter.)
Huntington, Edward E., assignor to The Willys-Overland Company, Toledo, Ohio. Lighting system for automobiles. 1,686,859; Oct. 9.
Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Hospital latch. 1,687,248; Oct. 9.
Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,686,750; Oct. 9.
Hussey, James H., assignor of one-half to J. Hubbs, Spokane, Wash. Electrical heater. 1,686,860; Oct. 9.
Hutton, Ulric O., Wauwatosa, and E. X. Schmidt, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method of and apparatus for maintaining substantially constant the total heating value per unit volume of a flowing combustible mixture of fluids. 1,686,751; Oct. 9.
Hyde Engineering Company. (See Hyde, Henry W., assignor.)
Hyde, Henry W., North Cohasset, assignor to Hyde Engineering Company, Boston, Mass. Spring suspension for vehicles. 1,686,561; Oct. 9.

I. G. Farbenindustrie Aktiengesellschaft. (See Drucker, Julius, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Winkler, Fritz, assignor.)
Ide, Harry H., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Condenser. 1,686,814; Oct. 9.
Ideal Can Company. (See Blanchard, Forrest S., assignor.)
Ideal Lubricator Company. (See Culp, John F., assignor.)
Imes, Elmer S., Jersey City, N. J., assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y. Testing magnetizable objects. 1,686,815; Oct. 9.
Indiana Lamp Corporation. (See Foster, Harry C., assignor.)
Inland Manufacturing Company, The. (See Christman, Louis P., assignor.)
International Combustion Engineering Corporation. (See Frisch, Martin, assignor.)
International Combustion Engineering Corporation. (See Scott, Robert, assignor.)
International Combustion Engineering Corporation. (See Wood, Wilfred R., assignor.)
International Harvester Company. (See Randall, Parke, assignor.)
International Silver Company. (See Theobald, Jean G., assignor.)
Intertype Corporation. (See Peterson, William, assignor.)
Iser, Adalbert, Reichenberg, Czechoslovakia. Copying device for photographic purposes. 1,687,069; Oct. 9.
Isermann, Samuel, East Orange, N. J., and W. Vernet, New York, N. Y. Freezing-point depressant. 1,687,094; Oct. 9.
Jackline, Morley P., Atchison, Kans. Tool handle. 1,687,335; Oct. 9.
Jackson, Ephraim L., London, England. Treatment of sewage in sanitary closets. 1,687,336; Oct. 9.
Jackson, Percy, Chicago, Ill. Forming pipe closures. 1,686,562; Oct. 9.
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., 1,686,665; Oct. 9.
Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Purification of benzoic acid and its derivatives. 1,686,913; Oct. 9.
Jaeger, Frank J., Toledo, Ohio. Bumper for motor vehicles. 1,687,337; Oct. 9.
James, Henry D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,686,666; Oct. 9.
Jancke, Benno F., Brooklyn, assignor to Townsend Manufacturing Company, Inc., New York, N. Y. Pad for permanent waving of hair. 1,687,249; Oct. 9.
Jeffery Manufacturing Co., The. (See Levin, Nils D., assignor.)
Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Co., Toledo, Ohio. Work holder for brush machines. 1,687,250; Oct. 9.
Johanson, Magnus H. (See Candee, A. H., and Johanson.)
Johns-Manville Corporation. (See Eisenhardt, Frank J., assignor.)
Johns, Robert I. (See Dow, Alva M., assignor.)
Johnson, Arthur E., Taft, Calif. Oil-well cement-dump boiler. 1,687,161; Oct. 9.
Johnson, Chester F., Detroit, Mich. Carburetor. 1,687,131; Oct. 9.
Johnson, Christian, Chicago, Ill. Scraper. 1,686,816; Oct. 9.
Johnson, Einar A., Brooklyn, N. Y. System of counterbalances for motor cars. 1,687,296; Oct. 9.
Johnson, Frederick I., Warren, R. I., assignor, by mesne assignments, to G. W. Johnson, Boston, Mass. Conduit end fitting. 1,686,616; Oct. 9.
Johnson, George W. (See Carroll, E. J., and Johnson.)
Johnson, George W. (See Johnson, Frederick I., assignor.)
Johnson, Jarl A., Taft, Calif. Terminal protector for storage batteries. 1,686,817; Oct. 9.
Johnson, John C., St. Paul, Minn. Grass conveyer for lawn mowers. 1,686,563; Oct. 9.
Johnson & Johnson. (See Dorman, W. R., Suydam, and Stoneleigh, assignors.)
Johnson, Norman G., and S. G. Baker, jr., Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dynamite composition. 1,687,023; Oct. 9.
Johnson, Paul E., assignor to P. E. Johnson, Inc., Chicago, Ill. Therapeutic lamp. Des. 76,542; Oct. 9.
Johnson, Paul E., Inc. (See Johnson, Paul E., assignor.)
Jones, Charles, Long Beach, Calif. Baseball game. 1,687,162; Oct. 9.
Jones, Thomas H., Plainfield, N. J. Coffee urn. 1,687,095; Oct. 9.
Jones, Warren C., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone receiver. 1,687,211; Oct. 9.
Joseph, Arthur H., Detroit, Mich., assignor to The Mileometer Company, Chicago, Ill. Speedometer construction. 1,687,251; Oct. 9.
Juralewicz, Joseph, Meriden, Conn. Fume guard for cooking ranges. 1,686,617; Oct. 9.
Kadel, Byers W., Baltimore, Md. Car-door mechanism. 1,686,618; Oct. 9.
Kadel, Byers W., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Spring plank. 1,686,564; Oct. 9.
Kadel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Draft rigging. 1,687,163; Oct. 9.
Kanné, Alexander R., Brooklyn, N. Y., assignor to Kanné and Bessant, Inc., New York, N. Y. Bowl or similar article. Des. 76,543; Oct. 9.
Kanné and Bessant, Inc. (See Kanné, Alexander R., assignor.)
Karpf, Lester J., Dayton, Ohio. Apparatus for treating the feet. 1,687,368; Oct. 9.
Kaskey, Harry H., Chicago, Ill. Skate scabbard. 1,686,667; Oct. 9.
Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric locomotive. 1,686,697; Oct. 9.
Kaufman, Frederick B., Philadelphia, Pa. Bed. 1,687,338; Oct. 9.
Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle frame. 1,687,096; Oct. 9.
Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle frame. 1,687,097; Oct. 9.
Keen Waving Company. (See Unger, Ernest G., assignor.)
Keevers, Matthew J., Northampton, Mass. Device for forming golf tees. 1,687,024; Oct. 9.
Keller, Gottlieb, Brugg, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electrically-heated kiln. 1,687,025; Oct. 9.
Kelliher, Charles E., New York, N. Y. Power-driven scissors for barbers. 1,687,212; Oct. 9.
Kellogg Manufacturing Co. (See Hazard, George E., assignor.)
Kellogg Switchboard and Supply Company. (See Ide, Harry H., assignor.)
Kendall, William G., Newark, N. J. Vanity case. 1,686,973; Oct. 9.
Kennedy, Ernest N., London, England. Collapsible trunk, suitcase, and the like. 1,687,213; Oct. 9.
Kenyon, Frederick D., Minneapolis, assignor of one-half to H. R. Root, Hennepin County, Minn. Furnace attachment. 1,687,214; Oct. 9.
Kerr, Howard J. (See Lewis, N. E., and Kerr.)
Kesler, Lawrence M., Independence, Kans. Bendix housing. 1,686,861; Oct. 9.
Kilby, Charles B., and M. Reinitz, Brooklyn, and A. B. Cilson, assignors to The Prosperity Company, Inc., Syracuse, N. Y. Shirt-pressing machine. 1,686,619; Oct. 9.
Kindle, Charles J., assignor to Foote-Reynolds Company, Grand Rapids, Mich. Bed construction. 1,687,098; Oct. 9.
King, George A. (See Boden, G., and King.)
King, George A. (See Boden, G., King, and Chapman.)
King, Horace W., assignor to King-Seeley Corporation, Ann Arbor, Mich. Liquid-depth-indicating device. 1,687,216; Oct. 9.
King, Horace W., and W. E. Bandemer, assignors to King-Seeley Corporation, Ann Arbor, Mich. Liquid-depth-indicating device. 1,687,215; Oct. 9.
King, James W., assignor to The Tissue Company, Saugerties, N. Y. Napkin package. 1,686,802; Oct. 9.
King-Seeley Corporation. (See King, Horace W., assignor.)
King-Seeley Corporation. (See King, H. W., and Bandemer, assignors.)
Kingman, Russell B., Orange, assignor, by mesne assignments, to Metal Textile Corporation, West Orange, N. J. Scouring device. 1,686,863; Oct. 9.
Kingman, Russell B., Orange, N. J., assignor to Metal Textile Corporation. Scouring-soap cake. 1,686,864; Oct. 9.
Kinney Rome Company. (See Hanauer, Darwin, assignor.)
Kirkeby, John, San Luis Obispo, Calif. Automatic gear-shifting device. 1,686,914; Oct. 9.
Kirschbaum, Albert, Newark, N. J. Door. 1,686,819; Oct. 9.
Kirschbraun, Lester, Chicago, Ill. Apparatus for making paper. 1,686,818; Oct. 9.
Kjekstad, Johannes. (See Russell, Gordon W., assignors.)
Klein, Carl A., Brimsdown, and R. S. Brown, London, England. Manufacture of glass, sand, or flint paper, emery cloth, and like abrasives. 1,687,453; Oct. 9.
Klein, Carl A., Brimsdown, and R. S. Brown, London, England. Glass, sand, or flint paper, emery cloth, or like abrasive. 1,687,454; Oct. 9.
Klein, Francis A., Xenia, Ohio. Autosleigh. 1,687,455; Oct. 9.
Kleis Beverage Company, The, et al. (See Kleis, John, assignor.)
Kleis, C. E., Company, The, et al. (See Kleis, John, assignor.)
Kleis, John, assignor of one-half to The Kleis Beverage Company, Ann Arbor, Mich., and one-half to The C. E. Kleis Company, Dubuque, Iowa. Bottle. Des. 76,544; Oct. 9.
Kloos, Samuel, Alliance, Ohio. Automobile signal. 1,687,456; Oct. 9.
Klots, Alfred, Munich, Germany. Electric-heat applicator. 1,686,865; Oct. 9.
Knapp, James H., Los Angeles, Calif., assignor to Tate Jones & Company, Incorporated, Pittsburgh, Pa. Calcining furnace. 1,686,565; Oct. 9.
Kneher Muller Company. (See Muller, Otto, assignor.)

Knoth, George W. F. F., Hamburg, Germany. Obtaining alkaloids. 1,686,866; Oct. 9.
Knowlton, M. D., Company. (See Feeley, Frank G., assignor.)
Koch, Fred C. (See Winkler, L. E., and Koch.)
Koeb, Emil. (See Goldsmith, B. J., and Koeb.)
Koehring Company. (See Lichtenberg, Erich H., assignor.)
Koretzky, Harry M., Hoboken, N. J. Electric lamp and support therefor. 1,687,483; Oct. 9.
Krause, Gustav, Schneidemuhl, Germany. Foot support. 1,687,070; Oct. 9.
Kroger, Fred H., Brooklyn, N. Y., assignor to Radio Corporation of America. Rectifying and filtering system. 1,686,974; Oct. 9.
Kreider, Irvin K., Lancaster, Pa. Tractor cultivator. 1,687,457; Oct. 9.
Kuhn, Lewis O., Minneapolis, Minn. Gear pump. 1,686,867; Oct. 9.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,687,026; Oct. 9.
Kurtz, Philip, Philadelphia, Pa. Golf game board. 1,687,217; Oct. 9.
Kutarna, Jakob. Regina, Saskatchewan, Canada. Tandem bicycle. 1,687,218; Oct. 9.
La Bar, Bert G. (See Mylius, W. G., and La Bar.)
Lacy, William A., Springfield, Mass. Holder. 1,686,526; Oct. 9.
Laesker, Jean, assignor to Societe Anonyme Adolphe Saurer, Arbon, Switzerland. Machine for forming internal grooves in gears, etc. 1,687,252; Oct. 9.
Laminated Shim Company. (See Yordon, John C., assignor.)
Lancelot, William H., and J. A. Starrak, Ames, Iowa. Dish washer and drier. 1,687,458; Oct. 9.
Land, Charles H., Detroit, Mich. Tractor trailer. 1,686,698; Oct. 9.
Landis, Hugh G., San Francisco, Calif. Electric heater. 1,686,868; Oct. 9.
Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Weather-stripped metal window. 1,686,668; Oct. 9.
Lane, Franklin L., assignor to P. B. Yates Machine Company, Beloit, Wis. Woodworking machine. 1,686,915; Oct. 9.
Langenbaker, Sylvester A., San Francisco, Calif., assignor to Macbeth-Evans Glass Company, Charlerol, Pa. Glass jug. Des. 76,545; Oct. 9.
Langford, George W., assignor to Economy Baler Company, Ann Arbor, Mich. Baling press. 1,687,219; Oct. 9.
Lapointe, Francis J., Ann Arbor, Mich. Hydraulic broaching machine. 1,687,369; Oct. 9.
Larsen, Louis, East Orange, assignor to Sundh Electric Company, Newark, N. J. Support for electrical apparatus. 1,686,674; Oct. 9.
Larson, Carl O., Seattle, Wash. Automobile direction signal. 1,687,164; Oct. 9.
Larson, Charles L., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Rail bond. 1,687,297; Oct. 9.
Latour Corporation. (See Latour, Marius, assignor.)
Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Negative-impedance device. 1,687,253; Oct. 9.
Lauffer, Frank P., Irwin, and S. C. Hoey, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Rotor for induction motors. 1,686,699; Oct. 9.
Laughlin, Alexander, jr., deceased, Edgeworth; M. M. Laughlin and The Union Trust Co., executors, assignors to Central Tube Company, Pittsburgh, Pa. Method and apparatus for manufacturing tubes. 1,686,700; Oct. 9.
Laughlin, Alexander, jr., deceased, Edgeworth; M. M. Laughlin and The Union Trust Co., executors, assignors to Central Tube Company, Pittsburgh, Pa. Method and apparatus for the manufacture of tubes. 1,686,701; Oct. 9.
Laughlin, Margaret M., et al., executors. (See Laughlin, Alexander, jr.)
Laun, Louis G., Utica, N. Y. Gravy percolator. 1,687,099; Oct. 9.
Latour Corporation. (See Latour, Marius, assignor.)
Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Electric coil construction. 1,687,298; Oct. 9.
La Vigne, Jerome R., assignor to Waterbury Buckle Co., Waterbury, Conn. Suspender-end loop. 1,687,370; Oct. 9.
Lawson, Frederick O., Toronto, Ontario, Canada. Sanitary sandal. 1,686,975; Oct. 9.
Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inserting fastenings. 1,686,820; Oct. 9.
Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,686,821; Oct. 9.
Lazote Inc. (See Claude, Georges, assignor.)
Lebby, States L., Corning, assignor to Corning Glass Works, Corning, N. Y. Signal lamp. 1,686,822; Oct. 9.
Leeper, Jesse C., assignor of forty-five one hundredths to G. E. Brayton and ten one-hundredths to C. R. Townsan, Des Moines, Iowa. Radio reception instrument. 1,687,371; Oct. 9.
Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Air gun. 1,686,702; Oct. 9.
Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Spring air gun. 1,686,752; Oct. 9.
Legat, Robert C., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn. Shoe fastening. 1,687,372; Oct. 9.
Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,686,669; Oct. 9.
Lehman, Joseph H., Hasbrouck Heights, N. J. Ignition apparatus. 1,686,527; Oct. 9.
Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,687,373; Oct. 9.
Leo, Herbert T., Corona, Calif. Solid flavoring material. 1,686,670; Oct. 9.
Leo, Herbert T., Corona, Calif. Solid acid material. 1,686,703; Oct. 9.
Leppert, Henry E., New Britain, Conn., assignor to The Truball Electric Manufacturing Company, Plainville, Conn. Electric-switch box. 1,687,165; Oct. 9.
Levin, Nils D., assignor to The Jeffrey Manufacturing Co., Columbus, Ohio. Chain and attachment therefor. 1,686,566; Oct. 9.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Material-carrying flight. 1,686,567; Oct. 9.
Levis, Edmond. (See Mayer, J. T., Levis, and Schum.)
Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Mechanically-operated speed-controlling device. 1,686,916; Oct. 9.
Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Automatic speed-controlling device. 1,687,339; Oct. 9.
Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
Lewis, Addison, Minneapolis, Minn. Suspensory. 1,686,869; Oct. 9.
Lewis, Frank H. (See Llale, H. C., and Lewis.)
Lewis, Nathan E., Plainfield, and H. J. Kerr, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Furnace wall. 1,686,976; Oct. 9.
Lewis-Shepard Company. (See Warshaw, Nathaniel, assignor.)
Leyland, John, assignor to Federal Mogul Corporation, Detroit, Mich. Float-supported measuring pot. 1,686,823; Oct. 9.
Liberman Manufacturing Company. (See Loewy, Aaron E., assignor.)
Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Back-movement lock for paver buckets. 1,687,299; Oct. 9.
Limoges China Company, The. (See Sebring, Frank A., assignor.)
Lindemann, A. J., & Hoverson Company. (See Lindemann, W. C., and Benson, assignors.)
Lindemann, Walter C., and A. W. Benson, assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Folding portable stove frame. 1,686,620; Oct. 9.
Lincoln, Elmer W. (See Engle, E. W., and Lincoln.)
Linderblad, Alfons L. (See Viberg, E. R., and Linderblad.)
Lindig, Harry J., et al. (See Shay, James M., assignor.)
Lindsay Light Company. (See Little, Robert L., assignor.)
Line Material Company. (See Steinmayer, Alwin G., assignor.)
Lionel Corporation, The. (See Caruso, Louis, assignor.)
Lipe, Raleigh V., Cincinnati, Ohio. Vehicle brake. 1,686,870; Oct. 9.
Liquid Carbonic Corporation, The. (See Mohler, Valentine J., assignor.)
Lisle, Howard C., Lansing, Mich., and F. H. Lewis, assignors to Bean Spray Pump Co., San Jose, Calif. Elevator. 1,686,825; Oct. 9.
Little, Robert L., assignor to Lindsay Light Company, Chicago, Ill. Canopy for ceiling fixtures. 1,687,166; Oct. 9.
Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Beveling and sealing clamp. 1,687,340; Oct. 9.
Littman, Zeno, New York, N. Y. Pneumatic tire. 1,686,977; Oct. 9.
Lockett, Ralph G., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,686,753; Oct. 9.
Loewy, Aaron E., Philadelphia, Pa., assignor to Liberman Manufacturing Company. Controller actuation. 1,686,754; Oct. 9.
Loewe Siegmund, Berlin, Friedenau, Germany, assignor to Radio Corporation of America. Radio receiving circuit. 1,686,621; Oct. 9.
Loftin, Edward H., New York, N. Y., assignor to E. H. Loftin, trustee. Method of and apparatus for operating electrical amplifiers. 1,686,755; Oct. 9.
Loftin, Edward H., trustee. (See Loftin, Edward H., assignor.)
Loftus, Fred H., Pittsburgh, Pa. Checkerwork for open-hearth and blast furnaces. 1,686,826; Oct. 9.
Loizillon, Jean J. B., La Cauble, France. Application of cold to the manufacture of flour. 1,687,300; Oct. 9.
Lombardi, Vincent, Brooklyn, N. Y. Knitting machine. 1,687,132; Oct. 9.
Lonas, Frank E., New York, N. Y. Lubricating system for internal-combustion engines. 1,686,824; Oct. 9.

Longley, Frank E., Lynn, Mass. Valve-resurfacing machine. 1,687,374; Oct. 9.
Longstreth, Charles B., Denver, Colo. Refrigerator. 1,686,568; Oct. 9.
Lorber, Charles, Louisville, Ky. Combined bill fold, card-case, and key case. 1,686,756; Oct. 9.
Lorentzen, Hans K., New York, N. Y. Coin-controlled vending machine. 1,686,978; Oct. 9.
Loshbough, James E., Elkhart, Ind. Tripping mechanism for punch presses. 1,686,622; Oct. 9.
Loughridge, Howard R., Castle Shannon, Pa. Building block. 1,686,737; Oct. 9.
Loveman Brothers. (See Loveman, Emile M., assignor.)
Loveman, Emile M., Flushing, assignor to Loveman Brothers, New York, N. Y. Textile fabric and producing the same. 1,686,630; Oct. 9.
Lovejoy, Dimmitt, New York, N. Y., assignor, by mesne assignments, to American Bosch Magneto Corporation, Springfield, Mass. Volume control and switch for radio-circuits. 1,687,133; Oct. 9.
Lovejoy, Frank W., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture-film strip. 1,687,100; Oct. 9.
Lucarelle, Joseph M., assignor to Dictaphone Corporation, Bridgeport, Conn. Ejector. 1,687,375; Oct. 9.
Lukens, William L., and R. R. Carey, Bethlehem, Pa., assignors to Bethlehem Steel Company. Fuse for projectiles. 1,687,341; Oct. 9.
Lunceford, Earl E. (See Harrison, W., and Lunceford.)
Lynch, John M., Oakville, and W. S. Gilmour, assignors to Blake & Johnson Company, Waterbury, Conn. Machine for feeding beaded blanks. 1,687,134; Oct. 9.
Lyon, George A., Allenhurst, N. J., assignor, by mesne assignments, to American Chain Company, Inc. Duplex buffer construction. 1,687,376; Oct. 9.
Lyon, Harry, Brockton, assignor to J. A. Barbour, Brookline, and P. E. Barbour, Quincy, doing business as Barbour Welting Company, Brockton, Mass. Welt and making the same. 1,687,459; Oct. 9.
Lyon, Harry, assignor to Barbour Welting Company, Brockton, Mass. Beaded welting and method of making. 1,687,460; Oct. 9.
Lyon, Harry, Holbrook, assignor to P. E. Barbour, Quincy, Mass. Welting. 1,687,461; Oct. 9.
Lyon, Harry, Holbrook, assignor to P. E. Barbour, Quincy, Mass. Beaded welting. 1,687,462; Oct. 9.
Lyons, Robert L., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Button clamp for button-attaching machines. 1,686,528; Oct. 9.
Lysinger, William H. (See Fleetwood, C. A., and Lysinger.)
Maag, Gustav C., Duisburg, Germany. Automatic coupling device for transmission of power. 1,686,827; Oct. 9.
Macbeth-Evans Glass Company. (See Langenbaker, Sylvester A., assignor.)
MacGregor, Wallace F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,686,828; Oct. 9.
Mackenzie, Fred L. (See Goddu, G., and Mackenzie.)
Mackeown, Samuel S., Ithaca, assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave producer. 1,687,220; Oct. 9.
MacNeill, John B., Wilkinsburg, and A. H. Bakken and C. A. Tucker, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. Switch mechanism. 1,686,706; Oct. 9.
MacVeigh, John G., and P. B. Collins, Omaha, Nebr. Building tile. 1,687,342; Oct. 9.
Madden, James P., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal tank-joint construction. 1,687,343; Oct. 9.
Madvig, Gunnar, Oakland, Calif. Bracket for drapery pole or rod. Des. 76,546; Oct. 9.
Magic Coffee Company. (See Slocum, F. L., and Troutman, assignors.)
Magnetic Analysis Corporation. (See Berlowitz, Max E., assignor.)
Magnetic Analysis Corporation. (See Burrows, Charles W., assignor.)
Magnetic Analysis Corporation. (See Imes, Elmer S., assignor.)
Maier, Karl, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Sewing and edging machine. 1,687,377; Oct. 9.
Malleable Iron Fittings Company. (See Pickop, George B., assignor.)
Malling, Malte J., Grand Rapids, Mich. Bumper for vehicles. 1,686,829; Oct. 9.
Malm, Carl J. (See Clarke, H. T., and Malm.)
Mample, Adolph Z., Glen Rock, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Method of and apparatus for soldering cable-bonding devices. 1,687,378; Oct. 9.
Management Engineering and Development Company, The. (See Hedgcock, James A., assignor.)
Mankin, James B., North Chattanooga, Tenn. Rotary-valve internal-combustion engine. 1,686,758; Oct. 9.
Mann, Randolph M., Nyack, N. Y. Connecting plug. 1,687,167; Oct. 9.
Mansuy, William G., Detroit, Mich. Plastic material forming and smoothing device. 1,687,344; Oct. 9.
Marcus, Samuel, Brooklyn, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Artificial eyes for dolls, display figures, and the like. 1,687,478; Oct. 9.
Mark, Wilver F., Butler, Ind. Combined heater and muffler device. 1,687,168; Oct. 9.
Markon Manufacturing Co. (See Marcus, Samuel, assignor.)
Marles, Henry, assignor to Gemmer Manufacturing Company, Detroit, Mich. Worm-gear adjustment for motor-vehicle steering gears. 1,686,704; Oct. 9.
Marran, Vincent P., Holyoke, Mass. Snowplow. 1,687,169; Oct. 9.
Martin, Rhetherford B., Colonia, N. J., assignor to Minerals Separation North American Corporation, New York, N. Y. Froth-flotation concentration of ores. 1,686,529; Oct. 9.
Marzolf, John A., Seattle, Wash. Automobile jack. 1,687,027; Oct. 9.
Mason, Ulysses G., Birmingham, Ala. Garment support. 1,686,830; Oct. 9.
Matchette, Frank J., assignor to The Servidor Company, New York, N. Y. Service cabinet. 1,686,831; Oct. 9.
Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Handle grip. 1,687,170; Oct. 9.
Matthews, Ransdell, San Francisco, Calif. Bottle stopper. Des. 76,547; Oct. 9.
Mauck, Victor, Merion, Pa. Gas water heater. 1,687,101; Oct. 9.
May, Adam J., assignor, by mesne assignments, to Ritter Dental Mfg. Company, Inc., Rochester, N. Y. Headrest. 1,686,631; Oct. 9.
Mayer, George F., Chicago, Ill. Permutation padlock. 1,686,632; Oct. 9.
Mayer, Julian T., E. Levis, New York, and H. Schum, Bronx, assignors, by mesne assignments, to Rudolph Wurlitzer Mfg. Co., North Tonawanda, N. Y. Piano. 1,687,028; Oct. 9.
Maytag Company, The. (See Snyder, Howard F., assignor.)
McAdams, William L., Coquille, Oreg. Magnetic ore separator. 1,686,917; Oct. 9.
McCathron, Claude B., assignor to Josiah Anstice & Co. Inc., Rochester, N. Y. Vegetable-peeling machine. 1,687,171; Oct. 9.
McClatchie, John M., assignor to The Borden Company, New York, N. Y. Pump. 1,687,029; Oct. 9.
McCormick, Francis H., Glen Ellyn, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electrc heater. Des. 76,548; Oct. 9.
McFarlin, Catherine S., administratrix. (See Stafford, Martin A.)
McFarlin, John R., assignor to Electric Service Supplies Company, Philadelphia, Pa. Multigap lightning arrester. 1,687,254; Oct. 9.
McGinnis, John A. (See Edwards, A. L., and McGinnis.)
McGinnis, Philip, London, Ontario, Canada. Starting gate. 1,686,832; Oct. 9.
McKee, H. M. (See Cox, Mackneele, assignor.)
McKeon, John J. (See Bryson, T. A., and McKeon.)
McKesson, Elmer I., Toledo, Ohio. Gas-administering apparatus. 1,687,255; Oct. 9.
McLaughlin Coal Reduction Company. (See Fleetwood, C. A., and Lysinger.)
McManis, John V., Kirksville, Mo. Treatment table. 1,686,979; Oct. 9.
McMillan, James O., El Dorado, assignor to Standard Pump & Supply Company, Wichita, Kans. Compressor. 1,686,569; Oct. 9.
McPartland, Frank. (See Cox, P., and McPartland.)
McWilliams, Arthur C., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Metering panel board. 1,686,717; Oct. 9.
Mead Pulp & Paper Company, The. (See Heisel, Ralph E., assignor.)
Meek, George A., Leon, Iowa. Combination cornerib and grain bin. 1,686,871; Oct. 9.
Melahn, August M., Brooklyn, N. Y. Switch-operating means. 1,686,633; Oct. 9.
Melcher, Lee W., West De Pere, Wis. Car-axle bearing. 1,687,221; Oct. 9.
Menner, Frederic B. (See Freund, W. L., and Menner.)
Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)
Merritt, Clarence E. (See Grover, W. H., Merritt, and Pooley.)
Mershon, Stephen L., Llanerch, Pa. Device for automatically controlling pilot lights of heavy-oil burners for furnaces, boilers, and the like. 1,687,135; Oct. 9.
Mertsanoff, André M., assignor to American Radiator Company, New York, N. Y. Boiler. 1,687,172; Oct. 9.
Metal Textile Corporation. (See Kingman, Russell B., assignor.)
Metal & Thermit Corporation. (See Deppeler, John H., assignor.)
Metallogen Gesellschaft mit beschränkter Haftung. (See Meurer, Nicolaus, assignor.)
Metzger, Maurice, Montreal, Quebec, Canada. Photographic printing machine. 1,687,379; Oct. 9.
Meurer, Nicolaus, Berlin-Tempelhof, assignor to Metallogen Gesellschaft mit beschränkter Haftung, Berlin-Neukolln, Germany. Treating the internal and external surfaces of elongated bodies. 1,687,102; Oct. 9.
Meyer, Adolf, Kusnacht, near Zurich, and K. Frey, Ennetbaden, assignors to A. G. Brown, Boveri & Cie., Baden, Switzerland. Steam-turbine construction. 1,687,103; Oct. 9.

Meyer, Albert W., New York, N. Y., Coffee-making apparatus. 1,687,345; Oct. 9.
Meyers, Wallace E., New York, N. Y. Glove. 1,687,380; Oct. 9.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making clincher tires. 1,687,301; Oct. 9.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making multiple-bead tire casings. 1,687,302; Oct. 9.
Mifsud, Jose L. (See Schauman, K. O., Yancey, and Mifsud.)
Mileometer Company, The. (See Joseph, Arthur H., assignor.)
Miller, Boyd F., Patton, Calif. Dirigible spotlight. 1,687,173; Oct. 9.
Miller, Lewis H., Cleveland, Ohio. Lubricator. 1,686,872; Oct. 9.
Mills, Thomas J. (See Morris, E. T., and Mills.)
Millspaugh, William H., assignor to The Paper and Textile Machinery Company, Sandusky, Ohio. Apparatus for casting. 1,686,624; Oct. 9.
Miner, Claude G., Berkeley, Calif., assignor to Phosphorus Hydrogen Company, New York, N. Y. Making oxy-compounds of phosphorus. 1,686,873; Oct. 9.
Miner, Frederick M., jr., Madison, Wis. Gas heater. Re17,098; Oct. 9.
Minerals Separation North American Corporation. (See Martin, Rhetherford B., assignor.)
Minnesota Mining and Manufacturing Company. (See Filloon, Forest F., assignor.)
Mitchell Camera Corporation. (See Mitchell, George A., assignor.)
Mitchell, George A., Los Angeles, Calif., assignor to Mitchell Camera Corporation. Erecting finder. 1,687,030; Oct. 9.
Mizzy, Albert D., New York, N. Y. Attachment for artificial teeth upon bridge work. 1,686,625; Oct. 9.
Mohler, Valentine J., Wheaton, assignor, by mesne assignments, to The Liquid Carbonic Corporation, Chicago, Ill. Bottle-crowning machine. 1,687,303; Oct. 9.
Molnar, Emery, Flemington, N. J. Shade for automobile headlight. 1,687,256; Oct. 9.
Monarch Machine Tool Company, The. (See Dull, Fred C., assignor.)
Monarch Metal Products Company. (See Lane, Alfred M., assignor.)
Mondl, Adolph M., Oshkosh, Wis. Aviation cap. 1,687,346; Oct. 9.
Monitor Controller Company. (See Whittingham, George H., assignor.)
Monnett Company. (See Monnett, Richard J., assignor.)
Monnett, Richard J., St. Louis, Mo., assignor to Monnett Company, El Dorado, Ark. Safety appliance for inflammable material containers. 1,686,918; Oct. 9.
Montgomery Ward & Co. (See Tedell, John, assignor.)
Moore, Ford H., Kansas City, Mo. Fuel-oil burner. 1,686,533; Oct. 9.
Moore, John J., South Charleston, Ohio. Bandage roller, cutter, and cabinet. 1,687,031; Oct. 9.
Mootz, Herman H. (See Shidler, A. L., and Mootz.)
Moran, Francis D. (See Frayne, J. G., and Moran.)
Morimura Bros. Inc. (See Tomita, Urasaburo, assignor.)
Morin, Louis H., assignor to Phillips-Jones Corporation, New York, N. Y. Folding machine. 1,687,222; Oct. 9.
Morris, Amos R., Ann Arbor, Mich. Folding map or chart. 1,687,304; Oct. 9.
Morris, Edward T., and T. J. Mills, London, England, assignors to R. Hoe & Co. Inc., New York, N. Y. Side-registering mechanism for printing-machine rolls. 1,686,530; Oct. 9.
Morris, Granvill P. (See Dudfield, A., and Morris.)
Morrison, Robert F., and E. B. Elder, Oak Park, assignors to E. J. Brach, Chicago, Ill. Plastic-candy-forming machine. 1,686,759; Oct. 9.
Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Thermostatic-indicator-securing means. 1,687,104; Oct. 9.
Morse Chain Company. (See Thompson, Fred C., assignor.)
Morton, Arthur, Seattle, Wash. Wire cable. 1,687,257; Oct. 9.
Moru, Walter W., Kenosha, Wis. Lamp. 1,687,347; Oct. 9.
Moscrip, John, assignor to Flordia Citrus Exchange, Tampa, Fla. Juice extractor. 1,687,463; Oct. 9.
Mosher, Glenn E., Rockford, Iowa. Removable window for closed cars. 1,686,705; Oct. 9.
Motor Products Corporation. (See Pritchard, William S., assignor.)
Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic regulator. 1,686,634; Oct. 9.
Mountford, Howard S. (See Mountford, Stanley F. and H. S.)
Mountford, Stanley F. and H. S., assignors of one-half to J. F. Hood, Los Angeles, Calif. Hinge. 1,687,174; Oct. 9.
Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Stiffening member for automobile radiators. 1,686,626; Oct. 9.
Muller, Edward, North Bergen, N. J. By-pass valve. 1,687,032; Oct. 9.
Müller, Friedrich W., Dresden, Germany. Typewriter. 1,686,627; Oct. 9.
Müller, Fritz. (See Rothlin, E., and Müller.)
Muller, Otto, Richmond Hill, assignor to Kueher Muller Company, Inc., New York, N. Y. Banding machine. 1,686,628; Oct. 9.
Mulvihill, Daniel C., Hannibal, Mo. Device for removing sand from metal castings. 1,686,629; Oct. 9.
Munson, Henry H. (See Drexler, J. J., and Munson.)
Murnane, Daniel J., jr. (See Murnane, Daniel J. and D. J., jr.)
Murnane, Daniel J., San Francisco, Calif. Nonslip floor. 1,686,919; Oct. 9.
Murnane, Daniel J., San Mateo, assignor to Non-Pressure Glazing Company, San Francisco, Calif. Sash for holding glass. 1,686,922; Oct. 9.
Murnane, Daniel J., San Mateo, assignor to Non-Pressure Glazing Company, San Francisco, Calif. Sash for holding glass. 1,686,923; Oct. 9.
Murnane, Daniel J., San Mateo, and D. J. Murnane, jr., assignors to Non-Pressure Glazing Company, San Francisco, Calif. Sash for holding glass. 1,686,920; Oct. 9.
Murnane, Daniel J., San Mateo, and D. J. Murnane, jr., assignors to Non-Pressure Glazing Company, San Francisco, Calif. Sash for holding glass. 1,686,921; Oct. 9.
Murray Body Corporation. (See Breneman, Paul E., assignor.)
Murray, Francis L. (See Wood, Alfred P., assignor.)
Myers, Harold L., Morristown, N. J. Display stand for merchandise. 1,687,136; Oct. 9.
Myers, Harold L., Morristown, N. J. Display device for merchandise. 1,687,137; Oct. 9.
Myers, Harold L., Morristown, N. J. Display stand for merchandise. 1,687,138; Oct. 9.
Myers, Walter S., Darby, Pa. Clutch control. 1,686,760; Oct. 9.
Mylius, Walter G., Wilkinsburg, and B. G. La Bar, Turtle Creek, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. 1,686,635; Oct. 9.
Naab, George F., Lakewood, Ohio, assignor to The North American Manufacturing Company. Recuperator-type oil burner. 1,687,105; Oct. 9.
Naamlooze Vennootschap Nederlandsche Kunstzijdefabriek. (See Romp, Hendrik A., assignor.)
National Blank Book Co. (See Schade, John, assignor.)
National Cash Register Company, The. (See Oberhauser, Emil E., assignor.)
National Cash Register Company, The. (See Tatousek, Charles, assignor.)
National Electric Products Corporation. (See Frederickson, Otto A., assignor.)
National Fabric and Finishing Company. (See Ericson, Emile, assignor.)
National Fabric and Finishing Company. (See Siracusano, Louis J., assignor.)
National Supply Company, The. (See Archer, Merton T., assignor.)
Nazzareno, Eusebi, Telluride, Colo. Electric safety switch. 1,686,707; Oct. 9.
Neff, Paul W., Cincinnati, Ohio. Transmission-operating device. 1,687,139; Oct. 9.
Nell, Gustave M., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Valve for rock drills. 1,687,381; Oct. 9.
Nelson, Andrew S., Maple Plain, Minn. Plow. 1,686,874; Oct. 9.
Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Sash construction. 1,687,305; Oct. 9.
Nelson, Gerald D., New York, N. Y., assignor to Radio Corporation of America. Radio football score board. 1,687,033; Oct. 9.
Nelson, Gustave C., assignor to The Borg & Beck Company, Moline, Ill. Vacuum feed system. 1,687,175; Oct. 9.
Nelson, Ira I., Boston, and C. Smith, Worcester, Mass.; said Smith assignor to said Nelson. Spring-pressure relief valve. 1,686,875; Oct. 9.
Nettleton, A. E., Company. (See Cook, Henry W., assignor.)
Newcomer, Harry S. (See Staats, H. P., and Newcomer.)
Newell, Minton H., assignor to The Alloys Company, San Francisco, Calif. Producing a metal-dust mixture. 1,687,034; Oct. 9.
New England Wood Heel Co. (See Shaw, Wesley J., assignor.)
Newhouse, Homer E., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic magnetic release for ironing machines. 1,686,708; Oct. 9.
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Coupling. 1,687,035; Oct. 9.
Nickerson, Orva O., assignor to Fort Wayne Corrugated Paper Company, Fort Wayne, Ind. Shipping carton. 1,686,834; Oct. 9.
Non-Pressure Glazing Company. (See Murnane, Daniel J., assignor.)
Non-Pressure Glazing Company. (See Murnane, Daniel J. and D. J., jr., assignors.)
Nordell, Eskel, Fort Wayne, Ind., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Base exchange silicate and making same. 1,687,036; Oct. 9.
Nordstrom, Sven J., Oakland, assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. Re17,101; Oct. 9.

North American Manufacturing Company, The. (See Naab, George F., assignor.)
North, Joseph M., Arnold, Kans. Valve grinder. 1,687,382; Oct. 9.
Norton Company. (See Silven, Herbert A., assignor.)
Norton Company. (See Webster, Duane E., assignor.)
Norton, Frederick H., East Liverpool, Ohio. Masonry arch for high-temperature use. 1,686,761; Oct. 9.
Nuckols, Claude C., Menands, N. Y. Drawing board and attached straight edge. 1,686,980; Oct. 9.
Oakley, George E., assignor, by mesne assignments, to Consolidated Car-Heating Company Inc., Albany, N. Y. Car-door control. 1,687,223; Oct. 9.
Oberhauser, Emil E., assignor to The National Cash Register Company, Dayton, Ohio. Printing mechanism for cash registers. 1,686,924; Oct. 9.
O'Hare, James L. (See Higgins, H., Fish, and O'Hare.)
O'Harra, Berry M., Westfield, and E. A. Slagle, Trenton, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Manufacturing magnesite brick. 1,686,876; Oct. 9.
Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Equipotential cathode vacuum tube. 1,686,570; Oct. 9.
Olesen, Harold L. (See Engle, E. W., and Olesen.)
Oliver Chilled Plow Works. (See Altgelt, Rudolph J., assignor.)
Olsen Engine Syndicate Limited, The. (See Olsen, Simon D., assignor.)
Olsen, Simon D., assignor to The Olsen Engine Syndicate Limited, London, England. Injecting liquid fuel into internal-combustion engines. (1,687,176; Oct. 9.
Olson, Oscar O., Chicago, Ill. Scalp comb. 1,686,981; Oct. 9.
O'Neil, Minnie B., Pittsburg, Pa. Clothes-hanger support. 1,687,383; Oct. 9.
Oppenheim, Jesse, New York, N. Y. Hair piece. 1,686,636; Oct. 9.
Oppenheim, René, assignor to Société Anonyme le Carbone, Levallois-Perret, France. Battery electric accumulator, and electrolyzing apparatus. 1,687,307; Oct. 9.
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Weidert, Franz, assignor.)
Orlando, Joseph F., assignor of one-half to R. Giorioso, Washington, D. C. Indicating fuse plug. 1,687,037; Oct. 9.
Osann, Frederick, Company. (See Lyons, Robert L., assignor.)
Osborne, John W., Alsey, and C. C. Freitag, Winchester, Ill. Wire stretcher. 1,686,762; Oct. 9.
Osnos, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. m. H., Berlin, Germany. Telephony or keying arrangement. 1,686,982; Oct. 9.
Otis Company. (See Blanchard, Alfred, assignor.)
Otis Elevator Company. (See Daly, W. A., and Dunn, assignor.)
Otis Elevator Company. (See Davis, Lee I., assignor.)
O'Toole, Edward, Gary, W. Va. Mining machine. 1,687,306; Oct. 9.
Oxhandler, Leopold, assignor, by mesne assignments, to Meyer Dry, Chicago, Ill. Flat for cellular filters. 1,687,224; Oct. 9.
Paige, Arthur E., Philadelphia, Pa. Vehicle lock and electric circuits. 1,686,763; Oct. 9.
Paper and Textile Machinery Company, The. (See Millspaugh, William H., assignor.)
Paradise, Thomas E., Hannibal, Mo. Boiler blow-off muffler. 1,687,308; Oct. 9.
Paraffine Companies, The. (See Rosener, Leand S., assignor.)
Parker, Arthur H. (See Davison, Frank G., assignor.)
Parker, Harry L. (See Broadbent, Charles, assignor.)
Parker, Joseph N., Bedford City, Va. Tractor plow. 1,686,983; Oct. 9.
Parkes, Deric W. (See Robinson, H. W., and Parkes.)
Parkhurst, Charles E. (See Bridge, Walter G., assignor.)
Parks-Cramer Company. (See Thompson, Albert W., assignor.)
Parsons, Ernest P., deceased; W. M. Baldwin, administrator, assignor to The Parsons & Parsons Company, Cleveland, Ohio. Neckwear. 1,687,177; Oct. 9.
Parsons & Parsons Company, The. (See Parsons, Ernest P., assignor.)
Pathe Exchange, Inc. (See Chanier, Gaston L., assignor.)
Paxson, Oliver E., assignor to Street Luminaire Company, Chicago, Ill. Lantern. Des. 76,549; Oct. 9.
Peach, Wasyl. (See Corser, F., and Peach.)
Pearson, Gardner W. (See Rogers, H. J., and Boyle, assignors.)
Peerless Motor Car Corporation. (See Slack, Frederic W., assignor.)
Peerless Roll Leaf Co. (See Grupe, William F., assignor.)
Peik, Louis D., Mishawaka, Ind., assignor to American Foundry Equipment Company, New York, N. Y. Abrasive-supply tank. 1,686,877; Oct. 9.
Penberthy Injector Company. (See Warrick, Charles F., assignor.)
Perfect Window Regulator Corporation. (See Goldsmith, B. J., and Koeb, assignors.)
Perkins, George G., Lynn, Mass. Shoe machinery. 1,687,384; Oct. 9.
Perkins, Lawrence M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current motor. 1,686,637; Oct. 9.
Permutit Company, The. (See Nordell, Eskel, assignor.)
Peters, William G., Peoria, Ill., assignor to Westinghouse Electric & Manufacturing Company. Wringer mounting. 1,686,709; Oct. 9.
Peterson, Eugene, assignor to Western Electric Company, Incorporated, New York, N. Y. Frequency-translating circuit. 1,687,225; Oct. 9.
Peterson, John R., Sugar City, Idaho, assignor to Utah-Idaho Sugar Company, Salt Lake City, Utah. Sugar-spraying apparatus. 1,687,178; Oct. 9.
Peterson, Ole, Cleveland, Ohio. Bottle or jar cover. 1,687,179; Oct. 9.
Peterson, William, assignor to Intertype Corporation, Brooklyn, N. Y. Safety stop means for typographical machines. 1,687,385; Oct. 9.
Pettigrew, Charles W., Parkersburg, W. Va. Supplemental chair for automobiles and the like. 1,687,038; Oct. 9.
Phillips-Jones Corporation. (See Morin, Louis H., assignor.)
Phosphorus Hydrogen Company. (See Miner, Claude G., assignor.)
Pickett, Herbert E., Baltimore, Md. Baseball game board. 1,687,180; Oct. 9.
Pickop, George B., New Haven, assignor to Malleable Iron Fittings Company, Branford, Conn. Vibrator or agitator. 1,686,984; Oct. 9.
Pictorial Machinery Limited. (See Harris, Robert, assignor.)
Pierce, Raymond T., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Slip indicator. 1,686,638; Oct. 9.
Pierce, Raymond T., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,686,639; Oct. 9.
Pierce, Winslow S., jr., Bayville, N. Y. Tire tool. 1,686,640; Oct. 9.
Pierson, Robert W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Flush-tank valve. 1,686,985; Oct. 9.
Pike, Robert D., Piedmont, and R. Cummings, Berkeley, Calif.; said Cummings assignor to said Pike. Producing potassium salts and by-products. 1,686,835; Oct. 9.
Pittsburg Plate Glass Company. (See Fox, John H., assignor.)
Pittsburgh Plate Glass Company. (See Harrington, Alfred L., assignor.)
Platt, Haviland H., Wallingford, Pa. Internal-combustion engine. 1,687,348; Oct. 9.
Plaut, Herman, assignor to L. Plaut & Company, Incorporated, New York, N. Y. Lighting fixture. 1,686,571; Oct. 9.
Plaut, L., & Company. (See Plaut, Herman, assignor.)
Pleyer, Anton, Spechthausen, near Eberswalde, assignor to Gebr. Ebart, Berlin, Germany. Watermarked paper. 1,687,140; Oct. 9.
Polack, Charles F., York, Pa. Window fastener. 1,686,572; Oct. 9.
Polgar, William, New York, N. Y. Combined collar and necktie holder. 1,686,986; Oct. 9.
Pollak, Fritz. (See Ripper, Kurt, assignor.)
Pomeroy, Roy J., assignor of one-half to Famous Players-Lasky Corporation, Los Angeles, Calif. Making composite pictures. 1,686,987; Oct. 9.
Pooley, William S. (See Grover, W. H., Merritt, and Pooley.)
Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nailing machine. 1,686,764; Oct. 9.
Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-nailing machine. 1,686,765; Oct. 9.
Porcelain Tile Company. (See Haines, George D., assignor.)
Porcelain Tile Company. (See Thomas, Wingate, assignor.)
Porter, Alexander T., Elizabeth, N. J. Apparatus for producing oil vapor. 1,687,226; Oct. 9.
Pott, Rainer H., Dresden, assignor to Chemische Fabrik Pott & Co., Dresden-N., Germany. Treating and wetting out fibrous material. 1,686,836; Oct. 9.
Pott, Rainer H., assignor to Chemische Fabrik Pott & Co., Dresden, Germany. Carbonizing woolen fibers. 1,686,837; Oct. 9.
Powell, A. L. Power Company, Incorporated, The. (See Swanson, Verner J., assignor.)
Powell, John D., Cincinnati, Ohio. Concrete mixtures. 1,687,227; Oct. 9.
Prease, Thomas B., Superior, Ariz. Wind motor. 1,687,181; Oct. 9.
Prentice, G. E., Manufacturing Company. (See Legat, Robert C., assignor.)
Pressed & Welded Steel Products Company. (See Haskin, Walter E., assignor.)
Price, Alfred D., East Cleveland, Ohio. Lamp. 1,687,141; Oct. 9.
Pritchard, William S., Detroit, Mich., assignor, by mesne assignments, to Motor Products Corporation. Air die. 1,687,309; Oct. 9.
Prosperity Company, The. (See Kilby, C. B., Reinitz, and Clisson, assignors.)
Puening, Franz, Pittsburgh, Pa. Heating method and apparatus. 1,687,142; Oct. 9.
Pyle, Elmer B., New York, N. Y. Letter-printing apparatus. 1,686,531; Oct. 9.

Quart, Thure A., Hartford, Conn. Oil-burning apparatus. 1,687,349; Oct. 9.
Rausch, Earl C., Waupun, Wis. Interference and static eliminator. 1,686,878; Oct. 9.
Radio Corporation of America. (See Eckersley, Thomas L., assignor.)
Radio Corporation of America. (See Kroger, Fred H., assignor.)
Radio Corporation of America. (See Loewe, Siegmund, assignor.)
Radio Corporation of America. (See Nelson, Gerald D., assignor.)
Rae, Frank B., Berkeley, Calif. Illuminated display sign. 1,687,106; Oct. 9.
Rampfel, Heinrich, Lakewood, N. J., assignor to Nathan Straus & Sons, Inc., New York, N. Y. Plate or similar article. Des. 76,550; Oct. 9.
Randall, Parke, Lille, France, assignor to International Harvester Company. Side-delivery rake and swath turner. 1,687,310; Oct. 9.
Ray, Arthur J., Cuba, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,686,838; Oct. 9.
Ray, Frank A. (See Weber, Reinhold, assignor.)
Ray, Helen L., Los Angeles, Calif. Ornamentation for wash dresses. 1,686,988; Oct. 9.
Reardon, Frank A., Canton, Ohio. Holder for ice-cream boxes and the like. Des. 76,551; Oct. 9.
Redmond, Albert G., assignor to J. R. Francis, Flint, Mich. Supplying fuel to internal-combustion engines. 1,686,573; Oct. 9.
Redmond, Albert G., Indianapolis, Ind., assignor to J. R. Francis, Flint, Mich. Fuel-feeding system. 1,686,574; Oct. 9.
Reece, James R., Salisbury, N. C., assignor to Draper Corporation, Hopedale, Mass. Shuttle-feeler thread-parter-operating mechanism. 1,687,464; Oct. 9.
Reed Roller Bit Company. (See Bull, Clinton H. M., assignor.)
Reeve, John H., Portland, Oreg. Liquid-fuel burner. 1,687,386; Oct. 9.
Regan Safety Devices Company, The. (See Rosenzweig, Fred M., assignor.)
Reid, Hugh S., and W. C. Hovey, Shawinigan Falls, assignors to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Manufacturing acetaldehyde. 1,687,228; Oct. 9.
Reid, John, assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Gear power. 1,686,925; Oct. 9.
Reid, Joseph, Gas Engine Company. (See Reid, John, assignor.)
Reilly, William. (See Bolgiano, J., and Reilly.)
Reinitz, Maurice. (See Kilby, C. B., Reinitz, and Clisson.)
Remington Rand Inc. (See Carlson, Edward, assignor.)
Remington Rand Inc. (See Wigginton, George P., assignor.)
Remington Rand Inc. (See Wolters, Carl F., assignor.)
Reo Motor Car Company. (See Thomas, Horace T., assignor.)
Reserve Holding Company. (See Saunders, Norman H., assignor.)
Reynolds, John, Montclair, N. J., assignor to The Southington Hardware Co., Southington, Conn. Putty knife or similar article. Des. 76,552; Oct. 9.
Reynolds, Thelma M., St. Paul, Minn. Permanent waver. 1,686,575; Oct. 9.
Rhoads, Harry E., assignor to The Willys-Overland Company, Toledo, Ohio. Engine governor. 1,686,839; Oct. 9.
Rich, Earl W., Indianapolis, Ind. Water seal for waste pipe. 1,686,926; Oct. 9.
Richard, Clarence A., assignor of one-third to O. K. Richard and two-thirds to C. C. Richard, Detroit, Mich. Work-holding head for lathes. 1,687,143; Oct. 9.
Richard, Clement C., et al. (See Richard, Clarence A., assignor.)
Richard, Otis K., et al. (See Richard, Clarence A., assignor.)
Richard, William E., assignor to Sunbeam Electric Manufacturing Company, Evansville, Ind. Turbine rotor and forming the same. 1,686,840; Oct. 9.
Richards, David R., St. Louis, Mo. Window. 1,686,927; Oct. 9.
Richter, Rudolf, Durlach, and W. Sarfert, Dresden, assignors to the firm of Sachsenwerk Licht- und Kraft-Aktiengesellschaft, Niedersedlitz, near Dresden, Germany. Compensated alternate-current machine. 1,687,311; Oct. 9.
Ridley, Grahame B., San Francisco, Calif. Clutch. 1,686,989; Oct. 9.
Riedel Fertilizing Process Co. (See Riedel, Friedrich, assignor.)
Riedel, Friedrich, Essen, Germany, assignor to Riedel Fertilizing Process Co., Inc., Elizabeth, N. J. Apparatus for utilizing impure gases or exhaust gases containing carbon dioxide. 1,687,229; Oct. 9.
Rieger, Nelson M., Dayton, Ohio. Collapsible boat. 1,687,387; Oct. 9.
Rigo, Jorge, Habana, Cuba. Lock. 1,687,388; Oct. 9.
Riley Stoker Corporation. (See Butt, Howard, assignor.)
Ringel, Edwin, Alma, Kans. Land roller. 1,687,389; Oct. 9.
Ringers, Dirk, Long Beach, Calif. Headlight attachment. 1,687,144; Oct. 9.
Ripper, Kurt, assignor to F. Pollak, Vienna, Austria. Manufacturing urea-formaldehyde condensation products. 1,687,312; Oct. 9.
Riter-Conley Manufacturing Company. (See Hill, Harold O., assignor.)
Ritter Dental Mfg. Company. (See May, Adam J., assignor.)
Ritter, Eugene, Monroe, La. Combination gas and oil burner. 1,687,390; Oct. 9.
Robb, John F., Cleveland Heights, Ohio. Railroad-ballast-removing machine. 1,687,313; Oct. 9.
Roberts, Montague H., Englewood, N. J., and M. T. Forker, assignors to Franklin Railway Supply Company, New York, N. Y. Locomotive booster. 1,686,710; Oct. 9.
Robinson, Herbert W., Birmingham, and D. W. Parkes, West Bromwich, England. Resolving emulsions of tar or oil. 1,687,314; Oct. 9.
Roche, William J., Cochranton, Pa. Automatic toy. 1,687,315; Oct. 9.
Roebling's, John A., Sons Company. (See Green, Richard D., assignor.)
Rogers, Henry J., and F. H. Boyle, assignors of one-third to G. W. Pearson, Lowell, Mass. Tape-condenser clearer roll. 1,687,145; Oct. 9.
Rogers, John H., Portland, Oreg. Bulb sterilizer. 1,686,928; Oct. 9.
Rogers, Thomas C. (See Bell, T. W., and Rogers.)
Rollason, Charles H., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Pouring spout for containers. 1,687,316; Oct. 9.
Rollings, Ernest J., assignor to Consolidated Machine Tool Corporation of America, Newton Machine Tool Works, Philadelphia, Pa. Continuous-milling machine. 1,687,350; Oct. 9.
Romine, Robert T. (See Systrom, Ernest W., assignor.)
Romp, Hendrik A., assignor to Naamloose Vennootschap Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Motor for driving hydro-extractors. 1,687,039; Oct. 9.
Ronning, Adolph. (See Ronning, Andrean G. and A.)
Ronning, Adolph, et al., executors. (See Ronning, Andrean G. and A.)
Ronning, Andrean G., deceased, and A. Ronning, Minneapolis, Minn.; J. A. and A. Ronning, executors. Power transmission. 1,686,532; Oct. 9.
Ronning, Andrean G., deceased, and A. Ronning, Minneapolis, Minn.; J. A. and A. Ronning, executors. Power transmission. 1,686,532; Oct. 9.
Ronning, Jacob A., et al., executors. (See Ronning, Andrean G. and A.)
Root, Harriet R. (See Kenyon, Frederick D., assignor.)
Rosener, Leland S., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Pipe-wrapping machine. 1,686,929; Oct. 9.
Rosenzweig, Fred M., Niagara Falls, assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Electric coupling. 1,686,534; Oct. 9.
Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Making steering-gear-actuating members having varying spiral grooves. 1,687,258; Oct. 9.
Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Machine for making actuating members for steering gears. 1,687,259; Oct. 9.
Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Machine for making helically-grooved actuating members for steering gears. 1,687,260; Oct. 9.
Ross Gear & Tool Company. (See Ross, David E., assignor.)
Ross, Otley B., Novinger, Mo. Stock castrater. 1,686,990; Oct. 9.
Ross, Samuel E., and P. H. Bowlsby, Walkerville, Ontario, Canada. Dispensing device. 1,687,146; Oct. 9.
Rotary Valve Company. (See Dugger, Oscar L. and C. M., assignors.)
Rothlin, Ernst, and F. Müller, assignors to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Emetine derivatives for therapeutical purposes. 1,686,930; Oct. 9.
Ruegg, Henri, Zurich, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Safety device for machine control. 1,687,107; Oct. 9.
Russell, Gordon W., Brookline, Mass., assignor, by mesne assignments, to Johannes Kjekstad, Brooklyn, N. Y. Pressure-resisting storage tank. 1,686,931; Oct. 9.
Rutter, Argyle R., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Watt-hour meter. 1,686,641; Oct. 9.
Rutter, Argyle R., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,686,712; Oct. 9.
Sachsenwerk Licht- und Kraft-Aktiengesellschaft. (See Richter, R., and Sarfert, assignors.)
Samminiatelli, Oreste, East Toledo, Ohio. Display apparatus. 1,687,391; Oct. 9.
Sarfert, Willy. (See Richter, R., and Sarfert.)
Sargent & Company. (See Drexler, J. J., and Munson, assignors.)
Saunders, Norman H., Homewood, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Automatic telephone system. 1,686,879; Oct. 9.
Sauser, S. A. (See Wydler, Hermann, assignor.)
Sauvage, Herbert J., assignor to trustees of the Electro Thermostatic Control Company, Chicago, Ill., a Trust Estate. Thermostatic control system. 1,686,766; Oct. 9.

Sawyer, Emerson D., Chicago, Ill. Barrier device for stopping vehicles. 1,687,147; Oct. 9.
Saxon, James A., Sapulpa, Okla. Rotary internal-combustion engine. 1,686,767; Oct. 9.
Schade, John, assignor to National Blank Book Co., Holyoke, Mass. Shift bar for visible indexes. 1,687,108; Oct. 9.
Schaffert, Evelyn O., New York, N. Y. Weather shield for windows. 1,687,392; Oct. 9.
Schauman, Karl O., New York, N. Y., assignor to W. H. Avery, San Francisco, Calif. Cable bumper. 1,686,535; Oct. 9.
Schauman, Karl O., Asbury Park, N. J., assignor to W. H. Avery, San Francisco, Calif. Bumper control. 1,686,536; Oct. 9.
Schauman, Karl O., S. R. Yancey, and J. L. Mifsud, assignors to Sure-Guard Corporation, New York, N. Y. Car bumper. 1,686,991; Oct. 9.
Schettler, Gustav A., Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Me. Machine for treating hides, skins, leather, and other like pieces of material. 1,686,768; Oct. 9.
Schettler, Gustav A., Leeds, England, and O. Böttger, Frankfort-on-the-Main, Germany, assignors to The Turner Tanning Machinery Company, Portland, Me. Machine for operating upon hides, skins, leather, and other similar pieces of work. 1,686,769; Oct. 9.
Schiller, Morris, Venice, Calif. Flush-valve mechanism. 1,686,932; Oct. 9.
Schleicher, Inc. (See Schleicher, P. E., and Calcott, assignors.)
Schleicher, Paul E., and W. C. Calcott, assignors to Schleicher, Inc., Gary, Ind. Radiator cabinet or similar article. Des. 76,553; Oct. 9.
Schleicher, Paul E., and W. C. Calcott, assignors to Schleicher, Inc., Gary, Ind. Radiator cabinet or similar article. Des. 76,554; Oct. 9.
Schlepp, Morris, New York, N. Y. Globe-holding electric fixture. Des. 76,555; Oct. 9.
Schlepp, Morris, New York, N. Y. Globe-holding ceiling fixture. Des. 76,556; Oct. 9.
Schmidt, Edwin X. (See Hutton, U. O., and Schmidt.)
Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power plant. 1,687,109; Oct. 9.
Schmitt, George P. (See Cornwall, L. H., and Schmitt.)
Schmitz, Fred A., Cleveland, Ohio. Weighing scale. 1,686,770; Oct. 9.
Schneider, Daniel, Lodi, Calif. Automatic railroad-crossing gate and signal. 1,686,771; Oct. 9.
Schneider, Homer L., Cleveland, Ohio. Gas-generating appliance. 1,687,148; Oct. 9.
Schneider, Laurence A., assignor to Canton Forge & Axle Company, Canton, Ohio. Manufacturing sheet-metal rail anchors. 1,686,537; Oct. 9.
Schoolfield, Frederick E., Covington, Ky. Gas safety valve. 1,687,351; Oct. 9.
Schrader, Harold D., Denver, Colo. Gas burner. 1,686,711; Oct. 9.
Schrader's, A., Son, Incorporated. (See Henemier, Robert H., assignor.)
Schrader's, A., Son, Incorporated. (See Schweinert, Maximilian C., assignor.)
Schrope, William D., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition device. 1,687,040; Oct. 9.
Schuette, Henry H., Napoleon, Ohio. Fence protector. 1,686,576; Oct. 9.
Schultz, Emil G., Milwaukee, Wis. Burglar alarm for automobiles. 1,687,110; Oct. 9.
Schum, Herman. (See Mayer, J. T., Levis, and Schum.)
Schuster, Otto P., North Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Contact finger. 1,686,643; Oct. 9.
Schweinert, Maximilian C., New York, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Combined valve cap and dust cap. 1,686,642; Oct. 9.
Scott, Harry M., Chickasha, Okla., assignor to O. M. Burton, Chicago, Ill. Upholstery machine. 1,687,393; Oct. 9.
Scott, Robert, Melrose, Mass., assignor to International Combustion Engineering Corporation, New York, N. Y. Blower nozzle for transport lines. 1,686,713; Oct. 9.
Scovill Manufacturing Company. (See Boden, G., King, and Chapman, assignors.)
Sebring, Frank A., assignor to The Limoges China Company, Sebring, Ohio. Plate or similar article. Des. 76,557; Oct. 9.
Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor starter. 1,686,772; Oct. 9.
Seel, Paul C., assignor to Eastman Kodak Company, Rochesttr, N. Y. Nonstatic photograph film and film base therefor. 1,687,041; Oct. 9.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film and film base therefor. 1,687,042; Oct. 9.
Seifert, Kurt, Los Angeles, Calif. Multiplication device. 1,687,182; Oct. 9.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Selectasine System. (See Beck, Roy C., assignor.)
Semel, Louis B., New York, N. Y. Seam-pressing machine. 1,686,933; Oct. 9.
Serva, Adam A., assignor to The United Electric Company, Canton, Ohio. Brush and handle for vacuum cleaners. 1,686,934; Oct. 9.
Servidor Company, The. (See Matchette, Frank J., assignor.)
Sharples, David T., assignor to The Sharples Separator Company, West Chester, Pa. Centrifugal separator. 1,687,394; Oct. 9.
Sharples Separator Company, The. (See Sharples, David T., assignor.)
Shauer, Louis S. and R., Los Angeles, Calif. Refrigerator revolving receptacle. 1,687,149; Oct. 9.
Shauer, Rose. (See Shauer, Louis S. and R.)
Shaw, Wesley J., assignor to New England Wood Heel Co., Haverhill, Mass. Wood-heel machine. 1,686,773; Oct. 9.
Shay, James M., assignor of one-third to H. J. Lindig and one-third to H. P. Yoder, Cleveland, Ohio, and one-third to Shay Motion Picture Screen Co., Springfield, Ill. Picture screen. 1,686,880; Oct. 9.
Shay Motion Picture Screen Co., et al. (See Shay, James M., assignor.)
Shew, Walter E., assignor to Delco-Light Company, Dayton, Ohio. Refrigerating apparatus. 1,687,395; Oct. 9.
Shidler, Albert L., and H. H. Mootz, Sioux City, Iowa. Automobile trunk and luggage carrier. 1,687,396; Oct. 9.
Shipley, Thomas, assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Condenser. 1,686,935; Oct. 9.
Shively, Charles E., Portsmouth, Ohio. Shoe rack. 1,687,397; Oct. 9.
Siegel, Abraham A., assignor to D. Siegel, New York, N. Y. Coat. 1,686,577; Oct. 9.
Siegel, David. (See Siegel, Abraham A., assignor.)
Siemens & Halske. (See Hübner, Alfred, assignor.)
Siemens & Halske Aktiengesellschaft. (See Weeber, Otto, assignor.)
Siemens & Halske Aktiengesellschaft Wernerwerk. (See Böhme, K., and Giese, assignors.)
Silven, Herbert A., assignor to Norton Company, Worcester, Mass. Signaling device for cross-feed mechanisms. 1,687,398; Oct. 9.
Simmons, Richard P., New York, N. Y. Well-pumping apparatus. 1,687,399; Oct. 9.
Simons, Venning D. (See Woodhead, Robert, assignor.)
Simpson, William C., Muskogee, Okla. Fountain comb. 1,686,936; Oct. 9.
Siracusano, Louis J., Astoria, N. Y., assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 76,558; Oct. 9.
Six, Walter J., Indianapolis, Ind., assignor to B. D. Emanuel, trustee. Making piston rings. 1,686,937; Oct. 9.
Skene, Andrew A., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,687,111; Oct. 9.
Skinner Automotive Device Co. (See Woodward, Arthur A., assignor.)
Slack, Frederic W., assignor to Peerless Motor Car Corporation, Cleveland, Ohio. Motor support or suspension. 1,686,578; Oct. 9.
Slagle, Edgar A. (See O'Harra, B. M., and Slagle.)
Sloan, Charley H., Manning, Kans. Railway rail. 1,687,400; Oct. 9.
Slocum, Frank L., and W. E. Troutman, assignors to Magic Coffee Company, Pittsburgh, Pa. Making liquid coffee extract. 1,687,112; Oct. 9.
Smith, Bert C., and T. H. Chandler, Long Beach, Calif. Traffic signal. 1,687,183; Oct. 9.
Smith, Chetwood. (See Nelson, I. I., and Smith.)
Smith, George W., Pittsburgh, assignor to J. M. Hopwood, Dormont Borough, Pa. Treatment of evaporator water. 1,686,715; Oct. 9.
Smith, Harry B., assignor to Bridgman & Rubin, Inc., New York, N. Y. Box-cover-margin turn-in mechanism and method. 1,687,352; Oct. 9.
Smith, John H., Pittsburgh, Pa. Twist meter. 1,686,714; Oct. 9.
Smith, Lathrop F., assignor to Franklin Furniture Company, Columbiana, Ohio. Chair or similar article. Des. 76,559; Oct. 9.
Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 76,560; Oct. 9.
Smith, Wellington J., Cleveland, Ohio. Thermostat. 1,687,230; Oct. 9.
Snell, Carroll C., New York, N. Y. Chest or similar article. Des. 76,561; Oct. 9.
Snyder, Howard F., assignor, by mesne assignments, to The Maytag Company, Newton, Iowa. Wringer. 1,687,401; Oct. 9.
Societe Anonyme Adolphe Saurer. (See Laessker, Jean, assignor.)
Société Anonyme le Carbone. (See Oppenheim, René, assignor.)
Soss, Joseph, Brooklyn, N. Y. Invisible hinge. 1,687,271; Oct. 9.
Southington Hardware Co., The. (See Reynolds, John, assignor.)
Spaulding, Arthur W., Oakland, Calif. Machine for seamless cans. 1,686,644; Oct. 9.
Speed, James B., assignor to Western Electric Company, Incorporated, New York, N. Y. Translating device. 1,687,231; Oct. 9.
Speer, Alexander S., Buffalo, N. Y., assignor, by mesne assignments, to United States Gypsum Company. Plaster board. 1,686,671; Oct. 9.
Sperry, Elmer A., Brooklyn, N. Y. Supporting means for golf bags. 1,686,774; Oct. 9.

Sperry Gyroscope Company, The. (See Crouse, George B., assignor.)
Sperry Gyroscope Company, The. (See Hight, William R., assignor.)
Sperry Gyroscope Company, The. (See House, Frank R., assignor.)
Spink, William, Manayunk, Pa. Yarn-twisting device. 1,687,261; Oct. 9.
Staats, Henry P., and H. S. Newcomer, New York, N. Y. Cigarette and cigar lighter. 1,686,579; Oct. 9.
Stafford, Alfred E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,687,402; Oct. 9.
Stafford, Martin A., deceased; C. S. McFarlin, Harvard, Ill., administratrix. Gaining tool. 1,687,403; Oct. 9.
Standard Pump & Supply Company. (See McMillan, James O., assignor.)
Standard Sanitary Manufacturing Company. (See Smith, Sherman, assignor.)
Stanley, Arthur W., et al. (See Gillenwaters, Frank M., assignor.)
Starrak, James A. (See Lancelot, W. H., and Starrak.)
State Foundry and Pattern Company, The. (See Hinman, Robert M., assignor.)
Steel Heddle Manufacturing Company. (See Kaufmann, John J., assignor.)
Stein, Berthold, Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Making tetranitro-dianthrone. 1,686,992; Oct. 9.
Steinlin, Moritz, and W. Holderegger, St. Gallen, Switzerland. Loom. 1,686,580; Oct. 9.
Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Fuse. 1,687,232; Oct. 9.
Stephenson, Robert J., Chicago, Ill. Roof flashing. 1,686,881; Oct. 9.
Sternaman, Edward C., Chicago, Ill. Calk for athletic shoes. 1,686,775; Oct. 9.
Stevens, Horace D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Method and apparatus for resurfacing solid tires. 1,687,465; Oct. 9.
Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Device for trimming rubber strips. 1,687,466; Oct. 9.
Stewart, Walter H., Quincy, Mass. Rope clamp. 1,686,581; Oct. 9.
Stimpson, Wallace I., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,687,467; Oct. 9.
Stratford, Herbert R., assignor to The Stratmore Company, Cleveland, Ohio. Surfacing apparatus. 1,686,938; Oct. 9.
Stratford, Herbert R., assignor to The Stratmore Company, Cleveland, Ohio. Surfacing disk. 1,687,071; Oct. 9.
Stratmore Company, The. (See Carlton, Richard P., assignor.)
Stratmore Company, The. (See Stratford, Herbert R., assignor.)
Straub, James M., assignor to Electric Welding Company, Pittsburgh, Pa. Concrete reenforcement. 1,687,405; Oct. 9.
Straube Piano Co. (See Betz, William G., assignor.)
Straus, Nathan, & Sons, Inc. (See Rampfel, Heinrich, assignor.)
Street Luminaire Company. (See Paxson, Oliver E., assignor.)
Strickland, Clarence E., assignor of one-third to D. S. Brown and one-third to E. R. Dawson, Atlantic City, N. J. Sign. 1,687,043; Oct. 9.
Stryker, Clinton E., assignor to Fansteel Products Company, Inc., North Chicago, Ill. Regulating alternating current. 1,686,930; Oct. 9.
Stockdale, William A., Zanesville, Ohio. Caster. 1,687,113; Oct. 9.
Stockham, Jennings B., and J. B. Hickman, Broken Bow, Nebr. Combined display and advertising sign board. Des. 76,562; Oct. 9.
Stoller, Hugh M., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Dynamo-electric machine. 1,687,233; Oct. 9.
Stoltzenberg, Hugo, Hamburg, Germany. Destroying cacti. 1,686,582; Oct. 9.
Stoneleigh, Duane R. (See Dorman, W. R., Suydam, and Stoneleigh.)
Stowell, Samuel, Vancouver, British Columbia, Canada. Paper-holding device. 1,687,404; Oct. 9.
Sullivan Machinery Corporation. (See Holmes, Morris P., assignor.)
Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture-film strip. 1,687,044; Oct. 9.
Sunbeam Electric Manufacturing Company. (See Richard, William E., assignor.)
Sundh Electric Company. (See Larsen, Lonis, assignor.)
Sundstrand Engineering Company. (See Sundstrand, Gustaf D., assignor.)
Sundstrand, Gustaf D., assignor, by mesne assignments, to Sundstrand Engineering Company, Rockford, Ill. Oil burner. 1,687,114; Oct. 9.
Supertile Machinery Corporation. (See Flam, Stephen, assignor.)
Sure-Guard Corporation. (See Schauman, K. O., Yancey, and Milfsud, assignors.)
Suren, Nathan H., Needham, assignor to The Gamewell Company, Newton Upper Falls, Mass. Multispeed variable-signal transmitter. 1,687,045; Oct. 9.
Susquehanna Silks Mills. (See Bunting, James H., assignor.)
Suter, Philipp, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Machine mounting. 1,686,993; Oct. 9.
Suydam, Williard V. (See Dorman, W. R., Suydam, and Stoneleigh.)
Swancott, Walter C., Cleveland, Ohio. Automatic limit stop. 1,686,882; Oct. 9.
Swanson, Verner J., Quapaw, Okla., assignor to The A. L. Powell Company Incorporated, Miles City, Mont. Cylinder head and cooling system. 1,687,353; Oct. 9.
Swearingen, Dudley V., Chicago, Ill. Lawn guard. Des. 76,563; Oct. 9.
Sweet, William R., et al. (See Gillenwaters, Frank M., assignor.)
Swensen, Alfred, Riverside, assignor to The Cable Company, Chicago, Ill. Automatic musical instrument. 1,687,046; Oct. 9.
Symington Company, The. (See Couch, Glenn F., assignor.)
Symington Company, The. (See Kadel, Byers W., assignor.)
Systrom, Ernest W., Detroit, assignor to R. T. Romine, Mount Clemens, Mich. Freight-car-door plate. 1,687,354; Oct. 9.
Tate Jones & Company. (See Knapp, James H., assignor.)
Tatousek, Charles, Buffalo, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Printing mechanism for cash registers. 1,686,940; Oct. 9.
Taylor, Charles H., Toronto, Ontario, Canada. Bevel-gear-cutting machine. 1,687,150; Oct. 9.
Taylor, Dell G., Los Angeles, Calif. Oil-well band-wheel speed control. 1,686,883; Oct. 9.
Taylor, Mary A. (See Taylor, William M., assignor.)
Taylor, William M., assignor to M. A. Taylor, Indianapolis, Ind. Vehicle leveling machine. 1,686,941; Oct. 9.
Tedell, John, Springfield, assignor to Montgomery Ward & Co., Inc., Chicago, Ill. Washing-machine assembly. 1,686,538; Oct. 9.
Templeton, David K., assignor to C. R. Bryson, Pittsburgh, Pa. Making cable connections. 1,686,383; Oct. 9.
Terry, Donald M., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionic peak voltmeter. 1,687,234; Oct. 9.
Theobald, Jean G., assignor to International Silver Company, Meriden, Conn. Table set. Des. 76,564; Oct. 9.
Theobald, Jean G., assignor to International Silver Company, Meriden, Conn. Table set. Des. 76,565; Oct. 9.
Thielker, Henry J., assignor to Triplex Safety Glass Company of North America, New York, N. Y. Speech vent. 1,686,942; Oct. 9.
Thomas, George P., Glenshaw, Pa. Clutch. 1,686,584; Oct. 9.
Thomas, Horace T., assignor to Reo Motor Car Company, Lansing, Mich. Combination clutch and brake-control mechanism. 1,686,716; Oct. 9.
Thomas, Wingate, assignor, by mesne assignments, to Porcelain Tile Company, Chicago, Ill. Enameled sheet-metal tile. 1,687,355; Oct. 9.
Thompson, Albert W., Lowell, assignor to Parks-Cramer Company, Boston, Mass. Process and apparatus for conditioning textile materials. 1,687,184; Oct. 9.
Thompson, Fred C., Detroit, Mich., assignor to Morse Chain Company. (See Automatic compensating sprocket. 1,686,672; Oct. 9.
Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,687,151; Oct. 9.
Thompson, Lee, San Diego, Calif. Changeable advertising sign. 1,686,594; Oct. 9.
Timken Roller Bearing Company, The. (See Hauser, A., and Wallin, assignors.)
Tipton, Monroe L., Hyndman, Pa. Track and flange lubricator. 1,687,185; Oct. 9.
Tissue Company, The. (See King, James W., assignor.)
Todd, Victor H., Summit, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,686,645; Oct. 9.
Toledo Automatic Brush Machine Co., The. (See Jobat, Conrad, assignor.)
Toledo Pressed Steel Company, The. (See Close, Lyman W., assignor.)
Toledo Scale Company. (See Cheetham, Gordon B., assignor.)
Toledo Scale Company. (See Hurt, Samuel N., assignor.)
Toledo Scale Company. (See Wetzel, Lewis C., assignor.)
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,566; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,567; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,568; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,569; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,570; Oct. 9.

Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,571; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,572; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,573; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,574; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,575; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,576; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,577; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,578; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,579; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,580; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,581; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,582; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,583; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,584; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,585; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,586; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,587; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,588; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,589; Oct. 9.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,590; Oct. 9.
Townsan, Clarence R., et al. (See Leeper, Jesse C., assignor.)
Townsend, James R. (See Wilson, George W., assignor.)
Townsend Manufacturing Company. (See Jancke, Benno F., assignor.)
Trail, Herbert H., Vancouver, British Columbia, Canada. Brake-operating mechanism. 1,687,047; Oct. 9.
Trapnell, George B., Chester, Pa. Funnel. 1,686,995; Oct. 9.
Trenor, Albert D. (See Hammond, J. H., jr., and Trenor.)
Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, jr. Mine-dropping apparatus. 1,686,884; Oct. 9.
Triplex Safety Glass Company of North America. (See Thielker, Henry J., assignor.)
Trieler, George E., assignor to The Deming Company, Salem, Ohio. Spray gun. 1,686,885; Oct. 9.
Tritch, Alonzo, Paterson, N. J. Suspensory. 1,686,943; Oct. 9.
Troutman, William E. (See Slocum, Frank L., and Troutman.)
Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
Trumbull Electric Manufacturing Company, The. (See Hebden, George R., assignor.)
Trumbull Electric Manufacturing Company, The. (See Leppert, Henry E., assignor.)
Trustees of the Electro Thermostatic Control Company. (See Sauvage, Herbert J., assignor.)
Tryco Products, Inc. (See Holmes, Frederick M., assignor.)
Tubular Products Company, The. (See Bradnack, John H., assignor.)
Tucker, Burke V., Nacogdoches, Tex. Bottom delivery body for vehicles. 1,686,776; Oct. 9.
Tucker, Curtis A. (See MacNeil, J. B., Bakken, and Tucker.)
Turner Tanning Machinery Company. (See Schettler, Gustav A., assignor.)
Turner Tanning Machinery Company, The. (See Schettler, G. A., and Böttger, assignors.)
Tyler, W. S., Company, The. (See Farcb, Mogens, assignor.)
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood, Walter J., Chelsea, London, England. Control of railway trains. 1,687,272; Oct. 9.
Unger, Ernest G., assignor to Keen Waving Company, Incorporated, New York, N. Y. Automatic locking clamp. 1,686,539; Oct. 9.
Union Special Maschinenfabrik G. m. b. H. (See Maier, Karl, assignor.)
Union Switch & Signal Company. The. (See Gilson, Robert M., assignor.)
Union Switch & Signal Company, The. (See Grondahl, Lars O., assignor.)
Union Switch & Signal Company, The. (See Skene, Andrew A., assignor.)
Union Trust Co. of Pittsburgh, The, et al., executors. (See Laughlin, Alexander, jr.)
United Electric Company, The. (See Serva, Adam A., assignor.)
United Shoe Machinery Corporation. (See Buckminster, Ira C., assignor.)
United Shoe Machinery Corporation. (See Goddu, G., and Mackenzie, assignors.)
United Shoe Machinery Corporation. (See Greene, Arthur E., assignor.)
United Shoe Machinery Corporation. (See Lawson, Robert H., assignor.)
United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)
U. S. Slicing Machine Company. (See Van Berkel, Cornelis F., assignor.)
United States Gypsum Company. (See Speer, Alexander S., assignor.)
U. S. Tool Co. (See Dester, William F., assignor.)
Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)
Upson, Ralph H., Detroit, Mich. Kite balloon. 1,686,646; Oct. 9.
Utah-Idaho Sugar Company. (See Peterson, John R., assignor.)
Valley Electric Company. (See Bullivant, Francis J., assignor.)
Van Berkel, Cornelis F. M., Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,687,072; Oct. 9.
Vanderlip, Louis C., Elkhart, Ind. Hood clamp for automobiles. 1,686,886; Oct. 9.
Van Deventer, Harry R., New York, N. Y. Windshield wiper. 1,686,673; Oct. 9.
Van Doorn, Edward C., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture film strip. 1,687,048; Oct. 9.
Van Dorn Iron Works Company, The. (See Brockett, Bluford W., assignor.)
Van Essen, Pieter D., the Hague, Netherlands, assignor to Bethlehem Steel Company. Safety high-explosive impact fuse. 1,687,484; Oct. 9.
Van Etten, William V., Everett, Wash. Dirigible spotlight for automobiles. 1,686,996; Oct. 9.
Van Hise, Lester E., Altadena, assignor to J. V. Baldwin, Los Angeles, Calif. Fluid elevating and feeding means. 1,686,887; Oct. 9.
Vaughn, Versal V., Los Angeles, Calif. Battery-terminal adapter. 1,687,262; Oct. 9.
Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Telegraph cipher system. 1,686,585; Oct. 9.
Vernet, Waldemar. (See Isermann, S., and Vernet.)
Viberg, Ernest R., and A. L. Linderblad, Montreal, Quebec, assignor to Canadian Car and Foundry Company Limited, Montreal, Canada. Direction valve for operating dump cars. 1,687,406; Oct. 9.
Victor Adding Machine Company. (See Garbell, Max, assignor.)
Vila, Frank G. (See Gates, Elisha A., assignor.)
Vincent, Sidney C., Baltimore, Md. Gas burner. 1,687,356; Oct. 9.
Vitale, Giuseppe, Chicago, Ill. Shoe-repair machine. 1,687,152; Oct. 9.
Vivatex Processes, Inc. (See White, Clarence B., assignor.)
Wadsworth, Howard L., assignor, by mesne assignments, to R. H. Cleminshaw, Cleveland, Ohio. Sand-mixing apparatus. Re17,102; Oct. 9.
Wadsworth Watch Case Company, The. (See Conant, Arthur P., assignor.)
Wagner, Eli E., Lewistown, Pa. Automobile skid chain. 1,687,407; Oct. 9.
Wahl, Lars G., Oslo, Norway. Arrangement for weighing goods in a hanging position. 1,686,586; Oct. 9.
Walcott, Colin R., Newaygo, Mich. Line-projecting device. 1,687,115; Oct. 9.
Waldron, John, Corporation. (See Case, Lynn B., assignor.)
Wallin, Philip. (See Hauser, A., and Wallin.)
Walter, John P., Allentown, Pa. Shovel. 1,686,888; Oct. 9.
Ward, Andrew A., Oakland, Calif. Reversible window. 1,687,116; Oct. 9.
Warrick, Charles F., assignor to Penberthy Injector Company, Detroit, Mich. Igniter for oil burners. 1,687,273; Oct. 9.
Warshaw, Nathaniel, Boston, assignor to Lewis-Shepard Company, Watertown, Mass. Governing mechanism for load-hoisting machines. 1,687,186; Oct. 9.
Waterbury Buckle Co. (See La Vigne, Jerome R., assignor.)
Watkins, William O. T., Little Rock, Ark. Playground swing. 1,687,408; Oct. 9.
Watling, Thomas W. B., Chicago, Ill. Vending-machine cabinet. Des. 76,591; Oct. 9.

Watts, Felix J., assignor to H. A. Douglas, Bronson, Mich. Automotive vehicle ignition system. 1,687,274; Oct. 9.
Weber, Heinrich H., Maspeth, N. Y. Egg holder. 1,686,997; Oct. 9.
Weber, Reinhold, San Toy, assignor of one-half to F. A. Ray, Columbus, Ohio. Fastening device to be applied to ropes, cables, and chains. 1,687,409; Oct. 9.
Webster, Duane E., assignor to Norton Company, Worcester, Mass. Rubber bonded abrasive article and making the same. 1,687,410; Oct. 9.
Webster, Lewis E., Wilkes-Barre, Pa. Shovel handle. 1,687,073; Oct. 9.
Weeber, Otto, Berlin, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone desk set. 1,687,117; Oct. 9.
Weidert, Franz, Berlin-Zehlendorf, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Berlin-Friedenau, Germany. Photographic box camera. 1,686,944; Oct. 9.
Weingand, Richard. (See Czapek, E., and Weingand.)
Weiss, Leopold, New York, N. Y. Automobile roof. 1,686,587; Oct. 9.
Wellman, Lester R., Chicago, Ill. Bracket back for lighting fixtures. Des. 76,592; Oct. 9.
Wendemuth, Ernest R., Glen Ridge, N. J. Foot muff. 1,686,588; Oct. 9.
Wenger, David M., Leola, Pa. Swinging wringer support and gear housing. 1,687,411; Oct. 9.
Werner, John C. (See Werner, Otto G., assignor.)
Werner, Otto G., Rochester, N. Y., assignor to J. C. Werner, Genoa, Ohio. Forced-draft-pan-valve structure. 1,686,777; Oct. 9.
Western Electric & Manufacturing Company. (See Fechheimer, Carl J., assignor.)
Western Electric Company. (See Black, Harold S., assignor.)
Western Electric Company. (See Helsing, Raymond A., assignor.)
Western Electric Company. (See Mackeown, Samuel S., assignor.)
Western Electric Company. (See Peterson, Eugene, assignor.)
Western Electric Company. (See Speed, James B., assignor.)
Western Electric Company. (See Stoller, Hugh M., assignor.)
Western Electric Company. (See Terry, Donald M., assignor.)
Western Union Telegraph Company, The. (See Drake, Herbert W., assignor.)
Western Union Telegraph Company. (See Mample, Adolph Z., assignor.)
Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric and Manufacturing Company. (See Baruch, Milton, asignor.)
Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bradshaw, William M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cone, James H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chichton, Leslie N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric & Manufacturing Company et al. (See Getz, Benjamin E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Himes, Walter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Houston, Harold A., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lauffer, F. P., and Hoey, assignors.)
Westinghouse Electric & Manufacturing Company. (See Legg, Joseph W., assignor.)
Westinghouse Electric and Manufacturing Company. (See MacNeill, J. B. Bakken, and Tucker, assignors.)
Westinghouse Electric & Manufacturing Company. (See McWilliams, Arthur C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mottlau, August J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Myllus, W. G., and La Bar, assignors.)
Westinghouse Electric & Manufacturing Company. (See Newhouse, Homer E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Perkins, Lawrence M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Peters, William G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rutter, Argyle R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schuster, Otto P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Todd, Victor H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wise, Allen S., assignor.)
Wetzel, Lewis C., Windsor, Ontario, Canada, assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,686,779; Oct. 9.
Wheeling Stamping Company. (See Edwards, A. L., and McGinnis, assignors.)
Wheeling Steel Corporation. (See Rollason, Charles H., assignor.)
White, Clarence B., Montclair, assignor to Vivatex Processes, Inc., Lodi, N. J. Mineral dyeing. 1,686,540; Oct. 9.
White, Fred C., assignor to Dorado Club Beverage Co., Los Angeles, Calif. Combined bottle display and statuette. Des. 76,593; Oct. 9.
White, Henry, Jr., Buffalo, N. Y. Holder for windshield wipers. 1,687,412; Oct. 9.
White, Phillip A., Long Island City, N. Y. Securing means for demountable rims. 1,686,778; Oct. 9.
Whitney, Anton, Radisson, Wis. Metal crosstie for railroad use. 1,687,049; Oct. 9.
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Rheostat. 1,687,357; Oct. 9.
Wichert, Alfred, Mannheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electrical coupling. 1,687,074; Oct. 9.
Wiebler, George, Fort Madison, Iowa, H. B. Wiebler, Chicago, Ill., and W. T. Wiebler, Davenport, Iowa, assignors of fifty-five per cent to B. M. Cheney, Chicago, Ill. Rail support. 1,687,275; Oct. 9.
Wiebler, Harry B. (See Wiebler, George, H. B., and W. T.)
Wiebler, Walter T. (See Wiebler, George, H. B., and W. T.)
Wiedmaier, Arthur A., assignor of one-half to L. M. Field, Cleveland, Ohio. Variable-speed-transmission mechanism. 1,687,075; Oct. 9.
Wigginton, George P., Kalamazoo, Mich., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Binder. 1,686,780; Oct. 9.
Williams, George K., Port Pirie, South Australia, Australia. Apparatus for use in refining of lead bullion and similar operations. 1,687,187; Oct. 9.
Williams, George K., Port Pirie, South Australia, Australia. Refining of lead bullion containing other metals. 1,687,188; Oct. 9.
Williamson, Ward S., Rock Falls, Ill. Self-cleaning rake. 1,686,781; Oct. 9.
Willys-Overland Company, The. (See Huntington, Edward E., assignor.)
Willys-Overland Company, The. (See Rhoads, Harry E., assignor.)
Wilson, George W., assignor of one-half to J. R. Townsend, Los Angeles, Calif. Railway crossing. 1,686,541; Oct. 9.
Wilson, Ralph B., Pittsburgh, Pa. Double-sliding reversible window. 1,686,589; Oct. 9.
Wine, William E., Toledo, Ohio. Door mechanism for railway cars. 1,686,590; Oct. 9.
Wine, William E., Toledo, Ohio. Hopper-car-door frame. 1,686,591; Oct. 9.
Winkler, Fritz, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacturing fuel gas. 1,687,118; Oct. 9.
Winkler, Louis E., and F. C. Koch, Wichita, Kans. Bubble tower. 1,686,542; Oct. 9.
Winkler, Moses H., Meridian, Miss. Indicator. 1,687,276; Oct. 9.
Wired Radio, Inc. (See Culver, Charles A., assignor.)
Wise, Allen S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Centering drive for washing machines. 1,686,718; Oct. 9.
Witt, Carl J., Sao Paulo, Brazil. Wall hook. 1,687,413; Oct. 9.
Wittliff, Theodore H., Cleveland, Ohio. Furniture brace and tensioning device. 1,687,189; Oct. 9.
Wodtke, Hans V., Buffalo, assignor, by mesne assignments, to General Cable Corporation, New York, N. Y. Electrical cable. 1,686,782; Oct. 9.
Wolff, Oscar M., Chicago, Ill. Meat cooker. 1,687,415; Oct. 9.
Wolters, Carl F., Marietta, Ohio, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Drawer support for articles of furniture. 1,686,783; Oct. 9.
Wolverine Trailer Corporation. (See Byron, Orra E., assignor.)
Wood, Alfred P., assignor of forty-nine one-hundredths to F. L. Murray, Minneapolis, Minn. Storage battery. 1,687,416; Oct. 9.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Cooler for stereotype printing plates. 1,686,784; Oct. 9.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Automatic multiple plate-casting machine. 1,687,414; Oct. 9.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, Robert W., Appleton, Wis. Exerciser. 1,686,890; Oct. 9.
Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Fuel-pulverizing system. 1,686,719; Oct. 9.
Wood, William H., South Euclid, Ohio. Vehicle headlight. 1,686,543; Oct. 9.
Wood, William H., South Euclid, Ohio. Respirator. 1,686,592; Oct. 9.

Wood, William H., South Euclid, Ohio. Vehicle headlight. 1,686,593; Oct. 9.
Woods, Frank C., Cleveland, Ohio. Gaff hook. 1686,889; Oct. 9.
Woodhead, Robert, Hopewell, Va., assignor to V. D. Simons, Chicago, Ill. Cooking wood chips by the alkaline process of pulp manufacture. 1,687,076; Oct. 9.
Woodruff, Charles W., Columbus, Ohio. Removing static. 1,686,998; Oct. 9.
Woodward, Arthur A., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Sleeve-principle engine lubrication. 1,686,720; Oct. 9.
Wulff, Fred, Vega, S. Dak. Handle. 1,687,190; Oct. 9.
Wurlitzer, Rudolph, Mfg. Co. (See Mayer, J. T., Levis, and Schum, assignors.)
Wydler, Hermann, Bern, assignor to Sauser S. A., Soleure, Switzerland. Safety device for liquid-measuring apparatus. 1,687,417; Oct. 9.
Yahraus, John et al., trustees. (See Balnojan, Peter, assignor.)
Yamamoto, Shozo, Osaka-Fu, Japan. Producing lipase. 1,687,050; Oct. 9.
Yancey, Stirling R. (See Schauman, K. O., Yancey, and Mifsud.)
Yardley, Charles F., Larchmont, N. Y. Rail anchor. 1,686,544; Oct. 9.
Yates, P. B., Machine Company. (See Lane, Franklin L., assignor.)
Yoder, Homer P., et al. (See Shay, James M., assignor.)
Yordon, John C., Queens Village, assignor to Laminated Shim Company, Inc., Long Island City, N. Y. Making shims. 1,686,999; Oct. 9.
York Ice Machinery Corporation. (See Shipley, Thomas, assignor.)
Zeller, Isaiah N., New York, N. Y. Food product and preparing the same. 1,686,785; Oct. 9.
Zeller, Isaiah N., Brooklyn, N. Y. Food product and making same. 1,686,786; Oct. 9.
Zeman, Edmund. (See Formánek, F., and Zeman.)
Zins, Hubert, Wabasso, Minn. Veterinary obstetrical forceps. 1,687,418; Oct. 9.
Zouri Drawn Metals Company. (See Nelson, Charles G., assignor.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive article. R. P. Carlton. 1,686,898; Oct. 9.
Abrasive article and making the same, Rubber-bonded. D. E. Webster. 1,687,410; Oct. 9.
Acetaldehyde, Manufacturing. H. S. Reid and W. C. Hovey. 1,687,228; Oct. 9.
Acid material, Solid. H. T. Leo. 1,686 703; Oct. 9.
Aerials for wireless signaling. T. L. Eckesley. 1,686,963; Oct. 9.
Aerohelicopter. F. Formánek and E. Zeman. 1,687,198; Oct. 9.
Air cleaner. D. Head. 1,687,090; Oct. 9.
Aircraft. C. S. Hall. 1,687,203; Oct. 9.
Air die. W. S. Pritchard. 1,687,300; Oct. 9.
Air gun. C. F. Lefever. 1,686,702; Oct. 9.
Air gun, Spring. C. F. Lefever. 1 686,752; Oct. 9.
Air heater. J. H. Hume. 1,686,614; Oct. 9.
Airship. J. S. Abreu. 1,687,000; Oct. 9.
Alarm and system involving the same, Pyrotechnic. H. C. Gammeter. 1,687,159; Oct. 9.
Alarm device, Rotary. L. A. Grimes. 1,686,692; Oct. 9.
Alarm for automobiles, Burglar. E. G. Schultz. 1,687,110; Oct. 9.
Alignment indicator, Wheel-. H. A. Buckert and E. K. Hall. 1,686,895; Oct. 9.
Alkaloids, Obtaining. G. W. F. F. Knoth. 1,686,866; Oct. 9.
Alternate-current machine, Compensated. R. Richter and W. Sarfert. 1,687,311; Oct. 9.
Amplifiers, Method of and apparatus for operating electrical. E. H. Loftin. 1,686,755; Oct. 9.
Amplifying. R. A. Heising. 1,687,245; Oct. 9.
Anchor, Rail. C. F. Yardley. 1,686,544; Oct. 9.
Anchors, Manufacturing sheet-metal rail. L. A. Schneider. 1,686,537; Oct. 9.
Applicator and producing it, Emergency. W. R. Dorman, W. V. Suydam, and D. R. Stonelelgh. 1,687,472; Oct. 9.
Applicator, Electric-heat. A. Klotz. 1,686,865; Oct. 9.
Arch for high-temperature uses, Masonry. F. H. Norton. 1,686,761; Oct. 9.
Automobile body, Convertible. O. E. Horner. 1,687,021; Oct. 9.
Automobile creeper. H. A. Buckert and E. K. Hall. 1,686 896; Oct. 9.
Automobile jack. J. A. Marzolf. 1,687,027; Oct. 9.
Automobile lock. F. M. Gillenwaters. 1,687,475; Oct. 9.
Automobile roof. L. Weiss. 1,686,587; Oct. 9.
Automobile signal. A. S. Bowersox. 1,687,053; Oct. 9.
Automobile signal. F. M. Graham. 1,687,291; Oct. 9.
Automobile signal. J. P. Hanson. 1,687,065; Oct. 9.
Automobile signal. S. Kloos. 1,687,450; Oct. 9.
Autosleigh. F. A. Klein. 1,687,455; Oct. 9.
Azodyestuff, Diazotizable. M. Boeniger. 1,686,947; Oct. 9.
Baling press. G. W. Langford. 1,687,219; Oct. 9.
Ballast-removing machine, Railroad-. J. F. Robb. 1,687,313; Oct. 9.
Bandage roller, cutter, and cabinet. J. J. Moore. 1,687,031; Oct. 9.
Banding machine. O. Muller. 1,686,628; Oct. 9.
Barrier device for stopping vehicles. E. D. Sawyer. 1,687,147; Oct. 9.
Base for portable lamps. A. J. Carmichael. 1,686,551; Oct. 9.
Battery: *See*—
Storage battery.
Battery, electric accumulator, and electrolyzing apparatus. R. Oppenheim. 1,687,307; Oct. 9.
Battery heater. C. R. Daellenbach. 1,687,196; Oct. 9.
Battery of the Leclanché type, Electric. G. N. Antonoff. 1,687,051; Oct. 9.
Battery-terminal adaptor. V. V. Vaughn. 1,687,262; Oct. 9.
Bearing. G. B. Cheetham. 1,686,732; Oct. 9.
Bearing and making it. J. Brincil. 1,686,951; Oct. 9.
Bearing, Car-axle. L. W. Melcher. 1,687,221; Oct. 9.
Bed. F. B. Kaufman. 1,687,338; Oct. 9.
Bed construction. C. J. Kindel. 1,687,098; Oct. 9.
Beveling and sealing clamp. T. F. Little. 1,687,340; Oct. 9.
Bicycle, Tandem. J. Kutarna. 1,687,218; Oct. 9.
Bill fold, cardcase, and key case, Combined. C. Lorber. 1,686,756; Oct. 9.
Binder. G. P. Wigginton. 1,686,780; Oct. 9.
Binder, Magazine. M. W., J. D. and C. Federbush and D. J. and T. R. Baxter. 1,687,434; Oct. 9.
Binding post, Spring. L. Caruso. 1,686,958; Oct. 9.
Bit: *See*—
Roller bit.

Blind appliance, Venetian-. A. C. Hough. 1,687,092; Oct. 9.
Block: *See*—
Building block.
Board: *See*—
Game board. Plaster board.
Panel board. Score board.
Boat, Collapsible. N. M. Rieger. 1,687,387; Oct. 9.
Boiler: *See*—
Cement dump boiler.
Boiler. F. B. Howell. 1,687,160; Oct. 9.
Boiler. A. M. Mertzanoff. 1,687,172; Oct. 9.
Boiler for locomotives, High-pressure steam. J. Buchli. 1,686,893; Oct. 9.
Bookstand. W. E. Haskin. 1,687,443–4; Oct. 9.
Bottle. J. Kleis. Des. 76,544; Oct. 9.
Bottle cap. L. R. N. Carvalho. 1,686,514; Oct. 9.
Bottle cover and nipple support, Nursing-. M. Briggs. 1,687,004; Oct. 9.
Bottle-crowning machine. V. J. Mohler. 1,687,303; Oct. 9.
Bottle-filling machine. S. Greenhouse. 1,868,811; Oct. 9.
Bottle or jar cover. O. Peterson. 1,687,179; Oct. 9.
Bottle protector, Milk-. S. Bardaxoglou. 1,687,153; Oct. 9.
Bottle stopper. R. Matthews. Des. 76,547; Oct. 9.
Bottle washer. M. J. Forth. 1,687,012; Oct. 9.
Bowl or similar article. A. R. Kanné. Des. 76,543; Oct. 9.
Box: *See*—
Switch box.
Box-making machine, Paper-. F. G. Feeley. 1,687,289; Oct. 9.
Bracket: *See*—
Wall bracket.
Bracket back for lighting fixtures. L. R. Wellman. Des. 76,592; Oct. 9.
Bracket for drapery pole or rod. G. Madvig. Des. 76,546; Oct. 9.
Brake: *See*—
Friction brake. Vehicle brake.
Brake heads, Balancing device for. W. H. Baselt. 1,686,648; Oct. 9.
Brake lining. F. J. Eisenhardt. 1,686,903; Oct. 9.
Brake mechanism for lifting jacks. F. L. Gormley. 1,687,127; Oct. 9.
Brake mechanism, Trailer. O. E. Byron. 1,686,730; Oct. 9.
Brake-operating mechanism. H. H. Trail. 1,687,047; Oct. 9.
Brick, Manufacturing magnesite. B. M. O'Harra and E. A. Slagle. 1,686,876; Oct. 9.
Bridge for an ophthalmic mounting. F. R. Bishop. Des. 76,517; Oct. 9.
Brine to be used in electrolytic processes, Purifying. J. Drucker. 1,687,433; Oct. 9.
Broaching machine, Hydraulic. F. J. Lapointe. 1,687,369; Oct. 9.
Brush and handle for vacuum cleaners. A. A. Serva. 1,686,934; Oct. 9.
Brush machines, Work holder for. C. Jobst. 1,687,250; Oct. 9.
Brushing machine. J. Hagen. 1,687,201; Oct. 9.
Bubble tower. L. E. Winkler and F. C. Koch. 1,686,542; Oct. 9.
Buffer construction, Duplex. G. A. Lyon. 1,687,376; Oct. 9.
Building block. H. R. Loughridge. 1,686,757; Oct. 9.
Building element. I. A. Baum. 1,686,724; Oct. 9.
Bumper. C. Gossman. 1,687,287; Oct. 9.
Bumper, Automobile. W. E. Dunston. 1,686,685; Oct. 9.
Bumper, Cable. K. O. Schauman. 1,686,535; Oct. 9.
Bumper, Car. K. O. Schauman, S. R. Yancey, and J. L. Milfsud. 1,686,991; Oct. 9.
Bumper control. K. O. Schauman. 1,686,536; Oct. 9.
Bumper for motor vehicles. F. J. Jaeger. 1,687,337; Oct. 9.
Bumper for vehicles. M. J. Malling. 1,686,829; Oct. 9.
Burner: *See*—
Coal-gas and oxygen burner. Hydrocarbon burner.
Fuel-oil burner. Liquid-fuel burner.
Gas and oil burner. Oil burner.
Gas burner.
Burner with automatically controlled safety valve, Gas. H. Bach. 1,687,358; Oct. 9.
Bus body. W. F. Evans and B. V. Evans. 1,686,740; Oct. 9.
Button clamp for button-attaching machines. R. L. Lyons. 1,686,528; Oct. 9
Button, Push. S. Anthony. 1,686,506; Oct. 9.
Cabinet or similar article, Radiator. P. E. Schleicher and W. C. Calcott. Des. 76,553–4; Oct. 9.

Cabinet, Portable heating. O. E. Heisser. 1,686,613; Oct. 9.
Cabinet, Sectional. E. F. Chandler. 1,686,515; Oct. 9.
Cabinet, Service. F. J. Matchette. 1,686,831; Oct. 9.
Cabinet, Vending machine. T. W. B. Watling. Des. 76,591; Oct. 9.
Cable adjuster, Flexible. W. T. Burke. 1,686,678; Oct. 9.
Cable, Armored electric. O. A. Frederickson. 1,687,013; Oct. 9.
Cable connections, Making. D. K. Templeton. 1,686,583; Oct. 9.
Cable, Electrical. H. V. Wodtke. 1,686,782; Oct. 9.
Cable hook. M. Cox. 1,686,734; Oct. 9.
Cable, Wire. A. Morton. 1,687,257; Oct. 9.
Cacti, Destroying. H. Stoltzenberg. 1,686,582; Oct. 9.
Calcining furnace. J. H. Knapp. 1,686,565; Oct. 9.
Calculator. A. Hunau and P. Hammalian. 1,687,130; Oct. 9.
Calk for athletic shoes. E. C. Sternaman. 1,686,775; Oct. 9.
Came. G. A. Grau. 1,686,809; Oct. 9.
Camera, Photographic box. F. Weidert. 1,686,944; Oct. 9.
Camera shutter. F. Deckel and M. Geiger. 1,687,123; Oct. 9.
Can: *See*—
Safety can.
Can-filling machine. C. H. Ayars. 1,686,946; Oct. 9.
Candy box. F. A. Harpfer. Des. 76,539; Oct. 9.
Candy-forming machine, Plastic-. R. F. Morrison and E. B. Elder. 1,686,759; Oct. 9.
Canopy for ceiling fixtures. R. L. Little. 1,687,166; Oct. 9.
Cap, Aviation. A. M. Mondl. 1,687,346; Oct. 9.
Car construction. F. H. Hardin. 1,686,748; Oct. 9.
Car, Railway. A. Campbell. 1,686,798; Oct. 9.
Carbonizing woolen fibers. R. H. Pott. 1,686,837; Oct. 9.
Carburetor. C. F. Johnson. 1,687,131; Oct. 9.
Card, Credit. H. W. Cook. Des. 76,525; Oct. 9.
Carrier: *See*—
Trunk and luggage carrier.
Carton, Folding egg. L. G. Harrison. 1,686,521; Oct. 9.
Carton, Shipping. O. O. Nickerson. 1,686,834; Oct. 9.
Carving machine. J. E. Cooper. 1,686,960; Oct. 9.
Case: *See*—
Vanity case.
Caster. W. A. Stockdale. 1,687,113; Oct. 9.
Caster or roller, Receding or disappearing. H. A. Buckert and E. K. Hall. 1,686,894; Oct. 9.
Casting, Apparatus for. W. H. Millspaugh. 1,686,624; Oct. 9.
Casting machine, Automatic multiple-plate. H. A. W. Wood. 1,687,414; Oct. 9.
Casting molds or the like, Apparatus for. R. M. Hinman. 1,687,450; Oct. 9.
Castrator, Stock. O. B. Ross. 1,686,990; Oct. 9.
Catch-basin cleaner. E. P. Healey. 1,686,658; Oct. 9.
Ceiling fixture, Globe-holding. M. Schlepp. Des. 76,556; Oct. 9.
Cellulose esters containing halogenated acyl groups and making same. H. T. Clarke and C. J. Malm. 1,687,060; Oct. 9.
Cellulose with lower fatty acids, Esterifying mercerized. H. T. Clarke and C. J. Malm. 1,687,059; Oct. 9.
Cement-dump bailer, Oil-well. A. E. Johnson. 1,687,161; Oct. 9.
Cementing oil, gas, and water wells, Method of and apparatus for. A. Boynton. 1,687,424; Oct. 9.
Cementitious materials, Making cellular. G. B. Hinton. 1,687,067; Oct. 9.
Centering, babbitting, and machining device, Combined. C. H. Crone. 1,686,845; Oct. 9.
Centrifugal separator. D. T. Sharples. 1,687,394; Oct. 9.
Chain and attachment therefor. N. D. Levin. 1,686,566; Oct. 9.
Chain, Automobile skid. E. E. Wagner. 1,687,407; Oct. 9.
Chain, Conveyer. C. A. Brock. 1,687,005; Oct. 9.
Chain, Ornamental. J. Anthony. 1,686,594; Oct. 9.
Chain tightener, Automobile. H. E. Bahnsen. 1,687,318; Oct. 9.
Chair: *See*—
Foldable chair.
Chair construction. F. H. Headley. 1,687,333; Oct. 9.
Chair for automobiles and the like, Supplemental. C. W. Pettigrew. 1,687,038; Oct. 9.
Chair or similar article. L. F. Smith. Des. 76,559; Oct. 9.
Chest or similar article. C. C. Snell. Des. 76,561; Oct. 9.
Chuck. A. L. Currier. 1,686,601; Oct. 9.
Cigarette and cigar lighter. H. P. Staats and H. S. Newcomer. 1,686,579; Oct. 9.
Cinematographic projection apparatus with optical compensation. L. Bertele. 1,687,193; Oct. 9.
Circuit output, Stabilization of. F. E. Fairchild. 1,686,552; Oct. 9.
Clamp: *See*—
Beveling and sealing clamp. Rope clamp.
Flask clamp. Wire-line clamp.
Locking clamp.
Clamp for automobiles, Hood. L. C. Vanderlip. 1,686,886; Oct. 9.
Clarifier and purifier, Washing-liquid. F. E. Bowers. 1,687,235; Oct. 9.

Cleaner: *See*—
Air cleaner. Floor cleaner.
Catch-basin cleaner. Screen cleaner.
Cleaning rake, Self-. W. S. Williamson. 1,686,781; Oct. 9.
Clothes washer. C. Aalborg. 1,686,722; Oct. 9.
Clutch. G. B. Ridley. 1,686,989; Oct. 9.
Clutch. G. P. Thomas. 1,686,584; Oct. 9.
Clutch and brake-control mechanism, Combination. H. T. Thomas. 1,686,716; Oct. 9.
Clutch control. W. S. Myers. 1,686,760; Oct. 9.
Clutch mechanism. C. L. Coughlin. 1,686,682; Oct. 9.
Coal-gas and oxygen burner. W. S. Barker. 1,686,508; Oct. 9.
Coat. K. E. Burns. Des. 76,522; Oct. 9.
Coat. A. A. Siegel. 1,686,577; Oct. 9.
Coffee-making apparatus. A. W. Meyer. 1,687,345; Oct. 9.
Coil construction, Electric-. M. Latour. 1,687,298; Oct. 9.
Comb: *See*—
Fountain comb. Scalp comb.
Compass, Battleship. G. B. Crouse. 1,686,518; Oct. 9.
Compass, Gyroscopic. W. R. Hight. 1,686,524; Oct. 9.
Compressor. J. O. Carrey. 1,686,899; Oct. 9.
Compressor. J. O. McMillan. 1,686,569; Oct. 9.
Concrete mixtures. J. D. Powell. 1,687,227; Oct. 9.
Concrete reenforcement. J. M. Straub. 1,687,405; Oct. 9.
Concrete structure. R. S. Ellis. 1,686,738; Oct. 9.
Condenser. H. H. Ide. 1,686,814; Oct. 9.
Condenser. T. Shipley. 1,686,935; Oct. 9.
Conduit-end fitting. F. I. Johnson. 1,686,616; Oct. 9.
Confection. L. Hasbrouck. Des. 76,540; Oct. 9.
Contact finger. O. P. Schuster. 1,686,648; Oct. 9.
Contact for telephone switches, Bank. K. Böhme and K. Giese. 1,687,121; Oct. 9.
Container. R. De Boer. 1,687,327; Oct. 9.
Container for cabinet refrigerators, Ice. J. E. Gloek'er. 1,687,440; Oct. 9.
Control system, Motor-. H. D. James. 1,686,666; Oct. 9.
Controller actuation. A. E. Loewy. 1,686,754; Oct. 9.
Controller lock. W. A. Chryst. 1,687,058; Oct. 9.
Controlling device, Mechanically-operated speed. D. E. Lewellen. 1,686,916; Oct. 9.
Conveyer. F. W. Cutler. 1,686,519; Oct. 9.
Conveyer. A. G. and A. Ronning. 1,686,533; Oct. 9.
Cooker, Meat. O. M. Wolff. 1,687,514; Oct. 9.
Cooking wood chips by the alkaline process of pulp manufacture. R. Woodhead. 1,687,076; Oct. 9.
Cooler for stereotype printing plates. H. A. W. Wood. 1,686,784; Oct. 9.
Cooling means for mixing devices, Air-. L. S. Harber. 1,686,967; Oct. 9.
Copying device for photographic purposes. A. Iser. 1,687,009; Oct. 9.
Cork to caps, Apparatus and method for applying. A. L. Edwards and J. A. McGinnis. 1,686,687; Oct. 9.
Corncrib and grain bin, Combination. G. A. Meek. 1,686,871; Oct. 9.
Corner construction for closed vehicles. A. Carlson. 1,686,897; Oct. 9.
Counterbalances for motor cars, System of. E. A. Johnson. 1,687,296; Oct. 9.
Coupling: *See*—
Electric coupling. Hose coupling.
Electrical coupling.
Coupling. R. C. Newhouse. 1,687,035; Oct. 9.
Coupling device for transmission of power, Automatic. G. C. Maag. 1,686,827; Oct. 9.
Cover for bathtubs, Protective. J. M. Howlett. 1,686,560; Oct. 9.
Crate, Collapsible. C. Flagstad. 1,687,331; Oct. 9.
Crease retainer. F. Foster. 1,687,158; Oct. 9.
Cultivator. R. J. Altgelt. 1,686,546; Oct. 9.
Cultivator. W. Benslen. 1,687,422; Oct. 9.
Cultivator. J. E. and J. K. Coleman. 1,686,900; Oct. 9.
Cultivator. R. H. Goodman. 1,687,200; Oct. 9.
Cultivator, Tractor. I. K. Kreider. 1,687,457; Oct. 9.
Cup: *See*—
Grease cup.
Current motor, Alternating-. L. M. Perkins. 1,686,637; Oct. 9.
Curtain fixture. P. G. Emery. 1,686,739; Oct. 9.
Cutting cylindrical gears, Method of and machine for. A. H. Candee and M. H. Johanson. 1,686,550; Oct. 9.
Cutting machine, Bevel-gear-. C. H. Taylor. 1,687,150; Oct. 9.
Cutting or welding metal, Apparatus for. R. E. Chapman. 1,687,081; Oct. 9.
Cylinder head and cooling system. V. J. Swanson. 1,687,353; Oct. 9.
Decoration, Translucent. E. H. Horton. 1,687,452; Oct. 9.
Dehorner. E. Anderson. 1,686,723; Oct. 9.
Dental attachment. W. G. Bridge. 1,686,950; Oct. 9.
Dental device. H. E. Barker. 1,687,079; Oct. 9.
Dental X-ray package. M. B. Hodgson. 1,687,068; Oct. 9.
Depth-indicating device, Liquid. H. W. King and W. E. Bandemer. 1,687,215–6; Oct. 9.
Desk set, Telephone. O. Weeber. 1,687,117; Oct. 9.
Detent mechanism for door closers and the like. J. J. Drexler and H. H. Munson. 1,687,009; Oct. 9.

Developing machine, Film-. H. K. Fairall. 1,686,907; Oct. 9.
Die: *See*—
Air die.
Direction indicator. J. Y. Ainsa. 1,687,419; Oct. 9.
Direction indicator. G. L. Baughman. 1,687,421; Oct. 9.
Direction signal, Automobile. C. O. Larson. 1,687,164; Oct. 9.
Dish or similar article. W. P. Graham. Des. 76,536–7; Oct. 9.
Dishwashing machine. G. S. Blakeslee. 1,686,511; Oct. 9.
Disk, Surfacing. H. R. Stratford. 1,687,071; Oct. 9.
Dispensing device. S. E. Ross and P. H. Bowlsby. 1,687,146; Oct. 9.
Dispensing device, Paper-. R. F. Fredlund. 1,686,911; Oct. 9.
Dispensing lubricants, Apparatus for. F. D. Gatchell. 1,687,014; Oct. 9.
Dispensing machine. A. F. Files. 1,686,804; Oct. 9.
Display and statuette, Combined bottle. F. C. White. Des. 76,593; Oct. 9.
Display apparatus. O. Samminiatelli. 1,687,391; Oct. 9.
Display device for merchandise. H. L. Myers. 1,687,137; Oct. 9.
Display hanger. J. A. Boatwright. 1,687,423; Oct. 9.
Display stand. E. Bruuhoff. 1,686,954; Oct. 9.
Display stand. C. R. Hamlin. 1,687,205; Oct. 9.
Display stand for merchandise. H. L. Myers. 1,687,136; Oct. 9.
Display stand for merchandise. H. L. Myers. 1,687,138; Oct. 9.
Distributing apparatus for liquids, Automatic. L. H. Cornwall and G. P. Schmitt. 1,687,007; Oct. 9.
Oct. 9.
Door. A. Kirschbaum. 1,686,819; Oct. 9.
Door catch. F. E. Forg. 1,686,805; Oct. 9.
Door control, Car-. G. E. Oakley. 1,687,223; Oct. 9.
Door frame, Hopper-car-. W. E. Wine. 1,686,591; Oct. 9.
Door frame, Wood and metal. I. A. Baum. 1,686,725; Oct. 9.
Door knocker. L. P. Hagan. Des. 76,538; Oct. 9.
Door mechanism, Car-. B. W. Kadel. 1,686,618; Oct. 9.
Door mechanism for railway cars. W. E. Wine. 1,686,590; Oct. 9.
Door-operating mechanism. C. W. Gorman. 1,686,851; Oct. 9.
Door plate, Freight-car-. E. W. Systrom. 1,687,354; Oct. 9.
Draft rigging. B. W. Kadel. 1,687,163; Oct. 9.
Drainer, Automobile crank-case. H. Higgins, A. L. Fish, and J. L. O'Hare. 1,686,749; Oct. 9.
Drawer support for articles of furniture. C. F. Wolters. 1,686,783; Oct. 9.
Drawing board and attached straight edge. C. C. Nuckols. 1,686,980; Oct. 9.
Dressing attachment for hob-grinding machines and method of dressing grinding wheels. J. Edgar. 1,686,802; Oct. 9.
Drier: *See*—
Fuel drier.
Driving mechanism for work spindles. A. L. Harrington. 1,686,746; Oct. 9.
Drying machine, Differential. W. Bock. 1,686,597; Oct. 9.
Drying oriental rugs, Process and apparatus for. L. B. Case. 1,686,680; Oct. 9.
Duplicating machine. J. Flanigan. 1,687,157; Oct. 9.
Duplicating machine, Stencil-. E. J. Brasseur. 1,687,003; Oct. 9.
Duplicating or printing apparatus and particularly photographic step-and-repeat contact-printing apparatus. R. Harris. 1,686,559; Oct. 9.
Dyeing, Mineral. C. B. White. 1,686,540; Oct. 9.
Dynamite composition. N. C. Johnson and S. G. Baker, jr. 1,687,023; Oct. 9.
Egg product and producing the same. A. K. Epstein. 1,687,268–70; Oct. 9.
Ejector. J. M. Lucarelle. 1,687,375; Oct. 9.
Electric coupling. F. M. Rosenzweig. 1,686,534; Oct. 9.
Electric heater. F. H. McCormick. Des. 76,548; Oct. 9.
Electric heater. H. G. Landis. 1,686,868; Oct. 9.
Electric machine, Dynamo-. H. M. Stoller. 1,687,233; Oct. 9.
Electric switch. B. E. Getchell. 1,687,199; Oct. 9.
Electric switch. C. W. Gorman. 1,686,852; Oct. 9.
Electric-wave producer. S. S. Mackeown. 1,687,220; Oct. 9.
Electrical conecter. F. J. Bullivant. 1,686,842; Oct. 9.
Electrical coupling. A. Wichert. 1,687,074; Oct. 9.
Electrical heater. J. H. Hussey. 1,686,860; Oct. 9.
Electroresponsive devices, Apparatus for causing intermittent operation of. L. O. Grondahl. 1,687,017; Oct. 9.
Elevating and feeding means, Fluid. L. E. Van Ilise. 1,686,887; Oct. 9.
Elevating grain. C. Brzecinski. 1,686,793; Oct. 9.
Elevator. M. Baruch. Re17,097; Oct. 9.
Elevator. H. C. Lisle, and F. H. Lewis. 1,686,825; Oct. 9.
Elevator-car construction. M. Farch. 1,687,087; Oct. 9.
Elevators, Control system for. L. I. Davis. 1,686,684; Oct. 9.
Eliminator, Interference and static. E. C. Raasch. 1,686,878; Oct. 9.
Emetine derivatives for therapeutical purposes. E. Rothlin and F. Müller. 1,686,930; Oct. 9.
Engine: *See*—
Internal-combustion engine. Marine engine.
Engine and timing the valves thereof, Internal-combustion. D. Cole. 1,687,082; Oct. 9.
Engine lubrication, Sleeve-principle. A. A. Woodward. 1,686,720; Oct. 9.
Envelope. P. Fort. 1,687,436; Oct. 9.
Escape device for submarines. H. Brownlee. 1,686,892; Oct. 9.
Exerciser. R. W. Wood. 1,686,890; Oct. 9.
Explosive composition, Gelatinized. K. R. Brown. 1,686,952; Oct. 9.
Extract, Making liquid coffee. F. L. Slocum and W. E. Troutman. 1,687,112; Oct. 9.
Extractor: *See*—
Juice extractor.
Eyeglasses, Setting for. A. H. L. Christensen. 1,686,516; Oct. 9.
Eyes for dolls, display figures, and the like, Artificial. S. Marcus. 1,687,478; Oct. 9.
Fabric or the like, Printed textile. E. Ericson. Des. 76,526–7; Oct. 9.
Fabric or the like, Printed textile. L. J. Siracusano. Des. 76,558; Oct. 9.
Fastener, Curtain. H. Dusold. 1,687,284; Oct. 9.
Fastener, Double-pointed-pin. G. Boden and G. A. King. Re17,100; Oct. 9.
Fastener, Double-pointed-pin. G. Boden, G. A. King, and L. B. Chapman. Re17,099; Oct. 9.
Fastener for ventilators. G. I. Barclay. 1,687,263; Oct. 9.
Fastener, Shingle. C. F. Ames, jr. 1,686,675; Oct. 9.
Fastener, Window. C. F. Polack. 1,686,572; Oct. 9.
Fastening device to be applied to ropes, cables, and chains. R. Weber. 1,687,409; Oct. 9.
Fastening-inserting machine. G. Goddu and F. L. Mackenzie. 1,686,808; Oct. 9.
Faucet. S. Smith. Des. 76,560; Oct. 9.
Feeder, Sheet. E. W. Belluche. 1,686,510; Oct. 9.
Feeder, Sheet. E. W. Belluche. 1,686,595; Oct. 9.
Feeding device, Rim-. W. S. Brink. 1,687,403; Oct. 9.
Feeding mechanism, Blank-. F. G. Feeley. 1,687,290; Oct. 9.
Feeding mechanism, Variable. W. F. Grupe. 1,687,241; Oct. 9.
Feeding system, Fuel-. A. G. Redmond. 1,686,574; Oct. 9.
Fence protector. H. H. Schuette. 1,686,576; Oct. 9.
Film strip, Motion-picture-. J. H. Haste. 1,687,066; Oct. 9.
Filter for high-frequency oscillations. H. J. J. M. de R. de Bellescize. 1,687,002; Oct. 9.
Filtration of alkaline waters. R. E. Hall. 1,686,558; Oct. 9.
Finder, Erecting. G. A. Mitchell. 1,687,030; Oct. 9.
Firebox for locomotive boilers, Water-tube. G. H. Emerson. 1,687,197; Oct. 9.
Fixture. W. Harrison and E. E. Luaceford. 1,686,856; Oct. 9.
Flask clamp. H. M. Carroll, sr. 1,687,195; Oct. 9.
Flat for cellular fillers. L. Oxhandler. 1,687,224; Oct. 9.
Flavoring material, Solid. H. T. Leo. 1,686,670; Oct. 9.
Floor cleaner. W. Dentscher. 1,687,283; Oct. 9.
Floor, Nonslip. D. J. Murnane. 1,686,919; Oct. 9.
Flour, Application of cold to the manufacture of. J. J. B. Loizillon. 1,687,300; Oct. 9.
Flow regulation. J. A. Hedgcock. 1,687,446; Oct. 9.
Flow regulator, Liquid-. P. M. Freer. 1,687,286; Oct. 9.
Foldable chair. F. Corser and W. Peach. 1,686,599; Oct. 9.
Folding machine. L. H. Morin. 1,687,222; Oct. 9.
Food package. G. G. Barber. 1,687,052; Oct. 9.
Food product and making same. I. N. Zeller. 1,686,786; Oct. 9.
Food product and making the same. M. S. Bolton. 1,687,154; Oct. 9.
Food product and preparing the same. I. N. Zeller. 1,686,785; Oct. 9.
Food product, Emulsified. G. G. Griswold. 1,686,556; Oct. 9.
Football protective harness. H. Goldsmith. 1,687,126; Oct. 9.
Forceps, Veterinary obstetrical. H. Zins. 1,687,418; Oct. 9.
Fountain comb. W. C. Simpson. 1,686,936; Oct. 9.
Frame: *See*—
Door frame.
Heddle frame.
Stove frame.
Frame or similar article, Settee. C. T. Graham. Des. 76,533–4; Oct. 9.
Freezing-point depressants. S. Isermann and W. Vernet. 1,687,094; Oct. 9.
Friction brake. J. S. Thompson. 1,687,151; Oct. 9.
Fuel drier. M. Frisch. 1,686,690; Oct. 9.
Fuel feeder. C. A. Fleetwood and W. H. Lysinger. 1,687,435; Oct. 9.
Fuel-oil burner. F. H. Moore. 1,686,883; Oct. 9.
Fuel, Producing dry gaseous. E. R. Godward. 1,686,610; Oct. 9.
Fuel-pulverizing system. W. R. Wood. 1,686,719; Oct. 9.
Fuel to internal-combustion engines, Supplying. A. G. Redmond. 1,686,573; Oct. 9.
Funnel. G. B. Trapnell. 1,686,995; Oct. 9.
Furnace: *See*—
Calcining furnace.
Heating furnace.
Metallurgical furnace.

Furnace attachment. F. D. Kenyon. 1,687,214; Oct. 9.
Furnace wall. N. E. Lewis and H. J. Kerr. 1,686,976; Oct. 9.
Furnaces, Checkerwork for open-hearth and blast. F. H. Loftus. 1,686,826; Oct. 9.
Furniture brace and tensioning device. T. H. Wittliff. 1,687,189; Oct. 9.
Fuse. A. G. Steinmayer. 1,687,232; Oct. 9.
Fuse for projectiles. W. L. Lukens and R. R. Carey. 1,687,341; Oct. 9.
Fuse plug, Indicating. J. F. Orlando. 1,687,037; Oct. 9.
Fuse, Refillable. J. H. Hickey. 1,687,247; Oct. 9.
Fuse, Renewable. J. H. Hickey. 1,687,246; Oct. 9.
Fuse, Safety high-explosive impact. P. D. Van Essen. 1,687,484; Oct. 9.
Gaff hook. F. C. Woods. 1,686,889; Oct. 9.
Game, Baseball. C. Jones. 1,687,162; Oct. 9.
Game board, Baseball. H. E. Pickett. 1,687,180; Oct. 9.
Game board, Golf. F. Kurtz. 1,687,217; Oct. 9.
Game, Pocket-golf. M. Alland. 1,686,647; Oct. 9.
Gas-administering apparatus. E. I. McKesson. 1,687,255; Oct. 9.
Gas and oil burner, Combination. E. Ritter. 1,687,390; Oct. 9.
Gas burner. H. D. Schrader. 1,686,711; Oct. 9.
Gas burner. S. C. Vincent. 1,687,356; Oct. 9.
Gas heater. F. M. Miner, jr. Re17,098; Oct. 9.
Gas, Manufacturing fuel. F. Winkler. 1,687,118; Oct. 9.
Gases or exhaust gases containing carbon dioxide, Apparatus for utilising impure. F. Riedel. 1,687,229; Oct. 9.
Gate: *See*—
Starting gate.
Gate and signal, Automatic railroad-crossing. D. Schneider. 1,686,771; Oct. 9.
Gauge for roller mills, Micrometer. J. T. Barber. 1,687,192; Oct. 9.
Gauging machine. A. Hauser and P. Wallin. 1,686,694; Oct. 9.
Gear actuator, Reverse-. R. L. Doolittle and W. C. Hunter. 1,687,366; Oct. 9.
Gear construction, Planetary reduction-. E. K. Baker. 1,687,077; Oct. 9.
Gear-cutting machine. H. G. Hartman. 1,686,522; Oct. 9.
Gear, Friction draft. S. Hansson. 1,686,612; Oct. 9.
Gear power. J. Reid. 1,686,925; Oct. 9.
Gear-shifting device, Automatic. J. Kirkeby. 1,686,914; Oct. 9.
Generating appliance, Gas-. H. L. Schneider. 1,687,148; Oct. 9.
Glass, sand, or flint paper, emery cloth, and abrasives, Manufacture of. C. A. Klein and R. S. Brown. 1,687,453; Oct. 9.
Glass, sand, or flint paper, emery cloth, or like abrasives. C. A. Klein and R. S. Brown. 1,687,454; Oct. 9.
Globe-holding electric fixture. M. Schlepp. Des. 76,555; Oct. 9.
Glove. W. E. Meyers. 1,687,380; Oct. 9.
Golf tees, Device for forming. M. J. Keevers. 1,687,024; Oct. 9.
Governing mechanism for load-hoisting machines. N. Warshaw. 1,687,186; Oct. 9.
Governor, Engine. H. E. Rhoads. 1,686,839; Oct. 9.
Grease cup. J. F. Culp. 1,686,801; Oct. 9.
Greasing machine Pan-. L. S. Harber. 1,686,968; Oct. 9.
Grinder, Valve. J. M. North. 1,687,382; Oct. 9.
Guard and step, Combined gear. H. V. Ball. 1,687,078; Oct. 9.
Gun, Rivet-cutting. J. M. Crowe. 1,687,326; Oct. 9.
Gun, Spray. G. E. Trisler. 1,686,885; Oct. 9.
Hair piece. J. Oppenheim. 1,686,636; Oct. 9.
Handicapping device. W. B. Burke. 1,686,843; Oct. 9.
Handle: *See*—
Shovel handle.
Tool handle.
Handle. F. Wulff. 1,687,190; Oct. 9.
Handle grip. G. W. Mattern. 1,687,170; Oct. 9.
Hanger: *See*—
Display hanger.
Hanger. B. B. Eilerbeck. 1,686,655; Oct. 9.
Hanger support, Clothes-. M. B. O'Neil. 1,687,383; Oct. 9.
Headlight. W. L. Geddes. 1,686,656; Oct. 9.
Headlight attachment. D. Ringers. 1,687,144; Oct. 9.
Headlight, Vehicle. W. H. Wood. 1,686,543; Oct. 9.
Headlight, Vehicle. W. H. Wood. 1,686,593; Oct. 9.
Headrest. A. J. May. 1,686,631; Oct. 9.
Heat regenerator. J. R. Buffington. 1,687,236; Oct. 9.
Heater: *See*—
Air heater.
Battery heater.
Electric heater.
Electrical heater.
Gas heater.
Unit heater.
Water heater.
Heater and muffler device, Combined. W. F. Mark. 1,687,168; Oct. 9.
Heating furnace. J. Hirschmann. 1,686,696; Oct. 9.
Heating method and apparatus. F. Puening. 1,687,142; Oct. 9.
Heating unit and forming and assembling same, Electric. E. R. Case. 1,686,795; Oct. 9.
Heating value per unit volume of a flowing combustible mixture of fluids, Method of and apparatus for maintaining substantially constant the total. U. O. Hutton and E. X. Schmidt. 1,686,751; Oct. 9.
Heddle frame. J. J. Kaufman. 1,687,096–7; Oct. 9.
Heel machine, Wood-. W. J. Shaw. 1,686,773; Oct. 9.
Hinge. S. F. and H. S. Mountford. 1,687,174; Oct. 9.
Hinge, Can-cover. F. G. Davison. 1,686,736; Oct. 9.
Hinge, Invisible. J. Soss. 1,687,271; Oct. 9.
Hoisting mechanism. M. P. Holmes. 1,686,971; Oct. 9.
Holder. W. A. Lacy. 1,686,526; Oct. 9.
Holder, Combined collar and necktie. W. Polgar. 1,686,986; Oct. 9.
Holder, Combined license and number plate. E. A. Gates. Des. 76,530; Oct. 9.
Holder, Egg. H. H. Weber. 1,686,997; Oct. 9.
Holder, Film. G. L. Chanler. 1,686,650; Oct. 9.
Holder, Foldable milking-pail. E. O. Guiseth. 1,687,242; Oct. 9.
Holder for ice-cream boxes and the like. F. A. Reardon. Des. 76,551; Oct. 9.
Holder for windshield wipers. H. White, jr. 1,687,412; Oct. 9.
Holder, Necktie. N. Henninger. 1,687,129; Oct. 9.
Holder, Postage-stamp. G. W. Casteel. 1,686,959; Oct. 9.
Hollow flexible bodies from their molds, Detaching. E. Czapek and R. Weingand. 1,687,282; Oct. 9.
Hook: *See*—
Cable hook
Gaff hook.
Wall hook.
Hook for oil-well elevators, Latching. W. F. Cornelius. 1,687,006; Oct. 9.
Hose coupling. G. E. Hazard. 1,687,445; Oct. 9.
Housing, Bendix. L. M. Kesler. 1,686,861; Oct. 9.
Hydrocarbon burner. C. O. Everhart. 1,686,846; Oct. 9.
Igniter for multiple gas burners, Selective. W. F. Dester. 1,686,604; Oct. 9.
Igniter for oil burners. C. F. Warrick. 1,687,273; Oct. 9.
Ignition apparatus. J. H. Lehman. 1,686,527; Oct. 9.
Ignition device. W. D. Schrope. 1,687,040; Oct. 9.
Ignition system, Automotive vehicle. F. J. Watts. 1,687,274; Oct. 9.
Ignition timer. T. A. Edwinson, jr. 1,686,686; Oct. 9.
Index device. E. Carlson. 1,686,731; Oct. 9.
Indicating means for vending machines. F. J. Brandt. 1,686,949; Oct. 9.
Indicating mechanism for vehicles, Speed-. C. de Malherbe. 1,686,623; Oct. 9.
Indicator: *See*—
Alignment indicator.
Direction indicator.
Slip indicator.
Indicator. M. H. Winkler. 1,687,276; Oct. 9.
Indicator-securing means, Thermostatic-. C. H. Morrow. 1,687,104; Oct. 9.
Injecting liquid fuel into internal-combustion engines. S. D. O'sen. 1,687,176; Oct. 9.
Inserting fastenings. R. H. Lawson. 1,686,820; Oct. 9.
Insulating material. W. M. Emerson. 1,687,285; Oct. 9.
Interference elimination. A. Hubner. 1,687,295; Oct. 9.
Internal-combustion engine. J. Brugger. 1,686,794; Oct. 9.
Internal-combustion engine. H. H. Platt. 1,687,348; Oct. 9.
Internal-combustion engine, Rotary. J. A. Saxon. 1,686,767; Oct. 9.
Internal-combustion engine, Rotary-valve. J. B. Mankin. 1,686,758; Oct. 9.
Internal-combustion motor. H. Briggs. 1,687,425; Oct. 9.
Ironing machines, Automatic magnetic release for. H. E. Newhouse. 1,686,708; Oct. 9.
Jack. *See*—
Automobile jack.
Joint: *See*—
Universal joint.
Joint construction, Metal-tank-. J. P. Madden. 1,687,343; Oct. 9.
Jug, Glass. S. A. Langenbaker. Des. 76,545; Oct. 9.
Juice extractor. J. Moscrip. 1,687,463; Oct. 9.
Key-button assembly. M. Garbell. 1,686,608; Oct. 9.
Kiln, Electrically-heated. G. Keller. 1,687,025; Oct. 9.
Kite balloon. R. H. Upson. 1,686,646; Oct. 9.
Knife. R. E. Brown. Des. 76,520; Oct. 9.
Knife or similar article, Putty. J. Reynolds. Des. 76,552; Oct. 9.
Knitting machine. V. Lombardi. 1,687,132; Oct. 9.
Labeling machine. E. Ermold. 1,686,605; Oct. 9.
Lamp. W. W. Moru. 1,687,347; Oct. 9.
Lamp. A. D. Price. 1,687,141; Oct. 9.
Lamp and support therefor, Electric. H. M. Koretzky. 1,687,483; Oct. 9.
Lamp fixture. J. T. Holmes. 1,686,663; Oct. 9.
Lamp, Signal. S. L. Lebby. 1,686,822; Oct. 9.
Lamp, Therapeutic. P. E. Johnson. Des. 76,542; Oct. 9.
Land roller. E. Ringel. 1,687,389; Oct. 9.
Lantern. O. E. Paxson. Des. 76,549; Oct. 9.
Latch, Hospital. N. B. Hurd. 1,687,248; Oct. 9.
Latch, Seal. E. A. Conaway. 1,687,088; Oct. 9.
Lathes, Carriage-stop mechanism for. F. C. Dull. 1,686,743; Oct. 9.
Lavatory fixture. A. W. Hallberg. 1,687,019; Oct. 9.
Lawn guard. D. V. Swearingen. Des. 76,563; Oct. 9.
Leather or similar article. T. A. Glendon, jr. Des. 76,532; Oct. 9.
Lens for headlights. H. C. Foster. 1,686,908; Oct. 9.
Leveler, Concrete-floor screed. A. Dudfield and G. P. Morris. 1,686,902; Oct. 9.
Leveling machine, Vehicle. W. M. Taylor. 1,686,941; Oct. 9.

Lever arch. H. F. Frease. 1,686,910; Oct. 9.
Lid, Display. E. Brunhoff. 1,686,955; Oct. 9.
Light-distributing device. E. Benson and F. M. Durkee. 1,687,119; Oct. 9.
Lighting and signaling mechanism for automotive vehicles, Combined. G. L. Cragg. 1,686,600; Oct. 9.
Lighting fixture. H. Plaut. 1,686,571; Oct. 9.
Lighting system for automobiles. E. B. Huntington. 1,686,859; Oct. 9.
Lights of heavy-oil burners for furnaces, boilers, and the like, Device for automatically controlling pilot. S. L. Mershon. 1,687,135; Oct. 9.
Lightning arrester, Multigap. J. R. McFarlin. 1,687,254; Oct. 9.
Limit stop, Automatic. W. C. Swanscott. 1,686,882; Oct. 9.
Line-projecting device. C. R. Walcott. 1,687,115; Oct. 9.
Lipase, Producing. S. Yamamoto. 1,687,050; Oct. 9.
Liquid-fuel burner. J. H. Reeve. 1,687,386; Oct. 9.
Lock: *See*—
Automobile lock. Controller lock.
Lock. E. N. Jacobi. 1,686,665; Oct. 9.
Lock. J. Rigo. 1,687,388; Oct. 9.
Lock and electric circuits, Vehicle. A. E. Paige. 1,686,763; Oct. 9.
Lock for cotton-press doors. T. Elliott. 1,686,744; Oct. 9.
Lock for gas-stove valves, Safety. L. Faba. 1,686,906; Oct. 9.
Lock for paver buckets, Back-movement. E. H. Lichtenberg. 1,687,299; Oct. 9.
Lock for window regulators. H. B. Haskins. 1,687,243; Oct. 9.
Locking clamp, Automatic. E. G. Unger. 1,686,539; Oct. 9.
Locomotive booster. M. H. Roberts and M. T. Forker. 1,686,710; Oct. 9.
Locomotive, Electric. A. T. Kasley. 1,686,697; Oct. 9.
Locomotive smoke-box structure. W. L. Bean. 1,686,788; Oct. 9.
Loom. M. Steinlin and W. Holderegger. 1,686,580; Oct. 9.
Loom-stopping mechanism. H. A Davis. 1,687,471; Oct. 9.
Looms, Feeler mechanism for. A. E. Stafford. 1,687,402; Oct. 9.
Looms, Leno motion for. H. A. Davis. 1,687,363; Oct. 9.
Looms, Warp stop mechanism for. R. C. Hunter. 1,687,477; Oct. 9.
Loud speaker. N. Baldwin. 1,687,359; Oct. 9.
Loud speaker. L. Fleischmann. 1,687,011; Oct. 9.
Lubricating system for internal-combustion engines. F. E. Lonas. 1,686,824; Oct. 9.
Lubricator. L. H. Miller. 1,686,872; Oct. 9.
Machine for countersinking pipe couplings. A. Briese and R. Callow. 1,686,841; Oct. 9.
Machine for feeding headed blanks. J. M. Lynch and W. S. Gilmour. 1,687,134; Oct. 9.
Machine for forming internal grooves in gears, etc. J. Laessker. 1,687,252; Oct. 9.
Machine for making actuating members for steering gears. D. E. Ross. 1,687,259; Oct. 9.
Machine for making and filling bags. A. M. Bates. 1,686,787; Oct. 9.
Machine for operating on parts of boots and shoes. I. C. Buckminster. 1,686,728; Oct. 9.
Machine for operating upon hides, skins, leather, and other similar pieces of work. G. A. Schettler and O. Böttger. 1,686,769; Oct. 9.
Machine for producing gears. E. C. Head. 1,686,523; Oct. 9.
Machine for seamless cans. A. W. Spaulding. 1,686,644; Oct. 9.
Machine for treating hides, skins, leather, and other like pieces of material. G. A. Schettler. 1,686,768; Oct. 9.
Machine for tying knots in spiral springs. D. Hananer. 1,687,476; Oct. 9.
Machinery, Baker's. W. L. Freund and F. B. Menner. 1,686,607; Oct. 9.
Machinery, Bakery. C. F. Betz. 1,686,596; Oct. 9.
Magnifying glass, Illuminated hand. C. T. Brady. Des. 76,519; Oct. 9.
Mandrel. F. F. Filloon. 1,687,329; Oct. 9.
Map or chart, Folding. A. R. Morris. 1,687,304; Oct. 9.
Margin turn-in mechanism and method, Box-cover-. H. B. Smith. 1,687,352; Oct. 9.
Marine engine. E. L. Grindle. 1,687,288; Oct. 9.
Marker for continuous weighing devices. M. Castricum. 1,687,321; Oct. 9.
Massage implement. C. Broadbent. 1,686,598; Oct. 9.
Material-carrying flight. N. D. Levin. 1,686,567; Oct. 9.
Mattress-making apparatus. J. W. Bowersox. 1,687,002; Oct. 9.
Measuring instrument, Electrical. W. M. Bradshaw. 1,686,727; Oct. 9.
Measuring instrument, Electrical. J. H. Cone. 1,686,652; Oct. 9.
Measuring instrument, Electrical. J. W. Legg. 1,686,669; Oct. 9.
Measuring instrument, Electrical. W. G. Mylius and B. G. La Bar. 1,686,635; Oct. 9.
Measuring instrument, Electrical. R. T. Pierce. 1,686,639; Oct. 9.
Measuring instrument, Electrical. A. R. Rutter. 1,686,712; Oct. 9.
Measuring instrument, Electrical. V. H. Wood. 1,686,645; Oct. 9.
Measuring pot, Float-supported. J. Leyland. 1,686,823; Oct. 9.
Measuring production, Apparatus for. P. A. Cooney. 1,687,281; Oct. 9.
Medicament cartridge and hypodermic syringe embodying the same. H. S. Cook. 1,687,323; Oct. 9.
Metal cross tie for railroad use. A. Whitney. 1,687,049; Oct. 9.
Metal-dust mixture, Producing a. M. H. Newell. 1,687,034; Oct. 9.
Metallurgical furnace. H. Butt. 1,687,470; Oct. 9.
Meter: *See*—
Pressure meter. Watthour meter.
Twist meter.
Microphone. C. A. Culver. 1,686,901; Oct. 9.
Milanese machine. S. S. Fletcher. 1,686,847; Oct. 9.
Milling machine, Continuous. E. J. Rollings. 1,687,350; Oct. 9.
Mine-dropping apparatus. A. D. Trenor. 1,686,884; Oct. 9.
Mining machine. E. O'Toole. 1,687,306; Oct. 9.
Mixing apparatus. R. B. Brown. 1,686,953; Oct. 9.
Mixing apparatus, Sand. H. L. Wadsworth. Re17,102; Oct. 9.
Mold: *See*—
Multiple mold.
Mooring means for airships. R. P. Fox. 1,686,806; Oct. 9.
Motor: *See*—
Current motor. Piston motor.
Internal-combustion motor. Two-cycle motor.
Outboard motor. Wind motor.
Motor control system. E. M. Bouton. 1,686,948; Oct. 9.
Motor controller. R. G. Lockett. 1,686,753; Oct. 9.
Motor for driving hydroextractors. H. A. Romp. 1,687,039; Oct. 9.
Motor support or suspension. F. W. Slack. 1,686,578; Oct. 9.
Motors, Charge-forming structure for internal-combustion. G. W. Donning. 1,686,737; Oct. 9.
Motors, Rotor for induction. E. P. Lauffer and S. C. Hoey. 1,686,699; Oct. 9.
Mounting, Machine. P. Suter. 1,686,993; Oct. 9.
Mower, Lawn. W. H. Haines. 1,687,202; Oct. 9.
Mowers, Grass conveyer for lawn. J. C. Johnson. 1,686,563; Oct. 9.
Muff, Foot. E. R. Wendemuth. 1,686,588; Oct. 9.
Muffler, Boiler blow-off. T. E. Paradise. 1,687,308; Oct. 9.
Multiple mold. S. Flam. 1,687,010; Oct. 9.
Multiplication device. K. Seifert. 1,687,182; Oct. 9.
Music rolls, Method and apparatus for preparing. J. C. Hagey. 1,686,557; Oct. 9.
Musical instrument, Automatic. A. Swensen. 1,687,046; Oct. 9.
Nailing machine. E. R. Pope. 1,686,764; Oct. 9.
Nailing machine, Heel-. E. R. Pope. 1,686,765; Oct. 9.
Nautical position finder. C. G. Guy. 1,687,018; Oct. 9.
Neckwear. E. P. Parsons. 1,687,177; Oct. 9.
Negative-impedance device. M. Latour. 1,687,253; Oct. 9.
Nozzle for transport lines, Blower. R. Scott. 1,686,713; Oct. 9.
Odometer. J. H. Hammond, jr., and A. D. Trenor. 1,686,854; Oct. 9.
Oil burner. J. A. D'Ella. 1,687,328; Oct. 9.
Oil burner. G. D. Sundstrand. 1,687,114; Oct. 9.
Oil burner, Recuperator-type. G. F. Naab. 1,687,105; Oct. 9.
Oil-burning apparatus. T. A. Quart. 1,687,349; Oct. 9.
Ore separator, Magnetic. W. L. McAdams. 1,686,917; Oct. 9.
Ores, Froth-flotation concentration of. R. B. Martin. 1,686,529; Oct. 9.
Ornamentation for wash dresses. H. L. Ray. 1,686,988; Oct. 9.
Outboard motor. O. Evinrude. 1,686,803; Oct. 9.
Overturning skip apparatus. A. Allen. 1,687,278; Oct. 9.
Oxalates, Recovering. G. H. Buchanan and G. Barsky. 1,687,480; Oct. 9.
Oxy-compounds of phosphorus, Making. C. G. Miner. 1,686,873; Oct. 9.
Package, Napkin. J. W. King. 1,686,862; Oct. 9.
Pad for permanent waving of hair. B. F. Jancke. 1,687,249; Oct. 9.
Padlock, Permutation. G. F. Mayer. 1,686,632; Oct. 9.
Panel board, Electrical. F. L. Benzon. 1,687,319; Oct. 9.
Panel board, Metering. A. C. McWilliams. 1,686,717; Oct. 9.
Paper, Apparatus for making. L. Kirschbraun. 1,686,818; Oct. 9.
Paper-holding device. S. Stowell. 1,687,404; Oct. 9.
Paper-making machinery. R. E. Heisel. 1,687,447; Oct. 9.
Paper, Water-marked. A. Pleyer. 1,687,140; Oct. 9.
Parachutes, Device for facilitating the spreading of. G. Furmanik. 1,687,064; Oct. 9.
Peeling machine, Vegetable-. C. B. McCathron. 1,687,171; Oct. 9.
Percolator, Gravy. L. G. Laun. 1,687,099; Oct. 9.
Permanent waver. T. M. Reynolds. 1,686,575; Oct. 9.
Photo-engraving plates, Mounting. H. J. Coleman. 1,687,266; Oct. 9.
Photographic color process, Apparatus for. J. G. Capstaff. 1,687,055; Oct. 9.
Photographic film and film base therefor, Nonstatic. P. C. Seel. 1,687,041; Oct. 9.

Photographic film and film base therefor, Antistatic. P. C. Seel. 1,687,042; Oct. 9.
Piano. J. T. Mayer, E. Levis, and H. Schum. 1,687,028; Oct. 9.
Piano, Grand. W. G. Betz. 1,686,726; Oct. 9.
Picture film strip, Motion-. F. W. Lovejoy. 1,687,100; Oct. 9.
Picture film strip, Motion-. A. F. Sulzer. 1,687,044; Oct. 9.
Picture film strip, Motion-. E. C. Van Doorn. 1,687,048; Oct. 9.
Picture screen. J. M. Shay. 1,686,880; Oct. 9.
Pictures, Making composite. R. J. Pomeroy. 1,686,987; Oct. 9.
Piles, Construction of concrete. A. Hiley. 1,686,660; Oct. 9.
Pilot for liquid-fuel-burning apparatus. S. M. Hansen. 1,686,855; Oct. 9.
Pin and manufacture, Dowel. W. S. Hawker. 1,687,207; Oct. 9.
Pipe and tube bender. W. E. and H. E. Holschaw. 1,687,210; Oct. 9.
Pipe closures, Forming. P. Jackson. 1,686,562; Oct. 9.
Pipe-threading machine. W. H. Himes. 1,686,661; Oct. 9.
Piston. H. Caminez. 1,687,265; Oct. 9.
Piston motor, Counterbalanced. E. H. Belden. 1,686,790; Oct. 9.
Piston rings, Making. W. J. Six. 1,686,937; Oct. 9.
Plaster board. A. S. Speer. 1,686,671; Oct. 9.
Plastic material, Apparatus for rounding up lumps of. H. H. Hackstedde. 1,686,853; Oct. 9.
Plastic material forming and smoothing device. W. G. Mansuy. 1,687,344; Oct. 9.
Plate or similar article. H. Rampfel. Des. 76,550; Oct. 9.
Plate or similar article. F. A. Sebring. Des. 76,557; Oct. 9.
Plate or similar article. U. Tomita. Des. 76,566–90; Oct. 9.
Platen, Continuous-feed. H. A. Foothorap. 1,687,332; Oct. 9.
Plow. A. S. Nelson. 1,686,874; Oct. 9.
Plow and shovel, Adjustable. J. T. Davenport. 1,686,961; Oct. 9.
Plow, Power-lift. R. J. Altgelt. 1,686,545; Oct. 9.
Plow, Tractor. J. N. Parker. 1,686,983; Oct. 9.
Plug, Connecting. R. M. Mann. 1,687,167; Oct. 9.
Post: *See*—
Binding post.
Pot: *See*—
Measuring pot.
Power plant. H. F. Schmidt. 1,687,109; Oct. 9.
Power transmission. A. G. and A Ronning. 1,686,532; Oct. 9.
Press: *See*—
Baling press. Stamping press.
Pressing machine, Seam-. A. E. Greene. 1,686,810; Oct. 9.
Pressing machine, Seam-. L. B. Semel. 1,686,933; Oct. 9.
Pressing machine, Shirt-. C. B. Kilby, M. Reinitz, and A. B. Clisson. 1,686,619; Oct. 9.
Pressure meter. C. J. Fechheimer. 1,686,688; Oct. 9.
Printing apparatus, Letter-. E. B. Pyle. 1,686,531; Oct. 9.
Printing device. P. M. Colquhoun. 1,686,800; Oct. 9.
Printing machine, Photographic. M. Metzger. 1,687,379; Oct. 9.
Printing-machine rolls, Side registering mechanism for. E. T. Morris and T. J. Mills. 1,686,530; Oct. 9.
Printing machines, Controlling the travel of the ink ribbon used with rotary. C. F. Green. 1,687,016; Oct. 9.
Printing mechanism for cash registers. E. F. Oberhauser. 1,686,924; Oct. 9.
Printing mechanism for cash registers. C. Tatousek. 1,686,940; Oct. 9.
Propelling means. J. Bolgiano and W. Reilly. 1,687,360; Oct. 9.
Protector, Eye. H. C. Fowler. 1,686,848; Oct. 9.
Pulley. F. J. Hardley. 1,687,442; Oct. 9.
Pump. A. W. Burks. 1,686,549; Oct. 9.
Pump. J. M. McClatchie. 1,687,029; Oct. 9.
Pump, Gear. L. O. Kuhn. 1,686,867; Oct. 9.
Pump, Instrument. R. W. Brown. 1,687,469; Oct. 9.
Pumping apparatus, Gas-lift. M. T. Archer. 1,687,317; Oct. 9.
Pumping apparatus, Well. R. P. Simmons. 1,687,399; Oct. 9.
Punch presses, Tripping mechanism for. J. E. Loshbough. 1,686,622; Oct. 9.
Purification of benzoic acid and its derivatives. A. O. Jaeger. 1,686,913; Oct. 9.
Purifying metals, Method and apparatus for. H. H. Alexander. 1,687,277; Oct. 9.
Purse, Doll. J. Cohen. Des. 76,523; Oct. 9.
Rack: *See*—
Shoe rack. Tire rack.
Racket, Games. C. A. Claremont. 1,687,322; Oct. 9.
Radiator cap, Rack-action. H. S. Gillette. 1,687,482; Oct. 9.
Radiators, Stiffening member for automobile. W. W. Muir. 1,686,626; Oct. 9.
Radio, Dialless. D. D. Bast. 1,687,420; Oct. 9.
Radiolog. G. A. Bishop. 1,686,677; Oct. 9.
Radio loud speaker. J. W. H. Hanley. 1,687,293; Oct. 9.
Radio receiving circuit. S. Loewe. 1,686,621; Oct. 9.
Radio reception instrument. J. C. Leeper. 1,687,371; Oct. 9.
Radio transmitting system. L. de Forest. 1,687,364; Oct. 9.
Rail bonds. C. L. Larson. 1,687,297; Oct. 9.
Rail, Railway. C. H. Sloan. 1,687,400; Oct. 9.
Rail support. G., H. B., and W. T. Wiebler. 1,687,275; Oct. 9.
Railroad crossing. J. C. Bradshaw. 1,687,054; Oct. 9.
Railway crossing. G. W. Wilson. 1,686,541; Oct. 9.
Railway-train control. W. J. Underwood. 1,687,272; Oct. 9.
Rake: *See*—
Cleaning rake.
Rake and swath turner, Side-delivery. P. Randall. 1,687,310; Oct. 9.
Ranges, Fume guard for cooking. J. Juralewicz. 1,686,017; Oct. 9.
Receptacle for use by smokers for tobacco ash and the like. J. J. B. and A. C. Cole. 1,687,362; Oct. 9.
Receptacle, Refrigerator revolving. L. S. and R. Shaner. 1,687,149; Oct. 9.
Receptacle, Vegetable. W. B. Flanagan. Des. 76,535; Oct. 9.
Rectifying and filtering system. F. H. Kroger. 1,686,974; Oct. 9.
Refining of lead bullion and similar operations, Apparatus for use in. G. K. Williams. 1,687,187; Oct. 9.
Refining of lead bullion containing other metals. G. K. Williams. 1,687,188; Oct. 9.
Refrigerating apparatus. W. E. Shew. 1,687,395; Oct. 9.
Refrigerator. C. B. Longstreth. 1,686,568; Oct. 9.
Regulating alternating current. C. E. Stryker. 1,686,939; Oct. 9.
Regulating devices, Weight-. J. S. Abercrombie. 1,686,945; Oct. 9.
Regulator: *See*—
Flow regulator. Voltage regulator.
Thermostatic regulator. Window regulator.
Relay, Electrical protective. L. N. Crichton. 1,686,653; Oct. 9.
Removing car brasses. M. B. Bulla. 1,686,729; Oct. 9.
Removing static. C. W. Woodruff. 1,686,998; Oct. 9.
Resolving emulsions of tar or oil. H. W. Robinson and D. W. Parkes. 1,687,314; Oct. 9.
Respirator. W. H. Wood. 1,686,592; Oct. 9.
Resurfacing solid tires, Method and apparatus for. H. D. Stevens. 1,687,465; Oct. 9.
Retainer, Draft-key. G. F. Couch. 1,686,738; Oct. 9.
Retarding device, Oscillation. J. G. Frayne and F. D. Moran. 1,686,909; Oct. 9.
Rheostat. G. H. Whittingham. 1,687,357; Oct. 9.
Rims, Securing means for demountable. P. A. White. 1,686,778; Oct. 9.
Ring. M. H. Herzog. 1,687,020; Oct. 9.
Roller: *See*—
Land roller.
Roller bit. C. H. M. Bull. 1,686,957; Oct. 9.
Roof flashing. R. J. Stephenson. 1,686,881; Oct. 9.
Roof package and binder therefor. W. H. Cady. 1,686,513; Oct. 9.
Rope clamp. W. H. Stewart. 1,686,581; Oct. 9.
Rotor and forming the same, Turbine. W. E. Richard. 1,686,840; Oct. 9.
Safety appliance for inflammable material containers. R. J. Monnett. 1,686,918; Oct. 9.
Safety can. F. S. Blanchard. 1,687,120; Oct. 9.
Safety device for gas-firing systems. E. O. Engels. 1,686,965; Oct. 9.
Safety device for liquid-measuring apparatus. H. Wydler. 1,687,417; Oct. 9.
Safety device for machine control. H. Ruegg. 1,687,107; Oct. 9.
Safety device for traction operation. A. Couwenboven. 1,687,084; Oct. 9.
Safety device for traction operation. P. Ferrari. 1,687,088; Oct. 9.
Safety switch, Electric. E. Nazzareno. 1,686,707; Oct. 9.
Salt shaker and the like, Self-cleaning. J. Cayot. 1,687,155; Oct. 9.
Salts and by-products, Producing potassium. R. D. Pike and R. Cummings. 1,686,835; Oct. 9.
Sand from metal castings, Device for removing. D. C. Mulvihill. 1,686,629; Oct. 9.
Sandal, Sanitary. F. O. Lawson. 1,686,975; Oct. 9.
Sash construction. C. G. Nelson. 1,687,305; Oct. 9.
Sash for holding glass. D. J. Murnane. 1,686,922–3; Oct. 9.
Sash for holding glass. D. J. and D. J. Murnane, jr. 1,686,920–1; Oct. 9.
Saw, Circular. O. H. Hildreth. 1,687,448; Oct. 9.
Sawmill edgers, Attachment for. L. R. Foreman. 1,686,966; Oct. 9.
Sawing wire. R. D. Green. 1,687,089; Oct. 9.
Scale, Weighing. S. N. Hurt. 1,686,750; Oct. 9.
Scale, Weighing. F. A. Schmitz. 1,686,770; Oct. 9.
Scale, Weighing. L. C. Wetzel. 1,686,779; Oct. 9.
Scalp comb. O. O. Olson. 1,686,981; Oct. 9.
Scissors for barbers, Power-driven. C. E. Kelliher. 1,687,212; Oct. 9.
Score board, Radio football. G. D. Nelson. 1,687,033; Oct. 9.

Scouring device. R. B. Kingman. 1,686,863; Oct. 9.
Scouring-soap cake. R. B. Kingman. 1,686,864; Oct. 9.
Scraper. C. Johnson. 1,686,816; Oct. 9.
Screen: *See*—
Picture screen.
Screen cleaner. L. O. Corkran. 1,687,428; Oct. 9.
Screw driver. B. F. Canode. 1,686,681; Oct. 9.
Seal for waste pipe, Water. E. W. Rich. 1,686,926; Oct. 9.
Searchlight shutter. F. R. House. 1,686,525; Oct. 9.
Semaphoric indicator. W. P. Dalrymple. 1,686,735; Oct. 9.
Separating the alloys of silver with other precious or base metals, Electrolytically. R. Carl. 1,687,056; Oct. 9.
Separator: *See*—
Centrifugal separator. Ore separator.
Severing and assembling machine, Buckle-strap. E. E. Clements. 1,687,479; Oct. 9.
Sewing and edging machine. K. Maier. 1,687,377; Oct. 9.
Shade for automobile headlights. E. Molnar. 1,687,256; Oct. 9.
Shank for turn shoes. J. R. Bindner. 1,686,791; Oct. 9.
Sheet-metal wheel. W. Barber. 1,686,509; Oct. 9.
Shield for windows, Weather. E. O. Schaffert. 1,687,392; Oct. 9.
Shift bar for visible indexes. J. Schade. 1,687,108; Oct. 9.
Shims, Making. J. C. Yordon. 1,686,999; Oct. 9.
Shoe. P. Cox and F. McPartland. 1,687,267; Oct. 9.
Shoe fastening. R. C. Legat. 1,687,372; Oct. 9.
Shoe machine. R. H. Lawson. 1,686,821; Oct. 9.
Shoe machinery. G. G. Perkins. 1,687,384; Oct. 9.
Shoe rack. C. E. Shively. 1,687,397; Oct. 9.
Shoe-repair machine. G. Vitale. 1,687,152; Oct. 9.
Shovel. J. P. Walter. 1,686,888; Oct. 9.
Shovel handle. L. E. Webster. 1,687,073; Oct. 9.
Shovels, Tooth for excavating. W. T. Hulsizer. 1,687,022; Oct. 9.
Shuttle, Automatically-threading loom. W. I. Stimpson. 1,687,467; Oct. 9.
Shuttle guard. A. G. Hofammann. 1,686,662; Oct. 9.
Sign. C. E. Strickland. 1,687,043; Oct. 9.
Sign, Changeable advertising. L. Thompson. 1,686,994; Oct. 9.
Sign, Illuminated display. F. B. Rae. 1,687,106; Oct. 9.
Sign, Variegated and changeable color. P. Balnojan. 1,686,615; Oct. 9.
Signboard, Combined display and advertising. J. B. Stockham and J. B. Hickman. Des. 76,562; Oct. 9.
Signal: *See*—
Automobile signal. Traffic signal.
Direction signal.
Signal means for elevators, etc. W. H. Grover, C. E. Merritt, and W. S. Pooley. 1,686,603; Oct. 9.
Signal system, Elevator. M. J. Flanegan. 1,686,606; Oct. 9.
Signal transmitter, Multispeed variable-. N. H. Suren. 1,687,045; Oct. 9.
Signaling apparatus for vehicles. F. A. E. Goodroad. 1,686,691; Oct. 9.
Signaling apparatus, Railway. R. M. Gilson. 1,687,124; Oct. 9.
Signaling apparatus, Railway. A. A. Skene. 1,687,111; Oct. 9.
Signaling device for cross-feed mechanisms. H. A. Silven. 1,687,398; Oct. 9.
Signaling, Electric. H. J. J. M., de R. de Bellescize. 1,687,063; Oct. 9.
Signaling system. R. A. Heising. 1,687,244; Oct. 9.
Signaling system, Composite. H. W. Drake. 1,687,432; Oct. 9.
Silicate and making same, Base exchange. E. Nordell. 1,687,036; Oct. 9.
Skate scabbard. H. H. Kaskey. 1,686,667; Oct. 9.
Sled. J. A. Glacken. 1,686,745; Oct. 9.
Slicing machine. C. F. M. van Berkel. 1,687,072; Oct. 9.
Slip indicator. R. T. Pierce. 1,686,638; Oct. 9.
Smelting apparatus. C. E. Glessner. 1,686,912; Oct. 9.
Smoker's stand. J. H. Bradnack. Des. 76,518; Oct. 9.
Snowplow. V. P. Marran. 1,687,169; Oct. 9.
Socket shell. H. Hubbell. 1,686,813; Oct. 9.
Soldering cable-bonding devices, Method of and apparatus for. A. Z. Mample. 1,687,378; Oct. 9.
Soldering iron, Torch. J. Gysels. 1,686,747; Oct. 9.
Sole and heel, Combined shoe. W. B. Hopwood. Des. 76,541; Oct. 9.
Sole for boots and shoes. C. W. Frey. Des. 76,528; Oct. 9.
Sole, Nonslip. W. B. Hopwood. 1,687,294; Oct. 9.
Sound-locating apparatus. H. B. Ely. 1,686,904; Oct. 9.
Sound-producing instrument. J. C. Deagan. 1,686,602; Oct. 9.
Speaking panel for jails or the like. B. W. Brockett. 1,687,280; Oct. 9.
Spectacle frame. J. Gasparl. Des. 76,529; Oct. 9.
Spectacle temple. G. H. Chase and O. H. Flodin. 1,686,797; Oct. 9.
Speed control, Oil-well band-wheel. D. G. Taylor. 1,686,883; Oct. 9.
Speed-controlling device, Automatic. D. E. Lewellen. 1,687,339; Oct. 9.
Speed-transmission mechanism, Variable-. A. A. Wiedmaier. 1,687,075; Oct. 9.
Speedometer construction. A. H. Joseph. 1,687,251; Oct. 9.
Spotlight, Dirigible. B. F. Miller. 1,687,173; Oct. 9.
Spotlight for automobiles, Dirigible. W. V. Van Etten. 1,686,996; Oct. 9.
Spout for containers, Pouring. C. H. Rollason. 1,687,316; Oct. 9.
Spraying apparatus. A. M. Dow. 1,687,085; Oct. 9.
Spraying apparatus, Sugar-. J. R. Peterson. 1,687,178; Oct. 9.
Spreader, Check-fold. P. A. Getz. 1,687,438; Oct. 9.
Spring plank. B. W. Kadel. 1,686,564; Oct. 9.
Spring shackle. L. P. Christman. 1,687,057; Oct. 9.
Spring suspension for vehicles. H. W. Hyde. 1,686,561; Oct. 9.
Sprocket, Automatic compensating. F. C. Thompson. 1,686,672; Oct. 9.
Stabilizer for rotatable gear-driven shafts, Angular velocity. A. J. Holman. 1,686,857; Oct. 9.
Stamping press. A. A. Byerlein. 1,686,844; Oct. 9.
Stand: *See*—
Display stand.
Starter, Motor. E. W. Seeger. 1,686,772; Oct. 9.
Starting gate. P. McGinnis. 1,686,832; Oct. 9.
Steel, Welding high-carbon. J. H. Deppeler. 1,686,603; Oct. 9.
Steering-gear-actuating members having spiral grooves, Making. D. E. Ross. 1,687,258; Oct. 9.
Steering gears, Machine for making helically-grooved actuating members for. D. E. Ross. 1,687,260; Oct. 9.
Steering gears, Worm-gear adjustment for motor-vehicle. H. Marles. 1,686,704; Oct. 9.
Stenciling, Method of and apparatus for. R. C. Beck. 1,687,080; Oct. 9.
Stenogauge. R. G. Datson. 1,687,429; Oct. 9.
Sterilizer, Bulb. J. H. Rogers. 1,686,928; Oct. 9.
Stool, chair, and table, Combination. F. C. Hall. 1,687,128; Oct. 9.
Storage battery. A. P. Wood. 1,687,416; Oct. 9.
Storage system for aircraft, Gas-. C. S. Hall. 1,687,204; Oct. 9.
Storage tank, Pressure-resistance. G. W. Russell. 1,686,931; Oct. 9.
Stove frame, Folding portable. W. C. Lindemann and A. W. Benson. 1,686,620; Oct. 9.
Stove, Heating. E. F. Diekmann. 1,687,430; Oct. 9.
Strainer, Oil. A. E. Grant. 1,687,292; Oct. 9.
Supply system, Liquid-. C. H. Braselton. 1,686,891; Oct. 9.
Supply tank, Abrasive. L. D. Pelk. 1,686,877; Oct. 9.
Support, Foot. G. Krause. 1,687,070; Oct. 9.
Support for electric resistance elements. E. R. Case. 1,686,796; Oct. 9.
Support for electrical apparatus. L. Larsen. 1,686,674; Oct. 9.
Support for inkstands and the like. W. H. Gibson. Des. 76,531; Oct. 9.
Support, Garment. U. G. Mason. 1,686,830; Oct. 9.
Supporting means for golf bags. E. A. Sperry. 1,686,774; Oct. 9.
Surfacing apparatus. H. R. Stratford. 1,686,938; Oct. 9.
Surfacing plate glass, Method and apparatus for. J. H. Fox. 1,686,742; Oct. 9.
Suspender-end loop. J. R. La Vigne. 1,687,370; Oct. 9.
Suspensory. A. Lewis. 1,686,869; Oct. 9.
Suspensory. A. Tritch. 1,686,943; Oct. 9.
Swing, Playground. W. O. T. Watkins. 1,687,408; Oct. 9.
Switch: *See*—
Electric switch. Safety switch.
Switch box. G. R. Hebden. 1,686,969; Oct. 9.
Switch box, Electric. H. E. Leppert. 1,687,165; Oct. 9.
Switch mechanism. J. B. MacNeill, A. H. Bakken, and C. A. Tucker. 1,686,706; Oct. 9.
Switch-operating means. A. M. Melahn. 1,686,633; Oct. 9.
Switch-operating mechanism. C. Aalborg. 1,686,721; Oct. 9.
Switching mechanism. W. A. Daly and E. L. Dunn. 1,686,683; Oct. 9.
Synthesis of ammonia, Apparatus for the. G. Claude. 1,686,799; Oct. 9.
Syringe. G. N. Hein. 1,687,091; Oct. 9.
Syringe, Hypodermic. H. S. Cook. 1,687,324; Oct. 9.
Table: *See*—
Treatment table.
Table set. J. G. Theobald. Des. 76,564-5; Oct. 9.
Tag, Laundry-marking. E. J. Carroll and G. W. Johnson. 1,687,361; Oct. 9.
Tank: *See*—
Storage tank. Supply tank.
Tape-condenser clearer roll. H. J. Rogers and F. H. Boyle. 1,687,145; Oct. 9.
Tape, Measuring. C. H. M. Bull. 1,686,956; Oct. 9.
Teeth upon bridgework, Attachment for artificial. A. D. Mizzy. 1,686,625; Oct. 9.
Telegraph cipher system. G. S. Vernam. 1,686,585; Oct. 9.
Telephone receiver. W. C. Jones. 1,687,211; Oct. 9.
Telephone system. T. F. Crocker. 1,687,325; Oct. 9.
Telephone system, Automatic. A. J. Ray. 1,686,838; Oct. 9.
Telephone system, Automatic. N. H. Saunders. 1,686,879; Oct. 9.
Telephony or keying arrangement. M. Osnos. 1,686,982; Oct. 9.
Tensioning means for shuttles, Thread-. L. A. Cadoret. 1,687,320; Oct. 9.
Tent. F. R. Barbour. 1,686,507; Oct. 9.

Terminal protector for storage batteries. J. A. Johnson. 1,686,817; Oct. 9.
Testing magnetizable objects. E. S. Imes. 1,686,815; Oct. 9.
Testing magnetizable objects, Apparatus for. C. W. Burrows. 1,686,679; Oct. 9.
Testing magnetizable objects, Method of and apparatus for. M. E. Berlowitz. 1,686,676; Oct. 9.
Testing vision. J. Z. A. Deninson. 1,686,962; Oct. 9.
Tetra-nitro-dianthrone, Making. B. Stein. 1,686,992; Oct. 9.
Textile fabric. J. H. Bunting. Des. 76,521; Oct. 9.
Textile fabric and producing the same. E. M. Loveman. 1,686,630; Oct. 9.
Textile materials, Process and apparatus for conditioning. A. W. Thompson. 1,687,184; Oct. 9.
Thermostat. W. J. Smith. 1,687,230; Oct. 9.
Thermostatic control system. H. J. Sauvage. 1,686,766; Oct. 9.
Thermostatic regulator. A. J. Mottlau. 1,686,634; Oct. 9.
Thrasher, Combination harvester. W. F. MacGregor. 1,686,828; Oct. 9.
Thread-parter-operating mechanism, Shuttle-feeler. J. R. Reece. 1,687,464; Oct. 9.
Tile, Building. J. G. MacVeigh and P. B. Collins. 1,687,342; Oct. 9.
Tile, Enameled sheet-metal. W. Thomas. 1,687,355; Oct. 9.
Tiled wall or the like. G. D. Haines. 1,686,812; Oct. 9.
Tire-building machine. P. W. Lehman. 1,687,373; Oct. 9.
Tire casings, Making multiple-bead. T. Midgley. 1,687,302; Oct. 9.
Tire, Pneumatic. Z. Littman. 1,686,977; Oct. 9.
Tire rack. C. M. Fannin. 1,686,741; Oct. 9.
Tire, Resilient vehicle. E. H. Fitch. 1,687,330; Oct. 9.
Tire rim. I. M. Caldwell. 1,687,426; Oct. 9.
Tire, Spring. G. Hatvani. 1,687,206; Oct. 9.
Tires, Making clincher. T. Midgley. 1,687,301; Oct. 9.
Tool, Gaining. M. A. Stafford. 1,687,403; Oct. 9.
Tool handle. M. P. Jackline. 1,687,335; Oct. 9.
Tool, Marking and stamping. A. Burkensiein. 1,686,512; Oct. 9.
Tool, Stone-dressing. E. T. Holm. 1,687,093; Oct. 9.
Tool, Tire. W. S. Pierce, jr. 1,686,640; Oct. 9.
Top, Educational. C. S. Cross. 1,687,239; Oct. 9.
Torch, Construction. L. W. Close. 1,686,651; Oct. 9.
Torch-operating mechanism. J. O. Bishop. 1,687,001; Oct. 9.
Tower construction. H. O. Hill. 1,687,449; Oct. 9.
Toy, Automatic. W. J. Roche. 1,687,315; Oct. 9.
Track and flange lubricator. M. L. Tipton. 1,687,185; Oct. 9.
Tractor trailer. C. H. Land. 1,686,698; Oct. 9.
Traffic-controlling apparatus, Railway-. R. M. Gilson. 1,687,125; Oct. 9.
Traffic signal. R. French. 1,686,850; Oct. 9.
Traffic signal. B. C. Smith and T. H. Chandler. 1,687,183; Oct. 9.
Translating circuit, Frequency-. E. Peterson. 1,687,225; Oct. 9.
Translating device. J. B. Speed. 1,687,231; Oct. 9.
Translating system. H. S. Black. 1,686,792; Oct. 9.
Transmission for vehicle wheels, Resilient. E. A. Corbin, jr. 1,687,237; Oct. 9.
Transmission-operating device. P. W. Neff. 1,687,139; Oct. 9.
Transparent sheet and making the same, Reenforced. M. T. Brush. 1,686,649; Oct. 9.
Tread material and making the same. J. E. Grosjean. 1,687,441; Oct. 9.
Treating and wetting out fibrous material. R. H. Pott. 1,686,836; Oct. 9.
Treating fabrics. T. A. Bryson and J. J. McKeon. 1,687,122; Oct. 9.
Treating hydrocarbon oils. C. P. Dubbs. 1,686,654; Oct. 9.
Treating plants. W. Eggert, jr. 1,686,964; Oct. 9.
Treating the feet, Apparatus for. L. J. Karpf. 1,687,368; Oct. 9.
Treating the internal and external surfaces of elongated bodies. N. Meurer. 1,687,102; Oct. 9.
Treatment of evaporator water. G. W. Smith. 1,686,715; Oct. 9.
Treatment of peat. F. Ginsbach. 1,686,807; Oct. 9.
Treatment of sewage in sanitary closets. E. L. Jackson. 1,687,336; Oct. 9.
Treatment table. J. V. McManis. 1,686,979; Oct. 9.
Trimming machine, Sole and heel. J. H. Georgelis. 1,687,437; Oct. 9.
Trimming rubber strips, Device for. W. C. Stevens. 1,687,466; Oct. 9.
Truck, Guide. H. A. Houston. 1,686,664; Oct. 9.
Trunk and luggage carrier, Automobile. A. L. Shidler and H. H. Mootz. 1,687,396; Oct. 9.
Trunk and luggage carrier, Combination. R. M. Cormican. 1,687,427; Oct. 9.
Trunk, suitcase, and the like, Collapsible. E. N. Kennedy. 1,687,213; Oct. 9.
Tube: *See*—
Vacuum tube.
Tube closure. R. W. Fox. 1,686,520; Oct. 9.
Tubes, Method and apparatus for manufacturing. A. Laughlin, jr. 1,686,700; Oct. 9.
Tubes, Method and apparatus for the manufacture of. A. Laughlin, jr. 1,686,701; Oct. 9.
Turbine construction, Steam-. A. Meyer and K. Frey. 1,687,103; Oct. 9.
Twist meter. J. H. Smith. 1,686,714; Oct. 9.
Two-cycle motor, Sleeve-valve. E. H. Belden. 1,686,789; Oct. 9.
Typewriter. F. W. Müller. 1,686,627; Oct. 9.
Typewriting machine. A. G. F. Kurowski. 1,687,026; Oct. 9.
Typewriting machines, Paper finger for. F. W. Hillard. 1,687,208; Oct. 9.
Typographical machines, Safety stop means for. W. Peterson. 1,687,385; Oct. 9.
Unit heater. C. M. Garland. 1,687,240; Oct. 9.
Universal joint. H. C. Heon. 1,686,695; Oct. 9.
Upholstery machine. H. M. Scott. 1,687,393; Oct. 9.
Urea-formaldehyde condensation products, Manufacturing. K. Ripper. 1,687,312; Oct. 9.
Urn, Coffee. T. H. Jones. 1,687,095; Oct. 9.
Vacuum feed system. G. C. Nelson. 1,687,175; Oct. 9.
Vacuum tube, Equipotential cathode. R. S. Ohl. 1,686,570; Oct. 9.
Valve. S. J. Nordstrom. Re17,101; Oct. 9.
Valve, By-pass. E. Muller. 1,687,032; Oct. 9.
Valve cap and dust cap, Combined. M. C. Schweinert. 1,686,642; Oct. 9.
Valve cap, Deflating. R. H. Henemier. 1,686,659; Oct. 9.
Valve, Fluid. A. M. Frauenheim. 1,686,849; Oct. 9.
Valve, Flush-tank. R. M. Pierson. 1,686,985; Oct. 9.
Valve for explosive engines, Rotary. O. L. and C. M. Dugger. 1,687,473; Oct. 9.
Valve for operating dump cars, Direction. E. R. Viberg and A. L. Linderblad. 1,687,406; Oct. 9.
Valve for rock drills. G. M. Nell. 1,687,381; Oct. 9.
Valve, Gas safety. F. E. Schoolfield. 1,687,351; Oct. 9.
Valve mechanism, Flush-. M. Schiller. 1,686,932; Oct. 9.
Valve, Pump. G. C. Deakins. 1,687,008; Oct. 9.
Valve-resurfacing machine. F. E. Longley. 1,687,374; Oct. 9.
Valve, Spring-pressure relief. I. I. Nelson and C. Smith. 1,686,875; Oct. 9.
Valve structure, Forced-draft-pan-. O. G. Werner. 1,686,777; Oct. 9.
Valve, Temperature and pressure relief. F. M. Holmes. 1,687,209; Oct. 9.
Vanity case. W. G. Kendall. 1,686,973; Oct. 9.
Vanity case and powder puff, Combination. J. Hoellrigl. 1,687,451; Oct. 9.
Vapor, Apparatus for producing oil. A. T. Porter. 1,687,226; Oct. 9.
Vaporizer. E. R. Godward. 1,686,609; Oct. 9.
Vaporizer. E. R. Godward. 1,686,611; Oct. 9.
Vault, Safety-deposit. C. N. Dilatush. 1,687,431; Oct. 9.
Vehicle, Aquatic. J. F. Caldwell. 1,687,194; Oct. 9.
Vehicle, Automarine. A. E. Cook. 1,686,517; Oct. 9.
Vehicle bodies, Making motor-. H. J. Coyne. 1,686,555; Oct. 9.
Vehicle body. P. E. Breneman. 1,687,264; Oct. 9.
Vehicle brake. R. V. Lipe. 1,686,870; Oct. 9.
Vehicle, pedal-propelled. F. H. Headley. 1,687,334; Oct. 9.
Vehicles, Bottom delivery body for. B. V. Tucker. 1,686,776; Oct. 9.
Vehicles, Suspension without axles for motor. E. M. Ballot. 1,687,191; Oct. 9.
Vending machine, Coin-controlled. H. K. Lorentzen. 1,686,978; Oct. 9.
Vent, Speech. H. J. Thielker. 1,686,942; Oct. 9.
Ventilating apparatus. F. C. Duerk. 1,687,156; Oct. 9.
Ventilator for farm buildings. C. A. Hosier. 1,686,858; Oct. 9.
Vibrator or agitator. G. B. Pickop. 1,686,984; Oct. 9.
Violin bow. C. B. Gray. 1,686,554; Oct. 9.
Voltage regulator. E. W. Engle and E. W. Lincoln. 1,686,905; Oct. 9.
Voltage regulator, Filament-. E. W. Engle and H. L. Olesen. 1,687,474; Oct. 9.
Voltmeter. C. L. G. Fortescue. 1,686,689; Oct. 9.
Voltmeter, Thermionic peak. D. M. Terry. 1,687,234; Oct. 9.
Volume control and switch for radiocircuits. D. R. Lovejoy. 1,687,133; Oct. 9.
Wall bracket. P. W. Hughes. 1,686,972; Oct. 9.
Wall hook. C. J. Witt. 1,687,413; Oct. 9.
Washer: *See*—
Bottle washer. Clothes washer.
Washer and drier, Dish. W. H. Lancelot and J. A. Starrak. 1,687,458; Oct. 9.
Washing machine. B. E. Getz. 1,686,657; Oct. 9.
Washing-machine assembly. J. Tedell. 1,686,538; Oct. 9.
Washing machines, Centering drive for. A. S. Wise. 1,686,718; Oct. 9.
Watchcase. A. P. Conant. Des. 76,524; Oct. 9.
Watch, Wrist. G. P. Dike. 1,687,365; Oct. 9.
Water heater. A. H. Hoadley. 1,686,970; Oct. 9.
Water heater, Gas. V. Mauck. 1,687,101; Oct. 9.
Watthour meter. A. R. Rutter. 1,686,641; Oct. 9.
Weighing goods in a hanging position, Arrangement for. L. G. Wahl. 1,686,586; Oct. 9.
Welt and making the same. H. Lyon. 1,687,459; Oct. 9.
Welting. H. Lyon. 1,687,461; Oct. 9.
Welting and making, Beaded. H. Lyon. 1,687,460; Oct. 9.
Welting, Beaded. H. Lyon. 1,687,462; Oct. 9.

Wheel: *See*—
Sheet-metal wheel.
Wheel for knitting machines, Pattern. W. C. Austin. 1,687,279; Oct. 9.
Whistle, Pop-bottle. I. H. Erb. 1,687,086; Oct. 9.
Wind motor. T. B. Prease. 1,687,181; Oct. 9.
Window. D. R. Richards. 1,686,927; Oct. 9.
Window construction. B. J. Goldsmith and E. Koeb. 1,687,015; Oct. 9.
Window, Double-sliding reversible. R. B. Wilson. 1,686,589; Oct. 9.
Window for closed cars, Removable. G. E. Mosher. 1,686,705; Oct. 9.
Window guard and draft deflector, Combination. S. M. Girlich. 1,687,439; Oct. 9.
Window regulator. B. S. Floraday and H. B. Haskins. 1,687,481; Oct. 9.
Window-regulator mechanism. W. F. Costello. 1,687,238; Oct. 9.
Window, Reversible. A. A. Ward. 1,687,116; Oct. 9.
Window, Weatherstripped metal. A. M. Lane. 1,686,668; Oct. 9.
Windshield for vehicles. E. E. Hills. 1,687,307; Oct. 9.
Wiper, Windshield. H. R. Van Deventer. 1,686,673; Oct. 9.
Wire-line clamp. T. W. Bell and T. C. Rogers. 1,686,547; Oct. 9.
Wireless communication systems, Antiparasite receiver for. H. J. J. M. de R. de Bellescize. 1,687,061; Oct. 9.
Wire stretcher. J. W. Osborne and C. C. Freitag. 1,686,762; Oct. 9.
Woodworking machine. F. L. Lane. 1,686,915; Oct. 9.
Work-holding head for lathes. C. A. Richard. 1,687,143; Oct. 9.
Worktable for pneumatic-tire repairing. E. M. Godfrey, jr. 1,686,553; Oct. 9.
Wrapping machine, Pipe-. L. S. Rosener. 1,686,929; Oct. 9.
Wringer. H. F. Snyder. 1,687,401; Oct. 9.
Wringer mounting. W. G. Peters. 1,686,709; Oct. 9.
Wringer support and gear housing, Swinging. D. M. Wenger. 1,687,411; Oct. 9.
Yarn-conditioning machine. A. Blanchard. 1,686,548; Oct. 9.
Yarn-twisting device. W. Spink. 1,687,261; Oct. 9.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 9, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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285— 31: 1,686,881
87: 1,687,445
292— 74: 1,686,805
113: 1,687,083
128: 1,686,886
139: 1,687,248
202: 1,687,263
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293— 55: 1,686,535
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294— 57: 1,687,073
58: 1,687,190
296— 28: 1,686,740
1,686,897
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44: 1,686,705
48: 1,687,016
137: 1,686,555
1,686,587
297— 15: 1,686,634
298— 31: 1,686,776
299— 84: 1,687,085
117: 1,686,885
300— 11: 1,687,250
301— 17: 1,686,778
31: 1,687,426
63: 1,686,509
302— 25: 1,686,713
37: 1,686,793
1,687,435
303— 19: 1,687,107
48: 1,687,406
306— 4: 1,686,934
25: 1,687,335
308— 11: 1,686,993
14: 1,686,672
41: 1,687,221
122: 1,686,872
189: 1,686,732
242: 1,686,951
312— 34: 1,687,443
43: 1,687,444
68: 1,686,949
83: 1,686,978
108: 1,686,515

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aaron, Edward, Inc., Kansas City, Mo. Dressed poultry. 248,352; Oct. 16. Class 46.

Aarons, A., Co., Inc., New Orleans, La. Liniment, medical preparations for animals and poultry, etc. 248,092; Oct. 16; Serial No. 265,309; published Aug. 7, 1928. Class 6.

Acme Products Limited, Winnipeg, Canada, and Detroit, Mich. Medicines. 248,117; Oct. 16; Serial No. 266,637; published July 24, 1928. Class 6.

Adolphus, Kenneth B. H., Chicago, Ill. Incense. 248,239; Oct. 16; Serial No. 265,132; published July 24, 1928. Class 6.

Aerovane Utilities Corporation, Wilmington, Del., and New York, N. Y. Fixed direction markers. 248,160; Oct. 16; Serial No. 267,400; published July 24, 1928. Class 50.

Akron Tyrwelder Company, The, Akron, Ohio. Tire-vulcanizing machine. 248,298; Oct. 16; Serial No. 267,221; published Aug. 7, 1928. Class 23.

Alabama Brick & Tile Co., Decatur, Ala. Building brick. 248,340; Oct. 16; Serial No. 266,905; published July 31, 1928. Class 12.

Alkura Dispensary, (Unincorporated). (See Thompson, Willard L.)

Alling, Wilbur M., doing business as W. M. Alling, New York, N. Y. Hosiery. 248,091; Oct. 16; Serial No. 265,310; published July 17, 1928. Class 39.

American Car and Foundry Motors Company, New York, N. Y. Motor vehicles. 248,145; Oct. 16; Serial No. 264,003; published July 10, 1928. Class 19.

American Safety Device Co., New York, N. Y. Scaffolding and parts thereof. 248,305; Oct. 16. Class 50.

American Solvents & Chemical Corporation, New York, N. Y. Ethyl-alcoholic liquors. 248,151; Oct. 16; Serial No. 263,739; published Aug. 7, 1928. Class 49.

American Steel & Wire Company of New Jersey, The, Worcester, Mass., to The American Steel and Wire Company of New Jersey, Cleveland, Ohio. Wire rope and cables. 71,585; renewed Dec. 1, 1928.

American Textile, Inc., Bay City, Mich. Underwear and hosiery. 248,033; Oct. 16; Serial No. 266,011; published July 10, 1928. Class 39.

Andersen Flume Gate Company, Redlands, Calif. Flume gates. 248,165; Oct. 16; Serial No. 267,332; published Aug. 7, 1928. Class 13.

Anderson Drug Company, Fort Valley, Ga. Alterative tonic. 248,087; Oct. 16; Serial No. 265,355; published Aug. 7, 1928. Class 6.

Anderson, Edwin H., New York, N. Y. Sulphur. 248,074; Oct. 16; Serial No. 266,779; published July 24, 1928. Class 6.

Anderson, Edwin H., New York, N. Y. Fertilizers. 248,075; Oct. 16; Serial No. 266,778; published Aug. 7, 1928. Class 10.

Anderson, Edwin H., New York, N. Y. Sulphur. 248,076; Oct. 16; Serial No. 266,777; published July 24, 1928. Class 6.

Angus, Jordan & Exner Limited, London, England. Tanned sheep and goat skins. 248,027; Oct. 16; Serial No. 266,073; published July 10, 1928. Class 1.

Animal Trap Company of America, Lititz, Pa. Animal traps. 248,227; Oct. 16; Serial No. 260,041; published July 10, 1928. Class 50.

Archer Rubber Company, Milford, Mass. Rubberized swimming collars. 72,403; renewed Jan. 26, 1929.

Archer Rubber Company, Milford, Mass. Treated textile fabrics and textile fabrics, etc. 248,056; Oct. 16; Serial No. 262,546; published July 24, 1928. Class 50.

Argray Drug Co. (See Haag, Herbert L.)

Ashby, William R. C., Woldingham, England. Toilet cream. 248,182; Oct. 16; Serial No. 267,885; published July 31, 1928. Class 6.

Associated Laboratories, Inc., doing business as Seedol Pharmaceutical Laboratories, New York, N. Y. Laxative. 248,284; Oct. 16; Serial No. 257,503; published Jan. 10, 1928. Class 6.

Athol Manufacturing Company, Athol, Mass. Artificial leather. 248,071; Oct. 16; Serial No. 266,847; published July 24, 1928. Class 50.

Atlantic Packing Company. (See Consolidated Rendering Company.)

Aubry, Justin E., doing business as Aubry's Bakery, Pittsfield, Mass. Bread, cake, and pastry. 248,038; Oct. 16; Serial No. 265,939; published Aug. 7, 1928. Class 46.

Auerbach Company, Salt Lake City, Utah. Cotton. 248,255; Oct. 16; Serial No. 264,550; published July 17, 1928. Class 1.

Automatic Equipment Co. (See Burnoyl Heating Corporation.)

Automotive Standards, Inc., Newark, N. J. Electric automobiles. 248,200; Oct. 16; Serial No. 268,338; published Aug. 7, 1928. Class 19.

Baker, James S. S. B., London, England. Inks. 248,023; Oct. 16; Serial No. 266,185; published Aug. 7, 1928. Class 11.

Balfour, Williamson & Co., New York, N. Y. Green coffee. 248,291; Oct. 16; Serial No. 256,277; published Aug. 7, 1928. Class 46.

Beaver Produce Company. (See Shekter, Jacob J.)

Belley, Isidore, doing business as I. Belley & Co., New York, N. Y. Underwear. 248,043; Oct. 16; Serial No. 265,826; published July 10, 1928. Class 39.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Axle grease. 71,424; renewed Nov. 24, 1928.

Benedict Company. (See Kovach, Benedict.)

Bercy's Laboratories. (See Fleron, M. M., & Son, Inc.)

Berger, Harry, doing business as H. Berger & Co., New York, N. Y. Artificial furs. 248,073; Oct. 16; Serial No. 266,782; published July 10, 1928. Class 1.

Berger Manufacturing Company, The, Canton, Ohio. Expanded-metal lath. 248,132; Oct. 16; Serial No. 265,612; published July 24, 1928. Class 12.

Berté, Jean, Inc., New York, N. Y. Multicolor prints and printed matter. 248,350; Oct. 16. Class 38.

Biefeld, Otto, Co., Watertown, Wis. Snowplow. 248,356; Oct. 16. Class 23.

Big Stone Canning Co., Ortonville, Minn. Canned vegetables. 248,380; Oct. 16. Class 46.

Bio-Labro Products, Inc., New York, N. Y. Preparation for neutralizing the odor of nicotine and overcoming tobacco-breath odors and aftertaste of smoking. 248,250; Oct. 16; Serial No. 264,750; published Aug. 7, 1928. Class 6.

Bio-Labro Products, Inc., New York, N. Y. Preparation to allay irritation of the throat. 248,251; Oct. 16; Serial No. 264,749; published Aug. 7, 1928. Class 6.

Blair, J. C., Company, Huntingdon, Pa. Paper. 72,537; renewed Feb. 2, 1929.

Bliss Syrup Refining Co., to Bliss Syrup & Preserving Company, Kansas City, Mo., successor. Certain syrups. 71,573; renewed Dec. 1, 1928.

Blunt, Miles, doing business as Dresvelope Company of America, assignor to Dresvelope Corporation, San Francisco, Calif. Paper garment protector and container. 248,053; Oct. 16; Serial No. 261,482; published Aug. 7, 1928. Class 2.

Bockhold, Anthony J., doing business as M. O. Chemical Co., Oregon City, Oreg. Cough drops. 248,297; Oct. 16; Serial No. 267,231; published July 24, 1928. Class 6.

Bon Soir Bug Company. (See Garland, Augustus H.)

Bowers, Edward C., et al., receivers. (See Wright Wire Company, assignor.)

Brand, Bernard, doing business as J. Brand & Son, New York, N. Y. Artificial leather, waterproof coated fabric and cloth. 248,064; Oct. 16; Serial No. 263,257; published July 10, 1928. Class 50.

British Drug Houses, Limited, The, London, England. Medicated malt product. 248,338; Oct. 16; Serial No. 266,971; published July 24, 1928. Class 6.

Brown, George C., & Company, Memphis, Tenn. Kennel bedding and sawdust. 248,243; Oct. 16; Serial No. 265,032; published July 10, 1928. Class 1.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Cigarettes. 248,054; Oct. 16; Serial No. 262,287; published Aug. 7, 1928. Class 17.

Bucher, Charles A., Pittsburgh, Pa. Face powders and rouges. 248,170; Oct. 16; Serial No. 264,221; published July 17, 1928. Class 6.

Burke, Edward & John, Limited, Dublin, Ireland, and New York, N. Y., to Edward & John Burke, Limited, Dublin, Ireland. Stout and ale. 71,806; renewed Dec. 15, 1928.

Burke, Edward & John, Limited, Dublin, Ireland, and New York, N. Y., to Edward & John Burke, Limited, Dublin, Ireland. Whisky, gin, and cognac. 72,080; renewed Dec. 29, 1928.

Burke, Edward & John, Limited, Dublin, Ireland, and New York, N. Y., to Edward & John Burke, Limited, Dublin, Ireland. Stout and ale. 72,128; renewed Jan. 5, 1929.

Burke, Edward & John, Limited, Dublin, Ireland, and New York, N. Y., to Edward & John Burke, Limited, Dublin, Ireland. Blended Irish whiskies, dry gin, and Jamaica rum. 72,150; renewed Jan. 5, 1929.

Burnoyl Heating Corporation, also doing business as Automatic Equipment Co., Providence, R. I. Portable hand fire extinguishers and automatic fire extinguishers. 248,039; Oct. 16; Serial No. 265,884; published Aug. 7, 1928. Class 23.

Burrows, George R., Inc., New York, N. Y. Tarpaulins. 248,143; Oct. 16; Serial No. 265,423; published July 31, 1928. Class 50.

Buxbaum, Nathan, Brooklyn, N. Y. Frosted, sliced, etc., fruits. 248,105; Oct. 16; Serial No. 267,483; published Aug. 7, 1928. Class 46.

"Buyer's Tablet" Publication, The, New York, N. Y. Annual publication. 248,351; Oct. 16. Class 37.

Cairns, Patrick, doing business as Wyoming Malt and Hops Supply Co., Philadelphia, Pa. Barley-malt syrup. 248,191; Oct. 16; Serial No. 268,209; published July 31, 1928. Class 46.

Calajoe, Anthony J., doing business as Walcal Laboratories, Inc., New York, N. Y. Blood purifier. 248,061; Oct. 16; Serial No. 263,070; published Aug. 7, 1928. Class 6.

Caplano Timber Co., Ltd., North Vancouver, British Columbia, Canada. Sawmill products. 248,144; Oct. 16; Serial No. 264,079; published July 24, 1928. Class 12.

Carrier Engineering Corporation, Newark, N. J. Refrigerants or liquid refrigerating mediums. 248,155; Oct. 16; Serial No. 267,296; published July 31, 1928. Class 6.

Carter Dry Goods Co., Louisville, Ky. Hosiery. 248,090; Oct. 16; Serial No. 265,319; published July 10, 1928. Class 39.

Cavendish Chemical Corp., New York, N. Y. Tooth pastes. 248,258; Oct. 16; Serial No. 268,771; published Aug. 7, 1928. Class 6.

Celanese Corporation of America, New York, N. Y. Dresses and frocks. 248,037; Oct. 16; Serial No. 265,949; published July 10, 1928. Class 39.

Cenol Company, Chicago, Ill. Preparation for destroying moth and moth larvæ. 248,325; Oct 16; Serial No. 268,028; published Aug. 7, 1928. Class 6.

Central Coal and Supply Company. (See Jennings, W. M.)

Central West Products Company, Grand Rapids, Mich. Malt extract. 248,324; Oct. 16; Serial No. 268,029; published July 31, 1928. Class 46.

Chapman's, Los Angeles, Calif. Ice creams and ice-cream cakes. 248,363; Oct. 16. Class 46.

Charred Sticks Company. (See Wright, James L.)

Chemical Foundation, Incorporated, The. (See Daimler-Motoren-Gesellschaft, assignor.)

Chemical Foundation, Incorporated, The. (See Rathenower Optische Industrie Anstalt vorm. Emil Busch A. G., assignor.)

Chemical Surgery Co., Oakland, Calif. Therapeutic bath compounds. 248,280; Oct. 16; Serial No. 258,796; published July 31, 1928. Class 6.

Chromeplate, Inc., Union City, N. J. Preparation for use as a metal surface finish or plating. 248,373–4; Oct. 16. Class 6.

Clark, A. C., Company, Inc., Brattleboro, Vt., and Keene, N. H. Salve. 248,326; Oct. 16; Serial No. 267,934; published Aug. 7, 1928. Class 6.

Clover Coal Company, Inc., Philadelphia, Pa. Coal. 248,208; Oct. 16; Serial No. 245,894; published July 24, 1928. Class 1.

Cochran Company, The. (See Ford, Virginia L.)

Cohen, Goldman & Co. Inc., New York, N. Y. Men's, boys' and children's outer garments. 248,086; Oct. 16; Serial No. 265,365; published July 10, 1928. Class 39.

Cohen, Montague D., assignor to A. Schadow, New York, N. Y. Shoe-trees. 248,032; Oct. 16; Serial No. 266,022; published July 24, 1928. Class 50.

Colbert, James A., Fort Wayne, Ind. Medicinal preparation. 248,333; Oct. 16; Serial No. 268,354; published Aug. 7, 1928. Class 6.

Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Preparation for the treatment of anemia, etc. 248,180; Oct. 16; Serial No. 268,587; published Aug. 7, 1928. Class 6.

Colorado Refining & Research Corp., Denver, Colo. Chemical reagents. 248,195; Oct. 16; Serial No. 268,271; published Aug. 7, 1928. Class 6.

Commercial Petroleum Company, St. Joseph, Mo. Insecticides. 248,334; Oct. 16; Serial No. 268,355; published Aug. 7, 1928. Class 6.

Consolidated Rendering Company, also doing business as Atlantic Packing Company, Boston, Mass. Heavy chemicals. 248,320; Oct. 16; Serial No. 268,082; published Aug. 7, 1928. Class 6.

Cooper Laboratories, Inc., The, Dayton, Ohio. Medicinal tonic. 248,263; Oct. 16; Serial No. 267,757; published July 24, 1928. Class 6.

Cornstalk Products Company, Inc., New York, N. Y. Bleached and unbleached chemical pulp. 248,135; Oct. 16; Serial No. 265,524; published July 31, 1928. Class 1.

Croff, A. C., Philadelphia, Pa. Depilatory powder, deodorant cream, etc. 248,337; Oct. 16; Serial No. 266,977; published Aug. 7, 1928. Class 6.

Crotty, Robert E., Newark, N. J. Walnut borders, strips, and flooring of wood. 248,252; Oct. 16; Serial No. 246,716; published July 31, 1928. Class 12.

Curtis-Leger Fixture Company, Chicago, Ill. Mannequins, statuettes, models, and figures for window, store, etc., display, and parts thereof. 248,217; Oct. 16; Serial No. 260 879; published July 10, 1928. Class 50.

Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Mensures and optical goods. 71,288; renewed Nov. 17, 1928.

Daly, Webster J., Los Angeles, Calif. Liquid preparation for hair restoring. 248,318; Oct. 16; Serial No. 268,144; published Aug. 7, 1928. Class 6.

Davies, Rose & Co., Ltd., Boston, Mass. Radiopaque, diagnostic preparation. 248,070; Oct. 16; Serial No. 266,853; published July 24, 1928. Class 6.

Deister Concentrator Company, The, Fort Wayne, Ind. Vibrating screens. 248,359; Oct. 16. Class 23.

Delaware, Lackawanna & Western Coal Company, The, New York, N. Y. Coal. 248,219; Oct. 16; Serial No. 260,812; published June 5, 1928. Class 1.

Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 248,057; Oct. 16; Serial No. 262,703; published Aug. 7, 1928. Class 13.

Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 248,174; Oct. 16; Serial No. 264,084; published Aug. 7, 1928. Class 13.

Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 248,213; Oct. 16; Serial No. 254,836; published Aug. 7, 1928. Class 13.

Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 248,335; Oct. 16; Serial No. 268,357; published Aug. 7, 1928. Class 13.

Delubac, Auguste, Vals-les-Bains, France. Covercoats, waistcoats, coats, pants. 248,131; Oct. 16; Serial No. 265,625; published July 10, 1928. Class 39.

Dernehl, Herbert, doing business as Dernehl Food Products Co., Milwaukee, Wis. Food product. 248,368; Oct. 16. Class 46.

Diaz, Félix A., doing business as Laboratoires Filarysine, Santurce, P. R. Pharmacentical preparation. 248,169; Oct. 16; Serial No. 264,223; published July 24, 1928. Class 6.

Dresvelope Company of America. (See Blunt, Miles.)

Dromore Kennels Reg. (See Sharland, Ernest W.)

Dunn, Max, doing business as M. Dunn & Co., Philadelphia, Pa. Wash frocks. 248,142; Oct. 16; Serial No. 265,426; published July 10, 1928. Class 39.

Du Pont Rayon Company, Buffalo, N. Y. Cellulose-acetate yarns, threads, and filaments. 248,302; Oct. 16; Serial No. 267,187; published July 17, 1928. Class 43.

Du Pont Rayon Company, Buffalo, N. Y. Knitted and woven piece goods. 248,303; Oct. 16; Serial No. 267,186; published July 17, 1928. Serial No. 42.

Durham Safety Razor Co., assignor to Durham Duplex Razor Company, New York, N. Y. Razors. 70,855; renewed Oct. 13, 1928.

Eaton, Horace M., Lynn, Mass. Unbleached and undyed textile fabrics of cotton coated with an adhesive. 248 286; Oct. 16; Serial No. 257,405; published Mar. 20, 1928. Class 50.

El-Food Corporation, Dallas, Tex. Mayonnaise, salad dressing, etc. 248,085; Oct. 16; Serial No. 265,369; published July 31, 1928. Class 46.

Ely & Walker Dry Goods Co., St. Louis, Mo. Shirts, blouses, play suits, etc. 248,244; Oct. 16; Serial No. 264,972; published July 10, 1928. Class 39.

Emons, Ernest E., Akron, Ohio. Spectacles, spectacle frames, and parts thereof. 248,351; Oct. 16. Class 26.

Evans Sons Lescher & Webb Limited, Liverpool and London, England. Lime fruit juice. 70,483; renewed Sept. 8, 1928.

Excellent-Goody Shop, doing business as The Goody Shop, New York, N. Y. Candy. 248,207; Oct. 16; Serial No. 247,176; published Aug. 7, 1928. Class 46.

Face-A-Lite Manufacturing Company, Incorporated, Mitchell, S. Dak. Glare shields for automobile windshields. 248,235; Oct. 16; Serial No. 266,420; published Aug. 7, 1928. Class 19.

Fairchild Company, Chicago, Ill. Nom de plume for magazine articles. 248,353; Oct. 16. Class 38.

Fanny Farmer Candy Shops, Inc., Rochester, N. Y. Candy. 248,204; Oct. 16; Serial No. 251,223; published Aug. 7, 1928. Class 46.

Farastan Company, The, Ardmore, Pa. Preparation used in the treatment of rheumatism, etc. 248,164; Oct. 16; Serial No. 267,355; published July 24, 1928. Class 6.

Farmer Seed & Nursery Co., Faribault, Minn. Seeds. 248,295; Oct. 16; Serial No. 255,168; published Nov. 29, 1927. Class 1.

Farwell & Rhines Co., Inc., The, Watertown, N. Y. Self-rising wheat flour. 248,063; Oct. 16; Serial No. 263,207; published Aug. 7, 1928. Class 46.

Faultless Manufacturing Company, The. (See Rosenfeld, E., & Co., assignor.)

Federal Packing Co., The, Enosburg Falls, Vt., and New York, N. Y., assignor to Nestle's Food Company, Inc., New York, N. Y. Sterilized evaporated milk. 72,682; renewed Feb. 9, 1929.

Feldman, Charles L., et al., receivers. (See Wright Wire Company, assignor.)

Fendrich, H., assignor to H. Fendrich Incorporated, Evansville, Ind. Cigars. 72,615; renewed Feb. 9, 1929.

Fernandez, José, doing business as Jose Fernandez Cigar Co., Tampa, Fla. Cigars. 248,181; Oct. 16; Serial No. 267,889; published Aug. 7, 1928. Class 17.

Fesler, Geo. C. V., Company, St. Louis, Mo. Deodorant. 248,317; Oct. 16; Serial No. 268,152; published July 31, 1928. Class 6.

Fiberfraks Incorporated, Lockport and New York, N. Y. Fiber boards and irregular shapes. 248,221; Oct. 16; Serial No. 260,561; published May 22, 1928. Class 12.

Finkel, William, doing business as The Lloyd Company, Philadelphia, Pa. Skin soap. 248,369; Oct. 16. Class 4.

Fleer, Frank H., Corporation, Philadelphia, Pa. Candy-covered chewing gum. 248,289; Oct. 16; Serial No. 256,619; published Aug. 7, 1928. Class 46.

Fleron, M. M., & Son, Inc., doing business as Bercy's Laboratories, Trenton, N. J. Astringents, bleach creams, cold creams, etc. 248,198; Oct. 16; Serial No. 268,278; published Aug. 7, 1928. Class 6.

Flint, Frank C., doing business as Knit Goods Specialty Company, Chicopee Falls, Mass. Fabric bags. 248,103; Oct. 16; Serial No. 267,562; published Aug. 7, 1928. Class 2.

Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 248,101–2; Oct. 16; Serial Nos. 267,563–4; published July 24, 1928. Class 12.

Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 248,265; Oct. 16; Serial No. 267,703; published July 24, 1928. Class 12.

Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 248,275; Oct. 16; Serial No. 2671571; published July 31, 1928. Class 12.

Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 248,276; Oct. 16; Serial No. 267,569; published July 24, 1928. Class 12.

Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 248,277; Oct. 16; Serial No. 267,568; published July 31, 1928. Class 12.

Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 248,278; Oct. 16; Serial No. 267,566; published July 31, 1928. Class 12.

Flintkote Company, The, Boston, Mass. Shingles. 248,336; Oct. 16; Serial No. 267,565; published July 31, 1928. Class 12.

Florida Fruit Canners, Inc., Frostproof, Fla. Canned grapefruit. 248,116; Oct. 16; Serial No. 266,654; published Aug. 7, 1928. Class 46.

Foam-Olio Company. (See Monaco, Vincent.)

Ford, Virginia L., doing business as The Cochran Company, Hays, Kans. Poultry tonic. 248,323; Oct. 16; Serial No. 268,033; published July 31, 1928. Class 6.

Frankart Inc., New York, N. Y. Aquariums. 248,229; Oct. 16; Serial No. 266,522; published Aug. 7, 1928. Class 2.

Fried-Lang Leather Co., Inc., New York, N. Y. Leather. 248,079; Oct. 16; Serial No. 266,726; published July 10, 1928. Class 1.

Freydberg Brothers, Incorporated, New York, N. Y. Weather strips of flexible material. 248,274; Oct. 16; Serial No. 267,572; published July 24, 1928. Class 12.

Fuge Laboratories. (See Poulin, William J.)

Fulton Bag & Cotton Mills, Atlanta, Ga. Tents, tarpaulins, and waterproofed fabrics. 248,262; Oct. 16; Serial No. 267,763; published July 31, 1928. Class 50.

Gainor, Everett F., doing business as Gainor Manufacturing Co., Oakland, Calif. Auto polish, prepared gasket shellac, etc. 248,372; Oct. 16. Class 16.

Galloway Coal Company, Memphis, Tenn. Coal. 248,168; Oct. 16; Serial No. 264,226; published July 10, 1928. Class 1.

Gamadin Laboratories, Inc., Philadelphia, Pa. Preparation for rheumatism, etc. 248,163; Oct. 16; Serial No. 267,358; published July 24, 1928. Class 6.

Garland, Augustus H., doing business as Bon Soir Bug Company, Opelousas, La. Insecticides. 248,097; Oct. 16; Serial No. 265,268; published Aug. 7, 1928. Class 6.

Gas Grain Treater Co., Portland, Oreg. Liquid fuel. 248,281; Oct. 16; Serial No. 258,523; published July 24, 1928. Class 6.

Gatkowski, Stanley, doing business as Golden Herb Remedy Company, Chicago, Ill. Medicinal teas. 248,370; Oct. 16. Class 6.

Gebrüder Kroner, Berlin, Germany. Cleaning and polishing preparations for leather and metals, etc. 248,201; Oct. 16; Serial No. 250,924; published June 12, 1928. Class 4.

General-Direktion der Österr. Tabakregie, Vienna, Austria. Chewing, smoking, snuffing tobaccos, etc. 248,129; Oct. 16; Serial No. 265,638; published Aug. 7, 1928. Class 17.

General-Direktion der Österr. Tabakregie, Vienna, Austria. Chewing, smoking, snuffing tobaccos, etc. 248,130; Oct. 16; Serial No. 265,632; published Aug. 7, 1928. Class 17.

General Material Company, St. Louis, Mo. Ready-mixed concrete. 248,096; Oct. 16; Serial No. 265,269; published July 10, 1928. Class 12.

General Research Laboratories, Inc., Sebring, Fla. Therapeutic, nontoxic, nonirritant, nonpoisonous liquid. 248,296; Oct. 16; Serial No. 267,250; published July 31, 1928. Class 6.

Gewerkschaft Auguste, Leutnitz, near Rottenbach, Germany. Heavy spar. 248,055; Oct. 16; Serial No. 262,515; published July 10, 1928. Class 1.

Gibsonburg Lime Products Company, The, Gibsonburg, Ohio. Mason's lime. 248,124; Oct. 16; Serial No. 266,527; published July 24, 1928. Class 12.

Gibsonburg Lime Products Company, The, Gibsonburg, Ohio. Finishing lime. 248,228; Oct. 16; Serial No. 266,526; published July 24, 1928. Class 12.

Golden Herb Remedy Company. (See Gatkowski, Stanley.)

Goldstein, Israel O., doing business as Goldstein Laboratories, Philadelphia, Pa. Hair tonic. 248,273; Oct. 16; Serial No. 267,574; published July 24, 1928. Class 6.

Godet Inc., New York, N. Y. Face powders, face creams, rouges, pomades, etc. 248,212; Oct. 16; Serial No. 219,892; published Nov. 3, 1925. Class 6.

Good Roads Company, Inc., Upper Darby, Pa. Coldpatch and bituminous material. 248,141; Oct. 16; Serial No. 265,432; published July 24, 1928. Class 12.

Goodrich Bakeries, Incorporated, Mount Vernon, N. Y. Pies. 248,248; Oct. 16; Serial No. 264,880; published Aug. 7, 1928. Class 46.

Goody Shop, The. (See Excellent-Goody Shop.)

Graham, Dr. N., & Co., Indian Head, Saskatchewan, and Chatham, Ontario, Canada. Medicinal compound. 248,158; Oct. 16; Serial No. 263,464; published Aug. 7, 1928. Class 6.

Graham Paper Company, St. Louis, Mo. Carpet felt. 248,209; Oct. 16; Serial No. 235,469; published July 10, 1928. Class 50.

Great Western Sugar Company, The, Denver, Colo. Sugar. 248,159; Oct. 16; Serial No. 267,415; published July 31, 1928. Class 46.

Greene-Babcock Co., The, assignor to The Grocers-Producers Company, Cleveland, Ohio. Butter, oleomargarine, eggs, etc. 248,203; Oct. 16; Serial No. 252,100; published July 24, 1928. Class 46.

Griggs, Cooper & Company, St. Paul, Minn. Roast beef, canned sea foods, tapioca, etc. 248,238; Oct. 16; Serial No. 265,155; published July 17, 1928. Class 46.

Grocers-Producers Company, The. (See Greene-Babcock Co., The.)

Guillevic, Georges L., Paris, France. Preparation used in the treatment of neuralgia and as a febrifuge. 248,272; Oct. 16; Serial No. 267,575; published July 24, 1928. Class 6.

Gulf & West Indies Co., Inc., The, New York, N. Y. Chamois. 248,311; Oct. 16; Serial No. 267,045; published July 31, 1928. Class 1.

Gunmaken Raw Silk Corporat'onn of America, New York, N. Y. Raw silk. 248,153; Oct. 16; Serial No. 263,603; published July 3, 1928. Class 1.

H. and S. Products Co. (See Horgan, James P.)

Haag, Herbert L., doing business as Argray Drug Co., Indianapolis, Ind. Tablets. 248,216; Oct. 16; Serial No. 260,999; published July 24, 1928. Class 6.

Hahne & Company, Newark, N. J. Suits, coats, trousers, etc. 248,150; Oct. 16; Serial No. 263,761; published July 10, 1928. Class 39.

Hamburg Canning Company. (See Otoe Food Products Co.)

Harrison Lumber Company, Portland, Oreg. Lumber. 248,068; Oct. 16; Serial No. 263,392; published July 3, 1928. Class 12.

Hart-So Mfg. Co. (See Sobel, Helen.)

Hartmann Bros. Leather Co., Boston, Mass. Leathers. 248,115; Oct. 16; Serial No. 266,660; published July 10, 1928. Class 1.

Hazen, Ben H., Co., Portland, Oreg. Advertising displays. 248,223; Oct. 16; Serial No. 260,331; published July 17, 1928. Class 50.

Heppenstall Forge & Knife Company, Pittsburgh, Pa. Steel forgings. 248,375; Oct. 16. Class 14.

Hershey Chocolate Corporation, Hershey, Pa. Topping for ice cream, cakes, pastry, etc. 248,104; Oct. 16; Serial No. 267,490; published July 31, 1928. Class 46.

Hilow Manufacturing Company, Inc., Wichita Falls, Tex. Ladders. 248,314; Oct. 16; Serial No. 266,994; published July 24, 1928. Class 50.

Hilscher, Sophie J., doing business as A. J. Hilscher, Baltimore, Md. Plants and flowers. 248,128; Oct. 16; Serial No. 265,644; published July 17, 1928. Class 1.

Hinds, A. S., Co., Bloomfield, N. J. Lotion for the skin and complexion. 248,059; Oct. 16; Serial No. 262,849; published Aug. 7, 1928. Class 6.

Hoffman, Charles, New York, N. Y. Dresses. 248,127; Oct. 16; Serial No. 265,645; published July 10, 1928. Class 39.

Honigbaum, Harry H., doing buisenss as The Rubber Roofing Co., New York, N. Y. Composition roofing. 248,288; Oct. 16; Serial No. 257,066; published July 17, 1928. Class 12.

Hopkins, J. L., & Co., New York, N. Y. Henna. 248,339; Oct. 16; Serial No. 266,936; published Aug. 7, 1928. Class 6.

Horgan, James P., deceased, doing business as H. and S. Products Co.; William P. Sanborn, administrator, Manchester, N. H. Perparation for treating pains. 248,123; Oct. 16; Serial No. 266,539; published July 24, 1928. Class 6.

Hosiery Mills Co., The, Chicago, Ill. Hosiery. 248,134; Oct. 16; Serial No. 265,546; published July 10, 1928. Class 39.

Hub, Henry C. Lytton & Sons, The, Chicago, Ill. Men's and boys' coats, vests, etc. 248,152; Oct. 16; Serial No. 263,660; published July 10, 1928. Class 39.

Hudson Manufacturing Co., Minneapolis, Minn. Sprayers and spraying attachments. 248,305; Oct. 16; Serial No. 267,123; published Aug. 7, 1928. Class 23.

Hudson Manufacturing Co., Minneapolis, Minn. Sprayers and spraying attachments. 248,306; Oct. 16; Serial No. 267,122; published August 7, 1928. Class 23.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, and Berlin, Germany. Writing and drawing inks. 248,021–2; Oct. 16; Serial Nos. 266,196–7; published Aug. 7, 1928. Class 11.

International Fibre Company. (See Whited, Oric O.)

Jackson, Wm. H., Company, New York, N. Y. Mantelpieces. 248,167; Oct. 16; Serial No. 264,308; published July 24, 1928. Class 12.

Jacoby, J., Co., Los Angeles, Calif. Knitted underwear, hosiery, and cut and sewed underwear. 248,084; Oct. 16; Serial No. 265,384; published July 10, 1928. Class 39.

James Manufacturing Company, Fort Atkinson, Wis. Metal gutter and manger grains, metal gates, etc. 248,292; Oct. 16; Serial No. 256,193; published Aug. 7, 1928. Class 13.

Jenkins, Harold C., doing business as Jenkins Pharmacal Co., Los Angeles, Calif. Emmenagogue. 248,009; Oct. 16; Serial No. 266,086; published July 31, 1928. Class 6.

Jennings, W. N., doing busines as Central Coal and Supply Company, Moberly, Mo. Coal. 248,301; Oct. 16; Serial No. 267,198; published July 24, 1928. Class 1.
Jewel Tea Co., Inc., Chicago, Ill. Coffee. 248,178; Oct. 16; Serial No. 268,614; published Aug. 7, 1928. Class 46.
Johnson, Charles W., Natick and Boston, Mass., assignor to Salamander Schuhgesellschaft m. b. H., Berlin, Germany. Shoes manufactured of leather. 71,593; renewed Dec. 1, 1928.
Jordeau, Jean, Inc., South Orange, N. J., and New York, N. Y. Razors. 248,051; Oct. 16; Serial No. 261,229; published Aug. 7, 1928. Class 23.
Kalbaugh Coal Company, Inc., The, Cumberland, Md. Coal. 248,031; Oct. 16; Serial No. 266,032; published July 10, 1928. Class 1.
Karlinsky, Abraham M., doing business as The Karlo Products Company, Cleveland, Ohio. Candy-mint laxatives. 248,049; Oct. 16; Serial No. 261,063; published July 31, 1928. Class 6.
Karlo Products Company, The. (See Karlinsky, Abraham M.)
Katz, George J., doing business as Kay Laboratories, Chicago, Ill. Foot powder and a remedy for treatment of corns, bunions, etc. 248,332; Oct. 16; Serial No. 267,894; published July 31, 1928. Class 6.
Kay Laboratories. (See Katz, George J.)
Kay Laboratories, Inc., West Nyack, N. Y. Chemical product for denaturing alcohol. 248,309–10; Oct. 16; Serial Nos. 267,060–1; published Aug. 7, 1928. Class 6.
Keenan, M. A., & Sons, New London, Conn. Malt extract for medical use. 248,161; Oct. 16; Serial No. 267,362; published Aug. 7, 1928. Class 6.
Kelley-Clarke Co., Seattle, Wash. Canned fish. 248,157; Oct. 16; Serial No. 268,791; published Aug. 7, 1928. Class 46.
Kelley-Clarke Co., Seattle, Wash. Canned fish. 248,177; Oct. 16; Serial No. 268,615; published Aug. 7, 1928. Class 46.
Kelley-Clarke Co., Seattle, Wash. Canned fish. 248,256–7; Oct. 16; Serial Nos. 268,789–90; published Aug. 7, 1928. Class 46.
Kenny, C. D., Co., Baltimore, Md. Coffee. 248,357; Oct. 16. Class 46.
Kentucky Nip Corporation, New York, N. Y. Maltless beverage. 248,233–4; Oct. 16; Serial Nos. 266,430–1; published Aug. 7, 1928. Class 45.
Kentucky Vegetable Growers Association, Inc., Louisville, Ky. Fresh vegetables. 248,149; Oct. 16; Serial No. 263,767; published Aug. 7, 1928. Class 46.
Keystone Asphalt Products Company. (See Michael, Louis.)
Knickerbocker Ice Company, New York, N. Y. Ice products. 248,354; Oct. 16. Class 1.
Knit Goods Specialty Company. (See Flint, Frank C.)
Kohr, Elton D., York, Pa., and Atlantic City, N. J. Frozen custard. 248,362; Oct. 16. Class 46.
Kovach, Benedict, doing business as Benedict Company, Los Angeles, Calif. Ointments. 248,156; Oct. 16; Serial No. 267,262; published Aug. 7, 1928. Class 6.
Laboratoires Filarysine. (See Diaz, Felix A.)
Lactona Company, The, Chicago, Ill. Tooth paste. 248,109; Oct. 16; Serial No. 267,429; published July 24, 1928. Class 6.
Lailaheur, Inc., New York, N. Y. Hand lotion. 248,264; Oct. 16; Serial No. 267,711; published Aug. 7, 1928. Class 6.
La Maroquinerie Nationale, Soc. Anc., Brussels, Belgium. Leather, chamois leather, and skins. 248,112; Oct. 16; Serial No. 259,498; published July 24, 1928. Class 1.
Landau, Henry M., Boston, Mass. Laxative. 248,271; Oct. 16; Serial No. 267,591; published July 24, 1928. Class 6.
Laramie County Certified Seed Potato Growers Association, Egbert, Wyo. Seed potatoes. 248,246; Oct. 16; Serial No. 264,893; published July 17, 1928. Class 1.
Largman, Gray Company, Croydon, Pa., and New York, N. Y. Hosiery. 248,138; Oct. 16; Serial No. 265,482; published July 10, 1928. Class 39.
Larré Laboratories. (See Lawrence, F. E.)
Lattimore, Clarence M., doing business as Service Laboratories, St. Louis, Mo. Liquid compound. 248,371; Oct. 16. Class 6.
Lavino, E. J., and Company, Philadelphia, Pa. Chrome ore. 248,118; Oct. 16; Serial No. 266,635; published July 24, 1928. Class 1.
Lawrence, F. E., doing business as Larré Laboratories, Denver, Colo. Female suppositories. 248,367; Oct. 16. Class 6.
Leary, J., Frederick, Philadelphia, Pa. Flowers. 248,249; Oct. 16; Serial No. 264,761; published July 24, 1928. Class 1.
Les Etablissements Poulenc Freres, Paris, France. Chlorhydrate of metaamino stovaine. 248,308; Oct. 16; Serial No. 267,066; published July 24, 1928. Class 6.
Lewis-Wise Co. Inc., New York, N. Y. Robes, dressing gowns, etc. 248,099–100; Oct. 16; Serial Nos. 265,220–1; published July 10, 1928. Class 39.
Lewis-Wise Co. Inc., New York, N. Y. Men's and boys' robes, dressing gowns, lounge suits, etc. 248,236; Oct. 16; Serial No. 265,219; published July 10, 1928. Class 39.
Libbey-Owens Sheet Glass Company, The, Toledo, Ohio. Sheet glass. 248,377–8; Oct. 16. Class 33.
Link-Belt Company, Chicago, Ill. Chains and chain links. 248,382; Oct. 16. Class 13.
Liverogen Company, Cincinnati, Ohio. Tablets. 248,078; Oct. 16; Serial No. 266,737; published July 24, 1928. Class 6.
Lloyd Company, The. (See Finkel, William.)
Loeser, Frederick, and Co., Brooklyn, N. Y. Dresses. 248,313; Oct. 16; Serial No. 267,002; published July 17, 1928. Class 39.
Logan-Long Company, The, Chicago, Ill. Prepared roll roofing. 248,065; Oct. 16; Serial No. 263,275; published July 24, 1928. Class 12.
Lupton's, David, Sons Company, Philadelphia, Pa. Rivets. 248,107–8; Oct. 16; Serial Nos. 267,432–3; published Aug. 7, 1928. Class 13.
M. O. Chemical Co. (See Bockhold, Anthony J.)
Macfadden True Story Pictures Inc., New York, N. Y. Motion pictures. 248,346; Oct. 16. Class 26.
Magnet Knitting Mills, Clinton, Tenn. Hosiery. 248,254; Oct. 16; Serial No. 264,692; published July 17, 1928. Class 39.
Manning, Bowman & Co., Meriden, Conn. Knife handles, forks, and spoons. 248,192; Oct. 16; Serial No. 268,231; published Aug. 7, 1928. Class 23.
Marshall & Stearns Co., San Francisco, Calif. Beds, couches, and davenports. 248,175; Oct. 16; Serial No. 268,740; published Aug. 7, 1928. Class 32.
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candy. 248,154; Oct. 16; Serial No. 267,308; published Aug. 7, 1928. Class 46.
Mason, Erskine C., doing business as Mason's Pharmacy, Phoenix, Ariz. Oil for use as a tonic and mild laxative. 248,026; Oct. 16; Serial No. 266,088; published July 24, 1928. Class 6.
Masonite Corporation, Laurel, Miss. Fibre board, insulating board, etc. 248,040; Oct. 16; Serial No. 265,873; published July 17, 1928. Class 12.
Mayflower Stucco Company, Plymouth Meeting, Pa. Dry stucco. 248,237; Oct. 16; Serial No. 265,161; published July 10, 1928. Class 12.
McCallum Hosiery Company, Northampton, Mass. Hosiery. 248,025; Oct. 16; Serial No. 266,089; published July 17, 1928. Class 39.
McKee, James, doing business as The O-Three Laboratory, Media, Pa. Medicated oils and ointments. 248,222; Oct. 16; Serial No. 260,455; published July 24, 1928. Class 6.
Michael, Louis, doing business as Keystone Asphalt Products Company, Philadelphia, Pa. Asphalt and asbestos-fibre roofing compound. 248,110; Oct. 16; Serial No. 259,963; published July 17, 1928. Class 12.
Miller, Albert, & Company, Chicago, Ill. Fresh potatoes. 248,034; Oct. 16; Serial No. 266,010; published Aug. 7, 1928. Class 46.
Miller's, Jacob, Sons Co., Philadelphia, Pa. Men's dress and negligee shirts. 248,224; Oct. 16; Serial No. 260,285; published July 10, 1928. Class 39.
Milwaukee Flush Valve Company, Milwaukee, Wis. Metal-surface finish or plating. 248,111; Oct. 16; Serial No. 259,744; published Feb. 28, 1928. Class 6.
Mirgeler, Robert W., doing business as The R. W. Mirgeler Co., Rockford, Ill. Pharmaceutical preparation. 248,020; Oct. 16; Serial No. 266,211; published July 24, 1928. Class 6.
Missouri Portland Cement Company, St. Louis, Mo. Building cement. 248,012; Oct. 16; Serial No. 266,388; published July 31, 1928. Class 12.
Missouri Portland Cement Company, St. Louis, Mo. Building cement. 248,013; Oct. 16; Serial No. 266,387; published July 24, 1928. Class 12.
Mitchell & Dillon Coal Company, Chicago, Ill. Coal. 248,205; Oct. 16; Serial No. 248,782; published July 10, 1928. Class 1.
Mitex Products Co., Portland, Oreg. Medicinal relief. 248,253; Oct. 16; Serial No. 264,694; published July 24, 1928. Class 6.
Mohawk-Merrill Tire Company, Inc., St. Louis, Mo. Portable automobile tire and tube repair kits. 248,050; Oct. 16; Serial No. 261,202; published Aug. 7, 1928. Class 35.
Monaco, Vincent, doing business as Foam-Olio Company, Jersey City, N. J. Shampoo. 248,232; Oct. 16; Serial No. 266,434; published July 24, 1928. Class 6.
Moore, Edward J., Sons, Inc., doing business as Sanger & Co., Long Island City, N. Y. Antiseptic douche. 248,069; Oct. 16; Serial No. 266,872; published Aug. 7, 1928. Class 6.
Morrish, Edward, St. Louis, Mo. Preparation for the treatment of infections of the sinuses of the nose and throat. 248,106; Oct. 16; Serial No. 267,438; published July 24, 1928. Class 6.
Mountain View Fruit Association, Upland, Calif. Fresh citrus fruits. 248,294; Oct. 16; Serial No. 255,665; published Aug. 7, 1928. Class 46.
Moxie Company, The, Boston, Mass. Ice cream. 248,162; Oct. 16; Serial No. 267,380; published July 31, 1928. Class 46.
Mustad, O., & Son, Oslo, Norway. Fishhooks. 248,360; Oct. 16. Class 22.
Naef & Cie., Sté. Ame. M., Geneva, Switzerland. Artificial and synthetical perfumes, essential oils. 248,299–300; Oct. 16; Serial Nos. 267,215–16; published July 31, 1928. Class 6.

National Biscuit Company, Jersey City, N. J., and New York, to National Biscuit Company, New York, N. Y. Biscuit and crackers. 71,785–7; renewed Dec. 15, 1928.
National Lime & Stone Company, The, Findlay, Ohio. Lime plaster. 248,287; Oct. 16; Serial No. 257,112; published July 10, 1928. Class 12.
National Stone Company, Kansas City, Mo. Sand, clay, and various grades of stone. 248,166; Oct. 16; Serial No. 264,529; published July 10, 1928. Class 1.
National Varnish Company's Chemical Division, Inc., Long Island City, N. Y. Cement paste colors, hardening and waterproofing liquid, etc. 248,202; Oct. 16; Serial No. 252,271; published July 10, 1928. Class 12.
Nave-McCord Mercantile Company, St. Joseph, Mo. Canned fruits, canned vegetables, etc. 70,960; renewed Oct. 20, 1928.
Nestle's Food Company, The. (See Federal Packing Co., The, assignor.)
Neva-Clog Products, Inc., Bridgeport, Conn. Stapling machines and attachments. 248,322; Oct. 16; Serial No. 268,054; published Aug. 7, 1928. Class 23.
New England Confectionery Co., Portland, Me., and Boston, assignor to New England Confectionery Company, Cambridge, Mass. Chocolate candies. 70,260–3; renewed Aug. 18, 1928.
New Process Company, Warren, Pa. Neckties. 248,345; Oct. 16; Serial No. 265,492; published July 17, 1928. Class 39.
New York Coal Company, Augusta, Me., and Columbus, to New York Coal Company, Columbus, Ohio. Coal. 71,512; renewed Dec. 1, 1928.
Nichiro Gyogyo Kabushiki Kaisha, Tokyo, Japan. Canned beef, pork, and chicken. 248,279; Oct. 16; Serial No. 259,209; published July 31, 1928. Class 46.
Norm Manufacturing Co. (See Thurston, Walter R.)
Norris Grain Company, Chicago, Ill. Oats. 248,293; Oct. 16; Serial No. 255,860; published Aug. 7, 1928. Class 46.
Norwich Pharmacal Company, The, Norwich, N. Y. Alteratives, analgesics, anaphrodisiacs, etc. 248,261; Oct. 16; Serial No. 267,785; published July 24, 1928. Class 6.
Nye, Charles A. (See United Chemical Co.)
Oberhausser & Landauer, now by change of name to Oberhausser & Landauer, Kneipp-Haus-Centrala, Wurzberg, Germany. Medicines, medicinal specialties, and articles for the toilet. 31,590; renewed May 24, 1928.
Occy-Crystine Corporation, New York, N. Y. Proprietary medicine and a saline cathartic. 248,095; Oct. 16; Serial No. 265,287; published Aug. 7, 1928. Class 6.
Ocean Bathing Suit Co., The, New York, N. Y. Bathing suits. 248,122; Oct. 16; Serial No. 266,552; published July 17, 1928. Class 39.
Ohio Salt Company, The, Wadsworth, Ohio. Salt. 248,268; Oct. 16; Serial No. 267,663; published July 17, 1928. Class 6.
Old Ben Coal Corporation, Chicago, Ill. Coal. 248,361; Oct. 16. Class 1.
Oster Manufacturing Company, The, Cleveland, Ohio. Thread-cutting tools, machines, etc. 248,319; Oct. 16; Serial No. 268,111; published Aug. 7, 1928. Class 23.
O-Three Laborntory, The. (See McKee, James.)
Otoe Food Products Co., also doing business as Hamburg Canning Company, Nebraska City, Nebr. Canned vegetables. 248,260; Oct. 16; Serial No. 267,787; published Aug. 7, 1928. Class 46.
Page Milling Company, The, Luray, Va. Wheat flour. 248,366; Oct. 16. Class 46.
Pale Moon Company of America, Philadelphia, Pa. Beverages and syrup for making the same. 248,018; Oct. 16; Serial No. 266,265; published Aug. 7, 1928. Class 45.
Paraffine Companies, Inc., The, San Francisco, Calif. Plastic cement. 248,211; Oct. 16; Serial No. 229,699; published July 10, 1928. Class 12.
Pardee, C., Works, The, Perth Amboy, N. J., and Philadelphia, Pa. Tile. 248,042; Oct. 16; Serial No. 265,854; published July 10, 1928. Class 12.
Parke, Davis & Company, Detroit, Mich. Surgical lubricant. 248,113; Oct. 16; Serial No. 266,682; published July 24, 1928. Class 6.
Parke, Davis & Company, Detroit, Mich. Astringent. 248,114; Oct. 16; Serial No. 266,681; published July 24, 1928. Class 6.
Peck & Peck, New York, N. Y. Hosiery. 248,015; Oct. 16; Serial No. 266,328; published July 17, 1928. Class 39.
Peerless Carbon Black Company, Limited, to The Peerless Carbon Black Co., Pittsburgh, Pa., successor. Carbon blacks. 34,818; renewed July 19, 1928.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Rubber sheeting (bed and crib sheeting). 248,245; Oct. 16; Serial No. 264,910; published July 10, 1928. Class 50.
Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Chlorinated lime. 248,083; Oct. 16; Serial No. 265,400; published July 17, 1928. Class 6.
Perkins, B. F., & Son, Incorporated, Holyoke, to B. F. Perkins & Son, Inc., Willimansett, Chicopee, Mass. Paper-testing machines. 72,681; renewed Feb. 9, 1929.
Perugia, André, Paris, France. Boots and shoes. 248,225; Oct. 16; Serial No. 260,138; published July 17, 1928. Class 39.
Petroleum Derivatives Company, Montclair, N. J. Toilet lotion and cleanser for the skin. 248,066; Oct. 16; Serial No. 263,345; published July 24, 1928. Class 6.
Pettifer, James A., Seattle, Wash. Tooth powder. 248,290; Oct. 16; Serial No. 256,301; published Aug. 7, 1928. Class 6.
Phillips, Curtis S., San Antonio, Tex. Preparation for the treatment of pyorrhea. 248,080; Oct. 16; Serial No. 266,684; published July 24, 1928. Class 6.
Phillips-Jones Corporation, New York, N. Y. Collars and shirts. 248,045; Oct. 16; Serial No. 265,738; published July 10, 1928. Class 39.
Pie Bakeries of America, Inc., Newark, N. J. Pies. 248,210; Oct. 16; Serial No. 229,082; published Aug. 7, 1928. Class 46.
Pierce, Michael C., New York, N. Y. Liquid for making cement waterproof. 248,014; Oct. 16; Serial No. 266,330; published July 24, 1928. Class 12.
Piller Bros. & Herschel, Inc., New York, N. Y. Dresses. 248,242; Oct. 16; Serial No. 265,066; published July 10, 1928. Class 39.
Pinaud Incorporated, New York, N. Y. Hair tonic. 248,171–3; Oct. 16; Serial Nos. 264,193–5; published July 17, 1928. Class 6.
Pittsburgh Coal Company, Pittsburgh, Pa. Coal. 248,017; Oct. 16; Serial No. 266,266; published July 24, 1928. Class 1.
Pittsburgh Machine Tool Company, Braddock, Pa. Rotary pumps. 248,355; Oct. 16. Class 23.
Pohlig, Edgar W., San Francisco, Calif. Electrotype cuts. 248,094; Oct. 16; Serial No. 265,293; published July 10, 1928. Class 50.
Pohlson, Carl V., Pawtucket, R. I. Combustible package containing a chemical. 248,231; Oct. 16; Serial No. 266,479; published July 24, 1928. Class 6.
Points, Rudolph H., doing business as Points' Seed Farms, Crosby, N. Dak. Field seeds. 248,093; Oct. 16; Serial No. 265,294; published July 10, 1928. Class 1.
Potter, P. H., & Sons, Inc., New York, N. Y. Solution for the treatment of rheumatism and other blood diseases. 248,259; Oct. 16; Serial No. 267,855; published July 24, 1928. Class 6.
Poulin, William J., doing business as Fuge Laboratories, Union City, N. J. Powder for use as a prophylactic, antiseptic, and deodorant. 248,344; Oct. 16; Serial No. 266,880; published Aug. 7, 1928. Class 6.
Presto-O-Lite Company, The, Indianapolis, Ind., assignor to The Prest-O-Lite Company, Inc., New York, N. Y. Preparations for removing carbon. 72,203; renewed Jan. 5, 1929.
Primrose House, Inc., Dover, Del., and New York, N. Y. Face creams, lotions, astringents, etc. 248,247; Oct. 16; Serial No. 264,845; published Aug. 7, 1928. Class 6.
Rainey, William J., Philadelphia, Pa. Potato chips. 248,358; Oct. 16. Class 46.
Rainized Process Ltd., New York, N. Y. Waterproofing compound. 248,307; Oct. 16; Serial No. 267,079; published July 24, 1928. Class 6.
Rathenower Optische Industrie Anstalt vorm. Emil Busch A. G., Rathenow, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Certain optical goods. 71,156; renewed Nov. 3, 1928.
Re-Bo Company, Inc., The, Syracuse, N. Y. Demountable bodies for hand trucks. 247,077; Oct. 16; Serial No. 266,752; published Aug. 7, 1928. Class 19.
Reinshagen, Leroy G., doing business as Roy's Distributing Company, Cincinnati, Ohio. Malt syrup. 248,270; Oct. 16; Serial No. 267,604; published July 31, 1928. Class 46.
Reis, Robert, & Co., New York, N. Y. Running pants or shorts. 248,121; Oct. 16; Serial No. 266,558; published July 17, 1928. Class 39.
Reliable Products Co., Chicago, Ill. Shampoo oil. 248,119; Oct. 16; Serial No. 265,564; published Aug. 7, 1928. Class 6.
Richmond Air Brake Co., Richmond, Ind. Air brakes. 248,376; Oct. 16. Class 19.
Richter, F. Ad., & Co. of New York, Brooklyn, N. Y. Hair tonic. 248,199; Oct. 16; Serial No. 268,309; published Aug. 7, 1928. Class 6.
Rivkin, Morris I., doing business as West Point Knitwear Mills, Philadelphia, Pa. Knitted swimming suits, bathing suits, and sweaters. 248,082; Oct. 16; Serial No. 265,406; published July 10, 1928. Class 39.
Rose Bros., New York, N. Y. Topcoats, overcoats, sport coats, etc. 248,140; Oct. 16; Serial No. 265,451; published July 10, 1928. Class 39.
Rosenfeld, E., & Co., assignor, by mesne assignments, to The Faultless Manufacturing Company, Baltimore, Md. Night robes, pajamas, overshirts, etc. 72,574; renewed Feb. 2, 1929.
Rothschild & Sons, Incorporated, Kansas City, Mo. Pajamas and underwear. 248,081; Oct. 16; Serial No. 265,410; published July 10, 1928. Class 39.
Roy's Distributing Company. (See Reinshagen, Leroy G.)
Rubber Roofing Co., The. (See Honigbaum, Harry H.)
Sacco, Angelina, New Orleans, La. Preparation for the treatment of skin diseases. 248,267; Oct. 16; Serial No. 267,670; published July 24, 1928. Class 6.
Salamander Schuhgesellschaft m. b. H. (See Johnson, Charles W., assignor.)
Saltine Company, Kansas City, Mo. Tooth powder. 248,044; Oct. 16; Serial No. 265,810; published July 24, 1928. Class 6.
Sanborn, William P., administrator. (See Horgan, James P.)

Sanger & Co. (See Moore, Edward J., Sons, Inc.)
Säureschutz-Gesellschaft m. b. H., Berlin-Alt-Glienicke, Germany. Centrifuges, extractors, aspirators, etc. 248,343; Oct. 16; Serial No. 266,889; published Aug. 7, 1928. Class 23.
Schadow, Adolph, New York, N. Y. (See Cohen, Montague D.)
Schaefer, F. & M., Brewing Co., The, Brooklyn, N. Y. Beverage. 248,347; Oct. 16. Class 48.
Scherrer, Marcel, Courbevoie, France. Tools. 248,282; Oct. 16; Serial No. 258,138; published Aug. 7, 1928. Class 23.
Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, knickerbockers, etc. 24,139; Oct. 16; Serial No. 265,454; published July 10, 1928. Class 39.
Schumacher Wall Board Corporation, Los Angeles, Calif. Construction material. 248,241; Oct. 16; Serial No. 265,070; published July 24, 1928. Class 12.
Seedol Pharmaceutical Laboratories. (See Associated Laboratories, Inc.)
Seminole Manufacturing Co., McAlester, Okla. Men's and boys' work pants, dress pants, etc. 248,058; Oct. 16; Serial No. 262,773; published July 10, 1928. Class 39.
Service Laboratories. (See Lattimore, Clarence M.)
Sharland, Ernest W., doing business as Dromore Kennels Reg., Baltimore, Md. Dog medicines. 248,120; Oct. 16; Serial No. 266,560; published Aug. 7, 1928. Class 6.
Sharp & Dohme, Incorporated, Baltimore, Md. Tonic. 248,011; Oct. 16; Serial No. 266,405; published July 24, 1928. Class 6.
Shaw, Arthur, St. Paul, Minn. Corn sugar. 248,126; Oct. 16; Serial No. 265,697; published July 24, 1928. Class 46.
Shekter, Jacob J., doing business as Beaver Produce Company, Portland, Oreg. Butter and eggs. 248,133; Oct. 16; Serial No. 265,578; published Aug. 7, 1928. Class 46.
Shirek & Hirsch, New York, N. Y. Coats, vests, overcoats, etc. 248,041; Oct. 16; Serial No. 265,861; published July 10, 1928. Class 39.
Sigmund, Franz, Stuttgart, Germany. Hair tonic and preparation for treating the hair and scalp. 248,148; Oct. 16; Serial No. 263,972; published Aug. 7, 1928. Class 6.
Smith, Kirkpatrick & Co., Inc., New York, N. Y. Ladies' hosiery. 248,218; Oct. 16; Serial No. 260,855; published July 10, 1928. Class 39.
Sobel, Helen, doing business as Hart-So Mfg. Co., Oklahoma City, Okla. Face lotion. 248,183; Oct. 16; Serial No. 267,869; published July 31, 1928. Class 6.
Societe Anonyme Eternit Emaille, Cappelle-au-Bois, Belgium. Building materials. 248,052; Oct. 16; Serial No. 261,331; published July 17, 1928. Class 12.
Speedaumat Addressing Machinery, Incorporated, Chicago, Ill. List-filing cabinets, cabinet sections, and stands. 248,030; Oct. 16; Serial No. 266,053; published Aug. 7, 1928. Class 32.
Spinharney, Charles, Scotia, Wash. Hog-conditioner germicide. 248,089; Oct. 16; Serial No. 265,346; published Aug. 7, 1928. Class 6.
Staedtler, The Firm of J. S., to J. S. Staedtler Kommanditt-Gesellschaft, Nuremberg, Germany, successor. Certain named articles of stationery. 31,928; renewed Aug. 30, 1928.
Stahelin, F. C., & Son, Bridgman, Mich. Strawberry plants. 248,125; Oct. 16; Serial No. 265,702; published July 10, 1928. Class 1.
Standard Card Clothing Company, The, Stafford Springs, Conn. Card clothing and band cards. 248,269; Oct. 16; Serial No. 267,614; published Aug. 7, 1928. Class 23.
Standard Drug Company, The, Cleveland, Ohio. Dry cleaner. 248,364; Oct. 16. Class 4.
Steppacher, W. M., & Bro., Inc., Philadelphia, Pa. Shirts and pajamas. 248,047; Oct. 16; Serial No. 265,703; published July 10, 1928. Class 39.
Steril Manufacturing Company, Omaha, Nebr. Embalming fluid. 248,266; Oct. 16; Serial No. 267,673; published Aug. 7, 1928. Class 6.
Sterling Products (Incorporated), Wheeling, W. Va. Laxative compound. 248,010; Oct. 16; Serial No. 266,407; published Aug. 7, 1928. Class 6.
Strahl, Frank M., Erie, Pa. Molders' shoes. 71,839; renewed Dec. 15, 1928.
Stranger, Reginald J., doing business as Strangers Ltd., Southampton, England. Beverages. 248,060; Oct. 16; Serial No. 262,975; published Aug. 7, 1928. Class 45.
Streit, C. F., Mfg. Co., The, Cincinnati, Ohio. Chairs and davenports. 72,021; renewed Dec. 29, 1928.
Strohmeyer & Arpe Co., New York, N. Y. Night lights. 72,504; renewed Jan. 26, 1929.
Strohmeyer & Arpe Co., New York, N. Y. Food preparations. 72,594–5; renewed Feb. 2, 1929.
Style Dress Co., Inc., The, New York, N. Y. Dresses. 248,036; Oct. 16; Serial No. 265,993; published July 10, 1928. Class 39.
Super Novelty Company, assignor to Super Novelty Company, Inc., New York, N. Y. Portable vacuum-cup brackets for hangers, mirrors, and shelves. 248,226; Oct. 16; Serial No. 260,054; published Aug. 7, 1928. Class 13.
Sweeney, James A., Providence, R. I. Eyeglasses and spectacles and the constituent parts of eyeglasses and spectacles. 248,019; Oct. 16; Serial No. 266,226; published Aug. 7, 1928. Class 26.
Swift and Company, Chicago, Ill. Gelatin. 248,184–8; Oct. 16; Serial Nos. 268,180–4; published July 31, 1928. Class 46.
Swift and Company, Chicago, Ill. Gelatin. 248,189–90; Oct. 16; Serial Nos. 268,186–7; published July 31, 1928. Class 46.
Swift and Company, Chicago, Ill. Gelatin. 248,193–4; Oct. 16; Serial Nos. 268,252–3; published July 31, 1928. Class 46.
Swift and Company, Chicago, Ill. Gelatin. 248,196; Oct 16; Serial No. 268,254; published July 31, 1928. Class 46.
Swift and Company, Chicago, Ill. Gelatin. 248,316; Oct. 16; Serial No. 268,179; published July 31, 1928. Class 46.
Thomas, George P., doing business as The Thomas Company, Pittsburgh, Pa. Metal-punching machines. 248,348; Oct. 16. Class 23.
Thompson, Willard L., doing business as Alkura Dispensary (Unincorporated), Madison, Wis. Alkalizing medical preparations. 248,342; Oct. 16; Serial No. 266,898; published July 24, 1928. Class 6.
Three Sisters, Philadelphia, Pa. Preparation for bleaching and removing stains. 248,024; Oct. 16; Serial No. 266,111; published July 31, 1928. Class 6.
Thurston, Walter R., doing business as Norm Manufacturing Co., Los Angeles, Calif. Joint paste. 248,283; Oct. 16; Serial No. 257,645; published July 3, 1928. Class 12.
Tiffany & Company, New York, N. Y. Medals of base metals and art bronzes, etc. 248,304; Oct. 16; Serial No. 267,161; published July 24, 1928. Class 50.
Trengove, Chas. T., also doing business as Trengove's Poultry Farm, Portland, Oreg. Antiseptic medicinal preparation. 248,048; Oct. 16; Serial No. 266,408; published July 31, 1928. Class 6.
Trippe, Barker & Co., New York, N. Y. Dresses for women and children. 248,088; Oct. 16; Serial No. 265,349; published July 10, 1928. Class 39.
Trippe, Barker & Co., New York, N. Y. Cotton piece goods. 248,379; Oct. 16. Class 42.
Tucker Duck and Rubber Company, Fort Smith, Ark. Folding chairs. 248,220; Oct. 16; Serial No. 260,600; published Aug. 7, 1928. Class 32.
Ughetta, Oduvald L. D., Somerville, N. J. Eggs. 248,062; Oct. 16; Serial No. 263,186; published July 31, 1928. Class 46.
Union Tank & Pipe Co., Los Angeles, Calif. Storage tanks, metal drums, and water towers. 248,206; Oct. 16; Serial No. 247,504; published Aug. 7, 1928. Class 2.
United Chemical Co., to Charles A. Nye, doing business as United Chemical Co., Minneapolis, Minn., successor. Liquid for destroying germs and insects. 71,616; renewed Dec. 8, 1928.
United Grape Products, Inc., Buffalo, N. Y. Grape juice. 248,147; Oct. 16; Serial No. 263,995; published Aug. 7, 1928. Class 45.
United States Lime Products Corporation, San Francisco, Calif. Hydrated lime. 248,341; Oct. 16; Serial No. 266,900; published July 24, 1928. Class 12.
United States Rubber Company, New York, N. Y. Sheet material. 248,035; Oct. 16; Serial No. 265,997; published July 24, 1928. Class 50.
Upjohn Company, The, Kalamazoo, Mich. Ointment. 248,197; Oct. 16; Serial No. 268,258; published Aug. 7, 1928. Class 6.
Utilities Corporation of Maryland, Washington, D. C. Dishwashing appliance. 248,321; Oct. 16; Serial No. 268,068; published Aug. 7, 1928. Class 23.
Valentine Laboratories, Incorporated. (See Walgreen Co.)
Vernet, Waldemar, New York, N. Y. Sponges. 248,146; Oct. 16; Serial No. 263,996; published July 24, 1928. Class 1.
Viking Tool and Machine Co., Inc., Brooklyn, N. Y. Dies, jigs, taps, wire-bundling machines, etc. 248,215; Oct. 16; Serial No. 253,968; published Aug. 7, 1928. Class 23.
Voneiff-Drayer Co., Baltimore, Md. Candy. 248,176; Oct. 16; Serial No. 268,656; published Aug. 7, 1928. Class 46.
Walcal Laboratories, Inc. (See Calajoe, Anthony J.)
Walgreen Co., also doing business as Valentine Laboratories, Incorporated, Chicago, Ill. Fluid for cigarette lighters. 248,312; Oct. 16; Serial No. 267,019; published Aug. 7, 1928. Class 6.
Wall-Keller-McKee Company, The, North Adams, Mass. Mufflers and men's neckties. 248,098; Oct. 16; Serial No. 265,245; published July 10, 1928. Class 39.
Waumpole, Henry K., and Company, Incorporated, Philadelphia, Pa. Nontoxic antiseptic solution. 248,179; Oct. 16; Serial No. 268,404; published Aug. 7, 1928. Class 6.
Waumpole, Henry K., and Company, Incorporated, Philadelphia, Pa. Cough mixture. 248,315; Oct. 16; Serial No. 267,021; published Aug. 7, 1928. Class 6.
Water Lock Company, The, Cincinnati, Ohio. Cement compound. 248,136–7; Oct. 16; Serial Nos. 265,508–9; published July 17, 1928. Class 12.
Waterman, L. E., Company, New York, N. Y. Writing inks. 248,327–31; Oct 16; Serial Nos. 267,909–13; published Aug. 7, 1928. Class 11.
Watervliet Tool Co., Inc., Albany, N. Y. Machine and hand reamers of all kinds and types. 248,349; Oct. 16. Class 23.
Wellington & Son, to Wellington Milling Company, Anderson, Ind., successor. Wheat flour. 71,903; renewed Dec. 22, 1928.

Wells, Ephraim S., assignor to William H. and George T. Wells, executors of the estate of Ephraim S. Wells, deceased, Jersey City, N. J. Poison for rats, mice, vermin, and insects. 70,030; renewed July 21, 1928.
Wesley, Edward, & Company, Cincinnati, Ohio. Haircombing liquid. 248,230; Oct. 16; Serial No. 266,500; published July 24, 1928. Class 6.
West Point Knitwear Mills. (See Rivkin, Morris I.)
West Virginia Southern Coal Company, Huntington, W. Va. Coal. 248,016; Oct. 16; Serial No. 266,289; published July 17, 1928. Class 1.
Whited, Oric O., doing business as International Fibre Company, Minneapolis, Minn. Peat. 248,072; Oct. 16; Serial No. 266,845; published July 24, 1928. Class 1.
Whitney-Eckstein Seed Co., Buffalo, N. Y. Lawn grass and field seeds. 248,029; Oct. 16; Serial No. 266,067; published July 17, 1928. Class 1.
Whittemore, Horance A., doing business as H. A. Whittemore & Co., Boston, Mass. Certain fishing tackle. 72,096; renewed Jan. 5, 1929.
Wickwire Spencer Steel Company, New York, N. Y. Reinforcing netting, concrete-road mesh, etc. 248,028; Oct. 16; Serial No. 266,068; published July 17, 1928. Class 12.
Wilckes Martin Wilckes Company, to Wilckes, Martin, Wilckes Co., Camden, N. J., and New York, N. Y., successor. Lampblack. 72,236; renewed Jan. 12, 1929.
Wilmur Neckwear Co., Inc., New York, N. Y. Neckties. 248,046; Oct. 16; Serial No. 265,710; published July 10, 1928. Class 39.
Wilson, Boston, doing business as Wilson's Stomach Powder Manufacturing Co., Oklahoma City, Okla. Stomach powder. 248,285; Oct. 16; Serial No. 257,496; published Aug. 7, 1928. Class 6.
Wright, James L., doing business as Charred Sticks Company, Atlanta, Ga. Charred sticks for purification of water, etc. 248,214; Oct. 16; Serial No. 254,021; published July 17, 1928. Class 50.
Wright Wire Company, Worcester, Mass., assignor, by mesne assignments, to Edward C. Bowers and Charles L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y. Wire picture cord. 67,804; renewed Feb. 18, 1928.
Wyoming Malt and Hops Supply Co. (See Cairns, Patrick.)
Young, Richard, Company, New York, N. Y. Leather. 248,067; Oct. 16; Serial No. 263,348; published July 3, 1928. Class 1.
Zimmerman, Simon R., doing business as Simon R. Zimmerman Co., Savannah, Mo. General tonic. 248,240; Oct. 16; Serial No. 265,079; published July 24, 1928. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alberta Candy Co., doing business as Alberta, San Francisco, San Francisco, Calif. Foursome. For Candy. 34,760; Oct. 16.
Anston, George Chicago, Ill. Stimulon. For a Pure-Food Drink. 34,761; Oct. 16.
Antiseptol Liquid Soap Company, Chicago, Ill. Nocosoap. For Liquid Toilet Soap. 34,762; Oct. 16.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Chiles Jalapeños. For Canned Chiles. 34,763; Oct. 16.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Chiles Jalapeños. For Canned Stuffed Chiles. 34,764; Oct. 16.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Chiles Jalapeños. For Canned Chiles. 34,765; Oct. 16.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Chilitos Serranos. For Canned Chiles. 34,766–7; Oct. 16.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Salsa Tabasco. For Chili Sauce. 34,768; Oct. 16.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Mole de Guajolote. For Canned Turkey. 34,769; Oct. 16.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Tlamole. For Sauce. 34,770; Oct. 16.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Pato Trigüero en Pipian. For Canned Duck. 34,771; Oct. 16.
Cortivo, O. Dal, doing business as Sanola Co., New York, N. Y. Sanola. For Candy Laxative. 34,772; Oct. 16.
Davis, A., Miami, Fla. Widow's Cracker. For Crackers. 34,773; Oct. 16.
Drackett Chemical Company, The, Cincinnati, Ohio. D. For Epsom Salt. 34,774; Oct. 16.
Ginger-Mint Julep Company, The, Baltimore, Md. Emerson's Ginger-Mint Gum. For Chewing Gum. 34,775; Oct. 16.
Gladness Bakeries Incorporated, St. Paul, Minn. Gladness. For Chocolate Layer Cake. 34,776; Oct. 16.
Goddard, Margaret, Portland, Oreg. Mrs. Goddard's Creamy Custard Powder. For Custard Powders. 34,777; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Wearwell. For Boxes. 34,778; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Wearwell Shoe Co. For Boxes. 34,779; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Strawbridge & Clothier. For Boxes. 34,780; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. The M. O'Neil Co. For Boxes. 34,781; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Fox Footwear. For Boxes. 34,782; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Dr. Fox's. For Boxes. 34,783; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Dr. Hunn's. For Boxes. 34,784; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Hornung's. For Boxes. 34,785; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Milby. For Boxes. 34,786; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. L. S. Ayres & Company. For Boxes. 34,787; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Mimnaugh's. For Boxes. 34,788; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Pediforme. For Boxes. 34,789; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. French Booterie. For Boxes. 34,790; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Bloom's. For Boxes. 34,791; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Columbia. For Boxes. 34,792; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Russell Williams. For Boxes. 34,793; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Nay's. For Boxes. 34,794; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Saks'. For Boxes. 34,795; Oct. 16.
Hoague-Sprague Corporation, Lynn, Mass. Milby. For Boxes. 34,796; Oct. 16.
Hoffman, Charles, New York, N. Y. Little Miss Twelv For Ladies' and Misses' Dresses. 34,797; Oct. 16.
Hogshead, Frank, Norfolk, Va. Electro. For Liniment. 34,798; Oct. 16.
Krasnow, J. S., Fresno, Calif. Smile. For Fresh Grapes. 34,799; Oct. 16.
Menasha Printing and Carton Company, Menasha, Wis. Moores & Ross. For Ice Cream. 34,800; Oct. 16.
Meyer, H. H., Packing Company, The, Cincinnati, Ohio. Partridge Creamery Butter. For Creamery Butter. 34,801; Oct. 16.
Nobscot Spring Water Co., Boston, Mass. Nobscot. For Ginger Ale. 34,802; Oct. 16.
Page Milling Co., The, Luray, Va. Star of the East. For Flour. 34,803; Oct. 16.
Rahayel, Charles A., doing business as Rahayel Chemical Company, Brooklyn, N. Y. Zoff. For Hand Soap Powder. 34,804; Oct. 16.
Sackett, Hubert, New York, N. Y. Sackett Junior Cigars De-Nicotined (Bulk of Nicotine Removed). For Junior Cigars. 34,805; Oct. 16.
Sanola Co. (See Cortivo, O. Dal.)
Strombon, C. O., Dos Palos, Calif. C. O. S. Auto Polish. For Auto Polish Preparation. 34,806; Oct. 16.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, Hoboken, N. J. Blue Band Velvet Pencils—Buy Your School Supplies Here No. 146. For Pencils. 11,263; Oct. 16.
Cannon, D. A., doing business as Cannon & Co., Sacramento, Calif. Makers of America's Finest Face Brick. For Brick. 11,264; Oct. 16.
Frederics, E., Inc., New York, N. Y. Frederics Vita-Tonic Compound Light and Medium Shades. For a Compound for Waving Hair. 11,265; Oct. 16.
Heinz, H. J., Company, Pittsburgh, Pa. Soft, Summer Sunshine. Deep, Cool Shadows. For Peanut Butter, Baked Beans, Chili Sauce, Stuffed Olives, Mustard, and Sweet Mixed Pickles. 11,266; Oct. 16.
Huston, Tom, doing business as Tom Huston Peanut Company, Columbus, Ga. The Stamp of Millions. For Toasted Peanuts. 11,267; Oct. 16.
Michigan Clay Products Corporation, Williamston, Mich. Autumn Leaf. For Bricks. 11,268; Oct. 16.
Tancill, Grace, St. Louis, Mo. Grace Tancill Two-Piece Crepe de Chine Capyll Model. For Dresses. 11,269; Oct. 16.
Wilcox, Cecil W., Kalamazoo, Mich. Wilcox Foot Balm. For Foot Powder. 11,270; Oct. 16.
Yates-American Machine Company, Beloit, Mich. Super Service Steel-More Cuts per Grind. For Knives for Woodworking Machines. 11,271; Oct. 16.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Advertising Golf Ball Corporation, New York, N. Y. Golf balls. 271,673; Oct. 16. Class 22.
American Handle Company, Jonesboro, Ark. Handles. 271,109; Oct. 16. Class 23.
American Optical Company, Southbridge, Mass. Ophthalmic mountings and parts therefor. 271,371; Oct. 16. Class 26.
American Shoe Polish Co., Chicago, Ill. Paste for cleaning automobiles and the like. 255,154; Oct. 16. Class 4.
American Soda Products Company. (See McGhee, James F.)
American Steel Pipe & Tank Company, Los Angeles, Calif. Metal underground storage tanks. 249,146; Oct. 16. Class 2.
Ardola Co., The. (See Caldwell, Albert E.)
Arnold Bros. Pickle & Preserve Co., Green Bay, Wis. Pickles. 271,227; Oct. 16. Class 46.
Artophone Corporation, doing business as Uniphonic Manufacturing Company, St. Louis, Mo. Phonograph. 268,904; Oct. 16. Class 36.
August, Joseph, doing business as August Bakery, Central Falls, R. I. Bread, cake, and pastry. 253,974; Oct. 16. Class 46.
Barber, W. H., Company, Minneapolis, Minn. Lubricating oils and greases. 270,622; Oct. 16. Class 15.
Baronet Mills, Inc., New York and College Point, N. Y. Powder puffs. 270,736; Oct. 16. Class 29.
Bauer, Charles W., St. Louis, Mo. Malt syrup. 270,951; Oct. 16. Class 46.
Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic lenses. 271,845; Oct. 16. Class 26.
Belden Manufacturing Company, Chicago, Ill. Electrical conductors. 265,252; Oct. 16. Class 21.
Big Diamond Mills Company, Minneapolis, Minn. Wheat offals. 236,110; Oct. 16. Class 46.
Bird Wing Commercial Aircraft Company, The, St. Joseph, Mo. Airplanes. 270,229; Oct. 16. Class 19.
Blancard & Company, Inc., New York, N. Y. Finger rings. 271,373; Oct. 16. Class 28.
Borgfeldt, Geo., & Co., New York, N. Y. Dolls. 269,444; Oct. 16. Class 22.
Boys' Magazine Publishing Co., Cincinnati, Ohio. Monthly periodical. 259,350; Oct. 16. Class 38.
Broun, Edwin. New York, N. Y. Blotters. 269,939; Oct. 16. Class 37.
Brown, William A., Philadelphia, Pa. Electric heating devices, lighting devices, etc. 265,946; Oct. 16. Class 21.
Bundy, Carl A., doing business as Carl A. Bundy Quill & Press, Los Angeles, Calif. Publication. 266,123; Oct. 16. Class 38.
Burdick Corporation, The, Milton, Wis. Therapeutic lamps. 269,632; Oct. 16. Class 44.
Bur-Mooda Remedy Company, Kansas City, Kans. Tonic. 269,574; Oct. 16. Class 6.
Burrell-Dugger Company, Indianapolis, Ind. Insecticide or preparation to kill lice. 279,875; Oct. 16. Class 6.
Butler Candles, Inc., Elgin, Ill. Candy. 271,429; Oct. 16. Class 46.
Caldwell, Albert E., doing business as The Ardola Co., Galesburg, Ill. Radio receiving sets. 253,136; Oct. 16. Class 21.
Carr Milling Company, The, Hamilton, Ohio. Wheat flour. 258,995; Oct. 16. Class 46.
Carrier, Lyman, Granger, Ind. Fertilizers and ingredients in fertilizers. 270,318; Oct. 16. Class 10.
Carter Dry Goods Co., Louisville, Ky. Textile blankets. 269,827; Oct. 16. Class 42.
Carter, Edward J., doing business as E-Z-Way Products Company, Los Angeles, Calif. Masking and stencil papers. 270,279; Oct. 16. Class 37.
Challenge Cream and Butter Association, Los Angeles, Calif. Unsweetened evaporated milk. 271,065; Oct. 16. Class 46.
Champagne Beverage Corp., New York, N. Y. Beverages. 260,715; Oct. 16. Class 45.
Chatterton & Son, Lansing, Mich., and Toledo, Ohio. Beans, split peas, and lentils. 265,777; Oct. 16. Class 46.
Clark Brothers Chewing Gum Co., Pittsburgh, Pa. Chewing gum. 266,416; Oct. 16. Class 46.
Clarksville Coal Company, Clarksville, Ark. Coal. 270,990; Oct. 16. Class 1.
Cleaning Products Company, The. (See Tyler, George E.)
Clover Mfg. Co., Norwalk, Conn. Silicon carbide. 268,483; Oct. 16. Class 1.
Colonial Braided Rug Co., Worcester, Mass. Braided rugs. 258,895; Oct. 16. Class 42.
Columbia Phonograph Company, Inc., Bridgeport, Conn. Phonographs or talking machines, parts and accessories therefor. 261,608; Oct. 16. Class 36.
Community Thrift Saving Company, The. (See Pritchard, Lewis C.)
Conejos County Vegetable Growers Cooperative Association, The, La Jara, Colo. Fresh vegetables. 271,922; Oct. 16. Class 46.
Consolidated Seed Co. (Not Inc.) (See Ostberg, John H.)
Corona Pen Company, Antioch and Chicago, Ill. Fountain pens. 270,017; Oct. 1. Class 37.
Coweta Fertilizer Company, Newman, Ga. Fertilizers. 269,093; Oct. 16. Class 10.
Curtiss Aeroplane and Motor Company, Inc., Buffalo and Garden City, N. Y. Aeroplanes. 270,465–6; Oct. 16. Class 19.
Dairy Made Ice Cream Company, assignor to Dairy Made Ice Cream Company, Inc., Paterson, N. J. Ice cream. 265,320; Oct. 16. Class 46.
Damrell Chemical Company, Modesto, Calif. Poisons. 270,538; Oct. 16. Class 6.
Danielson, Daniel B., doing business as "Tie-To" Insert Co., Milwaukee, Wis. Metal-lath hangers. 270,916; Oct. 16. Class 12.
Davenport-Brooks Corporation, Fernandina, Fla. Canned shrimp. 271,432; Oct. 16. Class 46.
Davis Welding & Manufacturing Company, The, Cincinnati, Ohio. Truck bodies. 270,467; Oct. 16. Class 19.
Dayton Liniment Company. (See Hussey, Harrie D.)
Deister Concentrator Company, The, Fort Wayne, Ind. Vibrating screens and concentrating tables. 271,233; Oct. 16. Class 23.
Delcroft Delicacies Inc., Syracuse, N. Y. Sandwich spread, mayonaise, etc. 267,759; Oct. 16. Class 46.
Delcroft Delicacies Inc., Syracuse, N. Y. Tomato mayonnaise. 267,760; Oct. 16. Class 46.
Deming & Gould Co., Chicago, Ill., and South Bellingham, Wash. Canned salmon. 267,639; Oct. 16. Class 46.
Deflect Appliance Company, Tenafly, N. J. Appliances for irrigating the colon of the human body. 268,273; Oct. 16. Class 44.
Devoe & Raynolds Co., Inc., New York, N. Y. Lacquers, varnishes, paint enamels, and mixed paints. 270,959; Oct. 16. Class 16.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper and tissue paper. 271,235; Oct. 16. Class 37.
Distribution & Warehousing Publications, Inc., New York, N. Y. Magazine. 270,173; Oct. 16. Class 38.
Dodge, Clarence S., also doing business as Dodge Plant Farms, Raymondville, Tex. Growing plants. 269,517; Oct. 16. Class 1.
Doumakes, J., doing business as Doumaks' Marshmallow Company, Los Angeles, Calif. Marshmallows. 267,941; Oct. 16. Class 46.
Drucker, Samuel B., doing business as Visa Company, New York, N. Y. Empty glass jars. 247,695; Oct. 16. Class 33.
Dual Duty Co., Alma, Mich. Vehicle extension units. 270,174; Oct. 16; Class 19.
E-Z-Way Products Company. (See Carter, Edward J.)
East Coast Distributing Co., Miami, Fla. Malt extracts. 271,173; Oct. 16. Class 46.
East Toledo Malt Store, Toledo, Ohio. Malt syrup. 266,520; Oct. 16. Class 46.
Eastern Coal Company, Chicago, Ill. Coal. 269,721; Oct. 16. Class 1.
Eastern Coal Company, Chicago, Ill. Coal. 270,118; Oct. 16. Class 1.
Edwards, Paul, doing business as Fan Tan Laboratories, Chicago, Ill. Soap. 271,479; Oct. 16. Class 4.
Emley, William S., Germantown, Philadelphia, Pa. Insect traps. 270,576; Oct. 16. Class 50.
Enterprise Aluminum Company, The, Massillon, Ohio. Coffeepots. 270,577; Oct. 16. Class 13.
Esmond Mills, The, Esmond, Smithfield, R. I. Textile blankets. 270,286; Oct. 16. Class 42.
Fabian Hedges, Inc., New York, N. Y. Chocolate syrup, fruit syrups, and flavoring extracts. 270,080; Oct. 16. Class 45.
Fair, The, Chicago, Ill. Suits, coats, pants, vests, etc 271,117; Oct. 16. Class 39.
Fan Tan Laboratories. (See Edwards, Paul.)
Federal Merchandise Company, Chicago, Ill. Motor-driven window ventilators. 268,920; Oct. 16. Class 34.
Fire-King Stoker Company, Indianapolis, Ind. Combined stoker and burner for coal. 261,806; Oct. 16. Class 34.
Firm Deutsche Milchwerke A.-G., Zwingenberg, Germany. Medicated plasters, dressings, etc. 262,300; Oct. 16. Class 6.
First National Pictures, Inc., New York, N. Y. Motion-picture films, etc. 266,922; Oct. 16. Class 26.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 270,543; Oct. 16. Class 42.
Foster, F. A., & Company, Incorporated, New York, N. Y. Piece goods. 270,324; Oct. 16. Class 42.
Frankart, Inc., New York, N. Y. Incense burners and candle holders. 265,533; Oct. 16. Class 34.

Franklin, H. H., Manufacturing Company, Syracuse, N. Y. Automobiles and structural parts thereof. 270,289; Oct. 16. Class 19.
Friedman, Hugo, doing business as The Hu-Friedy Mfg. Co., Chicago, Ill. Medical preparation. 271,026; Oct. 16. Class 6.
Gehlert, R. S., & Co., Detroit, Mich. Coffee. 269,952; Oct. 16. Class 46.
Gelfand, Simon, Los Angeles, Calif. Display stands for food products. 271,028; Oct. 16. Class 32.
General Motors Corporation, Detroit, Mich. Automobiles and structural parts. 270,329; Oct. 16. Class 19.
Glazo Company, The, Cincinnati, Ohio. Nail enamel, cuticle oil, etc. 270,587–8; Oct. 16. Class 6.
Globe Laboratories, Fort Worth, Tex. Fly spray. 266,461; Oct. 16. Class 6.
Goodwear Knitting Mills, Philadelphia, Pa. Swimming suits. 271,301; Oct. 16. Class 39.
Go-Pony Company, Milwaukee, Wis. Toy horse. 271,247; Oct 16. Class 22.
Gortz, Abraham, Brooklyn, assignor to Medico Health Products, Inc., Flushing, N. J. Syringes. 265,042; Oct. 16. Class 44.
Greene-Grignon Granite Company, Duluth, Minn. Memorials, monuments, grave markers, etc. 265,153; Oct. 16. Class 50.
Grossvater Malt Co. (See Moore, Joseph W.)
Hammond Typewriter Corporation, New York, N. Y. Typewriter machines. 243,942; Oct. 16. Class 23.
Hargrove's Magic Hair Restorer Co. (See Lenox, Jack.)
Health Products Corporation, Newark, N. J. Laxative chewing tablets. 267,656; Oct. 16. Class 6.
Hedges, Fabian, Inc., New York, N. Y. Candy, chocolate syrup, flavoring extracts, etc. 270,184; Oct. 16. Class 46.
Hetherington, Edwin, Cedar Rapids, Iowa. Teeter boards. 271,805; Oct. 16. Class 22.
Hillig, Frederick W., doing business as F. W. Hillig Company, New York, N. Y. Rayon and cotton bedspreads. 263,269; Oct. 16. Class 42.
Hillig, Frederick W., doing business as F. W. Hillig Company, New York, N. Y. Rayon bedspreads. 263,399–400; Oct. 16. Class 42.
Hills Brothers Company, The, New York, N. Y. Grapefruit juice. 272,029; Oct. 16. Class 45.
Hillside Cotton Mills, doing business as Valley Mills, Lagrange, Ga. Rugs of textile fabric. 258,468; Oct. 16. Class 42.
Hillside Cotton Mills, doing business as Valway Mills, Lagrange, Ga. Rugs. 259,361; Oct. 16. Class 42.
Hillyard Chemical Company, St. Joseph, Mo. Furniture-cleaning compound. 262,084; Oct. 16. Class 4.
Hope Knitting Co., Cohoes, N. Y. Knit underwear, bathing suits, etc. 266,425; Oct. 16. Class 39.
Horton Manufacturing Company, The, Bristol, Conn. Fishing rods. 271,604; Oct. 16. Class 22.
Hosiery Distributors Institute, Inc., New York, N. Y. Hosiery. 271,256; Oct. 16. Class 39.
Hu-Friedy Mfg. Co., The. (See Friedman, Hugo.)
Hughes-Keenan Company, The, Mansfield, Ohio. Direct-mounted tractor attachments. 264,235; Oct. 16. Class 23.
Hughes-Keenan Company, The, Mansfield, Ohio. Attachments for vehicle chassis. 264,822; Oct. 16. Class 23.
Hussey, Harrie D, doing business as Dayton Liniment Company, Dayton, Ohio. Liniment. 264,584; Oct. 16. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main and Berlin, Germany. Photographic papers. 263,816; Oct. 16. Class 26.
Iles-Ayars Publishing Co., Inc., Los Angeles, Calif. News magazine heading. 271,185; Oct. 16. Class 38.
Ingham, Thomas S., Carnarvon, North Wales. Medicinal preparation. 257,873; Oct. 16. Class 6.
International Feature Service, Inc., New York, N. Y. Newspaper cartoons. 260,390; Oct. 16. Class 38.
International Nickel Company, The, New York, N. Y. Nickel, nickel ingots, etc. 264,757; Oct. 16. Class 14.
Irvine Valencia Growers, Irvine, Calif. Fresh citrus fruits. 271,934; Oct. 16. Class 46.
James, Pat V., Memphis, Tenn. Medicinal preparation. 270,297; Oct. 16. Class 6.
Janszen Company, The, Cincinnati, Ohio. Coffee, canned fruits, canned vegetables, etc. 265,844; Oct. 16. Class 46.
Jeffrey Manufacturing Company, The, Columbus, Ohio. Excavating, elevating, and conveying machinery. 270,246; Oct. 16. Class 23.
Jermain-Giessner Co., Chicago, Ill. Powdered preparation soluble in water to impart softening and cleansing properties. 271,854; Oct. 16. Class 4.
Judd, H. L., Company, Inc., New York, N. Y. Curtain poles, brackets, cranes, etc. 261,259; Oct. 16. Class 13.
Kaesbach, Otto, Berlin, Germany. Medicinal preparation. 271,440; Oct. 16. Class 6.
Katagiri, Chihiro, New York, N. Y. Mechanical acrobatic toys. 271,897; Oct. 16. Class 22.
Kress, S. H., & Co., New York, N. Y. Fudge, patties, lollipops, etc. 255,917; Oct. 16. Class 46.
Kress, S. H., & Co., New York, N. Y. Sanitary napkins. 267,495; Oct. 16. Class 44.
Kretzschmar, Hans, doing business as Sterling Knitting Mills, Los Angeles, Calif. Knitted cravats, necktles, underwear, etc. 267,969; Oct. 16. Class 39.
Kurzrok, Max, & Isidore Helitzer, Inc., New York, N. Y. Silk and wool jersey dresses. 253,759; Oct. 16. Class 39.
La Porte Sash & Door Co., Inc., La Porte, Ind. Articles of building woodwork. 262,569; Oct. 16. Class 12.
Lenox, Jack, doing business as Hargrove's Magic Hair Restorer Co., Dallas, Tex. Hair tonic. 270,968; Oct. 16. Class 6.
Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. 265,483; Oct. 16. Class 42.
Lewin, Louis, Company, Chicago, Ill. Overalls. 271,259; Oct. 16. Class 39.
Limmer, Dr. Waldemar, Berlin, Germany. Medicines and pharmaceutical chemicals. 265,279; Oct. 16. Class 6.
Link Piano Company, Binghamton, N. Y. Musical instruments. 262,036; Oct. 16. Class 36.
Lowe Brothers Company, The, Dayton, Ohio. Linseed-oil house paint. 271,813; Oct. 16. Class 16.
Luft, George W., Company, Inc., The, Long Island City, N. Y. Lip stick, creme and compact rouge, day cream, etc. 266,547; Oct. 16. Class 6.
Maury-Cole Company, Memphis, Tenn. Coffee. 265,672; Oct. 16. Class 46.
McDonald Baking Co., Inc., Newark, N. J. Bread. 270,798; Oct. 16. Class 46.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candy. 271,939; Oct. 16. Class 46.
McGhee, James F., doing business as American Soda Products Company, Moorestown, N. J. Fertilizers. 265,391; Oct. 16. Class 10.
McMahen, Wm. H., Company, Philadelphia, Pa. Feathers in bulk. 271,071; Oct. 16. Class 1.
McRedmond, Thomas J. B., doing business as Nallay Products Company, Los Angeles, Calif. Preparation for exterminating moths and insects. 269,680; Oct. 16. Class 6.
Medico Health Products, Inc. (See Gortz, Abraham, assignor.)
Mercantile Adjuster Publishing Co., Inc., The, Chicago, Ill. Bimonthly publication. 271,137; Oct. 16. Class 38.
Mercantile Adjuster Publishing Co., Inc., The, Chicago, Ill. Publication. 271,704; Oct. 16. Class 38.
Mer Cough Syrup Co. (See Wilhelm, John.)
Merrill, Orson E., doing business as The Merrill Hospital Specialty Co., Edgerton, Wis. Medicinal applicators. 271,307; Oct. 16. Class 44.
Milwaukee Woven Wire Works, Milwaukee, Wis. Bed springs. 226,730; Oct. 16. Class 32.
Modern Utensils Corporation, New York, N. Y. Dishwashing and rinsing machines. 262,371; Oct. 16. Class 23.
Moionnier, Frederick E., doing business as Walla Walla Hothouse Vegetable Co., Walla Walla, Wash. Fresh vegetables, fresh fruits, etc. 266,389; Oct. 16. Class 46.
Moler, Van. B., Co., Inc., New York, N. Y. Short socks. 270,494; Oct. 16. Class 39.
Moore, Joseph W., doing business as Grossvater Malt Co., Youngstown, Ohio. Malt syrup. 269,906; Oct. 16. Class 46.
Moorman Mfg. Co., Chicago, Ill. Mineral feeds. 270,495; Oct. 16. Class 46.
Morehouse Mustard & Supply Co., Oakland, Calif. Mustard and peanut butter. 253,172; Oct. 16. Class 46.
Mountain City Mill Co., Inc., Chattanooga, Tenn. Wheat flour. 254,086–7; Oct. 16. Class 46.
Movado, Fabriques, La Chaux-de-Fonds, Switzerland. Watches and parts of watches. 270,836; Oct. 16. Class 27.
Mutual Stores, Inc., Oakland, Calif. Pure sage honey, relish spread, canned fish, etc. 264,498; Oct. 16. Class 46.
Nallay Products Company. (See McRedmond, Thomas J. B.)
National Tea Co., Chicago, Ill. Bakery products. 271,706; Oct. 16. Class 46.
Navassa Guano Company of Wilmington, Wilmington, N. C. Fertilizers. 269,125; Oct. 16. Class 10.
Naylor, Ford, New York, N. Y. Suits, coats, pants, etc. 266,213; Oct. 16. Class 39.
Nestlé's Food Company, Inc., New York, N. Y. Milk food, evaporated milk, and malted milk. 264,050; Oct. 16. Class 46.
Neustadter Brothers, San Francisco, Calif. Overalls. 247,339; Oct. 16. Class 39.
Nyal Company, Detroit, Mich. Compound for the treatment of coughs. 271,005; Oct. 16. Class 6.
Oakbrook Hosiery Mills, Inc., Reading, Pa. Hosiery. 265,116–17; Oct. 16. Class 39.
Oberman, D. M., Mfg. Co., New York, N. Y. Men's trousers. 220,792; Oct. 16. Class 39.
Oil-O-Rust-O Company, Albany, N. Y. Rust remover and preventative. 270,778; Oct. 16. Class 6.
Old Colony Envelope Co., Westfield, Mass. Mailing envelopes and greeting and announcement cards. 270,301; Oct. 16. Class 37.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ostberg, John H., doing business as Consolidated Seed Co. (Not Inc.). Chicago, Ill. Lawn-grass seed. 271,077; Oct. 16. Class 1.

Page, D. L., Company, Lowell, Mass. Salad dressing. 268,629; Oct. 16. Class 46.

Palmolive-Peet Company, The, Chicago, Ill. Soap. 269,688; Oct. 16. Class 4.

Park & Tilford, New York, N. Y. Preparation for taking the color out of all dyed material. 265,494; Oct. 16. Class 6.

Park Watch Import Co., Inc., Buffalo, N. Y. Watches. 270,780; Oct. 16. Class 27.

Patterson-Sargent Company, The, Cleveland, Ohio. Paints, varnishes, paint enamels, etc. 266,555; Oct. 16. Class 16.

Patterson-Sargent Company, The, Cleveland, Ohio. Paints, varnishes, and paint enamels. 267,788; Oct. 16. Class 16.

Paul, William, Beecher, Ill. Air shotguns and shells therefor. 264,530; Oct. 16. Class 9.

Peck & Peck, New York, N. Y. Artificial-camel-hair cloth. 271,311; Oct. 16. Class 42.

Pedersen, Johannes Th., New York, N. Y. Fork-tine straighteners. 271,770; Oct. 16. Class 23.

Penn Cigar Company of Pittsburgh, Pittsburgh, Pa. Cigars and stogies. 266,827; Oct. 16. Class 17.

Pepsi Cola Bottling Co. Inc. (See Rawley Bros.)

Phi Beta, Evanston, Ill. Fraternity pins and rings. 266,478; Oct. 16. Class 28.

Pi Beta Phi Settlement School of the Pi Beta Phi Fraternity, Gatlinburg, Tenn. Textile goods. 269,145; Oct. 16. Class 42.

Pilsen Products Co., Chicago, Ill. Malt syrups. 271,454; Oct. 16. Class 46.

Plymouth Cordage Company, Plymouth, Mass. Binder twine. 260,240; Oct. 16. Class 7.

Porter Clothing Co., Inc., New Orleans, La. Suits, overcoats, tuxedos, etc. 270,095; Oct. 16 Class 39.

Potash Pharmaproducts Company. (See Potashnikoff, Morris.)

Potashnikoff, Morris, doing business as Potash Pharmaproducts Company, Brooklyn, N. Y. Pharmaceutical preparation. 270,394–5; Oct. 16. Class 6.

Pritchard, Lewis C., doing business as The Community Thrift Saving Company, Parkersburg, W. Va. Charts. 265,317; Oct. 16. Class 38.

Radiail Company, New York, N. Y. Automatic regulators. 271,314; Oct. 16. Class 21.

Ransom Coal & Grain Company, Kansas City, Mo. Rabbit food. 270,507; Oct. 16. Class 46.

Rawley Bros., doing business as Pepsi Cola Bottling Co. Inc., Washington, D. C. Beverages. 263,789; Oct. 16. Class 45.

Richmond-Chase Company, San Jose, Calif. Canned and dried fruits, vegetables, and fish. 269,983; Oct. 16. Class 46.

Roper, Geo. D., Corporation, Rockford, Ill. Gas stoves and ranges. 270,611; Oct. 16. Class 34.

Roth, Goldman Co., Inc., New York, N. Y. Silk piece goods. 271,086; Oct. 16. Class 42.

Rudy-Patrick Seed Company, Kansas City, Mo. Alfalfa seed. 270,803; Oct. 16. Class 1.

Sächsisches Serumwerk A. G., Dresden, Germany. Drug for sick headaches, etc. 266,758; Oct. 16. Class 6.

St. Louis Sulphur & Chemical Co., St. Louis, Mo. Sulphur. 265,121; Oct. 16. Class 6.

Schering-Kahlbaum A. G., Berlin, Germany. Chemical product. 269,261; Oct. 16. Class 6.

Schering-Kahlbaum A. G., Berlin, Germany. Medicine. 269,262; Oct. 16. Class 6.

Schering-Kahlbaum A. G., Berlin, Germany. Medicine. 269,264; Oct. 16. Class 6.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 270,759; Oct. 16 Class 39.

Schnier-O'Connell Grain Co., Stockton, Calif. Grain bags. 267,514; Oct. 16. Class 2.

Sethness Company, Chicago, Ill. Beverages and syrups for making the same. 265,345; Oct. 16. Class 45.

Sheetz, L. M., doing business as Washum Products Co., Billings, Mont. Hand cleaner. 262,680; Oct. 16. Class 4.

Siegel, Rothschild-Gans Bros. Inc., Baltimore, Md. Umbrellas. 269,040; Oct. 16. Class 41.

Silica Products Co., Los Angeles, Calif. Portland cement. 269,801; Oct. 16. Class 12.

Simmons-Boardman Publishing Co., New York, N. Y. Magazine. 270,863; Oct. 16. Class 38.

Smiley-Heide, Inc., New York, N. Y. Rompers, creepers, and baby-boy dresses and suits. 270,979; Oct. 16. Class 39.

Smith, Travis O., Denver, Colo. Lubricating oils and greases. 267,807; Oct. 16. Class 15.

Southern Coal Company, Incorporated, Memphis, Tenn. Coal. 270,447; Oct. 16. Class 1.

Spooner, Inc., New York, N. Y. Face powders, talcum powders, perfumes, rouge, etc. 271,277; Oct. 16. Class 6.

Stanco Incorporated, Wilmington, Del., and New York, N. Y. Edible oils. 266,766; Oct. 16. Class 46.

Stanco Incorporated, Wilmington, Del., and New York, N. Y. Nose and throat spray. 268,641–2; Oct. 16. Class 6.

Stanco Incorporated, Wilmington, Del., and New York, N. Y. Insecticides, deodorants, and disinfectants. 268,643; Oct. 16. Class 6.

Stanco Incorporated, Wilmington, Del., and New York, N. Y. Mineral oil. 269,921–2; Oct. 16. Class 6.

Sterling Knitting Mills. (See Kretzschmar, Hans.)

Straban & Co., Philadelphia, Pa. Hosiery. 271,203; Oct. 16. Class 39.

Superior Chemical Company, Inc., Chicago, Ill. Solutions, compounds, and elements thereof. 259,826; Oct. 16. Class 6.

Sutter Packing Company, Mayfield, Calif. Canned fruits. 270,149–50; Oct. 16. Class 46.

Swan-Finch Oil Corporation, New York, N. Y. Lubricating oils and greases. 271,278; Oct. 16. Class 15.

Taylor Brothers Manufacturing Corporation, Elkhart, Ind. Tool boxes. 270,945; Oct. 16. Class 2.

"Tie-To" Insert Co. (See Danielson, Daniel B.)

Touraine Glove Company, Inc., Boston, Mass. Hosiery. 270,061; Oct. 16. Class 39.

Town Talk Sandwich Shops, Inc., Wilmington, Del. Sandwiches. 271,093; Oct. 16. Class 46.

Traun, Dr. Heinr. & Söhne, vormals Harburger Gummi-Kamm-Compagnie, Hamburg, Germany. Smoker's supplies. 262,978; Oct. 16. Class 8.

Traun, Dr. Heinr. vormals Harburger Gummi-Kamm-Compagnie, Hamburg, Germany. Electrical commodities or parts thereof. 262,980; Oct. 16. Class 21.

Tyler, George E., doing business as The Cleaning Products Company, Denver, Colo. Hand soap. 271,951; Oct. 16. Class 4.

Uddeholms Aktiebolag, Uddeholm, Sweden. Iron and steel. 263,236; Oct. 16. Class 14.

Union Fork & Hoe Company, The, Columbus, Ohio. Fish forks, ballast works, lawn rakes, etc. 266,229; Oct. 16. Class 23.

Uniphonic Manufacturing Company. (See Artophone Corporation.)

United Profit-Sharing Corporation, New York, N. Y. Premium coupons. 268,827; Oct. 16. Class 38.

Valley Mills. (See Hillside Cotton Mills.)

Valway Mills. (See Hillside Cotton Mills.)

Vaughan Novelty Manufacturing Co., Chicago, Ill. Siphon. 270,732; Oct. 16. Class 13.

Veldown Company, Inc., New York, N. Y. Wadding, stuffing or packing materials. 266,770; Oct. 16. Class 1.

Vesta Gas Range and Manufacturing Co., Chattanooga, Tenn. Ranges and stoves. 270,813; Oct. 16. Class 34.

Vinci Carburetor Aktieboing, Stockholm, Sweden. Carburetors. 262,433; Oct. 16. Class 23.

Visa Company. (See Drucker, Samuel B.)

Wadsworth Watch Case Company, The, Dayton, Ky. Bracelets and watch bands. 271,216; Oct. 16. Class 28.

Walla Walla Hothouse Vegetable Co. (See Mojonnier, Frederick E.)

Wall-Streeter Shoe Co., North Adams, Mass. Shoes. 265,743; Oct. 16. Class 39.

Washum Products Co. (See Sheetz, L. M.)

Weil Clothing Co., St. Louis, Mo. Men's outer wearing apparel. 241,973; Oct. 16. Class 39.

Wholesale Typewriter Company, The, New York, N. Y. Remanufactured and rebuilt typewriters and accessories. 264,400; Oct. 16. Class 23.

Wilhelm, John, doing business as Mer Cough Syrup Co., Chicago, Ill. Medicinal compound. 271,223; Oct. 16. Class 6.

Worthy Manufacturing Company, Chicago, Ill. Shirts. 268,949; Oct. 16. Class 39.

Yawman and Erbe Mfg. Co., Rochester, N. Y. Filing equipment. 270,684; Oct. 16. Class 32.

York Heating & Ventilating Corporation, Bridgeport and Philadelphia, Pa. Radiators, heat-diffusing units, etc., 262,499–500; Oct. 16. Class 34.

Zenith Produce Co., Duluth, Minn. Butter and eggs. 260,205; Oct. 16. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Chamois. Gulf & West Indies Co. 248,311; Oct. 16; Serial No. 267,045; published July 21, 1928.

Coal. Clover-Coal Company. 248,208; Oct. 16; Serial No. 245 894; published July 24, 1928.

Coal. Delaware, Lackawanna & Western Coal Company. 248,219; Oct. 16; Serial No. 260,812; published June 5, 1928.

Coal. Galloway Coal Company. 248,168; Oct. 16; Serial No. 264,226; published July 10, 1928.

Coal. W. N. Jennings. 248,301; Oct. 16; Serial No. 267,198; published July 24, 1928.

Coal. Kalbaugh Coal Company. 248,031; Oct. 16; Serial No. 266,032; published July 10, 1928.

Coal. Mitchell & Dillon Coal Company. 248,205; Oct. 16; Serial No. 248,782; published July 10, 1928.

Coal. New York Coal Company. 71,512; renewed Dec. 1, 1928.

Coal. Old Ben Coal Corporation. 248,361; Oct. 16.

Coal. Pittsburgh Coal Company. 248,017; Oct. 16; Serial No. 266,266; published July 24, 1928.

Coal. West Virginia Southern Coal Company. 248,016; Oct. 16; Serial No. 266,289; published July 17, 1928.

Cotton. Auerbach Company. 248,255; Oct. 16; Serial No. 264,550; published July 17, 1928.

Flowers. J. Frederick Leary. 248,249; Oct. 16; Serial No. 264,761; published July 24, 1928.

Furs, Artificial. H. Berger. 248,073; Oct. 16; Serial No. 266,782; published July 10, 1928.

Grass and field seeds, Lawn-. Whitney-Eckstein Seed Co. 248,079; Oct. 16; Serial No. 266,067; published July 17, 1928.

Ice products. Knickerbocker Ice Company. 248,354; Oct. 16.

Kennel bedding and sawdust. George C. Brown & Company. 248,243; Oct. 16; Serial No. 265,032; published July 10, 1928.

Leather. Fried-Lang Leather Co. 248,079; Oct. 16; Serial No. 266,726; published July 10, 1928.

Leather. Richard Young Company. 248,067; Oct. 16; Serial No. 263,348; published July 3, 1928.

Leather, chamois leather, and skins. La Maroquinerie Nationale, Soc. Ame. 248,112; Oct. 16; Serial No. 259,498; published July 24, 1928.

Leathers. Hartmann Bros. Leather Co. 248,115; Oct. 16; Serial No. 266,660; published July 10, 1928.

Ore, Chrome. E. J. Lavino and Company. 248,118; Oct. 16; Serial No. 266 635; published July 24, 1928.

Peat. O. O. Whited. 248,072; Oct. 16; Serial No. 266,845; published July 24, 1928.

Plants and flowers. S. J. Hilscher. 248,128; Oct. 16; Serial No. 265,644; published July 17, 1928.

Plants, Strawberry. F. C. Stahelin & Son. 248,125; Oct. 16; Serial No. 265,702; published July 10, 1928.

Potatoes, Seed. Laramie County Certified Seed Potato Growers Association. 248,240; Oct. 16; Serial No. 264,803; published July 17, 1928.

Pulp, Bleached and unbleached chemical. Cornstalk Products Company. 248,135; Oct. 16; Serial No. 265,524; published July 31, 1928.

Sand, clay, and various grades of stone. National Stone Company. 248,166; Oct. 16; Serial No. 264,529; published July 10, 1928.

Seeds. Farmer Seed & Nursery Co. 248,295; Oct. 16; Serial No. 255,168; published Nov. 29, 1928.

Seeds, Field. R. H. Points. 248,093; Oct. 16; Serial No. 265,294; published July 10, 1928.

Silk, Raw. Gunmaken Raw Silk Corporation of America. 248,153; Oct. 16; Serial No. 263,603; published July 3, 1928.

Skins, Tanned sheep and goat. Angus, Jordan & Exner Limited. 248,027; Oct. 16; Serial No. 266,073; published July 10, 1928.

Spar, Heavy. Gewerkschaft Auguste. 248,055; Oct. 16; Serial No. 262,615; published July 10, 1928.

Sponges. W. Vernet. 248,146; Oct. 16; Serial No. 263,996; published July 24, 1928.

CLASS 2.

Aquariums and flower holders. Frankart Inc. 248,229; Oct. 16; Serial No. 266,522; published Aug. 7, 1928.

Bags, Fabric. F. C. Flint. 248,103; Oct. 16; Serial No. 267,562; published Aug. 7, 1928.

Protector and container. M. Blunt. 248,053; Oct. 16; Serial No. 261,482; published Aug. 7, 1928.

Tanks, metal drums, and water towers, Storage. Union Tank & Pipe Co. 248,206; Oct. 16; Serial No. 247,504; published Aug. 7, 1928.

CLASS 4.

Cleaner, Dry. Standard Drug Company. 248,365; Oct. 16.

Cleaning and polishing preparations for leather and metals, etc. G. Kroner. 248,201; Oct. 16; Serial No. 250,924; published June 12, 1928.

Medicines, medicinal specialties, and articles for the toilet. Oberhausser & Landauer. 31,590; renewed May 24, 1928.

Soap, Skin. W. Finkel. 248,369; Oct. 16.

CLASS 6.

Alteratives, analgesics, anaphrodisiacs, etc. Norwich Pharmacal Company. 248,261; Oct. 16; Serial No. 267,785; published July 24, 1928.

Antiseptic douche. Edward J. Moore Sons, Inc. 248,069; Oct. 16; Serial No. 266,872; published Aug. 7, 1928.

Astringent. Parke, Davis & Company. 248,114; Oct. 16; Serial No. 266,681; published July 24, 1928.

Astringents, bleach and cold cream, dry rouge, etc. M. M. Fleron & Son, Inc. 248,198; Oct. 16; Serial No. 268,278; published Aug. 7, 1928.

Blood purifier. A. J. Calajoe. 248,061; Oct. 16; Serial No. 263,070; published Aug. 7, 1928.

Chemical product for denaturing alcohol. Kay Laboratories, Inc. 248,309–10; Oct. 16; Serial Nos. 267,060–61; published Aug. 7, 1928.

Chemical reagents. Colorado Refining & Research Corp. 248,195; Oct. 16; Serial No. 268,271; published Aug. 7, 1928.

Chemicals, Heavy. Consolidated Rendering Company. 248,320; Oct. 16; Serial No. 268,082; published Aug. 7, 1928.

Chlorhydrate of metnamino stovaine. Les Etablissements Poulenc Freres. 248,308; Oct. 16; Serial No. 267,066; published July 24, 1928.

Combustible package containing a chemical. C. V. Pohlson. 248,231; Oct. 16; Serial No. 266 479; published July 24, 1928.

Compound, Liquid. C. M. Lattimore. 248,371; Oct. 16.

Compound, Waterproofing. Rainized Process Ltd. 248,307; Oct. 16; Serial No. 267,079; published July 24, 1928.

Cough drops. A. J. Bockhold. 248,297; Oct. 16; Serial No. 267,231; published July 24, 1928.

Cough mixture. Henry K. Wampole and Company. 248,315; Oct. 16; Serial No. 267,021; published Aug. 7, 1928.

Creams, lotions, astringents, etc., Face. Primrose House, Inc. 248,247; Oct. 16; Serial No. 264,845; published Aug. 7, 1928.

Deodorant. Geo. C. V. Fesler Company. 248,317; Oct. 16; Serial No. 268,152; published July 31, 1928.

Embalming fluid. Steril Manufacturing Company. 248,266; Oct. 16; Serial No. 267,673; published Aug. 7, 1928.

Emmenagogue. H. C. Jenkins. 248,009; Oct. 16; Serial No. 266,086; published July 31, 1928.

Fluid for cigarette lighters. Walgren Co. 248,312; Oct. 16; Serial No. 267,019; published Aug. 7, 1928.

Germicides, Hog-conditioner. C. Spinharney. 248,089; Oct. 16; Serial No. 265,346; published Aug. 7, 1928.

Henna. J. L. Hopkins & Co. 248,339; Oct. 16; Serial No. 266,939; published Aug. 7, 1928.

Incense. K. R. H. Adolphus. 248,239; Oct. 16; Serial No. 265,132; published July 24, 1928.

Insecticides. Commercial Petroleum Company. 248,334; Oct. 16; Serial No. 268,355; published Aug. 7, 1928.

Insecticides. A. H. Garland. 248,097; Oct. 16; Serial No. 265,268; published Aug. 7, 1928.

Laxative. Associated Laboratories, Inc. 248,284; Oct. 16; Serial No. 257,503; published Jan. 10, 1928.

Laxative. H. M. Landau. 248,271; Oct. 16; Serial No. 267,591; published July 24, 1928.

Laxative compound. Sterling Products (Incorporated). 248,010; Oct. 16; Serial No. 266,407; published Aug. 7, 1928.

Laxatives, Candy-mint. A. M. Karlinsky. 248,049; Oct. 16; Serial No. 261,063; published July 31, 1928.

Lime, Clorinated. Pennsylvania Salt Manufacturing Company. 248,083; Oct. 16; Serial No. 265,400; published July 17, 1928.

Liniment, medical preparations for animals and poultry, etc. A. Aarons Co. 248,092; Oct. 16; Serial No. 265,309; published Aug. 7, 1928.

Liquid for destroying germs and insects. United Chemical Co. 71,616; renewed Dec. 8, 1928.

Liquid fuel. Gas Grain Treater Co. 248,281; Oct. 16; Serial No. 258,523; published July 24, 1928.

Liquid, Hair-combing. Edward Wesley & Company. 248,230; Oct. 16; Serial No. 266,500; published July 24, 1928.

Lotion and cleanser for the skin, Toilet. Petroleum Derivatives Company. 248,066; Oct. 16; Serial No. 263,345; published July 24, 1928.

Lotion, Face. H. Sobel. 248,183; Oct. 16; Serial No. 267,869; published July 31, 1928.

Lotion for the skin and complexion. A. S. Hinds Co. 248,059; Oct. 16; Serial No. 262,849; published Aug. 7, 1928.

Lotion, Hand. Lallafleur, Inc. 248,264; Oct. 16; Serial No. 267,711; published Aug. 7, 1928.

Malt extract for medicinal use. M. A. Keenan & Sons. 248,161; Oct. 16; Serial No. 267,362; published Aug. 7, 1928.

Medical preparations, Alkalizing. W. L. Thompson. 248,342; Oct. 16; Serial No. 266,898; published July 24, 1928.

Medicated malt product. British Drug Houses, Limited. 248,338; Oct. 16; Serial No. 266,971; published July 24, 1928.

Medicated oils and ointments. J. McKee. 248,222; Oct. 16; Serial No. 260,455; published July 24, 1928.
Medicinal compound. Dr. N. Graham & Co. 248,158; Oct. 16; Serial No. 263,464; published Aug. 7, 1928.
Medicinal preparation. J. A. Colbert. 248,333; Oct. 16; Serial No. 268,354; published Aug. 7, 1928.
Medicinal relief. Mitex Products Co. 248,253; Oct. 16; Serial No. 264,694; published July 24, 1928.
Medicinal teas. S. Gatkowski. 248,370; Oct. 16.
Medicine and a saline cathartic. Proprietary. Occy-Crystine Corporation. 248,095; Oct. 16; Serial No. 265,287; published Aug. 7, 1928.
Medicines. Acme Products Limited. 248,117; Oct. 16; Serial No. 266,637; published July 24, 1928.
Medicines, Dog. E. W. Sharland. 248,120; Oct. 16; Serial No. 266,560; published Aug. 7, 1928.
Metal surface finish or plating. Milwaukee Flush Valve Company. 248,111; Oct. 16; Serial No. 259,744; published Feb. 28, 1928.
Nontoxic antiseptic solution. Henry K. Wampole and Company. 248,179; Oct. 16; Serial No. 268,404; published Aug. 7, 1928.
Ointment. Upjohn Company. 248,197; Oct. 16; Serial No. 268,258; published Aug. 7, 1928.
Ointments. B. Kovach. 248,156; Oct. 16; Serial No. 267,262; published Aug. 7, 1928.
Perfumes, essential oils, Artificial and synthetical. Ste. Ame M. Naef & Cie. 248,299–300; Oct. 16; Serial Nos. 267,215–6; published July 31, 1928.
Pharmaceutical preparation. F. A. Diaz. 248,169; Oct. 16; Serial No. 264,223; published July 24, 1928.
Pharmaceutical preparation. R. W. Mirgeler. 248,020; Oct. 16; Serial No. 266,211; published July 24, 1928.
Poison for rats, mice, etc. E. S. Wells. 70,030; renewed July 21, 1928.
Powder and a remedy for the treatment of corns, bunions, and callouses, Foot. G. J. Katz. 248,332; Oct. 16; Serial No. 267,894; published July 31, 1928.
Powder, deodorant cream, etc., Depilatory. A. C. Croff. 248,337; Oct. 16; Serial No. 266,977; published Aug. 7, 1928.
Powder for use as a prophylactic, antiseptic, and deodorant. W. J. Poulin. 248,344; Oct. 16; Serial No. 266,880; published Aug. 7, 1928.
Powder, Stomach. B. Wilson. 248,285; Oct. 16; Serial No. 257,496; published Aug. 7, 1928.
Powder, Tooth. J. A. Pettifer. 248,290; Oct. 16; Serial No. 256,301; published Aug. 7, 1928.
Powder, Tooth. Saltine Company. 248,044; Oct. 16; Serial No. 265,810; published July 24, 1928.
Powders and rouges, Face. C. A. Bucher. 248,170; Oct. 16; Serial No. 264,221; published July 17, 1928.
Powders, face creams, rouges, pomades, etc., Face. Godet Inc. 248,212; Oct. 16; Serial No. 219,892; published Nov. 3, 1925.
Preparation, Antiseptic medicinal. C. T. Trengove. 248,048; Oct. 16; Serial No. 266,408; published July 31, 1928.
Preparation for bleaching and removing stains. Three Sisters. 248,024; Oct. 16; Serial No. 266,111; published July 31, 1928.
Preparation for destroying moth and moth larvæ. Cenol Company. 248,325; Oct. 16; Serial No. 268,028; published Aug. 7, 1928.
Preparation for hair restoring. W. J. Daly. 248,318; Oct. 16; Serial No. 268,144; published Aug. 7, 1928.
Preparation for neutralizing the odor of nicotine and overcoming tobacco-breath odors and aftertaste of smoking. Bio-Labro Products, Inc. 248,250; Oct. 16; Serial No. 264,750; published Aug. 7, 1928.
Preparation for rheumatism, etc. Gamadin Laboratories, Inc. 248,163; Oct. 16; Serial No. 267,358; published July 24, 1928.
Preparation for the treatment of anemia, etc. Cole Chemical Company. 248,180; Oct. 16; Serial No. 268,587; published Aug. 7, 1928.
Preparation for the treatment of pyorrhea. C. S. Phillips. 248,080; Oct. 16; Serial No. 266,684; published July 24, 1928.
Preparation for the treatment of skin diseases. Angelina Sacco. 248,267; Oct. 16; Serial No. 267,670; published July 24, 1928.
Preparation for treating pains. J. P. Horgan. 248,123; Oct. 16; Serial No. 266,539; published July 24, 1928.
Preparation for use as a metal-surface finish or plating. Chromeplate, Inc. 248,373–4; Oct. 16.
Preparation to allay irritation of the throat. Bio-Labro Products, Inc. 248,251; Oct. 16; Serial No. 264,749; published Aug. 7, 1928.
Preparation used in the treatment of neuralgia and as a febrifuge. G. L. Guillevic. 248,272; Oct. 16; Serial No. 267,575; published July 24, 1928.
Preparation used in the treatment of rheumatism, arthritis, etc. Farastan Company. 248,164; Oct. 16; Serial No. 267,355; published July 24, 1928.
Preparations for removing carbon. Prest-O-Lite Company. 72,203; renewed Jan. 5, 1929.
Radiopaque diagnostic preparation. Davies, Rose & Co. Ltd. 248,070; Oct. 16; Serial No. 266,853; published July 24, 1928.
Refrigerants or liquid refrigerating mediums. Carrier Engineering Corporation. 248,155; Oct. 16; Serial No. 267,296; published July 31, 1928.
Salt. Ohio Salt Company. 248,268; Oct. 16; Serial No. 267,663; published July 17, 1928.
Salve. A. C. Clark Company. 248,326; Oct. 16; Serial No. 267,934; published Aug. 7, 1928.
Shampoo. V. Monaco. 248,232; Oct. 16; Serial No. 266,454; published July 24, 1928.
Shampoo oil. Reliable Products Co. 248,119; Oct. 16; Serial No. 265,564; published Aug. 7, 1928.
Solution for the treatment of rheumatism and other blood diseases. P. H. Potter & Sons, Inc. 248,259; Oct. 16; Serial No. 267,855; published July 24, 1928.
Sulphur. E. H. Anderson. 248,074; Oct. 16; Serial No. 266,779; published July 24, 1928.
Sulphur. E. H. Anderson. 248,076; Oct. 16; Serial No. 266,777; published July 24, 1928.
Suppositories, Female. F. E. Lawrence. 248,367; Oct. 16.
Surgical lubricant. Parke, Davis & Company. 248,113; Oct. 16; Serial No. 266,682; published July 24, 1928.
Tablets. H. L. Haag. 248,216; Oct. 16; Serial No. 260,999; published July 24, 1928.
Tablets. Liverogen Company. 248,078; Oct. 16; Serial No. 266,737; published July 24, 1928.
Toilet cream. W. R. C. Ashby. 248,182; Oct. 16; Serial No. 267,885; published July 31, 1928.
Therapeutic bath compounds. Chemical Surgery Co. 248,280; Oct. 16; Serial No. 258,796; published July 31, 1928.
Therapeutic nontoxic, nonirritant, nonpoisonous liquid. General Research Laboratories, Inc. 248,296; Oct. 16; Serial No. 267,250; published July 31, 1928.
Tonic. Sharp & Dohme, Incorporated. 248,011; Oct. 16; Serial No. 266,405; published July 24, 1928.
Tonic, Alterative. Anderson Drug Company. 248,087; Oct. 16; Serial No. 265,355; published Aug. 7, 1928.
Tonic and mild laxative, Oil for use as a. E. C. Mason. 248,026; Oct. 16; Serial No. 266,088; published July 24, 1928.
Tonic and preparation for treating the hair and scalp, Hair. F. Sigmund. 248,148; Oct. 16; Serial No. 263,972; published Aug. 7, 1928.
Tonic, General. S. R. Zimmerman. 248,240; Oct. 16. Serial No. 265,079; published July 24, 1928.
Tonic, Hair. I. O. Goldstein. 248,273; Oct. 16; Serial No. 267,574; published July 24, 1928.
Tonic, Hair. Pinaud Incorporated. 248,171–3; Oct. 16; Serial Nos. 264,193–5; published July 17, 1928.
Tonic, Hair. F. Ad. Richter & Co. of New York. 248,199; Oct. 16; Serial No. 268,309; published Aug. 7, 1928.
Tonic, Medicinal. Cooper Laboratories, Inc. 248,263; Oct. 16; Serial No. 267,757; published July 24, 1928.
Tonic, Poultry. V. L. Ford. 248,323; Oct. 16; Serial No. 268,033; published July 31, 1928.
Tooth paste. Lactona Company. 248,109; Oct. 16; Serial No. 267,429; published July 24, 1928.
Tooth pastes. Cavendish Chemical Corp. 248,258; Oct. 16; Serial No. 268,771; published Aug. 7, 1928.
Treatment of infections of the sinuses of the nose and throat. E. Morrish. 248,106; Oct. 16; Serial No. 267,438; published July 24, 1928.

CLASS 7.

Cord, Wire picture. Wright Wire Company. 67,804; renewed Feb. 18, 1928.
Wire rope and cables. American Steel & Wire Company of New Jersey. 71,585; renewed Dec. 1, 1928.

CLASS 10.

Fertilizers. E. H. Anderson. 248,075; Oct. 16; Serial No. 266,778; published Aug. 7, 1928.

CLASS 11.

Carbon blacks. Peerless Carbon Black Company. 31,818; renewed July 19, 1928.
Inks. J. S. & B. Baker. 248,023; Oct. 16; Serial No. 266,185; published Aug. 7, 1928.
Inks, Writing. L. E. Waterman Company. 248,327–31; Oct. 16; Serial Nos. 267,909–13; published Aug. 7, 1928.
Inks, Writing and drawing. I. G. Farbenindustrie Aktiengesellschaft. 248,021–2; Oct. 16; Serial Nos. 266,196–7; published Aug. 7, 1928.

CLASS 12.

Boards and irregular shapes pressed from mixtures of various fibers and bonding material, Fiber. Fiberfraks Incorporated. 248,221; Oct. 16; Serial No. 260,561; published May 22, 1928.
Borders, strips, and flooring of wood, Walnut. R. E. Crotty. 248,252; Oct. 16; Serial No. 264,716; published July 31, 1928.
Brick, Building. Alabama Brick & Tile Co. 248,340; Oct. 16; Serial No. 266,905; published July 31, 1928.
Building materials. Societe Anonyme Eternit Emaille. 248,052; Oct. 16; Serial No. 261,331; published July 17, 1928.
Cement, Building. Missouri Portland Cement Company. 248,012; Oct. 16; Serial No. 266,388; published July 31, 1928.
Cement, Building. Missouri Portland Cement Company. 248,013; Oct. 16; Serial No. 266,387; published July 24, 1928.
Cement compound. Water Lock Company. 248,136–7; Oct. 16; Serial Nos. 265,508–9; published July 17, 1928.

Cement paste colors, hardening and waterproofing liquid, etc. National Varnish Company's Chemical Division, Inc. 248,202; Oct. 16; Serial No. 252,271; published July 10, 1928.
Cement, Plastic. Paraffine Companies, Inc. 248,211; Oct. 16; Serial No. 229,699; published July 10, 1928.
Cold patch and bituminous material. Good Roads Company. 248,141; Oct. 16; Serial No. 265,432; published July 24, 1928.
Concrete. General Material Company. 248,096; Oct. 16; Serial No. 265,269; published July 10, 1928.
Construction material. Schumacher Wall Board Corporation. 248,241; Oct. 16; Serial No. 265,070; published July 24, 1928.
Fibre, insulating, etc., board. Masonite Corporation. 248,040; Oct. 16; Serial No. 265,873; published July 17, 1928.
Joint paste. W. R. Thurston. 248,283; Oct. 16; Serial No. 257,645; published July 3, 1928.
Lath, Expanded-metal. Berger Manufacturing Company. 248,132; Oct. 16; Serial No. 265,612; published July 24, 1928.
Lime, Finishing. Gibsonburg Lime Products Company. 248,228; Oct. 16; Serial No. 266,526; published July 24, 1928.
Lime, Hydrated. United States Lime Products Corporation. 248,341; Oct. 16; Serial No. 266,900; published July 24, 1928.
Lime, Mason's. Gibsonburg Lime Products Company. 248,124; Oct. 16; Serial No. 266,527; published July 24, 1928.
Lime plaster. National Lime & Stone Company. 248,287; Oct. 16; Serial No. 257,112; published July 10, 1928.
Liquid for making cement waterproof. M. C. Pierce. 248,014; Oct. 16; Serial No. 266,330; published July 24, 1928.
Lumber. Harrison Lumber Company. 248,068; Oct. 16; Serial No. 263,392; published July 3, 1928.
Mantelpieces. Wm. H. Jackson Company. 248,167; Oct. 16; Serial No. 264,308; published July 24, 1928.
Netting, concrete-road mesh, etc., Reinforcing. Wickwire Spencer Steel Company. 248,028; Oct. 16; Serial No. 226,068; published July 17, 1928.
Roofing, Composition. H. H. Honigbaum. 248,288; Oct. 16; Serial No. 257,066; published July 17, 1928.
Roofing compound. L. Michael. 248,110; Oct. 16; Serial No. 259,963; published July 17, 1928.
Roofing, Prepared roll. Logan-Long Company. 248,065; Oct. 16; Serial No. 263,275; published July 24, 1928.
Sawmill products. Capilano Timber Co. 248,144; Oct. 16; Serial No. 264,079; published July 24, 1928.
Shingles, Asphaltic composition roofing. Flintkote Company. 248,265; Oct. 16; Serial No. 267,703; published July 24, 1928.
Shingles, Asphaltic composition roofing. Flintkote Company. 248,275; Oct. 16; Serial No. 267,571; published July 31, 1928.
Shingles, Asphaltic composition roofing. Flintkote Company. 248,276; Oct. 16; Serial No. 267,569; published July 24, 1928.
Shingles, Asphaltic composition roofing. Flintkote Company. 248,277; Oct. 16; Serial No. 267,568; published July 31, 1928.
Shingles, Asphaltic composition roofing. Flintkote Company. 248,278; Oct. 16; Serial No. 267,566; published July 31, 1928.
Shingles, Asphaltic composition roofing. Flintkote Company. 248,101–2; Oct. 16; Serial Nos. 267,563–4; published July 24, 1928.
Shingles, Asphaltic composition roofing. Flintkote Company. 248,336; Oct. 16; Serial No. 267,565; published July 31, 1928.
Strips of flexible material, Leather. Freydberg Brothers, Incorporated. 248,274; Oct. 16; Serial No. 267,572; published July 24, 1928.
Stucco, Dry. Mayflower Stucco Company. 248,237; Oct. 16; Serial No. 265,161; published July 10, 1928.
Tile. C. Pardee Works. 248,042; Oct. 16; Serial No. 265,854; published July 10, 1928.

CLASS 13.

Brackets for hangers, mirrors, and shelves, Portable vacuum-cup. Super Novelty Company. 248,226; Oct. 16; Serial No. 260,054; published Aug. 7, 1928.
Chains and chain links. Link-Belt Company. 248,382; Oct. 16.
Drains, metal gates, etc., Metal gutter and manger. James Manufacturing Company. 248,292; Oct. 16; Serial No. 256,193; published Aug. 7, 1928.
Gates, Flume. Andersen Flume Gate Company. 248,165; Oct. 16; Serial No. 267,332; published Aug. 7, 1928.
Rivets. David Lupton's Sons Company. 248,107–8; Oct. 16; Serial No. 267,432–3; published Aug. 7, 1928.
Shanks for shoes, Metal. F. G. Delbon. 248,057; Oct. 16; Serial No. 262,703; published Aug. 7, 1928.
Shanks for shoes, Metal. F. G. Delbon. 248,174; Oct. 16; Serial No. 264,084; published Aug. 7, 1928.
Shanks for shoes, Metal. F. G. Delbon. 248,213; Oct. 16; Serial No. 254,836; published Aug. 7, 1928.
Shanks for shoes, Metal. F. G. Delbon. 248,335; Oct. 16; Serial No. 268,337; published Aug. 7, 1928.

CLASS 14.

Steel forgings. Heppenstall Forge & Knife Company. 248,375; Oct. 16.

CLASS 15.

Grease, Axle. Belknap Hardware and Manufacturing Company. 71,424; renewed Nov. 24, 1928.
Lights, Night. Strohmeyer & Arpe Co. 72,504; renewed Jan. 26, 1929.

CLASS 16.

Lampblack. Wilckes Martin Wilckes Company. 72,236; renewed Jan. 12, 1929.
Polish, prepared gasket shellac, etc., Auto. E. F. Gainor. 248,372; Oct. 16.

CLASS 17.

Cigarettes. Brown & Williamson Tobacco Corporation. 248,054; Oct. 16; Serial No. 262,287; published Aug. 7, 1928.
Cigars. H. Fendrich. 72,615; renewed Feb. 9, 1929.
Cigars. J. Fernandez. 248,181; Oct. 16; Serial No. 267,889; published Aug. 7, 1928.
Tobaccos, etc., Chewing, smoking, snuffing. General-Direktion der Österr. Tabakregie. 248,129; Oct. 16; Serial No. 265,638; published Aug. 7, 1928.
Tobaccos, etc., Chewing, smoking, snuffing. General-Direktion der Österr. Tabakregie. 248,130; Oct. 16; Serial No. 265,632; published Aug. 7, 1928.

CLASS 19.

Automobiles, Electric. Automotive Standards, Inc. 248,200; Oct. 16; Serial No. 268,338; published Aug. 7, 1928.
Brakes, Air. Richmond Air Brake Co. 248,376; Oct. 16.
Shields for automobile windshields, Glare. Face-A-Lite Manufacturing Company. 248,235; Oct. 16; Serial No. 266,420; published Aug. 7, 1928.
Trucks, Demountable bodies for hand. Re-Bo Company. 248,077; Oct. 16; Serial No. 266,752; published Aug. 7, 1928.
Vehicles, Motor. American Car and Foundry Motors Company. 248,145; Oct. 16; Serial No. 264,003; published July 10, 1928.

CLASS 22.

Fishhooks. O. Mustad & Son. 248,360; Oct. 16.
Fishing tackle. H. A. Whittemore. 72,096; renewed Jan. 5, 1929.
Swimming collars, Rubberized. Archer Rubber Company. 72,403; renewed Jan. 26, 1929.

CLASS 23.

Card clothing and hand cards. Standard Card Clothing Company. 248,269; Oct. 16; Serial No. 267,614; published Aug. 7, 1928.
Centrifuges, extractors, aspirators, etc. Saureschutz-Gesellschaft m. b. H. 248,343; Oct. 16; Serial No. 266,889; published Aug. 7, 1928.
Dies, jigs, taps, wire-bundling machines, etc. Viking Tool and Machine Co. 248,215; Oct. 16; Serial No. 253,968; published Aug. 7, 1928.
Dishwashing appliance. Utilities Corporation of Maryland. 248,321; Oct. 16; Serial No. 268,068; published Aug. 7, 1928.
Extinguishers, Fire. Burnoyl Heating Corporation. 248,039; Oct. 16; Serial No. 265,884; published Aug. 7, 1928.
Handles, forks, and spoons, Knife. Manning, Bowman & Co. 248,192; Oct. 16; Serial No. 268,231; published Aug. 7, 1928.
Pumps, Rotary. Pittsburgh Machine Tool Company. 248,355; Oct. 16.
Punching machines, Metal-. G. P. Thomas. 248,348; Oct. 16.
Razors. Durham Safety Razor Co. 70,855; renewed Oct. 13, 1928.
Razors. Jean Jordenu, Inc. 248,051; Oct. 16; Serial No. 261,229; published Aug. 7, 1928.
Reamers, Machine and hand. Watervliet Tool Co. 248,349; Oct. 16.
Screens, Vibrating. Deister Concentrator Company. 248,359; Oct. 16.
Snowplow. Otto Biefeld Co. 248,356; Oct. 16.
Sprayers and spraying attachments. Hudson Manufacturing Co. 248,305; Oct. 16; Serial No. 267,123; published Aug. 7, 1928.
Sprayers and spraying attachments. Hudson Manufacturing Co. 248,306; Oct. 16; Serial No. 267,122; published Aug. 7, 1928.
Stapling machines and attachments. Neva-Clog Products, Inc. 248,322; Oct. 16; Serial No. 268,054; published Aug. 7, 1928.
Tools. M. Scherrer. 248,282; Oct. 16; Serial No. 258,138; published Aug. 7, 1928.
Tools, machines, etc., Thread-cutting. Oster Manufacturing Company. 248,319; Oct. 16; Serial No. 268,111; published Aug. 7, 1928.
Vulcanizing machine, Tire-. Akron Tyrwelder Company. 248,298; Oct. 16; Serial No. 267,221; published Aug. 7, 1928.

CLASS 26.

Eyeglasses and spectacles and the constituent parts of eyeglasses and spectacles. J. A. Sweeney. 248,019; Oct. 16; Serial No. 266 226; published Aug. 7, 1928.
Measures and optical goods. Daimler-Motoren-Gesellschaft. 71,288; renewed Nov. 17, 1928.

Optical goods. Rathenower Optische Industrie Anstalt vorm. Emil Busch, A. G. 71,156; renewed Nov. 3, 1928.
Pictures, Motion. MacFadden True Story Pictures Inc. 248,346; Oct. 16.
Spectacles, spectacle frames, and parts thereof. E. E. Emons. 248,381; Oct. 16.
Testing machines, Paper-. B. F. Perkins & Son, Incorporated. 72,681; renewed Feb. 9, 1929.

CLASS 32.

Beds, couches, and davenports. Marshall & Stearns Co. 248,175; Oct. 16; Serial No. 268,740; published Aug. 7, 1928.
Cabinets, cabinet sect'ons, and stands, List-filing. Speedaumat Addressing Machinery, Incorporated. 248,030; Oct. 16; Serial No. 266,053; published Aug. 7, 1928.
Chairs and davenports. C. F. Streit Mfg. Co. 72,021; renewed Dec. 29, 1928
Chairs, Folding. Tucker Duck and Rubber Company. 248,220; Oct. 16; Serial No. 260 600; published Aug. 7, 1928.

CLASS 33.

Glass, Sheet. Libbey-Owens Sheet Glass Company. 248,377–8; Oct. 16.

CLASS 35.

Tire and tube repair kits, Portable automobile. Mohawk-Merrill Tire Company. 248,050; Oct. 16; Serial No. 261,202; published Aug. 7, 1928,

CLASS 37.

Paper. J. C. Blair Company. 72,537; renewed Feb. 2, 1929.
Publication, Annual. "Buyer's Tablet". Publication. 248,351; Oct. 16.
Stationery, Articles of. The firm of J. S. Staedtler. 31,928, renewed Aug. 30, 1928.

CLASS 38.

Nom de plume for magazine articles. Fairchild Company. 248,353; Oct. 16.
Prints and printed matter, Multicolor. Jean Berté Inc. 248,350; Oct. 16.

CLASS 39.

Bathing suits. Ocean Bathing Suit Co. 248,122; Oct. 16; Serial No. 266,552; published July 17, 1928.
Boots and shoes. A. Perugia. 248,225; Oct. 16; Serial No. 260,138; published July 17, 1928.
Coats, vests, overcoats, etc. Shirek & Hirsch. 248,041; Oct. 16; Serial No. 265,861; published July 10, 1928.
Coats, vests, trousers, etc., Men's and boys'. Hub Henry C. Lytton & Sons. 248,152; Oct. 16; Serial No. 263,660; published July 10, 1928.
Coats, vests, trousers, knickerbockers, etc. J. Schoeneman, Incorporated. 248,139; Oct. 16; Serial No. 265,454; published July 10, 1928.
Collars and shirts. Phillips-Jones Corporation. 248,045; Oct. 16; Serial No. 265,738; published July 10, 1928.
Covercoats, waistcoats, coats, pants. A. Deinbac. 248,131; Oct. 16; Serial No. 265,625; published July 10, 1928.
Dresses. C. Hoffman. 248,127; Oct. 16; Serial No. 265,645; published July 10, 1928.
Dresses. Frederick Loeser and Co. 248,313; Oct. 16; Serial No. 267,002; published July 17, 1928.
Dresses. Pilley Bros. & Herschel, Inc. 248,242; Oct. 16; Serial No. 265 066; pub lished July 10, 1928.
Dresses. Style Dress Co. 248,036; Oct. 16; Serial No. 265,993; published July 10, 1928.
Dresses and frocks. Celanese Corporation of America. 248,037; Oct. 16; Serial No. 265,949; published July 10, 1928.
Dresses for women and children. Trippe, Barker & Co. 248,088; Oct. 16; Serial No. 265,349; published July 10, 1928.
Frocks, Wash. M. Dunn. 248,142; Oct. 16; Serial No. 265,426; published July 10, 1928.
Garments, Men's, boys', and children's outer. Cohen, Goldman & Co. Inc. 248,086; Oct. 16; Serial No. 265,365; published July 10, 1928.
Hosiery. W. M. Alling. 248,091; Oct. 16; Serial No. 265,310; published July 17, 1928.
Hosiery. Carter Dry Goods Co. 248,090; Oct. 16; Serial No. 265,319; published July 10, 1928.
Hosiery. Hosiery Mills Co. 248,134; Oct. 16; Serial No. 265,546; published July 10, 1928.
Hosiery. Largman, Gray Company. 248,138; Oct. 16; Serial No. 265,482; published July 10, 1928.
Hosiery. Magnet Knitting Mills. 248,254; Oct. 16; Serial No. 264,692; published July 17, 1928.
Hosiery. McCallum Hosiery Company. 248,025; Oct. 16; Serial No. 266,089; published July 17, 1928.
Hosiery. Peck & Peck. 248,015; Oct. 16; Serial No. 266,328; published July 17, 1928.
Hosiery, Ladies'. Smith, Kirkpatrick & Co. 248,218; Oct. 16; Serial No. 260,855; published July 10, 1928.
Mufflers and men's neckties. Wall Keller-McKee Company. 248,098; Oct. 16; Serial No. 265 245; published July 10, 1928.
Neckties. New Process Company. 248,345; Oct. 16; Serial No. 265,492; published July 17 1928.
Neckties. Wilmur Neckwear Co. 248,040; Oct. 16; Serial No. 265,710; published July 10, 1928.
Pajamas and underwear. Rothschild & Sons, Incorporated. 248,098; Oct. 16; Serial No. 265,245; published July 10, 1928.
Pants, dress pants, overalls, etc., Men's and boys' work. Semingle Manufacturing Co. 248,058; Oct. 16; Serial No. 262,773; published July 10, 1928.
Pants or shorts, Running. Robert Reis & Co. 248,121; Oct. 16; Serial No. 266,558; published July 17, 1928.
Robes, dressing gowns, lounge suits, etc. Lewis-Wise Co. Inc. 248,099–100; Oct. 16; Serial Nos. 265,220–1; published July 10, 1928.
Robes, dressing gowns, lounge suits, etc., Men's and Boys'. Lewis-Wise Co. Inc. 248,236; Oct. 16; Serial No. 265,219; published July 10, 1928.
Robes, pajamas, overshirts, etc., Night. E. Rosenfeld & Co. 72,574; renewed Feb. 2, 1929.
Shirts and pajamas. W. M. Steppacher & Bro., Inc. 248,047; Oct. 16; Serial No. 265,703; published July 10, 1928.
Shirts, blouses, play suits, trousers, etc. Ely & Walker Dry Goods Co. 248,244; Oct. 16; Serial No. 264,972; published July 10, 1928.
Shirts, Men's dress and negligee. Jacob Miller's Sons Co. 248,224; Oct. 16; Serial No. 260,285; published July 10, 1928.
Shoes manufactured of leather. C. W. Johnson. 71,593; renewed Dec. 1, 1928.
Shoes, Molders'. F. M. Strahl. 71,839; renewed Dec. 15, 1928.
Suits, coats, trousers, etc. Hahne & Company. 248,150; Oct. 16; Serial No. 263,761; published July 10, 1928.
Swimming suits, bathing suits, and sweaters, Knitted. M. I. Rivkin. 248,082; Oct. 16; Serial No. 265,406; published July 10, 1928.
Topcoats, overcoats, sport coats, and suits. Rose Bros. 248,140; Oct. 16; Serial No. 265,451; published July 10, 1928.
Underwear. I. Belley. 248,043; Oct. 16; Serial No. 265,826; published July 10, 1928.
Underwear and hosiery. American Textile, Inc. 248 033; Oct. 16; Serial No. 266,011; published July 10, 1928.
Underwear, hosiery, and cut and sewed underwear, Knitted. J. Jacoby Co. 248 084; Oct. 16; Serial No. 265,384; published July 10, 1928.

CLASS 42.

Cotton piece gods. Tr'ppe, Barker & Co. 248,379; Oct. 16.
Knitted and woven piece goods. Du Pont Rayon Company. 248,303; Oct. 16; Serial No. 267,186; published July 17, 1928.

CLASS 43.

Yarns, threads, and filsments, Cellulose acetate. Du Pont Rayon Company. 248 302; Oct. 16; Serial No. 267,187; published July 17, 1928.

CLASS 45.

Beverage, Maltless. Kentucky Nip Corporation. 248,237–4; Oct. 16; Serial No. 266,430–1; published Aug. 7, 1928.
Beverages. R. J. Stranger. 248,060; Oct. 16; Serial No. 262,975; published Aug. 7, 1928.
Beverages and syrup for making the same. Pale Moon Company of America. 248 018; Oct. 16; Serial No. 266,265; published Aug. 7, 1928
Grape juice. United Grape Products, Inc. 248,147; Oct. 16; Serial No. 263,995; published Aug. 7, 1928.
Lime fruit juice. Evans Sons Lescher & Webb Limited. 70,483; renewed Sept. 8, 1928.

CLASS 46.

Beef, canned sea foods, tapioca, etc. Roast. Griggs, Cooper & Company. 248,238; Oct. 16; Serial No. 265,155; published July 17, 1928.
Biscuit and crackers. National Biscuit Company. 71,785–7; renewed Dec. 15, 1928.
Bread, cake, and pastry. J. E. Aubry. 248 038; Oct. 16; Serial No. 265,939; published Aug. 7 1928.
Butter and eggs. J. J. Shekter. 248 133; Oct. 16; Serial No. 265,578; published Aug. 7, 1928.
Butter, oleomargar'ne, eggs, etc. Greene-Babcock Co. 248,203; Oct. 16; Serial No. 252,100; published July 24, 1928.
Candies, Chocolate, New Eng'and Confectionery Co. 70,260–3; renewed Aug. 18, 1928.
Candy, Excellent-Goody Shop. 248 207; Oct. 16; Serial No. 247 176; published Aug. 7, 1928.
Candy, Fanny Farmer Candy Shops, Inc. 248 204; Oct. 16; Serial No. 251,223; published Aug. 7, 1928.
Candy, Mason, Au & Magenheimer Confectionery Manufacturing Company. 248 154; Oct. 16; Serial No. 267 308; published Aug. 7, 1928.
Candy, Voneiff-Drayer Co. 248,176; Oct. 16; Serial No. 268 636; published Aug. 7, 1928.
Canned beef, pork, and chicken. Nichiro Gyogyo Kabushiki Kaisha. 248,279; Oct. 16; Serial No. 259 209; published July 31, 1928.
Canned fish. Kelley-Clarke Co. 248,256–7; Oct. 16; Serial No. 268,791; published Aug. 7, 1928.
Canned fish. Kelley-Clarke Co. 248,177; Oct. 16; Serial No. 268,615; published Aug. 7, 1928.
Canned fish. Kelley-Clarke Co. 258,256–7; Oct. 16; Serial Nos. 268,789–90; published Aug. 7, 1928.
Canned fruits, canned vegetables, etc. Nave-McCord Mercantile Company. 70,960; renewed Oct. 20 1928.

Canned grapefruit. Florida Fruit Canners, Inc. 248,116; Oct. 16; Serial No. 266,654; published Aug. 7, 1928.
Canned vegetables. Otoe Food Products Co. 248,260; Oct. 16; Serial No. 267,787; published Aug. 7, 1928.
Coffee. C. D. Kenny Co. 248,357; Oct. 16.
Coffee. Jewel Tea Co. 248,178; Oct. 16; Serial No. 268,614; published Aug. 7, 1928.
Coffee, Green. Balfour, Williamson & Co. 248,291; Oct. 16; Serial No. 256,277; published Aug. 7, 1928.
Custard, Frozen. E. D. Kohr. 248,362; Oct. 16.
Canned vegetables. Big Stone Canning Co. 248,380; Oct. 16.
Eggs. O. L. D. Ughetta. 248,062; Oct. 16; Serial No. 263,186; published July 31, 1928.
Extract, Malt. Central West Products Company. 248,324; Oct. 16; Serial No. 268,029; published July 31, 1928.
Flour, Self-rising wheat. Farwell & Rhines Co. 248 063; Oct. 16; Serial No. 263,207; published Aug. 7, 1928.
Flour, Wheat. Page Milling Co. 248,366; Oct. 16.
Flour, Wheat. Wellington & Son. 71,903; renewed Dec. 22, 1928.
Food preparations. Strohmeyer & Arpe Co. 72,594–5; renewed Feb. 2, 1929.
Food product. H. Dernehl. 248,368; Oct. 16.
Fruits, Fresh citrus. Mountain View Fruit Association. 248,294; Oct. 16; Serial No. 255,665; published Aug. 7, 1928.
Fruits, Frosted, sliced, etc. N. Buxbaum. 248,105; Oct. 16; Serial No. 267,483; published Aug. 7, 1928.
Gelatin. Swift and Company. 248,184–8; Oct. 16; Serial Nos. 268,180–4; published July 31, 1928.
Gelatin. Swift and Company. 248,189–90; Oct. 16; Serial Nos. 268,186–7; published July 31, 1928.
Gelatin. Swift and Company. 248,193–4; Oct. 16; Serial Nos. 268,252–3; published July 31, 1928.
Gelatin. Swift and Company. 248,196; Oct. 16; Serial No. 268,254; published July 31, 1928.
Gelatin. Swift and Company. 248,316; Oct. 16; Serial No. 268,179; published July 31, 1928.
Gum. Candy-covered chewing. Frank H. Fleer Corporation. 248,289; Oct. 16; Serial No. 256,619; published Aug. 7, 1928.
Ice cream. Moxie Company. 248,162; Oct. 16; Serial No. 267,380; published July 31, 1928.
Ice creams and ice-cream cakes. Chapman's. 248,363; Oct. 16.
Mayonnaise, salad dressing, etc. El-Food Corporation. 248,085; Oct. 16; Serial No. 265,369; published July 31, 1928.
Milk, Sterilized evaporated. Federal Packing Co. 72,682; renewed Feb. 9, 1929.
Oats. Norris Grain Company. 248,293; Oct. 16; Serial No. 255 860; published Aug. 7, 1928.
Pies. Goodrich Bakeries, Incorporated. 248,248; Oct. 16; Serial No. 264,880; published Aug. 7, 1928.
Pies. Pie Bakeries of America, Inc. 248,210; Oct. 16; Serial No. 229,982; published Aug. 7, 1928.
Potato chips. W. J. Rainey. 248,358; Oct. 16.
Potatoes. Albert Miller & Company. 248,034; Oct. 16; Serial No. 266,010; published Aug. 7, 1928.
Poultry, Dressed. Edward Aaron, Inc. 248,352; Oct. 16.
Sugar. Great Western Sugar Company. 248,159; Oct. 16; Serial No. 267,415; published July 31, 1928.
Sugar, Corn. A. Shaw. 248,126; Oct. 16; Serial No. 265,697; published July 24, 1928.
Syrup, Barley-malt. P. Cairns. 248,191; Oct. 16; Serial No. 268 209; published July 31, 1928.
Syrup, Malt. L. G. Reinshagen. 248,270; Oct. 16; Serial No. 267,604; published July 31, 1928.
Syrups. Bliss Syrup Refining Co. 71,573; renewed Dec. 1, 1928.
Topping for ice cream, cakes, etc. Hershey Chocolate Corporation. 248,104; Oct. 16; Serial No. 267,490; published July 31, 1928.
Vegetables, Fresh. Kentucky Vegetable Growers Association, Inc. 248,140; Oct. 16; Serial No. 263,767; published Aug. 7, 1928.

CLASS 48.

Beverage. F. & M. Schaefer Brewing Co. 248,347; Oct. 16.
Stout and ale. Edward & John Burke, Limited. 71,806; renewed Dec. 15, 1928.
Stout and ale. Edward & John Burke, Limited. 72,128; renewed Jan. 5, 1929.

CLASS 49.

Liquors, Ethyl-alcoholic. American Solvents & Chemical Corporation. 248,151; Oct. 16; Serial No. 263,739; published Aug. 7, 1928.
Whiskies, dry gin, and Jamaica rum, Blended Irish. Edward & John Burke, Limited. 72,150; renewed Jan. 5, 1929.
Whisky, gin, and cognac. Edward & John Burke, Limited. 72,080; renewed Dec. 29, 1928.

CLASS 50.

Advertising displays. Ben H. Hazen Co. 248,223; Oct. 16; Serial No. 260,331; published July 17, 1928.
Artificial leather, waterproof coated fabric and cloth. B. Brand. 248,064; Oct. 16; Serial No. 263,257; published July 10, 1928.
Carpet felt. Graham Paper Company. 248,209; Oct. 16; Serial No. 235,469; published July 10, 1928.
Charred sticks. J. L. Wright. 248,214; Oct. 16; Serial No. 254,021; published July 17, 1928.
Electrotype cuts. F. W. Pohlig. 248,094; Oct. 16; Serial No. 265,293; published July 10, 1928.
Fabrics, Treated textile, etc. Archer Rubber Company. 248 056; Oct. 16; Serial No. 262,546; published July 24, 1928.
Ladders. Hilow Manufacturing Company. 248,314; Oct. 16; Serial No. 266,994; published July 24, 1928.
Leather, Artificial. Athol Manufacturing Company. 248,071; Oct. 16; Serial No. 266,847; published July 24, 1928.
Mannequins, statuettes, models, and figures for window, store, etc., display and parts thereof. Curtis-Leger Fixture Company. 248,217; Oct. 16; Serial No. 260,879; published July 10, 1928.
Markers, Fixed direction. Aerovane Utilities Corporation. 248,160; Oct. 16; Serial No. 267,400; published July 24, 1928.
Medals of base metals and art bronzes, etc. Tiffany & Company. 248,304; Oct. 16; Serial No. 267,161; published July 24, 1928.
Rubber sheeting (bed and crib sheeting). J. C. Penney Company. 248,245; Oct. 16; Serial No. 264,910; published July 10, 1928.
Scaffolding and parts thereof. American Safety Device Co. 248,365; Oct. 16.
Sheet material. United States Rubber Company. 248,035; Oct. 16; Serial No. 265,997; published July 24, 1928.
Shoe-trees. M. D. Cohen. 248,032; Oct. 16; Serial No. 266,022; published July 24, 1928.
Tarpaulins. George R. Burrows, Inc. 248,143; Oct. 16; Serial No. 265,423; published July 31, 1928.
Tents, tarpaulins, and waterproofed fabrics. Fulton Bag & Cotton Mills. 248,262; Oct. 16; Serial No. 267,763; published July 31, 1928.
Textile fabrics, Unbleached and undyed. H. M. Eaton. 248,286; Oct. 16; Serial No. 257,405; published Mar. 20, 1928.
Traps, Animal. Animal Trap Company of America. 248,227; Oct. 16; Serial No. 260,041; published July 10, 1928.

ALPHABETICAL LIST OF LABELS.

Bloom's. For Boxes. Hoague-Sprague Corporation. 34,791; Oct. 16.
C. O. S. Auto Polish. For Auto Polish Preparation. C. O. Strombom. 34,806; Oct. 16.
Chiles Jalapeños. For Canned Chiles. Clemente Jacques y Cia. 34,763; Oct. 16.
Chiles Jalapeños. For Canned Stuffed Chiles. Clemente Jacques y Cia. 34,764; Oct. 16.
Chiles Jalapeños. For Canned Chiles. Clemente Jacques y Cia. 34,765; Oct. 16.
Chilitos Serranos. For Canned Chiles. Clemente Jacques y Cia. 34,766–7; Oct. 16.
Columbia. For boxes. Hoague-Sprague Corporation. 34,792; Oct. 16.
D. For Epsom Salt. Drackett Chemical Company. 34,774; Oct. 16.
Dr. Fox's. For Boxes. Hoague-Sprague Corporation. 34,783; Oct. 16.
Dr. Hunn's. For Boxes. Hoague-Sprague Corporation. 34,784; Oct. 16.
Electro. For Liniment. F. Hogshead. 34,798; Oct. 16.
Emerson's Ginger-Mint Gum. For Chewing Gum. Ginger-Mint Julep Company. 34,775; Oct. 16.
Foursome. For Candy. Alberta Candy Co. 34,760; Oct. 16.
Fox Footwear. For Boxes. Hoague-Sprague Corporation. 34,782; Oct. 16.
French Booteric. For Boxes. Hoague-Sprague Corporation. 34,790; Oct. 16.
Gladness. For Chocolate Layer Cake. Gladness Bakeries Incorporated. 34,776; Oct. 16.
Hornung's. For Boxes. Hoague-Sprague Corporation. 34,785; Oct. 16.
L. S. Ayers & Company. For Boxes. Hoague-Sprague Corporation. 34,787; Oct. 16.
Little Miss Twelve. For Ladies' and Misses' Dresses. C. Hoffman. 34,797; Oct. 16.
Milby. For Boxes. Hoague-Sprague Corporation. 34,786; Oct. 16.
Milby. For Boxes. Hoague-Sprague Corporation. 34,796; Oct. 16.
Mimnaugh's. For Boxes. Hoague-Sprague Corporation. 34,788; Oct. 16.
Mole de Guajolote. For Canned Turkey. Clemente Jacques y Cia. 34,769; Oct. 16.
Moores & Ross. For Ice Cream. Menasha Printing and Carton Company. 34,800; Oct. 16.

Mrs. Goddard's Creamy Custard Powder. For Custard Powders. M. Goddard. 34,777; Oct. 16.
Nay's. For Boxes. Hoague-Sprague Corporation. 34,794; Oct. 16.
Nobscot. For Ginger Ale. Nobscot Spring Water Co. 34,802; Oct. 16.
Nocosoap. For Liquid Toilet Soap. Antiseptol Liquid Soap Company. 34,762; Oct. 16.
Partridge Creamery Butter. For Creamery Butter. H. H. Meyer Packing Company. 34,801; Oct. 16.
Pato Trignero en Pipian. For Canned Duck. Clemente Jacques y Cia. 34,771; Oct. 16.
Pediforme. For Boxes. Hoague-Sprague Corporation. 34,789; Oct. 16.
Russell Williams. For Boxes. Hoague-Sprague Corporation. 34,793; Oct. 16.
Sacket Junior Cigars De-Nicotined (Bulk of Nicotine Removed). For Junior Cigars. H. Sackett. 34,805; Oct. 16.
Saks'. For Boxes. Hoague-Sprague Corporation. 34,795; Oct. 16.
Salsa Tabasco. For Chili Sauce. Clemente Jacques y Cia. 34,768; Oct. 16.
Sanola. For Candy Laxative. O. D. Cortivo. 34,772; Oct. 16.
Smile. For Fresh Grapes. J. S. Krasnow. 34,799; Oct. 16.
Star of the East. For Flour. Page Milling Co. 34,803; Oct. 16.
Stimulon. For a Pure-Food Drink. G. Anston. 34,761; Oct. 16.
Strawbridge & Clothier. For Boxes. Hoague-Sprague Corporation. 34,780; Oct. 16.
The M. O'Neil Co. For Boxes. Hoague-Sprague Corporation. 34,781; Oct. 16.
Tlamole. For Sauce. Clemente Jacques y Cia. 34,770; Oct. 16.
Wearwell. For Boxes. Hoague-Sprague Corporation. 34,778; Oct. 16.
Wearwell Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,779; Oct. 16.
Widow's Cracker. For Crackers. A. Davis. 34,773; Oct. 16.
Zoff. For Hand Soap Powder. C. A. Rahayel. 34,804; Oct. 16.

ALPHABETICAL LIST OF PRINTS.

Autumn Leaf. For Bricks. Michigan Clay Products Corporation. 11,268; Oct. 16.
Blue Band Velvet Pencils—Buy Your School Supplies Here No. 146. For Pencils. American Lead Pencil Company. 11,263; Oct. 16.
Frederics Vita-Tonic Compound Light and Medium Shades. For a Compound for Waving Hair. E. Frederics, Inc. 11,265; Oct. 16.
Grace Tancill Two-Piece Crepe de Chine Capyl Model. For Dresses. G. Tancill. 11,269; Oct. 16.
Makers of America's Finest Face Brick. For Brick. D. A. Cannon. 11,264; Oct. 16.
Soft, Summer Sunshine. Deep, Cool Shadows. For Peanut Butter, Baked Beans, Chili Sauce, Stuffed Olives, Mustard, and Sweet Mixed Pickles. H. J. Heinz Company. 11,266; Oct. 30.
Super Service Steel—More Cuts per Grind. For Knives for Woodworking Machines. Yates-American Machine Company. 11,271; Oct. 16.
The Stamp of Millions. For Toasted Peanuts. T. Huston. 11,267; Oct. 16.
Wilcox Foot Balm. For Foot Powder. C. W. Wilcox. 11,270; Oct. 16.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-pressure tank. 1,687,641; Oct. 16.
Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,687,642; Oct. 16.
Abbe, Edward J., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. 1,688,131; Oct. 16.
Abbey, Charles J., Skowhegan, Me. Combination door stop and holder. 1,688,221; Oct. 16.
Acker, Emil W., Cleveland Heights, Ohio. Barricade. 1,687,820; Oct. 16.
Ackerman, Francis E., New Canaan, Conn., assignor to Julius Forstmann & Co., Inc., Passaic, N. J. Identification device. 1,688,101; Oct. 16.
Ackermann, George B. (See Klees, A. L., Greenfield, and Ackermann.)
Ackroyd, Alfred, et al. (See Cass, Albert, assignor.)
Acro Aktiengesellschaft. (See Lang, Franz, assignor.)
Advertising Machines Limited. (See Didcote, Ernest, assignor.)
Aeroshade Company, The. (See Kimball, Edwin R., assignor.)
Affel, Herman A., Maplewood, and E. I. Green, East Orange, N. J., assignors to American Telephone and Telegraph Company. Reduction of losses in insulators, pins, and cross arms. 1,687,535; Oct. 16.
Ainley, Eric and H., Stocks Moor, near Huddersfield, England. Apparatus for cutting stone and like material. 1,687,965; Oct. 16.
Ainley, Harold. (See Ainley, Eric and H.)
Ajax Metal Company, The. (See Wyatt, James R., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Wirz, E., Haller, and Kuntze, assignors.)
Aktiengesellschaft für Cartonnagenindustrie. (See Mögel, Ernst, assignor.)
Aldeen, Gedor W., assignor to Fyrac Manufacturing Co., Rockford, Ill. Spotlight. 1,687,821; Oct. 16.
Aldrich, Alonzo, and E. E. Berry, assignors to Beloit Iron Works, Beloit, Wis. Steam fitting for journals of rotary steam cylinders or the like. 1,688,172; Oct. 16.
Alibert, Emile, Paris, France. Automatic nail-feeding device for nailing machines. 1,688,260; Oct. 16.
Allen, Arthur W., Berkeley, Calif. Production of clear brine or other liquors. 1,687,703; Oct. 16.
Aluminum Company of America. (See Welty, George D., assignor.)
Aluminum Goods Manufacturing Company. (See Drumm, Elmer E., assignor.)
Altorfer, Alpheus W., Peoria, Ill. Washing machine. 1,688,031; Oct. 16.
Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,688,000; Oct. 16.
Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Agitator for washing machines. 1,688,001; Oct. 16.
Altorfer Bros. Company. (See Altorfer, Alpheus W., assignor.)
American Bevel Glass Company. (See Beyer, Bertrand E., assignor.)
American Buckle Co., The. (See Hodge, Robert J., assignor.)
American Copper Products Corporation. (See Carpenter, Hamilton C., assignor.)
American Gasaccumulator Company. (See Oestnaes, Victor L., assignor.)
American Injector Company. (See Diederich, Paul E., assignor.)
American Mason Safety Tread Company. (See Welcome, Harold A., assignor.)
American Rolling Mill Company, The. (See Tytus, John B., assignor.)
American Sterilizer Company. (See Jewell, Raymond L., assignor.)
American Telephone and Telegraph Company. (See Affel, H. A., and Green, assignors.)
American Telephone and Telegraph Company. (See Branson, David E., assignor.)
American Telephone and Telegraph Company. (See Gordon, C. S., and Lowe, assignors.)
American Telephone and Telegraph Company. (See Weaver, Allan, assignor.)
American Welding and Manufacturing Company, The. (See Klaus, Fred R., assignor.)
Amet, Pierre, Paris, France. Separator. 1,687,603; Oct. 16.
Ams, Max, Machine Company, The. (See Lange, Paul H., assignor.)
Anchor Corrugating Construction Co. (See Braunstein, Achille, assignor.)
Andersen, Carl C., Vierne Mark Pr. Gamby, Denmark. Horse-drawn rake. 1,688,222; Oct. 16.
Anderson, Bert, assignor to Anderson, Clayton & Company, Houston, Tex. Bale tie. 1,687,854; Oct. 16.
Anderson, Clayton & Company. (See Anderson, Bert, assignor.)
Anderson, Ernst G. K., Chicago, Ill., assignor to Appleton Electric Company. Demountable spotlamp with extension cord. 1,687,651; Oct. 16.
Anderson, Johan A., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Winding machine. 1,687,704; Oct. 16.
Andrews, William H., Los Angeles, Calif. Sleeper anchor. 1,688,102; Oct. 16.
Androff, Lambro, Minneapolis, Minn. Dispensing device. 1,687,705; Oct. 16.
Ansco Photoproducts, Inc. (See Lowkrantz, Gunne, assignor.)
Ansonia Clock Company, The. (See Balzer, Werner H., assignor.)
Apelt, Charles, Comfort, Tex. Lamp shade. Des. 76,594; Oct. 16.
Appleton Electric Company. (See Anderson, Ernst G. K., assignor.)
Arcadu, Anthony, Peekskill, N. Y. Chest lock. 1,687,485; Oct. 16.
Archea, Walter D., Norwood, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Work rest and ejecting device for grinding machines. 1,688,103; Oct. 16.
Armstrong, Edward P. (See Ricker, J. B., Person, and Armstrong.)
Armstrong, Henry W. (See Ricker, J. B., Person, and Armstrong.)
Armstrong, Percy A. E., New York, N. Y. Ferrous alloy. 1,687,486; Oct. 16.
Arnold, Ernest J. (See Arnt, H. P., and Arnold.)
Arnt, Herald P., Lakewood, and E. J. Arnold, assignors of one-fourth to C. B. Muller, Cleveland, Ohio. Tubular spoke and method of making it. 1,687,487; Oct. 16.
Asbestos Shingle, Slate & Sheathing Company. (See Mattison, Richard V., assignor.)
Ashbaugh, John H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,687,855; Oct. 16.
Atlas Conveyor Company. (See Reed, Percival K., assignor.)
Attendu, André C., Montreal, Quebec, Canada. Pump control. 1,687,604; Oct. 16.
Austin, Bascum O., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating system for cars. 1,687,652; Oct. 16.
Austin, William E. (See Stein, H., Austin, and Liebowitz.)
witz).
Automatic Electric Inc. (See Mercer, R., and Tench, assignors.)
Automatic Electric Inc. (See Pye, Harold C., assignor.)
Automatic Electric Inc. (See Stehlik, Rudolph F.)
Baader, Rudolph, Lubeck, Germany. Apparatus for filleting fish. 1,687,922; Oct. 16.
Babb, Charles S. (See Forrest, C. N., Miller, and Babb.)
Babcock Printing Press Manufacturing Company, The. (See English, F. S., and Perry, assignors.)
Babcock & Wilcox Company, The. (See Smith, Herman B., assignor.)
Babel, Henry C., assignor to M. L. Babél, Buffalo, N. Y. Process and apparatus for removing chemicals and moisture from lumber, wood, and other substances. 1,687,822; Oct. 16.
Babel, Myrtle L. (See Babel, Henry C., assignor.)
Baer, Carl J., St. Louis, Mo. Current motor. 1,687,923; Oct. 16.
Baer & Wilde Co. (See Bates, Arthur, assignor.)
Bager, Svante R. W. M., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Steering mechanism. 1,687,653; Oct. 16.
Bailey, Elmer M., Havensville, Kans. Shade and curtain bracket. 1,688,223; Oct. 16.
Baker-Perkins Company. (See Prescott, William E., assignor.)
Baldwin Locomotive Works, The. (See Neebe, Lawrence L., assignor.)
Balzer, Werner H., assignor to The Ansonia Clock Company, New York, N. Y. Clock case. Des. 76,595; Oct. 16.

Band-Bound Box Company. (See Campbell, Arthur T., assignor.)
Bang, Paul E., Newton, Mass. Windshield cleaner. 1,688,104; Oct. 16.
Baran, Michal, Harvey, Ill. Furnace. 1,688,105; Oct. 16.
Barber Asphalt Company, The. (See Forrest, C. N., Miller, and Babb, assignors.)
Barrett, Cassius M. C., Coupeville, Wash. Double-swivel hook. 1,688,293; Oct. 16.
Barrett, Joseph M., Fostoria, assignor to The Swartwout Company, Cleveland, Ohio. Desuperheater control. 1,688,132; Oct. 16.
Barry, Richard V., Ottumwa, Iowa. Seed dropper. 1,688,067; Oct. 16.
Bartling, Friedrich. (See Honigmann, L., and Bartling.)
Bartram, O. R. (See Goff, Jess, assignor.)
Bassick Manufacturing Company, The. (See Murphy, Howard J., assignor.)
Bassick Manufacturing Company, The. (See Piquerez, Emile, assignor.)
Bates, Arthur, assignor to Baer & Wilde Co., Attleboro, Mass. Cigar lighter. Des. 76,596; Oct. 16.
Bates, Charles J., jr., Englewood, N. J., assignor to The Mosler Safe Company, Hamilton, Ohio. Fireproof safe. 1,688,106; Oct. 16.
Bauer, Martin, Cleveland, Ohio. Reenforced scaffold plank. 1,687,706; Oct. 16.
Baughman, George W., Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,688,173; Oct. 16.
Bamm, Isaac A., Chicago, Ill. Clamp for frames. 1,687,536; Oct. 16.
Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)
Bausch & Lomb Optical Company. (See Martin, Allan F., assignor.)
Bausch and Lomb Optical Company. (See Stevens, Frederick A., assignor.)
Bausch & Lomb Optical Company. (See Welsh, James W., assignor.)
Bayer, Arthur M., Danube, Minn. Locking carrier for disk wheels. 1,687,966; Oct. 16.
Becker, Hazen K., and E. G. Jurgens, assignors to Peters Machinery Company, Chicago, Ill. Package wrapping and bauding machine. 1,687,488; Oct. 16.
Bell, Harry J., Waynesboro, Pa. Case for music records. 1,688,224; Oct. 16.
Bell Telephone Laboratories, Incorporated. (See Curtis, Austen M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lum, George R., assignor.)
Bell Telephone Laboratories, Incorporated. (See O'Neill, Henry W., assignor.)
Belohlavek, Bill J., San Antonio, Tex. Collapsible auxiliary seat. 1,688,225; Oct. 16.
Beloit Iron Works. (See Aldrich, A., and Berry, assignors.)
Bender, William, Downers Grove, Ill., assignor to Ramapo Ajax Corporation, New York, N. Y. Compromise angle bar. 1,688,107; Oct. 16.
Berger, Betty, New York, N. Y. Electric hot-water heater. 1,688,108; Oct. 16.
Berger, David, Philadelphia, Pa. Massage implement. 1,688,226; Oct. 16.
Bergner, Otto, Schonwald, Germany. Pitcher. Des. 76,597; Oct. 16.
Berland, Jacob B., St. Louis, Mo. Store front. Des. 76,598; Oct. 16.
Berliner, Jacob S. (See Mackenzie, Katherine M., assignor.)
Berliner, Jacob S., New York, N. Y. Toilet preparation. 1,687,643; Oct. 16.
Bernier, Henry, Easthampton, Mass. Press. 1,688,227; Oct. 16.
Berry, Earl E. (See Aldrich, A., and Berry.)
Berry, Fred F., Los Angeles, Calif. Metallic-value recoverer. 1,688,109; Oct. 16.
Bessonett, Leland S., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Fitting for drainage of lubricants from lubricant-containing cases. 1,687,823; Oct. 16.
Beyer, Bertrand E., assignor to American Bevel Glass Company, Paterson, N. J. Glass-beveling machine. 1,688,068; Oct. 16.
Bierbaum, Christopher H., assignor to Lumen Bearing Company, Buffalo, N. Y. Bearing alloy. 1,687,924; Oct. 16.
Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 76,599; Oct. 16.
Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 76,600; Oct. 16.
Blaikie, Charles D. (See Durand, Moise H., assignor.)
Blair, Robert S., Stamford, Conn. Wave motor. 1,688,032; Oct. 16.
Blair, Robert S., Stamford, Conn. Athletic apparatus. 1,688,033; Oct. 16.
Blaw-Knox Company. (See de Fries, Walter, assignor.)
Bliss, H. R., Company. (See Bliss, Herbert R., assignor.)
Bliss, Herbert R., assignor to H. R. Bliss Company, Inc., Niagara Falls, N. Y. Sealing shipping cases. 1,687,747; Oct. 16.
Boh, Charles V. (See McRae, Randolph J., assignor.)
Bodle, Virgil H., and F. C. Francisco, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Lasting machine. 1,687,824; Oct. 16.
Boe, Kathleen, St. Louis, Mo. Score card. Des. 76,601; Oct. 16.
Bogart, William C., Los Angeles, Calif. Trolling head. 1,688,110; Oct. 16.
Böhle, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Rhur, Germany. Manufacturing kettle-shaped hollow bodies. 1,688,111; Oct. 16.
Bonsall, Charles D., Parnassus, Pa., assignor to Union Metal Products Company, Chicago, Ill. Car-wall structure. 1,688,133; Oct. 16.
Booth, Charles F., and A. B. Gerber, Anniston, Ala., and P. Logue, Logue, Mo. Saline tri-sodium phosphate and its manufacture. 1,688,112; Oct. 16.
Booty, Philip C. P., assignor to M. T. Daley, Chicago, Ill. Receptacle for face powder and the like. 1,687,748; Oct. 16.
Borchert, Fred L., Rockford, Ill. Confection-making machine. 1,687,707; Oct. 16.
Borchert, Fred L., Rockford, Ill. Cutting and feeding mechanism for confection-bar-making machines. 1,687,708; Oct. 16.
Bornkessel, Max, New York, N. Y. Surgical headlight. 1,688,113; Oct. 16.
Borror, Donald, Garnett, Kans. Automobile tire carrier. 1,687,749; Oct. 16.
Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Eyeglass frame. Des. 76,602; Oct. 16.
Bouton, Edgar M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elevator-control system. 1,687,654; Oct. 16.
Bowers, Walter G. (See Smith, C. A., and Bowers.)
Boyle, Eldridge R., Washington, D. C. Bathing compartment. 1,687,711; Oct. 16.
Boyton, John C., Cleveland, Ohio. Conduit clamp. 1,687,750; Oct. 16.
Bo-Zar Engraving Studios, Inc. (See Sass, Fred, assignor.)
Brace, William R., Newark, N. J. Metal door. 1,687,537; Oct. 16.
Bradbury, George E., Chicago, Ill. Fastening. 1,687,538; Oct. 16.
Branner, George R., Daytona, Fla. Animal collar. 1,688,261; Oct. 16.
Branson, David E., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Apparatus and method for electrical transmission of pictures. 1,687,489; Oct. 16.
Brassert, Herman A., Kenilworth, Ill. Die block and treating steel for use in the manufacture thereof. 1,687,825; Oct. 16.
Braun, Philip N., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Combined laundry pressing machine and work conveyer. 1,687,967; Oct. 16.
Braunsdorff, Reginald K. (See Moffit, T. O., and Braunsdorff.)
Braunstein, Achille, assignor to Anchor Corrugating Construction Co., New York, N. Y. Building construction. 1,688,134; Oct. 16.
Bredenberg, Alfred Camplain, N. Y., assignor of one-half to T. W. & C. B. Sheridan Company, and one-half to The Sheridan Iron Works. Press. 1,687,968; Oct. 16.
Bridgman, Margaret, Canadensis, Pa. Handkerchief or the like. Des. 76,603; Oct. 16.
Bridgman, Margaret, Canadensis, Pa. Handkerchief or the like. Des. 76,604; Oct. 16.
Bridgman, Margaret, Canadensis, Pa. Handkerchief or the like. Des. 76,605; Oct. 16.
Briggs, Arthur J., Syracuse, N. Y., assignor to Onondaga Steel Company, Inc. Metallurgical furnace. 1,687,925; Oct. 16.
Briggs Manufacturing Company. (See Clark, James H., assignor.)
Briggs Manufacturing Company. (See Marshall, William, assignor.)
Briggs, Stephen F., and E. N. Jacobi, assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Latch switch. 1,687,490; Oct. 16.
Briggs & Stratton Corporation. (See Briggs, S. F., and Jacobi, assignors.)
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
British Dyestuffs Corporation Limited. (See Cronshaw, C. J. T., and Naunton, assignors.)
Broomhall, Harley, assignor to The Shelby Metal Products Company, Shelby, Ohio. Latch and dogging means therefor. 1,687,926; Oct. 16.
Brown and Brown, Inc. (See Brown, Chalmers S., assignor.)
Brown, Chalmers S., assignor to Brown and Brown, Inc., Lima, Ohio. Locking manhole cover. 1,687,969; Oct. 16.
Brown Company. (See Parker, Howard, assignor.)
Brown, Cora E. (See Newell, L. S., and Brown.)
Brown, Peter, Chicago, Ill., assignor to O-Cedar Corp'n. Carton and method of wrapping mops. 1,687,655; Oct. 16.
Brown, Stephen A. (See Westbrook, R. G., and Brown.)
Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Lister plow and planter. 1,688,034; Oct. 16.
Brown, Walter J., Davenport Park, England, assignor to Westinghouse Electric & Manufacturing Company. Heat-treating method. 1,687,656; Oct. 16.

Bruce, Alonzo R., Mexia, and E. T. Thornton, Wortham, Tex. Belt clamp. 1,688,262; Oct. 16.
Brunette, Arthur O., Kelowna, British Columbia, Canada. Heater for sawdust or coal dust. 1,687,539; Oct. 16.
Brunswick-Balke-Collender Co., The. (See Miller, John O., assignor.)
Bryan, Benjamin B., jr., New York, N. Y. Applying to useful purposes the energy developed through the momentum of moving trains. 1,687,927; Oct. 16.
Bryant, Frank L., Joliet, Ill. Valve. 1,688,035; Oct. 16.
Bryce, James W., Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y. Synchronizing clocks. 1,687,491; Oct. 16.
Buchanan-Wollaston, Hugo J., Lowestoft, England. Tightening and gripping device for string employed in the tying of parcels. 1,687,856; Oct. 16.
Buchner, Rudolph, Sydney, New South Wales, Australia. Prepayment message receiving and delivering device. 1,688,114; Oct. 16.
Buchwalter, Marguerite A., New York, N. Y. Flowerpot or similar article. Des. 76,606; Oct. 16.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Bucyrus-Erie Company. (See Bager, Svante R. W. M., assignor.)
Buffalo Forge Company. (See Carrier, Willis H., assignor.)
Bullard, William P., Albany, Ga. Feeding means for grading apparatus. 1,688,263; Oct. 16.
Bundy, Harry W., Detroit, Mich. Apparatus for making multiply strip stock. 1,687,605; Oct. 16.
Bunting, James H., assignor to Susquehanna Silk Mills, Clifton, N. J. Textile fabric. Des. 76,607; Oct. 16.
Burkhard, Harold C., Chicago, Ill. Support for removable seat covers. 1,687,826; Oct. 16.
Burnham, George A., Saugus, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Oil-filled insulating bushing. 1,688,302; Oct. 16.
Burnham, Leland F., Pittsburgh, Pa., L. H. Kelm, Los Angeles, Calif., and C. Schafer, Allison Park, Pa., assignors to Westinghouse Electric and Manufacturing Company. Trolley base. 1,687,657; Oct. 16.
Busch, Albert, Brunswick, assignor to J. A. von Wilfing, Berlin, Germany. Manufacturing albumin preparations. 1,688,228; Oct. 16.
Butterfield, Percy L. (See Castricum, M., and Butterfield.)
Buxton, Francis E., Indianapolis, Ind. Method and control device for lubricating systems. 1,687,827; Oct. 16.
Camel Company. (See Tobin, K. J., and Darrow, assignors.)
Camel Company. (See Tobin, K. J., Wasberg, and Madland, assignors.)
Cameron Machine Company. (See Johnstone, Robert M., assignor.)
Campbell, Arthur T., assignor to Band-Bound Box Company, Seattle, Wash. Box-blank folding and fastening machine. 1,688,115; Oct. 16.
Campbell, Harry A. F., Philadelphia, Pa. Locomotive cylinder structure. 1,688,174; Oct. 16.
Canda, Abell, Cranford, N. J. Forging balls from long bars. 1,688,175; Oct. 16.
Carbide & Carbon Chemicals Corporation. (See Lommen, Fred W., assignor.)
Carlson, Wendell L., Schenectady, N. Y., assignor to General Electric Company. Amplifying system. 1,687,540; Oct. 16.
Carmichael, William F., assignor to New Way Motor Company, Lansing, Mich. Turbine-fan structure. 1,687,541; Oct. 16.
Carpenter, Hamilton C., Elizabeth, N. J., assignor to American Copper Products Corporation, New York, N. Y. Flexible electric conductor. 1,688,303; Oct. 16.
Carpenter, John C., Oswego, Kans. Holder for ledger sheets. 1,688,264; Oct. 16.
Carrier, Willis H., Essex Fells, N. J., assignor to Buffalo Forge Company, Buffalo, N. Y. Cooling system. 1,687,542; Oct. 16.
Cass, Albert, Manchester, England, assignor of one-half to J. Robinson and A. Ackroyd, Eccles, England. Picking motion for looms for weaving. 1,687,857; Oct. 16.
Case, Arthur F., assignor to The Wellman-Seaver-Morgan Co., Cleveland, Ohio. Cable suspension for hoisting buckets. 1,687,543; Oct. 16.
Case, Francis M., Cleveland Heights, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,688,135; Oct. 16.
Case, Paul D. (See Smith, H. R. and Case.)
Castricum, Martin, and P. L. Butterfield, Springfield, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Automatic cutting device. 1,687,928; Oct. 16.
Celenko, Joseph, Bedford, Ohio. Rubber heel. 1,688,116; Oct. 16.
Central Scientific Company. (See Sachse, Herman P., assignor.)
Chadbourn, Ralph W. (See Neall, N. J., and Chadbourn.)
Champ Electrical Company. (See Chandler, Daniel L., assignor.)
Chandler, Daniel L., assignor to Champ Electrical Company, Boston, Mass. Toaster. 1,687,712; Oct. 16.
Charles, Richard P. (See Delany, E. L., and Charles.)
Chase, Lewis B. (See Miller, G. C., Kurka, and Chase.)
Chayes Dental Instrument Corporation. (See Chayes, H. E. S., and Jurgensen, assignors.)
Chayes Dental Instrument Corporation. (See Jurgensen, August P., assignor.)
Chayes, Herman E. S., and A. P. Jurgensen, assignors to Chayes Dental Instrument Corporation, New York, N. Y. Dental tool holder. 1,688,136; Oct. 16.
Cheney Brothers. (See Virgile, Gabriel J., assignor.)
Chicago Pneumatic Tool Company. (See Santos, John R. L., assignor.)
Chireix, Henri, Paris, France. Wireless-telephone tube sending station. 1,687,828; Oct. 16.
Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electric welding apparatus. 1,687,492; Oct. 16.
Cimorosi, Alberto. (See Cimorosi, Clement, assignor.)
Cimorosi, Clement, assignor to A. Cimorosi, Elkton, Md. Torpedo casing. 1,687,929; Oct. 16.
Cincinnati Grinders Incorporated. (See Archea, Walter D., assignor.)
Claremont Waste Manufacturing Company. (See Parent, Louis F., assignor.)
Clark, Henry W., Danville, Ill. Drier. 1,687,829; Oct. 16.
Clark, James E. and T. E., Detroit, Mich. Electric fan and heater. 1,687,544; Oct. 16.
Clark, James H., assignor to Briggs Manufacturing Company, Detroit, Mich. Ventilator. 1,688,069; Oct. 16.
Clark, John, Buffalo, N. Y. Connecter. 1,688,176; Oct. 16.
Clark, Thomas E. (See Clark, James E. and T. E.)
Clarke, Ralph A., assignor to Standard Radio Corporation, Worcester, Mass. Radiocircuits. 1,688,265; Oct. 16.
Clefton, Clyde M., assignor to F. K. Clefton, Austin, Minn. Oil burner. 1,687,606; Oct. 16.
Clefton, Florence K. (See Clefton, Clyde M.)
Clement, Lewis M., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radiant-energy-transmission system. 1,688,036; Oct. 16.
Clements Mfg. Co. (See Clements, William J., assignor.)
Clements, William J., Chicago, Ill., assignor to Clements Mfg. Co. Spraying device. 1,687,545; Oct. 16.
Cleveland, Charles F. (See Miller, C. G., and Cleveland.)
Clevenger, Merritt A., Greenville, Mich. Air odorizer for electric fans. 1,687,830; Oct. 16.
Climax Rock Drill & Engineering Works Limited, The. (See Penberthy, Ernest, assignor.)
Coffey, Bradford D., Jersey City, N. J. Electrical compound letter. 1,688,266; Oct. 16.
Cohen, Gussie, Cincinnati, Ohio. Scrubbing brush. 1,687,831; Oct. 16.
Coldwell, Charles E., Phoenix, Ariz. Cotton-conveying apparatus. 1,687,713; Oct. 16.
Cole, Theodore S., New Haven, Conn. Storage-cell connecter. 1,688,002; Oct. 16.
Collins, Arthur E., Cuyahoga Falls, assignor to The Miller Rubber Company, Akron, Ohio. Slitting machine. 1,687,607; Oct. 16.
Commonwealth Bank of Baltimore. (See Fink, Charles F., assignor.)
Conant, David J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Sleeved pump motor. 1,687,658; Oct. 16.
Condit Electrical Manufacturing Corporation. (See Burnham, George A., assignor.)
Cook, Frederick R. (See Tibbot, G. B., and Cook.)
Coombes, Warren E., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,687,930; Oct. 16.
Cooper, Basil P., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Steam generator. 1,687,832; Oct. 16.
Corliss, Louis F., South Tamworth, N. H., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Liquid-controlled gyroscopic compass. 1,687,970; Oct. 16.
Cory, M. M. (See Perl, John, assignor.)
Coune, Félix, Chicago, Ill. Hair-waving apparatus. 1,687,659; Oct. 16.
Cowdery, Robert H., Geneva, Ohio. Bow for archery. Des. 76,608; Oct. 16.
Cram, Hervey G., assignor to Great Northern Paper Company, Millinocket, Me. Paper making. 1,688,267; Oct. 16.
Cremer, Leonard A., assignor of one-half to H. Semler, Portland, Oreg. Denture press. 1,688,070; Oct. 16.
Cribben & Sexton Company. (See Klees, A. L., Greenfield, and Ackermann, assignors.)
Crofoot, John B., Arlington Heights, Ill. Magazine hammer. 1,688,037; Oct. 16.
Croft, Hiram D., assignor to Perkins Machine and Gear Company, Springfield, Mass. Broach mechanism. 1,688,177; Oct. 16.
Cronshaw, Cecil J. T., and W. J. S. Naunton, assignors to British Dyestuffs Corporation Limited, Manchester, England. Vulcanization of rubber. 1,687,861; Oct. 16.
Crossley, Alfred, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Amplifying system. Re17,105; Oct. 16.
Cullum, Henry J., London, England. Sound-amplifying horn for gramophones, loud speakers, and other like sound-reproducing apparatus. 1,687,714; Oct. 16.
Cummer, Frederick H., Los Angeles, Calif. Mixer for road materials. 1,687,660; Oct. 16.
Curtis, Austen M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Protective device. 1,688,038; Oct. 16.
Curtis, Frederick C., London, England. Electrical heater. 1,687,858; Oct. 16.

Curtis Manufacturing Company. (See Steedman, Edwin H., assignor.)
D. H. P. Manufacturing Company. (See Pierson, Benjamin J., assignor.)
Dahl, Conrad, Chicago, Ill., assignor, by mesne assignments, of one-half to said Conrad Dahl, and one-half to E. G. S. Tracy, Cokato, Minn. Foot-power vehicle. 1,687,715; Oct. 16.
Dahl, Conrad, et al. (See Dahl, Conrad, assignor.)
Dahlberg, Henry W., Denver, Colo. Cyclic process of using barium compounds in the manufacture of sugar. 1,688,071; Oct. 16.
Daley, Michael T. (See Booty, Philip C. P., assignor.)
Dalton, John T., assignor of one-half to R. H. Wright, Durham, N. C. Bag making and filling machine. 1,688,268; Oct. 16.
Darby, William J., Modesto, Calif. Adjustable merchandise sales table. 1,688,003; Oct. 16.
Darmstadt, Peter, W. Stegmann, and V. Weil, Fechenheim, near Frankfort-on-the-Main, assignors to the firm Drahtindustrie Peter Darmstadt & Co., G. m. b. H., Frankfort-on-the-Main, Germany. Drawing ring for wire-drawing machines. 1,688,159; Oct. 16.
Darrow, William W. (See Tobin, K. J., and Darrow.)
Daugert, Peter, Wilkes-Barre, H. Frey, Kingston, and J. J. Dunleavy, Plymouth, Pa. Bracket for thread cleaners. 1,687,546; Oct. 16.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Fuse-setting device for projectiles. 1,687,644; Oct. 16.
David, Albert, assignor, by mesne assignments, to Dip-It, Inc., New York, N. Y. Dyeing composition. 1,687,751; Oct. 16.
Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Drying-room tumbler. 1,687,971; Oct. 16.
Davis, Oliver L., Glen Ridge, assignor to Joseph Walker Co., Irvington, N. J. Composition of matter for transfer designs. 1,688,117; Oct. 16.
Deakins, Grover C. (See Wilson, W. W., Deakins, and Shull.)
De Baun, John E., Saddle River, N. J. Internal-combustion engine. 1,687,547; Oct. 16.
De Can, Henry B., St. Maries, Idaho. Stove. 1,687,972; Oct. 16.
Deere & Company. (See Brown, Theophilus, assignor.)
De Fries, Walter, Wilkinsburg, assignor to Blaw-Knox Company, Hoboken, Pa. Reversing furnace and operating the same. 1,687,710; Oct. 16.
De Karske, Elmer A., Milwaukee, Wis. Display rack. 1,688,004; Oct. 16.
Delany, Edward L., Brooklyn, N. Y., and R. T. Charles, Bristol, Va., assignors to Delany Realty Corporation, Brooklyn, N. Y. Threaded connecting member. 1,688,269; Oct. 16.
Delany Realty Corporation. (See Delany, E. L., and Charles, assignors.)
Del Rosso, Amedeo, assignor of one-half to Emil Del Rosso, Chicago, Ill. Door lock. 1,688,207; Oct. 16.
Del Rosso, Amedeo, assignor of one-half to Emil Del Rosso, Chicago, Ill. Padlock. 1,688,208; Oct. 16.
Del Rosso, Emil. (See Del Rosso, Amedeo, assignor.)
Denz, Emil A., and J. E. Titus, Chicago, Ill. Frying machine. 1,688,315; Oct. 16.
Deray Manufacturing Corporation. (See De Veau, Harry R., assignor.)
De Sena y Freixns, Luis, Habana, Cuba. Mosquito bar (or net) carrier. 1,687,862; Oct. 16.
De Tirtoff, Romain (Erté), Paris, France, assignor to W. H. & A. E. Margerison & Co., Philadelphia, Pa. Towel. Des. 76,656; Oct. 16.
De Tirtoff, Romain (Erté), Paris, France, assignor to W. H. & A. E. Margerison & Co., Philadelphia, Pa. Towel. Des. 76,657; Oct. 16.
De Veau, Harry R., Stamford, Conn., assignor to Deray Manufacturing Corporation, Dover, Del. Sliding automobile seat. 1,688,316; Oct. 16.
De Willy, Francis, Los Angeles, Calif. Transformer. 1,687,973; Oct. 16.
Dickerson, Rawson P., East Orange, N. J. Paper cup. 1,687,716; Oct. 16.
Dickie, David S., Seattle, Wash. Weed puller. 1,687,974; Oct. 16.
Dickinson, Harry S., Moline, Ill., assignor, by mesne assignments, to Emerson-Brantingham Corporation, Rockford, Ill. Tandem disk harrow. 1,688,025; Oct. 16.
Dickson, Cedric B., Wilkinsburg, Pa., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Ignition device. 1,688,005; Oct. 16.
Didcote, Ernest, Working, assignor to Advertising Machines Limited, London, England. Picture-displaying apparatus. 1,687,709; Oct. 16.
Diederich, Paul E., assignor to American Injector Company, Detroit, Mich. Hot-air register. 1,687,645; Oct. 16.
Dietz, Hans. (See Eichberg, A., and Dietz.)
Dietz, John T. (See Willett, Benedict E., assignor.)
Dinsmore, Frank L. (See Larson, E. S., and Dinsmore.)
Dip-It, Inc. (See David, Albert, assignor.)
Dishon, Willye F., Stanford, Ky. Automatic bleeding mechanism for air lines of train air-brake mechanism. 1,687,975; Oct. 16.
Dix, Howard W. (See Tapp, H. F., and Dix.)
Dodge Manufacturing Corporation. (See Strong, Arthur P., assignor.)
Doherty, William, West Philadelphia, Pa. Electric air-heating furnace. 1,688,270; Oct. 16.
Donohue, William J., et al. (See McMurtrie, W. B., and Gover, assignors.)
Dow Chemical Company, The. (See Gann, John A., assignor.)
Drahtindustrie Peter Darmstadt & Co. G. m. b. H. (See Darmstadt, P., Stegmann, and Weil, assignors.)
Drake, Charles B., Norfolk, Va. Valve. 1,687,493; Oct. 16.
Drake, Charles B., Norfolk, Va. Valve. 1,687,548; Oct. 16.
Draper Corporation. (See Northrop, Jonas, assignor.)
Drevitson, Carl B., Somerville, Mass. Tubing. 1,688,178; Oct. 16.
Droege, William H., Fort Wayne, Ind. Artificial plank. 1,688,138; Oct. 16.
Drumm, Elmer E., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Cooking utensil. 1,688,039; Oct. 16.
Ducas, Charles, New York, N. Y. Forced-draft device. 1,688,118; Oct. 16.
Dulsenberg, Charles E., San Francisco, Calif. Flash-light switch guard. 1,688,006; Oct. 16.
Duncan, Thomas S., assignor to Vickers Limited, Westminster, London, England. Valve and cock. 1,687,646; Oct. 16.
Dunleavy, John J. (See Daugert, P., Frey, and Dunleavy.)
Durand, Moise H., assignor to C. D. Blaikie, doing business as Smith, Richardson Co., Attleboro, Mass. Woven-wire fabric. Des. 76,609; Oct. 16.
Dwyer, James, Cleghorn, Iowa. Hame tug. 1,688,072; Oct. 16.
Earl, David G., Long Beach, Calif. Burglarproof bank construction. 1,687,833; Oct. 16.
Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear-grinding device. 1,687,661; Oct. 16.
Eclipse Machine Company. (See Dicksee, Cedric B., assignor.)
Eddison, William B., Irvington, N. Y. Oil-burning heating system. 1,687,549; Oct. 16.
Edgett, William E., Indian Orchard, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Heater connection. 1,687,931; Oct. 16.
Ehret, Cornelius D., Philadelphia, Pa. Method of and apparatus for compressing fluid. 1,687,550; Oct. 16.
Eichberg, Arthur, and H. Dietz, Chicago, Ill. Foot gear-forming machine. 1,688,007; Oct. 16.
Eldredge, Robert B. (See McNally, Joseph C., assignor.)
Electrolux Servel Corporation. (See von Platen, B. C., and Munters, assignors.)
Elevator Company of America. (See Rice, Joseph, assignor.)
Ellery, Robert L., Toledo, Ohio. Battery plate. 1,687,752; Oct. 16.
Ellett, Richard E., London, England. Toy animal. Des. 76,610; Oct. 16.
Ellis, Alvarado L. R., Swampscott, and C. W. Greene, Lynn, Mass., assignors to General Electric Company. Control of ordnance. 1,687,551; Oct. 16.
Elwell-Parker Electric Company, The. (See Abbe, Edward J., assignor.)
Embossing Company, The. (See Graham, Tom C., assignor.)
Emerson-Brantingham Corporation. (See Dickinson, Harry S., assignor.)
Engebretsen, Ragnvald, Brooklyn, N. Y. Antenna. 1,688,229; Oct. 16.
Engl, Josef, Grunewald, Berlin, Germany. Holding device. 1,688,008; Oct. 16.
English, Fred S., and T. L. Perry, New London, Conn., assignors to The Babcock Printing Press Manufacturing Company. Gripper-tensioning mechanism for presses. 1,687,753; Oct. 16.
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
Epstein, Kelli, Charlottenburg, Germany. Surgical appliance. 1,687,717; Oct. 16.
Essman, Herman G., New York, N. Y. Hand signal light. 1,688,179; Oct. 16.
Falbe, Erwin E., and Q. Rohrer, Cornell, Wis. Electric-lamp socket. 1,687,718; Oct. 16.
Fanning, William A., Chicago, Ill. Wall construction. 1,688,230; Oct. 16.
Faris, John N., Portland, Oreg. Ironing board. 1,687,754; Oct. 16.
Farrington, John F., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Secret signaling. 1,687,932; Oct. 16.
Farrington, John F., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical signaling system. 1,687,933; Oct. 16.
Fassbender, Henry, Council, Idaho. Box lifter. 1,687,552; Oct. 16.
Fay, Carl J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Sandwich toaster. 1,687,662; Oct. 16.
Fedler, Joseph H., Kansas City, Mo., assignor, by mesne assignments, to Modern Laundry Machine Manufacturing Company. Motor support for washing machines. 1,688,119; Oct. 16.
Ferguson, Harry, Belfast, Ireland. Tractor and tractor implement. 1,687,719; Oct. 16.

Ferris, Howard J., Harvard, Ill. Aeroplane swing. Des. 76,611; Oct. 16.
Ferry, Thomas F., Cleveland, Ohio. Vehicle spring shackle. 1,688,180; Oct. 16.
Finch, Spencer E., Bailey, N. C. Refuse receiving and handling apparatus. 1,688,271; Oct. 16.
Findlay, Robert, Manufacturing Company. (See Schwartz, Frederick, assignor.)
Fink, Charles F., assignor, by mesne assignments, to Commonwealth Bank of Baltimore, Baltimore, Md. Screw driver. 1,688,181; Oct. 16.
Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Refrigerator-car construction. 1,687,934; Oct. 16.
Firestone Tire and Rubber Company, The. (See Kohsiek, John H., assignor.)
Fish, Albert L. (See Higgins, H., Fish, and O'Hare.)
Fishel, Robert G., Chicago, Ill. Display sign and means for mounting the same. 1,688,139; Oct. 16.
Fisher, Albert H., East Cleveland, assignor of one-half to D. M. Stafford, Lakewood, Ohio. Window construction. 1,688,231; Oct. 16.
Fisher, Robert B., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Lubrication of sleeve-principle engines. 1,687,494; Oct. 16.
Fisk Rubber Company, The. (See Castricum, M., and Butterfield, assignors.)
Fisk Rubber Company, The. (See Edgett, William E., assignor.)
Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
Fitzgerald, Guy W., Union, assignor of one-half to H. C. Shear, Waterloo, Iowa. Terminal connecter. 1,688,182; Oct. 16.
Fitzgerald, John M., River Forest, Ill. Reenforced concrete cribbing. 1,688,305; Oct. 16.
Fitzgerald Mfg. Company, The. (See Reichold, Ludwig, assignor.)
Fleischmann, The. (See Hoffman, C., Frey, and Hildebrandt, assignors.)
Flinn, William H., assignor, by mesne assignments, to Precision Gauge & Tool Company, Detroit, Mich. Lathe center. 1,688,040; Oct. 16.
Flynn, Francis K. (See Wilkes, F. C. D., and Flynn.)
Foley, John W., Chicago, Ill. Roller bearing. 1,687,755; Oct. 16.
Foley, John W., Chicago, Ill. Roller bearing. 1,687,756; Oct. 16.
Fontaine, Jesse W., Salinas, assignor to H. W. Hall, San Francisco, Calif. Suspension device for maps, etc. 1,687,859; Oct. 16.
Ford, Horace, assignor of one-half to C. L. Stockhausen, Baltimore, Md. Concrete-form clamp. 1,687,976; Oct. 16.
Ford, Horace, assignor of one-half to C. L. Stockhausen, Baltimore, Md. Concrete-form clamp. 1,687,976; Oct. 16.
Fornaca, Guido, Turin, Italy. Expanding-shoe brake. 1,687,608; Oct. 16.
Forrest, Charles N., and J. S. Miller, jr., Rahway, N. J., and C. S. Babb, Chicago, Ill., assignors to The Barber Asphalt Company, Philadelphia, Pa. Bituminous mastic. 1,688,041; Oct. 16.
Forstmann, Julius, & Co. (See Ackerman, Francis E., assignor.)
Fosnaugh, George S., and B. Johnson, Naples, Calif. Slush-pump valve. 1,687,860; Oct. 16.
Fouletier, Louis, Grenoble, France. Spring-pressure button. 1,688,272; Oct. 16.
Fowler, Edward J., Redwood City, Calif., assignor to Nichols Copper Company, New York, N. Y. Furnace rabble arm. 1,687,935; Oct. 16.
Francisco, Fred C. (See Bodle, V. H., and Francisco.)
Frank, O. E., Heater & Engineering Co. (See Frank, Olive E., assignor.)
Frank, Olive E., assignor to O. E. Frank Heater & Engineering Co., Inc., Buffalo, N. Y. Heat interchanger. 1,688,183; Oct. 16.
Frankart, Inc. (See von Frankenberg, Arthur, assignor.)
Frazier, Jesse L. (See Schwieren, Anton, assignor.)
Frederickson, Clayton E., Chicago, Ill. Traction wheel and chain. 1,687,834; Oct. 16.
Frey, Charles N. (See Hoffman, C. Frey, and Hildebrandt.)
Frey, Henry. (See Daugert, P., Frey, and Dunleavy.)
Fried. Krupp Aktiengesellschaft. (See Böhle, Karl, assignor.)
Friedlander, Samuel, Astoria, and T. Geismar, Jamaica, N. Y. Sanitary telephone mouthpiece. 1,687,553; Oct. 16.
Fry, Byron G., assignor of one-half to E. R. Williams, Glendale, Calif. Catapult. 1,687,757; Oct. 16.
Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Drying brick and tunnel therefor. 1,688,306; Oct. 16.
Fyrac Manufacturing Co. (See Aldeen, Gedor W., assignor.)
Gaess, Helmuth J., Palisade, N. J. Compact box. 1,688,042; Oct. 16.
Gallie, George, and B. D. Porritt, London, assignors to The Research Association of British Rubber and Tyre Manufacturers, Croydon, England. Apparatus for removing large-sized particles and aggregates from certain finely-divided powders and the like. 1,688,307; Oct. 16.
Gallimore, Keith F. (See Kempton, H. E., and Gallimore.)
Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Alloy. 1,688,043; Oct. 16.
Gansfried, Eugene, New Brunswick, N. J. Leakageproof spring-secured safety valve. 1,687,554; Oct. 16.
Garner, Frank, Chicago, Ill. Hydraulic steering mechanism. 1,687,720; Oct. 16.
Garnett, Henry J. (See Smith, W. S., Garnett, and Holden.)
Garvey, Christopher A., deceased, Clayton, Mo.; J. S. Garvey, executrix. Inscribing instrument. 1,687,647; Oct. 16.
Garvey, Jennie S., executrix. (See Garvey, Christopher A.)
Gasiorowski, Ernst, Hermsdorf, Berlin, Germany, assignor to General Electric Company. Recording apparatus for relays. 1,687,555; Oct. 16.
Gebres, Hewitt A., Mount Vernon, Ohio. Driving mechanism for engine accessories. 1,687,609; Oct. 16.
Geier, P. A., Company, The. (See Hedges, George L., assignor.)
Geismar, Theodore. (See Friedlander, S., and Geismar.)
Geller, Leon W., Hamburg, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Monazo dyes from pyrazolones and aminobenzene-polysulphonic acids. 1,688,044; Oct. 16.
Geller, Leon W., Hamburg, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Monazo dyes from disulphonaphthyl pyrazolones and o-aminohydroxybenzenes. 1,688,045; Oct. 16.
Gelman, Morris, and F. Urschler, sr., Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Induction regulator. 1,687,648; Oct. 16.
Gem City Stove Manufacturing Co. (See Rupp, Henry J., assignor.)
Gemex Company. (See Prestinari, Eugen, assignor.)
General Electric Company. (See Carlson, Wendell L., assignor.)
General Electric Company. (See Ellis, A. L. R., and Greene, assignors.)
General Electric Company. (See Gasiorowski, Ernst, assignor.)
General Electric Company. (See Henkel, E., and Wolff, assignors.)
General Electric Company. (See Hilliard, John D., assignor.)
General Electric Company. (See Hull, John I., assignor.)
General Electric Company. (See Kellogg, Edward W., assignor.)
General Electric Company. (See Langley, Ralph H., assignor.)
General Electric Company. (See Liddiard, Hugh W. C., assignor.)
General Electric Company. (See Lubowsky, Kurt, assignor.)
General Electric Company. (See Moffit, T. O., and Braunsdorff, assignors.)
General Electric Company. (See Nolte, Henry J., assignor.)
General Electric Company. (See O'Neil, James A., assignor.)
General Electric Company. (See Perkins, Frank C., assignor.)
General Electric Company. (See Perry, Charles L., assignor.)
General Electric Company. (See Pipkin, Marvin, assignor.)
General Electric Company. (See Reist, Henry G., assignor.)
General Electric Company. (See Roberson, Frank, assignor.)
General Electric Company. (See Van Horn, I. H., and Pipkin, assignors.)
General Motors Corporation. (See Neale, Fred, assignor.)
Gerber, Arthur B. (See Booth, C. F., Gerber, and Logue.)
Gerling, Ernst, Ohligs-Solingen, Germany. Apparatus for assembling knives. 1,687,978; Oct. 16.
Gillett, Frank L., Los Angeles, Calif. Cutter-clearance gauge. 1,687,649; Oct. 16.
Gillingham, Charles A., Lakewood, Ohio, assignor to National Carbon Company, Inc. Primary cell. 1,688,073; Oct. 16.
Gillis, Sidney B., Enumclaw, Wash. Snowplow. 1,688,009; Oct. 16.
Gilman Fanfold Corporation, Limited. (See Stevenson, Ralph C., assignor.)
Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Automobile end door. 1,688,140; Oct. 16.
Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Uncoupling device for railway-car couplers. 1,688,141; Oct. 16.
Giragosian, Bedros, Watertown, Mass. Latch. 1,687,650; Oct. 16.
Glacifer Company. (See Scarlett, George B., assignor.)
Glaeser, Ado, Woodhaven, N. Y. Paper punch. 1,687,758; Oct. 16.
Glosh, Frederick P., assignor to The Triumph Manufacturing Company, Cincinnati, Ohio. Speed-changing mechanism. 1,687,721; Oct. 16.
Gluck, Julius. (See Milecz, Rudolph, assignor.)

Godske, Carlyle E., Racine, Wis. Awning construction. 1,688,010; Oct. 16.

Goff, Jess, assignor of one-third to O. R. Bartram, Los Angeles, Calif. Manhole safety cage. 1,688,074; Oct. 16.

Gogan, Joseph, Cleveland, Ohio. Forming and tempering apparatus. 1,688,142; Oct. 16.

Goldberg, Jacob M. (See Goldberg, Louis B., N., W., and J. M.)

Goldberg, Louis B. N., W., and J. M., Denver, Colo. Poleless tent. 1,687,722; Oct. 16.

Goldberg, Nathan. (See Goldberg, Louis B., N., W., and J. M.)

Goldberg, William. (See Goldberg, Louis B., N., W., and J. M.)

Goldfinger, Hyman, Astoria, N. Y., assignor of fifty one-hundredths to G. Lipschutz, Irvington, N. J. Apparatus for cutting fowls. 1,687,663; Oct. 16.

Goodrich, B. F., Company, The. (See Bodle, V. H., and Francisco, assignors.)

Goodrich, B. F., Company, The. (See Warner, Noah L., assignor.)

Goodrich, Chauncey M., Windsor, Ontario, Canada. Electrification pole. 1,687,979; Oct. 16.

Goodsell, Ira R., Tulsa, Okla. Valve-spring compression. 1,687,723; Oct. 16.

Gordon, Chester S., Boonton, and J. T. Lowe, Newark, N. J., assignors to American Telephone and Telegraph Company. Insulator. 1,687,495; Oct. 16.

Gordon, Chester S., New York, N. Y., and J. T. Lowe, Newark, N. J., assignors to American Telephone and Telegraph Company. Reduction of attenuation due to the conductance losses in cross arms and insulator pins. 1,687,556; Oct. 16.

Gotsch, Lawrence E. (See Pearne, F. D., and Gotsch.)

Gould & Eberhardt. (See Zimmermann, William F., assignor.)

Gouverneur, Minor F. H., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator-knurling device. 1,687,759; Oct. 16.

Gouverneur, Minor F. H., Victor, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,688,011; Oct. 16.

Gover, Walter B. (See McMurtrie, W. B., and Gover.)

Gow, Charles R., Company. (See Smith, H. R., and Case, assignors.)

Graham, Percival G., Enfield, near Sydney, New South Wales, Australia. Lubricating apparatus. 1,688,075; Oct. 16.

Graham, Tom C., assignor to The Embossing Company, Albany, N. Y. Domino and making the same. Re17,103; Oct. 16.

Graham, Walton C., Denver, Colo. Filter. 1,687,863; Oct. 16.

Grand Specialties Company. (See Sasgen, Michael J. assignor.)

Grant, Richard F., et al. (See Wetherbee, Herbert E., assignor.)

Grasselli Dyestuff Corporation. (See Spengler, O., and Müller, assignors.)

Grasselli Dyestuff Corporation. (See Weinand, Klaus, assignor.)

Gray, Philander R., assignor to Gray Processes Corporation, Newark, N. J. Apparatus for contacting fluids with solids. 1,688,012; Oct. 16.

Gray Processes Corporation. (See Gray, Philander R., assignor.)

Gray Processes Corporation, The. (See Phillips, E. B., and Stafford, assignors.)

Grayson Engine Company Limited. (See Grayson, George W., assignor.)

Grayson, George W., assignor to Grayson Engine Company Limited, Sydney, New South Wales, Australia. Piston. 1,688,076; Oct. 16.

Great Northern Paper Company. (See Cram, Hervey G., assignor.)

Green, Estill I. (See Affel, H. A., and Green.)

Greenawalt, Lewis J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostat. 1,687,664; Oct. 16.

Greene, Albert E., Medina, Wash. Electric furnace and method of operation. 1,687,936; Oct. 16.

Greene, Albert E., Medina, Wash. Electric furnace and electrode crane. 1,687,937; Oct. 16.

Greene, Chester W. (See Ellis, A. L. R., and Greene.)

Greenfield, Benjamin. (See Klees, A. L., Greenfield, and Ackermann.)

Greenstein, Abraham, Brooklyn, N. Y. Adjustable headgear. 1,688,013; Oct. 16.

Griffin, Thomas E., West Haven, Conn. Toy. 1,687,610; Oct. 16.

Griswold, Andrew E., Seattle, Wash. Safety switch. 1,687,835; Oct. 16.

Gröndal, Johan G., Djursholm, Sweden. Method and apparatus for handling bituminous materials. 1,687,760; Oct. 16.

Gruber, Harry J., New York, N. Y. Lighting fixture. Des. 76,613; Oct. 16.

Guyton & Cumfer Mfg. Co. (See McFarland, Owen D., assignor.)

Gyro Process Corporation. (See Ramage, Alexander S., assignor.)

H. & M. Patents Limited. (See Turner, George A., assignor.)

Hagelman, Anna, Houston, Tex. Virgin-bust former and supporter. 1,688,143; Oct. 16.

Hahn, Waldo F., Tampa, Fla. Warning signal for pneumatic tires. 1,687,761; Oct. 16.

Hale, Benton B., et al. (See Rave, Elmer M., assignor.)

Hall, Adelbert E., Bay City, Mich. Valve gear. 1,687,557; Oct. 16.

Hall, Frederick P., Newark, N. J., assignor to Simplex Radio Devices, Inc., New York, N. Y. Microcoupler. 1,687,762; Oct. 16.

Hall, Harry W. (See Fontaine, Jesse W., assignor.)

Haller, Arnold. (See Wirz, E., Haller, and Kuntze.)

Halliburton, Virgil F. (See Lawrence, F., and Halliburton.)

Haltenberger, Jules, assignor to Jules Haltenberger, Incorporated, Indianapolis, Ind. Internal-combustion engine. 1,688,294; Oct. 16.

Haltenberger, Jules, Incorporated. (See Haltenberger, Jules, assignor.)

Hamer, Louis, Montreal, Quebec, Canada. Electric switch. 1,687,611; Oct. 16.

Hamilonoff, Simon A., assignor of two-thirds to W. Zachs and J. Safran, Hartford, Conn. Frost-prevention device for windows. 1,688,014; Oct. 16.

Hamilton, Perry H., Baltimore, Md., assignor to Maintenance Equipment Company, Chicago, Ill. Apparatus for cleaning ballast. 1,687,724; Oct. 16.

Hampton, William H., New York, N. Y. Process of and apparatus for treating shale and the like. 1,687,763; Oct. 16.

Hanna, Clinton R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Microphone circuit. 1,687,665; Oct. 16.

Hanna, Howard M., et al. (See Wetherbee, Herbert E., assignor.)

Hanson, Bengt M. W., deceased, by C. E. Whitney and E. A. Hanson, executors, Hartford, Conn., now by resignation E. A. Hanson, sole executor. Machine for grinding fluted tools. 1,687,725; Oct. 16.

Hanson, Einar A., et al., executors. (See Hanson, Bengt M. W.)

Harding, Dana E., Melrose, assignor to Harding Engineering Company, East Boston, Mass. Electrical area-measuring device. 1,688,308; Oct. 16.

Harding Engineering Company. (See Harding, Dana E., assignor.)

Harkin, James P., Thornbury, Australia. Molding rubber draining boards for sinks. 1,688,232; Oct. 16.

Harnly, David H., Chicago, Ill. Weatherproofing structure. 1,687,666; Oct. 16.

Harrold, Fredrick, Mansfield, Ohio. Shoe-tree. 1,687,558; Oct. 16.

Hart, William C., Adelaide, South Australia, Australia. Labeling canned and bottled goods. 1,688,077; Oct. 16.

Hartmann, Ernest E., assignor to Petree & Dorr Engineers, Inc., New York, N. Y. Handling cane juice. 1,688,184; Oct. 16.

Haslinger, Anton, Rockledge, Philadelphia, Pa. Automatic cut-off for stopcocks. 1,688,233; Oct. 16.

Hawley, George D., Lowell, Mass. Spool holder. 1,688,273; Oct. 16.

Hawley, Kent A., New York, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,688,015; Oct. 16.

Hawley, William E., Pittsburgh, Pa. Switch panel. 1,688,078; Oct. 16.

Haynes, Bryce, New York, N. Y. Testing or demonstrating apparatus. 1,688,274; Oct. 16.

Hazard, George E., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Valve. 1,688,185; Oct. 16.

Headley, Frederick H., Northfield, near Birmingham, England. Perambulator and the like. 1,687,726; Oct. 16.

Hedges, George L., assignor to The P. A. Geier Company, Cleveland, Ohio. Clothes-wringer mechanism. 1,687,764; Oct. 16.

Hedgion, Mead, Syracuse, N. Y. Wall cabinet for ironing machines. 1,687,765; Oct. 16.

Hedgion, Mead, Syracuse, N. Y. Table for ironing machines. 1,687,766; Oct. 16.

Hedgion, Mead, Syracuse, N. Y. Folding table for ironing machines. 1,687,767; Oct. 16.

Heidbrink, Jay A., Minneapolis, Minn. Clamp for anæsthetizing machines. 1,687,768; Oct. 16.

Heilman, Marlin W., Tarentum, Pa. Sterilizer. 1,688,144; Oct. 16.

Held Machine Company, The. (See Kempton, H. E., and Gallimore, assignors.)

Helmes, Maximilian J., assignor to Q & C Company, New York, N. Y. Derail. 1,687,667; Oct. 16.

Helstrom, Julmer, Virginia, Minn. Dirigible headlight. 1,688,275; Oct. 16.

Henkel, Erich, Treptow, Berlin, and H. Wolff, Berlin, Germany, assignors to General Electric Company. Incandescent lamp. 1,687,496; Oct. 16.

Hennock, Conrad, Frisco, Colo. Carbide-lamp holder. 1,688,234; Oct. 16.

Herman, Edward B., Watertown, Mass. Check-controlled article-delivery apparatus. 1,687,612; Oct. 16.

Herman, Henry F., Chappaqua, N. Y., assignor to Straitline Radio Corporation, New York, N. Y. Cabinet. 1,687,559; Oct. 16.

Hernacki, John, Chicago, Ill. Collapsible hat and coat rack. 1,687,613; Oct. 16.

Hershey Manufacturing Company. (See Hershey, Orville S., assignor.)

Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,687,836; Oct. 16.

Hershman, Okla H., Indianapolis, Ind. Price rack. Des. 76,614; Oct. 16

Hertzberg, William, Brooklyn, N. Y. Mop holder. 1,687,769; Oct. 16.

Hess, Duncan C., Chester, Pa., assignor to Westinghouse Electric and Manufacturing Company. Auxiliary ram for stokers. 1,687,614; Oct. 16.

Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 76,615; Oct. 16.

Higgins, Harlin, A. L. Fish, and J. L. O'Hare, Faith, S. Dak. Crank-case drainer. 1,687,980; Oct. 16.

Hildebrandt, Frank M. (See Hoffman, C., Frey, and Hildebrandt.)

Hill, D. Stanley, Effingham, Ill. Articulator for artificial dentures. 1,687,864; Oct. 16.

Hilliard, John D., Schnectady, N. Y., assignor to General Electric Company. Electric switch. 1,687,560; Oct. 16.

Himes, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing. 1,687,668; Oct. 16.

Hindle, John H. and T., Haslingden, England. Shedding mechanism for looms for weaving. 1,687,865; Oct. 16.

Hindle, Thomas. (See Hindle, John H. and T.)

Hinds, Sherwood, Richmond Heights, assignor to St. Louis Pump & Equipment Company, St. Louis, Mo. Dispensing apparatus. 1,688,314; Oct. 16.

Hinrichsen, Edward E., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Trunk-testing circuits for selector switches. 1,687,669; Oct. 16.

Hinz, Otto, and R. Merrell, Los Angeles, Calif. Multiple ice-cream disher. 1,688,079; Oct. 16.

Hodge, Robert J., assignor to The American Buckle Co., West Haven, Conn. Slide buckle. 1,688,046; Oct. 16.

Hodgson, Harriette E., New York, N. Y. Stocking-darning form. 1,688,047; Oct. 16.

Hoecker, Albert C., assignor of one-third to P. F. Krause, St. Louis, Mo. Piston for internal-combustion motors. 1,687,837; Oct. 16.

Hoffman, Charles, Tuckahoe, N. Y., and C. N. Frey and F. M. Hildebrandt, Warren, Ohio, assignors, by mesne assignments, to The Fleischmann Company, New York, N. Y. Clarifying cane molasses for the growing of yeast. 1,688,236; Oct. 16.

Hoffman, Louis, St. Paul, Minn., assignor to Steam Pressing Iron Company, Chicago, Ill. Pressing implement. 1,687,562; Oct. 16.

Holden, John A. (See Smith, W. S., Garnett, and Holden.)

Honigmann, Ludwig, Bad Tolz, and F. Bartling, Munich, Germany. Revolving-ring oven. 1,687,563; Oct. 16.

Hope, Henry, and Sons, Limited. (See Hope, Ralph W., assignor.)

Hope, Ralph W., Edgbaston, Birmingham, assignor to Henry Hope and Sons, Limited, Birmingham, England. Hinge for casement windows. 1,688,235; Oct. 16.

Horn, Charles W., Seattle, Wash. Fountain pen. 1,688,236; Oct. 16.

Hoseth, Tom, Seattle, Wash. Measuring device. 1,688,080; Oct. 16.

Hubbard, Adra M., Dallas, Tex. Steam generator. 1,687,615; Oct. 16.

Hudson Brass Works, Inc. (See Scheidacker, Hans T., assignor.)

Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Automatic control of dynamo-electric machines. 1,687,564; Oct. 16.

Humphreys, Ira B., Denver, Colo. Air vehicle. 1,688,186; Oct. 16.

Hunt, Chester, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for applying adhesive strips to soles. 1,687,565; Oct. 16.

Hunt, Leigh, assignor to Oro-Tone Company, Chicago, Ill. Sound-control construction. 1,687,566; Oct. 16.

Hussey, Pliny E., Beverly, Mass. Saw guard. 1,687,670; Oct. 16.

Hutto, Marsden C., Detroit, Mich. Manufacture of abrasive devices. 1,687,770; Oct. 16.

Huye, Joseph G., New Orleans, La. Display stand. 1,687,616; Oct. 16.

Ile, William, assignor to Reynolds Spring Company, Jackson, Mich. Two-way socket unit. 1,687,569; Oct. 16.

International Paper Company. (See Read, Robert E., assignor.)

International Time Recording Company of New York. (See Bryce, James W., assignor.)

Irvine, Richard K., Visalia, Calif. Display stand. 1,688,048; Oct. 16.

Ives, Herbert E., Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Transmission of pictures by electricity. 1,688,081; Oct. 16.

Jack, Carl, Bern, Switzerland, assignor of one-fourth to United Piece Dye Works. Printing block or cylinder. 1,687,498; Oct. 16.

Jackson, Arthur C., and W. Kroll, Philadelphia, Pa., assignors, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. 1,688,187; Oct. 16.

Jackson, Simeon S., Hyde Park, assignor to The Stafford Company, Boston, Mass. Weft-replenishing loom. 1,688,309; Oct. 16.

Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)

Jacobi, Edward N., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Door latch for automobiles. 1,687,497; Oct. 16.

Jaffe, Joseph L., and F. Wening; said Wening assignor to said Jaffe, Cleveland, Ohio. Lighting fixture. 1,688,120; Oct. 16.

James Manufacturing Company. (See Shodron, John G., assignor.)

James, Wathen M., Denver, Colo. Outdoor signboard. Des. 76,616; Oct. 16.

Jewell, Raymond L., Millcreek Township, Erie County, assignor to American Sterilizer Company, Erie, Pa. Water seal for cleaning devices. 1,687,617; Oct. 16.

Jewett, Nelson J. (See Smith, W. W. Trevellyan, and Jewett.)

Johnson, Bernard. (See Fosnaugh, G. S., and Johnson.)

Johnson, Charles S., Champaign, Ill. Batch hopper. 1,687,499; Oct. 16.

Johnson, J. P., Engineering Company, The. (See Johnson, James P., assignor.)

Johnson, James P., Cleveland Heights, assignor to The J. P. Johnson Engineering Company, Cleveland, Ohio. Variable-speed gearing. 1,687,567; Oct. 16.

Johnston, Wayburn E., Minneapolis, Minn. Vacuum oil burner. 1,687,771; Oct. 16.

Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Producing coils of flexible material and coils and core members relating to same. 1,687,938; Oct. 16.

Joncha, Anton, Maywood, Ill., assignor to Oil Products Appliance Co., Maywood, Ill. Tank pump. 1,688,237; Oct. 16.

Jones, Richard M., Northampton, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Steam generator. 1,687,568; Oct. 16.

Jones, Robert M., Stony Point, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,687,939; Oct. 16.

Jones, Robert V., Chicago, Ill. Machine for dispensing oil. 1,687,838; Oct. 16.

Jones, Zeddie E., San Francisco, Calif. Telephone attachment. 1,688,276; Oct. 16.

Jordan, Paul R., Indianapolis, Ind. Exhaust ventilator. 1,688,082; Oct. 16.

Judelson, Louis, New York, N. Y. Drier. 1,687,772; Oct. 16.

Judge, Arthur W., Cleveland, Ohio. Washout-plug wrench. 1,687,727; Oct. 16.

Jugo, José V., Buenos Aires, Argentina. Finger-exercising machine. 1,688,188; Oct. 16.

June, Perry E. (See June, William E., assignor.)

June, William E., Denver, Colo., assignor to P. E. June, Sacramento, Calif. Shelving construction. 1,687,671; Oct. 16.

Jurgens, Emil G. (See Becker, H. K., and Jurgens.)

Jurgensen, August P. (See Chayes, H. E. S., and Jurgensen.)

Jurgensen, August P., assignor to Chayes Dental Instrument Corporation, New York, N. Y. Removable dental bridgework. 1,688,145; Oct. 16.

Kahlen, Johannes W., Vancouver, British Columbia, Canada, assignor of one-half to U. L. Rhodes, Bellingham, Wash. Surgeon's safety saw for plaster casts. 1,687,773; Oct. 16.

Kamas, John C., Bellville, Tex. Stock barrier and crossing. 1,688,238; Oct. 16.

Karpf, Charles O., New York, N. Y. Continuous process of ornamenting floor coverings. 1,688,239; Oct. 16.

Kaufmann, Christian F., Heinrichsort, near Lichtenstein-Callnberg, assignor to David Richter A. G., Maschinenfabrik Tüllweberei, Chemnitz, Germany. Flat-knitting machine. 1,687,866; Oct. 16.

Kawamura, Kojiro, Tokyo-Fu, assignor of one-half to Y. Yokoyama, Kanazawa, Japan. Differential flotation process for mixed sulphide ores. 1,688,277; Oct. 16.

Kelgwin, Henry W., Mount Vernon, N. Y. Dead-locking latch. 1,688,240; Oct. 16.

Keim, Lester H. (See Burnham, L. F., Keim, and Schafer.)

Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Radio receiving system. 1,687,570; Oct. 16.

Kellogg Manufacturing Company. (See Hazard, George E., assignor.)

Kelp-O! Laboratories, Incorporated. (See Miller, G. C., Kurka, and Chase, assignors.)

Kempton, Herbert E., and K. F. Gallimore, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Method of and apparatus for loading machine tools. 1,687,981; Oct. 16.

Kenkel, John E., Great Falls, Mont. Advertising device for dispensing machines. 1,688,278; Oct. 16.

Kennedy, Aubrey, M., New York, N. Y. Sound transmitting and receiving apparatus. 1,687,940; Oct. 16.

Kern, Erwin, Wettingen, Switzerland. Rectifier system. 1,688,189; Oct. 16.

Kieffer, Allen J., Hot Springs, S. Dak. Cotton-picking machine. 1,687,571; Oct. 16.

Kimball, Edwin R., assignor to The Aeroshade Company, Waukesha, Wis. Shade. 1,687,982; Oct. 16.

Klaasen, Benjamin J., Highland, Park, Mich. Hollow metal joist. 1,688,016; Oct. 16.
Klaus, Fred R., assignor to The American Welding and Manufacturing Company, Warren, Ohio. Demountable-rim structure. 1,688,146; Oct. 16.
Klees, Albert L., New York, and B. Greenfield, Jackson Heights, N. Y., and G. B. Ackermann, assignors to Cribben & Sexton Company, Chicago, Ill. Hot-air furnace. 1,687,983; Oct. 16.
Koenemann, Ernst, Berlin, Germany. Steam and other vapor power plant utilizing caustic soda or other auxiliary fluids. 1,687,941; Oct. 16.
Koenig, Robert H., Haddon Heights, N. J., assignor to Ruth Glass Company, Conshohocken, Pa. Machine for forming glass vials. 1,688,190; Oct. 16.
Kohsick, John H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire. Des. 76,617; Oct. 16.
Kokatnur, Vaman R. (See Stoddard, W. B., and Kokatnur.)
Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Regenerative channel oven. 1,687,774; Oct. 16.
Krafthefer, Minna B., Chicago, Ill. Clothes hanger. Des. 76,618; Oct. 16.
Krause, Paul F. (See Hoecker, Albert C., assignor.)
Kriegl, Emmerich, Glauchau, Germany. Chenille-making machine. 1,687,942; Oct. 16.
Kroll, Waldemar. (See Jackson, A. C., and Kroll.)
Kruger, Charles M., St. Louis, Mo. Carrying frame. 1,687,839; Oct. 16.
Kuhn, John D., Lawrence, Kans. Car-door hanger. 1,688,191; Oct. 16.
Kuntze, Karl. (See Wirz, E., Haller, and Kuntze.)
Kurka, Joseph F. (See Miller, G. C., Kurka, and Chase.)
Lafoon, Richard S., Richmond, Va. Weather shield. 1,688,241; Oct. 16.
La Hodny, William, assignor to Standard Mirror Company, Inc., Buffalo, N. Y. Rear-view mirror for automobiles. 1,687,572; Oct. 16.
Lahr, Harry L., assignor to The Ohio Match Company, Wadsworth, Ohio. Elevator mechanism for conveyers. 1,687,573; Oct. 16.
Lamb, Frank H., Hoquiam, Wash. Rail-connecting rod. 1,687,840; Oct. 16.
Lang, Franz, Munich, Germany, assignor, by mesne assignments, to Arco Aktiengesellschaft, Kussnacht am Rigi, Switzerland. Atomizing device. 1,687,672; Oct. 16.
Lang, Franz, Stuttgart, Germany, assignor to Acro Aktiengesellschaft, Kussnacht am Rigi, Switzerland. Internal-combustion engine. 1,687,673; Oct. 16.
Lange, Fritz H. (See Saltzman, J., and Lange.)
Lange, Hans O., Copenhagen, Denmark. Stuffing material. 1,687,867; Oct. 16.
Lange, Paul H., assignor to The Max Ams Machine Company, Bridgeport, Conn. Seaming machine. 1,687,943; Oct. 16.
Langley, Ralph H., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. 1,687,500; Oct. 16.
Langley, Ralph H., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. 1,687,868; Oct. 16.
La Pierre, Frank H., East Orange, assignor to La Pierre Manufacturing Company, Newark, N. J. Hand mirror or similar article. Des. 76,619; Oct. 16.
La Pierre Manufacturing Company. (See La Pierre, Frank H., assignor.)
Larson, Emil S., Stanton, and F. L. Dinsmore, Prescott, Iowa. Typewriter keyboard. 1,687,904; Oct. 16
Larson, John M., assignor to National Regulator Company, Chicago, Ill. Safety device for hot-air furnaces. 1,688,121; Oct. 16.
Lauenstein, Georg J. W., Barnstedt, near Luneburg, Germany. Agricultural carriage. 1,687,618; Oct. 16.
Lavell, Lulu V. (See Ornes, J. S., and Lavell.)
Lawrence, Frank, and V. F. Halliburton, Tulsa, Okla. Paper-towel-cabinet disposer. 1,688,242; Oct. 16.
Lawson, Victor R., assignor to Lawson-Whitehead Company, Boston, Mass. Loading rubber heel blanks with washers and tool for use in same. 1,687,674; Oct. 16.
Lawson-Whitehead Company. (See Lawson, Victor R., assignor.)
Ledbetter, James C., New York, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Power press. 1,688,049; Oct. 16.
Lederer, Irving R., Providence, R. I. Bracelet. Des. 76,620; Oct. 16.
Lee, Thomas. (See Purvis, M., and Lee.)
Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Mechanical toy. 1,687,675; Oct. 16.
Le Pere, John G., assignor to U. S. Manufacturing Corporation, Decatur, Ill. Handle construction. 1,687,619; Oct. 16.
Le Rasoir, Apollo. (See Valabrègue, René-Max, assignors.)
Lestage, Elle, New Bedford, Mass. Game device. 1,687,775; Oct. 16.
Levron, Maurice, Ivry, France. Air heater and the like. 1,688,147; Oct. 16.
Levy, Baruch, Brooklyn, N. Y. Sugar dispenser. 1,688,123; Oct. 16.
Lewis, Arlin A. (See Moon, Claborn F., assignor.)
Liddell, Moses V., Mattituck, N. Y. Gutter-broom attachment for sweeping machines. 1,687,728; Oct. 16.
Liddiard, Hugh W. C., Rugby, England, assignor to General Electric Company. Control mechanism for hoists, lifts, and the like. 1,687,501; Oct. 16.
Liebowitz, Irving. (See Stein, H. Austin, and Liebowitz.)
Limeres, Jesus L., Habana, Cuba. Machine for rounding gear wheels. 1,688,243; Oct. 16.
Lincoln, Rollo B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,687,676; Oct. 16.
Lipschutz, Gus. (See Goldfinger, Hyman, assignor.)
Liptak, Michael, St. Paul, Minn. Fire-wall construction. 1,688,192; Oct. 16.
Liss, August S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article-forming apparatus. 1,687,574; Oct. 16.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor and making the same. 1,687,67; Oct. 16.
Littleton, George N., Portland, Oreg. Fixture bracket. 1,688,193; Oct. 16.
Litty, John R., and T. B. Lundin, Philadelphia, Pa. Filling machine. 1,687,944; Oct. 16.
Locke Insulator Corporation. (See Gouverneur, Minor F. H., assignor.)
Locke Insulator Corporation. (See Hawley, Kent A., assignor.)
Locke, William S., assignor of one-half to Portland Realty and Trust Co., Portland, Oreg. Liquid-supply tank. 1,688,279; Oct. 16.
Logan, Henry H., Chicago, Ill. Shock absorber. 1,687,620; Oct. 16.
Logan, Henry H., Chicago, Ill. Automatic brake operator for incline hoists. 1,687,621; Oct. 16.
Logue, Paul. (See Booth, C. F., Gerber, and Logue.)
Lommen, Fred W., Pittsburgh, Pa., assignor to Carbide & Carbon Chemicals Corporation. Making olefine alcohol. 1,688,083; Oct. 16.
Long, W. E. Co., The. (See Long, William E., assignor.)
Long, William E., assignor to The W. E. Long Co., Chicago, Ill. Label blank. Des. 76,621; Oct. 16.
Loucks, Albert H., assignor to Marion Machine Foundry & Supply Co., Marion, Ind. Oiling mechanism for band-wheel power. 1,687,622; Oct. 16.
Lowe, James T. (See Gordon, C. S., and Lowe.)
Lowkrantz, Gunne, assignor to Ansco Photo-Products, Inc., Binghamton, N. Y. Edge-fog preventive for photographic-film strips. 1,688,050; Oct. 16.
Lubowsky, Kurt, Berlin, Germany, assignor to General Electric Company. Electric measuring system. 1,687,575; Oct. 16.
Luce Cane Harvester Corporation. (See Wilkes, F. C. D., and Flynn, assignors.)
Lucey, Patrick J., Chicago, Ill., assignor to D. A. Weir, receiver for Lucey Slicing Machine Co., South Bend, Ind. Slicing machine. 1,687,729; Oct. 16.
Ludington, Donald G., Masontown, Pa. Valve lifter. 1,688,280; Oct. 16.
Ludowici, Russell, Schenectady, N. Y. Traction rim for automobiles, trucks, and the like. 1,688,051; Oct. 16.
Lum, George R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmitter mounting. Des. 76,622; Oct. 16.
Lumen Bearing Company. (See Bierbaum, Christopher H., assignor.)
Lundin, Trued B. (See Litty, J. R., and Lundin.)
Lurcott, Charles E., assignor to Philadelphia Last & Pattern Co., Philadelphia, Pa. Last. 1,687,623; Oct. 16.
Lyon, Gustave, assignor to Société Anonyme Pleyel, Paris, France. Mechanical construction of pianos. 1,687,984; Oct. 16.
Lyons, James W., Oak Park, Ill. Differential-power transmission device. 1,688,194; Oct. 16.
MacDonald, Lester S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming unattached heels. 1,687,576; Oct. 16.
MacDonald, William, Dennison, Ohio. Inking attachment. 1,688,281; Oct. 16.
MacGahan, Paul, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. 1,687,624; Oct. 16.
MacGregor, Peter G., Pequannock, N. J., assignor to Pyrene Manufacturing Company, Newark, N. J. Fire extinguisher. 1,688,195; Oct. 16.
Mackenzie, Katherine M., assignor to J. S. Berliner, New York, N. Y. Toilet preparation. 1,687,625; Oct. 16.
MacLagan, Hector P., Oak Park, assignor to McIntosh Electrical Corporation, Chicago, Ill. Infra-red-ray generator. 1,688,124; Oct. 16.
Macomber, Stanley, Massillon, assignor to The Macomber Steel Company, Canton, Ohio. Bar-bending machine. 1,687,776; Oct. 16.
Macomber Steel Company, The. (See Macomber, Stanley, assignor.)
Madland, Gabriel. (See Tobin, K. J., Wasberg, and Madland.)
Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate. (See Phillipp, Richard, assignor.)
Mahan, Joseph R., and J. B. Picard, assignors to The National Supply Company, Toledo, Ohio. Driving means for rotary devices. 1,688,084; Oct. 16.
Maijgren, Thorvald, Rochester, N. Y. Cystoscope. 1,688,295; Oct. 16.

Maintenance Equipment Company. (See Hamilton, Perry H., assignor.)
Mallard, Logan L., Norfolk, Va. Rocker toy. 1,688,282; Oct. 16.
Mallory, George P., assignor to Sanitary Products Corporation of America, Philadelphia, Pa. Container or wrapper. 1,687,678; Oct. 16.
Mallory, Harry C., deceased, New York, N. Y.; S. R. Mallory, administratrix. Engine-cooling system. 1,687,679; Oct. 16.
Mallory, Sue R., administratrix. (See Mallory, Harry C.)
Manierre, George, Milwaukee, Wis. Power-operated portable loader. 1,687,841; Oct. 16.
Manner, Christian E., Homestead, Fla. Cotton-picker's sack. 1,687,577; Oct. 16.
Mansker, Benjamin H., Pickneyville, Ill. Road grader. 1,687,626; Oct. 16.
Marathon Company. (See Wojciechowski, Frank M., assignor.)
Marckworth, Otto S., Columbus, Ohio. Ornamental inlaid work. 1,687,578; Oct. 16.
Marcy, Ernest H., Belmont, Mass. Collapsible ampul syringe. 1,687,502; Oct. 16.
Marden, William L., assignor to Neptune Meter Company, New York, N. Y. Device for indicating variation in flow of liquids. 1,687,627; Oct. 16.
Margerison, W. H. & A. E., & Co. (See de Tirtoff, Romain (Erté), assignor.)
Marion Machine Foundry & Supply Co. (See Loucks, Albert H., assignor.)
Markel Electric Products, Inc. (See Yokel, Frank, assignor.)
Markem Machine Company. (See Putnam, Carl E. and F. A., assignors.)
Markem Machine Company. (See Putnam, Fred A., assignor.)
Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire building. 1,687,945; Oct. 16.
Marschall, Gustav, Far Rockaway, N. Y. Advertising device. 1,688,317; Oct. 16.
Marsden, John E., Philadelphia, Pa. Electric heater fan. 1,688,052; Oct. 16.
Marshall Field & Company. (See Seitzinger, William M., assignor.)
Marshall Field & Company. (See Thompson, John W., assignor.)
Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. All-metal door construction. 1,688,085; Oct. 16.
Marston, William P., jr., Lake Crystal, Minn. Cutter. 1,687,869; Oct. 16.
Martin, Abner R., Chester, Vt. Adjustable lamp holder. 1,688,148; Oct. 16.
Martin, Allan F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Rheostat. 1,687,628; Oct. 16.
Martin, Frederick C., Delphi, Ind. Speed boat. Des. 76,623; Oct. 16.
Massarella, John, Cincinnati, Ohio. Confectionery-coating machine. 1,688,149; Oct. 16.
Massiot, Georges, Paris, France. Apparatus for checking the profiles of gear wheels, the pitch of screws, and similar articles. 1,687,946; Oct. 16.
Masson, Marcel, Vincennes, France. Plastic display. 1,688,196; Oct. 16.
Matson, Carl E., Chicago, Ill. Window device. 1,687,870; Oct. 16.
Matthews, Howard D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control device. 1,687,680; Oct. 16.
Mattison, Richard V., Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company. Cement product. 1,687,681; Oct. 16
Matzelle, Ferdinand, Saginaw, Mich. Dough cutter. 1,688,283; Oct. 16.
Mayer, Godfried J., Buffalo, N. Y. Mechanism for operating screw machines and the like. 1,688,197; Oct. 16.
Mayhew, Sidney W., Waiuta, New Zealand. Direction indicator for vehicles. 1,688,086; Oct. 16.
Maynard, Arthur H, Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Stapling machine or tacker. 1,687,871; Oct. 16.
Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for tube manufacture. 1,687,872; Oct. 16.
Maze, Gail D. (See Werner, Earl W., assignor.)
Mazzocco, James, Gallup, N. Mex. Beet-topping machine. 1,687,730; Oct. 16.
McCabe, Ira E., Chicago, Ill. Expansible and contractible element and mounting therefor. 1,687,842; Oct. 16.
McCoy, Walter E., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,687,629; Oct. 16.
McFarland, Owen D., assignor to Guyton & Cumfer Mfg. Co., Chicago, Ill. Machine for producing flexible roofing elements. 1,687,873; Oct. 16.
McGill, Elwin E., Kansas City, Mo. Bottle and closure. 1,688,198; Oct. 16.
McIntosh Electrical Corporation. (See MacLagan, Hector P., assignor.)
McKee, Robert G., Indianapolis, Ind. Vehicle jack. 1,687,503; Oct. 16.
McKune, Frank B., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Operation of open-hearth furnaces. 1,687,682; Oct. 16.
McLean, John, Lime, Oreg. Fuse cutting, splitting, and capping machine. 1,688,122; Oct. 16.
McMullan, Samuel, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material holder. 1,687,579; Oct. 16.
McMurtrie, William B., and W. B. Gover, Shidler, assignors of one-half to W. J. Donohue and one-half to F. Wolfe, Tulsa, Okla. Polish rod grip. 1,687,777; Oct. 16.
McNally, Joseph C., assignor of one-half to R. B. Eldredge, Denver, Colo. Adjustable fastening means. 1,687,874; Oct. 16.
McRae, Randolph J., assignor to C. V. Bob, New York, N. Y. Transporting crate for luminous tubes or other fragile articles. 1,687,630; Oct. 16.
Menker Company, The. (See Miller, C. G., and Cleveland, assignors.)
Megeath, Samuel A., New York, N. Y. Refrigerator basket. 1,688,125; Oct. 16.
Meier, Albert H., Evansville, Ind. Pipe vise and bender. 1,688,199; Oct. 16.
Meicer, Ralph H., assignor to The Palmer Brothers Company, New London, Conn. Bed comfortable. 1,687,580; Oct. 16.
Meller, Reginald B., Alameda, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Display stand. 1,687,875; Oct. 16.
Mercer, Richard, Harrow, and F. Tench, London, England, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,688,150; Oct. 16.
Merimer, Stephan P., Toledo, Ohio. Glass-grinding machine. 1,687,985; Oct. 16.
Merrell, Russell. (See Hinz, O., and Merrell.)
Metallogén Gesellschaft mit beschränkter Haftung. (See Meurer, Nikolaus, assignor.)
Metcalfe, Robert F., Brooklyn, assignor to Socony Burner Corporation, New York, N. Y. Method of and apparatus for control of liquid-fuel burners. 1,688,126; Oct. 16.
Meurer, Nikolaus, Berlin-Neu-Tempelhof, assignor to Metallogen Gesellschaft mit beschrankter Haftung, Berlin-Neukolln, Germany. Impregnating metal layers. 1,688,127; Oct. 16.
Michalski, Julius L., Milwaukee, Wis. Illuminated barber pole. 1,688,017; Oct. 16.
Mid-States Gummed Paper Co. (See Mittendorf, Theodor H., assignor.)
Milano Furniture Company. (See Heyman, Joseph J., assignor.)
Milecz, Rudolph, Hoboken, N. J., assignor to J. Gluck, New York, N. Y. Tool holder. 1,688,284; Oct. 16.
Milestone, Walter E., Lakewood, Ohio. Cabinet for fluid-dispensing outfit. Des. 76,624; Oct. 16.
Miller, Allen O., Seattle, Wash. Ventilator. 1,687,843; Oct. 16.
Miller, Constantine G., and C. F. Cleveland, Chicago, Ill., assignors to The Menker Company. Pickling machine. 1,687,844; Oct. 16.
Miller, George H., Chico, Calif. Weeding hoe. 1,687,986; Oct. 16.
Miller, Grover C., South Pasadena, and J. F. Kurka and L. B. Chase, assignors to Kelp-Oil Laboratories, Incorporated, Los Angeles, Calif. Agar medical compound. 1,688,053; Oct. 16.
Miller, John O., Chicago, Ill., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Device for chalking cue tips. 1,688,310; Oct. 16.
Miller, John O., Chicago, Ill., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Device for chalking cue tips. 1,688,311; Oct. 16.
Miller, John S., jr. (See Forrest, C. N., Miller, and Rabb.)
Miller Rubber Company, The. (See Collins, Arthur E., assignor.)
Miller Rubber Company, The. (See Steele, Charles W., assignor.)
Mirzan, Richard A., Syracuse, N. Y. Anchoring bolts. 1,688,087; Oct. 16.
Mittendorf, Theodor H., assignor to Mid-States Gummed Paper Co., Chicago, Ill. Package and dispenser for gummed tape. 1,687,731; Oct. 16.
Mitton, Robert E., Salt Lake City, Utah. Rudder-bar retainer. 1,687,732; Oct. 16.
Moccetti, Ernest, deceased, by L. Moccetti, administratrix, New York, N. Y. Compound structure. 1,688,128; Oct. 16.
Moccetti, Louise, administratrix. (See Moccetti, Ernest.)
Modern Laundry Machine Manufacturing Company. (See Fedler, Joseph H., assignor.)
Moeser, Hugo, New York, N. Y. Alarm device. 1,687,876; Oct. 16.
Moffit, Thomas O., Chicago, Ill., and R. K. Braunsdorff, Newark, N. J., assignor to General Electric Company. Precision-basing machine for incandescent lamps and similar articles. 1,687,504; Oct. 16.
Mögel, Ernst, Meissen-on-the-Elbe, Germany, assignor to the firm Aktiengesellschaft für Cartonnagenindustrie, Dresden, Germany. Apparatus for the grooving of cardboard. 1,687,683; Oct. 16.
Moir, William A., Halifax, Nova Scotia, Canada. Confection-coating machine. 1,687,947; Oct. 16.
Molstad, Carl, Newfolden, Minn. Cleaner for skimming disks of cream separators. 1,688,244; Oct. 16.
Monroe Embroidery Works. (See Walder, John, assignor.)

Moody, William C. (See Winstead, M. A., Reid, and Moody.)
Moon, Claborn F., Franklinville, assignor of one-half to A. A. Lewis, Greensboro, N. C. Adjustable gear wheel. 1,687,987; Oct. 16.
Moore, Pascal B., New York, N. Y. Lamp shade. 1,687,733; Oct. 16.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle lamp. 1,687,877; Oct. 16.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,687,878; Oct. 16.
Morey, George W., Chevy Chase, Md. Tribarium aluminate and preparing the same. 1,688,054; Oct. 16.
Morgenthaler, Anna R., executrix. (See Morgenthaler, Herbert J. W.)
Morgenthaler, Herbert J. W., deceased, Brooklyn, N. Y.; A. R. Morgenthaler, executrix. Inclosed bed for premature and feeble infants. 1,688,200; Oct. 16.
Mornaghini, Angelo J., Brooklyn, N. Y. Smoker's ash receptacle or similar article. Des. 76,625; Oct. 16.
Morris, Alfred A., Los Angeles, Calif. Clutch and brake assembly for power-driven machines. 1,687,778; Oct. 16.
Morse Chain Company. (See Perry, David B., assignor.)
Mosler Safe Company, The. (See Bates, Charles J., jr., assignor.)
Muir, Joseph, assignor to The Radium Emanation Corporation, New York, N. Y. Removable emanation seed. 1,688,245; Oct. 16.
Mullen, James J., and F. M. Stambaugh, St. Louis, Mo.; said Stambaugh assignor to said Mullen. Metal-bending machine. 1,687,988; Oct. 16.
Muller, Curt B. (See Arnt, H. P., and Arnold, assignors.)
Müller, Werner. (See Spengler, O., and Müller.)
Munters, Carl G. (See von Platen, B. C., and Munters.)
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricant-expelling apparatus. 1,687,779; Oct. 16.
Murphy Joseph H., Newark, N. J. Suspension clip. 1,687,581; Oct. 16.
Murray, Thomas E., Brooklyn, N. Y. Forming ways or ducts in plastic material. 1,687,879; Oct. 16.
Myers, Don D., Toledo, Ohio. Automobile bumper. 1,687,880; Oct. 16.
Myers, Harold L., Morristown, N. J. Display device. 1,687,881; Oct. 16.
Nachenius, H. A. J. de B., Haarlem, Netherlands. Driving gear for the bucket chains of dredgers. 1,687,845; Oct. 16.
Nakashian, Jacob S., Watertown, Mass. Straightening rugs. 1,688,088; Oct. 16.
National Aniline & Chemical Co. (See Geller, Leon W., assignor.)
National Carbon Company. (See Gillingham, Charles A., assignor.)
National Gauge & Equipment Company. (See Padesky, John R.)
National Regulator Company. (See Larson, John M., assignor.)
National Supply Company, The. (See Mahan, J. R., and Picard, assignors.)
Naugatuck Chemical Company, The. (See Smith, Omar H., assignor.)
Naunton, William J. S. (See Cronshaw, C. J. T., and Naunton.)
Neale, Fred, assignor to General Motors Corporation, Detroit, Mich. Porous metal plug for valve lubrication. 1,687,780; Oct. 16.
Neall, Newitt J., Brookline, and R. W. Chadbourn, Melrose, Mass., assignors to Oxford Paper Company, New York, N. Y. Electric steam boiler and operating the same. 1,688,201; Oct. 16.
Neall, Newitt J., Brookline, and R. W. Chadbourn, Melrose, Mass., assignors to Oxford Paper Company, New York, N. Y. Electrode for electric boilers. 1,688,202; Oct. 16.
Neebe, Lawrence L., Woodbury, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Fire-box foundation ring. 1,688,203; Oct. 16.
Nelson, Lloyd F., Seattle, Wash. Device used in pie baking. 1,687,846; Oct. 16.
Nemcovsky, Louis A., assignor to Sun Typewriter Company, New York, N. Y. Portable-typewriting-machine frame. Des. 76,626; Oct. 16.
Neptune Meter Company. (See Marden, William L., assignor.)
Newell, Laulie S., and C. E. Brown, Miami, Fla. Doll. Des. 76,631; Oct. 16.
Newhall, Henry B., Corporation. (See Pielster, Henry W., assignor.)
Newland, Barnet, New York, N. Y. Body plate. Des. 76,627; Oct. 16.
Newland, Barnet, New York, N. Y. Body plate. Des. 76,628; Oct. 16.
Newland, Barnet, New York, N. Y. Wall bracket. Des. 76,629; Oct. 16.
Newland, Barnet, New York, N. Y. Chandelier. Des. 76,630; Oct. 16.
New Way Motor Company. (See Carmichael, William F., assignor.)
New York Brick Handling Corporation. (See Fuller, Claud E., assignor.)
Nichols Copper Company. (See Fowler, Edward J., assignor.)
Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation generator and modulator. 1,687,882; Oct. 16.
Noble, Abraham, San Diego, Calif. Can opener. 1,687,582; Oct. 16.
Nolte, Henry J., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. 1,687,505; Oct. 16.
Nord, Swan E., Seattle, Wash. Self-draining oil can. 1,687,583; Oct. 16.
Normington, Edwin B., Sacramento, Calif. Line-tapper-operating device. 1,687,584; Oct. 16.
Norris Brothers, Incorporated. (See Norris, Daniel E., assignor.)
Norris, Daniel E., assignor to Norris Brothers, Incorporated, Robinson, Ill. Working-barrel-cleaning device. 1,687,781; Oct. 16.
Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Shuttle. 1,688,204; Oct. 16.
Norton, John M., assignor to Plymouth Clay Products Company, Fort Dodge, Iowa. Floor block for disposal tanks. 1,687,782; Oct. 16.
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Liquid-level gauge. 1,687,506; Oct. 16.
Nugent, Joseph, San Jose, Calif. Rubber heel. 1,687,684; Oct. 16.
Oberwegner, Alfred R., Toledo, Ohio. Caster lock. 1,687,631; Oct. 16.
O-Cedar Corp'n. (See Brown, Peter, assignor.)
Oestnaes, Victor L., Westfield, assignor to American Gas-accumulator Company, Elizabeth, N. J. Reflector signal head. 1,688,018; Oct. 16.
O'Hare, James L. (See Higgins, H., Fish, and O'Hare.)
Ohio Cultivator Company, The. (See Rollman, Bruce, assignor.)
Ohio Match Company, The. (See Lahr, Harry I., assignor.)
Oil Products Appliance Co. (See Joncha, Anton, assignor.)
Olinger, David W., Milton, Oreg. Pick-up drum. 1,687,685; Oct. 16.
Olsen, Anton J., Sollsted, Lolland, Denmark. Portable weeding device. 1,687,948; Oct. 16.
Olsen, Ole, Seattle, Wash. Nail set. 1,688,130; Oct. 16.
O'Neil, James A., Lynn, Mass., assignor to General Electric Company. Suppressing harmonics. 1,687,585; Oct. 16.
O'Neill, Henry W., Elmhurst, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. 1,687,883; Oct. 16.
Onondaga Steel Company. (See Briggs, Arthur J., assignor.)
Onsrud, Oscar, assignor to L. L. Valentine, Chicago, Ill. Cotton-harvesting machine. 1,688,312; Oct. 16.
Open Hearth Combustion Company. (See McKune, Frank B., assignor.)
Ornes, Jessie S., and L. V. Lavell, Minneapolis, Minn. Mantel clamp. Des. 76,632; Oct. 16.
Oro-Tone Company. (See Hunt, Leigh, assignor.)
Orton Crane & Shovel Co. (See Orton, Philo A., assignor.)
Orton, Philo A., Chicago, Ill., assignor to Orton Crane & Shovel Co., Huntington, Ind. Friction-clutch transmission. 1,688,129; Oct. 16.
O'Toole, Edward, Gary, W. Va. Heading machine. 1,687,949; Oct. 16.
Oughton, Frank, Youngstown, Ohio. Steering wheel for automobiles. 1,687,783; Oct. 16.
Owens, Frank R., Beaver Crossing, Nebr. Parachute. 1,687,884; Oct. 16.
Oxford Paper Company. (See Neall, N. J., and Chadbourn.)
Pacent Electric Company. (See Pacent, Louis G., assignor.)
Pacent, Louis G., Winfield, assignor to Pacent Electric Company, New York, N. Y. Adjusting device. 1,688,313; Oct. 16.
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Padesky, John R., La Crosse, Wis., assignor, by mesne assignments, to National Gauge & Equipment Company, Wilmington, Del. Instrument panel. 1,687,885; Oct. 16.
Paley, Lewis A., Grand Island, N. Y. Die-casting machine. 1,688,055; Oct. 16.
Palmer Brothers Company, The. (See Meicer, Ralph H., assignor.)
Palmer, Clarence E., Fayetteville, Ark. Perpetual calendar. 1,687,950; Oct. 16.
Pancotti, Roberto, Brooklyn, N. Y. Accordion. 1,688,151; Oct. 16.
Paraffine Companies. (See Meller, Reginald B., assignor.)
Paraffine Companies, The. (See Finley, Dozier, assignor.)
Parent, Louis E., Claremont, N. H., assignor to Claremont Waste Manufacturing Company. Rotary cutter. 1,688,296; Oct. 16.

Parent, Louis E., Claremont, N. H., assignor to Claremont Waste Manufacturing Company. Rotary cutter. 1,688,297; Oct. 16.
Parent, Louis E., Claremont, N. H., assignor to Claremont Waste Manufacturing Company. Rotary cutter. 1,688,298; Oct. 16.
Parker, Charles H., Codsall, England. Retort for the distillation of coal and similar carbonaceous substances. 1,687,989; Oct. 16.
Parker, Charles H., Codsall, England. Distillation of coal and similar carbonaceous substances. 1,687,990; Oct. 16.
Parker, Charles H., Codsall, England. Distillation of coal and similar carbonaceous substances. 1,687,991; Oct. 16.
Parker, Howard, assignor to Brown Company, Berlin, N. H. Fiber core. 1,687,586; Oct. 16.
Paschen, Paul, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Temperature-compensating device. 1,687,686; Oct. 16.
Paxton, Clifford M., Brooklyn, N. Y., assignor to Paxton Gyroscope Corporation. Lubricating system for gyroscopes and other apparatus. 1,687,632; Oct. 16.
Paxton Gyroscope Corporation. (See Paxton, Clifford M., assignor.)
Pearne, Frank D., and L. E. Gotsch, assignor, by mesne assignments, to Wire Transmitting Corporation, Chicago, Ill. Automatic clutch. 1,687,587; Oct. 16.
Pearson, Albert, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Drying corrodible materials. 1,687,588; Oct. 16.
Peck, Horace H., Chattanooga, Tenn. Sectional heating boiler. 1,687,784; Oct. 16.
Penberthy, Ernest, Redruth, Cornwall, assignor to The Climax Rock Drill & Engineering Works Limited, London, England. Percussive rock drill. 1,687,687; Oct. 16.
Pennsylvania Textile Mills, Inc. (See Biva, Lucien, assignor.)
Penrod, John, and R. D. Thompson, Okmulgee, Okla. Pumping equipment. 1,688,089; Oct. 16.
Pentecost, Arthur, Upper Montclair, N. J. Call register. 1,687,633; Oct. 16.
Perkins, Frank C., South Euclid, Ohio, assignor to General Electric Company. Vibration meter. 1,687,507; Oct. 16.
Perkins Machine and Gear Company. (See Croft, Hiram D., assignor.)
Perl, John, Los Angeles, Calif., assignor to M. M. Cory, San Diego, Calif. Neutralizing cellulose-bearing material for subsequent saccharification. 1,687,785; Oct. 16.
Perry, Charles L., Schenectady, N. Y., assignor to General Electric Company. Controller. 1,687,508; Oct. 16.
Perry, David B., assignor to Morse Chain Company, Ithaca, N. Y. Mechanical lubricator for chains. 1,687,688; Oct. 16.
Perry, Thomas L. (See English, F. S., and Perry.)
Person, Charles A. (See Ricker, J. B., Person, and Armstrong.)
Peters Machinery Company. (See Becker, H. K., and Jurgens, assignors.)
Peterson, Albert E., Chicago, Ill. Checkerwork and brick therefor. 1,687,786; Oct. 16.
Petree & Dorr Engineers, Inc. (See Hartmann, Ernest E., assignor.)
Petry, Jacob, Pittsburgh, Pa. Bottle. 1,687,689; Oct. 16.
Petry, Jacob, Pittsburgh, Pa. Dental crown. 1,687,690; Oct. 16.
Pettibone Mulliken Company. (See Powell, Edward W., assignor.)
Pfaff, Henry C., assignor to Traffic and Street Sign Company, Newark, N. J. Signal standard. Des. 76,633; Oct. 16.
Pfeiffer, Hermann E., Cincinnati, Ohio. Sausage-linking machine. 1,687,691; Oct. 16.
Philadelphia Last & Pattern Co. (See Lurcott, Charles E., assignor.)
Philipp, Richard, Eisenach, assignor to the firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Saxe-Weimar, Germany. Apparatus for the utilization and treatment of difficultly-manageable waste material. 1,687,886; Oct. 16.
Phillips, Ernest B., East Chicago, and J. G. Stafford, Hammond, Ind., assignors, by mesne assignments, to The Gray Processes Corporation, Newark, N. J. Refining of hydrocarbon oils. 1,687,992; Oct. 16.
Phillips, Henry D. (See Phillips, James M. and H. D.)
Phillips, James M. and H. D., assignors to Phillips Machine Company, Stanford, Ky. Molding apparatus. 1,688,205; Oct. 16.
Phillips Machine Company. (See Phillips, James M. and H. D., assignors.)
Picard, John B. (See Mahan, J. R., and Picard.)
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Cooking stove. 1,687,993; Oct. 16.
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Cookstove. 1,688,019; Oct. 16.
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
Pieper, Oscar H. and A. F., Rochester, N. Y. X-ray appliance. 1,687,509; Oct. 16.
Pierce, George L., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Cleat for sport shoes. 1,687,634; Oct. 16.
Pierce, Raymond T., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical metering system. 1,687,692; Oct. 16.
Pierson, Benjamin J., assignor to D. H. P. Manufacturing Company, Inc., Johnstown, N. Y. Filter. 1,688,152; Oct. 16.
Pilgrim, Frederick J., Detroit, Mich. Softening compound. 1,687,787; Oct. 16.
Pilkington Brothers Limited. (See Waldron, Frederic, assignor.)
Pilot Laboratory, Inc. (See Stoddard, W. B., and Kokatnur, assignors.)
Pinaud Incorporated. (See Riegel, George F., assignor.)
Pines Winterfront Company. (See Raleigh, James F., assignor.)
Pinkus, Abraham S., New York, N. Y. Screw driver. 1,687,788; Oct. 16.
Pipkin, Marvin, Cleveland Heights, Ohio, assignor to General Electric Company. Electric-lamp bulb. 1,687,510; Oct. 16.
Pipkin, Wilbur A. (See Van Horn, I. H., and Pipkin.)
Piquerez, Emile, Paris, France, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,687,789; Oct. 16.
Platt, Doris I., Rapid City, S. Dak. Sash fastener. 1,688,246; Oct. 16.
Pleister, Henry W., Westfield, assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J. Drill blade. 1,688,153; Oct. 16.
Pletcher, Eugene M., New York, N. Y. Screw friction lock for cans. 1,687,887; Oct. 16.
Plexico, Robert S. (See Randol, G. T., and Plexico.)
Plymouth Clay Products Company. (See Norton, John M., assignor.)
Porritt, Benjamin D. (See Gallie, G., and Porritt.)
Portland Realty and Trust Co. (See Locke, William S., assignor.)
Post, James O., Morristown, N. J. Liquid-fuel burner. 1,687,888; Oct. 16.
Pottstown Machine Company. (See Saylor, John R., assignor.)
Powell, A. L., Power Company, The. (See Powell, Alvah L., assignor.)
Powell, Alvah L., Roundup, Mont., assignor, by mesne assignments, to The A. L. Powell Power Company, Incorporated. Rotary internal-combustion engine. 1,687,511; Oct. 16.
Powell, Edward W., Chicago, Ill., assignor to Pettibone Mulliken Company. Switch device. 1,687,994; Oct. 16.
Powers, James T., Chicago, Heights, Ill. Display appliance. 1,687,790; Oct. 16.
Pratt, Lucius S., Roanoke, Va. Car-coupler-operating device. 1,688,154; Oct. 16.
Pratt, Lucius S., Roanoke, Va., assignor of one-half to C. F. Strunck, Hendersonville, N. C. Bucking toy horse. 1,687,693; Oct. 16.
Precision Gauge & Tool Company. (See Flinn, William H., assignor.)
Prescott, William E., London, England, assignor to Baker-Perkins Company, Inc., White Plains, N. Y. Apparatus for measuring and feeding plastic substances. 1,687,694; Oct. 16.
Prestinari, Eugen, Irvington, N. J., assignor to Gemex Company, Newark, N. J. Extendible bracelet link. 1,688,090; Oct. 16.
Price, Harry M., Waukegan, Ill. Can-washing machine. 1,687,791; Oct. 16.
Prosperity Company, The. (See Braun, Philip N., assignor.)
Prosperity Company, The. (See Davis, Ernest, assignor.)
Prosperity Company, The. (See Ledbetter, James C., assignor.)
Prosperity Company, The. (See Yanchenko, Basil J., assignor.)
Pulverman, Philip E., New York N. Y. Securing indicator facings to indicator bodies. 1,687,889; Oct. 16.
Pülz, Willy, Berlin-Niederschonhausen, Germany. Weighing machine. 1,687,852; Oct. 16.
Purvis, Matthew, and T. Lee, Plymouth, England. Carburetor. 1,688,285; Oct. 16.
Putnam, Carl E. and F. A., Keene, N. H., assignors to Markem Machine Company, Boston, Mass. Type chase. 1,687,951; Oct. 16.
Putnam, Fred A. (See Putnam, Carl E. and F. A.)
Putnam, Fred A., Keene, N. H., assignor to Markem Machine Company, Boston, Mass. Marking machine. 1,687,635; Oct. 16.
Pye, Harold C., Oak Park, assignor to Automatic Electric Inc., Chicago, Ill. Antiside-tone substation circuits. 1,687,695; Oct. 16.
Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
Q & C Company. (See Helmes, Maximilian J., assignor.)
Radio Corporation of America. (See Wright, George M., assignor.)
Radium Emanation Corporation, The. (See Muir, Joseph, assignor.)
Raleigh, James F., assignor to Pines Winterfront Company, Chicago, Ill. Theft-preventing device. 1,687,734; Oct. 16.
Ramage, Alexander S., Detroit, Mich., assignor, by mesne assignments, to Gyro Process Corporation. Production of higher-boiling-point hydrocarbons from low-boiling hydrocarbons and hydrocarbon gases. 1,687,890; Oct. 16.
Ramapo Ajax Corporation. (See Bender, William, assignor.)

Randall, Howard D., Cincinnati, Ohio. Weather strip. 1,687,589; Oct. 16.
Randol, Glenn T., Muncie, Ind. Gear-shifting mechanism. 1,687,590; Oct. 16.
Randol, Glenn T., Marmaduke, Ark., and R. S. Plexico, Muncie, Ind.; said Plexico assignor to said Randol. Gear-shifting mechanism. 1,687,591; Oct. 16.
Rave, Elmer M., Brooklyn, N. Y., assignor of one-third to B. B. Hale, East Orange, N. J., and one-third to D. H. Reid, Brooklyn, N. Y. Radiocommunication. 1,687,792; Oct. 16.
Ray, James L., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade fastening. 1,687,891; Oct. 16.
Read, Robert E., White Plains, N. Y., assignor to International Paper Company. Paper-making machine. 1,687,847; Oct. 16.
Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. 1,688,056; Oct. 16.
Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread-measuring mechanism for sewing machines. 1,688,057; Oct. 16.
Reed, James H., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cop-winding machine. 1,688,058; Oct. 16.
Reed, Percival K., Llanerch, assignor to Atlas Conveyor Company, Philadelphia, Pa. Sheave support. 1,687,892; Oct. 16.
Reed Propeller Co., The. (See Reed, Sylvanus A., assignor.)
Reed, Sylvanus A., assignor to The Reed Propeller Co. Inc., New York, N. Y. Aeronautical propeller. 1,687,636; Oct. 16.
Reichold, Ludwig, Winsted, assignor to The Fitzgerald Mfg. Company, Torrington, Conn. Electric heating vessel. 1,688,286; Oct. 16.
Reid, David H., et al. (See Rave, Elmer M., assignor.)
Reid, John D. (See Winstead, M. A., Reid, and Moody.)
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Rotor. 1,687,512; Oct. 16.
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Rotor. 1,687,513; Oct. 16.
Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Liquid-fuel-feed system. 1,687,793; Oct. 16.
Remington Manufacturing Company. (See Remington, Joseph P., assignor.)
Remington Typewriter Company. (See Jones, Robert M., assignor.)
Research Association of British Rubber and Tyre Manufacturers. (See Gallie, G., and Porritt, assignors.)
Reynders, Arthur E., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Electrical centering device. 1,687,637; Oct. 16.
Reynolds Spring Company. (See Ile, William, assignor.)
Rhodes, Ursa L. (See Kahlen, Johannes W., assignor.)
Rice, Joseph, assignor to Elevator Company of America, Chicago, Ill. Movable floor for elevator cars. 1,687,794; Oct. 16.
Richards, Willard F., Depew, N. Y. Side frame. 1,687,735; Oct. 16.
Richter, David A. G., Maschinenfabrik, Tüllweberei. (See Kaufmann, Christian F., assignor.)
Ricker, Jerome B., C. A. Person, Enterprise, and E. P. and H. W. Armstrong, Portland, Oreg. Saw-brazing clamp. 1,687,696; Oct. 16.
Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for incorporating stiffeners in boots and shoes. 1,687,514; Oct. 16.
Riegel, George F., assignor to Pinaud Incorporated, New York, N. Y. Carton. Des. 76,634; Oct. 16.
Ritter, George T., Burley, Idaho. Spoon holder. 1,687,795; Oct. 16.
Ritz Woller, Oliver C., Chicago, Ill. Ornament for automobile radiator cap or similar article. Des. 76,635; Oct. 16.
Roberson, Frank, Gary, Ind., assignor to General Electric Company. Circuit interrupter. 1,687,515; Oct. 16.
Robinson, Edward A., assignor of one-half to himself and one-half to E. E. Workman, Montreal, Quebec, Canada. Automatic train-pipe connector. 1,687,893; Oct. 16.
Robinson, George and J., London, England. Tennis and like racket. 1,687,848; Oct. 16.
Robinson, James, et al. (See Cass, Albert, assignor.)
Robinson, James. (See Robinson, George and J.))
Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,688,287; Oct. 16.
Rogers, Louis G., Croydon, England. Pudding cloth and the like. 1,688,288; Oct. 16.
Rohrer, Quay. (See Falbe, E. E., and Rohrer.)
Rollman, Bruce, assignor to The Ohio Cultivator Company, Bellevue, Ohio. Press. 1,687,516; Oct. 16.
Romine, Robert T. (See Systrom, E. W., and Warren, assignors.)
Root, William E., Palmerston, Ontario, Canada. Hockey stick end buffer. 1,687,736; Oct. 16.
Rosholt, Ingelbert E., Minneapolis, Minn. Ensilage harvester with corn-shelling device. 1,688,206; Oct. 16.
Rothstein, Anna, Chicago, Ill. Shoulder strap. 1,687,592; Oct. 16.
Rudeen, Ansel E., Axtel, Kans. Animal trap. 1,687,737; Oct. 16.
Ruggles, Horace F., Brooklyn, N. Y. Hoisting and weighing means. 1,687,894; Oct. 16.
Runley, William E., Los Angeles, assignor to Western Pipe and Steel Company of California, San Francisco, Calif. Welded pipe. 1,687,895; Oct. 16.
Rupp, Henry J., Quincy, Ill., assignor to Gem City Stove Manufacturing Co. Downdraft heater. 1,687,638; Oct. 16.
Russell, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible pipe joint. 1,687,796; Oct. 16.
Ruth Glass Company. (See Koenig, Robert H., assignor.)
Ryan, Francis M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio transmitting system. 1,687,896; Oct. 16.
Ryan, Walter D'A. Schenectady, N. Y. Lens for vehicle lamps. Des. 76,636; Oct. 16.
Ryberg, Charles O., Brockton, Mass. Vehicle lifting jack. 1,688,155; Oct. 16.
Sachse, Herman P., assignor to Central Scientific Company, Chicago, Ill. Molding device. 1,687,797; Oct. 16.
Sack, Werner, Dusseldorf-Rath, Germany. Photo copying apparatus. 1,688,059; Oct. 16.
Safran, Joseph, et al. (See Hamilonoff, Simon A., assignor.)
St. Louis Pump & Equipment Company. (See Hinds, Sherwood, assignor.)
Saltzman, Joseph, and F. H. Lange, Chicago, Ill., said Lange assignor to said Saltzman. Tape sponging and shrinking machine. 1,687,639; Oct. 16.
Sanitary Products Corporation of America. (See Mallory, George P., assignor.)
Santos, John R. L., Baltimore, Md., assignor, by mesne assignments, to Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic tool. 1,688,020; Oct. 16.
Santos, John R. L., Baltimore, Md., assignor, by mesne assignments, to Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic tool. 1,688,021; Oct. 16.
Sargent, George H., Toronto, Ontario, Canada, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,688,022; Oct. 16.
Sasgen, Michael J., assignor to Grand Specialties Company, Chicago, Ill. Doorstop. 1,687,517; Oct. 16.
Sass, Fred, Detroit, Mich., assignor to Ro-Zar Engraving Studios, Inc. Preparing color plates. 1,687,593; Oct. 16.
Saylor, Elizabeth E., executrix. (See Saylor, John R.)
Saylor, John R., deceased; E. E. Saylor, executrix, assignor to Pottstown Machine Company, Pottstown, Pa. Tap. 1,688,209; Oct. 16.
Scarlett, George B., assignor to Glacifer Company, Kennett Square, Pa. Refrigerating unit. 1,688,023; Oct. 16.
Schafer, Carl. (See Burnham, L. F., Keim, and Schafer.)
Scheidacker, Hans T., assignor to Hudson Brass Works, Inc., Brooklyn, N. Y. Floor lamp. Des. 76,639; Oct. 16.
Schenke, Max E., Jersey City, N. J. Vanity case. Des. 76,637; Oct. 16.
Schickerling, Conrad, assignor of one-half to L. E. Schickerling and H. Schickerling, East Orange, N. J. Radiotube. 1,687,897; Oct. 16.
Schickerling, Conrad, assignor to H. Schickerling, East Orange, N. J. Rectifier tube. 1,687,898; Oct. 16.
Schickerling, Hortense, et al. (See Schickerling, Conrad, assignor.)
Schickerling, Lillie E., et al. (See Schickerling, Conrad, assignor.)
Schleicher, Frank J., St. Louis, Mo. Box. Des. 76,639; Oct. 16.
Schmidt, Theodor, Berlin, Germany. Playing device for guitars and similar instruments. 1,687,849; Oct. 16.
Schneble, Joseph C., Oakwood, Ohio. Tape-moistening device. 1,687,594; Oct. 16
Scholer, August, Pittsburgh, Pa. Toy vehicle. 1,688,024; Oct. 16.
Schon, Lester. (See Shoenberg, M. H., and Schon.)
Schonenberger, Aloys, Springfield Township, Summit County, assignor to himself and F. E. Shannon, Akron, Ohio. Washer sorting and stringing machine. Re. 17,104; Oct. 16.
Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Table for radio receiving sets or the like. Des. 76,640; Oct. 16.
Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Table for radio receiving setsor the like. Des. 76,641; Oct. 16.
Schwartz, Kevie W., assignor, by mesne assignments, to United Chromium, Incorporated, New York, N. Y. Manufacture of articles of cellulose esters and of their compositions. 1,688,060; Oct. 16.
Schwieren, Anton, assignor of one-half to Jesse L. Frazier, Salisbury, Mo. Pulley covering. 1,687,798; Oct. 16.
Scoppettone, Harry A., Seattle, Wash. Sliding window. 1,687,899; Oct. 16.
Scott, Philip L., Chicago, Ill., assignor to Super-Diesel Tractor Corporation, La Porte, Ind. Fuel pump and oil-injection system for internal-combustion engines. 1,687,518; Oct. 16.
Scott, Philip L., Chicago, Ill., assignor to Super-Diesel Tractor Corporation, La Porte, Ind. By-pass-valve construction. 1,687,519; Oct. 16.
Seabury, Ralph L., Toledo, Ohio. Press for molding granular powders. 1,687,995; Oct. 16.

Seitzinger, William M., assignor, by mesne assignments, to Marshall Field & Company, Chicago, Ill. Slitting device for bag-making machines. 1,688,091; Oct. 16.
Semler, Harry. (See Cremer, Leonard A., assignor.)
Shaffer, Ernest J., Tulsa, Okla. Pick-up iron. 1,687,520; Oct. 16.
Shannon, Floyd E. (See Schonenberger, Aloys, assignor.)
Shear, Harmon C. (See Fitzgerald, Guy W., assignor.)
Shelby Metal Products Company, The. (See Broomhall, Hatley, assignor.)
Sherbondy, William E., Cleveland, Ohio. Combined carpet sweeper and vacuum cleaner. 1,688,156; Oct. 16.
Sheridan Iron Works, et al. (See Bredenberg, Alfred, assignor.)
Sheridan, T. W. & C. B., Company, et al. (See Bredenberg, Alfred, assignor.)
Sherman, John Q., Dayton, Ohio. Manifolding machine. 1,688,157; Oct. 16.
Shillian, Charles M., Spokane, Wash. Nest structure. 1,687,901; Oct. 16.
Shimer, Edward B. (See Shimer, Porter W. and E. B.)
Shimer, Porter W. and Ed B., Easton, Pa. Casting ferrous metals. 1,687,799; Oct. 16.
Shinn, Forrest S., Galesburg, Ill. Seasoning wood. 1,687,900; Oct. 16.
Shodron, John G., assignor to James Manufacturing Company, Fort Atkinson, Wis. Frame for buildings. 1,687,850; Oct. 16.
Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Circuit alarm. 1,687,902; Oct. 16.
Shore, William E., New York, N. Y. Constructive conversion of heavy to light hydrocarbons. 1,687,595; Oct. 16.
Shrosbree, George, Portland, Oreg. Lamp stand. Des. 76,642; Oct. 16.
Shull, Robert R. (See Wilson, W. W., Deakins, and Shull.)
Simplex Radio Devices, Inc. (See Hall, Frederick P., assignor.)
Simplex Sampling Association, Inc. (See Stenz, Bernard F., assignor.)
Simpson, Eddie O., Tarrant, assignor of one-half to F. I. Tarrant, Birmingham, Ala. Interlocking stovepipe blank. 1,687,738; Oct. 16.
Siptrott, Paul, New York, N. Y. Alarm-clock frame. Des. 76,643; Oct. 16.
Siptrott, Paul, New York, N. Y. Alarm-clock frame. Des. 76,644; Oct. 16.
Sirl, Frank J., Lakewood, Ohio. Spring-driven fan. 1,687,996; Oct. 16.
Skinner Automotive Device Co. (See Fisher, Robert B., assignor.)
Slawski, Stephen F., Culver City, Calif. Folding ironing board. 1,688,289; Oct. 16.
Slusher, Walter A., Kansas City, Mo. Roller skate. 1,687,739; Oct. 16.
Smith, Andrew B., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-feeding device. 1,687,524; Oct. 16.
Smith, Charles A., and W. G. Bowers, Barberton, Ohio. Brake lock. 1,688,290; Oct. 16.
Smith, Charles B., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Bumper for motor vehicles. 1,688,026; Oct. 16.
Smith, Chetwood, Worcester, Mass. Combination relief valve. 1,688,092; Oct. 16.
Smith, Chetwood, Worcester, Mass. Diaphragm-type relief valve. 1,688,093; Oct. 16.
Smith, E. Payson. (See Wright, William, assignor.)
Smith, Goldwin, Tampa, Fla. Baseball game. 1,687,800; Oct. 16.
Smith, Herman B., Plainfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Waste-heat boiler system. 1,687,740; Oct. 16.
Smith, Herman R., Brooklyn, and P. D. Case, Pelham Manor, N. Y., assignors to Charles R. Gow Company, Boston, Mass. Hoisting apparatus. 1,688,061; Oct. 16.
Smith, Omar H., New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Production of styrol frour chlor ethyl benzol. 1,687,903; Oct. 16.
Smith, Richardson Co. (See Durand, Moise H.)
Smith, Wallace W., V. B. Trevellyan, Chicago, Ill., and N. J. Jewett, Jewell Station, Va. Stair, ladder, and the like. 1,688,210; Oct. 16.
Smith, Willoughby S., Newton Poppleford, H. J. Garnett, Sevenoaks, and J. A. Holden, Gidea Park, England. Alloy and its application to the manufacture of electrical conductors. 1,688,247; Oct. 16.
Smithe, F. L., Machine Co. (See Novick, Abraham, assignor.)
Snyder, Daniel O., Muncy, Pa. Metal railway tie. 1,688,248; Oct. 16.
Société Anonyme des Ateliers de Sécheron. (See Werz, Jacob, assignor.)
Société Anonyme Pleyel. (See Lyon, Gustave, assignor.)
Socony Burner Corporation. (See Metcalfe, Robert F., assignor.)
Socony Burner Corporation. (See Tapp, H. F., and Dix, assignors.)
Solarz, George, Gallitzin, Pa. Bread mixer. 1,688,211; Oct. 16.
Sonora Phonograph Company. (See Wolff, Joseph, assignor.)
Soullière, Edouard, Saion, France. Theft-preventing rocking lock for bicycles. 1,687,697; Oct. 16.
Spalding, A. G., & Bros. (See Pierce, George L., assignor.)
Speidel, August, Omaha, Nebr. Self-oiling swing hook. 1,687,698; Oct. 16.
Spengler, Oskar, Dessau in Anhalt, and W. Müller, Leipzig, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of aromatic amino sulphocyano derivatives. 1,687,596; Oct. 16.
Sperry Gyroscope Company. (See Corliss, Louis F., assignor.)
Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
Spowers, William H., Essex Fells, N. J. Textile fabric. Des. 76,645; Oct. 16.
Springer, Daniel C., Donora, Pa. Air and foul-gas ejector for gas systems. 1,687,597; Oct. 16.
Staege, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,687,640; Oct. 16.
Stafford, Delbert M. (See Fisher, Albert H., assignor.)
Stafford, James G. (See Phillips, E. B., and Stafford.)
Stallworth, Elbert, Americus, Ga. Electric heater. 1,687,521; Oct. 16.
Stambaugh, Francis M. (See Mullen, J. J., and Stambaugh.)
Standard Mirror Company. (See La Hodny, William, assignor.)
Standard Oil Company of California. (See Bessonett, Leland S., assignor.)
Standard Radio Corporation. (See Clarke, Ralph A., assignor.)
Stander, Jacob, Brooklyn, N. Y. Making composite panels for metal furniture. 1,687,952; Oct. 16.
Staples, Oscar C., Tulsa, Okla. Combination clamp. 1,687,851; Oct. 16.
Starks, Obie W., Clearfield, Pa. Handle mounting for brushes. 1,687,953; Oct. 16.
Staude, Edwin G., Minneapolis, Minn. Attachment for paper-slotting machines. 1,687,522; Oct. 16.
Staude, Edwin G., Minneapolis, Minn. Fluid-pressure pump for power-propelled vehicle controlling means. 1,687,523; Oct. 16.
Steam Pressing Iron Company. (See Hoffman, Louis, assignors.)
Steedman, Edwin H., St. Louis, Mo. Discharge-valve structure for compressors. 1,688,027; Oct. 16.
Steedman, Edwin H., St. Louis, assignor to Curtis Manufacturing Company, Wellston, Mo. Cooling apparatus. 1,688,158; Oct. 16.
Steele, Charles W., assignor to The Miller Rubber Company, Akron, Ohio. Rotary bias cutter. 1,687,598; Oct. 16.
Stegmann, Wilhelm. (See Darmstadt, P., Stegmann, and Weil.)
Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,688,160; Oct. 16.
Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,688,161; Oct. 16.
Stehlik, Rudolph F., assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,688,162; Oct. 16.
Stein Fur Dyeing Co. (See Stein, H., Austin, and Liebowitz, assignors.)
Stein, Hyman, and W. E. Austin, New York, and I. Liebowitz, Brooklyn, assignors to Stein Fur Dyeing Co., Inc., New York, N. Y. Fabricating felts and felt materials. 1,687,801; Oct. 16.
Stein, Hyman, and W. E. Austin, New York, and I. Liebowitz, Brooklyn, assignors to Stein Fur Dyeing Co., Inc., New York, N. Y. Felt and felt material and articles, such as hats and hat bodies, made of the same. 1,687,802; Oct. 16.
Stember, Bernard, New York, N. Y. Bag fastener. Des. 76,646; Oct. 16.
Stenz, Bernard F., assignor to Simplex Sampling Association, Inc., New York, N. Y. Displaying samples. 1,688,249; Oct. 16.
Stevens, Frederick A., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,687,954; Oct. 16.
Stevenson, Ralph C., Brooklyn, assignor, by mesne assignments, to Gilman Fanfold Corporation, Limited, Niagara Falls, N. Y. Making continuous manifold forms. 1,687,905; Oct. 16.
Stewart-Warner Speedometer Corporation. (See Smith, Charles B., assignor.)
Stockhausen, Charles L. (See Ford, Horace, assignor.)
Stoddard, William B., Stamford, Conn., and V. R. Kokatnur, New York, N. Y., assignors to Pilot Laboratory, Inc., Arlington, N. J. Process of and composition for bleaching. 1,684,803; Oct. 16.
Stoddard, William B., Stamford, Conn., and V. R. Kokatnur, New York, N. Y., assignors to Pilot Laboratory, Inc., Arlington, N. J. Process of and composition for bleaching. 1,687,804; Oct. 16.
Stoddard, William B., Stamford, Conn., and V. R. Kokatnur, assignors to Pilot Laboratory, Inc., Arlington, N. J. Bleaching foodstuffs. 1,687,805; Oct. 16.
Straitline Radio Corporation. (See Herman, Henry F., assignor.)
Strong, Arthur P., Mishawaka, Ind., assignor to Dodge Manufacturing Corporation. Bearing for shaft supports. 1,687,806; Oct. 16.

Strout, Lester B., assignor to Woodward & Cochey Manufacturing Company, Chicago, Ill. Finishing welt. 1,688,094; Oct. 16.
Strunck, Carl F. (See Pratt, Lucius S., assignor.)
Stuart, Luttrell H., Chicago, Ill. Valve. 1,688,299; Oct. 16.
Sturdevant, Earl G., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Flameproof electric insulation and producing the same. 1,687,525; Oct. 16.
Stutson, Willis, Winnetka, Ill. Combination door retainer and bumper. 1,688,028; Oct. 16.
Stutson, Willis, Winnetka, Ill. Door retainer. 1,688,095; Oct. 16.
Sun Typewriter Company. (See Nemcovsky, Louis A., assignor.)
Super-Diesel Tractor Corporation. (See Scott, Philip L., assignor.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Swartwout Company, The. (See Barrett, Joseph M., assignor.)
Swasey, George T., Raymond, Wash. Fountain pen. 1,687,807; Oct. 16.
Swearengin, Rubin M., Birmingham, Ala. Carburetor. 1,688,029; Oct. 16.
Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Toilet-paper fixture. 1,687,741; Oct. 16.
Switzeny, Paul, Vienna, Austria. Machine for fixing clasps. 1,687,906; Oct. 16.
Systrom, Ernest W., and J. F. Warren, Detroit, assignors to R. T. Romine, Mount Clemens, Mich. Stacking brace. 1,687,907; Oct. 16.
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic compass. 1,687,955; Oct. 16.
Tapp, Harry F., Brooklyn, and H. W. Dix, assignors to Socony Burner Corporation, New York, N. Y. Oil-burner safety device. 1,688,163; Oct. 16.
Tarrant, Felix I. (See Simpson, Eddie O., assignor.)
Tarrant, Fred K., Yuma, Colo. Internal-combustion engine. 1,688,164; Oct. 16.
Tartrais, Eugène H., Montmorency, France. Cylinder head for internal-combustion engines. 1,687,526; Oct. 16.
Tehel, William, Cedar Rapids, Iowa. Handle for cans. 1,688,165; Oct. 16.
Tench, Frank. (See Mercer, R. and Tench.)
Terranova, Giuseppe E., New Haven, Conn. Dental amalgam mixer. 1,688,062; Oct. 16.
Tesk, John A., Chicago, Ill. Bracket. 1,688,096; Oct. 16.
Thatcher, Willis L., Sacramento, Calif. Automobile bed. 1,687,742; Oct. 16.
Theander, Enoch, Brooklyn, N. Y. Temperature controller. 1,688,291; Oct. 16.
Thomas, Idris, Whittier, and E. I. Tibbet, Huntington Park, Calif. Fishing tool. 1,687,808; Oct. 16.
Thompson, Clarance W., assignor to Thompson Spring Corporation, Wilmington, Del. Shock absorber. 1,687,527; Oct. 16.
Thompson, Harry P., Philadelphia, Pa. Protecting guard for tires. 1,688,250; Oct. 16.
Thompson, John W., Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Mechanical toy. 1,688,097; Oct. 16.
Thompson, Robert D. (See Penrod, J., and Thompson.)
Thompson Spring Corporation. (See Thompson, Clarance W., assignor.)
Thornton, Ed T. (See Bruce, A. R., and Thornton.)
Tibbet, Ernest I. (See Thomas, I. and Tibbet.)
Tibbot, Guy B., Santa Cruz, and F. R. Cook, San Jose, Calif. Piston. 1,687,908; Oct. 16.
Tilden, Galen, Ames, Iowa. Calendar structure. 1,687,743; Oct. 16.
Titus, John E. (See Denz, E. A., and Titus.)
Tobin, Kenneth J., A. Wasberg, and G. Madland, assignors to Camel Company, Chicago, Ill. House car. 1,687,699; Oct. 16.
Tobin, Kenneth J., and W. W. Darrow, assignors to Camel Company, Chicago, Ill. Side-door construction. 1,687,997; Oct. 16.
Tracy, Earl G. S. (See Dahl, Conrad, assignor.)
Traffic and Street Sign Company. (See Pfaff, Henry C., assignor.)
Trainor, Frank, Seattle, Wash. Spar splice. 1,688,063; Oct. 16.
Trakalo, Andrew, The Pas, Manitoba, Canada. Horseshoe. 1,688,251; Oct. 16.
Trask, Glenn W., Green Bay, Wis. Milk-bottle indicator and coin holder. 1,687,956; Oct. 16.
Trevellyan, Vernon B. (See Smith, W. W., Trevellyan, and Jewett.)
Tripp, Leon L., Albany, N. Y. Boat. Des. 76,647; Oct. 16.
Triumph Manufacturing Company. (See Glosh, Frederick P., assignor.)
Trouvalis, John C., Portland, Me. Slicing machine. 1,687,809; Oct. 16.
Turbis, Tony, New Kensington, Pa. Joint for coal-mining drills. 1,687,909; Oct. 16.
Turner, George A., assignor to H. & M. Patents Limited, Leeds, Eng'and. Means or apparatus for supplying liquid disinfectants to the water contained in tanks used for water-closets and other like flushing purposes. 1,688,098; Oct. 16.
Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Plate mill and process of rolling hot metal. 1,688,252; Oct. 16.
Underwood Elliott Fisher Company. (See Sargent, George H., assignor.)
Underwood Elliott Fisher Company. (See Waldheim, John, assignor.)
Union Metal Products Company. (See Bonsall, Charles D., assignor.)
Union Metal Products Company. (See Gilpin, Garth G., assignor.)
Union Switch & Signal Company, The. (See Baughman, George W., assignor.)
Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
United Chromium, Incorporated. (See Schwartz, Kevie W., assignor.)
United Piece Dye Works. (See Jack, Carl, assignor.)
United Shoe Machinery Corporation. (See Coombes, Warren E., assignor.)
United Shoe Machinery Corporation. (See Cooper, Basil P., assignor.)
United Shoe Machinery Corporation. (See Hunt, Chester, assignor.)
United Shoe Machinery Corporation. (See Jones, Richard M., assignor.)
United Shoe Machinery Corporation. (See MacDonald, Lester S., assignor.)
United Shoe Machinery Corporation. (See Reed, James H., assignor.)
United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)
U. S. Manufacturing Corporation. (See Le Pere, John G., assignor.)
United States Envelope Company. (See Swift, Willard E., assignor.)
Universal Winding Company. (See Anderson, Johan A., assignor.)
Upson, Charles A., assignor of one-half to W. H. Upson, Lockport, N. Y. Fiber board and making same. 1,687,599; Oct. 16.
Upson, Maxwell M., Englewood, N. J. Concrete pile. 1,688,064; Oct. 16.
Upson, W. Harrison. (See Upson, Charles A., assignor.)
Urschler, Frank, sr. (See Gelman, M., and Urschler.)
Valabrègue, René-Max, assignor to Le Rasoir Apollo, Paris, France. Safety razor. 1,687,910; Oct. 16.
Valentine, L. L. (See Onsrud, Oscar, assignor.)
Valentine, Percy W., Cambridge, Mass. Shoe and method of shoemaking. 1,687,528; Oct. 16.
Valentine, Percy W., Cambridge, Mass. Stitchdown shoe and method of making. 1,687,529; Oct. 16.
Van Dervort, Adrian O., Troy, N. Y. Method and apparatus for resurfacing worn or pitted surfaces. 1,688,212; Oct. 16.
Van Horn, Irving H., and W. A. Pipkin, East Cleveland, Ohio, assignors to General Electric Company. Automatic cut-out for electric incandescent lamps. 1,687,530; Oct. 16.
Van Vranken, Jasper L., Winona, Minn. Coin-carrier print protector. 1,687,810; Oct. 16.
Vapor Car Heating Company. (See Russell, Edward A., assignor.)
Verse, Fritz E., assignor to the firm: Westfälische Metallwarenfabrik G. m. b. H., Iserlohn, Germany. Knob and knoblike device. 1,687,531; Oct. 16.
Vickers Limited. (See Dawson, A. T., and Buckham, assignor.)
Vickers Limited. (See Duncan, Thomas S., assignor.)
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,687,911; Oct. 16.
Virgile, Gabriel J., Brooklyn, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Des. 76,648; Oct. 16.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 76,612; Oct. 16.
Von Kandó, Kalman, Budapest, Hungary, assignor to Westinghouse Electric & Manufacturing Company. Plant working with induction motors fed from synchronous phase converter. 1,687,700; Oct. 16.
Von Platen, Baltzar C. and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,687,957; Oct. 16.
Von Wilfing, Johann A. (See Busch, Albert, assignor.)
Wagenbach, Anton, Elberfeld, Germany. Device for bending iron rods. 1,688,099; Oct. 16.
Wagoner, Alonzo W., Hammonville, Ky. Folding crate. 1,688,253; Oct. 16.
Walwat, Frank, Westfield, Mass. Penknife. 1,687,958; Oct. 16.
Walden, Lester M., Chicago, Ill. D'rigible light. 1,688,213; Oct. 16.
Walden, Lester M., Chicago, Ill. Dirigible light for motor vehicles and the like. 1,688,214; Oct. 16.
Walder, John, Union City, assignor to Monroe Embroidery Works, West New York, N. J. Embroidered fabric. Des. 76,650; Oct. 16.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,688,030; Oct. 16.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliot Fisher Company, New York, N. Y. Typewriting machine. 1,688,166; Oct. 16.

Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, Liverpool, England. Apparatus for polishing plates of glass, marble, or other material. 1,687,959; Oct. 16.
Walker, Joseph, Co. (See Davis, Oliver L., assignor.)
Waller, Charles W., Fort Klamath, Oreg. Price gauge. 1,688,254; Oct. 16.
Waltke, Henry G., Jersey City, N. J. Door-framing device. 1,687,532; Oct. 16.
Warner, Noah L., Okron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., Tube-splicing method and apparatus. 1,687,811; Oct. 16.
Warren, Jay F. (See Systrom, E. W., and Warren.)
Wasberg, Axel. (See Tobin, K. J., Wasberg, and Madland.)
Wasch, Louis, Mahanoy City, Pa. Display device for screens. 1,688,255; Oct. 16.
Weaver, Allan, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. System of modulating carrier currents. 1,688,292; Oct. 16.
Webb, Fred M., Fresno, Calif. Reciprocating engine. 1,687,744; Oct. 16.
Weber, Christian, Stockton, Calif. Portable chair carrier. 1,687,812; Oct. 16.
Wehrle Company, The. (See Pickup, George E., assignor.)
Weier, Jacob J., Chicago, Ill. Mud grip. 1,687,701; Oct. 16.
Weil, Valentin. (See Darmstadt, P., Stegmann, and Weil.)
Weinand, Klaus, Cologne-Flittard, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Dyestuffs of the anthraquinone series. 1,688,256; Oct. 16.
Weir, David A., receiver. (See Lucey, Patrick J., assignor.)
Weissbrod, Willis H., Greenfield, Mass. Key case. 1,688,215; Oct. 16.
Welcome, Harold A., Lowell, Mass., assignor to American Mason Safety Tread Company. Stair nosing. 1,687,600; Oct. 16.
Wellman, Lester R., Chicago, Ill. Plate for lighting fixtures. Des. 76,649; Oct. 16.
Wellman-Seaver-Morgan Company, The. (See Case, Arthur F., assignor.)
Welsh, James W., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Making ophthalmic-mountings. 1,687,960; Oct. 16.
Welty, George D., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Making hollow articles. 1,688,300; Oct. 16.
Wendig, Edward F., Richboro, Pa. Machine for finishing floors. 1,687,998; Oct. 16.
Wenger, David M., Leola, Pa. Rotative and locking unit supporting clothes wringer and incasing gear mechanism. 1,687,853; Oct. 16.
Wening, Frederick. (See Jaffe, J. L., and Wening.)
Wenzel, Max, Muldenstein, near Bitterfeld, Germany. Apparatus for withdrawing air from suction boxes. 1,688,216; Oct. 16.
Werner, Earl W., Muskegon Heights, assignor of one-half to G. D. Maze, Muskengon, Mich. Ice-cream scoop. 1,687,813; Oct. 16.
Werz, Jacob, assignor to Société Anonyme des Ateliers de Sécheron, Geneva, Switzerland. Power transmission. 1,688,167; Oct. 16.
West, John B., Syracuse, N. Y. Signal-element construction. 1,687,961; Oct. 16.
Westbrook, Robert G., and S. A. Brown, Birmingham, Ala. Outlet lock for gasoline tanks. 1,687,814; Oct. 16.
Western Electric Company. (See Clement, Lew's M., assignor.)
Western Electric Company. (See Farrington, John F., assignor.)
Western Electric Company. (See Hinrichsen, Edward E., assignor.)
Western Electric Company. (See Ives, Herbert E., assignor.)
Western Electric Company. (See Liss, August S., assignor.)
Western Electric Company. (See McMullan, Samuel, assignor.)
Western Electric Company. (See Nichols, Harold W., assignor.)
Western Electric Company. (See Pearson, Albert, assignor.)
Western Electric Company. (See Ryan, Francis M., assignor.)
Western Electric Company. (See Smith, Andrew B., assignor.)
Western Electric Company. (See Sturdevant, Earl G., assignor.)
Western Electric Company. (See Wheeler, Edmund B.)
Western Pipe and Steel Company of California. (See Rupley, William E., assignor.)
Westfälische Metallwarenfabrik G. m. b. H. (See Verse, Fritz E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric & Manufacturing Company. (See Ashbaugh, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, Walter J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Burnham, L. F., Keim, and Schafer, assignors.)
Westinghouse Electric & Manufacturing Company. (See Conant, David J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fay, Carl J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gelman, M., and Urschler, assignors.)
Westinghouse Electric & Manufacturing Company. (See Greenawalt, Lewis J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanna, Clinton R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hess, Duncan C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hilmes, Walter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lincoln, Rollo B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)
Westinghouse Electric & Manufacturing Company. (See Matthews, Howard D., assignor.)
Westinghouse Electric & Manufacturing Company. (See McCoy, Walter E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Paschen, Paul, assignor.)
Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ray, James L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reynders, Arthur B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Staege, Stephen A., assignor.)
Westinghouse Electric & Manufacturing Company. (See von Kandó, Kalman, assignor.)
Wetherbee, Herbert E., assignor of one-third to R. F. Grant and one-third to H. M. Hanna, Cleveland, Ohio. Treating and forming artificial fuel. 1,687,815; Oct. 16.
Whalen, James, Omaha, Nebr. Fluid-pole electric switch. 1,688,217; Oct. 16.
Wheeler, Edmund B., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulated conductor. 1,687,912; Oct. 16.
Wheeler, William, Brooklyn, N. Y. Internal-combustion engine. 1,688,218; Oct. 16.
White, Alfred N., Los Angeles, Calif. Automatic braking device for automobiles. 1,687,913; Oct. 16.
White, Jacob B., Columbus, Ohio. Bedspring brace. 1,688,257; Oct. 16.
Whitley, James E., Hemet, Calif. Locking cap for fuel tanks. 1,687,601; Oct. 16.
Whitney, Clarence E., et al., executors. (See Hanson, Bengt M. W.)
Whitson, John, New York, N. Y. Cabinet for sound-reproducing mechanism. Des. 76,651; Oct. 16.
Whittaker, Arthur, Windsor, Ontario, Canada. Wall-type electric heater. 1,688,168; Oct. 16.
Wilder, Joel O., jr., Berkeley, Calif. Dental impression device. 1,687,914; Oct. 16.
Wilkes, Frederick C. D., and F. K. Flynn, Watertown, Wis., assignors, by mesne assignments, to Luce Cane Harvester Corporation, New York, N. Y. Separator plow for cane harvesters and the like. 1,688,137; Oct. 16.
Willett, Benedict E., assignor to J. T. Dietz, Dayton, Ohio. Display stand. 1,687,962; Oct. 16.
Willey, Claude S., Detroit, Mich. Sign and mounting the same. 1,687,602; Oct. 16.
Williams, E. R. (See Fry, Byron G., assignor.)
Williams, James E., Spring City, Pa. Shoe. 1,687,915; Oct. 16.
Williams, John D., Niles, Ohio. Machine for piling sheets, plates, and the like. 1,688,219; Oct. 16.
Wilson Fastener Company, The. (See Wilson, Frank E., assignor.)
Wilson, Frank E., assignor to The Wilson Fastener Company, Cleveland, Ohio. Garter buckle. 1,687,816; Oct. 16.
Wilson, Frank E., assignor to The Wilson Fastener Company, Cleveland, Ohio. Garter buckle. 1,687,817; Oct. 16.
Wilson Welder & Metals Company. (See Churchward, Alexander, assignor.)
Wilson, William W., Los Angeles, G. C. Deakins, Anaheim, and R. R. Shull, Long Beach, Calif. Pump valve. 1,687,745; Oct. 16.
Wingfield, Grover L., Sandstone, W. Va. Trap. 1,687,963; Oct. 16.
Wingler, August, Elberfeld, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, New York, N. Y. Isoamyl ester of the di-iodide of behenolic acid and producing same. 1,688,100; Oct. 16.
Wingler, August, Elberfeld, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Isobutyl ester of the di-iodide of behenolic acid and preparing same. 1,688,169; Oct. 16.
Winstead, Martin A., J. D. Reid, and W. C. Moody, Lundell, Ark. Antichoke roll agitator. 1,687,964; Oct. 16.
Winthrop Chemical Company. (See Wingler, August, assignor.)
Wire Transmitting Corporation. (See Pearne, F. D., and Gotsch, assignors.)

Wired Radio, Inc. (See Crossley, Alfred, assignor.)
Wirz, Ernst, A. Haller, and K. Kuntze, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Controller construction. 1,687,999; Oct. 16.
Wojciechowski, Frank M., North Attleboro, assignor to Marathon Company, Attleboro, Mass. Vanity case. 1,688,301; Oct. 26.
Wolf, Frank, New York, N. Y. Arch support. 1,687,916; Oct. 16.
Wolfe, Frank, et al. (See McMurtrie, W. B., and Gover, assignors.)
Wolfer, Paul C., Wellesley, Mass. Last. 1,688,065; Oct. 16.
Wolff, Hans. (See Henkel, E., and Wolff.)
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 76,652; Oct. 16.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 76,653; Oct. 16.
Wolff, Max, Coney Island, N. Y. Confection-making machine 1,687,702; Oct. 16.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Lens mount. 1,687,818; Oct. 16.
Wollensak Optical Company. (See Wollensak, Andrew, assignor.)
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,687,917; Oct. 16.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,687,918; Oct. 16.
Woodward & Cochey Manufacturing Company. (See Strout, Lester B., assignor.)
Workman, Ellison E. (See Robinson, Edward A., assignor.)
Worthington, John R., Penfield, N. Y. Roll holder. 1,687,819; Oct. 16.
Wright, George M., London, England, assignor to Radio Corporation of America. Directional aerial. 1,687,746; Oct. 16.
Wright, Richard H. (See Dalton, John T., assignor.)
Wright, William, Chicago, Ill., assignor to E. P. Smith, Springfield, Ill. Combined check plate and draft-key anchor. 1,687,533; Oct. 16.
Wright, William, Chicago, Ill., assignor to E. P. Smith, Springfield, Ill. Brake-gear mounting. 1,687,534; Oct. 16.
Wyatt, James R., Camden, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa. Furnace lining and making same. 1,688,220; Oct. 16.
Xippas, Socrates A., Buffalo, N. Y. Signal box. Des. 76,655; Oct. 16.
Yablick, Max, Newark, N. J. Making silica gel. 1,687,919; Oct. 16.
Yale & Towne Manufacturing Company, The. (See Jackson, A. C., and Kroll, assignors.)
Yanchenko, Basil J., New York, assignor to the Prosperity Company, Inc., Syracuse, N. Y. Power press. 1,688,066; Oct. 16.
Yokel, Frank, Cleveland, Ohio, assignor, by mesne assignments, to Markel Electric Products, Inc., Buffalo, N. Y. Heating unit for electric heaters. Des. 76,654; Oct. 16.
Yokoyama, Yoshimatsu. (See Kawamura, Kojiro, assignor.)
Young, Ervin A., Wadsworth, Ohio. Bottle-nipple perforator. 1,688,258; Oct. 16.
Young, Henry S., Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,687,920; Oct. 16.
Zachs, William, et al. (See Hamilonoff, Simon A., assignor.)
Zernik, Franz, Wurzburg, Germany. Light filter. 1,688,259; Oct. 16.
Zetterlund, Carl, Chicago, Ill. Hoisting apparatus. 1,688,170; Oct. 16.
Zimmerman, Harry G., Philadelphia, Pa. Trap cover and clamp. 1,688,171; Oct. 16.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Hobber with quickly-demountable arbor support. 1,687,921; Oct. 16.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive devices, Manufacture of. M. C. Hutto. 1,687,770; Oct. 16.
Accordion. R. Pancotti. 1,688,151; Oct. 16.
Acid and preparing same, Isobutyl ester of the di-iodide of behenolic. A. Wingler. 1,688,169; Oct. 16.
Adjusting device. L. G. Pacent. 1,688,313; Oct. 16.
Advertising device. G. Marschall. 1,688,317; Oct. 16.
Advertising device for dispensing machines. J. E. Kenkel. 1,688,278; Oct. 16.
Aerial, Directional. G. M. Wright. 1,687,746; Oct. 16.
Agitator for washing machines. A. W. Altorfer. 1,688,001; Oct. 16.
Agricultural carriage. G. J. W. Lauenstein. 1,687,618; Oct. 16.
Air from suction boxes, Apparatus for withdrawing. M. Wenzel. 1,688,216; Oct. 16.
Alarm: *See*—
Circuit alarm.
Alarm device. H. Moeser. 1,687,876; Oct. 16.
Albumin preparations, Manufacturing. A. Busch. 1,688,228; Oct. 16.
Alcohols, Making olefine. F. W. Lommen. 1,688,083; Oct. 16.
Alloy. J. A. Gann. 1,688,043; Oct. 16.
Alloy and its application to the manufacture of electrical conductors. W. S. Smith, H. J. Garnett, and J. A. Holden. 1,688,247; Oct. 16.
Alloy, Bearing. C. H. Bierbaum. 1,687,924; Oct. 16.
Alloy, Ferrous. P. A. E. Armstrong. 1,687,486; Oct. 16.
Aluminate and preparing the same, Tribarium. G. W. Morey. 1,688,054; Oct. 16.
Amplifying system. W. L. Carlson. 1,687,540; Oct. 16.
Amplifying system. A. Crossley. Re17,105; Oct. 16.
Anchor, Sleeper. W. H. Andrews. 1,688,102; Oct. 16.
Anchoring bolts. R. A. Mirzan. 1,688,087; Oct. 16.
Angle bar, Compromise. W. Bender. 1,688,107; Oct. 16.
Animal trap. A. E. Rudeen. 1,687,737; Oct. 16.
Antenna. R. Engebretsen. 1,688,229; Oct. 16.
Arch support. F. Wolf. 1,687,916. Oct. 16.
Aromatic amino sulphocyano derivatives, Manufacture of. O. Spengler. 1,687,596; Oct. 16.
Article-forming apparatus. A. S. Liss. 1,687,574; Oct. 16.
Articulator for artificial dentures. D. S. Hill. 1,687,864; Oct. 16.
Ash receptacle or similar article, Smoker's. A. J. Mornaghini. Des. 76,625; Oct. 16.
Assembling knives, Apparatus for. D. Gerlin. 1,687,978; Oct. 16.
Athletic apparatus. R. S. Blair. 1,688,033; Oct. 16.
Atomizing device. F. Lang. 1,687,672; Oct. 16.
Automobile lock. O. S. Hershey. 1,687,836; Oct. 16.
Automobile seat, Sliding. H. R. De Veau. 1,688,316; Oct. 16.
Auxiliary seat, Collapsible. B. J. Belohlavek. 1,688,225; Oct. 16.
Awning construction. C. E. Godske. 1,688,010; Oct. 16.
Bag making and filling machine. J. T. Dalton. 1,688,268; Oct. 16.
Bag-making machines, Slitting device for. W. M. Seitzinger. 1,688,091; Oct. 16.
Bale tie. B. Anderson. 1,687,854; Oct. 16.
Bank construction, Burglarproof. D. G. Earl. 1,687,833; Oct. 16.
Bar: *See*—
Angle bar.
Bar-bending machine. S. Macomber. 1,687,776; Oct. 16.
Barricade. E. W. Acker. 1,687,820; Oct. 16.
Barrier and crossing, Stock. J. C. Kamas. 1,688,238; Oct. 16.
Basing machine for incandescent lamps and similar articles, Precision-. T. O. Moffit and R. K. Braunsdorff. 1,687,504; Oct. 16.
Basket, Refrigerator. S. A. Megeath. 1,688,125; Oct. 16.
Bathing compartment. E. R. Boyle. 1,687,711; Oct. 16.
Battery plate. R. L. Ellery. 1,687,752; Oct. 16.
Bearing. W. H. Himes. 1,687,668; Oct. 16.
Bearing for shaft supports. A. P. Strong. 1,687,806; Oct. 16.
Bearing, Roller. J. W. Foley. 1,687,755–6; Oct. 16.
Bed, Automobile. W. L. Thatcher. 1,687,742; Oct. 16.
Bed for premature and feeble infants, Inclosed. H. J. W. Morgenthaler. 1,688,200; Oct. 16.
Bedspring brace. J. B. White. 1,688,257; Oct. 16.
Beet-topping machine. J. Mazzocco. 1,687,730; Oct. 16.
Belt clamp. A. R. Bruce and E. T. Thornton. 1,688,262; Oct. 16.
Bias cutter, Rotary. C. W. Steele. 1,687,598; Oct. 16.
Blade, Drill. H. W. Pleister. 1,688,153; Oct. 16.
Bleaching foodstuffs. W. B. Stoddard and V. R. Kokatnur. 1,687,805; Oct. 16.
Bleaching, Process of and composition for. W. B. Stoddard and V. R. Kokatnur. 1,684,803–4; Oct. 16.
Board: *See*—
Ironing board.
Boat. L. L. Tripp. Des. 76,647; Oct. 16.
Boat, Speed. F. C. Martin. Des. 76,623; Oct. 16.
Body plate. B. Newland. Des. 76,627–8; Oct. 16.
Boiler: *See*—
Heating boiler.
Boiler and operating the same, Electric steam. N. J. Neall and R. W. Chadbourn. 1,688,201; Oct. 16.
Boiler system, Waste-heat. H. B. Smith. 1,687,740; Oct. 16.
Bottle. J. Petry. 1,687,689; Oct. 16.
Bottle and closure. E. E. McGill. 1,688,198; Oct. 16.
Bottle indicator and coin holder, Milk. G. W. Trask. 1,687,956; Oct. 16.
Bow for archery. R. H. Cowdery. Des. 76,608; Oct. 16.
Box: *See*—
Compact box.
Box. F. J. Schleicher. Des. 76,639; Oct. 16.
Box lifter. H. Fassbender. 1,687,552; Oct. 16.
Brace: *See*—
Bedspring brace. Stacking brace.
Bracelet. I. R. Lederer. Des. 76,620; Oct. 16.
Bracelet link, Extendible. E. Prestinari. 1,688,090; Oct. 16.
Bracket: *See*—
Fixture bracket. Thread-cleaner bracket.
Shade and curtain bracket.
Bracket. J. A. Tesk. 1,688,096; Oct. 16.
Brake: *See*—
Shoe brake.
Brake lock. C. A. Smith and W. G. Bowers. 1,688,290; Oct. 16.
Brake mechanism, Automatic bleeding mechanism for air lines of train air-. W. F. Dishon. 1,687,975; Oct. 16.
Brake operator for incline hoists, Automatic. H. H. Logan. 1,687,621; Oct. 16.
Braking device for automobiles, Automatic. A. N. White. 1,687,913; Oct. 16.
Bread mixer. G. Solarz. 1,688,211; Oct. 16.
Brine or other liquors, Production of clear. A. W. Allen. 1,687,703; Oct. 16.
Broach mechanism. H. D. Croft. 1,688,177; Oct. 16.
Broom attachment for sweeping machines, Gutter. M. V. Liddell. 1,687,728; Oct. 16.
Brush, Scrubbing. G. Cohen. 1,687,831; Oct. 16.
Buckle, Garter. F. E. Wilson. 1,687,816–17; Oct. 16.
Buckle, Slide. R. J. Hodge. 1,688,046; Oct. 16.
Building construction. A. Braunstein. 1,688,134; Oct. 16.
Bumper, Automobile. D. D. Myers. 1,687,880; Oct. 16.
Bumper for motor vehicles. C. B. Smith. 1,688,026; Oct. 16.
Burner: *See*—
Liquid-fuel burner. Oil burner.
Bushing, Oil-filled insulating. G. A. Burnham. 1,688,302; Oct. 16.
Button, Spring-pressure. L. Fouletier. 1,688,272; Oct. 16.
Cabinet. H. F. Herman. 1,687,559; Oct. 16.
Cabinet disposer, Paper-towel-. F. Lawrence and V. F. Halliburton. 1,688,242; Oct. 16.
Cabinet for fluid-dispensing outfit. W. E. Milestone. Des. 76,624; Oct. 16.
Cabinet for ironing machines, Wall. M. Hedglon. 1,687,765; Oct. 16.
Cabinet for sound-reproducing mechanism. J. Whitson. Des. 76,651; Oct. 16.
Cable suspension for hoisting buckets. A. F. Case. 1,687,543; Oct. 16.
Calendar, Perpetual. C. E. Palmer. 1,687,950; Oct. 16.
Calendar structure. G. Tilden. 1,687,743; Oct. 16.
Call register. A. Pentecost. 1,687,633; Oct. 16.
Can: *See*—
Oil can.
Can opener. A. Noble. 1,687,582; Oct. 16.
Car construction, Refrigerator-. D. Finley. 1,687,934; Oct. 16.
Car, House. K. J. Tobin, A. Wasberg, and G. Madland. 1,687,699; Oct. 16.
Car-wall structure. C. D. Bonsall. 1,688,133; Oct. 16.
Carburetor. M. Purvis and T. Lee. 1,688,285; Oct. 16.
Carburetor. R. M. Swearengin. 1,688,029; Oct. 16.
Cardboard, Apparatus for the grooving of. E. Mögel. 1,687,683; Oct. 16.
Card, Score. K. Boe. Des. 76,601; Oct. 16.
Carrier: *See*—
Chair carrier. Tire carrier.
Carrier currents, System of modulating. A. Weaver. 1,688,292; Oct. 16.
Carrying frame. C. M. Kruger. 1,687,839; Oct. 16.
Carton. G. F. Riegel. Des. 76,634; Oct. 16.
Carton and method of wrapping mops. P. Brown. 1,687,655; Oct. 16.

Case: *See*—
Key case. Vanity case.
Case for music records. H. J. Bell. 1,688,224; Oct. 16.
Caster lock. A. R. Oberwegner. 1,687,631; Oct. 16.
Casting ferrous metals. W. P. and B. Shimer. 1,687,799; Oct. 16.
Catapult. B. G. Fry. 1,687,757; Oct. 16.
Cell, Primary. C. A. Gillingham. 1,688,073; Oct. 16.
Cellulose-bearing material for subsequent saccharification, Neutralizing. J. Perl. 1,687,785; Oct. 16.
Cellulose esters and of their compositions, Manufacture of articles of. K. W. Schwartz. 1,688,060; Oct. 16.
Cement product. R. V. Mattison. 1,687,681; Oct. 16.
Chair carrier, Portable. C. Weber. 1,687,812; Oct. 16.
Chalking cue tips, Device for. J. O. Miller. 1,688,310–11; Oct. 16.
Chandelier. B. Newland. Des. 76,630; Oct. 16.
Checkerwork and brick therefor. A. E. Peterson. 1,687,786; Oct. 16.
Cheek plate and draft-key anchor, Combined. W. Wright. 1,687,533; Oct. 16.
Chemicals and moisture from lumber, wood, and other substances, Process and apparatus for removing. H. C. Babel. 1,687,822; Oct. 16.
Chenille-making machine. E. Kriegl. 1,687,942; Oct. 16.
Chest lock. A. Arcadu. 1,687,485; Oct. 16.
Cigar lighter. A. Bates. Des. 76,596; Oct. 16.
Circuit alarm. M. H. Shoenberg and L. Schon. 1,687,902; Oct. 16.
Circuit interrupter. C. Aalborg. 1,687,642; Oct. 16.
Circuit interrupter. W. E. McCoy. 1,687,629; Oct. 16.
Circuit interrupter. F. Roberson. 1,687,515; Oct. 16.
Circuits, Antiside-tone substation. H. C. Pye. 1,687,695; Oct. 16.
Circuits for selector switches, Trunk-testing. E. E. Hinrichsen. 1,687,669; Oct. 16.
Clamp: *See*—
Combination clamp. Frame clamp.
Concrete-form clamp. Saw-brazing clamp.
Conduit clamp.
Clamp for anæsthetizing machines. J. A. Heidbrink. 1,687,768; Oct. 16.
Clarifying cane molasses for the growing of yeast. C. Hoffman, C. N. Frey, and F. M. Hildebrandt. 1,687,561; Oct. 16.
Cleaner: *See*—
Windshield cleaner.
Cleaner for skimming disks of cream separators. C. Molstad. 1,688,244; Oct. 16.
Cleaning ballast, Apparatus for. P. H. Hamilton. 1,687,724; Oct. 16.
Cleaning device, Working-barrel-. D. E. Norris. 1,687,781; Oct. 16.
Cleaning devices, Water seal for. R. L. Jewel. 1,687,617; Oct. 16.
Cleat for sport shoes. G. L. Pierce. 1,687,634; Oct. 16.
Clip: *See*—
Suspension clip.
Clock case. W. H. Balzer. Des. 76,595; Oct. 16.
Clock frame, Alarm-. P. Siptrott. Des. 76,643–4; Oct. 16.
Clock, Synchronizing. J. W. Bryce. 1,687,491; Oct. 16.
Clothes hanger. M. B. Krafthefer. Des. 76,618; Oct. 16.
Clutch and brake assembly for power-driven machines. A. A. Morris. 1,687,778; Oct. 16.
Clutch, Automatic. F. D. Pearne and L. E. Gotsch. 1,687,587; Oct. 16.
Coils of flexible material and coils and core members relating to same, Producing. R. M. Johnstone. 1,687,938; Oct. 16.
Coin-carrier print protector. J. I. Van Vranken. 1,687,810; Oct. 16.
Collar, Animal. G. R. Branner. 1,688,261; Oct. 16.
Color plates, Preparing. F. Sass. 1,687,593; Oct. 16.
Combination clamp. O. C. Staples. 1,687,851; Oct. 16.
Comfortable, Bed. R. H. Melcer. 1,687,580; Oct. 16.
Compact box. H. J. Gaess. 1,688,042; Oct. 16.
Compass, Gyroscopic. H. L. Tanner. 1,687,955; Oct. 15.
Compass, Liquid-controlled gyroscopic. L. F. Corliss. 1,687,970; Oct. 16.
Composition of matter for transfer designs. O. L. Davis. 1,688,117; Oct. 16.
Compound, Softening. F. J. Pilgrim. 1,687,787; Oct. 16.
Compound structure. E. Moccetti. 1,688,128; Oct. 16.
Concrete-form clamp. H. Ford. 1,687,976–7; Oct. 16.
Concrete pile. M. M. Upson. 1,688,064; Oct. 16.
Conduit clamp. J. C. Boyton. 1,687,750; Oct. 16.
Confection-coating machine. W. A. Moir. 1,687,947; Oct. 16.
Confection-making machine. F. L. Borchert. 1,687,707; Oct. 16.
Confection-making machine. M. Wolff. 1,687,702; Oct. 16.
Confectionery-coating machine. J. Massarella. 1,688,149; Oct. 16.
Connecter. J. Clark. 1,688,176; Oct. 16.
Connecting rod, Rail-. F. H. Lamb. 1,687,840; Oct. 16.
Contacting fluids with solids, Apparatus for. P. R. Gray. 1,688,012; Oct. 16.
Container or wrapper. G. P. Mallory. 1,687,678; Oct. 16.
Control, Desuperheater. J. M. Barrett. 1,688,132; Oct. 16.
Control device. H. D. Matthews. 1,687,680; Oct. 16.
Control mechanism for hoists, lifts, and the like. H. W. C. Liddiard. 1,687,501; Oct. 16.
Control of liquid-fuel burners, Method of and apparatus for. R. F. Metcalfe. 1,688,126; Oct. 16.
Control system, Elevator. E. M. Bouton. 1,687,654; Oct. 16.
Controller. C. L. Perry. 1,687,508; Oct. 16.
Controller construction. E. Wirz, A. Haller, and K. Kuntze. 1,687,999; Oct. 16.
Conveying apparatus, Cotton-. C. E. Coldwell. 1,687,713; Oct. 16.
Cooking utensil. E. E. Drumm. 1,688,039; Oct. 16.
Cooling apparatus. E. H. Steedman. 1,688,158; Oct. 16.
Cooling system. W. H. Carrier. 1,687,542; Oct. 16.
Cotton-picking machine. A. J. Kieffer. 1,687,571; Oct. 16.
Coupler-operating device, Car-. L. S. Pratt. 1,688,154; Oct. 16.
Coupling: *See*—
Pipe coupling.
Cover and clamp, Trap. H. G. Zimmerman. 1,688,171; Oct. 16.
Crate, Folding. A. W. Wagoner. 1,688,253; Oct. 16.
Crate for luminous tubes or other fragile articles, Transporting. R. J. McRae. 1,687,630; Oct. 16.
Cribbing, Reenforced-concrete. J. M. Fitzgerald. 1,688,305; Oct. 16.
Cross arms and insulator pins, Reduction of attenuation due to the conductance losses in. C. S. Gordon and J. T. Lowe. 1,687,556; Oct. 16.
Cup: *See*—
Paper cup.
Current motor. C. J. Baer. 1,687,923; Oct. 16.
Cut-off for stopcocks, Automatic. A. Haslinger. 1,688,233; Oct. 16.
Cut-out for electric incandescent lamps, Automatic. I. H. Van Horn and W. A. Pipkin. 1,687,530; Oct. 16.
Cutter: *See*—
Bias cutter. Rotary cutter.
Dough cutter.
Cutter. W. P. Marston, jr. 1,687,869; Oct. 16.
Cutter-clearance gauge. F. L. Gillett. 1,687,649; Oct. 16.
Cutting and feeding mechanism for confection-bar-making machines. F. L. Borchert. 1,687,708; Oct. 16.
Cutting device, Automatic. M. Castricum and P. L. Butterfield. 1,687,928; Oct. 16.
Cutting fowls, Apparatus for. H. Goldfinger. 1,687,663; Oct. 16.
Cutting, splitting, and capping machine, Fuse. J. McLean. 1,688,122; Oct. 16.
Cutting stone and like material, Apparatus for. E. and H. Ainley. 1,687,965; Oct. 16.
Cyclic process of using barium compounds in the manufacture of sugar. H. W. Dahlberg. 1,688,071; Oct. 16.
Cylinder head for internal-combustion engines. E. H. Tartrais. 1,687,526; Oct. 16.
Cylinder structure, Locomotive-. H. A. F. Campbell. 1,688,174; Oct. 16.
Cylinders or the like, Steam fitting for journals of rotary steam. A. Aldrich and E. E. Berry. 1,688,172; Oct. 16.
Cystoscope. T. Malmgren. 1,688,205; Oct. 16.
Darning form, Stocking-. H. E. Hodgson. 1,688,047; Oct. 16.
Delivery apparatus, Check-controlled article-. E. B. Herman. 1,687,612; Oct. 16.
Dental amalgam mixer. G. E. Terranova. 1,688,062; Oct. 16.
Dental bridgework, Removable. A. P. Jurgensen. 1,688,145; Oct. 16.
Dental crown. J. Petry. 1,687,690; Oct. 16.
Dental impression device. J. O. Wilder, jr. 1,687,914; Oct. 16.
Denture press. L. A. Cremer. 1,688,070; Oct. 16.
Derail. M. J. Helmes. 1,687,667; Oct. 16.
Device used in pie baking. L. F. Nelson. 1,687,846; Oct. 16.
Die block and treating steel for use in the manufacture thereof. H. A. Brassert. 1,687,825; Oct. 16.
Die-casting machine. L. A. Paley. 1,688,055; Oct. 16.
Differential flotation process for mixed sulphide ores. K. Kawamura. 1,688,277; Oct. 16.
Dirigible light. L. M. Walden. 1,688,213; Oct. 16.
Disher, Multiple ice-cream. O. Hinz and R. Merrell. 1,688,079; Oct. 16.
Disinfectants to the water contained in tanks used for water-closets and other like flushing purposes, Means or apparatus for supplying liquid. G. A. Turner. 1,688,098; Oct. 16.
Dispenser, Sugar. B. Levy. 1,688,123; Oct. 16.
Dispensing apparatus. S. Hinds. 1,688,314; Oct. 16.
Dispensing device. L. Androff. 1,687,705; Oct. 16.
Display appliance. J. T. Powers. 1,687,790; Oct. 16.
Display device. H. L. Myers. 1,687,881; Oct. 16.
Display device for screens. L. Wasch. 1,688,255; Oct. 16.
Display rack. E. A. De Karske. 1,688,004; Oct. 16.
Display stand. J. G. Huye. 1,687,616; Oct. 16.
Display stand. R. K. Irvine. 1,688,048; Oct. 16.
Display stand. R. B. Meller. 1,687,875; Oct. 16.
Display stand. B. E. Willett. 1,687,962; Oct. 16.
Displaying samples. R. F. Stenz. 1,688,249; Oct. 16.
Distillation of coal and similar carbonaceous substances. C. H. Parker. 1,687,990–1; Oct. 16.
Doll. L. S. Newell and C. E. Brown. Des. 76,631; Oct. 16.
Domino and making the same. T. C. Graham. Re17,103; Oct. 16.
Door, Automobile end. G. G. Gilpin. 1,688,140; Oct. 16.
Door construction, All-metal. W. Marshall. 1,688,085; Oct. 16.
Door construction, Side-. K. J. Tobin and W. W. Darrow. 1,687,997; Oct. 16.
Door-framing device. H. G. Waltke. 1,687,532; Oct. 16.
Door hanger, Car-. J. D. Kuhn. 1,688,191; Oct. 16.

Door lock. A. Del Rosso. 1,688,207; Oct. 16.
Door, Metal. W. R. Brace. 1,687,537; Oct. 16.
Door retainer. W. Stutson. 1,688,095; Oct. 16.
Door retainer and bumper, Combination. W. Stutson. 1,688,028; Oct. 16.
Doorstop. M. J. Sasgen. 1,687,517; Oct. 16.
Door stop and holder, Combination. C. J. Abbey. 1,688,221; Oct. 16.
Dough cutter. F. Matzelle. 1,688,283; Oct. 16.
Double-swivel hook. C. M. C. Barrett. 1,688,293; Oct. 16.
Downdraft heater. H. J. Rupp. 1,687,638; Oct. 16.
Draft device, Forced-. C. Ducas. 1,688,118; Oct. 16.
Drainer, Crank-case. H. Higgins, A. L. Fish, and J. L. O'Hare. 1,687,980; Oct. 16.
Drawing ring for wire-drawing machines. P. Darmstadt, W. Stegmann, and V. Weil. 1,688,159; Oct. 16.
Drier. H. W. Clark. 1,687,829; Oct. 16.
Drier. L. Judelson. 1,687,772; Oct. 16.
Drill: *See*—
Rock drill
Drill joint, Coal-mining-. T. Turbis. 1,687,909; Oct. 16.
Driving means for rotary devices. J. R. Mahan and J. B. Picard. 1,688,084; Oct. 16.
Driving mechanism for engine accessories. H. A. Gehres. 1,687,609; Oct. 16.
Dropper: *See*—
Seed dropper.
Drum, Pick-up. D. W. Olinger. 1,687,685; Oct. 16.
Drying brick and tunnel therefor. C. E. Fuller. 1,688,306; Oct. 16.
Drying corrodible materials. A. Pearson. 1,687,588; Oct. 16.
Dyeing composition. A. David. 1,687,751; Oct. 16.
Dyes from disulphonaphthyl pyrazolones and o-aminohydroxybenzenes, Monazo. L. W. Geller. 1,688,045; Oct. 16.
Dyes from pyrazolones and aminobenzene-polysulphonic acids, Monazo. L. W. Geller. 1,688,044; Oct. 16.
Dyestuffs of the anthraquinone series. K. Weinand. 1,688,256; Oct. 16.
Ejector for gas systems, Air and foul-gas. D. C. Springer. 1,687,597; Oct. 16.
Electric conductor, Flexible. H. C. Carpenter. 1,688,303; Oct. 16.
Electric furnace. R. B. Lincoln. 1,687,676; Oct. 16.
Electric heater. E. Stallworth. 1,687,521; Oct. 16.
Electric heater, Wall-type. A. Whittaker. 1,688,168; Oct. 16.
Electric machine, Automatic control of dynamo-. J. I. Hull. 1,687,564; Oct. 16.
Electric switch. L. Hamer. 1,687,611; Oct. 16.
Electric switch. J. D. Hilliard. 1,687,560; Oct. 16.
Electric switch, Fluid-pole. J. Whalen. 1,688,217; Oct. 16.
Electrical apparatus. R. H. Langley. 1,687,500; Oct. 16.
Electrical apparatus. R. H. Langley. 1,687,868; Oct. 16.
Electrical centering device. A. B. Reynders. 1,687,637; Oct. 16.
Electrical compound letter. B. D. Coffey. 1,688,266; Oct. 16.
Electrical heater. F. C. Curtis. 1,687,858; Oct. 16.
Electrification pole. C. M. Goodrich. 1,687,979; Oct. 16.
Electrode for electric boilers. N. J. Neall and R. W. Chadbourn. 1,688,202; Oct. 16.
Electron-discharge device. H. J. Nolte. 1,687,505; Oct. 16.
Elevator mechanism for conveyers. H. I. Lahr. 1,687,573; Oct. 16.
Embroidered fabric. J. Walder. Des. 76,650; Oct. 16.
Energy developed through the momentum of moving trains, Applying to useful purposes the. B. B. Bryan, jr. 1,687,927; Oct. 16.
Engine: *See*—
Internal-combustion engine. Reciprocating engine.
Engine-cooling system. H. C. Mallory. 1,687,679; Oct. 16.
Exercising machine, Finger-. J. V. Jugo. 1,688,188; Oct. 16.
Exhaust ventilator. P. R. Jordan. 1,688,082; Oct. 16.
Expansible and contractible element and mounting therefor. I. E. McCabe. 1,687,842; Oct. 16.
Eyeglass frame. S. E. Bouchard. Des. 76,602; Oct. 16.
Fan and heater, Electric. J. E. and T. E. Clark. 1,687,544; Oct. 16.
Fan, Spring-driven. F. J. Sirl. 1,687,996; Oct. 16.
Fastener, Bag. B. Stember. Des. 76,646; Oct. 16.
Fastener, Sash. D. I. Platt. 1,688,246; Oct. 16.
Fastening. G. E. Bradbury. 1,687,538; Oct. 16.
Fastening, Blade. J. L. Ray. 1,687,891; Oct. 16.
Fastening means, Adjustable. J. C. McNally. 1,687,874; Oct. 16.
Feeding device for nailing machines, Automatic nail-. E. Albert. 1,688,260; Oct. 16.
Feeding device, Material-. A. B. Smith. 1,687,524; Oct. 16.
Feeding means for grading apparatus. W. P. Bullard. 1,688,263; Oct. 16.
Felt and felt material and articles, such as hats and hat bodies, made of the same. H. Stein, W. E. Austin, and I. Liebowitz. 1,687,802; Oct. 16.
Felts and felt materials, Fabricating. H. Stein, W. E. Austin, and I. Liebowitz. 1,687,801; Oct. 16.
Fiber board and making same. C. A. Upson. 1,687,599; Oct. 16.
Fiber core. H. Parker. 1,687,586; Oct. 16.
Filleting fish, Apparatus for. R. Baader. 1,687,922; Oct. 16.
Filling machine. J. R. Litty and T. B. Lundin. 1,687,944; Oct. 16.
Filter. W. C. Graham. 1,687,863; Oct. 16.
Filter. B. J. Pierson. 1,688,152; Oct. 16.
Filter, Light. F. Zernik. 1,688,259; Oct. 16.
Fire-box foundation ring. L. L. Neebe. 1,688,203; Oct. 16.
Fire extinguisher. P. G. MacGregor. 1,688,195; Oct. 16.
Fireproof safe. C. J. Bates, jr. 1,688,106; Oct. 16.
Fire-wall construction. M. Liptak. 1,688,192; Oct. 16.
Fishing reel. F. M. Case. 1,688,135; Oct. 16.
Fitting for drainage of lubricants from lubricant-containing cases. L. S. Bessonett. 1,687,823; Oct. 16.
Fixture bracket. G. N. Littleton. 1,688,193; Oct. 16.
Fixture, Toilet-paper. W. E. Swift. 1,687,741; Oct. 16.
Floor block for disposal tanks. J. M. Norton. 1,687,782; Oct. 16.
Floor for elevator cars, Movable. J. Rice. 1,687,794; Oct. 16.
Flowerpot or similar article. M. A. Buchwalter. Des. 76,606; Oct. 16.
Fluid, Method of and apparatus for compressing. C. D. Ehret. 1,687,550; Oct. 16.
Fluid-pressure tank. C. Aalborg. 1,687,641; Oct. 16.
Folding and fastening machine, Box-blank. A. T. Campbell. 1,688,115; Oct. 16.
Footgear-forming machine. A. Eichberg and H. Dietz. 1,688,007; Oct. 16.
Forging balls from long bars. A. Canda. 1,688,175; Oct. 16.
Former and supporter, Virgin-bust. A. Hagelman. 1,688,143; Oct. 16.
Forming and tempering apparatus. J. Gogan. 1,688,142; Oct. 16.
Frame: *See*—
Carrying frame. Side frame.
Frame clamp. I. A. Baum. 1,687,536; Oct. 16.
Frame for buildings. J. G. Shodron. 1,687,850; Oct. 16.
Frost-prevention device for windows. S. A. Hamilonoff. 1,688 014; Oct. 16.
Frying machine. E. A. Denz and J. E. Titus. 1,688,315; Oct. 16.
Furnace: *See*—
Electric furnace. Hot-air furnace.
Heating furnace. Metallurgical furnace.
Furnace. M. Baran. 1,688,105; Oct. 16.
Furnace and electrode crane, Electric. A. E. Greene. 1,687,937; Oct. 16.
Furnace and method of operation, Electric. A. E. Greene. 1,687,936; Oct. 16.
Furnace and operating the same, Reversing. W. de Fries. 1,687,710; Oct. 16.
Furnace lining and making the same. J. R. Wyatt. 1,688,220; Oct. 16.
Furnace rabble arm. E. J. Fowler. 1,687,935; Oct. 16.
Furnaces, Operation of open-hearth. F. B. McKune. 1,687,682; Oct. 16.
Furniture, Making composite panels for metal. J. Stander. 1,687,952; Oct. 16.
Fuse-setting device for projectiles. A. T. Dawson and G. T. Buckham. 1,687,644; Oct. 16.
Game, Baseball. G. Smith. 1,687,800; Oct. 16.
Game device. E. Lestage. 1,687,775; Oct. 16.
Gauge: *See*—
Cutter-clearance gauge. Price gauge.
Liquid-level gauge.
Gear for the bucket chains of dredgers, Driving. H. A. J. de B. Nachenius. 1,687,845; Oct. 16.
Gear mounting, Brake-. W. Wright. 1,687,534; Oct. 16.
Gear-shifting mechanism. G. T. Randol. 1,687,590; Oct. 16.
Gear-shifting mechanism. G. T. Randol and R. S. Plexico. 1,687,591; Oct. 16.
Gear, Valve. A. E. Hall. 1,687,557; Oct. 16.
Gear wheel, Adjustable. C. F. Moon. 1,687,987; Oct. 16.
Gear wheels, the pitch of screws, and similar articles, Apparatus for checking the profiles of. G. Massiot. 1,687,946; Oct. 16.
Gearing, Variable-speed. J. P. Johnson. 1,687,567; Oct. 16.
Generator: *See*—
Infra-red-ray generator. Steam generator.
Generator and modulator, Oscillation. H. W. Nichols. 1,687,882; Oct. 16.
Glass-beveling machine. B. E. Beyer. 1,688,068; Oct. 16.
Grinding device, Gear-. G. M. Eaton. 1,687,661; Oct. 16.
Grinding machine, Glass-. S. P. Mermer. 1,687,985; Oct. 16.
Grinding machines, Work rest and ejecting device for. W. D. Archea. 1,688,103; Oct. 16.
Guitâra and similar instruments, Playing device for. T. Schmidt. 1,687,849; Oct. 16.
Hair-waving apparatus. F. Coune. 1,687,659; Oct. 16.
Hame tug. J. Dwyer. 1,688,072; Oct. 16.
Hammer, Magazine. J. B. Crofoot. 1,688,037; Oct. 16.
Handkerchief or the like. M. Bridgman. Des. 76,603–5; Oct. 16.
Handle: *See*—
Agricultural handle.
Handle construction. J. G. Le Pere. 1,687,619; Oct. 16.
Handle for cans. W. Tehel. 1,688,165; Oct. 16.
Handle mounting for brushes. O. W. Starks. 1,687,953; Oct. 16.
Handling bituminous materials, Method and apparatus for. J. G. Grøndal. 1,687,760; Oct. 16.
Handling cane juice. E. E. Hartmann. 1,688,184; Oct. 16.

Hanger: *See*—
Door hanger.
Harmonics, Suppressing. J. A. O'Neil. 1,687,585; Oct. 16.
Harrow, Tandem disk. H. S. Dickinson. 1,688,025; Oct. 16.
Harvester with corn-shelling device, Ensilage. I. B. Rosboit. 1,688,206; Oct. 16.
Harvesting machine, Cotton-. O. Onsrud. 1,688,312; Oct. 16.
Hat and coat rack, Collapsible. J. Hernackl. 1,687,613; Oct. 16.
Headgear, Adjustable. A. Greenstein. 1,688,013; Oct. 16.
Heading machine. E. O'Toole. 1,687,949; Oct. 16.
Headlight, Dirigible. J. Helstrom. 1,688,275; Oct. 16.
Heat interchanger. O. E. Frank. 1,668,183; Oct. 16.
Heat-treating method. W. J. Brown. 1,687,656; Oct. 16.
Heater: *See*—
Down-draft heater. Electrical heater.
Electric heater. Hot-water heater.
Heater and the like, Air. M. Levron. 1,688,147; Oct. 16.
Heater connection. W. E. Edgett. 1,687,931; Oct. 16.
Heater fan, Electric. J. E. Marsden. 1,688,052; Oct. 16.
Heater for sawdust or coal dust. A. O. Brunette. 1,687,539; Oct. 16.
Heating boiler, Sectional. H. H. Peek. 1,687,784; Oct. 16.
Heating furnace, Electric air-. W. Doherty. 1,688,270; Oct. 16.
Heating system for cars, Electric. B. O. Austin. 1,687,652; Oct. 16.
Heating system, Oil-burning. W. B. Eddison. 1,687,540; Oct. 16.
Heating unit for electric heaters. F. Yokel. Des. 76,654; Oct. 16.
Heating vessel, Electric. L. Reichold. 1,688,286; Oct. 16.
Heel blanks with washers and tool for use in same, Loading rubber. V. R. Lawson. 1,687,674; Oct. 16.
Heel, Rubber. J. Celenko. 1,688,116; Oct. 16.
Heel, Rubber. J. Nugent. 1,687,684; Oct. 16.
Heels, Trimming unattached. L. S. Macdonald. 1,687,576; Oct. 16.
Hinge for casement windows. R. W. Hope. 1,688,235; Oct. 16.
Hobber with quickly-demountable arbor support. W. F. Zimmermann. 1,687,921; Oct. 16.
Hockey-stick-end buffer. W. E. Root. 1,687,736; Oct. 16.
Hoe, Weeding. G. H. Miller. 1,687,986; Oct. 16.
Hoisting and weighing means. H. F. Ruggles. 1,687,894; Oct. 16.
Hoisting apparatus. H. R. Smith and P. D. Case. 1,688,061; Oct. 16.
Hoisting apparatus. C. Zetterlund. 1,688,170; Oct. 16.
Holder, Adjustable lamp. A. R. Martin. 1,688,148; Oct. 16.
Holder, Carbide-lamp. C. Henneck. 1,688,234; Oct. 16.
Holder, Dental tool. H. E. S. Chayes and A. P. Jurgensen. 1,688,136; Oct. 16.
Holder for ledger sheets. J. C. Carpenter. 1,688,264; Oct. 16.
Holder, Material. S. McMullan. 1,687,579; Oct. 16.
Holder, Mop. W. Hertzberg. 1,687,769; Oct. 16.
Holder, Roll. J. R. Worthington. 1,687,819; Oct. 16.
Holder, Spool. G. D. Hawley. 1,688,273; Oct. 16.
Holder, Spoon. G. T. Ritter. 1,687,795; Oct. 16.
Holder, Tool. R. Milecz. 1,688,284; Oct. 16.
Holding device. J. Engl. 1,688,008; Oct. 16.
Hollow articles, Making. G. D. Welty. 1,688,300; Oct. 16.
Hook: *See*—
Double-swivel hook. Swing hook.
Hopper, Batch. C. S. Johnson. 1,687,499; Oct. 16.
Horse-drawn rake. C. C. Andersen. 1,688,222; Oct. 16.
Horseshoe. A. Trakalo. 1,688,251; Oct. 16.
Hot-air furnace. A. L. Kices, B. Greenfield, and G. B. Ackermann. 1,687,983; Oct. 16.
Hot-air register. P. E. Diederich. 1,687,645; Oct. 16.
Hot-water heater, Electric. B. Berger. 1,688,108; Oct. 16.
Hydrocarbon motor. L. M. Woolson. 1,687,918; Oct. 16.
Hydrocarbons, Constructive conversion of heavy to light. W. E. Shore. 1,687,595; Oct. 16.
Hydrocarbons from low-boiling hydrocarbons and hydrocarbon gases, Production of higher-boiling-point. A. S. Ramage. 1,687,890; Oct. 16.
Identification device. F. E. Ackerman. 1,688,101; Oct. 16.
Ignition device. C. B. Dicksee. 1,688,005; Oct. 16.
Impregnating metal layers. N. Meurer. 1,688,127; Oct. 16.
Indicating variation in flow of liquids, Device for. W. L. Marden. 1,687,627; Oct. 16.
Indicator facings to indicator bodies, Securing. P. E. Pulverman. 1,687,889; Oct. 16.
Indicator for vehicles, Direction. S. W. Mayhew. 1,688,086; Oct. 16.
Induction regulator. M. Gelman and F. Urschler, sr. 1,687,648; Oct. 16.
Infra-red-ray generator. H. P. MacLagan. 1,688,124; Oct. 16.
Inking attachment. W. MacDonald. 1,688,281; Oct. 16.
Inscribing instrument. C. A. Garvey. 1,687,647; Oct. 16.
Instrument panel. J. R. Padesky. 1,687,885; Oct. 16.
Insulated conductor. E. B. Wheeler. 1,687,912; Oct. 16.
Insulation and producing the same, Flameproof electric. E. G. Sturdevant. 1,687,525; Oct. 16.
Insulator. C. S. Gordan and J. T. Lowe. 1,687,495; Oct. 16.
Insulator. M. F. H. Gouverneur. 1,688,011; Oct. 16.
Insulator. K. A. Hawley. 1,688,015; Oct. 16.
Insulator-knurling device. M. F. H. Gouverneur. 1,687,759; Oct. 16.
Insulators, pins, and cross arms, Reduction of losses in. H. A. Affel and E. I. Green. 1,687,535; Oct. 16.
Internal-combustion engine. J. E. De Baun. 1,687,547; Oct. 16.
Internal-combustion engine. J. Haltenberger. 1,688,294; Oct. 16.
Internal-combustion engine. F. Lang. 1,687,673; Oct. 16.
Internal-combustion engine. A. Moorhouse. 1,687,878; Oct. 16.
Internal-combustion engine. F. K. Tarrant. 1,688,164; Oct. 16.
Internal-combustion engine. J. G. Vincent. 1,687,911; Oct. 16.
Internal-combustion engine. W. Wheeler. 1,688,218; Oct. 16.
Internal-combustion engine. L. M. Woolson. 1,687,917; Oct. 16.
Internal-combustion engine, Rotary. A. L. Powell. 1,687,511; Oct. 16.
Iron: *See*—
Pick-up iron.
Iron rods, Device for bending. A. Wagenbach. 1,688,099; Oct. 16.
Ironing board. J. N. Faris. 1,687,754; Oct. 16.
Ironing board, Folding. S. F. Slawski. 1,688,280; Oct. 16.
Ironing-machine table. M. Hedgion. 1,687,766; Oct. 16.
Isoamyl ester of the di-iodide of behenolic acid and producing same. A. Wingler. 1,688,100; Oct. 16.
Jack: *See*—
Lifting jack. Vehicle jack.
Joint: *See*—
Drill joint. Pipe joint.
Joist, Hollow metal. B. J. Klaasen. 1,688,016; Oct. 16.
Kettle-shaped hollow bodies, Manufacturing. K. Böhle. 1,688,111; Oct. 16.
Key case. W. H. Weissbrod. 1,688,215; Oct. 16.
Knitting machine, Flat-. C. F. Kaufmann. 1,687,866; Oct. 16.
Knob and knoblike device. F. E. Verse. 1,687,531; Oct. 16.
Label blank. W. E. Long. Des. 76,621; Oct. 16.
Labeling canned and bottled goods. W. C. Hart. 1,688,077; Oct. 16.
Lamp. A. von Frankenberg. Des. 76,612; Oct. 16.
Lamp bulb, Electric-. M. Pipkin. 1,687,510; Oct. 16.
Lamp, Floor. H. T. Scheidnacker. Des. 76,638; Oct. 16.
Lamp, Incandescent. E. Henkel and H. Wolff. 1,687,496; Oct. 16.
Lamp, Motor-vehicle. A. Moorhouse. 1,687,877; Oct. 16.
Lamp shade. C. Apelt. Des. 76,594; Oct. 16.
Lamp shade. P. B. Moore. 1,687,733; Oct. 16.
Lamp stand. G. Shrosbree. Des. 76,642; Oct. 16.
Last. C. E. Lurcott. 1,687,623; Oct. 16.
Last. P. C. Wolfer. 1,688,065; Oct. 16.
Lasting machine. V. H. Bodle and F. C. Francisco. 1,687,824; Oct. 16.
Latch. B. Giragosian. 1,687,650; Oct. 16.
Latch and dogging means therefor. H. Broomhall. 1,687,926; Oct. 16.
Latch, Dead-locking. H. W. Kelgwin. 1,688,240; Oct. 16.
Latch for automobiles, Door. E. N. Jacobi. 1,687,497; Oct. 16.
Latch switch. S. F. Briggs and E. N. Jacobi. 1,687,490; Oct. 16.
Lathe center. W. H. Flinn. 1,688,040; Oct. 16.
Lens for vehicle lamps. W. D'A. Ryan. Des. 76,636; Oct. 16.
Lens mount. A. Wollensak. 1,687,818; Oct. 16.
Lifter: *See*—
Box lifter. Valve lifter.
Lifting jack, Vehicle. C. O. Ryberg. 1,688,155; Oct. 16.
Light: *See*—
Dirigible light. Signal light.
Light for motor vehicles and the like, Dirigible. L. M. Walden. 1,688,214; Oct. 16.
Light switch guard, Flash-. C. E. Duisenberg. 1,688,006; Oct. 16.
Lighting fixture. H. J. Gruber. Des. 76,613; Oct. 16.
Lighting fixture. J. L. Jaffe and F. Wening. 1,688,120; Oct. 16.
Lighting-fixture plate. L. R. Wellman. Des. 76,649; Oct. 16.
Line-tapper-operating device. E. B. Normington. 1,687,584; Oct. 16.
Liquid-fuel burner. J. O. Post. 1,687,888; Oct. 16.
Liquid-fuel-feed system. J. P. Remington. 1,687,793; Oct. 16.
Liquid-level gauge. A. Novick. 1,687,506; Oct. 16.
Liquid-supply tank. W. S. Locke. 1,688,279; Oct. 16.
Loading machine tools, Method of and apparatus for. H. E. Kempton and K. F. Gallimore. 1,687,981; Oct. 16.
Lock: *See*—
Automobile lock. Chest lock.
Brake lock. Door lock.
Caster lock.
Lock for bicycles, Theft-preventing rocking. E. Soullière. 1,687,697; Oct. 16.
Lock for cans, Screw friction. E. M. Pletcher. 1,687,887; Oct. 16.

Lock for gasoline tanks, Outlet. R. G. Westbrook and S. A. Brown. 1,687,814; Oct. 16.
Locking cap for fuel tanks. J. E. Whitley. 1,687,601; Oct. 16.
Locking carrier for disk wheels. A. M. Baver. 1,687,966; Oct. 16.
Loom, Weft-replenishing. S. S. Jackson. 1,688,309; Oct. 16.
Looms for weaving, Picking motion for. A. Cass. 1,687,857; Oct. 16.
Looms for weaving, Shedding mechanism for. J. H. and T. Hindle. 1,687,865; Oct. 16.
Lubricant compressor. E. Piquerez. 1,687,789; Oct. 16.
Lubricant-expelling apparatus. H. J. Murphy. 1,687,779; Oct. 16.
Lubricating apparatus. P. G. Graham. 1,688,075; Oct. 16.
Lubricating system for gyroscopes and other apparatus. C. M. Paxton. 1,687,632; Oct. 16.
Lubricating systems, Method and control device for. F. E. Buxton. 1,687,827; Oct. 16.
Lubrication of sleeve-principle engines. R. B. Fisher. 1,687,494; Oct. 16.
Lubricator for chains, Mechanical. D. B. Perry. 1,687,688; Oct. 16.
Machine for applying adhesive strips to soles. C. Hunt. 1,687,565; Oct. 16.
Machine for dispensing oil. R. V. Jones. 1,687,838; Oct. 16.
Machine for finishing floors. E. F. Wendig. 1,687,998; Oct. 16.
Machine for fixing clasps. P. Switzeny. 1,687,906; Oct. 16.
Machine for forming glass vials. R. H. Koenig. 1,688,190; Oct. 16.
Machine for grinding fluted tools. B. M. W. Hanson. 1,687,725; Oct. 16.
Machine for incorporating stiffeners in boots and shoes. F. Ricks. 1,687,514; Oct. 16.
Machine for piling sheets, plates, and the like. J. D. Williams. 1,688,219; Oct. 16.
Machine for producing flexible roofing elements. O. D. McFarland. 1,687,873; Oct. 16.
Machine for rounding gear wheels. J. L. Limeres. 1,688,243; Oct. 16.
Manhole cover, Locking. C. S. Brown. 1,687,969; Oct. 16.
Manhole safety cage. J. Goff. 1,688,074; Oct. 16.
Manifold forms, Making continuous. R. C. Stevenson. 1,687,905; Oct. 16.
Manifolding machine. J. Q. Sherman. 1,688,157; Oct. 16.
Mantel clamp. J. S. Ornes and L. V. Lavell. Des. 76,632; Oct. 16.
Marking machine. F. A. Putnam. 1,687,635; Oct. 16.
Massage implement. D. Berger. 1,688,226; Oct. 16.
Mastic, Bituminous. C. N. Forrest, J. S. Miller, jr., and C. S. Babb. 1,688,041; Oct. 16.
Measuring and feeding plastic substances, Apparatus for. W. E. Prescott. 1,687,694; Oct. 16.
Measuring device. T. Hoseth. 1,688,080; Oct. 16.
Measuring device, Electrical area-. D. E. Harding. W. E. Prescott. 1,687,694; Oct. 16.
Measuring system, Electric. K. Lubowsky. 1,687,575; Oct. 16.
Medical compound, Agar. G. C. Miller, J. F. Kurka, and L. B. Chase. 1,688,053; Oct. 16.
Message receiving and delivering device, Prepayment. R. Buchner. 1,688,114; Oct. 16.
Metal-bending machine. J. J. Mullen and F. M. Stambaugh. 1,687,988; Oct. 16.
Metallic value recoverer. F. F. Berry. 1,688,109; Oct. 16.
Metallurgical furnace. A. J. Briggs. 1,687,925; Oct. 16.
Meter: *See*—
Vibration meter.
Metering system, Electrical. R. T. Pierce. 1,687,692; Oct. 16.
Microcoupler. F. P. Hall. 1,687,762; Oct. 16.
Microphone circuit. C. R. Hannn. 1,687,665; Oct. 16.
Mirror for automobiles, Rear-view. W. Hodny. 1,687,572; Oct. 16.
Mirror or similar article, Hand. F. H. La Pierre. Des. 76,619; Oct. 16.
Mixer: *See*—
Bread mixer. Dental amalgam mixer.
Mixer for road materials. F. H. Cummer. 1,687,660; Oct. 16.
Moistening device, Tape-. J. C. Schneble. 1,687,594; Oct. 16.
Molding apparatus. J. M. and H. D. Phillips. 1,688,205; Oct. 16.
Molding device. H. P. Sachse. 1,687,797; Oct. 16.
Molding rubber draining boards for sinks. J. P. Harkin. 1,688,232; Oct. 16.
Mosquito bar (or net) carrier. L. de Sena y Freixas. 1,687,862; Oct. 16.
Motor: *See*—
Current motor. Pump motor.
Hydrocarbon motor. Wave motor.
Mud grip. J. J. Weier. 1,687,701; Oct. 16.
Nail set. O. Olsen. 1,688,130; Oct. 16.
Nest structure. C. M. Shilliam. 1,687,901; Oct. 16.
Odorizer for electric fans, Air. M. A. Clevenger. 1,687,830; Oct. 16.
Oil burner. C. M. Clefton. 1,687,606; Oct. 16.
Oil burner, Vacuum. W. E. Johnston. 1,687,771; Oct. 16.
Oil can, Self-draining. S. E. Nord. 1,687,583; Oct. 16.
Oiling mechanism for band-wheel power. A. H. Loucks. 1,687,622; Oct. 16.
Ophthalmic mounting. F. A. Stevens. 1,687,954; Oct. 16.
Ophthalmic mountings, Making. J. W. Welsh. 1,687,960; Oct. 16.
Ordnance control. A. L. R. Ellis and C. W. Greene. 1,687,551; Oct. 16.
Ornament for automobile radiator cap or similar article. O. C. Ritz Woller. Des. 76,635; Oct. 16.
Ornamental inlaid work. O. S. Marckworth. 1,687,578; Oct. 16.
Ornamenting floor coverings, Continuous process of. C. O. Karpf. 1,688,239; Oct. 16.
Oven, Regenerative channel. H. Koppers. 1,687,774; Oct. 16.
Oven, Revolving-ring. L. Honigmann and F. Bartling. 1,687,563; Oct. 16.
Package and dispenser for gummed tape. T. H. Mittendorf. 1,687,731; Oct. 16.
Padlock. A. Del Rosso. 1,688,208; Oct. 16.
Padlock. A. C. Jackson and W. Kroll. 1,688,187; Oct. 16.
Panel, Switch. W. E. Hawley. 1,688,078; Oct. 16.
Paper cup. R. P. Dickerson. 1,687,716; Oct. 16.
Paper making. H. G. Cram. 1,688,267; Oct. 16.
Paper-making machine. R. E. Read. 1,687,847; Oct. 16.
Parachute. F. R. Owens. 1,687,884; Oct. 16.
Pen, Fountain. C. W. Horn. 1,688,236; Oct. 16.
Pen, Fountain. G. T. Swasey. 1,687,807; Oct. 16.
Penknife. F. Walwat. 1,687,958; Oct. 16.
Perambulator and the like. F. H. Headley. 1,687,726; Oct. 16.
Perforator, Bottle-nipple. E. A. Young. 1,688,258; Oct. 16.
Phosphate and its manufacture, Saline tri-sodium. C. F. Booth, A. B. Gerber, and P. Logue. 1,688,112; Oct. 16.
Photo copying apparatus. W. Sack. 1,688,059; Oct. 16.
Photographic-film strips, Edge-fog preventive for. G. Lowkrantz. 1,688,050; Oct. 16.
Pianos, Mechanical construction of. G. Lyon. 1,687,984; Oct. 16.
Pickling machine. C. G. Miller and C. F. Cleveland. 1,687,844; Oct. 16.
Pick-up iron. E. J. Shaffer. 1,687,520; Oct. 16.
Picture-displaying apparatus. E. Didcote. 1,687,709; Oct. 16.
Pipe: *See*—
Welded pipe.
Pipe connecter, Automatic train-. E. A. Robinson. 1,687,893; Oct. 16.
Pipe coupling, Automatic train-. J. Robinson. 1,688,287; Oct. 16.
Pipe joint, Flexible. E. A. Russell. 1,687,796; Oct. 16.
Pipe vise and bender. A. H. Meier. 1,688,199; Oct. 16.
Piston. G. W. Grayson. 1,688,076; Oct. 16.
Piston. G. B. Tibbot and F. R. Cook. 1,687,908; Oct. 16.
Piston for internal-combustion motors. A. C. Hoecker. 1,687,837; Oct. 16.
Pitcher. O. Bergner. Des. 76,597; Oct. 16.
Plank, Artificial. W. H. Droege. 1,688,138; Oct. 16.
Plank, Reenforced scaffold. M. Bauer. 1,687,706; Oct. 16.
Plant working with induction motor fed from synchronous phase converter. K. von Kandó. 1,687,700; Oct. 16.
Plastic dispiny. M. Masson. 1,688,196; Oct. 16.
Plastic material, Forming ways or ducts in. T. E. Murray. 1,687,879; Oct. 16.
Plate mill and rolling hot metal. J. B. Tytus. 1,688,252; Oct. 16.
Plow and planter, Lister. T. Brown. 1,688,034; Oct. 16.
Plow for cane harvesters and the like, Separator. F. C. D. Wilkes and F. K. Flynn. 1,688,137; Oct. 16.
Plug for valve lubrication, Porous metal. F. Neale. 1,687,780; Oct. 16.
Plug wrench, Washout. A. W. Judge. 1,687,727; Oct. 16.
Pole, Illuminated barber. J. L. Michalski. 1,688,017; Oct. 16.
Polishing plates of glass, marble, or other material, Apparatus for. F. Waldron. 1,687,959; Oct. 16.
Power plant utilizing caustic soda or other auxiliary fluid, Steam and other vapor. E. Koenemann. 1,687,941; Oct. 16.
Power-operated portable loader. G. Manierre. 1,687,841; Oct. 16.
Power press. J. C. Ledbetter. 1,688,049; Oct. 16.
Power press. B. J. Yanchenko. 1,688,066; Oct. 16.
Power transmission. J. Werz. 1,688,167; Oct. 16.
Power transmission device, Differential-. J. W. Lyons. 1,688,194; Oct. 16.
Press: *See*—
Denture press. Power press.
Press. H. Bernier. 1,688,227; Oct. 16.
Press. A. Bredenberg. 1,687,968; Oct. 16.
Press. B. Rollman. 1,687,516; Oct. 16.
Press for molding granular powders. R. L. Seabury. 1,687,995; Oct. 16.
Pressing implement. L. Hoffman. 1,687,562; Oct. 16.
Pressing machine and work conveyer, Combined laundry. P. N. Braun. 1,687,967; Oct. 16.
Price gauge. C. W. Waller. 1,688,254; Oct. 16.
Price rack. O. H. Hershman. Des. 76,614; Oct. 16.
Printing block or cylinder. C. Jack. 1,687,498; Oct. 16.
Propeller, Aeronautical. S. A. Reed. 1,687,636; Oct. 16.
Protective device. A. M. Curtis. 1,688,038; Oct. 16.
Pudding cloth and the like. L. G. Rogers. 1,688,288; Oct. 16.
Puller: *See*—
Weed puller.
Pulley covering. A. Schwieren. 1,687,798; Oct. 16.
Pump and oil-injection system for internal-combustion engines, Fuel. P. L. Scott. 1,687,518; Oct. 16.

Pump control. A. C. Attendu. 1,687,604; Oct. 16.
Pump for power-propelled vehicle controlling means, Fluid-pressure. E. G. Staude. 1,687,523; Oct. 16.
Pump motor, Sleeved. D. J. Conant. 1,687,658; Oct. 16
Pump, Tank. A. Joncha. 1,688,237; Oct. 16.
Pumping equipment. J. Penrod and R. D. Thompson. 1,688,089; Oct. 16.
Punch, Paper. A. Glaeser. 1,687,758; Oct. 16.
Rack: *See*—
Display rack. Shoe rack.
Radiocabinet. J. Wolff. Des. 76,652–3; Oct. 16.
Radiocircuits. R. A. Clarke. 1,688,265; Oct. 16.
Radiocommunication. E. M. Rave. 1,687,792; Oct. 16.
Radio receiving system. E. W. Kellogg. 1,687,570; Oct. 16.
Radio transmitting system. F. M. Ryan. 1,687,896; Oct. 16.
Radiotube. C. Schickerling. 1,687,897; Oct. 16.
Railway tie, Metal. D. O. Snyder. 1,688,248; Oct. 16.
Rake: *See*—
Horse-drawn rake.
Ram for stokers, Auxiliary. D. C. Hess. 1,687,614; Oct. 16.
Razor, Safety. R. M. Valabrègue. 1,687,910; Oct. 16.
Receptacle for face powder and the like. P. C. P. Booty 1,687,748; Oct. 16.
Reciprocating engine. F. M. Webb. 1,687,744; Oct. 16.
Recording apparatus for relays. E. Gasiorowski. 1,687,555; Oct. 16.
Rectifier system. E. Kern. 1,688,189; Oct. 16.
Rectifier tube. C. Schickerling. 1,687,898; Oct. 16.
Reel: *See*—
Fishing reel.
Refining of hydrocarbon oils. E. B. Phillips and J. G. Stafford. 1,687,992; Oct. 16.
Refrigerating unit. G. B. Scarlett. 1,688,023; Oct. 16.
Refrigeration. B. C. von Platen and C .G. Munters. 1,687,957; Oct. 16.
Refuse receiving and handling apparatus. S. E. Finch. 1,688,271; Oct. 16.
Register: *See*—
Call register. Hot-air register.
Regulator: *See*—
Induction regulator.
Regulator system. J. H. Ashbaugh. 1,687,855; Oct. 16.
Regulator system. S. A. Staege. 1,687,640; Oct. 16.
Relay. P. MacGahan. 1,687,624; Oct. 16.
Removing large-sized particles and aggregates from certain finely-divided powders and the like, Apparatus for. G. Gaille and B. D. Forritt. 1,688,307; Oct. 16.
Resistor and making the same. G. M. Little. 1,687,677; Oct. 16.
Resurfacing worn or pitted surfaces. Method and apparatus for. A. O. Van Derwort. 1,688,212; Oct. 16.
Retort for the distillation of coal and similar carbonaceous substances. C. H. Parker. 1,687,989; Oct. 16.
Rheostat. J. F. Martin. 1,687,628; Oct. 16.
Rim for automobiles, trucks, and the like, Traction. R. Ludowici. 1,688,051; Oct. 16.
Rim structure, Demountable-. F. R. Klaus. 1,688,146; Oct. 16.
Ring: *See*—
Fire-box foundation ring.
Road grader. B. H. Mansker. 1,687,626; Oct. 16.
Rock drill, Percussive. E. Penberthy. 1,687,687; Oct. 16.
Rod: *See*—
Connecting rod.
Rod grip, Polish-. W. B. McMurtrie and W. B. Gover. 1,687,777; Oct. 16.
Roll agitator, Antichoke. M. A. Winstead, J. D. Reid, and W. C. Moody. 1,687,964; Oct. 16.
Rotary cutter. L. E. Parent. 1,688,296–8; Oct. 16.
Rotor. H. G. Reist. 1,687,512–13; Oct. 16.
Rubber, Vulcanization of. C. J. T. Cronshaw and W. J. S. Naunton. 1,687,861; Oct. 16.
Rudder-bar retainer. R. E. Mitton. 1,687,732; Oct. 16.
Sack, Cotton-picker's. C. E. Manner. 1,687,577; Oct. 16.
Safety device for hot-air furnaces. J. M. Larson. 1,688,121; Oct. 16.
Safety device, Oil-burner. H. F. Tapp and H. D. Dix. 1,688,163; Oct. 16.
Safety switch. A. E. Griswold. 1,687,835; Oct. 16.
Sales table, Adjustable mechandise. W. J. Darby. 1,688,003; Oct. 16.
Sausage-linking machine. H. E. Pfeiffer. 1,687,691; Oct. 16.
Saw-brazing clamp. J. E. Ricker, C. A. Person, and E. P. and H. W. Armstrong. 1,687,696; Oct. 16.
Saw for plaster casts, Surgeon's safety. J. W. Kahlen. 1,687,773. Oct. 16.
Saw guard. P. E. Hussey. 1,687,670; Oct. 16.
Scoop, Ice-cream. E. W. Werner. 1,687,813; Oct. 16.
Screw driver. C. F. Fink. 1,688,181; Oct. 16.
Screw driver. A. S. Pinkus. 1,687,788; Oct. 16.
Screw machines and the like, Mechanism for operating. G. J. Mayer. 1,688,197; Oct. 16.
Sealing shipping cases. H. R. Bliss. 1,687,747; Oct. 16.
Seaming machine. P. H. Lange. 1,687,943; Oct. 16.
Seat: *See*—
Automobile seat. Auxiliary seat.
Seed dropper. R. V. Barry. 1,688,067; Oct. 16.
Seed, Removable emanation. J. Muir. 1,688,245; Oct. 16.
Separator. P. Amet. 1,687,603; Oct. 16.
Sewing machine, Shoe-. J. H. Reed. 1,688,056; Oct. 16.
Sewing machines, Thread-measuring mechanism for. J. H. Reed. 1,688,057; Oct. 16.
Shackle, Vehicle spring. T. F. Ferry. 1,688,180; Oct. 16.
Shade. E. R. Kimball. 1,687,982; Oct. 16.
Shade and curtain bracket. E. M. Bailey. 1,688,223; Oct. 16.
Sheave support. P. K. Reed. 1,687,892; Oct. 16.
Shelving construction. W. E. June. 1,687,671; Oct. 16.
Shock absorber. H. H. Logan. 1,687,620; Oct. 16.
Shock absorber. C. W. Thompson. 1,687,527; Oct. 16
Shoe. J. E. Williams. 1,687,915; Oct. 16.
Shoe and making, Stitchdown. P. W. Valentine. 1,687,529; Oct. 16.
Shoe and method of shoemaking. P. W. Valentine. 1,687,528; Oct. 16.
Shoe brake, Expanding. G. Fornaca. 1,687,608; Oct. 16.
Shoe rack. W. E. Coombes. 1,687,930; Oct. 16.
Shoe-tree. F. Harroid. 1,687,558; Oct. 16.
Shoulder strap. A. Rothstein. 1,687,592; Oct. 16.
Shuttle. J. Northrop. 1,688,204; Oct. 16.
Side frame. W. F. Richards. 1,687,735; Oct. 16.
Sign and mounting the same. C. S. Willey. 1,687,602; Oct. 16.
Sign and mounting the same, Display. R. G. Fishel. 1,688,139; Oct. 16.
Signboard, Outdoor. W. M. James. Des. 76,616; Oct. 16.
Signal box. S. A. Xippas. Des. 76,655; Oct. 16.
Signal-element construction. J. B. West. 1,687,961; Oct. 16.
Signal for pneumatic tires, Warning. W. F. Hahn. 1,687,761; Oct. 16.
Signal head, Reflector. V. L. Oestnaes. 1,688,018; Oct. 16.
Signal light, Hand. H. G. Essman. 1,688,179; Oct. 16.
Signal standard. H. C. Pfaff. Des. 76,633; Oct. 16.
Signaling, Railway. G. W. Baughman. 1,688,173; Oct. 16.
Signaling, Secret. J. F. Farrington. 1,687,932; Oct. 16.
Signaling system, Electrical. J. F. Farrington. 1,687,933; Oct. 16.
Silica gel, Making. M. Yablick. 1,687,919; Oct. 16.
Skate, Roller. W. A. Slusher. 1,687,739; Oct. 16.
Slicing machine. P. J. Lucey. 1,687,729; Oct. 16.
Slicing machine. J. C. Trouvalls. 1,687,809; Oct. 16.
Slitting machine. A. E. Collins. 1,687,607; Oct. 16.
Slotting machines, Attachment for paper-. E. G. Staude. 1,687,522; Oct. 16.
Snow plow. S. B. Gillis. 1,688,009; Oct. 16.
Socket, Electric-lamp. E. E. Falbe and Q. Rohrer. 1,687,718; Oct. 16.
Socket unit, Two-way-. W. Ile. 1,687,569; Oct. 16.
Sound-amplifying horn for gramophones, loud speakers, and other like sound-reproducing apparatus. H. J. Cullum. 1,687,714; Oct. 16.
Sound-control construction. L. Hunt. 1,687,566; Oct. 16.
Sound transmitting and receiving apparatus. A. M. Kennedy. 1,687,940; Oct. 16.
Spar splice. F. Trainor. 1,688,063; Oct. 16.
Speed-changing mechanism. F. P. Glosh. 1,687,721; Oct. 16.
Spoke and making it, Tubular. H. P. Arnt and E. J. Arnold. 1,687,487; Oct. 16.
Sponging and shrinking machine, Tape. J. Saltzman and F. H. Lange. 1,687,639; Oct. 16.
Spotlamp with extension cord, Demountable. E. G. K. Anderson. 1,687,651; Oct. 16.
Spotlight. G. W. Aldeen. 1,687,821; Oct. 16.
Spraying device. W. J. Clements. 1,687,545; Oct. 16.
Stacking brace. E. W. Systrom and J. F. Warren. 1,687,907; Oct. 16.
Stair, ladder, and the like. W. W. Smith, V. B. Trevellyan, and N. J. Jewett. 1,688,210; Oct. 16.
Stair nosing. H. A. Welcome. 1,687,600; Oct. 16.
Stand: *See*—
Display stand.
Stapling machine or tacker. A. H. Maynard. 1,687,871; Oct. 16.
Steam generator. B. P. Cooper. 1,687,832; Oct. 16.
Steam generator. A. M. Hubbard. 1,687,615; Oct. 16.
Steam generator. R. M. Jones. 1,687,568; Oct. 16.
Steering mechanism. S. R. W. M. Bager. 1,687,653; Oct. 16.
Steering mechanism, Hydraulic. F. Garner. 1,687,720; Oct. 16.
Steering wheel for automobiles. F. Oughton. 1,687,783; Oct. 16.
Sterilizer. M. W. Heilman. 1,688,144; Oct. 16.
Storage-cell connecter. T. S. Cole. 1,688,002; Oct. 16.
Store front. J. B. Berland. Des. 76,598; Oct 16.
Stove. H. B. De Can. 1,687,972; Oct. 16.
Stove, Cook. G. E. Pickup. 1,688,019; Oct. 16.
Stove, Cooking. G. E. Pickup. 1,687,993; Oct. 16.
Stovepipe blank, Interlocking. E. O. Simpson. 1,687,738; Oct. 16.
Straightening rugs. J. S. Nakashian. 1,688,088; Oct. 16.
Strap: *See*—
Shoulder strap.
Strip stock, Apparatus for making multiply. H. W. Bundy. 1,687,605; Oct. 16.
Stuffing material. H. O. Lange. 1,687,867; Oct. 16.
Styrol from chlor ethyl benzol, Production of. O. H. Smith. 1,687,903; Oct. 16.
Support for removable seat covers. H. C. Burkhard. 1,687,826; Oct. 16.
Surgical appliance. K. Epstein. 1,687,717; Oct. 16.
Surgical headlight. M. Bornkessel. 1,688,113; Oct. 16.
Suspension clip. J. H. Murphy. 1,687,581; Oct. 16.

Suspension device for maps, etc. J. W. Fontaine. 1,687,859; Oct. 16.
Sweeper and vacuum cleaner, Combined carpet. W. E. Sherbondy. 1,688,156; Oct. 16.
Swing, Aeroplane. H. J. Ferris. Des. 76,611; Oct. 16.
Swing hook, Self-oiling. A. Speidel. 1,687,698; Oct. 16.
Switch: *See*—
Electric switch. Safety switch.
Latch switch.
Switch device. E. W. Powell. 1,687,994; Oct. 16.
Syringe, Collapsible ampul. E. H. Marcy. 1,687,502; Oct. 16.
Table: *See*—
Ironing-machine table. Sales table.
Table for ironing machines, Folding. M. Hedglon. 1,687,767; Oct. 16.
Table for radio receiving sets or the like. F. Schwartz. Des. 76,640–1; Oct. 16.
Table or similar article. J. J. Heyman. Des. 76,615; Oct. 16.
Tank: *See*—
Fluid-pressure tank. Liquid-supply tank.
Tap. J. R. Saylor. 1,688,209; Oct. 16.
Telephone attachment. Z. E. Jones. 1,688,276; Oct. 16.
Telephone mouthpiece, Sanitary. S. Friedlander and T. Geismar. 1,687,553; Oct. 16.
Telephone system. R. Mercer and F. Tench. 1,688,150; Oct. 16.
Telephone system. R. F. Stehlik. 1,688,160–2; Oct. 16.
Temperature-compensating device. P. Paschen. 1,687,686; Oct. 16.
Temperature controller. E. Theander. 1,688,291; Oct. 16.
Tennis and like racket. G. and J. Robinson. 1,687,848; Oct. 16.
Tensioning mechanism for presses, Gripper-. F. S. English and T. L. Perry. 1,687,753; Oct. 16.
Tent, Poleless. L. B., N., W., and J. M. Goldberg. 1,687,722; Oct. 16.
Terminal connecter. G. W. Fitzgerald. 1,688,182; Oct. 16.
Testing or demonstrating apparatus. B. Haynes. 1,688,274; Oct. 16.
Textile fabric. L. Biva. Des. 76,599–600; Oct. 16.
Textile fabric. J. H. Bunting. Des. 76,607; Oct. 16.
Textile fabric. W. H. Spowers. Des. 76,645; Oct. 16.
Textile fabric. G. J. Virgile. Des. 76,648; Oct. 16.
Theft-preventing device. J. F. Raleigh. 1,687,734; Oct. 16.
Thermostat. L. J. Greenawalt. 1,687,664; Oct. 16.
Thread-cleaner bracket. P. Daugert, H. Frey, and J. J. Dunleavy. 1,687 546; Oct. 16.
Threaded connecting member. E. L. Delany and R. P. Charles. 1,688,269; Oct. 16.
Tie: *See*—
Bale tie. Railway tie.
Tightening and gripping device for string employed in the tying of parcels. H. J. Buchanan-Wollaston. 1,687,856; Oct. 16.
Tire. J. H. Kohsiek. Des. 76,617; Oct. 16.
Tire building. M. A. Marquette. 1,687,945; Oct. 16.
Tire carrier, Automobile. D. Borror. 1,687,749; Oct. 16.
Tires, Protecting guard for. H. P. Thompson. 1,688,250; Oct. 16.
Toaster. D. L. Chandler. 1,687,712; Oct. 16.
Toaster, Sandwich. C. J. Fay. 1,687,662; Oct. 16.
Toilet preparation. J. S. Berliner. 1,687,643; Oct. 16.
Toilet preparation. K. M. Mackenzie. 1,687,625; Oct. 16.
Tool, Fishing. I. Thomas and E. I. Tibbet. 1,687,808; Oct. 16.
Tool, Pneumatic. J. R. L. Santos. 1,688,020–1; Oct. 16.
Torpedo casing. C. Cimorosi. 1,687,929; Oct. 16.
Towel. R. de Tirtoff (Erté). Des. 76,656–7; Oct. 16.
Toy. T. E. Griffin. 1,687,610; Oct. 16.
Toy animal. R. E. Eliett. Des. 76,610; Oct. 16.
Toy horse, Bucking. L. S. Pratt. 1,687,693; Oct. 16.
Toy, Mechanical. E. P. Lehmann. 1,687,675; Oct. 16.
Toy, Mechanical. J. W. Thompson. 1,688,097; Oct. 16.
Toy, Rocker. L. L. Mallard. 1,688,282; Oct. 16.
Toy vehicle. A. Scholer. 1,688,024; Oct. 16.
Tractor and tractor implement. H. Ferguson. 1,687,719; Oct. 16.
Traffic-controlling apparatus, Railway-. H. S. Young. 1,687,920; Oct. 16.
Transformer. F. de Willy. 1,687,973; Oct. 16.
Transmission, Friction-clutch. P. A. Orton. 1,688,129; Oct. 16.
Transmission of pictures, Apparatus and method for electrical. D. E. Branson. 1,687,489; Oct. 16.
Transmission of pictures by electricity. H. E. Ives. 1,688,081; Oct. 16.
Transmission system. H. W. O'Neill. 1,687,883; Oct. 16.
Transmission system, Radiant-energy. L. M. Clement. 1,688,036; Oct. 16.
Transmitter mounting. G. R. Lum. Des. 76,622; Oct. 16.
Trap: *See*—
Animal trap
Trap. G. L. Wingfield. 1,687,963; Oct. 16.
Treating and forming artificial fuel. H. E. Wetherbee. 1,687,815; Oct. 16.
Treating shale and the like, Process of and apparatus for. W. H. Hampton. 1,687,763; Oct. 16.
Tree: *See*—
Shoe-tree.
Trolley base. L. F. Burnham, L. H. Keim, and C. Schafer. 1,687,657; Oct. 16.
Trolling head. W. C. Bogart. 1,688,110; Oct. 16.
Truck, Industrial. E. J. Abbe. 1,688,131; Oct. 16.
Tube: *See*—
Rectifier tube.
Tube manufacture, Apparatus for. C. E. Maynard. 1,687,872; Oct. 16.
Tube-splicing method and apparatus. N. L. Warner. 1,687,811; Oct. 16.
Tubing. C. B. Drevitson. 1,688,178; Oct. 16.
Tumbler, Drying-room. E. Davis. 1,687,971; Oct. 16.
Turbine fan structure. W. F. Carmichael. 1,687,541; Oct. 16.
Type chase. C. E. and F. A. Putnam. 1,687,951; Oct. 16.
Typewriter keyboard. E. S. Larson and F. L. Dinsmore. 1,687,904; Oct. 16.
Typewriting machine. R. M. Jones. 1,687,939; Oct. 16.
Typewriting machine. G. H. Sargent. 1,688,022; Oct. 16.
Typewriting machine. J. Waldheim. 1,688,030; Oct. 16.
Typewriting machine. J. Waldheim. 1,688,166; Oct. 16.
Typewriting-machine frame, Portable-. L. A. Nemcovsky. Des. 76,626; Oct. 16.
Uncoupling device for railway-car couplers. G. G. Gilpin. 1,688,141; Oct. 16.
Valve. F. L. Bryant. 1,688,035; Oct. 16.
Valve. C. B. Drake. 1,687,493; Oct. 16.
Valve. C. B. Drake. 1,687,548; Oct. 16.
Valve. G. E. Hazard. 1,688,185; Oct. 16.
Valve. L. H. Stuart. 1,688,299; Oct. 16.
Valve and cock. T. S. Duncan. 1,687,646; Oct. 16.
Valve, Combination relief. C. Smith. 1,688,092; Oct. 16.
Valve construction, By-pass-. P. L. Scott. 1,687,519; Oct. 16.
Valve, Diaphragm-type relief. C. Smith. 1,688,093; Oct. 16.
Valve, Leakageproof spring-secured safety. E. Gansfried. 1,687,554; Oct. 16.
Valve lifter. D. G. Ludington. 1,688,280; Oct. 16.
Valve, Pump. W. W. Wilson, G. C. Deakins, and R. R. Shull. 1,687,745; Oct. 16.
Valve, Slush-pump. G. S. Fosnaugh and B. Johnson. 1,687,860; Oct. 16.
Valve-spring compression. I. R. Goodsell. 1,687,723; Oct. 16.
Valve structure for compressors, Discharge-. E. H. Steedman. 1,688,027; Oct. 16.
Vanity case. M. E. Schenke. Des. 76,637; Oct. 16.
Vanity case. F. M. Wojciechowski. 1,688,301; Oct. 16.
Vehicle, Air. I. B. Humphreys. 1,688,186; Oct. 16.
Vehicle, Foot-power. C. Dahl. 1,687,715; Oct. 16.
Vehicle jack. R. G. McKee. 1,687,503; Oct. 16.
Ventilator: *See*—
Exhaust ventilator.
Ventilator. J. H. Clark. 1,688,069; Oct. 16.
Ventilator. A. O. Miller. 1,687,843; Oct. 16.
Vibration meter. F. C. Perkins. 1,687,507; Oct. 16.
Wall bracket. B. Newland. Des. 76,629; Oct. 16.
Wall construction. W. A. Fanning. 1,688,230; Oct. 16.
Washer sorting and stringing machine. A. Schonenberger. Re17,104; Oct. 16.
Washing machine. A. W. Altorfer. 1,688,000; Oct. 16.
Washing machine. A. W. Altorfer. 1,688,031; Oct. 16.
Washing machine, Can-. H. M. Price. 1,687,791; Oct. 16.
Washing machine, Motor support for. J. H. Fedler. 1,688,119; Oct. 16.
Waste material, Apparatus for the utilization and treatment of difficultly-manageable. R. Philipp. 1,687,886; Oct. 16.
Wave motor. R. S. Blair. 1,688,032; Oct. 16.
Weatherproofing structure. D. H. Harnly. 1,687,666; Oct. 16.
Weather shield. R. S. Lafoon. 1,688,241; Oct. 16.
Weather strip. H. D. Randall. 1,687,589; Oct. 16.
Weed puller. D. S. Dickie. 1,687,974; Oct. 16.
Weeding device, Portable. A. J. Olsen. 1,687,948; Oct. 16.
Weighing machine. W. Pülz. 1,687,852; Oct. 16.
Welded pipe. W. E. Rupley. 1,687,895; Oct. 16.
Welding apparatus, Electric. A. Churchward. 1,687,492; Oct. 16.
Welt, Finishing. L. B. Strout. 1,688,094; Oct. 16.
Wheel: *See*—
Gear wheel.
Wheel and chain, Traction. C. E. Frederickson. 1,687,834; Oct. 16.
Winding machine. J. A. Anderson. 1,687,704; Oct. 16.
Winding machine, Cop-. J. H. Reed. 1,688,058; Oct. 16.
Window construction. A. H. Fisher. 1,688,231; Oct. 16.
Window device. C. E. Matson. 1,687,870; Oct. 16.
Window, Sliding. H. A. Scoppettone. 1,687,899; Oct. 16.
Windshield cleaner. 1,688,104; Oct. 16.
Wire fabric, Woven-. M. H. Durand. Des. 76,609; Oct. 16.
Wireless telephone tube sending station. H. Chireix. 1,687,828; Oct. 16.
Wood seasoning. F. S. Shinn. 1,687,900; Oct. 16.
Wrapping and banding machine, Package. H. K. Becker and E. G. Jurgens. 1,687,488; Oct. 16.
Wrench: *See*—
Plug wrench.
Wringer and incasing gear mechanism, Rotative and locking unit supporting clothes. D. M. Wenger. 1,687,853; Oct. 16.
Wringer mechanism, Clothes. G. L. Hedges. 1,687,764; Oct. 16.
X-ray appliance. O. H. and A. F. Pieper. 1,687,509; Oct. 16.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 16, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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254— 86: 1,688,155
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145: 1,688,061
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255— 63: 1,688,153
256— 64: 1,687,830

257— 226: 1,688,183
244: 1,688,158
245: 1,688,147
250— 75: 1,688,062
101: 1,688,001
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109: 1,688,211
260— 9: 1,688,228
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128: 1,687,596
156: 1,688,083
168: 1,687,903
261— 44: 1,688,285
115: 1,687,542
120: 1,688,029
262— 2: 1,687,724
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263— 7: 1,687,563
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265— 5: 1,687,852
266— 1.5: 1,687,676
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15: 1,688,220
267— 8: 1,687,527
54: 1,688,180
271— 2.4: 1,687,524
272— 53: 1,687,693
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67: 1,688,188
77: 1,688,033
273— 18: 1,688,310
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67: 1,687,736
73: 1,687,848
110: 1,687,800
137: R. 17,103
138: 1,687,775
274— 2: 1,687,559
277— 44: 1,687,745
280— 47: 1,687,726
87: 1,687,720
158: 1,688,250

281— 5: 1,687,905
282— 29: 1,688,264
285— 22: 1,688,172
24: 1,687,893
58: 1,688,287
93: 1,687,796
108: 1,687,768
287— 103: 1,687,909
292— 77: 1,688,221
166: 1,687,650
169: 1,687,926
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224: 1,687,497
259: 1,687,538
336: 1,688,246
338: 1,687,517
347: 1,687,531
293— 55: 1,687,880
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294— 16: 1,687,552
86: 1,687,781
94: 1,687,808
296— 44: 1,688,085
297— 9: 1,687,842
298— 8: 1,687,618
299— 20: 1,687,830
89: 1,687,545
98: 1,688,195
133: 1,687,672
301— 40: 1,688,051
304— 38: 1,687,706
305— 8: 1,687,834
306— 1: 1,687,619
11: 1,687,769
12: 1,687,953
308— 2: 1,687,894
11: 1,688,119
91: 1,688,075
122: 1,687,622
132: 1,687,668
183: 1,687,755
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187: 1,687,632
207: 1,687,806
312— 10: 1,688,224
22: 1,687,766
27: 1,687,767
60: 1,688,242
71: 1,688,123

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme White Lead & Color Works, Detroit, Mich. Painters' gloss and flat finishes, paints, varnishes, etc. 248,517; Oct. 23; Serial No. 267,105; published Aug. 14, 1928. Class 16.

Alaska Packers Association, San Francisco, Calif. Canned salmon. 71,725–33; renewed Dec. 15, 1928.

Alaska Packers Association, San Francisco, Calif. Canned salmon. 71,735–50; renewed Dec. 15, 1928.

Alaska Packers Association, San Francisco, Calif. Canned salmon. 71,752–75; renewed Dec. 15, 1928.

Alaska Packers Association, San Francisco, Calif. Canned salmon. 71,841–4; renewed Dec. 15, 1928.

Alaska Packers Association, San Francisco, Calif. Canned salmon. 71,879–87; renewed Dec. 22, 1928.

Alaska Packers Association, San Francisco, Calif. Canned salmon. 72,058–9; renewed Dec. 29, 1928.

Alaska Packers Association, San Francisco, Calif. Canned salmon. 72,680; renewed Feb. 9, 1929.

Alaska Packers Association, San Francisco, Calif. Canned salmon. 72,739; renewed Feb. 16, 1929.

Albany Perforated Wrapping Paper Company, New York, N. Y. Toilet, tissue, and crepe paper and paper towels. 248,629; Oct. 23; Serial No. 268,413; published Aug. 14, 1928. Class 37.

All-Klenz Sales Co. Inc., Allentown, Pa. Douche appliances, syringes, and douche attachments therefor. 248,407; Oct. 23; Serial No. 268,668; published Aug. 14, 1928. Class 44.

Altorfer Bros. Company, East Peoria, Ill. Laundry washing machines. 248,494–5; Oct. 23; Serial Nos. 269,069–70; published Aug. 14, 1928. Class 24.

Amateur Cinema League, Inc., New York, N. Y. Monthly magazine. 248,446; Oct. 23; Serial No. 267,686; published Aug. 7, 1928. Class 38.

Amera Chemical Co., Minneapolis, Minn. Tooth paste. 248,397; Oct. 23; Serial No. 256,803; published July 24, 1928. Class 6.

American Carbolite Company, Duluth, Minn., assignor, by mesne assignments, to American Carbolite Company, Inc., New York, N. Y. Calcium carbid. 72,782; renewed Feb. 23, 1929.

American Crayon Company, The, Sandusky, Ohio. Writing ink. 248,470; Oct. 23; Serial No. 241,509; published Mar. 8, 1927. Class 11.

American Drug & Chemical Co., Minneapolis, Minn. Germicide, antiseptic, and deodorant powder. 248,555; Oct. 23; Serial No. 266,506; published July 24, 1928. Class 6.

American Gas Machine Company Inc., Albert Lea, Minn. Gasoline and gas heaters. 248,457; Oct. 23; Serial No. 267,916; published Aug. 14, 1928. Class 34.

American-La France and Foamite Corporation, Elmira and New York, N. Y. Fire-extinguishing apparatus and parts thereof. 248,455; Oct. 23; Serial No. 267,884; published Aug. 14, 1928. Class 23.

American Medicinal Spirits Company, The, Louisville, Ky., and Baltimore, Md. Rye whisky. 248,601; Oct. 23; Serial No. 268,073; published Aug. 14, 1928. Class 49.

American-National Company, The, Toledo, Ohio. Juvenile amusement devices. 248,437; Oct. 23; Serial No. 264,502; published Aug. 7, 1928. Class 22.

American Pigeon Journal Co. (See Hollmann, Frank H.)

American Waterproofing Company, The, Cincinnati, Ohio. Waterproofing paint. 248,523; Oct. 23; Serial No. 266,572; published Aug. 7, 1928. Class 16.

Anderson Company, The, Gary, Ind. Devices for showing and warning of abnormal conditions in combustion-engine-cooling systems. 248,386; Oct. 23; Serial No. 259,095; published Aug. 14, 1928. Class 26.

Andes Range & Furnace Corp., Geneva, N. Y. Gas ranges, gas hot plates, and individual domestic gas-supply systems. 248,470; Oct. 23; Serial No. 250,732; published Aug. 14, 1928. Class 34.

Architectural Decorating Company, Seattle, Wash. Portable mantels for electric heaters, etc. 248,598; Oct. 23; Serial No. 268,131; published Aug. 14, 1928. Class 34.

Arnesto Paint Company, Inc., New York, N. Y. Paint. 248,419; Oct. 23; Serial No. 267,480; published Aug. 7, 1928. Class 16.

Associated Publishing Co., Inc., Los Angeles, Calif., Chicago, Ill., and New York, N. Y. Magazine. 248,448; Oct. 23; Serial No. 267,826; published Aug. 7, 1928. Class 38.

B-J-L Company, The. (See Century Chemical Co., assignor.)

Babcock, A. P., Company, New York, N. Y. Astringents, bleach creams, dry rouges, etc. 248,438; Oct. 23; Serial No. 264,489; published Aug. 7, 1928. Class 6.

Baskerville, John B., assignor to Impactograph Corporation, Roanoke, Va. Impact recorders. 248,423; Oct. 23; Serial No. 266,014; published Aug. 14, 1928. Class 26.

Bastian, W. B., Manufacturing Company, Los Angeles, Calif. Gas water heaters. 248,389; Oct. 23; Serial No. 258,450; published Aug. 14, 1928. Class 34.

Bauer, Philipp, Co. Inc., New York, N. Y. Chemicals. 248,435; Oct. 23; Serial No. 264,603; published July 24, 1928. Class 6.

Baxley, William H., doing business as Florida Chemical Corp., Jacksonville, Fla. Insecticide. 248,393; Oct. 23; Serial No. 257,657; published Aug. 7, 1928. Class 6.

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 248,645; Oct. 23. Class 39.

Beaver Products Company, Inc., The, Buffalo, assignor to Certain-Teed Products Corporation, New York, N. Y. Wooden composition and slate shingles and shingle slabs. 248,486; Oct. 23; Serial No. 203,930; published May 17, 1927. Class 12.

Beggs, C. W., Sons & Co., Chicago, Ill. Cosmetics. 248,402; Oct. 23; Serial No. 254,343; published July 24, 1928. Class 6.

Bens' Chemical Company, The, Jackson, Mich. Penetrating, preserving, long-wearing preparation. 248,412; Oct. 23; Serial No. 267,924; published Aug. 7, 1928. Class 16.

Berry Brothers, Incorporated, Detroit, Mich. Varnish, stain, etc. 248,521; Oct. 23; Serial No. 266,576; published Aug. 14, 1928. Class 16.

Berry Brothers, Incorporated, Detroit, Mich. Lacquers, reducers, rendy-mixed paint, and primers. 248,522; Oct. 23; Serial No. 266,575; published Aug. 14, 1928. Class 16.

Bert's Laboratory. (See Montagna, Humbert F.)

Blenstock, Anna E., Newark, N. J. Cleaning, dusting, and polishing mops. 248,422; Oct. 23; Serial No. 267,403; published Aug. 7, 1928. Class 29.

Binney & Smith Company, New York, N. Y. Crayons, slate pencils, and chalk. 248,609–12; Oct. 23; Serial Nos. 268,136–9; published Aug. 14, 1928. Class 37.

Birk, Walter, Candy Co., Chicago, Ill. Candy. 248,508; Oct. 23; Serial No. 268,842; published Aug. 14, 1928. Class 46.

Black & Decker Manufacturing Co., The, Towson, Md. Electric drilling sets. 248,560; Oct. 23; Serial No. 267,336; published Aug. 14, 1928. Class 23.

Blue Bird Chemical Company, Los Angeles, Calif. Gasoline. 248,554; Oct. 23; Serial No. 266,784; published Aug. 7, 1928. Class 15.

Blue Hill Candy Co. (See Catsigianis, Otto P., assignor.)

Boiler Baffle Wall Co., The. (See MacDowell, John A.)

Bowler, Richard W., Bellingham, Wash. Waterproof auto top dressing. 248,515; Oct. 23; Serial No. 268,674; published Aug. 14, 1928. Class 4.

Bowler Salve Co., Gloversville, N. Y. Salve. 248,643; Oct. 23. Class 6.

Brake Equipment and Supply Company, Chicago, Ill. Repair parts for air-brake equipment. 248,385; Oct. 23; Serial No. 259,100; published Aug. 14, 1928. Class 13.

Breakstone Bros., Inc., New York, N. Y. Cream cheese. 248,487; Oct. 23; Serial No. 198,699; published Aug. 2, 1927. Class 46.

Bridgeport Bottling Co. Inc., The, Bridgeport, Conn. Maltless beverages and sirups for making the same. 248,449; Oct. 23; Serial No. 267,830; published Aug. 14, 1928. Class 45.

Brooks, E. J., and Company, New York, N. Y. Truck-car and shipping-case seals. 248,550; Oct. 23; Serial No. 266,578; published Aug. 7, 1928. Class 25.

Brooks, Leone W., Flint, Mich. Medicine for the treatment of hay fever, medicinal snuff, etc. 248,582; Oct. 23; Serial No. 263,068; published Aug. 7, 1928. Class 6.

Brown, A. & F., Company, The, Elizabethport, N. J. Bibs, bushings, caps, gauges, etc. 248,556; Oct. 23; Serial No. 267,295; published Aug. 14, 1928. Class 13.

California Sea Food Company. (See Rex, M. A.)

Camel Lead, Color & Chemical Products Mfg. Corp., Brooklyn, N. Y. Colors in oil, white lead, and combination white lead. 248,406; Oct. 23; Serial No. 268,913; published Aug. 14, 1928. Class 16.

Cannon, Lill, Bowersville, Ga. Bread. 248,514; Oct. 23; Serial No. 268,675; published Aug. 7, 1928. Class 46.

Canton Pure Milk Company, The, Canton, Ohio. Chocolate-flavored milk. 248,404; Oct. 23; Serial No. 269,082; published Aug. 14, 1928. Class 46.

Cape Ann Isinglass Company, Boston, Mass. Isinglass. 248,403; Oct. 23; Serial No. 269,085; published Aug. 14, 1928. Class 46.

Carr Chain Works Inc., Troy, N. Y. Chains used in hardware and saddlery lines. 248,500; Oct. 23; Serial No. 269,016; published Aug. 14, 1928. Class 13.

Carson Pirie Scott & Co., assignor to Carson Pirie Scott & Co., Chicago, Ill. Silk piece goods. 70,279; renewed Aug. 18, 1928.

Carter Radio Company, Chicago, Ill. Rheostats and potentiometers for radio use. 248,649; Oct. 23. Class 21.

Catsigianis, Otto P., doing business as Blue Hill Candy Co., assignor to Blue Hill Candy Co., St. Louis, Mo. Candies. 248,476; Oct. 23; Serial No. 247,260; published Aug. 14, 1928. Class 46.

Cawthon-Coleman Company, by change of name to Cawthon-Coleman Drug Company, Selma, Alaska. Remedy for certain diseases. 72,480; renewed Jan. 26, 1929.

Cedar Rapids Bottling Works, Cedar Rapids, Iowa. Ginger ale, root beer, etc. 248,504; Oct. 23; Serial No. 268,965; published Aug. 14, 1928. Class 45.
Central Market Co. (See Penobscot Beef & Provision Co.)
Century Chemical Co., assignor, by mesne assignments, to The B-J-L Company, Indianapolis, Ind. Celery tonic. 70,409; renewed Aug. 25, 1928.
Certain-teed Products Corporation. (See Beaver Products Company, assignor.)
Chalfont Products Incorporated, New York, N. Y. Lotions and creams. 248,469; Oct. 23; Serial No. 252,241; published Aug. 7, 1928. Class 6.
Cheltenham Knitting Co., Philadelphia, Pa. Underwear. 248,638; Oct. 23. Class 39.
Chemical Foundation, Incorporated, The. (See Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, assignor.)
Chicago Daily News, Inc., The, Chicago, Ill. Newspapers. 248 551; Oct. 23; Serial No. 266,581; published Aug. 7, 1928. Class 38.
Chrysler Corporation, Detroit, Mich. Internal-combustion engines. 248,503; Oct. 23; Serial No. 268,966; published Aug. 14, 1928. Class 23.
Clarke Paper Company, Wheeling, W Va. Toilet paper. 248,505; Oct. 23; Serial No. 268,915; published Aug. 14, 1928. Class 37.
Cohen, H. & A. L. (See Seidel, Titus L., assignor.)
Costa Brothers, Stockton, Calif. Fresh grapes. 248,493; Oct. 23; Serial No. 269,092; published Aug. 14, 1928. Class 46.
Crown Willamette Paper Company, San Francisco, Calif. Paper towels. 248,545; Oct. 23; Serial No. 266,417; published July 10, 1928. Class 37.
Curtiss Candy Company, The, Chicago, Ill. Chewing gum and candy. 248,492; Oct. 23; Serial No. 269,095; published Aug 14, 1928. Class 46.
Day, W. Jule, New York, N. Y. Paints and lacquers. 248,418 Oct. 23; Serial No. 267,486; published Aug. 7, 1928. Class 16.
Dell Publishing Company, New York, N. Y. Magazine. 248,536; Oct. 23; Serial No. 266,649; published Aug. 7, 1928. Class 38.
De Nobili Cigar Company, New York, N. Y. Cigars. 248,608; Oct. 23; Serial No. 268,147; published Aug. 14, 1928. Class 17.
De Vry Corporation, The, Chicago, Ill. Moving-picture projectors, cameras, etc. 248,462; Oct. 23; Serial No. 259,713; published Aug. 14, 1928. Class 26.
Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Demco, Incorporated, Baltimore, Md. Vises and spraying outfits. 248,424; Oct. 23; Serial No. 265,956; published Aug. 14, 1928. Class 23.
Dorr Company, The, New York, N. Y. Apparatus for the treatment of solids suspended in liquids. 248,626; Oct. 23; Serial No. 268,491 published Aug. 14, 1928. Class 23.
Doughnut Machine Corporation, New York, N. Y. Self-rising prepared flour. 248,471; Oct. 23; Serial No. 250,017; published July 31, 1928. Class 46.
Dow Drug Company, The, Cincinnati, Ohio. Photographs and photographic prints. 248,392; Oct. 23; Serial No. 258,117; published Aug. 7, 1928. Class 38.
Drive-O-Meter Company. (See Winston Jules N.)
Dunbar-Dukate Company, Inc., New Orleans, La. Canned raviolis and oysters. 248,635; Oct. 23; Serial No. 268,358; Oct. 23; Published Aug. 14, 1928. Class 46.
Dunlap, Ethelbert H., doing business as Dunlap Medicine Company, Memphis, Tenn. Medicine. 248,473; Oct. 23; Serial No. 249,516; published July 24, 1928. Class 6.
Eastern Rolling Mill Company, The, Baltimore, Md. Sheet steel and steel alloys. 248,520; Oct. 23; Serial No. 266,587; published Aug. 7, 1928. Class 14.
Emerson Drug Co., Baltimore, Md. Maltiess beverage and syrup and concentrates. 248,634; Oct. 23; Serial No. 268,360; published Aug. 14, 1928. Class 45.
Etablissements Textiles de Pfetterhouse, Pfetterhouse, France. Elastic supporters, bandages, belts, etc. 248,516; Oct. 23; Serial No. 267,300; published Aug. 7, 1928. Class 44.
Farley, C. J., & Co., Grand Rapids, Mich. Hosiery, underwear, men's furnishings, etc. 248,644; Oct. 23. Class 39.
Federal Cigar Company, Inc., Red Lion, Pa. Cigars. 248,633; Oct. 23; Serial No. 268,361; published Aug. 14, 1928. Class 17.
Fidelity Laundry Machinery & Engineering Company, Minneapolis, Minn. Garment presses. 248,388; Oct. 23; Serial No. 258,900; published Mar. 20, 1928. Class 24.
Fields, Hilliard L., doing business as Israel Medicine Company, Hammond, Ind., and Detroit, Mich. Body tonics. 248,485; Oct. 23; Serial No. 223,027; published July 24, 1928. Class 6.
Finlayson, Bousfield & Co., Ltd., Johnstone, Scotland. Fishing lines. 248,563; Oct. 23; Serial No. 267,248; published Aug. 7, 1928. Class 22.
Flexible Engineering Corporation, New York, N. Y. Gears and pinions. 248,625; Oct. 23; Serial No. 268,493; published Aug. 11, 1928. Class 23.
Florida Chemical Corp. (See Baxley, William H.)
French Cosmetic Mfg. Co., Inc., New Rochelle, N. Y. Astringents, bleach and beauty creams, dry rouges, etc. 248,647; Oct. 23. Class 6.
French, Samuel H., & Co., assignor to Samuel H. French & Co., Philadelphia, Pa. Paints and varnishes. 70,015; renewed July 21, 1928.
Fun Method. (See Kohler & Chase.)
Gardner, Leonard T., doing business as Lindico Oil Co., Baltimore, Md. Liquid-fuel oils and lubricating oils. 248,429; Oct. 23; Serial No. 265,376; published Aug. 7, 1928. Class 15.
Garneau & de Bruyn, Inc., New York, N. Y. Canned fish. 248,384; Oct. 23; Serial No. 259,282; published Aug. 14,1928. Class 46.
Georgia Chemical Works, Augusta, Ga. Fertilizers. 248,491; Oct. 23; Serial No. 269,110; published Aug. 14, 1928. Class 10.
Giles-Cummings Company, Inc., Boston, Mass. Butter. 248,426; Oct. 23; Serial No. 265,789; published Aug. 7, 1928. Class 46.
Giunta, Anthony P., doing business as Giunta Brothers Mfg. Co., Philadelphia, Pa. Fruit presses, fruit and cider crushers, macaroni machines, etc. 248,456; Oct. 23; Serial No. 267,893; published Aug. 14, 1928. Class 23.
Gladke, Jerome J., doing business as The Painalac Co., Elmira, N. Y. External preparation. 248,593; Oct. 23; Serial No. 261,362; published July 24, 1928. Class 6.
Goody Nectar Company, Oklahoma City, Okla. Maltless beverages and syrups for making the same. 248,458; Oct. 23; Serial No. 267,950; published Aug. 14, 1928. Class 45.
Gordhamer, Harry A., doing business as Minnetonka Creamery Co., Minneapolis, Minn. Creamery butter. 248,459; Oct. 23; Serial No. 267,951; published Aug. 7, 1928. Class 46.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Spark plugs. 248,561; Oct. 23; Serial No. 267,414; published Aug. 7, 1928. Class 21.
Grape Capsule Company, Allentown, Pa. Castor oil in capsules. 70,447; renewed Sept. 1, 1928.
Griffis, Wm., doing business as X-It Laboratories, Cleveland, Ohio. Auto cleaner, wax paste auto polish, etc. 248 519; Oct. 23; Serial No. 266,927; published Aug. 7, 1928. Class 16.
H & H Mineral Water Co. (See Krekler, Albert.)
Hamilton Rubber Manufacturing Company, Trenton, N. J. Rubber hose, rubber packing and belting. 248,436; Oct. 23; Serial No. 264,517; published Aug. 14, 1928. Class 35.
Hampshire Paper Company, South Hadley Falls, Mass. Paper and envelopes. 248,620; Oct. 23; Serial No. 268,603; published Aug. 14, 1928. Class 37.
Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, Hanover-Limmer, Germany, assignor to Hanover Rubber Co. "Excelsior" Inc., New York, N. Y. Rubber combs. 70,315; renewed Aug. 18, 1928.
Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, Hanover-Limmer, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Rubber goods. 71,199; renewed Nov. 10, 1928.
Hanover Rubber Co. "Excelsior" Inc. (See Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, assignor.)
Hardaway-Cargill Co., Columbus, Ga. Cane syrup. 248,417; Oct. 23; Serial No. 267,653; published Aug. 14, 1928. Class 46.
Hardy, Steven, New York, N. Y. Wood cleaning and polishing fluid. 248,518; Oct. 23; Serial No. 266,930; published Aug. 7, 1928. Class 16.
Henckels, J. A., Solingen, Germany. Knife letter openers. 248,572; Oct. 23; Serial No. 266,931; published Aug. 14, 1928. Class 23.
Henderson Lithographing Company, The, Norwood, Ohio. Tally cards. 248,576; Oct. 23; Serial No. 267,416; published Aug. 7, 1928. Class 37.
Hills Bros., assignor to Hills Bros., San Francisco, Calif. Coffee. 71,581; renewed Dec. 1, 1928.
Hills Bros., assignor to Hills Bros., San Francisco, Calif. Tea. 71,813; renewed Dec. 15, 1928.
Hobbs, Robert F., Inc., Beverly, N. J. Wall paper. 248,490; Oct. 23; Serial No. 269,119; published Aug. 14, 1928. Class 37.
Hoberg Paper and Fibre Company, Green Bay, Wis. Toilet paper, paper towels and napkins. 248,549; Oct. 23; Serial No. 266,537; published Aug. 14, 1928. Class 37.
Hoberg Paper and Fibre Company, Green Bay, Wis. Toilet paper, paper towels and napkins. 248,582; Oct. 23; Serial No. 266,536; published Aug. 14, 1928. Class 37.
Hoffman, Theodore, New York, N. Y. Perfumes, toilet waters, bleach cream, etc. 248,433; Oct. 23; Serial No. 264,683; published July 24, 1928. Class 6.
Hollmann, Frank H., doing business as American Pigeon Journal Co., Warrenton, Mo. Periodical. 248,606; Oct. 23; Serial No. 268,158; published Aug. 7, 1928. Class 38.
Horton & Hubbard Mfg. Co., The, East Somerville, Mass. Suitcases. 248,617; Oct. 23; Serial No. 268,284; published Aug. 7, 1928. Class 3.
Houde Engineering Corporation, Buffalo, N. Y. Shock absorbers. 248,512–13; Oct. 23; Serial Nos. 268,693–4; published Aug. 14, 1928. Class 19.
Housh Company, Inc., The, Boston, Mass. Albums. 248,546; Oct. 23; Serial No. 266,427; published Aug. 7, 1928. Class 37.

Houston Engineers, Houston, Tex. Apparatus for ascertaining the quantity and quality of fluid in an earth stratum in a well bore. 248,482; Oct. 23; Serial No. 237,604; published Aug. 14, 1928. Class 26.
Houston Printing Company, Houston, Tex. Section of a daily publication. 248,575; Oct 23; Serial No. 267,417; published Aug. 7, 1928. Class 38.
Houston Printing Company, Houston, Tex. Heading for a newspaper column. 248,622; Oct. 23; Serial No. 268,545; published Aug. 7, 1928. Class 38.
Houston Printing Company, Houston, Tex. Heading for an annual section of a newspaper. 248,623; Oct. 23; Serial No. 268,544; published Aug. 7, 1928. Class 38.
Hovey, C. F., Co., Boston, Mass. Carpet sweepers. 248,474; Oct. 23; Serial No. 248,104; published June 7, 1927. Class 23.
Hubbuck, Thomas, & Son, Limited, London, England. Linseed oil. 248,531; Oct. 23; Serial No. 262,851; published Aug. 7, 1928. Class 16.
Huebschman, Hyman, doing business as Ritz Chemical Company, Brooklyn, N. Y. Russian mineral oil for medicinal use. 248,583; Oct. 23; Serial No. 262,852; published July 24, 1928. Class 6.
Huffman, W. F., Printing Company, Wisconsin Rapids, Wis. Magazine. 248,585; Oct. 23; Serial No. 262,804; published Aug. 14, 1928. Class 38.
Hupp Motor Car Corporation, Detroit, Mich. Used automobiles. 248,573; Oct. 23; Serial No. 267,420; published Aug. 14, 1928. Class 19.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Medicinal gold preparation. 248,391; Oct. 23; Serial No. 258,222; published July 24, 1928. Class 6.
Impactograph Corporation. (See Baskerville, John B., assignor.)
Independent Macaroni Co. Inc., doing business as Independent Macaroni M'f'g. Co., Mount Vernon, N. Y. Macaroni. 248,524; Oct. 23; Serial No. 266,468; published Aug. 7, 1928. Class 46.
Internationale Feuerlöscher-Gesellschaft mit beschränkter Haftung, Berlin-Charlottenburg, Germany. Portable fire extinguishers. 248,467; Oct. 23; Serial No. 252,847; published Aug. 14, 1928. Class 23.
International Milling Company, doing business as Western Flour Mills, Minneapolis, Minn., and Davenport, Iowa. Wheat flour. 248,604; Oct. 23; Serial No. 268,041; published July 31, 1928. Class 46.
International Paper Company, New York, N. Y. Kraft paper. 248,588; Oct. 23; Serial No. 262,308; published Aug. 14, 1928. Class 37.
International Time Recording Company of New York, Endicott, N. Y. Locks. 248,460; Oct. 23; Serial No. 267,961; published Aug. 14, 1928. Class 25.
Irving Chemical Company. (See Rodgers, E. I.)
Israel Medicine Company. (See Fields, Hilliard L.).
J. B. King & Co., New York, N. Y., assignor to United States Gypsum Company, Chicago, Ill. Plaster board. 50,575; renewed Sept. 15, 1928.
Katz & Cooper, New York, N. Y. Gymnasium and hiking apparel. 248,646; Oct. 23. Class 39.
Kauffman, Jacob, New York, N. Y. Paper sputum cups. 248,416; Oct. 23; Serial No. 267,658; published Aug. 14, 1928. Class 44.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. 248,498; Oct. 23; Serial No. 269,053; published Aug. 14, 1928. Class 46.
Kemitex Products Company, The, Akron, Ohio. Automobile sun and storm curtains. 248,480; Oct. 23; Serial No. 240,863; published Aug. 14, 1928. Class 19.
Kemitex Products Company, The, Akron, Ohio. Trunks, traveling bags, etc. 248,481; Oct. 23; Serial No. 240,861; published Aug. 7, 1928. Class 3.
Keystone Watch Case Company, The, Riverside, N. J. Watches and watchcases. 248,651; Oct. 23. Class 27.
Kincaid & Company, Inc., Utica, N. Y. Coats, vests, trousers, etc. 248,639; Oct. 23. Class 39.
Kingsway Corporation, The, Tampa, Fla. Fruit juices. 248,464; Oct. 23; Serial No. 259,961; published Aug. 14, 1928. Class 45.
Kisco Boiler & Engineering Company, St. Louis, Mo. Boilers and ventilating fans. 248,569; Oct. 23; Serial No. 267,129; published Aug. 14, 1928. Class 24.
Kluger, Louise, Company, The, Cleveland, Ohio. Confectionery, candied fruit, hickory nuts, etc. 248,652; Oct. 23. Class 46.
Knox Varnish Company, Boston, Mass. Paint enamels and varnishes. 248,411; Oct. 23; Serial No. 267,968; published Aug. 7, 1928. Class 16.
Kohler & Chase, doing business as Fun Method, San Francisco, Calif. Music charts and music books. 248,430; Oct. 23; Serial No. 265,277; published Aug. 7, 1928. Class 38.
Koppie, Morris D., New York, N. Y. Automatic machinery. 248,401; Oct. 23; Serial No. 254,354; published Aug. 14, 1928. Class 23.
Kraft-Phenix Cheese Company, Chicago, Ill. Powdered whey solid. 268,619; Oct. 23; Serial No. 268,616; published Aug. 7, 1928. Class 46.
Krekler, Albert, doing business as H & H Mineral Water Co., Clinton, Ind. Mineral water. 248,605; Oct. 23; Serial No. 268,163; published Aug. 14, 1928. Class 45.
Kroger Grocery and Baking Co., The, Cincinnati, Ohio. Spiced boneless pig's feet and pickled spiced tongue. 248,537; Oct. 23; Serial No. 266,033; published Aug. 7, 1928. Class 46.
Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Rice. 248,630; Oct. 23; Serial No. 268,502; published Aug. 7, 1928. Class 46.
Lambert Chocolate Company, Jackson, Mich. Candy. 248,641; Oct. 23. Class 46.
Laucks, I. F., Inc., Seattle, Wash. Glue. 248,483; Oct. 23; Serial No. 233,615; published July 31, 1928. Class 5.
Lawton Co., The, Cincinnati, Ohio. Ladies' silk hose. 248,650; Oct. 23. Class 39.
Lefkowitz, L. J. & M., Inc., New York, N. Y. Hand bags. 248,600; Oct. 23; Serial No. 268,103; published July 31, 1928. Class 3.
Leonard, Victor, St. Petersburg, Fla. Cartoons. 248,613; Oct. 23; Serial No. 268,164; published Aug. 7, 1928. Class 38.
Lind, John E., Washington, D. C. Telephone memorandum support. 248,396; Oct. 23; Serial No. 257,241; published Aug. 14, 1928. Class 37.
Lindico Oil Co. (See Gardner, Leonard T.)
Livermore, Miles F., Brazil, Ind. Peanut butter. 248,408; Oct. 23; Serial No. 268,454; published Aug. 7, 1928. Class 46.
Log Cabin Products Company, The. (See Towle Maple Syrup Company, The, assignor.)
Love, J. H., doing business as Love Bottling Co., Pawhuska, Okla. Maltless beverages. 248,553; Oct. 23; Serial No. 266,674; published Aug. 14, 1928. Class 45.
Lucas, John, & Co., Inc., Philadelphia, Pa. Paints, stains, varnishes, etc. 248,528; Oct. 23; Serial No. 264,033; published Aug. 14, 1928. Class 16.
Lucier, Celia A., Chicago, Ill. Cleaning compound. 248,603; Oct. 23; Serial No. 268,046; published Aug. 7, 1928. Class 4.
Lynne Arley, Inc., New York, N. Y. Appliances for stimulating the skin and muscular tissues. 248,533; Oct. 23; Serial No. 260,395; published Aug. 14, 1928. Class 44.
MacDowell, John A., doing business as The Boiler Baffle Wall Co., Columbus, Ohio. Baffle-wall structures. 248,602; Oct. 23; Serial No. 268,047; published Aug. 14, 1928. Class 34.
Macfadden Publications Incorporated, New York, N. Y. Magazine. 248,461; Oct. 23; Serial No. 267,980; published Aug. 7, 1928. Class 38.
MacKenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. 248,507; Oct. 23; Serial No. 268,872; published Aug. 14, 1928. Class 46.
Magill-Weinsheimer Company, Chicago, Ill. Advertising posters. 248,427; Oct. 23; Serial No. 265,733; published Aug. 14, 1928. Class 38.
Marshall Field & Company, Chicago, Ill. Toys, toy blocks, bows and arrows, etc. 248,434; Oct. 23; Serial No. 264,676; published Aug. 7, 1928. Class 22.
Mauck, Lee W., doing business as Multicreme Company, Lyons, Kans. Cold cream, ointment, tooth paste, etc. 248,591; Oct. 23; Serial No. 261,581; published July 24, 1928. Class 6.
May Department Stores Company, The, St. Louis, Mo. Razor blades. 248,506; Oct. 23; Serial No. 268,875; published Aug. 14, 1928. Class 23.
McCarty, Mrs. Esther L., doing business as McCarty Medicine Company, New Orleans, La. Tonic for constipation, etc. 248,466; Oct. 23; Serial No. 260,742; published Aug. 7, 1928. Class 6.
McNeely & Price, assignor to McNeely & Price Co., Philadelphia, Pa. Glazed kid. 71,715; renewed Dec. 15, 1928.
Mentholatum Company, The, Wichita, Kans., and Buffalo, N. Y. Salve. 248,543; Oct. 23; Serial No. 266,386; published July 24, 1928. Class 6.
Merchandising Publishing Corporation, St. Louis, Mo.; Chicago, Ill.; and New York, N. Y. Periodical. 248,445; Oct. 23; Serial No. 267,661; published Aug. 7, 1928. Class 38.
Metro Chocolate Co. Inc., The, Brooklyn, N. Y. Candy confection on a stick. 248,428; Oct. 23; Serial No. 265,393; published July 24, 1928. Class 46.
Meyer's Company, The, Greensboro, N. C. Men's and boys' clothing. 248,640; Oct. 23. Class 39.
Midway Chemical Company, Chicago, Ill. Household disinfectant. 248,400; Oct. 23; Serial No. 254,411; published Aug. 7, 1928. Class 6.
Midway Chemical Company, Chicago, Ill. Furniture polish, liquid wax, etc. 248,535; Oct. 23; Serial No. 254,412; published Aug. 7, 1928. Class 16.
Minnetonka Creamery Co. (See Gordhamer, Harry A.)
Mohawk Condensed Milk Co., Rochester and New York, N. Y. Condensed milk. 71,394; renewed Nov. 24, 1928.
Mohawk Condensed Milk Co., Rochester and New York, N. Y. Condensed milk. 72,462; renewed Jan. 26, 1929.
Montagna, Humbert F., doing business as Bert's Laboratory, Los Angeles, Calif. Foot balsam. 248,590; Oct. 23; Serial No. 261,640; published Aug. 7, 1928. Class 6.
Montague Rod and Reel Company, Montague City, Mass. Fishing rods. 248,465; Oct. 23; Serial No. 260,832; published Aug. 7, 1928. Class 22.
Moody, Maud E., Austin, Tex. Blank book for family records. 248,542; Oct. 23; Serial No. 266,342; published Aug. 14, 1928. Class 37.
Morrison, E. A., Inc., Los Angeles, Calif. Canned fruits, vegetables, and dried fruits. 248,489; Oct. 23; Serial No. 269,134; published Aug. 14, 1928. Class 46.
Mueller, H., Manufacturing Company, by change of name to Mueller Co., Decatur, Ill. Handles for self closing bibs and faucets. 71,492; renewed Nov. 24, 1928.

Mueller, H., Manufacturing Company, by change of name to Mueller Co., Decatur, Ill. Machines for tapping mains and parts of such machines. 71,527; renewed Dec. 1, 1928.

Mülhens, Paul P., doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps. 248,478; Oct. 23; Serial No. 242,107; published Aug. 7, 1928. Class 4.

Multicreme Company. (See Mauck, Leo W.)

Murphy, Raymond O., doing business as The Stillwater Remedy Co., Stillwater, Minn. Stomach tonic, indigestion remedy, etc. 248,387; Oct. 23; Serial No. 259,013; published July 24, 1928. Class 6.

Naamlooze Venootschap International Perfumery Company, Amsterdam, Netherlands. Soaps. 248,632; Oct. 23; Serial No. 208,381; published Aug. 14, 1928. Class 4.

National Bank Supply Co., The, Milwaukee, Wis. Typewriter ribbons and carbon paper. 248,621; Oct. 23; Serial No. 268,555; published Aug. 14, 1928. Class 11.

Neale, Inc., Los Angeles, Calif. Signs. 248,581; Oct. 23; Serial No. 263,223; published Aug. 7, 1928. Class 21.

New York Bed Spring Mfg. Co., Detroit, Mich. Beds, bed springs, couches, etc. 248,594; Oct. 23; Serial No. 261,278; published Aug. 14, 1928. Class 32.

Nodusto Manufacturing Co. (See Orchard, Mary E.)

Noma Electric Corporation, New York, N. Y. Lighting outfits, decorative devices. 248,544; Oct. 23; Serial No. 266,394; published Aug. 7, 1928. Class 21.

Ofiesh, Thomas E., Altoona, Pa. Cigarettes. 248,497; Oct. 23; Serial No. 269,054; published Aug. 14, 1928. Class 17.

Orange Mutual Citrus Association, Orange, Calif. Fresh citrus fruits. 248,488; Oct. 23; Serial No. 269,140; published Aug. 14, 1928. Class 46.

Orchard, Mary E., doing business as Nodusto Manufacturing Co., Rochester, N. Y. Paper covers. 248,618; Oct. 23; Serial No. 268,627; published Aug. 14, 1928. Class 37.

Out West Manufacturing Co., Denver, Colo. Nonmetallic compound for stopping leaks in automobile radiators. 248,475; Oct. 23; Serial No. 247,630; published Aug. 7, 1928. Class 6.

Painalac Co., The. (See Gladke, Jerome J.)

Pandora Products Co. (See Porter, Hannah A.)

Paris Comet, Inc., New York, N. Y. Magazines. 248,597; Oct. 23; Serial No. 268,462; published Aug. 7, 1928. Class 38.

Pass & Seymour, Incorporated, Solvay, to Pass & Seymour, Inc., Syracuse, N. Y. Electrical goods. 72,721; renewed Feb. 16, 1929.

Penbody, Henry W., & Co., New York, N. Y. Olive oil. 248,405; Oct. 23; Serial No. 269,035; published Aug. 14, 1928. Class 46.

Peerless Products Corporation, Clearwater, Fla. Liquid preparation for refinishing leather. 248,472; Oct. 23; Serial No. 249,675; published Aug. 14, 1928. Class 4.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Umbrellas. 248,432; Oct. 23; Serial No. 264,906; published July 10, 1928. Class 41.

Penobscot Beef & Provision Co., also doing business as Central Market Co., Inc., Bangor, Me. Eggs. 248,538; Oct. 23; Serial No. 266,043; published July 31, 1928. Class 46.

Pennzoil Company, The, Los Angeles, Calif. Motor fuel oils and lubricant oils and greases. 248,431; Oct. 23; Serial No. 265,065; published Aug. 7, 1928. Class 15.

Peoples Opinion Printing Co., Valley City, N. Dak. Weekly publication. 248,562; Oct. 23; Serial No. 267,273; published Aug. 14, 1928. Class 38.

Petchelis, Stephen M., doing business as Splendid Chemical Products Manufacturing Co., New York, N. Y. Silver polish, shoe polish, shoe cream, etc. 248,441; Oct. 23; Serial No. 263,970; published Aug. 7, 1928. Class 4.

Petit, Alfred, Juan-les-Pins, France. Dental products. 248,439; Oct. 23; Serial No. 264,326; published July 24, 1928. Class 6.

Pike, David H., doing business as Salutary Products Company, Council Bluffs, Iowa. -Drugs and medicines for hogs and stock. 248,584; Oct. 23; Serial No. 262,818; published July 24, 1928. Class 6.

Pioneer Cooperage Co., St. Louis, Mo. Cooperage. 248,442; Oct. 23; Serial No. 267,601; published Aug. 14, 1928. Class 2.

Pioneer Cooperage Co., St. Louis, Mo. Cooperage. 248,444; Oct. 23; Serial No. 267,602; published Aug. 14, 1928. Class 2.

Plex Dry Stencil Corporation, The, New York, N. Y. Dry stencils. 248,571; Oct. 23; Serial No. 267,509; published Aug. 7, 1928. Class 4.

Porcelain Products, Inc., Findlay, Ohio. Porcelain articles used for insulating purposes. 248,390; Oct. 23; Serial No. 258,286; published Aug. 7, 1928. Class 21.

Porter, Hannah A., doing business as Pandora Products Co., East Fitchburg, Mass. Cleaner for bathtubs, lavatories, etc. 248,558; Oct. 23; Serial No. 267,314; published Aug. 7, 1928. Class 4.

Postum Cereal Co. Limited, Battle Creek, Mich., assignor to Postum Company, Incorporated, New York, N. Y. Cereal preparation for making beverages. 71,262; renewed Nov. 10, 1928.

Poultry Producers of Central California, San Francisco, Calif. Poultry and stock feed. 248,592; Oct. 23; Serial No. 261,384; published July 31, 1928. Class 46.

Pratt-Mallory Company, Sioux City, Iowa. Toothpicks. 248,420; Oct. 23; Serial No. 267,459; published Aug. 7, 1928. Class 44.

Pratt-Mallory Company, Sioux City, Iowa. Brooms. 248,421; Oct. 23; Serial No. 267,458; published Aug 1, 1928. Class 29.

Presto Signal Company, The, San Francisco, Calif. Mechanical direction indicators for motor vehicles. 248,440; Oct. 23; Serial No. 264,048; published Aug. 14, 1928. Class 23.

Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 248,425; Oct. 23; Serial No. 265,929; published Aug. 7, 1928. Class 4.

Q R S Company, The, Chicago, Ill. Phonographs. 248,547; Oct. 23; Serial No. 266,618; Aug. 7, 1928. Class 36.

Quaker Oil Company, Inc., Plainfield, Ind. Motor-lubricating oil. 248,607; Oct. 23; Serial No. 267,996; published Aug. 7, 1928. Class 15.

Revere Electric Co., Chicago, Ill. Electrical supplies. 248,540; Oct. 23; Serial No. 266,148; published Aug. 7, 1928. Class 21.

Rex, M. A., doing business as California Sea Food Company, Los Angeles, Calif. Canned fish. 248,589; Oct. 23; Serial No. 262,141; published Apr. 24, 1928. Class 46.

Richter, F. Ad., & Co. of New York, Brooklyn, N. Y. Balsam. 248,615; Oct. 23; Serial No. 268,311; published Aug. 7, 1928. Class 6.

Rinshed-Mason Co., Detroit, Mich. Paints, paint enamels, varnishes, etc. 248,413–4; Oct. 23; Serial Nos. 267 859–60; published Aug. 14, 1928. Class 16.

Ritz Chemical Company. (See Huebschman.)

Rocky Hill Corporation, Exeter, Calif. Fresh citrous and deciduous fruits. 248,534; Oct. 23; Serial No. 255,532; published Dec. 20, 1927. Class 46.

Rodgers, E. I., doing business as Irving Chemical Company, San Antonio, Tex. Dental preparation. 248,395; Oct. 23; Serial No. 257,255; published July 31, 1928. Class 6.

Ross, Sydney, Co., The, Newark, N. J. Analgesic and counterirritant. 248,586; Oct. 23; Serial No. 262,778; published July 24, 1928. Class 6.

Rossano, G., & Bro., New York, N. Y. Lucca olive oil. 72,758; renewed Feb. 16, 1929.

Rudy-Patrick Seed Company, Kansas City, Mo. Poultry feeds and stock feeds. 248,566; Oct. 23; Serial No. 267,146; published July 31, 1928. Class 46.

Rumford Chemical Works, Providence, R. I. Periodicals. 248,567; Oct. 23; Serial No. 267,013; published Aug. 14, 1928. Class 38.

Russell, Clabe, Fort Worth, Tex. Preparation for dandruff, falling hair, and dry scalp. 248,383; Oct. 23; Serial No. 259,646; published July 24, 1928. Class 6.

St. Paul Bottling Company, St. Paul, Minn. Maltless beverages. 248,511; Oct. 23; Serial No. 268,732; published Aug. 14, 1928. Class 45.

Salutary Products Company. (See Pike, David H.)

Sanitarium Equipment Company, Battle Creek, Mich. Massaging or mechanical exercising machines. 248,415; Oct. 23; Serial No. 267,725; published Aug. 14, 1928. Class 44.

Sanitarium Equipment Company, Battle Creek, Mich. Exercising machines. 248,526; Oct. 23; Serial No. 265,502; published Aug. 14, 1928. Class 44.

Santaella, A. & Co., Inc., New York, N. Y. Cigars. 248,510; Oct. 23; Serial No. 268,753; published Aug. 14, 1928. Class 17.

Scull, E. H., Company, Chicago, Ill., and New York, N. Y. Periodical publication. 248,614; Oct. 23; Serial No. 268,174; published Aug. 7, 1928. Class 38.

Scull, William S., Company, Camden, N. J. Coffee. 248,496; Oct. 23; Serial No. 269,066; published Aug. 14, 1928. Class 46.

Seidel, Titus L., Reading, Pa., assignor to H. & A. L. Cohen, Indianapolis, Ind. Hosiery. 70,356; renewed Aug. 25, 1928.

Shoecraft Shop, Inc., New York, N. Y. Arch supports. 248,525; Oct. 23; Serial No. 265,992; published Aug. 7, 1928. Class 44.

Simonds Manufacturing Company, Fitchburg, Mass.; Chicago, Ill.; Portland, Oreg.; Seattle, Wash.; and San Francisco, Calif., assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Saws and machine knives. 71,413; renewed Nov. 24, 1928.

Sipes, Jasper, Co., Oklahoma City, Okla. Notebooks, tablets, loose-leaf binders, etc. 248,468; Oct. 23; Serial No. 252,263; published Aug. 7, 1928. Class 37.

Sklar, J., Manufacturing Co., New York, N. Y. Surgical and dental instruments. 248,532; Oct. 23; Serial No. 260,761; published Aug. 14, 1928. Class 44.

Smith, D. B., & Company, Inc., Utica, N. Y. Hand and power operated sprayers, spray pumps, etc. 248,557; Oct. 23; Serial No. 266,832; published Aug. 14, 1928. Class 23.

Smith-Junior Company, Inc., Rochester, N. Y. Maltless syrups and flavorings. 248,450–3; Oct. 23; Serial Nos. 267,865–8; published Aug. 14, 1928. Class 45.

Société Anonyme Etablissements Mulvidson, Paris, France. Lixivial liquids and powders. 243,398; Oct. 23; Serial No. 255,357; published July 17, 1928. Class 4.

Solarine Company, Baltimore, Md. Chemical preparation. 248,596; Oct. 23; Serial No. 261,080; published Mar. 13, 1928. Class 6.

Specialized Apparel Stores Company, Sioux City, Iowa. Ladies' ready to wear dresses. 248,648; Oct. 23. Class 39.

Spector, Joseph, New York, N. Y. Safes and metal filing cabinets and closets. 248,443; Oct. 23; Serial No. 263,835; published Aug. 14, 1928. Class 25.

Splendid Chemical Products Manufacturing Co. (See Petchelis, Stephen M.)

Stamford Wall Paper Company, Incorporated, Stamford, Conn. Wall paper. 248,559; Oct. 23; Serial No. 267,323; published Aug. 14, 1928. Class 37.

Standard Cigar Company, Pittsburgh, Pa. Cigars. 248,499; Oct. 23; Serial No. 269,041; published Aug. 14, 1928. Class 17.

Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils. 248,399; Oct. 23; Serial No. 255,079; published Aug. 7, 1928. Class 15.

Stanley Works, The, New Britain, Conn. Window-sash fasteners, latches, bolts, etc. 248,624; Oct. 23; Serial No. 268,520; published Aug. 14, 1928. Class 25.

Steelcraft Coverator Co., Inc., Brooklyn and New York, N. Y. Radiator enclosures. 248,564; Oct. 23; Serial No. 267,217; published Aug. 14, 1928. Class 32.

Stillwater Remedy Co., The. (See Murphy, Raymond O.)

Stoody Company, Whittier, Calif. Monthly publication. 248,541; Oct. 23; Serial No. 266,154; published Aug. 7, 1928. Class 38.

Strathmore Paper Company, Mittineague, Mass. Paper. 248,580; Oct. 23; Serial No. 263,233; published Aug. 14, 1928. Class 37.

Surface Combustion Company, Inc., The, Toledo, Ohio. Industrial gas and oil heating furnaces and parts therefor. 248,568; Oct. 23; Serial No. 266,838; published Aug. 14, 1928. Class 34.

Swanson, George O., Cleveland, Ohio. Daily comic strip in newspapers and periodicals. 248,631; Oct. 23; Serial No. 268,403; published Aug. 7, 1928. Class 38.

Swift Canadian Company, Limited, Toronto, Ontario, Canada. Bacon. 248,454; Oct. 23; Serial No. 267,873; published Aug. 14, 1928. Class 46.

Tau Kappa Epsilon Fraternity, Lombard, Ill. Publication. 248,636; Oct. 23; Serial No. 268,324; published Aug. 14, 1928. Class 38.

Temmler-Werke Vereinigte Chemische Fabriken Hermann Temmler, Berlin-Johannisthal, Germany. Medical preparation. 248,463; Oct. 23; Serial No. 259,976; published July 24, 1928. Class 6.

Thomas Agency, The, Chicago, Ill. Golf balls. 248,447; Oct. 23; Serial No. 267,811; published Aug. 7, 1928. Class 22.

Thoroughbred Record Company, The, Lexington, Ky. Weekly journal. 248,628; Oct. 23; Serial No. 268,471; published Aug. 7, 1928. Class 38.

Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Lubricating oils and greases, gasoline, etc. 248,570; Oct. 23; Serial No. 266,842; published Aug. 7, 1928. Class 15.

Toledo Scale Company, Toledo, Ohio. Weighing scales and machines, counting machines, etc. 248,539; Oct. 23; Serial No. 266,057; published Aug. 14, 1928. Class 26.

Towle Maple Syrup Company, The, St. Paul, Minn., assignor to The Log Cabin Products Company, New York, N. Y. Blend of cane and maple syrups. 71,654; renewed Dec. 8, 1928.

Uff, Ernest, Chester, Pa. Beam heads. 248,616; Oct. 23; Serial No. 268,257; published Aug. 14, 1928. Class 23.

United States Foil Co., Louisville, Ky. Metallic sheet material. 248,410; Oct. 23; Serial No. 268,067; published Aug. 7, 1928. Class 14.

United States Gypsum Company. (See King, J. B., & Co., assignor.)

Universal Road Machinery Co., Kingston, N. Y. Road-building and quarry-equipment. 248,577; Oct. 23; Serial No. 263,568; published Aug. 14, 1928. Class 23.

Vinick, Nell, New York, N. Y. Magazine articles. 248,579; Oct. 23; Serial No. 263,241; published Aug. 7, 1928. Class 38.

Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Educational advertisements. 248,587; Oct. 23; Serial No. 262,537; published Aug. 7, 1928. Class 38.

Vitamins Limited, assignor to Vitamins (1928) Limited, London, England. Flour meal and foodstuffs made therefrom. 248,394; Oct. 23; Serial No. 257,517; published July 31, 1928. Class 46.

Wadsworth, Howland & Co. Incorporated, Boston, Mass. Varnishes and paint enamels. 248,409; Oct. 23; Serial No. 268,069; published Aug. 7, 1928. Class 16.

Wagner, Günther, Hanover, Germany. Water color for printing from wood blocks and linoleum cuts. 248,529; Oct. 23; Serial No. 263,572; published Aug. 14, 1928. Class 16.

Wales Novelties Corporation, New York, N. Y. Friction cigar and cigarette lighters. 248,565; Oct. 23; Serial No. 267,168; published Aug. 14, 1928. Class 34.

Walker, George L., doing business as The G. L. Walker Company, Easton, Md. Candy. 248,477; Oct. 23; Serial No. 245,875; published Aug. 14, 1928. Class 46.

Watson, C. D. & R. W., Joplin, Mo. Chocolate-covered potato chips. 248,595; Oct. 23; Serial No. 261,155; published Aug. 14, 1928. Class 46.

Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. 248,637; Oct. 23; Serial No. 266,066; published July 10, 1928. Class 39.

Weinberg, Ph., & Sons, New York, N. Y. Suits for men and young men. 248,642; Oct. 23. Class 39.

Western Flour Mills. (See International Milling Company.)

Widlar Company, The, Cleveland, Ohio. Pickles, condiments. 248,527; Oct. 23; Serial No. 264,624; published Aug. 14, 1928. Class 46.

Wilfred Laboratories, Inc., New York, N. Y. Toilet preparations. 248,484; Oct. 23; Serial No. 232,110; published July 24, 1928. Class 6.

Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 248,501–2; Oct. 23; Serial Nos. 269,011–12; published Aug. 7, 1928. Class 22.

Wimbar, Inc., New York, N. Y. Golf irons and golf clubs. 248,530; Oct. 23; Serial No. 263,249; published July 31, 1928. Class 22.

Winsten, Jules N., doing business as Drive-O-Meter Company, New York, N. Y. Game device for the game of golf. 248,574; Oct. 23; Serial No. 267,623; published Aug. 7, 1928. Class 22.

Women's Wear Company, New York, N. Y. Title for publication section. 248,578; Oct. 23; Serial No. 263,526; published Aug. 14, 1928. Class 38.

Woolnough, F. W., Co., Inc., Brooklyn, N. Y. Toy dogs. 248,599; Oct. 23; Serial No. 268,128; published Aug. 7, 1928. Class 22.

X-It Laboratories. (See Griffis, W. F.)

Younglove Grocery Co., Tacoma, Wash. Canned peas. 248,509; Oct. 23; Serial No. 268,832; published Aug. 14, 1928. Class 46.

Zimmer Sweeping Compound Co., Minneapolis, Minn. Sweeping compound. 248,627; Oct. 23; Serial No. 268,476; published Aug. 14, 1928. Class 4.

Zulu Toy Manufacturing Company, Inc., Battle Creek, Mich. Board game. 248,548; Oct. 23; Serial No. 266,634; published Aug. 7, 1928. Class 22.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Anderson, Tate, Kansas City, Mo. Kof-No-Mor. For Cough Remedy. 34,807; Oct. 23.

Aromint Corporation, Cincinnati, Ohio. Arominta. For Candy. 34,808; Oct. 23.

Blue Anchor Malt Distributing Company of America. (See Kasser, Herman.)

California Grape Products Company, Ukiah and Delano, Calif., and New York, N. Y. Caligrapo. For Grapes. 34,809; Oct. 23.

Chatterton & Son, Lansing, Mich., and Toledo, Ohio. Chat's Best. For Lentils. 34,810; Oct. 23.

Chatterton & Son, Lansing, Mich., and Toledo, Ohio. Chat's Best. For Split Peas. 34,811; Oct. 23.

Chula Vista Citrus Association, Chula Vista, Calif. Pontiac. For Lemons. 34,812; Oct. 23.

Colonial Can Co., Boston, Mass. Principessa di Venezia. For Salad Oil. 34,813; Oct. 23.

Commercial Creamery Company, Spokane, Wash. Medo-Maid Eggs. For Eggs. 34,814; Oct. 23.

Commercial Creamery Company, Spokane, Wash. Blue Hen Eggs. For Eggs. 34,815; Oct. 23.

Continental Credit Corporation, doing business as Schweizer Fruit Products, Chicago, Ill. J-L-E Bread Spread. For Fruit Concentrate. 34,816; Oct. 23.

Continental Credit Corporation, doing business as Schweizer Fruit Products, Chicago, Ill. J-L-E. For Fruit Concentrate. 34,817; Oct. 23.

Frisch, Emile, Chicago, Ill. Frisch Process. For Bread. 34,818; Oct. 23.

Gane Brothers & Lane, Incorporated, Chicago, Ill. Yes. For Glue. 34,819–20; Oct. 23.

Golden Rule Shoe Company. (See Meyer, Frank C., Company, Inc., assignor.)

Gross, Alexander S., Inc., New York, N. Y. Mark of Integrity. For Ladies' and Misses' Dresses. 34,821; Oct. 23.

Gross, Alexander S., Inc., New York, N. Y. Merit the Standard. For Ladies' and Misses' Dresses. 34,822; Oct. 23.

Guntrath-Lorenzen Co., Chicago, Ill. Fluf-It. For Cake-Flour Preparation. 34,823; Oct. 23.

Hills Brothers Company, The, New York, N. Y. Monogram Dates. For Dates. 34,824; Oct. 23.

Ingersoll, Charles J., Wink, Tex. New Life for Auto Tops. For Dressing for Auto Tops. 34,825; Oct. 23.

International Trading Co., Los Angeles, Calif. Real-Lite. For Christmas-Tree Lighting Sets. 34,826; Oct. 23.

Johnson, Cassius L., Rockford, Ill. Dr. Johnson's Anti-Flu-Rub. For Medicinal Preparation. 34,827; Oct. 23.

Kasser, Herman, doing business as The Blue Anchor Malt Distributing Company of America, Philadelphia, Pa. Blue Anchor Malt Syrup. For Malt Syrup. 34,828; Oct. 23.

Klauber Wangenheim Co San Diego, Calif. Silvergate. For Canned Corn. 34,829; Oct. 23.

Klauber Wangenheim Co., San Diego, Calif. Point Loma. For Canned Corn. 34,830; Oct. 23.

Klauber Wangenheim Co., San Diego, Calif. Pay Day. For Tomatoes with Purée from Trimmings. 34,831; Oct. 23.
Love's Biscuit & Bread Company, Honolulu, Hawaii. Love's Real Hawaiian Fruit Cakes. For Fruit Cake. 34,832; Oct. 23.
McFarlane, Elizabeth B., Detroit, Mich. Dix. For Dessert Powders. 34,833; Oct. 23.
Meyer, Frank C., Company, Inc., New York, N. Y., assignor to Golden Rule Shoe Company, Lynn, Mass. Golden Rule Shoe. For Footwear. 34,834; Oct. 23.
Milford Canning Company, The, Milford, Ill. Milford. For Canned Corn. 34,835; Oct. 23.
Moceo, Benedict, San Jose, Calif. Falstaff. For Pears. 34,836; Oct. 23.
Musac, Paul L., Long Beach, Calif. St. John's Bread. For Bread. 34,837; Oct. 23.
Nesbitt Fruit Products, Inc., Los Angeles, Calif. Old Repeat. For Soft Drinks. 34,838; Oct. 23.
Perry, Joseph E., New Bedford, Mass. Vinho-Ferro E Quina. For Tonic. 34,839; Oct. 23.
Rochester Bread Company, The, Rochester, Minn. Star. For Bread. 34,840; Oct. 23.
San Dimas Orange Growers Association, San Dimas, Calif. El Capitan. For Fresh Oranges. 34,841; Oct. 23.
Sauer, Theodor, Co., New York, N. Y. The Table that Opens and Closes like a Drawer. For Extension Tables. 34,842; Oct. 23.
Schweizer Fruit Products. (See Continental Credit Corporation.)
Sutherland Paper Company, The, Kalamazoo, Mich. Honey Girl. For Butter. 34,843; Oct. 23.
Vanderbilt, Lucretia, Inc., Bridgeport, Conn. A Face Powder (With Puff) by Lucretia Vanderbilt. For Face Powder. 34,844; Oct. 23.
Vanderbilt, Lucretia, Inc., Bridgeport, Conn. A Fadeless Lipstick by Lucretia Vanderbilt. For Lip Sticks. 34,845; Oct. 23.
Vanderbilt, Lucretia, Inc., Bridgeport, Conn. A Miniature Presentation by Lucretia Vanderbilt. For Cosmetics. 34,846; Oct. 23.
Vanderbilt, Lucretia, Inc., Bridgeport, Conn. A Concentrated Extract by Lucretia Vanderbilt. For Perfume. 34,847; Oct. 23.
Vanderbilt, Lucretia, Inc., Bridgeport, Conn. A Triple Compact (Powder-Rouge-Lipstick) by Lucretia Vanderbilt. For Compacts. 34,848; Oct. 23.
Vanderbilt, Lucretia, Inc., Bridgeport, Conn. A Double Compact (Powder-Rouge) by Lucretia Vanderbilt. For Compacts. 34,849; Oct. 23.
Vanderbilt, Lucretia, Inc., Bridgeport, Conn. A Face Powder (and Puff) by Lucretia Vanderbilt. For Face Powder. 34,850; Oct. 23.
Vanderbilt, Lucretia, Inc., Bridgeport, Conn. A Concentrated Extract by Lucretia Vanderbilt. For Perfume. 34,851; Oct. 23.
Van Dyke Chemical Company, Inc., Philadelphia, Pa. Results 'Pilgrims of the Night.' For Laxative. 34,852; Oct. 23.
Vegetable Products Corporation, Los Angeles, Calif. Thomas' Vegetized Whole Wheat. For Bread. 34,853; Oct. 23.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Dry Milk Institute, Inc., Chicago, Ill. Dairy Bread Builds Strong Muscles. For Bread. 11,272; Oct. 23.
American Dry Milk Institute, Inc., Chicago, Ill. The Foundation of Robust Health Dairy Bread Milk Sugar Milk Protein Milk Minerals Get a Loaf of Dairy Bread Today! For Bread. 11,273; Oct. 23.
American Dry Milk Institute, Inc., Chicago, Ill. Dairy Bread Rich in Milk Minerals Milk Proteins Milk Sugar You'll Like its Old Time Flavor! For Bread. 11,274; Oct. 23.
American Dry Milk Institute, Inc., Chicago, Ill. Health in every Slice Dairy Bread. For Bread. 11,275; Oct. 23.
American Dry Milk Institute, Inc., Chicago, Ill. For Healthier Youngsters! Dairy Bread. For Bread. 11,276; Oct. 23.
American Dry Milk Institute, Inc., Chicago, Ill. Makes Delicious Crispy Evenly Browned Toast. For Bread. 11,277; Oct. 23.
Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Beauty for You in the Continental Manner. For Venetian Toilet Preparations. 11,278; Oct. 23.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum. Licorice Flavored. For Chewing Gum. 11,279; Oct. 23.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Spearmint. For Chewing Gum. 11,280; Oct. 23.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Wintergreen. For Chewing Gum. 11,281; Oct. 23.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Always Refreshing. For Chewing Gum. 11,282; Oct. 23.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Fruit Flavored. For Chewing Gum. 11,283; Oct. 23.
Buchman Manufacturing Company, Carnegie, Pa. Airline Pillows. For Pillows. 11,284; Oct. 23.
Cleveland Heater Company, The, Cleveland, Ohio. The New Rex-Patrol Automatic Water Heater. For Rex-Patrol Water Heaters. 11,285; Oct. 23.
Cleveland Heater Company, The, Cleveland, Ohio. Revolutionary and Simplified. For Spee-Dee Boilers. 11,286; Oct. 23.
Cleveland Heater Company, The, Cleveland, Ohio. Now, Another New Achievement. For Rex-Patrol Water Heaters. 11,287; Oct. 23.
Cleveland Heater Company, The, Cleveland, Ohio. New Engineering Discoveries give Amazing Results. For Spee-Dee Boilers. 11,288; Oct. 23.
Cohn, Jack, doing business as Fitsrite Products Co., New York, N. Y. Fitsrite Ear Drum Protectors. For Ear-Drum Protectors. 11,289; Oct. 23.
Cream of Wheat Co., Minneapolis, Minn. An authoritative Review of the Latest Findings in Nutrition. For Wheat Breakfast Food. 11,290; Oct. 23.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Many Million Hands Use Dixon's Ti-Con-Der-Oga every Day. It Adapts Itself to every Writing Style. For Pencils. 11,291; Oct. 23.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Strong & Firm. For Pencils. 11,292; Oct. 23.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Writing Ease. For Pencils. 11,293; Oct. 23.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Its Rich Black Lines, Easily Written and Easily Read, have made Dixon's Ti-Con-Der-Oga America's Favorite Five-Cent Pencil. For Pencils. 11,294; Oct. 23.
Fitsrite Products Co. (See Cohn, Jack.)
Goodyear Tire & Rubber Company Inc., The, Akron, Ohio. Good(Wingfoot)Year More People Ride on Goodyear Tires than on any other Kind. For Tires Composed Wholly or in Part of Rubber. 11,295; Oct. 23.
Heinz, H. J., Company, doing business under the name of Heinz, Pittsburgh, Pa. On the Men Depends the Success of your Party. For Heinz "57" Varieties. 11,296; Oct. 23.
Heinz, H. J., Company, Pittsburgh, Pa. The Spicing is the Secret. For Tomato Ketchup. 11,297; Oct. 23.
Jantzen Knitting Mills, Portland, Oreg. All Together for More Swimming Suit Business. For Swimming Suits. 11,298; Oct. 23.
Southeastern Products Company, Birmingham, Ala. Packing Thermometer. For Packing. 11,299; Oct. 23.
Zell Bros. & Co., Portland, Oreg. Sure-Step. For Optical Lenses. 11,300; Oct. 23.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adams Bag Company, The, Chagrin Falls, Ohio. Polished paper sacks and bags. 270,220; Oct. 23. Class 2.
Adora Knitwear Co., Inc., New York, N. Y. Knitted wear for infants and children. 268,129; Oct. 23. Class 39.
Al Sirat Grotto Mystic Order Veiled Prophets of the Enchanted Realm, Cleveland, Ohio. Magazine. 272,450; Oct. 23. Class 38.
Alligator Company, The, St. Louis, Mo. Coats, jackets, pants, etc. 244,484; Oct. 23. Class 39.
American Artisan & Hardware Record, Inc., Chicago, Ill. Magazine. 268,577; Oct. 23. Class 38.
American Chicle Company, Long Island City, New York, N. Y. Chewing gum. 272,245; Oct. 23. Class 46.
American Flange & Manufacturing Co., Chicago, Ill. Bung-receiving bushings. 269,932; Oct. 23. Class 13.
American Lean Company, Wilmington, Del., and Philadelphia, Pa. Publication. 270,163; Oct. 23. Class 38.
Amform. (See Lacks, Felix A.)

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Amsterdam Broom Co., Amsterdam, N. Y. Brooms. 271,634; Oct. 23. Class 29.
Amtorg Trading Corporation, New York, N. Y. Matches. 272,122; Oct. 23. Class 9.
Armstrong Cator Company, The, Baltimore, Md. Hats and hat linings. 251,943; Oct. 23. Class 39.
Arnheimer Inc., New York, N. Y. Coats, gowns, jackets, scarfs, etc. 270,004; Oct. 23. Class 39.
Arrowsmith Manufacturing Company, New York, N. Y. Supports for the arches and other parts of the feet. 192,884; Oct. 23. Class 44.
Austin Shoe Company, San Francisco, Calif. Leather shoes. 269,763; Oct. 23. Class 39.
Aviation Food Manufacturing Co. (See Georgiades, George A.)
Bacon, Stickney & Co., Inc., Albany, N. Y. Coffee, teas, and spices. 266,119; Oct. 23. Class 46.
Badger Fire Extinguisher Company, Boston, Mass. Portable fire extinguishers in the nature of containers for chemicals. 243,841; Oct. 23. Class 23.
Badger Fire Extinguisher Company, Boston, Mass. Portable fire extinguishers. 243,842; Oct. 23. Class 23.
Bamberger-Reinthal Company, The, Cleveland, Ohio. Caps, mufflers, skirts, and sweaters. 260,670; Oct. 23. Class. 39.
Barrett Company, The, New York, N. Y. Fertilizers. 269,820; Oct. 23. Class 10.
Barrett Company, The, New York, N. Y. Fertilizers. 270,410; Oct. 23. Class 10.
Bassick Manufacturing Company, The, Chicago, Ill. Periodicals. 271 955; Oct. 23. Class 38.
Bay Chemical Company, Inc., New Orleans, La. Stock and poultry food. 272,125; Oct. 23. Class 46.
Bayley Blower Company, Milwaukee, Wis. Ventilating fans. 270,664; Oct. 23. Class 34.
Bishop, Thomas B., Company, San Francisco and San Roman, Calif. Fresh fruit. 271,286; Oct. 23. Class 46.
Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet sweepers. 271,591; Oct. 23. Class 23.
Blossom-Kones Chop. (See Love, Joseph M.)
Boller, Ivan E., Brooklyn, N. Y. Pictorial illustrations, contributions to periodicals, newspapers, and books. 268,907; Oct. 23. Class 38.
Borgfeldt, Geo., & Co., New York, N. Y. Dolls. 271,374; Oct. 23. Class 22.
Borlck, Frank V., New York, N. Y. Pleasure boats. 271,592; Oct. 23. Class 19.
Boyce, W. D., Company, Chicago, Ill. Magazine. 272,127; Oct. 23. Class 38.
Bruni, Hugo, Alliance, Ohio. Malt syrup. 271,472; Oct. 23. Class 46.
Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft, Berlin, Germany. Medicinal preparation. 272,129; Oct. 23. Class 6.
Caliwine Products Co., Inc., The, New York, N. Y. Grape concentrate. 270,739; Oct. 23. Class 45.
Carr, F. S., Company, Boston, Mass. Artificial leather. 268,348; Oct. 23. Class 50.
Carson Pirie Scott & Co., Chicago, Ill. Nightgowns, chemises, bloomers, etc. 267,697; Oct. 23. Class 39.
Cartwright, Inc., Minneapolis, Minn. Women's dresses. 269,635; Oct. 23. Class 39.
Chase Brass & Copper Company, Waterbury, Conn. Cigarette humidors and ash trays. 272,387; Oct. 23. Class 8.
Children's Press, The, Chicago, Ill. Dolls. 261,941; Oct. 23. Class 22.
Chrysler Corporation. (See Plymouth Motor Corporation, assignor.)
Clorox Chemical Corporation, assignor to Clorox Chemical Co., Oakland, Calif. Bleaching, cleansing, etc., compounds. 267,886; Oct. 23. Class 6.
Coddington, E. D., Manufacturing Company, North Milwaukee, Wis. Plaster. 270,415; Oct. 23. Class 12.
Collateral Bankers, Inc., New York, N. Y. Publication. 270,170; Oct. 23. Class 38.
Collins, Bettie S., doing business as Sister Betty Products Co., Lexington, Ky. Polish. 257,919; Oct. 23. Class 16.
Columbus Dental Manufacturing Co., The, Columbus, Ohio. Furnace for glazing. 261,696; Oct. 23. Class 44.
Commonwealth Shoe and Leather Company, Boston, Mass. Leather boots and shoes. 267,836; Oct. 23. Class 39.
Consolidated Millinery Company, Chicago, Ill. Hats. 252,551; Oct. 23. Class 39.
Coral Rock Ginger Ale Co., Inc., Jacksonville, Fla. Ginger ale. 272,143; Oct. 23. Class 45.
Cracker Jack Co., The, Chicago, Ill. Candy. 271,378; Oct. 23. Class 46.
Crooker, Harry L., New York, N. Y. Hot-water bottles. 272,077; Oct. 23. Class 44.
Crystal Chemical Company, Inc., The, Bronx, N. Y. Face powders. 269,395; Oct. 23. Class 6.
Curtis 1000 Incorporated, St. Paul, Minn. Envelopes. 271,170; Oct. 23. Class 37.
David & Blum, Inc., New York, N. Y. Leather gloves. Fresh dates. 270,629; Oct. 23. Class 39.
Deglet Noor Date Growers Association, The, Indio, Calif. 268,356; Oct. 23. Class 46.
Deming & Gould Co., Chicago, Ill., and South Bellingham, Wash. Canned salmon. 267,640; Oct. 23. Class 46.
Deming & Gould Co., Chicago, Ill., and South Bellingham, Wash. Canned salmon. 267,644; Oct. 23. Class 46.
Denney Tag Company, The, West Chester, Pa. Printed work tags. 271,594; Oct. 23. Class 37.
De Sanno, Albert P., jr., doing business as Albert P. de Sanno & Son, Philadelphia, Pa. Dental abrading discs and strips. 268,852; Oct. 23. Class 44.
Donelson and Poston, Memphis, Tenn. Matches. 271,595; Oct. 23. Class 9.
Donelson and Poston, Memphis, Tenn. Matches. 272,146; Oct. 23. Class 9.
Donelson and Poston, Memphis, Tenn. Cigars. 272,147; Oct. 23. Class 17.
Dunlap, Ethelbert H., doing business as Dunlap Chemical Company, Memphis, Tenn. First-aid kit. 271,236; Oct. 23. Class 44.
Economist Publishing Co., The, Chicago, Ill. Publications. 270,176; Oct. 23. Class 38.
Embosograph Corporation of America, New York, N. Y. Sign-card holders. 271,480; Oct. 23. Class 32.
Embro Import Company, New York, N. Y. Canned tomatoes. 272,149; Oct. 23. Class 46.
Endicott Johnson Corporation, Endicott, N. Y. Leather coats, vests, helmets, etc. 270,373; Oct. 23. Class 39.
Evansville Paint & Varnish Co. (See Red Spot Paint & Varnish Co.)
Everitt & Graf, Inc., Milwaukee, Wis. Ladies' hats. 270,242; Oct. 23. Class 39.
Fair Play Caramels, Inc., Johnson City, N. Y. Candy. 247,613; Oct. 23. Class 46.
Fair Play Caramels, Inc., Johnson City, N. Y. Candy. 252,696; Oct. 23. Class 46.
Fair, The, Chicago, Ill. Girls', misses', and women's boots, shoes, and oxfords. 268,342; Oct. 23. Class 39.
Fair, The, Chicago, Ill. Boys', youths', and men's boots, shoes, and oxfords. 268,343; Oct. 23. Class 39.
Fantl Brothers & Lewis, Chicago, Ill. Underwear. 261,182; Oct. 23. Class 39.
Fantl Brothers & Lewis, Chicago, Ill. Underwear. 264,091; Oct. 23. Class 39.
Firth-Sterling Steel Company, McKeesport, Pa. Metal cutting tools and dies. 270,288; Oct. 23. Class 23.
Flannocrat Mfg. Co., Inc., Buffalo, N. Y. Sport blouses. 270,632-3; Oct. 23. Class 39.
Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. Vegetable product. 264,369; Oct. 23. Class 46.
Folsom, H. & D., Arms Company, The, New York, N. Y. Fishhooks. 272,079; Oct. 23. Class 22.
Ford Motor Company, Fordson, Detroit, Mich. Belts of leather or fabric, portable tire-repair kits, gaskets, etc. 270,527; Oct. 23. Class 35.
Fox Case Corporation, New York, N. Y. Motion pictures. 271,484; Oct. 23. Class 26.
Freydberg, G., H. & E., Inc., New York, N. Y. Hats, caps, aprons, etc. 270,544; Oct. 23. Class 39.
Georgiades, George A., doing business as Aviation Food Manufacturing Co., Houston, Tex. Mayonnaise salad dressing and maple syrup. 271,696; Oct. 23. Class 46.
Gimbel Brothers, Inc., New York, N. Y.; Philadelphia, Pa.; Milwaukee, Wis.; and Pittsburgh, Pa. Dresses. 267,301; Oct. 23. Class 39.
Glaser, George, doing business as Paramount Shoe Store, Scranton, Pa. Shoes. 265,836; Oct. 23. Class 39.
Gordon Baking Company, Detroit, Mich. Cakes and cookies. 269,287; Oct. 23. Class 46.
Graf, William, doing business as Southwark Beverage & Products Co., Philadelphia, Pa. Malt syrups. 248,101; Oct. 23. Class 46.
Greenpoint Paint & Varnish Corporation, Brooklyn, N. Y. Paints and varnishes. 271,649; Oct. 23. Class 16.
Gumpert, S., Co. Inc., New York, N. Y. Cakes. 270 673; Oct. 23. Class 46.
H-G Company, Portsmouth, Va. Auto towlines. 271,601; Oct. 23. Class 7.
Hagerstown Shoe and Logging Co., The, Hagerstown, Md. Boots and shoes. 267,839; Oct. 23. Class 39.
Hansson, Elof, Gottenborg, Sweden. Paper pulp. 261,114; Oct. 23. Class 1.
Hansson, Elof, Gottenborg, Sweden. Matches. 268,359; Oct. 23. Class 9.
Havlicek & Co., Prague, Czechoslovakia. Automatic coin changers of all kinds. 271,602; Oct. 23. Class 26.
Hearn, Jas. A., & Son, New York, N. Y. Reversible fiber rugs. 272,269; Oct. 23. Class 42.
Hecht Co., The, Washington, D. C., doing business as The Hub, Baltimore, Md. Boys' suits and overcoats. 269 118; Oct. 23. Class 39.
Heddon's, James, Sons, Dowagiac, Mich. Artificial bait. 263,001; Oct. 23. Class 22.
Hickmott, R., Canning Co., San Francisco, Calif. Canned asparagus. 271,806; Oct. 23. Class 46.
Hood Rubber Company, Watertown, Mass. Rubber soles for shoes. 269,191; Oct. 23. Class 39.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, rubber overshoes, and rubber-soled canvas shoes. 270,026; Oct. 23. Class 39.
Horton Manufacturing Company, The, Bristol, Conn. Fishing rods. 271,603; Oct. 23. Class 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hub, The. (See Hecht Co., The.)
Huntoon, Cullen L., Los Angeles, Calif. Adhesive cement. 269,407; Oct. 23. Class 5.
Indahl, Bernard, doing business as Spokane Luggage Carrier Co., Spokane, Wash. Vehicle luggage carriers. 269,022; Oct. 23. Class 19.
Inland Consolidated Coal Corporation, Chicago, Ill. Coal. 267,958; Oct. 23. Class 1.
International Fire Equipment Corporation, West New Brighton, N. Y. Portable hand fire-extinguishing apparatus. 271,550; Oct. 23. Class 23.
International Safety Razor Corp., Bloomfield, N. J. Razor blades. 272,081; Oct. 23. Class 23.
Jaciel Perfumers, Inc., New York, N. Y. Tooth paste and mouth wash. 271,388; Oct. 23. Class 6.
Jacobs, W. E., Candy Co., Chicago, Ill. Candy. 272,083; Oct. 23. Class 46.
Jacoby, J., Company, Los Angeles, Calif. Belts, pajamas, shirts, etc. 266,591; Oct. 23. Class 39.
Kalalock Canning Company, Centralia, Wash. Canned clams. 271,606; Oct. 23. Class 46
Karkare Products Company, The, Lincoln, Nebr. Kits containing materials and preparations for maintaining and rejuvenating the appearance of automobiles. 261,677; Oct. 23. Class 50.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Shirts. 270,594; Oct. 23. Class 39.
Keeley's Candies, Inc., Madison, Wis. Box candy and candy packages. 266,863; Oct. 23. Class 46.
Kenny, C. D., Co., Baltimore, Md., and Indianapolis, Ind. Coffee. 271,860; Oct. 23. Class 46.
Keystone Aircraft Corp., Bristol, Pa. Flying machines. 270,707–8; Oct. 23. Class 19.
Kingsway Products, Inc., Tampa, Fla. Eggs. 271,608; Oct. 23. Class 46.
Klemm Reflector Company, Philadelphia, Pa. Light reflectors. 244,308; Oct. 23. Class 34.
Knott, Wm. T., Company Inc., New York, N. Y. Sheets, pillowcases, and sheetings. 272,280; Oct. 23. Class 42.
Kochs, Theo. A., Company, Chicago, Ill. Hairdressing. 272,285; Oct. 23. Class 6.
Kohler F. E., Company, The, Canton, Ohio. Shovels, posthole diggers, hoes, etc. 272,105; Oct. 23. Class 23.
Krasnow, J. S., Fresno, Calif. Fresh deciduous fruits. 272,287; Oct. 23. Class 46.
Lacks, Felix A., doing business as Amform, New York, N. Y. Ladies' hats and hoods. 268,500; Oct. 23. Class 39.
Lady Jane Manufacturing Co. (See Levison, Leo.)
Levison, Leo, doing business as Lady Jane Manufacturing Co., New York, N. Y. Merchandise. 269,733; Oct. 23. Class 39.
Liberty Orchards Company, Cashmere, Wash. Fruit spread. 271,861; Oct. 23. Class 46.
Lindemann, A. J., & Hoverson Co., Milwaukee, Wis. Wicks. 271,554; Oct. 23. Class 34.
Lion Chain Company, Chicago, Ill. Tire chains, parts, and fittings therefor. 271,763–4; Oct. 23. Class 13.
Lippard, Herman I., doing business as Rapitag Needle Company, Philadelphia, Pa. Needles used by hand. 262,315; Oct. 23. Class 40.
Lone Star Bag & Bagging Company, Houston, Tex. Burlap bags. 271,444; Oct. 23. Class 2.
Love, Joseph M., doing business as Blossom-Kones Chop, Sandusky, Ohio. Ice-cream confection. 270,969; Oct. 23. Class 46.
Lupton's, David, Sons Company, Philadelphia, Pa. Metal shelving. 231,682; Oct. 23. Class 12.
M. & B. Manufacturing Co., Leonia, N. J. Plumber's soil. 271,305; Oct. 23. Class 13.
Mabon Soap Co. (See Stevens, Rollin H.)
Macintosh, Richard, Los Angeles, Calif. Men's coats, pants, knicker pants, etc. 270,638; Oct. 23. Class 39.
Malone, May, Anderson, Ind. Women's dresses. 269,439; Oct. 23. Class 39.
Manniello Brothers & Mayrsohn, Inc., New York, N. Y. Fresh apples and pears. 272,044; Oct. 23. Class 46.
Marks, Louis, North Rose, N. Y. Fresh celery, carrots, and onions. 272,040; Oct. 23. Class 46.
Marlow, Alfred S., Lincoln Park, N. J. Pumps. 261,892; Oct. 23. Class 23.
Marshall Field & Company, Chicago, Ill. Gloves. 270,793; Oct. 23. Class 39.
Mather, Ethan, doing business as Raxmonia Company, Cincinnati, Ohio. Cleanser, bleacher, disinfectant, and antiseptic powder. 271,350; Oct. 23. Class 6.
Maury-Cole Company, Memphis, Tenn. Coffee. 265,671; Oct. 23. Class 46.
Mayhew Steel Products, Inc., Shellburne Falls, Mass. Regular-taper chisels, punches, pliers, etc. 265,915; Oct. 23. Class 23.
McCann, F. J., Packing Co., Inc., The, Salinas, Calif. Fresh fruits and vegetables. 271,938; Oct. 23. Class 46.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Eyewash. 263,496; Oct. 23. Class 6.
Mechanics Machine Company, assignor to Mechanics Universal Joint Company, Rockford, Ill. Universal joints and change-speed transmissions. 244,709; Oct. 23. Class 23.
Meier & Frank Co., Portland, Oreg. Walnuts. 251,849; Oct. 23. Class 46.
Miller Becker Company, Cleveland, Ohio. Beverages. 269,796; Oct. 23. Class 45.
Miller, I., & Sons, Inc., New York and Long Island City, N. Y. Hosiery. 270,493; Oct. 23. Class 39.
Mitchell, Allen R., & Son, Philadelphia, Pa. Woolen and worsted goods and combinations. 271,974; Oct. 23. Class 42.
Mitchell Silliman Company, Salinas, Calif. Fresh vegetables. 272,296; Oct. 23. Class 46.
Moss, Edward A., Cleveland, Ohio. Reflector signs. 270,712; Oct. 23. Class 50.
Myers, Hubert A., doing business as Hubert A. Myers Candy Co., Toledo, Ohio. Toys formed of hard candy and chewing gum. 265,852; Oct. 23. Class 46
Nacken, Walther, Gruna, near Chemnitz, Germany. Wire pulling and drawing machines, spooling machines, etc. 253,196; Oct. 23. Class 23.
National Grocery Company, Jersey City, N. J. Tea. 272,084; Oct. 23. Class 46.
National Road Marker, Inc., Chicago, Ill. Road markers. 270,857–8; Oct. 23. Class 50.
Natures Rival Co., Chicago, Ill. Combination of brassière, girdle, and teddy. 267,270; Oct. 23. Class 39.
Newcomer Glove Company, The, Toledo, Ohio. Gloves. 264,118; Oct. 23. Class 39.
New Jersey Zinc Company, The, Newark, N. J. Zinc-base alloy. 272,047; Oct. 23. Class 14.
Newport Manufacturing Company, Carrollville, Wis. Photographic chemicals, dyestuffs, deca-hydronaphthalene. 266,393; Oct. 23. Class 6.
North Dighton Stove Company, Taunton, Mass. Stoves and ranges. 269,309; Oct. 23 Class 34.
Nunnally & McCrea Company, Atlanta, Ga. Trousers for men and boys. 270,091; Oct. 23. Class 39.
Nu-Su Products Company. (See Werschky, Robert.)
Ocean Bathing Suit Co., The, New York, N. Y. Bathing suits. 263,558; Oct. 23. Class 39.
Old Ben Coal Corporation, Chicago, Ill. Coal. 270,974; Oct. 23. Class 1.
Olson, Edward, Brooklyn, N. Y. Knitted woolen vest. 271,265; Oct. 23. Class 39.
Orchid Importing Corporation, New York, N. Y. Bodies for ladies' hats. 249,802; Oct. 23. Class 39.
Pacific Asbestos & Supply Company, Portland, Oreg. Leather belting. 255,721; Oct. 23. Class 35.
Palmisani, Giosué, doing business as G. Palmisani & Company, New York, N. Y. Olive oil. 260,907; Oct. 23. Class 46.
Paramount Shoe Store. (See Glaser, George.)
Parfumerie et Savonnerie Gilot, Societe Anonyme, Paris, France. Insecticides. 272,227; Oct. 23. Class 6.
Parrish, Amos, & Co., New York, N. Y. Magazine. 271,407; Oct. 23. Class 38.
Parrott, Rowland M., Raleigh, N. C. Nameograph impression paper. 253,386; Oct. 23. Class 37.
Penie, Peacock and Kerr of New York, New York, N. Y. Coal. 269,253; Oct. 23. Class 1.
Peck & Peck, New York, N. Y. Outer garments. 271,312; Oct. 23. Class 39.
Perrin Glove Company, Inc., New York, N. Y. Leather gloves. 263,342; Oct. 23. Class 39
Perrin Glove Company, Inc., New York, N. Y. Gloves. 264,045; Oct. 23. Class 39.
Pharmacy Products, Inc., Hollywood, Calif. Bactericidal and germicidal antiseptic solution. 272,348; Oct. 23. Class 6.
Pierre Process, Inc., New York, N. Y. Solution used to wave straight human hair. 264,736; Oct. 23. Class 6.
Plymouth Motor Corporation, assignor to Chrysler Corporation, Detroit, Mich. Automobiles and their structural parts. 268,114; Oct. 23. Class 19.
Puritan Candy Company, Milwaukee, Wis. Candy. 271,509; Oct. 23. Class 46.
Pyridium Corporation, The, Nepera Park, N. Y. Medicines. 272,349; Oct. 23. Class 6.
Ragg, William, Sheffield, England. Safety-razor blades. 271,904; Oct. 23. Class 23.
Rapitag Needle Company. (See Lippard, Herman I.)
Raxmonia Company. (See Mather, Ethan.)
Red Spot Paint & Varnish Co., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Cleaner, oil soaps, metal polish, and nickel paste. 267,388; Oct. 23. Class 4.
Richey, Alfred J., Miami, Fla. Fruits and vegetables and guava jelly. 271,824; Oct. 23. Class 46.
Roach Paper Company, Little Rock, Ark. Writing paper. 260,409; Oct. 23. Class 37.
Roberts Engineering Co., Portland, Oreg. Oil burners. 271,622; Oct. 23. Class 34.
Robertson Brothers Company, South Bend, Ind. Hosiery, suits, coats, etc. 264,480; Oct. 23. Class 39.
Rochester Manufacturing Co., Los Angeles, Calif. Trousers and knickers. 258,604; Oct. 23. Class 39.
Rodic Rubber Co., Garwood, N. J. Typewriter platens. 259,135; Oct. 23. Class 23.
Rosen Bros. & Pincus, New York, N. Y. Canned fish, fruit, vegetables, and pickles. 271,944; Oct. 23. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rumford Chemical Works, Providence, R. I. Dough conditioner and gluten developer. 269,608; Oct. 23. Class 46.
Safety Glass and Xetal Products, Limited, Stapleford, England. Boots, shoes, and slippers. 249,927; Oct. 23. Class 39.
Sahadi, A., & Co., Inc., New York, N. Y. Candy confection. 270,510; Oct. 23. Class 46.
Sal-Ora Chemical Company, Minneapolis, Minn. Powder mouth wash and gargle. 267,083; Oct. 23. Class 6.
Scott and Fetzer Company, The, Cleveland, Ohio. Electric vacuum cleaners. 269,746; Oct. 23. Class 23.
Seaport Coffee Co., Inc., Houston, Tex. Coffee. 271,710; Oct. 23. Class 46.
Seiberling Latex Products Company, Akron and Barberton, Ohio. Druggists' rubber sundries. 270,397; Oct. 23. Class 44.
Seiberling Latex Products Company, Akron and Barberton, Ohio. Druggists' rubber sundries. 270,512; Oct. 23. Class 44.
Sexton, S. A., Exeter, Calif. Fresh deciduous fruits. 271,946; Oct. 23. Class 46.
Shaft-Pierce Shoe Company, Faribault, Minn. Shoes. 270,211; Oct. 23. Class 39.
Shartenberg & Robinson Co., New Haven, Conn. Leather shoes. 270,804; Oct. 23. Class 39.
Shea, Gladys M., doing business as Glen Marlanne Shea, Chicago, Ill. Sanitary belts and parts thereof. 271,317; Oct. 23. Class 44.
Sister Betty Produce Co. (See Collins, Bettie S.)
Skipsey, Allon, St. Albans, England. Carpet or rug lining of a rubber-treated material. 266,561; Oct. 23. Class 50.
Southwark Beverage & Products Co. (See Graf, William.)
Spalding, A. G., & Bros., New York, N. Y. Iron golf clubs. 270,214; Oct. 23. Class 22.
Spokane Luggage Carrier Co. (See Indahl, Bernard.)
Spruance, Gilbert, Company, The, Philadelphia, Pa. Paint enamels and flat paints. 271,436; Oct. 23. Class 16.
Standard Tilton Milling Co., St. Louis, Mo., Dallas, Tex., and Alton, Ill. Wheat flour. 260,857; Oct. 23. Class 46.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. White mineral oil. 266,765; Oct. 23. Class 6.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Sprayers for insecticide and germicide sprays. 272,059; Oct. 23. Class 23.
Standish, Eula S., Providence, R. I. Brassières, bandeaux, and corselets. 269,266; Oct. 23. Class 39.
Steelman & Archer, Philadelphia, Pa. Varnish stains and varnishes. 271,323; Oct. 23. Class 16.
Steinkraus, H. F., doing business as Steinkraus Mercantile Co., Bertha, Minn. Wheat flour. 271,950; Oct. 23. Class 46.
Stevens, Rollin H., doing business as Mabon Soap Co., Detroit, Mich. Toilet soaps. 264,921; Oct. 23. Class 4.
Sunset Gold Packing Company, Oakland, Calif. Pure citrus-fruit juices. 270,356; Oct. 23. Class 46.
Tauber Co., The, Uncasville, Montville, Conn. Food-beverage powder. 265,456; Oct. 23. Class 46.
Taylor-Bramley Company, The, Chicopee Falls, Mass. Infants' and children's clothing. 270,449; Oct. 23. Class 39.
Tiffany & Company, New York, N. Y. Candlesticks and candelabra. 267,158; Oct. 23. Class 34.
Tischler, John, East Port Chester, Conn. Bronze, copper, and brass polish. 269,997; Oct. 23. Class 4.
Togstad, C. I., Company, The, Kokomo, Ind. Astringents, bleach and beauty creams, etc. 269,375; Oct. 23. Class 6.
Town Publishing Company, The, Cleveland, Ohio. Periodical. 272,316; Oct. 23. Class 38.
Troan, Chester, Los Angeles, Calif. Correspondence envelopes and printed letterheads. 267,521; Oct. 23. Class 37.
Tropical Paint & Oil Company, The, Cleveland, Ohio. Enamel. 272,066; Oct. 23. Class 16.
Tucker, Clarence E., doing business as The Tucker Co., Dallas, Tex. Chemical cleaner. 263,445; Oct. 23. Class 4.
Turner, W. & A. J., Ltd., Ipswich, England. Leggings, gaiters, and spats. 269,334; Oct. 23. Class 39.
Twin City Wholesale Grocer Co., St. Paul, Minn. Canned fruits and vegetables, coffee, cereals, etc. 238,628; Oct. 23. Class 46.
United States Foil Company, Louisville, Ky. Metal foil, metal-foil sheets, etc. 271,153; Oct. 23. Class 14.
V & S Pants Co., San Antonio, Tex. Men's breeches, trousers, coats, etc. 270,101; Oct. 23. Class 39.
Vanc Chemical Company, Camden, N. J. Antiseptic tablets. 272,234; Oct. 23. Class 6.
Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Tonic. 267,908; Oct. 23. Class 6.
Warford Electric, Inc., New York, N. Y. Radio amplifying units, battery eliminators, and loud speakers. 252,176; Oct. 23. Class 21.
Wash-A-Bill Cap Co., South Bend, Ind. Caps. 270,733; Oct. 23. Class 39.
Washburn Company, The, Worcester, Mass. Strainers. 270,903; Oct. 23. Class 13.
Washburn Crosby Company, Minneapolis, Minn. Stock and poultry feed. 246,139; Oct. 23. Class 46.
Washington Canners Co-Operative, Vancouver, Wash. Canned fruits. 271,219; Oct. 23. Class 46.
Washington Furniture Manufacturing Company, Inc., Seattle, Wash. Mattresses and upholstered furniture. 270,361; Oct. 23. Class 32.
Waterman, L. E., Company, New York, N. Y. Writing inks. 268,192; Oct. 23. Class 11.
Weber, Frank C., & Company, Chicago, Ill. Cleanser. 256,026; Oct. 23. Class 4.
Weissman, Lichtenstein & Schertzer, New York, N. Y. Lambskins. 266,902; Oct. 23. Class 1.
Wells-Lamont Manufacturing Co., Minneapolis, Minn. Workingmen's gloves. 269,009; Oct. 23. Class 39.
Wenatchee District Co-Operative Association, Wenatchee, Wash. Fresh fruit. 271,098–9; Oct. 23. Class 46.
Werschky, Robert, doing business as Nu-Su Products Company, Denver, Colo. Ready-mixed paints and varnishes. 271,327; Oct. 23. Class 16.
Western Pharmacal Company, Salt Lake City, Utah. Granular effervescent urinary antiseptic. 272,014; Oct. 23. Class 6.
Western Pharmacal Company, Salt Lake City, Utah. Antiseptic powder. 272,015; Oct. 23. Class 6.
Whole Grain Wheat Company, Chicago, Ill. Canned food product. 209,516; Oct. 23. Class 46.
Williamson Candy Company, Chicago, Ill. Candy. 272,088; Oct. 23. Class 46.
Wolf & Dessauer Company, Fort Wayne, Ind. Hosiery. 271,283; Oct. 23. Class 39.
Wyandotte Olive Growers Association, Oroville, Calif. Canned olives. 271,585; Oct. 23. Class 46.
Ye Pilgrim Rug Shop, Long Beach, Calif. Fabric stamped or stenciled for embroidery or as a backing. 267,732; Oct. 23. Class 40.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Kid, Glazed. McNeely & Price. 71,715; renewed Dec. 15, 1928.

CLASS 2.

Cooperage. Pioneer Cooperage Co. 248,442; Oct. 23; Serial No. 267,601; published Aug. 14, 1928.
Cooperage. Pioneer Cooperage Co. 248,444; Oct. 23; Serial No. 267,602; published Aug. 14, 1928.

CLASS 3.

Bags, Hand. L. J. & M. Lefkowitz, Inc. 248,600; Oct. 23; Serial No. 268,103; published July 31, 1928.
Suitcases. Horton & Hubbard Mfg. Co. 248,617; Oct. 23; Serial No. 268,284; published Aug. 7, 1928.
Trunks, traveling bags, etc. Kemitex Products Company. 248,481; Oct. 23; Serial No. 240,861; published Aug. 7, 1928.

CLASS 4.

Cleaner for bathtubs, lavatories, etc. H. A. Porter. 248,558; Oct. 23; Serial No. 267,314; published Aug. 7, 1928.
Cleaning compound. C. A. Lucier. 248,603; Oct. 23; Serial No. 268,046; published Aug. 7, 1928.
Compound, Sweeping. Zimmer Sweeping Compound Co. 248,627; Oct. 23; Serial No. 268,476; published Aug. 14, 1928.
Dressing, Waterproof auto top. R. W. Bowler. 248,515; Oct. 23; Serial No. 268,074; published Aug. 14, 1928.
Liquids and powders, Lixivial. Société Anonyme Etablissements Mulvidson. 248,398; Oct. 23; Serial No. 255,357; published July 17, 1928.
Polish, shoe polish and cream, dry-cleaning paste, etc., Silver. S. M. Petchelis. 248,441; Oct. 23; Serial No. 263,970; published Aug. 7, 1928.
Preparation for refinishing leather, Liquid. Peerless Products Corporation. 248,472; Oct. 23; Serial No. 249,675; published Aug. 14, 1928.
Soap. Procter & Gamble Company. 248,425; Oct. 23; Serial No. 265,929; published Aug. 7, 1928.
Soaps. P. P. Millhens. 248,478; Oct. 23; Serial No. 242,107; published Aug. 7, 1928.
Soaps. Naamlooze Vennootschap International Perfumery Company. 248,632; Oct. 23; Serial No. 268,381; published Aug. 14, 1928.

CLASS 5.

Glue. I. F. Laucks, Inc. 248,483; Oct. 23; Serial No. 233,615; published July 31, 1928.

CLASS 6.

Analgesic and counterirritant. Sydney Ross Co. 248,586; Oct. 23; Serial No. 262,778; published July 24, 1928.
Astringents, bleach and beauty creams, dry rouges, etc. French Cosmetic Mfg. Co. 248,647; Oct. 23.
Astringents, bleach creams, dry rouges, etc. A. P. Babcock Company. 248,438; Oct. 23; Serial No. 264,489; published Aug. 7, 1928.
Balsam. F. Ad. Richter & Co. of New York. 248,615; Oct. 23; Serial No. 268,311; published Aug. 7, 1928.
Balsam, Foot. H. F. Montagna. 248,590; Oct. 23; Serial No. 261,640; published Aug. 7, 1928.
Calcium carbid. American Carbolite Company. 72,782; renewed Feb. 23, 1929.
Chemical preparation. Solarine Company. 248,596; Oct. 23; Serial No. 261,080; published Mar. 13, 1928.
Chemicals. Philipp Bauer Co. Inc. 248,435; Oct. 23; Serial No. 264,603; published July 24, 1928.
Compound, Nonmetallic. Out West Manufacturing Co. 248,475; Oct. 23; Serial No. 247,630; published Aug. 7, 1928.
Cosmetics. C. W. Beggs, Sons & Co. 248,402; Oct. 23; Serial No. 254,343; published July 24, 1928.
Cream, ointment, tooth paste, etc., Cold. L. W. Mauck. 248,591; Oct. 23; Serial No. 261,581; published July 24, 1928.
Dental products. A. Petit. 248,439; Oct. 23; Serial No. 264,326; published July 24, 1928.
Disinfectant, Household. Midway Chemical Company. 248,400; Oct. 23; Serial No. 254,411; published Aug. 7, 1928.
Drugs and medicines for hogs and stock. D. H. Pike. 248,584; Oct. 23; Serial No. 262,818; published July 24, 1928
Germicide, antiseptic, and deodorant powder. American Drug & Chemical Co. 248,555; Oct. 23; Serial No. 266,506; published July 24, 1928.
Insecticide. W. H. Baxley. 248,393; Oct. 23; Serial No. 257,657; published Aug. 7, 1928.
Lotions and creams. Chalfont Products Incorporated. 248,469; Oct. 23; Serial No. 252,241; published Aug. 7, 1928.
Medical preparation. Temmler-Werke Vereinigte Chemische Fabriken Hermann Temmler. 248,463; Oct. 23; Serial No. 259,976; published July 24, 1928.
Medicinal gold preparation. I. G. Farbenindustrie Aktiengesellschaft. 248,391; Oct. 23; Serial No. 258,222; published July 24, 1928.
Medicine. E. H. Dunlap. 248,473; Oct. 23; Serial No. 249,516; published July 24, 1928.
Medicine for the treatment of hay fever, medicinal snuff, etc. L. W. Brooks. 248,582; Oct. 23; Serial No. 263,068; published Aug. 7, 1928.
Oil for medicinal use, Russian mineral. H. Huebschman. 248,583; Oct. 23; Serial No. 262,852; published July 24, 1928.
Oil in capsules, Castor. Grape Capsule Company. 70,447; renewed Sept. 1, 1928.
Perfumes, toilet waters, bleach cream, etc. T. Hoffman. 248,433; Oct. 23; Serial No. 264,683; published July 24,1928.
Preparation, Dental. E. I. Rodgers. 248,395; Oct. 23; Serial No. 257,255; published July 31, 1928.
Preparation, External. J. J. Gladke. 248,593; Oct. 23; Serial No. 261,362; published July 24, 1928.
Preparation for dandruff, falling hair, and dry scalp. C. Russell. 248,383; Oct. 23; Serial No. 259,646; published July 24, 1928.
Remedy for certain diseases. Cawthon-Coleman Drug Company. 72,480; renewed Jan. 26, 1929.
Salve. Bowler Salve Co. 248,643; Oct. 23.
Salve. Mentholatum Company. 248,543; Oct. 23; Serial No. 266,386; published July 24, 1928.
Toilet preparations. Wilfred Laboratories, Inc. 248,484; Oct. 23; Serial No. 232,110; published July 24, 1928.
Tonic, Celery. Century Chemical Co. 70,409; renewed Aug 25, 1928.
Tonic for constipation, etc. Mrs. E. L. McCarty. 248,466; Oct. 23; Serial No. 260,742; published Aug. 7, 1928.
Tonic, Indigestion remedy, etc., Stomach. R. O. Murphy. 248,387; Oct. 25; Serial No. 259,013; published July 24, 1928.
Tonics, Body. H. L. Fields. 248,485; Oct. 23; Serial No. 223,027; published July 24, 1928.
Tooth paste for children. Amera Chemical Co. 248,397; Oct. 23; Serial No. 256,803; published July 24, 1928.

CLASS 10.

Fertilizers. Georgia Chemical Works. 248,491; Oct. 23; Serial No. 269,110; published Aug. 14, 1928.

CLASS 11.

Ink, Writing. American Crayon Company. 248,479; Oct. 23; Serial No. 241,509; published Mar. 8, 1927.
Ribbons and carbon paper, Typewriter. National Bank Supply Co. 248,621; Oct. 23; Serial No. 268,555; published Aug. 14, 1928.

CLASS 12.

Plaster board. J. B. King & Co. 70,575; renewed Sept. 15, 1928.
Wooden composition and slate shingles and shingle slabs. Beaver Products Company. 248,486; Oct. 23; Serial No. 203,930; published May 17, 1927.

CLASS 13.

Air-brake equipment, Repair parts for. Brake Equipment and Supply Company. 248,385; Oct. 23; Serial No. 259,100; published Aug. 14, 1928.
Bibs, bushings, caps, gauges, etc. A. & F. Brown Company. 248,556; Oct. 23; Serial No. 267,295; published Aug. 14, 1928.
Chains used in hardware and saddlery lines. Carr Chain Works Inc. 248,500; Oct. 23; Serial No. 269,016; published Aug. 14, 1928.
Handles for self-closing bibs and faucets. H. Mueller Manufacturing Company. 71,492; renewed Nov. 24, 1928.

CLASS 14.

Metallic sheet material. United States Foil Co. 248,410; Oct. 23; Serial No. 268,067; published Aug. 7, 1928.
Steel and steel alloys, Sheet. Eastern Rolling Mill Company. 248,520; Oct. 23; Serial No. 266,587; published Aug. 7, 1928.

CLASS 15.

Gasoline. Blue Bird Chemical Company. 248,554; Oct. 23; Serial No. 266,784; published Aug. 7, 1928.
Oil, Motor-lubricating. Quaker Oil Company. 248,607; Oct. 23; Serial No. 267,996; published Aug. 7, 1928.
Oils and greases, gasoline, etc., Lubricating. Tide Water Oil Company. 248,570; Oct. 23; Serial No. 266,842; published Aug. 7, 1928.
Oils and lubricant oils and greases, Motor-fuel. Pennzoil Company. 248,431; Oct. 23; Serial No. 265,065; published Aug. 7, 1928.
Oils and lubricating oils, Liquid-fuel. L. T. Gardner. 248,429; Oct. 23; Serial No. 265,376; published Aug. 7, 1928.
Oils, Lubricating. Standard Oil Company. 248,399; Oct. 23; Serial No. 255,079; published Aug. 7, 1928.

CLASS 16.

Cleaner, wax paste, auto polish, etc., Auto. W. F. Griffe. 248,519; Oct. 23; Serial No. 266,927; published Aug 7, 1928.
Cleaning and polishing fluid, Wood. S. Hardy. 248,518; Oct. 23; Serial No. 266,930; published Aug. 7, 1928.
Colors in oil, white lead, and combination white lead. Camel Lead, Color & Chemical Products Mfg. Corp. 248,406; Oct. 23; Serial No. 268,913; published Aug. 14, 1928.
Finishes, paints, varnishes, etc., Painters' gloss and flat. Acme White Lead & Color Works. 248,517; Oct. 23; Serial No. 267,105; published Aug. 14, 1928.
Lacquers, reducers, ready-mixed paint, and primers. Berry Brothers, Incorporated. 248,522; Oct. 23; Serial No. 266,575; published Aug. 14, 1928.
Oil, Linseed. Thomas Hubbuck & Son, Limited. 248,531; Oct. 23; Serial No. 262,851; published Aug. 7, 1928.
Paint. Arnesto Paint Company. 248,419; Oct. 23; Serial No. 267,480; published Aug. 7, 1928.
Paint enamels and varnishes. Knox Varnish Company. 248,411; Oct. 23; Serial No. 267,968; published Aug. 7, 1928.
Paint, Waterproofing. American Waterproofing Company. 248,523; Oct. 23; Serial No. 266,572; published Aug. 7, 1928.
Paints and lacquers. W. J. Day. 248,418; Oct. 23; Serial No. 267,486; published Aug. 7, 1928.
Paints and varnishes. Samuel H. French & Co. 70,015; renewed July 21, 1928.
Paints, paint enamels, varnishes, etc. Rinshed-Mason Co. 248,413–14; Oct. 23; Serial Nos. 267,859–60; published Aug. 14, 1928.
Paints, stains, varnishes, etc. John Lucas & Co. 248,528; Oct. 23; Serial No. 264,033; published Aug. 14, 1928.
Polish, liquid wax, etc., Furniture. Midway Chemical Company. 248,535; Oct. 23; Serial No. 254,412; published Aug. 7, 1928.
Preparation, Penetrating, preserving, long-wearing. Bens' Chemical Company. 248,412; Oct. 23; Serial No. 267,924; published Aug. 7, 1928.
Varnish, stain, etc. Berry Brothers, Incorporated. 248,521; Oct. 23; Serial No. 266,576; published Aug. 14, 1928.
Varnishes and paint enamels. Wadsworth Howland & Co. Incorporated. 248,409; Oct. 23; Serial No. 268,069; published Aug. 7, 1928.
Water color for printing from wood blocks and linoleum cuts. G. Wagner. 248,529; Oct. 23; Serial No. 263,572; published Aug. 14, 1928.

CLASS 17.

Cigars. De Nobili Cigar Company. 248,608; Oct. 23; Serial No. 268,147; published Aug. 14, 1928.
Cigars. Federal Cigar Company. 248,633; Oct. 23; Serial No. 268,361; published Aug. 14, 1928.
Cigars. A. Santaella & Co. 248,510; Oct. 23; Serial No. 268,753; published Aug. 14, 1928.
Cigars. Standard Cigar Company. 248,499; Oct. 23; Serial No. 269,041; published Aug. 14, 1928.
Cigarettes. T. E. Ofiesh. 248,497; Oct. 23; Serial No. 269,054; published Aug. 14, 1928.

CLASS 19.

Automobile sun and storm curtains. Kemitex Products Company. 248,480; Oct. 23; Serial No. 240,863; published Aug. 14, 1928.

Automobiles, Used. Hupp Motor Car Corporation. 248,573; Oct. 23; Serial No. 267,420; published Aug. 14, 1928.
Shock absorbers. Houde Engineering Corporation. 248,512–13; Oct. 23; Serial Nos. 268,693–4; published Aug. 14, 1928.

CLASS 21.

Electrical goods. Pass & Seymour, Incorporated. 72,721; renewed Feb. 16, 1929.
Electrical supplies. Revere Electric Co. 248,540; Oct. 23; Serial No. 266,148; published Aug. 7, 1928.
Lighting outfits, electric decorative devices, Christmas-tree. Noma Electric Corporation. 248,544; Oct. 23; Serial No. 266,394; published Aug. 7, 1928.
Porcelain articles used for insulating purposes. Porcelain Products, Inc. 248,390; Oct. 23; Serial No. 258,286; published Aug. 7, 1928.
Rheostats and potentiometers for radio use. Carter Radio Company. 248,649; Oct. 23.
Signs, Neale, Inc. 248,581; Oct. 23; Serial No. 263,223; published Aug. 7, 1928.
Spark plugs. W. T. Grant Company. 248,561; Oct. 23; Serial No. 267,414; published Aug. 7, 1928.

CLASS 22.

Amusement devices, Juvenile. American-National Company. 248,437; Oct. 23; Serial No. 264,502; published Aug. 7, 1928.
Fishing lines. Finlayson, Bousfield & Co. 248,563; Oct. 23; Serial No. 267,248; published Aug. 7, 1928.
Fishing rods. Montague Rod and Reel Company. 248,465; Oct. 23; Serial No. 260,832; published Aug. 7, 1928.
Game. Board. Zu'u Toy Manufacturing Company. 248,548; Oct. 23; Serial No. 266,634; published Aug. 7, 1928
Game device for playing and practice of the game of golf. J. N. Winsten. 248,574; Oct. 23; Serial No. 267,623; published Aug. 7, 1928.
Golf balls. Thomas Agency. 248,447; Oct. 23; Serial No. 267,811; published Aug. 7, 1928.
Golf clubs. Wilson-Western Sporting Goods Company. 248,501–2; Oct. 23; Serial Nos. 269,011–12; published Aug. 7, 1928.
Golf irons and golf clubs. Wimbar, Inc. 248,530; Oct. 23; Serial No. 263,249; published July 31, 1928.
Toy dogs. F. W. Woolnough Co. 248,599; Oct. 23; Serial No. 268,128; published Aug. 7, 1928.
Toys, toy blocks, bows and arrows, etc. Marshall Field & Company. 248,434; Oct. 23; Serial No. 264,676; published Aug. 7, 1928.

CLASS 23.

Apparatus for the treatment of solids suspended in liquids. Dorr Company. 248,626; Oct. 23; Serial No. 268,491; published Aug. 14, 1928.
Beam heads. E. Uff. 248,616; Oct. 23; Serial No. 268,257; published Aug. 14, 1928.
Direction indicators for motor vehicles, Mechanical. Presto Signal Company. 248,440; Oct. 23; Serial No. 264,048; published Aug. 14, 1928.
Drilling sets, Electric. Black & Decker Manufacturing Co. 248,560; Oct. 23; Serial No. 267,336; published Aug. 14, 1928.
Engines, Internal-combustion. Chrysler Corporation. 248,503; Oct. 23; Serial No. 268,066; published Aug. 14, 1928.
Equipment, Road-building and quarry. Universal Road Machinery Co. 248,577; Oct. 23; Serial No. 263,568; published Aug. 14, 1928.
Fire extinguishers. Internationale Feuerlöscher-Gesellschaft mit beschränkter Haftung. 248,467; Oct. 23; Serial No. 252,847; published Aug. 14, 1928.
Fire extinguishing apparatus and parts thereof. American-La France and Fosmite Corporation. 248,455; Oct. 23; Serial No. 267,884; published Aug. 14, 1928.
Gears and pinions. Flexible Engineering Corporation. 248,625; Oct. 23; Serial No. 268,493; published Aug. 14, 1928.
Knife letter openers. J. A. Henckels. 248,572; Oct. 23; Serial No. 266,931; published Aug. 14, 1928.
Machinery, Automatic. M. D. Kopple. 248,401; Oct. 23; Serial No. 254,354; published Aug. 14, 1928.
Machines for tapping mains and parts of such machines. H. Mueller Manufacturing Company. 71,527; renewed Dec. 1, 1928.
Presses, fruit and cider crushers, macaroni machines, etc., Fruit. A. P. Giunta. 248,456; Oct. 23; Serial No. 267,893; published Aug. 14, 1928.
Razor blades. May Department Stores Company. 248,506; Oct. 23; Serial No. 268,875; published Aug. 14, 1928.
Saws and machine knives. Simonds Manufacturing Company. 71,413; renewed Nov. 24, 1928.
Sprayers, spray pumps, spray guns, etc., Hand and power operated. D. B. Smith & Company. 248,557; Oct. 23; Serial No. 266,832; published Aug. 14, 1928.
Sweepers, Carpet. C. F. Hovey Co. 248,474; Oct. 23; Serial No. 248,104; published June 7, 1927.
Vises and spraying outfits. Demco, Incorporated. 248,424; Oct. 23; Serial No. 265,956; published Aug. 14, 1928.

CLASS 24.

Laundry washing machines. Altorfer Bros. Company. 248,494–5; Oct. 23; Serial Nos. 269,069–70; published Aug. 14, 1928.
Presses, Garment. Fidelity Laundry Machinery & Engineering Company. 248,388; Oct. 23; Serial No. 258,900; published Mar. 20, 1928.

CLASS 25.

Fasteners, latches, shutter bars, etc., Window-sash. Stanley Works. 248,624; Oct. 23; Serial No. 268,520; published Aug. 14, 1928.
Locks. International Time Recording Company of New York. 248,460; Oct. 23; Serial No. 267,961; published Aug. 14, 1928.
Safes and metal filing cabinets and closets. J. Spector. 248,443; Oct. 23; Serial No. 263,835; published Aug. 14, 1928.
Seals, Base-metal truck-car and shipping-case. E. J. Brooks and Company. 248,550; Oct. 23; Serial No. 266,578; published Aug. 7, 1928.

CLASS 26.

Apparatus for ascertaining the quantity and quality of fluid in an earth stratum in a well bore. Houston Engineers. 248,482; Oct. 23; Serial No. 237,604; published Aug. 14, 1928.
Devices for showing and warning of abnormal conditions in combustion-engine cooling systems. Anderson Company. 248,386; Oct. 23; Serial No. 259,095; published Aug. 14, 1928.
Projectors, cameras, stereopticons, etc., Moving-picture. De Vry Corporation. 248,462; Oct. 23; Serial No. 259,713; published Aug. 14, 1928.
Recorders, Impact. J. B. Baskerville. 248,423; Oct. 23; Serial No. 266,014; published Aug. 14, 1928.
Scales and machines, counting machines, etc., Weighing. Toledo Scale Company. 248,539; Oct. 23; Serial No. 266,057; published Aug. 14, 1928.

CLASS 27.

Watches and watchcases. Keystone Watch Case Company. 248,651; Oct. 23.

CLASS 29.

Brooms. Pratt-Mallory Company. 248,421; Oct. 23; Serial No. 267,458; published Aug. 7, 1928.
Mops, Cleaning, dusting, and polishing. A. E. Bienstock. 248,422; Oct. 23; Serial No. 267,403; published Aug. 7, 1928.

CLASS 32.

Beds, bed springs, couches, etc. New York Bed Spring Mfg. Co. 248,594; Oct. 23; Serial No. 261,278; published Aug. 14, 1928.
Radiator enclosures. Steelcraft Coverator Co. 248,564; Oct. 23; Serial No. 267,217; published Aug. 14, 1928.

CLASS 34.

Barn-wall structures. J. A. MacDowell. 248,602; Oct. 23; Serial No. 268,047; published Aug. 14, 1928.
Boilers and ventilating fans. Kisco Boiler & Engineering Company. 248,569; Oct. 23; Serial No. 267,129; published Aug. 14, 1928.
Furnaces and parts therefor. Surface Combustion Company. 248,568; Oct. 23; Serial No. 266,838; published Aug. 14, 1928.
Heaters, Gas water. W. B. Bastian Manufacturing Company. 248,389; Oct. 23; Serial No. 258,450; published Aug. 14, 1928.
Heaters, Gasoline and gas. American Gas Machine Company, Inc. 248,457; Oct. 23; Serial No. 267,916; published Aug. 14, 1928.
Lighters, Cigar and cigarette. Wales Novelties Corporation. 248,565; Oct. 23; Serial No. 267,168; published Aug. 14, 1928.
Mantles for electric heaters, etc., Portable. Architectural Decorating Company. 248,598; Oct. 23; Serial No. No. 268,131; published Aug. 14, 1928.
Ranges, gas hot plates, etc., Gas. Andes Range & Furnace Corp. 248,470; Oct. 23; Serial No. 250,732; published Aug. 14, 1928.

CLASS 35.

Hose, rubber packing and belting, Rubber. Hamilton Rubber Manufacturing Company. 248,436; Oct. 23; Serial No. 264,517; published Aug. 14, 1928.

CLASS 36.

Phonographs. Q R S Company. 248,547; Oct. 23; Serial No. 266,618; published Aug. 7, 1928.

CLASS 37.

Albums. Housh Company. 248,546; Oct. 23; Serial No. 266,427; published Aug. 7, 1928.
Book for family records, Blank. M. E. Moody. 248,542; Oct. 23; Serial No. 266,342; published Aug. 14, 1928.
Cards, Tally. Henderson Lithographing Company. 248,576; Oct. 23; Serial No. 267,416; published Aug. 7, 1928.
Crayons, slate pencils, and chalk. Binney & Smith Company. 248,609–12; Oct. 23; Serial Nos. 268,136–9; published Aug. 14, 1928.
Memorandum support, Telephone. J. E. Lind. 248,396; Oct. 23; Serial No. 257,241; published Aug. 14, 1928.
Notebooks, tablets, loose-leaf binders, etc. Jasper Sipes Co. 248,468; Oct. 23; Serial No. 252,263; published Aug. 7, 1928.

Paper. Strathmore Paper Company. 248,580; Oct. 23; Serial No. 263,233; published Aug. 14, 1928.
Paper and envelopes. Hampshire Paper Company. 248,620; Oct. 23; Serial No. 268,603; published Aug. 14, 1928.
Paper and paper towels, Toilet, tissue, and crepe. Albany Perforated Wrapping Paper Company. 248,629; Oct. 23; Serial No. 268,413; published Aug. 14, 1928.
Paper covers. M. E. Orchard. 248,618; Oct. 23; Serial No. 268,627; published Aug. 14, 1928.
Paper, Kraft. International Paper Company. 248,588; Oct. 23; Serial No. 262,308; published Aug. 14, 1928.
Paper, paper towels and napkins, Toilet. Hoberg Paper and Fibre Company. 248,549; Oct. 23; Serial No. 266,537; published Aug. 14, 1928.
Paper, paper towels and napkins, Toilet. Hoberg Paper and Fibre Company. 248,552; Oct. 23; Serial No. 266,536; published Aug. 14, 1928.
Paper, Toilet. Clarke Paper Company. 248,505; Oct. 23; Serial No. 268,915; published Aug. 14, 1928.
Paper towels. Crown Williamette Paper Company. 248,545; Oct. 23; Serial No. 266,417; published July 10, 1928.
Paper, Wall. Robert F. Hobbs, Inc. 248,490; Oct. 23; Serial No. 269,119; published Aug. 14, 1928.
Paper, Wall. Stamford Wall Paper Company. 248,559; Oct. 23; Serial No. 267,323; published Aug. 14, 1928.
Stencils, Dry. Plex Dry Stencil Corporation. 248,571; Oct. 23; Serial No. 267,509; published Aug. 7, 1928.

CLASS 38.

Advertisements, Educational. Virginia Dare Extract Company. 247,587; Oct. 23; Serial No. 262,537; published Aug. 7, 1928.
Cartons. V. Leonard. 248,613; Oct. 23; Serial No. 268,164; published Aug. 7, 1928.
Charts and music books, Music. Kohler & Chase. 248,430; Oct. 23; Serial No. 265,277; published Aug. 7, 1928.
Journal, Weekly. Thoroughbred Record Company. 248,628; Oct. 23; Serial No. 268,471; published Aug. 7, 1928.
Magazine. Amateur Cinema League, Inc. 248,446; Oct. 23; Serial No. 267,686; published Aug. 7, 1928.
Magazine. Associated Publishing Co. 248,448; Oct. 23; Serial No. 267,826; published Aug. 7, 1928.
Magazine. Dell Publishing Company. 248,536; Oct. 23; Serial No. 266,649; published Aug. 7, 1928.
Magazine. W. F. Huffman Printing Company. 248,585; Oct. 23; Serial No. 262,804; published Aug. 14, 1928.
Magazine. Macfadden Publications Incorporated. 248,461; Oct. 23; Serial No. 267,980; published Aug. 7, 1928.
Magazine articles. N. Vinick. 248,579; Oct. 23; Serial No. 263,241; published Aug. 7, 1928.
Magazines. Paris Comet, Inc. 248,597; Oct. 23; Serial No. 268,462; published Aug. 7, 1928.
Newspaper column, Heading for. Houston Printing Company. 248,622; Oct. 23; Serial No. 268,545; published Aug. 7, 1928.
Newspaper, Heading for an annual section of a. Houston Printing Company. 248,623; Oct. 23; Serial No. 268,544; published Aug. 7, 1928.
Newspapers. Chicago Daily News, Inc. 248,551; Oct. 23; Serial No. 266,581; published Aug. 7, 1928.
Newspapers and periodicals, Daily comic strip in. G. O. Swanson. 248,631; Oct. 23; Serial No. 268,403; published Aug. 7, 1928.
Periodical. F. H. Hollmann. 248,606; Oct. 23; Serial No. 268,158; published Aug. 7, 1928.
Periodical. Merchandising Publishing Corporation. 248,445; Oct. 23; Serial No. 267,661; published Aug. 7, 1928.
Periodicals. Rumford Chemical Works. 248,567; Oct. 23; Serial No. 267,013; published Aug. 14, 1928.
Photographs and photographic prints. Dow Drug Company. 248,392; Oct. 23; Serial No. 258,117; published Aug. 7, 1928.
Posters, Advertising. Magill-Weinsheimer Company. 248,427; Oct. 23; Serial No. 265,733; published Aug. 14, 1928.
Publication. Tau Kappa Epsilon Fraternity. 248,636; Oct. 23; Serial No. 268,324; published Aug. 14, 1928.
Publication, Monthly. Stoody Company. 248,541; Oct. 23; Serial No. 266,154; published Aug. 7, 1928.
Publication, Periodical. E. H. Scull Company. 248,614; Oct. 23; Serial No. 268,174; published Aug. 7, 1928.
Publication, Section of a daily. Houston Printing Company. 248,575; Oct. 23; Serial No. 267,417; published Aug. 7, 1928.
Publication, Weekly. Peoples Opinion Printing Co. 248,562; Oct. 23; Serial No. 267,273; published Aug. 14, 1928.
Title for publication section. Women's Wear Company. 248,578; Oct. 23; Serial No. 263,526; published Aug. 14, 1928.

CLASS 39.

Apparel, Gymnasium and hiking. Katz & Cooper. 248,646; Oct. 23.
Clothing, Men's and boys'. Meyer's Company, The. 248,640; Oct. 23.
Coats, vests, trousers, etc. Kincaid & Company. 248,639; Oct. 23.
Dresses. Specialized Apparel Stores Company. 248,648; Oct. 23.
Hose, Ladies' silk. Lawton Co. 248,650; Oct. 23.
Hosiery. Bear Brand Hosiery Co. 248,645; Oct. 23.
Hosiery. T. L. Seidel. 70,356; renewed Aug. 25, 1928.
Hosiery. Wayne Knitting Mills. 248,637; Oct. 23; Serial No. 266,066; published July 10, 1928.
Hosiery, underwear, men's furnishings, etc. C. J. Farley & Co. 248 644; Oct. 23.
Suits for men and young men. Ph. Weinberg & Sons. 248,642; Oct. 23.
Underwear. Cheltenham Knitting Co. 248,638; Oct .23.

CLASS 40.

Combs, Rubber. Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft. 70,315; renewed Aug. 18, 1928.

CLASS 41.

Umbrellas. J. C. Penney Company. 248,432; Oct. 23; Serial No. 264,906; published July 10, 1928.

CLASS 42.

Silk piece goods. Carson Pirie Scott & Co. 70,279; renewed Aug. 18, 1928.

CLASS 44.

Appliances for stimulating the skin and muscular tissues. Lynne Arley, Inc. 248,533; Oct. 23; Serial No. 260,395; published Aug. 14, 1928.
Arch supports. Shoecraft Shop, Inc. 248,525; Oct. 23; Serial No. 265,992; published Aug. 7, 1928.
Cups, Paper sputum. J. Kauffman. 248,416; Oct. 23; Serial No. 267,658; published Aug. 14, 1928.
Douche appliances, syringes, and douche attachments therefor. All-Kleenz Sales Co. Inc. 248,407; Oct. 23; Serial No. 268,668; published Aug. 14, 1928.
Exercising machines. Sanitarium Equipment Company. 248,526; Oct. 23; Serial No. 265,502; published Aug. 14, 1928.
Massaging or mechanical exercising machines. Sanitarium Equipment Company. 248,415; Oct. 23; Serial No. 267,725; published Aug. 14, 1928.
Rubber goods. Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft. 71,199; renewed Nov. 10, 1928.
Supporters, bandages, belts, etc., Elastic. Etablissements Textiles de Pfetterhouse. 248,516; Oct. 23; Serial No. 267,300; published Aug. 7, 1928.
Surgical and dental instruments. J. Sklar Manufacturing Co. 248,532; Oct. 23; Serial No. 260,761; published Aug. 14, 1928.
Toothpicks. Pratt-Mallory Company. 248,420; Oct. 23; Serial No. 267,459; published Aug. 7, 1928.

CLASS 45.

Beverage and syrup and concentrates for use in making soft drink, Maltless. Emerson Drug Co. 248,634; Oct. 23; Serial No. 268,300; published Aug. 14, 1928.
Beverages and sirups for making the same, Maltless. Bridgeport Bottling Co. Inc. 248,449; Oct. 23; Serial No. 266,674; published Aug. 14, 1928.
Beverages and syrups for making the same, Maltless. Goody Nectar Company. 248,458; Oct. 23; Serial No. 267,950; published Aug. 14, 1928.
Beverages, Maltless. J. H. Love. 248,553; Oct. 23; Serial No. 266,674; published Aug. 14, 1928.
Ginger ale. St. Paul Bottling Company. 248,511; Oct. 23; Serial No. 268,752; published Aug. 14, 1928.
Ginger ale, root beer, etc. Cedar Rapids Bottling Works. 248,504; Oct. 23; Serial No. 268,965; published Aug. 14, 1928.
Juices, Fruit. Kingsway Corporation. 248,464; Oct. 23; Serial No. 259,961; published Aug. 14, 1928.
Syrups and flavorings for making soft drinks, Maltless. Smith-Junior Company. 248,450–3; Oct. 23; Serial Nos. 267,865–8; published Aug. 14, 1928.
Water, Mineral. A. Krekler. 248,605; Oct. 23; Serial No. 268,163; published Aug. 14, 1928.

CLASS 46.

Bacon. Swift Canadian Company. 248,454; Oct. 23; Serial No. 267,873; published Aug. 14, 1928.
Bread. L. Cannon. 248,514; Oct. 23; Serial No. 268,675; published Aug. 7, 1928.
Butter. Giles-Cummings Company. 248,426; Oct. 23; Serial No. 265,789; published Aug. 7, 1928.
Butter, Creamery. H. A. Gordhamer. 248,459; Oct. 23; Serial No. 267,951; published Aug. 7, 1928.
Candies. O. P. Catsigianis. 248,476; Oct. 23; Serial No. 247,260; published Aug. 14, 1928.
Candy. Walter Birk Candy Co. 248,508; Oct. 23; Serial No. 268,842; published Aug. 14, 1928.
Candy. Lambert Chocolate Company. 248,641; Oct. 23.
Candy. Robt. F. MacKenzie Co. 248,507; Oct. 23; Serial No. 268,872; published Aug. 14, 1928.
Candy. G. L. Walker. 248,477; Oct. 23; Serial No. 245,875; published Aug. 14, 1928.
Candy confection on a stick. Metro Chocolate Co. Inc. 248,428; Oct. 23; Serial No. 265,393; published July 24, 1928.
Canned fish. Garneau & de Bruyn, Inc. 248,384; Oct. 23; Serial No. 259,282; published Aug. 14, 1928.
Canned fish. M. A. Rex. 248,589; Oct. 23; Serial No. 262,141; published Apr. 24, 1928.
Canned fruits, vegetables, and dried fruits. E. A. Morrison, Inc. 248,489; Oct. 23; Serial No. 269,134; published Aug. 14, 1928.
Canned peas. Younglove Grocery Co. 248,509; Oct. 23; Serial No. 268,832; published Aug. 14, 1928.

Canned raviolis and oysters. Dunbar-Dukate Company. 248,635; Oct. 23; Serial No. 268,358; published Aug. 14, 1928.
Canned salmon. Alaska Packers Association. 71,725–33; renewed Dec. 15, 1928.
Canned salmon. Alaska Packers Association. 71,735–50; renewed Dec. 15, 1928.
Canned salmon. Alaska Packers Association. 71,752–75; renewed Dec. 15, 1928.
Canned salmon. Alaska Packers Association. 71,841–4; renewed Dec. 15, 1928.
Canned salmon. Alaska Packers Association. 71,879–87; renewed Dec. 22, 1928.
Canned salmon. Alaska Packers Association. 72,058–9; renewed Dec. 29, 1928.
Canned salmon. Alaska Packers Association. 72,680; renewed Feb. 9, 1929.
Canned salmon. Alaska Packers Association. 72,739; renewed Feb. 16, 1929.
Canned salmon. Kelley-Clarke Co. 248,498; Oct. 23; Serial No. 269,053; published Aug. 14, 1928.
Cereal preparation for making beverages. Postum Cereal Co. Limited. 71,262; renewed Nov. 10, 1928.
Cheese, Cream. Breakstone Bros., Inc. 248,487; Oct. 23; Serial No. 198,699; published Aug. 2, 1927.
Coffee. Hills Bros. 71,581; renewed Dec. 1, 1928.
Coffee. William S. Scull Company. 248,496; Oct. 23; Serial No. 269,066; published Aug. 14, 1928.
Confectionery, candied fruit, hickory nuts, etc. Louise Kluger Company. 248,652; Oct. 23.
Eggs. Penobscot Beef & Provision Co. 248,538; Oct. 23; Serial No. 266,043; published July 31, 1928.
Feed, Poultry and stock. Poultry Producers of Central California. 248,502; Oct. 23; Serial No. 261,384; published July 31, 1928.
Feeds, Poultry and stock. Rudy-Patrick Seed Company. 248,566; Oct. 28; Serial No. 267,146; published July 31, 1928.
Flour meal and foodstuffs made therefrom. Vitamins Limited. 248,394; Oct. 23; Serial No. 257,517; published July 31, 1928.
Flour, Self-rising prepared. Doughnut Machine Corporation. 248,471; Oct. 23; Serial No. 250,017; published July 31, 1928.
Flour, Wheat. International Milling Company. 248,604; Oct. 23; Serial No. 268,041; published July 31, 1928.
Fruits, Fresh citrus. Orange Mutual Citrus Association. 248,488; Oct. 23; Serial No. 269,140; published Aug. 14, 1928.
Fruits, Fresh citrus and deciduous. Rocky Hill Corporation. 248,534; Oct. 23; Serial No. 255,532; published Dec. 20, 1927.
Grapes, Fresh. Costa Brothers. 248,493; Oct. 23; Serial No. 269,092; published Aug. 14, 1928.
Gum and candy, Chewing. Curtiss Candy Company. 248,492; Oct. 23; Serial No. 269,095; published Aug. 14, 1928.
Isinglass. Cape Ann Isinglass Company. 248,402; Oct. 23; Serial No. 269,085; published Aug. 14, 1928.
Macaroni. Independent Macaroni Co. Inc. 248,524; Oct. 23; Serial No. 266,468; published Aug. 7, 1928.
Milk, Chocolate-flavored. Canton Pure Milk Company. 248,404; Oct. 23; Serial No. 269,082; published Aug. 14, 1928.
Milk, Condensed. Mohawk Condensed Milk Co. 71,394; renewed Nov. 24, 1928.
Milk, Condensed. Mohawk Condensed Milk Co. 72,462; renewed Jan. 26, 1929.
Oil, Lucca olive. G. Rossano & Bro. 72,758; renewed Feb. 16, 1929.
Olive oil. Henry W. Peabody & Co. 248,405; Oct. 23; Serial No. 269,035; published Aug. 14, 1928.
Peanut butter. M. F. Livermore. 248,408; Oct. 23; Serial No. 268,454; published Aug. 7, 1928.
Pickles and condiments. Widlar Company. 248,527; Oct. 23; Serial No. 264,624; published Aug. 14, 1928.
Pig's feet and pickled sliced tongue, Spiced boneless. Kroger Grocery and Baking Co. 248,537; Oct. 23; Serial No. 266,033; published Aug. 7, 1928.
Potato chips, Chocolate-covered. C. D. & R. W. Watson. 248,595; Oct. 23; Serial No. 261,155; published Aug. 14, 1928.
Rice. Lake Charles Rice Milling Company of Louisiana, Inc. 248,630; Oct. 23; Serial No. 268,502; published Aug. 7, 1928.
Syrup, Cane. Hardaway-Cargill Co. 248,417; Oct. 23; Serial No. 267,653; published Aug. 14, 1928.
Syrups, Blend of cane and maple. Towle Maple Syrup Company. 71,654; renewed Dec. 8, 1928.
Tea. Hills Bros. 71,813; renewed Dec. 15, 1928.
Whey solid, Powdered. Kraft-Phenix Cheese Company. 268,619; Oct. 23; Serial No. 268,616; published Aug. 7, 1928.

CLASS 49.

Whiskey, Rye. American Medicinal Spirits Company. 248,601; Oct. 23; Serial No. 268,073; published Aug. 14, 1928.

ALPHABETICAL LIST OF LABELS.

A Concentrated Extract by Lucretia Vanderbilt. For Perfume. Lucretia Vanderbilt, Inc. 34,847; Oct. 23.
A Concentrated Extract by Lucretia Vanderbilt. For Perfume. Lucretia Vanderbilt, Inc. 34,851; Oct. 23.
A Double Compact (Powder-Rouge) by Lucretia Vanderbilt. For Compacts. Lucretia Vanderbilt, Inc. 34,849; Oct. 23.
A Face Powder (and Puff) by Lucretia Vanderbilt. For Face Powder. Lucretia Vanderbilt, Inc. 34,850; Oct. 23.
A Face Powder (With Puff) by Lucretia Vanderbilt. For Face Powder. Lucretia Vanderbilt, Inc. 34,844; Oct. 23.
A Fadeless Lipstick by Lucretia Vanderbilt. For Lip Sticks. Lucretia Vanderbilt, Inc. 34,845; Oct. 23.
A Miniature Presentation by Lucretia Vanderbilt. For Cosmetics. Lucretia Vanderbilt, Inc. 34,846; Oct. 23.
Aromints. For Candy. Aromint Corporation. 34,808; Oct. 23.
A Triple Compact (Powder-Rouge-Lipstick) by Lucretia Vanderbilt. For Compacts. Lucretia Vanderbilt, Inc. 34,848; Oct. 23.
Blue Anchor Malt Syrup. For Malt Syrup. H. Kasser. 34,828; Oct. 23.
Blue Hen Eggs. For Eggs. Commercial Creamery Company. 34,815; Oct. 23.
Caligrapo. For Grapes. California Grape Products Company. 34,809; Oct. 23.
Chat's Best. For Lentils. Chatterton & Son. 34,810; Oct. 23.
Chat's Best. For Split Peas. Chatterton & Son. 34,811; Oct. 23.
Dix. For Dessert Powders. E. B. McFarlane. 34,833; Oct. 23.
Dr. Johnson's Anti-Flu-Rub. For Medicinal Preparation. C. L. Johnson. 34,827; Oct. 23.
El Capitan. For Fresh Oranges. San Dimas Orange Growers Association. 34,841; Oct. 23.
Falstaff. For Pears. B. Mocco. 34,836; Oct. 23.
Fluf-It. For Cake-Flour Preparation. Guntrath-Lorenzen Co. 34,823; Oct. 23.
Frisch Process. For Bread. E. Frisch. 34,818; Oct. 23.
Golden Rule Shoe. For Footwear. Frank C. Meyer Company, Inc. 34,834; Oct. 23.
Honey Girl. For Butter. Sutherland Paper Company. 34,843; Oct. 23.
J-L-E. For Fruit Concentrate. Continental Credit Corporation. 34,817; Oct. 23.
J-L-E Bread Spread. For Fruit Concentrate. Continental Credit Corporation. 34,816; Oct. 23.
Kof-No-Mor. For Cough Remedy. T. Anderson. 34,807; Oct. 23.
Love's Real Hawaiian Fruit Cake. For Fruit Cake. Love's Biscuit & Bread Company. 34,832; Oct. 23.
Mark of Integrity. For Ladies' and Misses' Dresses. Alexander S. Gross, Inc. 34,821; Oct. 23.
Medo-Maid Eggs. For Eggs. Commercial Creamery Company. 34,814; Oct. 23.
Merit the Standard. For Ladies' and Misses' Dresses. Alexander S. Gross, Inc. 34,822; Oct. 23.
Milford. For Canned Corn. Milford Canning Company. 34,835; Oct. 23.
Monogram Dates. For Dates. Hills Brothers Company. 34,824; Oct. 23.
New Life for Auto Tops. For Dressing Auto Tops. C. J. Ingersoll. 34,825; Oct. 23.
Old Repeat. For Soft Drinks. Nesbitt Fruit Products, Inc. 34,838; Oct. 23.
Pay Day. For Tomatoes with Purée from Trimmings. Klauber Wangenheim Co. 34,831; Oct. 23.
Point Loma. For Canned Corn. Klauber Wangenheim Co. 34,830; Oct. 23.
Pontiac. For Lemons. Chula Vista Citrus Association. 34,812; Oct. 23.
Principessa di Venezia. For Salad Oil. Colonial Can Co. 34,813; Oct. 23.
Real-Lite. For Christmas-Tree Lighting Sets. International Trading Co. 34,826; Oct. 23.
Results 'Pilgrims of the Night'. For Laxative. Van Dyke Chemical Company. 34,852; Oct. 23.
St. John's Bread. For Bread. P. L. Musac. 34,837; Oct. 23.
Silvergate. For Canned Corn. Klauber Wangenheim Co. 34,829; Oct. 23.
Star. For Bread. Rochester Bread Company. 34,840; Oct. 23.
The Table that Opens and Closes like a Drawer. For Extension Tables. Theodor Sauer Co. 34,842; Oct. 23.
Thomas' Vegetized Whole Wheat. For Bread. Vegetable Products Corporation. 34,853; Oct. 23.
Vinho-Ferro E Quina. For Tonic. J. E. Perry. 34,839; Oct. 23.
Yes. For Glue. Gane Brothers & Lane, Incorporated. 34,819–20; Oct. 23.

ALPHABETICAL LIST OF PRINTS.

Airline Pillows. For Pillows. Buchman Manufacturing Company. 11,284; Oct. 23.
All Together for More Swimming Suit Business. For Swimming Suits. Jantzen Knitting Mills. 11,298; Oct. 23.
An Authoritative Review of the Latest Findings in Nutrition. For Wheat Breakfast Food. Cream of Wheat Co. 11,290; Oct. 23.
Beauty for You in the Continental Manner. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,278; Oct. 23.
Beech-Nut Brand Chewing Gum, Always Refreshing. For Chewing Gum. Beech-Nut Packing Company. 11,282; Oct. 23.
Beech-Nut Brand Chewing Gum, Fruit Flavored. For Chewing Gum. Beech-Nut Packing Company. 11,283; Oct. 23.
Beech-Nut Brand Chewing Gum, Licorice Flavored. For Chewing Gum. Beech-Nut Packing Company. 11,279; Oct. 23.
Beech-Nut Brand Chewing Gum, Spearmint. For Chewing Gum. Beech-Nut Packing Company. 11,280; Oct. 23.
Beech-Nut Brand Chewing Gum, Wintergreen. For Chewing Gum. Beech-Nut Packing Company. 11,281; Oct. 23.
Dairy Bread Builds Strong Muscles. For Bread. American Dry Milk Institute, Inc. 11,272; Oct. 23.
Dairy Bread Rich in Milk Minerals Milk Proteins Milk Sugar You'll Like its Old Time Flavor! For Bread. American Dry Milk Institute, Inc. 11,274; Oct. 23.
Fitsrite Ear Drum Protectors. For Ear-Drum Protectors. J. Cohn. 11,289; Oct. 23.
For Healthier Youngsters! Dairy Bread. For Bread. American Dry Milk Institute, Inc. 11,276; Oct. 23.
Good(Wingfoot)Year More People Ride on Goodyear Tires than on any other Kind. For Tires Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company Inc. 11,295; Oct. 23.
Health in every Slice Dairy Bread. For Bread. American Dry Milk Institute, Inc. 11,275; Oct. 23.
Its Rich Black Lines, Easily Written and Easily Read, have made Dixon's Ti-Con-Der-Oga America's Favorite Five-Cent Pencil. For Pencils. Joseph Dixon Crucible Company. 11,294; Oct. 23.
Makes Delicious Crispy Evenly Browned Toast. For Bread. American Dry Milk Institute, Inc. 11,277; Oct. 23.
Many Million Hands Use Dixon's Ti-Con-Der-Oga every Day. It Adapts Itself to every Writing Style. For Pencils. Joseph Dixon Crucible Company. 11,291; Oct. 23.
New Engineering Discoveries give Amazing Results. For Spee-Dee Boilers. Cleveland Heater Company. 11,288; Oct. 23.
Now, Another New Achievement. For Rex-Patrol Water Heaters. Cleveland Heater Company. 11,287; Oct. 23.
On the Men Depends the Success of your Party. For Heinz "57" Varieties. H. J. Heinz Company. 11,296; Oct. 23.
Packing Thermometer. For Packing. Southeastern Products Company. 11,299; Oct. 23.
Revolutionary and Simplified. For Spee-Dee Boilers. Cleveland Heater Company. 11,286; Oct. 23.
Strong & Firm. For Pencils. Joseph Dixon Crucible Company. 11,292; Oct. 23.
Sure-Stop. For Optical Lenses. Zell Bros. & Co. 11,300; Oct. 23.
The Foundation of Robust Health Dairy Bread Milk Sugar Milk Protein Milk Minerals Get a Loaf of Dairy Bread Today! For Bread. American Dry Milk Institute, Inc. 11,273; Oct. 23.
The New Rex-Patrol Automatic Water Heater. For Rex-Patrol Water Heaters. Cleveland Heater Company. 11,285; Oct. 23.
The Spicing is the Secret. For Tomato Ketchup. H. J. Heinz Company. 11,297; Oct. 23.
Writing Ease. For Pencils. Joseph Dixon Crucible Company. 11,293; Oct. 23.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Champion, Albert, assignor.)
Aas, Nils, Skarnes, Norway. Teat cannula. 1,688,795; Oct. 23.
Abbott, Lyle S., Chicago, Ill. Air-cooled furnace-wall construction. 1,688,321. Oct. 23.
Ackley, Charles S., New York, N. Y. Apparatus for waving hair. 1,689,004; Oct. 23.
Ahlin, Hjalmar, Chicago, Ill. Mangle. 1,689,005; Oct. 23.
Ahlm, Charles E. F., East Cleveland, assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,688,844; Oct. 23.
Ahrendt, Harry T., Dubuque, Iowa. Cope head for tenoners and the like. 1,688,913; Oct. 23.
Akers, Milton K., Troy, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Variable inductance device. 1,689,006; Oct. 23.
Albert, August. (See Pfleger, J., and Albert.)
Albright, Andrew, jr., Miami Beach, Fla. Brush. 1,688,318; Oct. 23.
Alden, Milton, Springfield, Mass. Radio set connection. 1,688,772; Oct. 23.
Alexander, Andrew, New York, N. Y. Tire. 1,688,322; Oct. 23.
Aldinger, Jacob G., assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Measuring-pan filler. 1,688,773; Oct. 23.
Allis, Amber, Milwaukee, Wis. Cooking mold. 1,688,319; Oct. 23.
Altamirano, Alberto, assignor to Moisés Solana, Mexico City, Mexico. Cleaning thrashed cereals. 1,688,678; Oct. 23.
Alvear, Victor, Brooklyn, N. Y., assignor to Radio Corporation of America. Aerial loop mechanism for radio receiving sets. 1,688,845; Oct. 23.
American Assembling Machine Company. (See Juengst, Charles A., assignor.)
American Can Company. (See Corey, Harry R., assignor.)
American Can Company. (See Nordquist, Ronald E. J., assignor.)
American Car and Foundry Company. (See Doyle, Nicholas A., assignor.)
American Engineering Company. (See Weingartner, Anthony E., assignor.)
American Fabrics Company, The. (See Wackerman, Charles S., assignor.)
American Optical Company. (See Maynard, Albert E., assignor.)
American Optical Company. (See Wrighton, William J., assignor.)
American Platinum Works. (See Ledig, Kurt K., assignor.)
American Seating Company. (See Hamilton, G. H., and White, assignors.)
American Smelting and Refining Company. (See Lannon, Franklin P., jr., assignor.)
American Steel and Wire Company of New Jersey, The. (See Febrey, Harold H., assignor.)
American Telephone and Telegraph Company. (See Demarest, C. S., and Loynes, assignors.)
American Textile Company. (See Ball, Ben A., assignor.)
Amico, Joseph, Detroit, Mich. Shoe press. 1,688,323; Oct. 23.
Anderson, Harry P. H. (See McCallum, J., and Anderson.)
Andrews, Arthur G., Rockford, Ill., assignor to the Washburn Company, Worcester, Mass. Colander strainer. 1,688,846; Oct. 23.
Anfield, Benjamin T., Boulder, Colo. Drilling apparatus. 1,688,774; Oct. 23.
Applegate, Daniel H., jr., Red Bank, N. J., assignor, by mesne assignments, to Proctor & Schwartz, Inc., Philadelphia, Pa. Drier. 1,689,099; Oct. 23.
Arends, Herman T., Highland Park, Mich. Magazine binder. 1,688,514; Oct. 23.
Ariens, Henry, assignor to Brillion Iron Works, Brillion, Wis. Soil-pulverizing machine. 1,688,914; Oct. 13.
Arnesen, Charlotte, Chicago, Ill. Thermostatic switch plug. 1,689,007; Oct. 23.
Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
Astrom, John, assignor of one-half to Deister Machine Company, Fort Wayne, Ind. Apparatus for treating liquids. 1,688,915; Oct. 23.
Atkinson, Herbert S., East Orange, N. J., assignor to The Hayward Company, New York, N. Y. Bucket. 1,688,324; Oct. 23.
Atkinson, Ralph W., Perth Amboy, N. J., assignor, by mesne assignments, to General Cable Corporation. Electric cable. 1,688,954; Oct. 23.
Atwood, James T., Rockford, Ill. Manufacturing covered-joint hinge member. 1,688,955; Oct. 23.
Auerbach, L., & Co. (See Lebrecht, Alfred, assignor.)
Auflero, Emanuel, assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Electric motor. 1,688,847; Oct. 23.
Austin, Miner M., Waukegan, and C. W. Balke, Highland Park, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Apparatus for processing wire. 1,688,481; Oct. 23.
Automatic Electric Inc. (See Crocker, Thomas F., assignor.)
Automatic Electric Inc. (See Engsberg, Ralph W., assignor.)
Automatic Electric Inc. (See Passmore, William O., assignor.)
Automatic Electric Inc. (See Ray, Arthur J., assignor.)
Automatic Electric Inc. (See Smith, Arthur B., assignor.)
Automotive Patent Holding Company. (See Ahlm, Charles E. F., assignor.)
Automotive Valves Corporation, The. (See Burtnett, Everett R., assignor.)
Bager, Svante R. W. M., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Steering mechanism. 1,688,572; Oct. 23.
Bailey, Edwin W. M., Amesbury, Mass. Window-glass channel. 1,688,371; Oct. 23.
Baker, George A., Philadelphia, Pa. Eye shield. 1,688,775; Oct. 23.
Baker, Theodore, Pompton Plains, N. J., and W. A. Peters, jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Plate column. 1,688,515; Oct. 23.
Baker, William E., Erie, Pa. Oil heater. 1,688,796; Oct. 23.
Balikjian, Kegham, Newark, N. J. Webbing support for upholstery. 1,689,100; Oct. 23.
Balke, Clarence W. (See Austin, M. M., and Balke.)
Ball, Albert P., Detroit, Mich. Poker set stand. Des. 76,658; Oct. 23.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 76,659; Oct. 23.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 76,660; Oct. 23.
Bank of Pittsburgh, N. A., administrator, The. (See Kann, William L.)
Barber, Earl F., Kansas City, Kans. Awning. 1,688,776; Oct. 23.
Barker, Charles E., San Francisco, Calif. Drawing board. 1,688,516; Oct. 23.
Barker, Edwin H., Moylan, Pa. Oiler. 1,688,372; Oct. 23.
Barnes, Llewellyn T., assignor to The Gem Engineering Corporation, Hempstead, N. Y. Switching apparatus. 1,688,848; Oct. 23.
Barnes, Pierre. (See Crossett, Lewis D., assignor.)
Bartels, Carl P. (See Bellamore, D. H., and Bartels.)
Bartosik, Joseph, Monessen, Pa. Flush tank. 1,688,797; Oct. 23.
Bassett, Alvin J., Milwaukee, Wis., assignor to The Bruce Macbeth Engine Company, Cleveland, Ohio. Mixing device for oil-gas apparatus. 1,688,320; Oct. 23.
Bassick Manufacturing Company, The. (See Trinquart, Louis G., assignor.)
Bassick Manufacturing Company, The. (See Zerk, Oscar, assignor.)
Baum, Gustav, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y. Heating liquids by electrical energy. 1,688,679; Oct. 23.
Baum, Gustav, Weissenstein-on-the-Drau, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y. Apparatus for heating liquids by electrical energy. 1,688,680; Oct. 23.
Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)
Baxter, Frederick C., Belvidere, Ill. Automatic shut-off device for liquid dispensers. 1,689,066; Oct. 23.
Beacon Falls Rubber Shoe Company, The. (See Wagner, Henry C., assignor.)
Beals, Edward A. (See Shepard, Wilbur L., assignor.)
Beck, Allen F., assignor to The Clark Grave Vault Company, Columbus, Ohio. Fastening mechanism for grave vaults. 1,689,101; Oct. 23.
Beebe, Herbert F., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand lamp. 1,688,373; Oct. 23.

ALPHABETICAL LIST OF PRINTS.

Airline Pillows. For Pillows. Buchman Manufacturing Company. 11,284; Oct. 23.

All Together for More Swimming Suit Business. For Swimming Suits. Jantzen Knitting Mills. 11,298; Oct. 23.

An Authoritative Review of the Latest Findings in Nutrition. For Wheat Breakfast Food. Cream of Wheat Co. 11,290; Oct. 23.

Beauty for You in the Continental Manner. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,278; Oct. 23.

Beech-Nut Brand Chewing Gum, Always Refreshing. For Chewing Gum. Beech-Nut Packing Company. 11,282; Oct. 23.

Beech-Nut Brand Chewing Gum, Fruit Flavored. For Chewing Gum. Beech-Nut Packing Company. 11,283; Oct. 23.

Beech-Nut Brand Chewing Gum, Licorice Flavored. For Chewing Gum. Beech-Nut Packing Company. 11,279; Oct. 23.

Beech-Nut Brand Chewing Gum, Spearmint. For Chewing Gum. Beech-Nut Packing Company. 11,280; Oct. 23.

Beech-Nut Brand Chewing Gum, Wintergreen. For Chewing Gum. Beech-Nut Packing Company. 11,281; Oct. 23.

Dairy Bread Builds Strong Muscles. For Bread. American Dry Milk Institute, Inc. 11,272; Oct. 23.

Dairy Bread Rich in Milk Minerals Milk Proteins Milk Sugar You'll Like its Old Time Flavor! For Bread. American Dry Milk Institute, Inc. 11,274; Oct. 23.

Fitsrite Ear Drum Protectors. For Ear-Drum Protectors. J. Cohn. 11,289; Oct. 23.

For Healthier Youngsters! Dairy Bread. For Bread. American Dry Milk Institute, Inc. 11,276; Oct. 23.

Good(Wingfoot)Year More People Ride on Goodyear Tires than on any other Kind. For Tires Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company Inc. 11,295; Oct. 23.

Health in every Slice Dairy Bread. For Bread. American Dry Milk Institute, Inc. 11,275; Oct. 23.

Its Rich Black Lines, Easily Written and Easily Read, have made Dixon's Ti-Con-Der-Oga America's Favorite Five-Cent Pencil. For Pencils. Joseph Dixon Crucible Company. 11,294; Oct. 23.

Makes Delicious Crispy Evenly Browned Toast. For Bread. American Dry Milk Institute, Inc. 11,277; Oct. 23.

Many Million Hands Use Dixon's Ti-Con-Der-Oga every Day. It Adapts Itself to every Writing Style. For Pencils. Joseph Dixon Crucible Company. 11,291; Oct. 23.

New Engineering Discoveries give Amazing Results. For Spee-Dee Boilers. Cleveland Heater Company. 11,288; Oct. 23.

Now, Another New Achievement. For Rex-Patrol Water Heaters. Cleveland Heater Company. 11,287; Oct. 23.

On the Men Depends the Success of your Party. For Heinz "57" Varieties. H. J. Heinz Company. 11,296; Oct. 23.

Packing Thermometer. For Packing. Southeastern Products Company. 11,299; Oct. 23.

Revolutionary and Simplified. For Spee-Dee Boilers. Cleveland Heater Company. 11,286; Oct. 23.

Strong & Firm. For Pencils. Joseph Dixon Crucible Company. 11,292; Oct. 23.

Sure-Step. For Optical Lenses. Zell Bros. & Co. 11,300; Oct. 23.

The Foundation of Robust Health Dairy Bread Milk Sugar Milk Protein Milk Minerals Get a Loaf of Dairy Bread Today! For Bread. American Dry Milk Institute, Inc. 11,273; Oct. 23.

The New Rex-Patrol Automatic Water Heater. For Rex-Patrol Water Heaters. Cleveland Heater Company. 11,285; Oct. 23.

The Spicing is the Secret. For Tomato Ketchup. H. J. Heinz Company. 11,297; Oct. 23.

Writing Ease. For Pencils. Joseph Dixon Crucible Company. 11,293; Oct. 23.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Champion, Albert, assignor.)

Aas, Nils, Skarnes, Norway. Teat cannula. 1,688,795; Oct. 23.

Abbott, Lyle S., Chicago, Ill. Air-cooled furnace-wall construction. 1,688,321. Oct. 23.

Ackley, Charles S., New York, N. Y. Apparatus for waving hair. 1,689,004; Oct. 23.

Ahlin, Hjalmar, Chicago, Ill. Mangle. 1,689,005; Oct. 23.

Ahlm, Charles E. F., East Cleveland, assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,688,844; Oct. 23.

Ahrendt, Harry T., Dubuque, Iowa. Cope head for tenoners and the like. 1,688,913; Oct. 23.

Akers, Milton K., Troy, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Variable inductance device. 1,689,006; Oct. 23.

Albert, August. (See Pfleger, J., and Albert.)

Albright, Andrew, jr., Miami Beach, Fla. Brush. 1,688,318; Oct. 23.

Alden, Milton, Springfield, Mass. Radio set connection. 1,688,772; Oct. 23.

Alexander, Andrew, New York, N. Y. Tire. 1,688,322; Oct. 23.

Aldinger, Jacob G., assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Measuring-pan filler. 1,688,773; Oct. 23.

Allis, Amber, Milwaukee, Wis. Cooking mold. 1,688,319; Oct. 23.

Altamirano, Alberto, assignor to Moisés Solana, Mexico City, Mexico. Cleaning thrashed cereals. 1,688,678; Oct. 23.

Alvear, Victor, Brooklyn, N. Y., assignor to Radio Corporation of America. Aerial loop mechanism for radio receiving sets. 1,688,845; Oct. 23.

American Assembling Machine Company. (See Juengst, Charles A., assignor.)

American Can Company. (See Corey, Harry R., assignor.)

American Can Company. (See Nordquist, Ronald E. J., assignor.)

American Car and Foundry Company. (See Doyle, Nicholas A., assignor.)

American Engineering Company. (See Weingartner, Anthony E., assignor.)

American Fabrics Company, The. (See Wackerman, Charles S., assignor.)

American Optical Company. (See Maynard, Albert E., assignor.)

American Optical Company. (See Wrighton, William J., assignor.)

American Platinum Works. (See Ledig, Kurt K., assignor.)

American Seating Company. (See Hamilton, G. H., and White, assignors.)

American Smelting and Refining Company. (See Lannon, Franklin P., jr., assignor.)

American Steel and Wire Company of New Jersey, The. (See Febrey, Harold H., assignor.)

American Telephone and Telegraph Company. (See Demarest, C. S., and Loynes, assignors.)

American Textile Company. (See Ball, Ben A., assignor.)

Amico, Joseph, Detroit, Mich. Shoe press. 1,688,323; Oct. 23.

Anderson, Harry P. H. (See McCallum, J., and Anderson.)

Andrews, Arthur G., Rockford, Ill., assignor to the Washburn Company, Worcester, Mass. Colander strainer. 1,688,846; Oct. 23.

Anfield, Benjamin T., Boulder, Colo. Drilling apparatus. 1,688,774; Oct. 23.

Applegate, Daniel H., jr., Red Bank, N. J., assignor, by mesne assignments, to Proctor & Schwartz, Inc., Philadelphia, Pa. Drier. 1,689,099; Oct. 23.

Arends, Herman T., Highland Park, Mich. Magazine binder. 1,688,514; Oct. 23.

Ariens, Henry, assignor to Brillion Iron Works, Brillion, Wis. Soil-pulverizing machine. 1,688,914; Oct. 13.

Arnesen, Charlotte, Chicago, Ill. Thermostatic switch plug. 1,689,007; Oct. 23.

Arrow Electric Company, The. (See Nero, Arvid H., assignor.)

Astrom, John, assignor of one-half to Deister Machine Company, Fort Wayne, Ind. Apparatus for treating liquids. 1,688,915; Oct. 23.

Atkinson, Herbert S., East Orange, N. J., assignor to The Hayward Company, New York, N. Y. Bucket. 1,688,324; Oct. 23.

Atkinson, Ralph W., Perth Amboy, N. J., assignor, by mesne assignments, to General Cable Corporation. Electric cable. 1,688,954; Oct. 23.

Atwood, James T., Rockford, Ill. Manufacturing covered-joint hinge member. 1,688,955; Oct. 23.

Auerbach, L., & Co. (See Lebrecht, Alfred, assignor.)

Auñero, Emanuel, assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Electric motor. 1,688,847; Oct. 23.

Austin, Miner M., Waukegan, and C. W. Balke, Highland Park, assignor to Fansteel Producta Company, Inc., North Chicago, Ill. Apparatus for processing wire. 1,688,481; Oct. 23.

Automatic Electric Inc. (See Crocker, Thomas F., assignor.)

Automatic Electric Inc. (See Engsberg, Ralph W., assignor.)

Automatic Electric Inc. (See Passmore, William O., assignor.)

Automatic Electric Inc. (See Ray, Arthur J., assignor.)

Automatic Electric Inc. (See Smith, Arthur B., assignor.)

Automotive Patent Holding Company. (See Ahlm, Charles E. F., assignor.)

Automotive Valves Corporation, The. (See Burtnett, Everett R., assignor.)

Bager, Svante R. W. M., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Steering mechanism. 1,688,572; Oct. 23.

Bailey, Edwin W. M., Amesbury, Mass. Window-glass channel. 1,688,371; Oct. 23.

Baker, George A., Philadelphia, Pa. Eye shield. 1,688,775; Oct. 23.

Baker, Theodore, Pompton Plains, N. J., and W. A. Peters, jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Plate column. 1,688,515; Oct. 23.

Baker, William E., Erie, Pa. Oil heater. 1,688,796; Oct. 23.

Balikjian, Kegham, Newark, N. J. Webbing support for upholstery. 1,689,100; Oct. 23.

Balke, Clarence W. (See Austin, M. M., and Balke.)

Ball, Albert P., Detroit, Mich. Poker set stand. Des. 76,658; Oct. 23.

Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 76,659; Oct. 23.

Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 76,660; Oct. 23.

Bank of Pittsburgh, N. A., administrator, The. (See Kann, William L.)

Barber, Earl F., Kansas City, Kans. Awning. 1,688,776; Oct. 23.

Barker, Charles E., San Francisco, Calif. Drawing board. 1,688,516; Oct. 23.

Barker, Edwin H., Moylan, Pa. Oiler. 1,688,372; Oct. 23.

Barnes, Llewellyn T., assignor to The Gem Engineering Corporation, Hempstead, N. Y. Switching apparatus. 1,688,848; Oct. 23.

Barnes, Pierre. (See Crossett, Lewis D., assignor.)

Bartels, Carl P. (See Bellamore, D. H., and Bartels.)

Bartosik, Joseph, Monessen, Pa. Flush tank. 1,688,797; Oct. 23.

Bassett, Alvin J., Milwaukee, Wis., assignor to The Bruce Macbeth Engine Company, Cleveland, Ohio. Mixing device for oil-gas apparatus. 1,688,320; Oct. 23.

Bassick Manufacturing Company, The. (See Trinquart, Louis G., assignor.)

Bassick Manufacturing Company, The. (See Zerk, Oscar, assignor.)

Baum, Gustav, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y. Heating liquids by electrical energy. 1,688,679; Oct. 23.

Baum, Gustav, Weissenstein-on-the-Drau, Karnten, Austria, assignor to The Niagara Electro Chemical Company, Inc., New York, N. Y. Apparatus for heating liquids by electrical energy. 1,688,680; Oct. 23.

Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)

Baxter, Frederick C., Belvidere, Ill. Automatic shut-off device for liquid dispensers. 1,689,066; Oct. 23.

Beacon Falls Rubber Shoe Company, The. (See Wagner, Henry C., assignor.)

Beals, Edward A. (See Shepard, Wilbur L., assignor.)

Beck, Allen F., assignor to The Clark Grave Vault Company, Columbus, Ohio. Fastening mechanism for grave vaults. 1,689,101; Oct. 23.

Beebe, Herbert F., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand lamp. 1,688,373; Oct. 23.

Beechlyn, John T., Worcester, Mass., assignor, by mesne assignments, to Haptograph, Inc. Animated picture display. 1,689,102; Oct. 23.

Beers, Royce L., assignor to Detroit Stoker Company, Detroit, Mich. Stoker. 1,688,608; Oct. 23.

Beisler, Josef, Hamburg, Germany. Artificial-tooth fastening. 1,688,517; Oct. 23.

Belfry, Alfred W., Detroit, Mich. Bath mit. 1,688,374; Oct. 23.

Bell, John E., deceased; L. R. Bell, executrix, Brooklyn, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,688,325; Oct. 23.

Bell, Lola R. (See Bell, John E.)

Bell Telephone Laboratories, Incorporated. (See Holland, Newman H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Smith, Edmund B., assignor.)

Bellamore, David H., New York, N. Y., and C. P. Bartels, assignors to The Mosler Safe Company, Hamilton, Ohio. Safe construction. 1,688,849; Oct. 23.

Bellone, Michael A. (See Fullerton, F. W. L., and Bellone.)

Bendix, Carl J., East Melbourne, Australia. Chair particularly for office use. 1,688,956; Oct. 23.

Bendixen, Niels, London, England, assignor to J. G. Y. D. Morgan. Apparatus for mixing liquids with solid or semisolid substances or with other liquids. 1,689,103; Oct. 23.

Benjamin, E. V., Company, The. (See Orndoff, Herbert W., assignor.)

Benner, Harry P. (See Egloff, G., and Benner.)

Benner, Louis A., Anaheim, Calif. Air heater. 1,689,067; Oct. 23.

Bennett, Ashley C., Minneapolis, Minn. Gravity air cleaner for carburetors. 1,689,104; Oct. 23.

Bennett, James G., Arlington, Mass. Outlet-box-cover adjuster. 1,688,518; Oct. 23.

Bensa, Felice. (See Stieger, Karl, assignor.)

Benson, Nels J., Geneva, Iowa. Device for cooling gas engines. 1,688,447; Oct. 23.

Bergmans, Jan, and T. J. J. A. Manders, Eindhoven, Netherlands, assignors to General Electric Company. Gas-filled electric incandescent lamp. 1,688,777; Oct. 23.

Berkins, Clarence A., Minneapolis, Minn. Oil burner; 1,688,375; Oct. 23.

Bernström, Johan M. (See Lundberg, O., and Bernström.)

Berry, Hubert, Ottery St. Mary, England. Carving fork. 1688,778; Oct. 23.

Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Antiseptic, antifouling, germicidal waterproof coatings. 1,689,008; Oct. 23.

Bidoire, Maxime A. L., Paris, France. System of propulsion for ships. 1,688,376; Oct. 23.

Binder Bros., Inc. (See Rolle, Friedrich A. K., assignor.)

Bishop, George E., Cleveland, Ohio. Automobile inclosure. 1,688,681; Oct. 23.

Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Structural reenforce element. 1,688,957; Oct. 23.

Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Structural unit. 1,688,958. Oct. 23.

Bjorklund, Robert, Brooklyn, N. Y. Valve grinder. 1,169,105; Oct. 23.

Blanchard Machine Company, The. (See Spencer, Henry K., assignor.)

Blaw-Knox Company. (See Marshall, Ira W., assignor.)

Blaw-Knox Company. (See Rawley, Wayne, assignor.)

Blewett, Stephen N. (See Buchenau, L. W., and Blewett.)

Blickman, Harry, et al. (See Wray, C. F., and Blickman, assignors.)

Blickman, Manuel, et al. (See Wray, C. F., and Blickman, assignors.)

Blickman, Saul, et al. (See Wray, C. F., and Blickman, assignors.)

Bloch, Leonard L., New York, N. Y. Meat-slicing machine. 1,688,573; Oct. 23.

Blomgren, Henry E., Brooklyn, N. Y. Spring-shackle anti-rattle attachment. 1,688,682; Oct. 23.

Bock, Walther, Berlin-Schoneberg, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Synchronizing two or more rotating bodies. 1,688,916; Oct. 23.

Bodmer, Albert, assignor to Heberlein & Co. A. G., Wattwil, Switzerland. Fabric making. 1,688,798; Oct. 23.

Bodmer, Albert, assignor to Heberlein & Co. A. G., Wattwil, Switzerland. Fabric making. 1,688,799; Oct. 23.

Böhm, Georg, Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Thrust bearing with fluid friction. 1,688,519; Oct. 23.

Boles, Charles W., Amarillo, Tex. Dispensing device. 1,688,609; Oct. 23.

Bolinger, Harvey L., assignor of one-half to T. W. Noland, Mountain Grove, Mo. Trap nest. 1,688,779; Oct. 23.

Bollenbach, Willard M. (See Olson, Robert W., assignor.)

Bonat, Samuel, & Bro. (See Lippert, Walter E., assignor.)

Bondy Auto Top Company, The. (See Bondy, Charles M., assignor.)

Bondy, Charles M., assignor to The Bondy Auto Top Company, Cleveland, Ohio. Button. 1,688,520; Oct. 23.

Bosch, Robert, Aktiengesellschaft. (See Walther, W., and Rau, assignors.)

Bouchard, Samuel E., assignor to Bausch & Lamb Optical Company, Rochester, N. Y. Spectacle frame. Des. 76,661; Oct. 23.

Boughner, Harry R. (See Sage, R. W., and Boughner.)

Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyon, France. Filter. 1,688,326; Oct. 23.

Boyd, Louis, Connellsville, Pa. Leaf turner. 1,689,106; Oct. 23.

Bradley, Frank L., Cincinnati, Ohio. Building block or brick. 1,689,107; Oct. 23.

Brahman, Herbert G., Hillsdale, Mich. Roost and dropping board assembly. 1,688,780; Oct. 23.

Brandwood, John, Southport, England, and J. Brandwood, Waban, Mass. Winding of yarns upon beams. 1,688,800; Oct. 23.

Brandwood, Joseph. (See Brandwood, John and J.)

Branson, James E., Cincinnati, Ohio. Machine for cutting concave surfaces. 1,688,781; Oct. 23.

Brass Products Company. (See Kuehl, Herman W., assignor.)

Breed, Alfred V., assignor to Curtis Machine Corporation, Jamestown, N. Y. Wood-carving machine. 1,689,108; Oct. 23.

Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)

Brillion Iron Works. (See Ariens, Henry, assignor.)

Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Separable arm construction for measuring instruments. 1,689,182; Oct. 23.

Brock, Richard R., Brooklyn, N. Y. Broom-handle brace. 1,689,109; Oct. 23.

Brooks Cabinet Company, et al. (See Brooks, Clarence H., assignor.)

Brooks, Clarence H., Norfolk, Va., assignor, by mesne assignments, to Brooks Cabinet Company, Inc., Norfolk, Va., and Manuing Manufacturing Company, (Incorporated), Rutland, Vt. Ice-cream cabinet. 1,688,959; Oct. 23.

Brosius, Edgar E., Pittsburgh, Pa. Furnace-tapping machine. 1,688,327; Oct. 23.

Brown, Arch M., Chickasha, Okla. Shock absorber for automobile and other springs. 1,688,683; Oct. 23.

Brown, Orie O., Roseville, Ohio. Shipping receptacle. 1,689,008; Oct. 23.

Brown, Walter W., Erie, Pa., assignor to General Electric Company. Making contact tips. Re17,108; Oct. 23.

Brown, William W., Oak Lane, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Automatic release for wringers. 1,688,408; Oct. 23.

Brown, William W., Oak Lane, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Wringer. 1,688,684; Oct. 23.

Browning Company, The. (See Murfey, G. A., and Meyer, assignors.)

Bruback, Theodore M., Du Bois, Pa. Soot cleaner for boilers. 1,688,482; Oct. 23.

Bruehl, Lawrence, Brooklyn, N. Y., assignor to Gas Refrigeration Corporation, Scranton, Pa. Evaporator for refrigerating apparatus. 1,688,377; Oct. 23.

Brügger, Saverio, Como, Italy. Stopping device for looms. 1,688,782; Oct. 23.

Brust, Walter W., Weston, W. Va. Cutting device. 1,689,110; Oct. 23.

Buchenau, Lloyd W., and S. N. Blewett, Stockton, Calif. Combined gum and package-confection case. Des. 76,662; Oct. 23.

Bucyrus-Erie Company. (See Bager, Svante R. W. M., assignor.)

Buehler, Leon, jr. (See Small, N. M., and Buehler.)

Buffalo Hammer Mill Corporation. (See Mursch, J., and Schutte, assignors.)

Burg, Alex J., St. Paul, Minn. Counter bin. 1,688,521; Oct. 23.

Burgess, L. P., et al., trustees. (See Gray, Jesse L., assignor.)

Burns, Katherine E., assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 76,663; Oct. 23.

Burrows, William R., Newark, N. J., assignor to General Electric Company. Electric lamp. 1,688,783; Oct. 23.

Burt, Benjamin F., assignor to The Dayton Manufacturing Company, Dayton, Ohio. Sash lifter and latch. 1,689,111; Oct. 23.

Burnett, Everett R., Los Angeles, Calif., assigno to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,688,610; Oct. 23.

Burtnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Piston for charge-pumping cylinders. 1,688,611; Oct. 23.

Busha, Leon, Minneapolis, Minn., Shingle. 1,688,917; Oct. 23.

Bushong, Grover C., Whittier, Calif. Well mechanism. 1,688,483; Oct. 23.

Butterworth, H. W., & Sons Company. (See Brown, William W., assignor.)

Byrns, Stephen H., Kansas City, Mo. Horn for loud speakers. 1,689,009; Oct. 23.

C. G. Spring & Bumper Company, The (See Jandus, H. S., and Rasmussen, assignors.)

Cain, Art, Indianola, Nebr. Fly shoo. 1,689,112; Oct. 23.

Calhoun, William D., Seattle, Wash. Forced-draft fan inclosure. 1,688,850; Oct. 23.

California Production Company. (See Palmer, Eli J., assignor.)

Cambron, John R., Evansville, Ind. Swinging automobile headlight. 1,689,167; Oct. 23.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway car. 1,688,685; Oct. 23.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway car. 1,688,851; Oct. 23.

Campbell, Donald J., Muskegon Heights, Mich. Molding apparatus. 1,688,784; Oct. 23.

Campbell, John A., Los Angeles, Calif. Street signal for vehicular traffic. 1,688,409; Oct. 23.

Carey, Philip, Manufacturing Company, The. (See Rogers, Homer L., assignor.)

Carlson, Ralph G., assignor to Crane Co., Chicago, Ill. Quick-opening gate valve. 1,688,686; Oct. 23.

Carnine, Arba I., North Madison, Ind. Oil burner. 1,689,113; Oct. 23.

Carson, J. H., et al. (See Carter, Samuel C., assignor.)

Carter, Samuel C., assignor of one-third to A. Robinson and one-third to J. H. Carson, Los Angeles, Calif. Pumping apparatus. 1,688,484; Oct. 23.

Carver, Walter H., and W. H. Yutz, Trenton, N. J. Chick-box. 1,689,069; Oct. 23.

Celanese Corporation of America. (See Eichengrün, Arthur, assignor.)

Celanese Corporatioin of America. (See Olpin, Henry, C. assignor.)

Central Brass and Fixture Company, The. (See McCloud, Edward H., assignor.)

Central Scientific Company. (See Stark, Rudi, assignor.)

Chadwick, Lee S., Shaker Heights Village, and M. Resek, and J. A. Dahlstrom, East Cleveland, Ohio. Fuel-oil burner. 1,688,448; Oct. 23.

Chalmers, Henry B., New York, N. Y. Power transmission. 1,688,785; Oct. 23.

Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Instrument assembly. 1,688,522; Oct. 23.

Champion, C. V., & Company. (See Chandler, Frank H., assignor.)

Chandler, Frank H., assignor to C. V. Champion & Company, Danville, Ill. Toasting or cooking apparatus. Re17,114; Oct. 23.

Chase, Clement E., Wayne, Pa. Ice pick. Des. 76,664; Oct. 23.

Chayes Dental Instrument Corporation. (See Chayes, H. E. S., and Jurgensen, assignors.)

Chayes, Herman E. S., and A. P. Jurgensen, assignors to Chayes Dental Instrument Corporation, New York, N. Y. Quadrangle. 1,688,410; Oct. 23.

Choquette, John A., Ottawa, Ontario, Canada. Auxiliary power means for ships and the like. 1,689,114; Oct. 23.

Cheulnard, Oscar, assignor to H. Wykes, New York, N. Y. Step and repeat machine. 1,688,786; Oct. 23.

Chown, Charles H., Peoria, Ill. Wall structure and building the same. 1,688,523; Oct. 23.

Christie, Howard E., Bronx, N. Y. Clutch device. 1,688,852; Oct. 23.

Cincinnati Rickford Tool Company, The. (See Klausmeyer, David C., assignor.)

Cincinnati Milling Machine Company, The. (See Einstein, Sol, assignor.)

Clark, Edward F., assignor, by mesne assignments, to Clark Lighter Co., Inc., North Attleboro, Mass. Vapor cigar lighter. 1,688,485; Oct. 23.

Clark Grave Vault Company, The. (See Beck, Allen F., assignor.)

Clark, J. R., Co., The. (See Kalgren, John E., assignor.)

Clark Lighter Co. (See Clark, Edward F., assignor.)

Clark, Omar E., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Pneumatic hammer. 1,688,449; Oct. 23.

Clayton, Martin M., Baden, Pa., assignor to National Metal Molding Company. Outlet-box connection. 1,688,853; Oct. 23.

Cleveland Pneumatic Tool Company, The. (See Wallace, John F., assignor.)

Clipper Belt Lacer Company. (See Diamond, James K., assignor.)

Clow, Oscar B., Tacoma, Wash. Composition shingle. 1,688,612; Oct. 23.

Clutter, J. O., et al., trustees. (See Gray, Jesse L., assignor.)

Cobb, Arthur, Washington, D. C. Cotton treating. 1,688,524; Oct. 23.

Cobb, Charles, jr., Marshall, Tex. Making brake shoes. 1,688,787; Oct. 23.

Coffey, Oscar L., assignor to Whiting Corporation, Harvey, Ill. Drop-pit mechanism for unwheeling locomotives. Re17,116; Oct. 23.

Cogan, Henry M., Charleston, W. Va. Air and fuel mixing device. 1,688,613; Oct. 23.

Cogan, Henry M., Charleston, W. Va. Mixing and vaporizing device. 1,688,687; Oct. 23.

Cohen, Abe. (See Pope, G. L. and Cohen.)

Cohn, Mary, New York, N. Y. Wheeled wind toy. 1,689,010; Oct. 23.

Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Quartering and crank-pin-turning machine. 1,688,788; Oct. 23.

Coleman, Berttie M., Worton, Md. Ring compressor. 1,689,115; Oct. 23.

Collins, Cap B., New York, N. Y. Spring motor. Des. 17,106; Oct. 23.

Comiskey, Stanley A., Seattle, Wash., assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet detector. 1,688,789; Oct. 23.

Commonwealth Steel Company. (See Sheehan, William M., assignor.)

Compress Buckle Company. (See Todd, James A., assignor.)

Continental Can Company. (See Goldsworthy, N. H., and Flook, assignors.)

Continental Gin Company. (See Elliott, Thomas, assignor.)

Cook, Ellsworth D., Scotia, N. Y., assignor to General Electric Company. Synchronism-indicating means. 1,688,790; Oct. 23.

Cook, William E., New York, N. Y. Carrier for tubular braiding machines. 1,689,116; Oct. 23.

Cook, William S., Parkersburg, W. Va. Electrical insulator. 1,688,411; Oct. 23.

Corbett, Willie R., Paducah, Ky. Automatically-operated orchestral device. 1,688,450; Oct. 23.

Corey, Harry R., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. 1,688,688; Oct. 23.

Cottingham, John W., assignor of one-third to G. F. McDonald and one-third to J. J. McDowell, Columbus, Ohio. Adjustable flushing nozzle. 1,688,614; Oct. 23.

Cotton, Alfred, assignor to Heine Boiler Company, St. Louis, Mo. Sectional header for water-tube boilers. 1,688,574; Oct. 23.

Coughlin, William G., Philadelphia, Pa. Rail-securing device. 1,688,801; Oct. 23.

Cowart, John R., Savannah, Ga. Radiator wrench. 1,688,525; Oct. 23.

Crampton, Basil R., Grand Rapids, Mich. Latch. 1,688,527; Oct. 23.

Crampton, Basil R., assignor to Winters & Crampton Mfg. Co., Grand Rapids, Mich. Latch. 1,688,526; Oct. 23.

Crane & Breed Manufacturing Company, The. (See Davoran, Michael F., assignor.)

Crane Co., (See Carlson, Ralph G., assignor.)

Creamery Package Mfg. Company, The. (See Larsen, Olaf, assignor.)

Crocker, Thomas F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,688,680; Oct. 23.

Cromar Company, The. (See Dittmar, Elmer C., assignor.)

Crossett, Lewis D., assignor of one-half to P. Barnes, Seattle, Wash. Mechanical figure toy. 1,688,575; Oct. 23.

Crowhurst, James W., Los Angeles, Calif. Frost-prevention apparatus. 1,688,802; Oct. 23.

Curtis Machine Corporation. (See Breed, Alfred V., assignor.)

Cutler-Hammer Mfg. Co., The. (See Seeger, Edwin W., assignor.)

Dahlstrom, Alger. (See Chadwick, L. S., Resek, and Dahlstrom.)

Dahlstrom, John A. (See Resek, M., and Dahlstrom.)

Dailey, James T., and J. J. Jackson, Kingwood, W. Va. Traffic signal for motor vehicles. 1,688,803; Oct. 23.

Daley, Raymond E. J., Schenectady, N. Y., assignor to General Electric Company. Sound-producing apparatus. 1,688,804; Oct. 23.

Danco, Leon A., Rockville Center, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Bottle or similar container. Des. 76,665; Oct. 23.

Danel, Herman. (See Grimoin-Sanson, R., and Danel.)

Daniel, Earle H., Springfield, assignor to R. W. Johnston, Johnston, Columbus, Ohio. Leveling device for plows. 1,688,615; Oct. 23.

Daniels, D., et al., trustees. (See Gray, Jesse L., assignor.)

Darby, Edward A., Philadelphia, Pa. Golf-bag rack. 1,688,412; Oct. 23.

Daumann, Karl W., assignor to C. H. F. Muller Rontgenrohrenfabrik, Hamburg, Germany. Vacuum tube for the production of soft X rays. 1,688,854; Oct. 23.

Davey, Cecilia E., Culver City, Calif. Doll. Des. 76,666; Oct. 23.

David, Aubrey D., assignor to The Universal Oil Products Company, Chicago, Ill. Converting petroleum oils. 1,688,855; Oct. 23.

Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Pressure control for pressing machines. 1,688,918; Oct. 23.

Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Drying-room tumbler. 1,688,919; Oct. 23.

Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Pressing machine. 1,688,920; Oct. 23.

Davis, Myron P., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Cutting oil and producing same. 1,689,011; Oct. 23.

Davoran, Michael F., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial casket. 1,689,183; Oct. 23.

Dawson, Haller H., Clarksburg, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Drinking glass. Des. 76,667; Oct. 23.

Dawson, Haller H., Clarksburg, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Drinking glass. Des. 76,668; Oct. 23.

Dawson, Haller H., Clarksburg, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Drinking glass. Des. 76,669; Oct. 23.
Dawson, Haller H., Clarksburg, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Drinking glass. Des. 76,670; Oct. 23.
Day, Harry V. (See Harvey, R., and Day.)
Dayton Malleable Iron Company, The. (See Runyan, William B., assignor.)
Dayton Manufacturing Company, The. (See Burt, Benjamin F., assignor.)
De Forest Radio Company. (See Weagant, Roy A., assignor.)
De Forest Radio Telephone & Telegraph Company. (See Logwood, Charles V., assignor.)
Degener, Gustave O., assignor to Royal Typewriter Company, Inc., New York, N. Y. Adding attachment for typewriting machines. 1,688,805; Oct. 23.
Deister Machine Company. (See Astrom, John, assignor.)
Delas, Albert, Paris, France, assignor to Delas Condenser Corporation, New York, N. Y. Method of and apparatus for increasing the vacuum of turbines. 1,688,413; Oct. 23.
Delas Condenser Corporation. (See Delas, Albert, assignor.)
De Laval Separator Company, The. (See Erling, Sven J., assignor.)
Delaware, Lackawanna & Western Coal Co., The. (See Esselen, G. J., jr., and Weiss, assignors.)
Demarest, Charles S., Ridgewood, N. J., and O. H. Loynes, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Telephone signaling system. 1,688,451; Oct. 23.
Demarest, Charles S., Ridgewood, N. J., and O. H. Loynes, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Telephone signaling system. 1,688,452; Oct. 23.
Demarest, Charles S., Ridgewood, N. J., and O. H. Loynes, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Telephone signaling system. 1,688,453; Oct. 23.
Demarest, Charles S., Ridgewood, N. J., and O. H. Loynes, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Telephone signaling system. 1,688,454; Oct. 23.
Demarest, Charles S., Ridgewood, N. J., and O. H. Loynes, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Telephone signaling system. 1,688,455; Oct. 23.
Densmore, Albert A., Boston, Mass., assignor to Eclipse Machine Company, Elmira Heights, N. Y. Power-transmission apparatus. 1,688,486; Oct. 23.
Dentists' Supply Company, The. (See Gibson, Albert E., assignor.)
Destor, William F., Newark, assignor to U. S. Tool Co., Inc., East Orange, N. J. Gas-burner igniter. 1,688,487; Oct. 23.
Detroit Stoker Company. (See Beers, Royce L., assignor.)
Devereaux, William C., Detroit, Mich. Automobile door handle or similar article. Des. 76,671; Oct. 23.
Devon Manufacturing Company. (See Lundgaard, Ivar, assignor.)
Diamond, James K., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Machine for applying belt fasteners and the like. 1,689,012; Oct. 23.
Diamond, James K., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Belt-fastener-applying machine. 1,689,013; Oct. 23.
Dick, William R., San Diego, Calif. Cooking utensil. 1,688,690; Oct. 23.
Dickinson, Fredrick S., New York, N. Y. Strip for cord tires. 1,689,168; Oct. 23.
Dieboid, Emil H., Newark, N. J. Sign. 1,689,117; Oct. 23.
Dieterle, Paul, Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Reduction of aromatic nitro compounds. 1,689,014; Oct. 23.
Dittmar, Elmer C., assignor to The Cromar Company, Williamsport, Pa. Buffer for machines for finishing flooring. 1,688,378; Oct. 23.
Dodd, John W., Brookline, assignor to George T. McLauthlin Company, Boston, Mass. Electrically-released brake. 1,688,379; Oct. 23.
Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Car-truck side frame. 1,688,856; Oct. 23.
Doherty Research Company. (See Merley, Sylvan R., assignor.)
Dolph, Cyrus, Preston, Ontario, Canada. Combination dining table and cabinet. 1,688,456; Oct. 23.
Domoto, Takanoshin, Osaka, Japan. Lining composition for metallic containers. 1,688,857; Oct. 23.
Dormeyer, Albert F., Chicago, Ill. Muffler. 1,688,488; Oct. 23.
Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Power mechanism. 1,688,380; Oct. 23.
Dowd, Francis J. (See Magazzini, J., and Dowd.)
Dows, Walter G., Dorchester, Mass. Pipe fitting. 1,688,921; Oct. 23.
Dowsett, Harry M., Colchester, and H. B. Tilley, Chelmsford, England, assignors to The Radio Corporation of America, New York, N. Y. Electrical resistance. 1,688,381; Oct. 23.
Dowle, Harry F., Aurora, Ill., assignor to Kroehler Mfg. Co., Naperville, Ill. Reclining chair. 1,688,576; Oct. 23.
Doyle, James S. (See Hedley, F., and Doyle.)
Doyle, Nicholas A., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. Rail joint. 1,689,169; Oct. 23.
Drake, Marcourt C., Hempstead, and E. A. Sperry, Brooklyn, N. Y., assignors to Sperry Development Company, Dover Green, Del. Transmission system for automotive vehicles. 1,688,691; Oct. 23.
Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-forming apparatus. 1,688,528; Oct. 23.
Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-edge block. 1,688,529; Oct. 23.
Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Cooler for sheet-glass apparatus. 1,688,530; Oct. 23.
Drewry, George F., assignor to The Lincoln Meter Company, Limited, Toronto, Ontario, Canada. Meter for measuring combined polyphase and single-phase electrical energy. 1,688,858; Oct. 23.
Dreyfus, Henry, London, England. Manufacture of artificial silk, artificial horsehair, and the like. 1,688,531; Oct. 23.
Dreyfus, Henry, London, England. Filaments or threads of cellulose derivatives and making same. 1,688,532; Oct. 23.
Drinosky, John, jr., Niles, Ohio. Baby walker. 1,688,922; Oct. 23.
Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
Dubilier Condenser Corporation. (See Weiss, Arthur J., assignor.)
Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,688,960; Oct. 23.
Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,688,961; Oct. 23.
Duncan, Robert D., jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Wired radio on power lines. 1,688,692; Oct. 23.
Dupen, James R., Chico, Calif. Weather stop. 1,688,577; Oct. 23.
Du Pont, E. I., de Nemours & Company. (See Baker, T., and Peters, assignors.)
Du Pont Rayon Company. (See Gladding, Ernest K., assignor.)
Du Pont Viscoloid Company. (See Person, Earl R., assignor.)
Dwight & Lloyd Metallurgical Company. (See Hyde, Reed W., assignor.)
Dyer, Harry E. (See Franko, Stephen D., assignor.)
Dyer, William A. (See Lack, John, assignor.)
E. A. Laboratories, Inc. (See Auñero, Emanuel, assignor.)
Eames, George M., Bridgeport, Conn., and I. F. Webb, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Power transmitter. 1,688,414; Oct. 23.
Eastman Kodak Company. (See Stewart, Donald H., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eby, Eugene D., Pittsfield, Mass., assignor to General Electric Company. Insulated cable joints. 1,688,693; Oct. 23.
Eclipse Machine Company. (See Densmore, Albert A., assignor.)
Eddy, Charles F. A., New London, Conn. Switching mechanism. 1,689,118; Oct. 23.
Eger, George, assignor to The Stanley Works, New Britain, Conn. Combination workbench and tool holder. 1,688,533; Oct. 23.
Eggleston Drilling Corporation. (See Smith, Eggleston, assignor.)
Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Cracking hydrocarbons. 1,688,859; Oct. 23.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Cracking oil. 1,688,860; Oct. 23.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Cracking petroleum oil, 1,688,861; Oct. 23.
Eichengrün, Arthur, Charlottenburg, Germany, assignor to Celanese Corporation of America. Production of thin films of cellulose derivative. 1,688,457; Oct. 23.
Einstein, Sol, Cincinnati, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. Variable spindle drive. 1,688,534; Oct. 23.
Eiflein, Frederick C., et al. (See Meyer, Adolph, assignor.)
Eiflein, Harry A., et al. (See Meyer, Adolph, assignor.)
Elliott, George A., New London, Iowa. Detachable sign. 1,689,070; Oct. 23.
Elliott, Thomas, Birmingham, Ala., assignor to Continental Gin Company. Control mechanism for cotton-gin seeders. 1,688,610; Oct. 23.
Ellis, Alva K., and R. Henry, Duncan, Okla. Device for removing mechanical elements from shafts, etc. 1,688,535; Oct. 23.
Ellis, Alvarado L. R., Swampscott, Mass., assignor to General Electric Company. Piezo-electric device. 1,688,694; Oct. 23.

Ellis, Ervin R., Washington, D. C., assignor of three-fifths to Goldberg Brothers Company, Inc., Richmond, Va. Display stand. Des. 76,672; Oct. 23.
Ellis, Hubert C. and N. C., Evanston, Ill. Ironing machine. 1,689,015; Oct. 23.
Ellis, Norman C. (See Ellis, Hubert C. and N. C.)
Ellwood, Charles D., assignor to Walker Manufacturing Company, Racine, Wis. Lifting jack. 1,688,862; Oct. 23.
Engel, Frank and J., Syracuse, N. Y. Oil burner. 1,688,806; Oct. 23.
Engel, Julius. (See Engel, Frank and J.)
Engle, Edgar W., Lake Forest, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Vacuum tube. 1,688,499; Oct. 23.
Engsberg, Ralph W., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Measured-service telephone system. 1,688,617; Oct. 23.
Ennis, George H., New York, N. Y. Paper fastener. 1,688,536; Oct. 23.
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Erlewine, Walter W., Long Beach, Calif., assignor to Marion Machine, Foundry & Supply Company, Marion, Ind. Windlass construction. 1,689,016; Oct. 23.
Erling, Sven J., Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine pulsator. 1,688,863; Oct. 23.
Esselen, Gustavus J., jr., Swampscott, and M. W. Weiss, Boston, Mass., assignors to The Delaware, Lakawanna & Western Coal Co., New York, N. Y. Coal. 1,688,695; Oct. 23.
Evans, Rhys D., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cord fabric. 1,689,119; Oct. 23.
Eveleth, Clarence M., River Forest, Ill. Weather strip. 1,688,458; Oct. 23.
Ewers, Alexander L. (See Gooch, C. W., jr., and Ewers.)
Fairhurst, Isaac J. D., Manchester, Iowa. Chain tightener and fastener. 1,689,120; Oct. 23.
Falconer, Duncan R., Camden, N. J. Pump. 1,689,071; Oct. 23.
Fansteel Products Company. (See Austin, M. M., and Balke, assignors.)
Fansteel Products Company. (See Engle, Edgar W., assignor.)
Farmer, John F., assignor to W. and C. J. Wonders, Indianapolis, Ind. Hitch for engine lifters. 1,689,170; Oct. 23.
Febrey, Harold H., Newark, N. J., assignor to The American Steel and Wire Company of New Jersey. Rail bond. 1,688,696; Oct. 23.
Fedders Manufacturing Company. (See Slagel, Franklin G., assignor.)
Feilcke, Karl, Indianapolis, Ind. Windshield regulator. 1,688,578; Oct. 23.
Ferdon, William S., Omaha, Nebr. Electric control apparatus. 1,689,121; Oct. 23.
Ferguson, Berlin S., assignor to The Marion Steam Shovel Company, Marion, Ohio. Bail for excavating dippers and the like. 1,689,122; Oct. 23.
Fewkes, Joseph T., Philadelphia, Pa. Plant container. 1,689,017; Oct. 23.
Finley, Sam E., Atlanta, Ga. Constructing wearing surfaces or roads and the like. 1,689,123; Oct. 23.
Fiscalini, George A., San Luis Obispo, Calif. Oil burner. 1,688,538; Oct. 23.
Fischer, C. A. (See Hays, B. D, assignor.)
Fischer, Frank, Larchmont, N. Y., and A. F. Van Pelt, Interlaken, N. J., assignors to Grant Oil Burner Corporation, Wilmington, Del. Electrical circuit closer. 1,688,697; Oct. 23.
Fischer, Frank, Larchmont, N. Y., and A. F. Van Pelt, Interlaken, N. J., assignors to Grant Oil Burner Corporation of Delaware, New York, N. Y. Electrical spark ignition means for burners. 1,688,864; Oct. 23.
Fischer, Johannes. Cologne-Holweide, Germany. Price scale. 1,688,539; Oct. 23.
Fisher, George P. (See Gunther, F. W., and Fisher.)
Fitzgerald, John E., Providence, R. I. Detachable ornament setting. 1,689,124; Oct. 23.
Fleischmann Company, The. (See Ransohoff, Fred, assignor.)
Fletcher, Minos L., Nashville, Tenn. Goblet. Des. 76,673; Oct. 23.
Flook, George. (See Goldsworthy, N. H., and Flook.)
Florman, Irving, New York, N. Y. Body for a portable cigarette and cigar lighter. 76,674; Oct. 23.
Foerch, Julia, Wilkes-Barre, Pa. Woman's garment. 1,689,125; Oct. 23.
Ford, Edward, Plate Glass Company, The. (See Fowler, Ival G., assignor.)
Forward, William M., assignor to Postum Company, Incorporated, Battle Creek, Mich. Feeder for blank scoring and slotting machines. 1,688,459; Oct. 23.
Fowler, Emmett L., assignor of one-half to J. S. Privott, Washington, D. C. Extractor for removing bushings and the like. 1,688,460; Oct. 23.
Fowler, Ival G., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Conveyer. 1,688,698; Oct. 23.
Fox, Martin, assignor to The Seng Company, Chicago, Ill. Adjustable stool. 1,688,415; Oct. 23.
Fox, Stockell & Company. (See Valle-Jones, Frederick W., assignor.)
Foxboro Company, The. (See Bristol, Edgar H., assignor.)
Francis, Jacob R. (See Heginbottom, W., and Francis.)
Franklin Simon & Company. (See Burns, Katherine E., assignor.)
Franko, Stephen D., assignor of one-half to H. E. Dyer, Havre de Grace, Md. Cleaning composition. 1,688,540; Oct. 23.
Franks, Harry H., Tulsa, Okla. Belt placer. 1,688,579; Oct. 23.
Freysinger, John B., New Britain, Conn., assignor to Krischer's Manufacturing Company, Brooklyn, N. Y. Belt buckle. 1,688,328; Oct. 23.
Frick Company. (See Small, N. M., and Buehler, assignors.)
Fried. Krupp Aktiengesellschaft. (See Böhm, Georg, assignor.)
Frigidaire Corporation. (See McCuen, Charles L., assignor.)
Froidevaux, Marcel, assignor to Kustner Freres & Cie. Société Anonyme, Geneva, Switzerland. Packing container. 1,689,018; Oct. 23.
Frost, Max. (See Stone, A., and Frost.)
Fullerton, Fred W. L., Maplewood, N. J., and M. A. Bellone, St. Albans, assignor to Full-O-Lite Company, Inc., New York, N. Y. Lighting fixture. 1,689,019; Oct. 23.
Full-O-Lite Company. (See Fullerton, F. W. L., and Bellone, assignors.)
Gagneau, Paul, Paris, France. Magazine for tickets. 1,688,865; Oct. 23.
Gall, John F. (See Hirsch, J. H., and Gall.)
Gardner-Denver Company, The. (See Clark, Omar E., assignor.)
Gardner-Denver Company, The. (See Terry, Edward F., jr., assignor.)
Gardner, Prince A., jr., St. Louis, Mo. Cigarette case. 1,688,699; Oct. 23.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,688,807; Oct. 23.
Gas Refrigeration Corporation. (See Bruehl, Lawrence, assignor.)
Gass, Conrad P., Tacoma, Wash. Garment hanger. 1,689,126; Oct. 23.
Gauss, Henry F., Moscow, Idaho, assignor to Heine Boiler Company, St. Louis, Mo. Air heater. 1,688,618; Oct. 23.
Gauss, Henry F., Moscow, Idaho, assignor to Heine Boiler Company, St. Louis, Mo. Regenerative air heater. 1,688,700; Oct. 23.
Gehrts, Friedrich, Karlshorst, near Berlin, Germany, assignor to General Electric Company. Amplifier connection. 1,688,701; Oct. 23.
Gellert, Isaac S. (See Najder, Kasimir W., assignor.)
Gem Engineering Corporation, The. (See Barnes, Llewellyn T., assignor.)
General Cable Company. (See Atkinson, Ralph W., assignor.)
General Electric Company. (See Bergman, J., and Manders, assignors.)
General Electric Company. (See Brown, Walter W., assignor.)
General Electric Company. (See Burrows, Williams R., assignor.)
General Electric Company. (See Cook, Ellsworth, D., assignor.)
General Electric Company. (See Daley, Raymond E. J., assignor.)
General Electric Company. (See Eby, Eugene D., assignor.)
General Electric Company. (See Ellis, Alvarado L. R., assignor.)
General Electric Company. (See Gehrts, Friedrich, assignor.)
General Electric Company. (See Heisler, Charles L., assignor.)
General Electric Company. (See Hutt, Leonard P., assignor.)
General Electric Company. (See Moody, Walter S., assignor.)
General Electric Company. (See Otis, A. N., and Woolston, assignors.)
General Electric Company. (See Parsons, Robert J., assignor.)
General Electric Company. (See Paul, William E., assignor.)
General Electric Company. (See Pohl, R., and Reist, assignors.)
General Electric Company. (See Pohl, Robert, assignor.)
General Electric Company. (See Steenstrup, Christian, assignor.)
Gerber, David, Baltimore, Md. Edible container. Des. 76,675; Oct. 23.
Gerber, David, Baltimore, Md. Ice-cream cone. Des. 76,676; Oct. 23.
Gerber, David, Baltimore, Md. Ice-cream cone. Des. 76,677; Oct. 23.
Gerber, David, Baltimore, Md. Ice-cream cone. Des. 76,678; Oct. 23.
Gerber, David, Baltimore, Md. Ice-cream cone. Des. 76,679; Oct. 23.
Gerber, David, Baltimore, Md. Ice-cream cone. Des. 76,680; Oct. 23.
Gernandt, John W., San Diego, Calif. Combined vacuum cleaner and polisher. 1,688,580; Oct. 23.
Ghrist, David M., Glendale, Calif. Sinus head clamp. 1,688,382; Oct. 23.

Gibson, Albert E., Springfield, Pa., assignor to The Dentists' Supply Company. Machine for applying solder to pins. 1,688,490; Oct. 23.

Gilbert, John J., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling. 1,689,020; Oct. 23.

Gill, James H. W., Heacham, England. Axial-flow hydraulic machine. 1,688,808; Oct. 23.

Gill, James H. W., Heacham, England. Axial-flow hydraulic machine. 1,688,809; Oct. 23.

Gilles, Benjamin F., assignor to G. B. Lewis Company, Watertown, Wis. Clinching tool. 1,689,021; Oct. 23.

Gilligan, George H., assignor to U. S. Ring Traveler Company, Providence, R. I. Support for ring travelers. 1,689,127; Oct. 23.

Gilligan, George H., assignor to U. S. Ring Traveler Company, Providence, R. I. Support for ring travelers. 1,689,128; Oct. 23.

Gilligan, George H., assignor to U. S. Ring Traveler Company, Providence, R. I. Support for ring travelers. 1,689,129; Oct. 23.

Gilligan, George H., assignor to U. S. Ring Traveler Company, Providence, R. I. Support for ring travelers. 1,689,130; Oct. 23.

Gilson, Robert M. (See Young, H. S., and Gilson.)

Gladding, Ernest K., assignor to Du Pont Rayon Company, Incorporated, Buffalo, N. Y. Treating artificial fibers. 1,688,702; Oct. 23.

Glassman, Nathan, Brooklyn, N. Y. Toothbrush. 1,688,581; Oct. 23.

Gluck, Julius, New York, N. Y., assignor, by mesne assignments, to Ohmer Fare Register Company, Dayton, Ohio. Initial-charge-increasing mechanism. 1,688,383; Oct. 23.

Gminder, Emil, Reutlingen, Germany. Apparatus for softening, refining, and cleaning entangled and short-fiber material. 1,688,384; Oct. 23.

Godley, Edwin A. (See Grubman, L. J., and Godley.)

Goldberg Brothers Company. (See Ellis, Ervin R., assignor.)

Goldsworthy, Norman H., and G. Flook, Syracuse, assignors to Continental Can Company, Inc., New York, N. Y. Apparatus for drying metal cans. 1,688,541; Oct. 23.

Gooch, Claiborne W., jr., and A. L. Ewers, assignors to Tobacco Stemming Machine Company, Lynchburg, Va. Tobacco handling and stemming machine and method. 1,689,171; Oct. 23.

Goodwin, John H., assignor to W. F. Overly & Son, Greensburg, Pa. Roof structure. 1,689,131; Oct. 23.

Goodyear Tire & Rubber Company, The. (See Evans, Rhys D., assignor.)

Goodyear Tire & Rubber Company, The. (See Haase, Jorgen I., assignor.)

Goodyear-Zeppelin Corporation. (See Schoettel, Eugen, assignor.)

Gordon, Joseph P., Rockford, Ill. Spring-connecting means for belts or straps. 1,688,962; Oct. 23.

Gordon Motor Crib Company. (See Watt, Homer S., assignor.)

Grady, Ernest D., Charlotte, N. C. Addressing machine. 1,688,963; Oct. 23.

Graham, Henry, Ulriksdal, Sweden. Combined clamping and supporting device. 1,689,022; Oct. 23.

Graham, William P., New York, N. Y. Dish or similar article. Des. 76,681; Oct. 23.

Grant Oil Burner Corporation of Delaware. (See Fischer, F., and Van Pelt, assignors.)

Grant, Walter S., St. Louis, Mo. Container. 1,688,703; Oct. 23.

Grant, Walter S., St. Louis, Mo. Container. 1,688,704; Oct. 23.

Gray, Jesse L., Los Angeles, Calif., assignor, by mesne assignments, to L. P. Burgess, D. Daniels, and J. O. Clutter, trustees. Heat treating sucker rods. 1,688,705; Oct. 23.

Greene, Fred E., Berkeley, assignor to A. B. Humphrey Co., Perkins, Calif. Dust sprayer. 1,688,706; Oct. 23.

Gregg, Louis D., Hackensack, N. J. Connecting device. 1,689,023; Oct. 23.

Gregory & Read Company. (See Guilliford, Nicholas L., assignor.)

Grimoin-Sanson, Raoul, Paris, and H. Danel, Argenteuil, France. Manufacture of molded and vulcanized rubber-cork articles. 1,688,491; Oct. 23.

Grimsrud, Gustave, Antelope, Mont. Wrench. 1,689,072; Oct. 23.

Grodd, Gustav. (See Trankowski, B., and Grodd.)

Grossgebauer, John. (See Hollstein, Fritz, assignor.)

Grothe, Arthur A., Chicago, Ill. Vacuum-tube-evacuating apparatus. 1,688,329; Oct. 23.

Grubman, Leo J., Belle Harbor, and E. A. Godley, New York, N. Y. Lumber feeding and manipulating means. 1,688,416; Oct. 23.

Grubman, Leo J., Belle Harbor, N. Y. Molding apparatus. 1,688,417; Oct. 23.

Guilliford, Nicholas L., Peabody, assignor to Gregory & Read Company, Lynn, Mass. Woodworking machine with tubular cutter. 1,688,385; Oct. 23.

Gump, B. F., Co. (See Woodhead, Horace G., assignor.)

Gunther, Franklin W., and G. P. Fisher, Ottawa, Ill., assignors to National Fire Proofing Company, Pittsburgh, Pa. Apparatus for measuring the shrinkage of materials. 1,688,330; Oct. 23.

Haarnägell, Georges, Courbevoie, France. Window for doors of motor cars and the like. 1,689,132; Oct. 23.

Haase, Jorgen I., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method of and machine for perforating laminated fabrics. 1,689,133; Oct. 23.

Hahl, Hans, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Complex antimony compound. 1,688,964; Oct. 23.

Haines, Samuel E. W., Berkeley, Calif. Road sign or signal. 1,688,331; Oct. 23.

Halloran, Patrick J., Boston, Mass. Windshield cleaner. 1,688,386; Oct. 23.

Hamilton, George H., Grand Rapids, and R. A. White, Walker Township, Kent County, assignors to American Seating Company, Grand Rapids, Mich. Seat structure. 1,689,024; Oct. 23.

Hanau, Rudolph L., Buffalo, N. Y. Making dental records. 1,688,492; Oct. 23.

Hancock, William L., assignor to The Murray Company, Dallas, Tex. Saw card. 1,688,418; Oct. 23.

Hand, Carl N., and H. P. Roberts, Nitro, W. Va., assignors to The Rubber Service Laboratories Co., Arkon, Ohio. Catalyzing the formation of thio-ureas. 1,688,707; Oct. 23.

Handlan, Alexander H., St. Louis, Mo. Focusing device. 1,688,619; Oct. 23.

Hansen, Charles C., Forest Park, Ill. Fluid-pressure-operated electric switch. 1,688,866; Oct. 23.

Hansen, Omer A., Green Bay, Wis. Display case. 1,689,134; Oct. 23.

Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson, executor. Metal-working machine. 1,689,135; Oct. 23.

Hanson, Elnar A., executor. (See Hanson, Bengt M. W.)

Haptograph, Inc. (See Beechlyn, John T., assignor.)

Harbison, Clarence B., assignor to The Ohio Steel Foundry Company, Lima, Ohio. Locomotive equalizer rigging. 1,688,419; Oct. 23.

Harbison, Clarence B., assignor to The Ohio Steel Foundry Company, Lima, Ohio. Six-wheel truck. 1,689,025; Oct. 23.

Harker, O. A., jr. (See Mix, T. C., and Miller, assignors.)

Harris, Thomas P., Clarinda, Iowa. Twine holder. 1,688,923; Oct. 23.

Harrison, Douglas M., Dormont, assignor, by mesne assignments, to McKenzie Mortar Company, Pittsburgh, Pa. Preparing product from acetylene-plant waste and the like. 1,688,542; Oct. 23.

Harry, George Y., Wapakoneta, Ohio. Centrifugal honey extractor. 1,688,493; Oct. 23.

Harvey, Mary J., executrix. (See Harvey, William F.)

Harvey, Raymond, New York, N. Y., and H. V. Day, Pequannock Township, Morris County, assignors to The Pantasote Leather Company, Passaic, N. J. Ornamenting sheet material. 1,688,924; Oct. 23.

Harvey, William F., deceased, Lima, N. Y.; M. J. Harvey, executrix. Indenting tools. 1,689,073; Oct. 23.

Hastings, George T., New York, N. Y. Radio attachment for string instruments. 1,689,136; Oct. 23.

Haugen, Ole J., Mapes, N. Dak. Brooder. 1,688,925; Oct. 23.

Hays, B D, Grand Saline, assignor, by mesne assignments, of one-half to C. A. Fischer, Fort Worth, Tex. Securing device for fan pulleys and the like. 1,688,708; Oct. 23.

Hayward Company, The. (See Atkinson, Herbert S., assignor.)

Hazel-Atlas Glass Co. (See Dawson, Haller H., assignor.)

Heany, John A., New Haven, Conn., assignor to World Bestos Corporation, Paterson, N. J. Apparatus for the manufacture of yarn. 1,688,620; Oct. 23.

Heberlein & Co. A. G. (See Bodmer, Albert, assignor.)

Heck, John B., jr., and J. J. Sweeney, Toledo, Ohio. Anæsthetizing. 1,688,332; Oct. 23.

Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Passageway-control mechanism. 1,688,709; Oct. 23.

Heggan, Arthur R., Dover, Del. Pump bleeder. 1,688,420; Oct. 23.

Heginbottom, Walter G., and J. R. Francis, Flint, Mich. Thermostatic heat control for internal-combustion engines. 1,688,387; Oct. 23.

Heiland, Albert H., Seattle, Wash. Card index and signal therefor. 1,688,965; Oct. 23.

Heine Boiler Company. (See Cotton, Alfred, assignor.)

Heine Boiler Company. (See Gauss, Henry F., assignor.)

Heine Boiler Company. (See Spencer, Robert L., assignor.)

Heine Boiler Company. (See Wehmeyer, Clarence W., assignor.)

Heinrich, Walter A., assignor to W. N. Mathews Corporation, St. Louis, Mo. Reel. 1,688,582; Oct. 23.

Heintz, Leo I., assignor to Heintz Manufacturing Company, Philadelphia, Pa. Top for automobile bodies. 1,688,867; Oct. 23.

Heintz Manufacturing Company. (See Heintz, Leo I., assignor.)

Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Inc., New York, N. Y. Frequency arrangement in carrier-wave systems. 1,689,026; Oct. 23.

Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Enameling oven. 1,688,710; Oct. 23.

Helle, Warren W., Hinsdale, Ill. Fish bait. 1,689,027; Oct. 23.

Hemmeler, Louis, Bienne, Switzerland. Magneto-electric lighting machine for cycles and motor cycles. 1,688,810; Oct. 23.

Hendren, Harry A., Sacramento, Calif. Window screen. 1,688,494; Oct. 23.

Henny, Victor, Martinez, Calif., and J. D. Seguy, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for ascertaining the characteristics of flowing liquids. 1,688,811; Oct. 23.

Henry, John L., Albany, Tex. Scooter figure wheeled toy. 1,688,926; Oct. 23.

Henry, John L., Albany, Tex. Figure wheeled toy. 1,688,927; Oct. 23.

Henry, Ray. (See Ellis, A. K., and Henry.)

Hewitt, Ernest W., Stamford, Conn., F. J. Maus, Paterson, N. J., and G. Marx, assignors to The Western Union Telegraph Company, New York, N. Y. Motor-stopping device for telegraph typewriters. 1,688,711; Oct. 23.

Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 76,682; Oct. 23.

Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 76,683; Oct. 23.

Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 76,684; Oct. 23.

Heyman, Wilbert A., New York, N. Y. Producing a chocolate milk composition. 1,689,028; Oct. 23.

Heyman, Wilbert A., New York, N. Y. Chocolate milk composition. 1,689,029; Oct. 23.

Heynacher, Walter. (See Mackenzie, John, assignor.)

Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag frame. Des. 76,685; Oct. 23.

Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag frame. Des. 76,686; Oct. 23.

Highers, Simon C., Dixon Springs, Tenn. End-gate fastener. 1,688,543; Oct. 23.

Hill, Hiram H., Chico, Calif. Nut-cracking machine. 1,688,966; Oct. 23.

Hill Laundry Equipment Co. (See Schrenkeisen, William C., assignor.)

Hire, Merrill J., assignor to Playground & Gymnasium Equipment Company, Minneapolis, Minn. Bob rocker. 1,689,137; Oct. 23.

Hire, Merrill J., Minneapolis, assignor to Playground & Gymnasium Equipment Company, Minneapolis, Minn. Bather's inclined rotary water platform. 1,689,138; Oct. 23.

Hirsch, Jacob H., Atlanta, Ga., and J. F. Gail, Evanston, Ill., assignors to Simmons Company, New York, N. Y. Process and apparatus for making composite mattresses. 1,688,333; Oct. 23.

Hitchings & Company. (See King, Thomas E., assignor.)

Hoe, R., & Co. (See Comiskey, Stanley A., assignor.)

Hoe, R., & Co. (See Sheldon, Edward P., assignor.)

Hoe, R., & Co. (See Zuckerman, Adolph M., assignor.)

Hoffman, Philip C. (See Maxwell, J., Hoffmann, and McCoy.)

Hoffman Specialty Company. (See Simpson, William K., assignor.)

Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Power-actuating mechanism for typewriters. 1,688,334; Oct. 23.

Holland Furnace Company. (See Kolla, John P., assignor.)

Holland, Newman H., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic diaphragm. 1,689,030; Oct. 23.

Holley, George M. (See Welch, George R., assignor.)

Hollstein, Fritz, Hawthorne, N. J., assignor to J. Grossgebauer, Paterson, N. J. Reed for looms. 1,688,495; Oct. 23.

Hollywood Building Supply Co. (See Parker, Henry C., assignor.)

Holmes, George E., Dover, N. H. Printing machine. 1,688,967; Oct. 23.

Holmes, Henry S., New York, assignor to T. E. Murray, Brooklyn, N. Y. Making hubs and the like. 1,688,421; Oct. 23.

Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Cutter chain. 1,689,139; Oct. 23.

Holt, Charles A. (See Smith, Benjamin F., assignor.)

Holtzman, John, assignor of one-half to B. Roman, New York, N. Y. Device for preventing theft or unauthorized use of automobiles. 1,688,496; Oct. 23.

Hooper, Bert L., Lincoln, Nebr. Casting apparatus. 1,688,928; Oct. 23.

Hoover Company, The. (See Smellie, Donald G., assignor.)

Horne, Archibald B., Springfield, Mass. Gymnasium-mat rack. 1,688,583; Oct. 23.

Horton, George T., Chicago, Ill. Gas holder. 1,688,868; Oct. 23.

Horvath, Geza, Highland Park, Mich. Charge-forming device for internal-combustion engines. 1,688,388; Oct. 23.

Horvath, Geza, Highland Park, Mich. Cellular radiator. 1,688,929; Oct. 23.

Hossard, Baptiste, Maspeth, N. Y. Caster. 1,689,031; Oct. 23.

Hotchkiss, E. H., Company, The. (See Polzer, Fridolin, assignor.)

Hotz, John P., assignor of one-half to M. A. Wood, Boston, Mass. Support for tire chains. 1,688,712; Oct. 23.

Hubbell, Harvey, deceased, Bridgeport, Conn.; L. E. Hubbell, executrix. Signal system. 1,688,631; Oct. 23.

Hubbell, Louie E., executrix. (See Hubbell, Harvey.)

Huber, Clinton J., Seattle, Wash. Artificial teeth. 1,688,621; Oct. 23.

Huestis, Thomas B., assignor to National India Rubber Company, Bristol, R. I. Coating machine. 1,688,632; Oct. 23.

Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Pressure-feeding apparatus. 1,688,812; Oct. 23.

Hughes, Walter D., Santa Rosa, Calif. Tool for repairing starter mechanisms. 1,689,074; Oct. 23.

Hugues, Louis J. (See Russell, C. H. C., Marcotte, and Hugues.)

Hulshizer, George W., Stewartsville, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,688,633; Oct. 23.

Humphrey, A. B., Co. (See Greene, Fred E., assignor.)

Hund, August, Bethesda, Md., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric-crystal oscillator system. 1,688,713; Oct. 23.

Hund, August, Bethesda, Md., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric-crystal apparatus. 1,688,714; Oct. 23.

Hundley, George K., Beckley, W. Va., assignor of one-half to J. Hundley, Noblesville, Ind. Automobile combination signal and dimming lamp. 1,688,497; Oct. 23.

Hundley, James. (See Hundley, George K., assignor.)

Hurley, Edward T., Cincinnati, Ohio. Artistic bronze candlestick or similar article. Des. 76,687; Oct. 23.

Hutchinson, George, assignor to Hutchinson Scale Company, Sheboygan, Wis. Weighing mechanism or scale. 1,688,634; Oct. 23.

Hutchinson Scale Company. (See Hutchinson, George, assignor.)

Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Motor-control mechanism. 1,688,715; Oct. 23.

Hutton, James T. Farmington, N. Mex. Chain connecter. 1,688,461; Oct. 23.

Huwiler, Anton, Basel, Switzerland. Hydraulic power-transmission gear. 1,688,968; Oct. 23.

Hyatt, Samuel W., assignor to Indiana Lamp Corporation, Connersville, Ind. Lamp focusing and adjusting device. 1,688,544; Oct. 23.

Hyde, Reed W., Summit, N. J., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treating earthy minerals. 1,688,422; Oct. 23.

Hyland, Alfred E., Keeseville, N. Y. Spring hinge. 1,688,930; Oct. 23.

Ice Machinery Corporation. (See Aldinger, Jacob G., assignor.)

Ide, Harry H., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Variable condenser. 1,688,818; Oct. 23.

Indiana Lamp Corporation. (See Hyatt, Samuel W., assignor.)

Individual Drinking Cup Company. (See Wessman, Edwin G., assignor.)

Ingersoll-Rand Company. (See Hulshizer, George W., assignor.)

International Combustion Engineering Corporation. (See Lundgren, Edwin, assignor.)

International Nickel Company, The. (See McKnight, Charles, jr., assignor.)

International Precipitation Company. (See McGrane, Norman M., assignor.)

International Precipitation Company. (See Schmidt, Walter A., assignor.)

International Silver Company. (See Theobald, Jean G., assignor.)

Irby, John E., Spokane, Wash. Fire alarm. 1,688,635; Oct. 23.

Iversen, Lorenz, assignor to Mesta Machine Company, Pittsburgh, Pa. Rolling mill. 1,688,335; Oct. 23.

Jackson, Jesse J. (See Dailey, J. T., and Jackson.)

Jacobsen, Karl O. F., Seattle, Wash. Swimming shoe. 1,688,498; Oct. 23.

Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 76,688; Oct. 23.

Jardine, Robert, Detroit, Mich., Rich Tool Company, Chicago, Ill. Making valves. 1,688,423; Oct. 23.

Jaschun, Herman, Brooklyn, assignor of one-half to R. Winston, New York, N. Y. Folding license plate. 1,689,140; Oct. 23.

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jennings, Oliver S., Mansfield, Ohio., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker apparatus. 1,688,584; Oct. 23.

Jerabek, Benard D., Hutchinson, Minn. Wheel remover. 1,688,716; Oct. 23.

Johansen, Harry C., Chicago, Ill., assignor to Sullivan Machinery Company. Blank-heating furnace. 1,688,814; Oct. 23.

Johnson Brothers Engineering Corp. (See Johnson, Harry L., assignor.)

Johnson, Harry L., Indianapolis, Ind., assignor to Johnson Brothers Engineering Corp. Tiller for outboard motors. 1,689,032; Oct. 23.

Johnson, Merriam E., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Shield for radio amplifiers or detectors. 1,688,622; Oct. 23.

Johnston, Robert W. (See Daniel, Earle H., assignor.)

Jones, Ellis L., Long Island City, assignor to Sealed Containers Corporation, New York, N. Y. Apparatus for closing and sealing receptacles. 1,688,499; Oct. 23.

Jones, Hilton I., Wilmette, Ill. Mothproofing fabrics. 1,688,717; Oct. 23.
Jones, James C., Brighton, Tenn. Seed-saving attachment for mowing machines. 1,688,969; Oct. 23.
Jones, Sloan A., Springville, Ala. Joint clamp. 1,688,623; Oct. 23.
Jones, Winfield S., and A. E. McLean, Long Beach, Calif. Clamp. 1,688,718; Oct. 23.
Jorgensen, George C., Red Wing, Minn. Bedstead. Des. 76,689; Oct. 23.
Joyce, Richard F., Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for and method of heel-seat lifting. 1,688,462; Oct. 23.
Judd, H. L., Company. (See Vermillion, Raymond H., assignor.)
Judson, Nathaniel, New York, N. Y. Stocking. Des. 76,690; Oct. 23.
Juengst, Charles A., Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn. Art of and machine for assembling books. 1,688,970; Oct. 23.
Jurgensen, August P. (See Chayes, H. E. S., and Jurgensen.)
Kalel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Draft gear. 1,688,389; Oct. 23.
Kading, Charles A. (See Schnitger, Emil R., assignor.)
Kalgren, John E., assignor to The J. R. Clark Co., Minneapolis, Minn. Ironing board. 1,688,636; Oct. 23.
Kalman Steel Company. (See White, William E., assignor.)
Kammerer, William H., Kalamazoo, Mich. Soil-working implement. 1,688,971; Oct. 23.
Kann, William L., deceased, Pittsburgh, Pa., The Bank of Pittsburgh, N. A., administrator. Battery separator. 1,688,336; Oct. 23.
Kanter, William, Brooklyn, N. Y. Baby blanket. 1,688,624; Oct. 23.
Karnes, James C., Buffalo, N. Y. Optical rending device. 1,688,637; Oct. 23.
Kato, Kitaro, Tokyo-Fu, Japan. Projected window. 1,688,545; Oct. 23.
Keller, Henry B., Philadelphia, Pa. Bow and arrow. 1,689,141; Oct. 23.
Kellogg Switchboard and Supply Company. (See Ide, Harry H., assignor.)
Kelm, Otto, Malcom, Iowa. Weed and vine destroyer. 1,688,463; Oct. 23.
Kelvinator Corporation. (See Leonard, Charles H., assignor.)
Kelvinator Corporation. (See Replogle, John R., assignor.)
Kelvinator Corporation. (See Spreen, Charles C., assignor.)
Kelvinator Corporation. (See Whittier, Walter H., assignor.)
Kennedy, Marzo A., assignor to E. A. Russell, Chicago, Ill. Loud-speaker unit. 1,688,625; Oct. 23.
Khetab Corporation et al. (See Sartakoff, Jack D., assignor.)
Kibitz, Frank X. (See La Hodny, W., and Kibitz.)
Kiefer, Edward J., Kew Gardens, N. Y. Holder for glassware, etc. 1,688,424; Oct. 23.
Killip, John J., Astoria, Oreg. Sunshade for automobile windows. 1,688,719; Oct. 23.
Kimball, Frank J., Company. (See Schlegel, Ronald M., assignor.)
King, Leland A., Chicago, Ill. Toy motion-picture device. 1,688,972; Oct. 23.
King, Thomas E., Westfield, assignor to Hitchings & Company, Elizabeth, N. J. Sash operator for greenhouses. 1,688,337; Oct. 23.
Kirk, William C., Indianapolis, Ind. Knockdown convertible stand. 1,688,546; Oct. 23.
Kirshner, Samuel M., Philadelphia, Pa. Installing device for placing reenforcing in concrete. 1,688,973; Oct. 23.
Kissinger, Eugene R., and R. H., Columbus, Ohio. Adjustable striker plate for doors. 1,688,626; Oct. 23.
Kissinger, Roy H. (See Kissinger, Eugene R. and R. H.)
Klages, August, Magdeburg-Sudost, Germany. Treatment of seed. 1,688,720; Oct. 23.
Klausmeyer, David C., Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Automatic positive-feed clutch for drilling machines. 1,688,547; Oct. 23.
Knight, George E., Sacramento, Calif. Pipe wrench. 1,688,931; Oct. 23.
Knudsen, Joachim R. M. (See Yeager, Fay A., assignor.)
Kobash, Louis, Maple Shade, N. J. Ice-can-submerging device. 1,688,815; Oct. 23.
Köhler, Heinrich, Hamburg, Germany. Fountain pen. 1,689,142; Oct. 23.
Kolla, John P., assignor to Holland Furnace Company, Holland, Mich. Warm-air furnace. 1,688,974; Oct. 23.
Koppers Company, The. (See Shaw, Joseph A., assignor.)
Koss, Walter, Elyria, Ohio. Chimney-cleaning device. 1,688,638; Oct. 23.
Kosters, George J., assignor to The Stewart Iron Works Company, Covington, Ky. Visitor's partition for jails and the like. 1,689,172; Oct. 23.
Kovacs, Benjamin, New Brunswick, N. J. Door lock. 1,689,033; Oct. 23.
Kramer, Johannes W., Berlin, Germany. Ear cap. 1,688,721; Oct. 23.
Kraus, Charles E., Grand Rapids, Mich. Rotary engine. 1,688,816; Oct. 23.
Krischer's Manufacturing Company. (See Freysinger, John B., assignor.)
Kroehler Mfg. Co. (See Doyle, Harry F., assignor.)
Kuch, Frederick, assignor to The McLagan Furniture Company, Limited, Stratford, Ontario, Canada. Sound amplifier. 1,688,817; Oct. 23.
Kuehl, Herman W., Chicago, Ill., assignor to Brass Products Company. Waste-valve mechanism. 1,689,034; Oct. 23.
Kuehn, Christian, St. Louis, Mo. Table. 1,688,818; Oct. 23.
Kulas, Carl, Leipzig, Germany. Producing plastic and moldable composition. 1,688,500; Oct. 23.
Kuntz, Edward N. C. (See Seals, R. G., and Kuntz.)
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Type-soldering device. 1,688,722; Oct. 23.
Kustner Freres & Cie. Société Anonyme. (See Froidevaux, Marcel, assignor.)
La Hodny, William, assignor to Standard Mirror Company Inc., Buffalo, N. Y. Windshield-wing mounting. 1,689,035; Oct. 23.
La Hodny, William, and F. X. Kibitz, assignors to Standard Mirror Company, Inc., Buffalo, N. Y. Fastener for glass plates. 1,688,425; Oct. 23.
Lalor Fuel Oil System Company, The. (See Lalor, James D., assignor.)
Lalor, James D., assignor to The Lalor Fuel Oil System Company, Inc., Baltimore, Md. Atomizer. 1,688,585; Oct. 23.
Lambert, Henry M., Portland, Oreg., assignor to Lambert Tire & Rubber Co., Barberton, Ohio. Manufacturing tires. 1,688,869; Oct. 23.
Lambert Tire & Rubber Co. (See Lambert, Henry M., assignor.)
Landis & Gyr A.-G. (See Pudelko, Ciccard, assignor.)
Lane, Albert E., Mantua, N. J., assignor to Victor Talking Machine Company. Lid support. 1,688,464; Oct. 23.
Lannon, Franklin P., jr., Sand Springs, Okla., assignor to American Smelting and Refining Company, New York, N. Y. Method and apparatus for producing zinc dust. 1,688,426; Oct. 23.
Lanza, Luigi, Oakland, Calif. Graduated valve. 1,688,390; Oct. 23.
Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Bottle washing and sterilizing apparatus. 1,688,501; Oct. 23.
Larson, John K., Portland, Oreg. Screw or worm propeller for the propulsion of all kinds of craft for use in water and air. 1,688,639; Oct. 23.
Lassle, David J., Wishek, N. Dak. Cream-can-cover holder. 1,688,465; Oct. 23.
Lathrop-Hoge Gypsum Construction Company. (See Lathrop, Jay C., assignor.)
Lathrop, Jay C., assignor to Lathrop-Hoge Gypsum Construction Company, Cincinnati, Ohio. Roof and floor construction. 1,688,723; Oct. 23.
Lebrecht, Alfred, Nuremberg, Germany, assignor to L. Auerbach & Co., Furth, Germany. Bronze-stamping mill. 1,688,548; Oct. 23.
Leck, John, assignor of one-half to W. A. Dyer, Escondido, Calif. Centering tool. 1,688,819; Oct. 23.
Ledig, Kurt K., assignor to American Platinum Works, Newark, N. J. Determining the area and angle of openings in perforated spray heads. 1,688,427; Oct. 23.
Lee, Charles H., Los Angeles, Calif., assignor of one-half to L. J. Monson, Fargo, N. Dak. Ring. Des. 76,691; Oct. 23.
Lehman, Ogden R., Springfield, Ohio. Traffic-light control. 1,689,075; Oct. 23.
Leiss, Paul E., Youngstown, Ohio. Water softening. 1,689,036; Oct. 23.
Leon, Lewicki J., West Chicago, Ill. Loop for bird-cage stands. Des. 76,692; Oct. 23.
Leon, Lewicki J., West Chicago, Ill. Loop for bird-cage stands. Des. 76,693; Oct. 23.
Leon, Lewicki J., Chicago, Ill. Bird cage. 1,688,502; Oct. 23.
Leonard, Charles H., Grand Rapids, assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Rear icing door for refrigerators. 1,688,870; Oct. 23.
Leonard, Charles H., Grand Rapids, assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Universal water-cooler connection. 1,688,871; Oct. 23.
Lepow, Max, assignor to The H. A. Wilson Company, Newark, N. J. Finger ring. Des. 76,694; Oct. 23.
Leventhal, Mitchell, Brooklyn, N. Y. Brief-case lock or similar article. Des. 76,695; Oct. 23.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Terminal connecting device. 1,688,640; Oct. 23.
Lewis, G. B., Company. (See Gilles, Benjamin F., assignor.)
Lewis, Harold M., Long Branch, N. J. Duplex wave signalling system. 1,688,872; Oct. 23.
Lewis, James O., and H. R. Pierce, Tulsa, Okla. Apparatus for supplying artificial pressure to oil sand. 1,688,586; Oct. 23.
Lewis, Jasper R., Grace, Mo. Attachment for check-row corn planters. 1,688,724; Oct. 23.
Libbey-Owens Sheet Glass Company, The. (See Drake, John L., assignor.)

Liljedahl, Frans J., Oakland, Calif. Rocking-chair. 1,688,587; Oct. 23.
Lincoln Meter Company, The. (See Drewry, George F., assignor.)
Linde Air Products Company. (See Miller, Samuel W., assignor.)
Lins, Christian J. (See Zavitovsky, E., and Lins.)
Lippert, Walter E., Hewlett, assignor to Samuel Bonat & Bros., New York, N. Y. Pedestal dome for permanent-hair-waving machines. Des. 76,696; Oct. 23.
Llauradó, Bartolomé, Santiago, Cuba. Electric lamp. 1,688,549; Oct. 23.
Lockrow, Laurice L., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical measuring apparatus. 1,688,932; Oct. 23.
Locomotive Firebox Company. (See Nicholson, John L., assignor.)
Logwood, Charles V., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y. Electrical signal system. 1,688,820; Oct. 23.
Lomax, Clarence E., Oak Park, and N. H. Saunders, Homewood, Ill., assignors to Reserve Holding Company, Kansas City, Mo. Automatic telephone system. 1,688,588; Oct. 23.
Long, Edward A., New Castle, Pa. Attachment for concrete-block machines. 1,688,627; Oct. 23.
Lorenz, C., Aktiengesellschaft. (See Bock, Walther, assignor.)
Lorenz, William A., assignor to The Otaka Fabric Company, West Hartford, Conn. Machine for making elastic paper. 1,689,037; Oct. 23.
Lösel, Franz, Brunn, Czechoslovakia. Multistage disk-wheel turbine. 1,688,933; Oct. 23.
Loynes, Owen H. (See Demarest, C. S., and Loynes.)
Luckenbach, Royer, Brooklyn, N. Y. Flotation oil. 1,688,975; Oct. 23.
Luetscher, Oliver P., Pittsburgh, Pa. Stoker. 1,688,338; Oct. 23.
Lukachovic, Joseph C., Chicago, and H. C. Peters, Oak Park, Ill. Carriage for concrete mixers and distributors. 1,689,143; Oct. 23.
Lum, George R., assignor to Western Electric Company, Incorporated, New York, N. Y. Audiphone. 1,688,976; Oct. 23.
Lunati, Peter J., Memphis, Tenn. Turntable lift. 1,689,144; Oct. 23.
Lunati, Peter J., Memphis, Tenn. Turntable lift. 1,689,145; Oct. 23.
Lundberg, Olof, Saltsjobaden, Sweden, and J. M. Bernström, Arabia, Helsingfors, Finland. Water-closet. 1,688,977; Oct. 23.
Lundgaard, Ivar, Hartford, Conn., assignor, by mesne assignments, to Devon Manufacturing Company, Boston, Mass. Refrigerating machine. 1,688,589; Oct. 23.
Lundgren, Edwin, Frederick, Md., assignor to International Combustion Engineering Corporation, New York, N. Y. Furnace-wall structure. 1,688,339; Oct. 23.
Lunz, George A., Buffalo, N. Y. Spring suspension for vehicles. 1,689,038; Oct. 23.
Lynch, Patrick H., assignor to The John A. McKay Manufacturing Company, Inc., Dunn, N. C. Cotton planter. 1,688,934; Oct. 23.
Macbeth, Bruce, Engine Company, The. (See Bassett, Alvin J., assignor.)
Machlett, Raymond R., New York, N. Y., assignor to Rainbow Light, Inc. Neon tube. 1,689,146; Oct. 23.
Mackenzie, John, assignor of one-half to W. Heynacher, Minneapolis, Minn. Gas burner. 1,688,641; Oct. 23.
Magazzini, John, New York, and F. J. Dowd, Suffern, N. Y. Faucet. 1,688,391; Oct. 23.
Maher, Joseph, Stockton, Ill. Brake-valve-bleeding device. 1,689,077; Oct. 23.
Mahler, John J., New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last. 1,688,466; Oct. 23.
Majewski, Stanley, Chicago, Ill. Camp stove. Des. 76,697; Oct. 23.
Maley, Thomas C., assignor to Ohmer Fare Register Company, Dayton, Ohio. Bell-ringing mechanism. 1,688,392; Oct. 23.
Malleable Iron Fittings Company. (See Pickop, George B., assignor.)
Manders, Theodorus J. J. A. (See Bergmans, J., and Manders.)
Manker, Forrest W., Jackson Heights, N. Y., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Furnace. 1,688,393; Oct. 23.
Manker, Forrest W., Jackson Heights, N. Y., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Sheet and pair heating furnace. 1,688,394; Oct. 23.
Manning Manufacturing Company (Incorporated), et al. (See Brooks, Clarence H., assignor.)
Manthe, Archie. (See Rose, H. D., and Manthe.)
Marcotte, Oscar F. (See Russell, C. H. C., Marcotte, and Hugues.)
Marion Machine, Foundry & Supply Company. (See Eriewine, Walter W., assignor.)
Marion Steam Shovel Company, The. (See Ferguson, Berlin S., assignor.)
Marron, Paul F., Santa Barbara, Calif. Arch-support marker. 1,689,040; Oct. 23.
Marsden, George, Los Angeles, Calif. Vending machine. 1,689,039; Oct. 23.
Marshall, Ira W., assignor to Blaw-Knox Company, Pittsburgh, Pa. Adjustable leg extension for towers. 1,688,340; Oct. 23.
Martin, Scott O., Denver, Colo. Ditching plow. Re17,117; Oct. 23.
Marx, George. (See Hewitt, E. W., Maus, and Marx.)
Masl, Emil F. (See Richardson, W. H., and Masl.)
Mason, Howard, Saxonville, Mass. Woven pile fabric. 1,688,341; Oct. 23.
Matchett, George H., Cleveland, Ohio. Periodical-vending machine. 1,688,821; Oct. 23.
Matechik, Joseph, Weatherly, Pa. Piston-ring tool. 1,688,467; Oct. 23.
Matthews, W. N., Corporation. (See Heinrich, Walter A., assignor.)
Mattison, Norman D., New York, N. Y. Arch-controlling device. 1,688,642; Oct. 23.
Maus, Frank J. (See Hewitt, E. W., Maus, and Marx.)
Maxwell, John P. C. Hoffmann, and C. E. McCoy, assignors, by mesne assignments, to Virginia-Carolina Chemical Corporation, Richmond, Va. Preparing purified phosphoric acid. 1,688,822; Oct. 23.
Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Grindstone. 1,688,468; Oct. 23.
McCallum, John, Glasgow, and H. P. H. Anderson, Calderbank, Scotland. Reciprocating pump. 1,688,978; Oct. 23.
McCann, Clyde F., San Francisco, Calif. Machine switching system for telephone exchanges. 1,688,725; Oct. 23.
McChesney, Horace B., Montclair, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Apparatus for testing the aptitude of keyboard operators. 1,688,935; Oct. 23.
McClobd, Edward H., Columbus, assignor to The Central Brass and Fixture Company, Springfield, Ohio. Bumper. 1,689,076; Oct. 23.
McCloud, Edward H., Columbus, assignor to The Central Brass & Fixture Company, Springfield, Ohio. Automobile bumper. 1,689,147; Oct. 23.
McCloud, Edward H., Columbus, assignor to The Central Brass Fixture Company, Springfield, Ohio. Automobile bumper and tire carrier. 1,689,148; Oct. 23.
McCloud, Edward H., Columbus, assignor to The Central Brass & Fixture Company, Springfield, Ohio. Automobile spare-wheel carrier and bumper. 1,689,149; Oct. 23.
McCormick, Harold V., Long Beach, assignor to Shur Loc Elevator Safety Co. Inc., New York, N. Y. Elevator. 1,688,823; Oct. 23.
McCoy, Clarence E. (See Maxwell, J., Hoffmann, and McCoy.)
McCuen, Charles L., Chicago, Ill., assignor, by mesne assignments, to Frigidaire Corporation. Pump for refrigerating apparatus. 1,688,342; Oct. 23.
McDonald, G. F., et al. (See Cottingham, John W., assignor.)
McDowell, J. J., et al. (See Cottingham, John W., assignor.)
McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Sandwich tray or similar article. Des. 76,698; Oct. 23.
McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Console bowl or similar article. Des. 76,699; Oct. 23.
McGee, Frank R., Steubenville, Ohio. Checkerwork for regenerative chambers. 1,689,041; Oct. 23.
McGee, Frank R., Steubenville, Ohio. Hot-blast stove. 1,689,042; Oct. 23.
McGrane, Norman M., Long Beach, assignor to International Precipitation Company, Los Angeles, Calif. Recovery of potassium chloride. 1,688 873; Oct. 23.
McKane-Lins Company. (See Zavitovsky, E., and C. Lins, assignors.)
McKay, John A., Manufacturing Company, The. (See Lynch, Patrick H., assignor.)
McKee, Ralph H., New York, N. Y. Hydrolysis of methyl chloride. 1,688,726; Oct. 23.
McKenzie Mortar Company. (See Harrison, Douglas M., assignor.)
McKesson & Robbins, Incorporated. (See Danco, Leon A., assignor.)
McKnight, Charles, jr., Sewickley, Pa., assignor to The International Nickel Company, New York, N. Y. Making alloy steels. 1,689,043; Oct. 23.
McLagan Furniture Company, The. (See Kuch, Frederick, assignor.)
McLauthlin, George T., Company. (See Dodd, John W., assignor.)
McLean, Anthony E. (See Jones, W. S., and McLean.)
McLean, Vernon B., Buffalo, N. Y. Machine for cleaning dust-collector tubes. 1,688 936; Oct. 23.
McWane, James R., Birmingham, Ala. Cast-iron pipe. 1,688,727; Oct. 23.
McWane, James R., Birmingham, Ala. Supporting cores in molds in the manufacture of tubular castings. 1688,728; Oct. 23.
Mead, Homer A., Turlock, Calif. Pliers. 1,688,729; Oct. 23.
Mears, Joseph A., assignor to Wired Radio, Inc., New York, N. Y. Sound reproducer. 1,688,730; Oct. 23.
Melco Engineering Corporation. (See Meyers, Sidney E., assignor.)
Mendelsohn, Irving, New York, N. Y. Automatic station indicator for trains. 1,688,979; Oct. 23.
Mensch, Charles H., Boyertown, Pa. Fastener. 1,689,150; Oct. 23.
Mercer, George W. (See Mercer, Russell G. and G. W.)
Mercer, Russell G., San Francisco, and G. W. Mercer, Covina, Calif. Clamp. 1,689,078; Oct. 23.
Mercer, Russell G. and G. W., San Francisco, Calif. Concrete clamp. 1,689,151; Oct. 23.

Mergott, J. E., Co. (See Hlering, William C., assignor.)
Merley, Sylvan R., Dover, N. J., assignor to Doherty Research Company, New York, N. Y. Dehydration of alcohol. 1,688,731; Oct. 23.
Mesta Machine Company. (See Iversen, Lorenz, assignor.)
Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Internal-combustion engine. 1,688,550; Oct. 23.
Metrewitz, Charles. Chicago, Ill. Washing machine. 1,688,732; Oct. 23.
Metrewitz, Charles, Chicago, Ill. Drain board for wringers. 1,688,733; Oct. 23.
Meyer, Adolph, assignor of one-third to H. A. Elflein and one-third to F. C. Elflein, Woodhaven, N. Y. Lifting and carrying device. 1,689,044; Oct. 23.
Meyer, Arthur S. (See Murfey, G. A., and Meyer.)
Meyers, Sidney E., Buffalo, N. Y., assignor to Melco Engineering Corporation. Oil burner. 1,688,395; Oct. 23.
Miescher, Karl, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Derivatives of quinoline carboxylic acids and making same. 1,688,469; Oct. 23.
Miessner, William O., Milwaukee, Wis. Theme finder. 1,688,824; Oct. 23.
Mlano Furniture Company. (See Heyman, Joseph J., assignor.)
Miles, James C. (See Teare, Albert R., assignor.)
Miller, Charles Z., Fort Scott, Kans. Railway signal. 1,688,734; Oct. 23.
Miller, Frederick B., Scottdale, Pa. Apparatus for mining. Re17,109; Oct. 23.
Miller, Macon D. (See Nix, T. C., and Miller.)
Miller, Samuel W., Hollis, N. Y., assignor to Linde Air Products Company. Multiplate vertical wall. 1,688,980; Oct. 23.
Mills, Chester B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Thrust bearing for gyro-compass rotors. 1,688,825; Oct. 23.
Mills, Frank W., Chicago, Ill. Game of skill. 1,688,590; Oct. 23.
Miner, Claude G., Berkeley, Calif. Producing phosphorous chloride. 1,688,503; Oct. 23.
Miner, Claude G., Berkeley, Calif. Producing anhydrous aluminum halides and nitrogen by-products. 1,688,504; Oct. 23.
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Minor, Joseph W., Maplewood, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Neutralizing alternating currents. 1,688,735. Oct. 23.
Mitchell, Robert B., assignor to Union Steel Products Company, Albion, Mich. Anchoring element for concrete construction. 1,688,981; Oct. 23.
Mitton, Robert E., Salt Lake City, Utah. Steering, propelling, and braking mechanism for vehicles. 1,688,591; Oct. 23.
Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. 1,688,736; Oct. 23.
Moody, Walter S., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. 1,688,737; Oct. 23.
Moore, Frank S. (See Smitley, L. E., and Moore.)
Moore, Lou Q., Pueblo, Colo. Car seal. 1,688,738; Oct. 23.
Moore, Lou Q., Pueblo, Colo. Car seal. 1,688,739; Oct. 23.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Brake-operating mechanism. 1,688,740; Oct. 23.
Mollns, Walter E. Deptford, London, England. Apparatus for feeding cigarettes and articles of a similar shape. 1,688,982; Oct. 23.
Moll, Otto G., Detroit, Mich. Combined primer, fuel economizer, and humidifier. 1,688,343; Oct. 23.
Monson, Leigh J. (See Lee, Charles H., assignor.)
Montgomery, Leonard W., Amarillo, Tex. Automobile snubber. 1,688,592; Oct. 23.
Moran, Henry, London, England. Mechanism for actuating change-speed gears. 1,689,045; Oct. 23.
Morgan Blodgett Morgan, Inc. (See Morgan, Porter S., assignor.)
Morgan, Godfrey, Buffalo, N. Y. Pipe cleaner. 1,688,874; Oct. 23.
Morgan, John G. Y. D. (See Bendixen, Niels, assignor.)
Morgan, Lewis J., assignor of one-fourth to H. M. Strong, Syracuse, N. Y. Automobile body, door, and window construction. 1,688,937; Oct. 23.
Morgan, Porter S., Norwalk, Conn., assignor to Morgan Blodgett Morgan, Inc., New York, N. Y. Door check and closer. 1,688,428; Oct. 23.
Morris, Paul D., Berlin, Md. Loop aerial. 1,688,875; Oct. 23.
Morrison, James, assignor to The Owens Bottle Company, Toledo, Ohio. Bottle. 1,688,396; Oct. 23.
Morrow, Percy K., and R. E. Wetmore, Seattle, Wash. Burglar alarm. 1,688,628; Oct. 23.
Mosler Safe Company, The. (See Bellamore, D. H., and Bartels, assignors.)
Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Strainer screen and making same. 1,688,630; Oct. 23.
Mueller, Philip, and A. C. Schuermann, deceased, by H. Schuermann, executrix, assignors to A. Mueller, trustee Decatur, Ill. No-slip flange. 1,688,629; Oct. 23.
Muhlfelder, Samuel, et al. (See Phillips, Ross M. G., assignor.)
Mulder, Jacob C., Oakland, Calif. Grease-measuring device. 1,688,505; Oct. 23.
Muller, C. H. F., Rontgenrohrenfabrik. (See Daumann, Karl W., assignor.)
Muntwyler, Ernst, Lucerne, Switzerland. Windshield attachment. 1,688,344; Oct. 23.
Murakami, Yasukichi, Broome, Western Australia, Australia. Diving dress. 1,689,079; Oct. 23.
Murden, William B., Newark, N. J. Strainer. 1,688,429; Oct. 23.
Murfey, Gardner A., and A. S. Meyer, Cleveland Heights, assignors to The Browning Company, Cleveland, Ohio. Steering mechanism for cranes. 1,688,643; Oct. 23.
Murphy, Fred K., and R. W. Retterer, Indianapolis, Ind. Fluid-operable lubricator and feeder for engines. Re17,110; Oct. 23.
Murray Company, The. (See Hancock, William L., assignor.)
Murray, Thomas E. (See Holmes, Henry S., assignor.)
Mursch, John, and C. F. Schutte, Utica, assignors to Buffalo Hammer Mill Corporation, Buffalo, N. Y. Centrifugal fan. 1,688,345; Oct. 23.
Musso, Giuseppe. Habana, Cuba. System of electrical transmission. 1,688,346; Oct. 23.
Mutual Orange Distributors. (See Post, Ethel L., assignor.)
Nachod, Carl P., assignor to Nachod Signal Company, Incorporated, Louisville, Ky. Periodic circuit controller. 1,688,826; Oct. 23.
Nachod Signal Company. (See Nachod, Carl P., assignor.)
Najder, Kasimir W., Royal Oak, assignor of one-forth to I. S. Gellert, Detroit, Mich. Sleeve-valve engine. 1,688,741; Oct. 23.
Nash, Charles B., assignor to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Lavatory bowl. Des. 76,700; Oct. 23.
Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Draft rigging for railway cars. 1,688,593; Oct. 23.
National Aniline & Chemical Co. (See Dieterle, Paul, assignor.)
National Brass Manufacturing Company. (See Wray, Charles F., assignor.)
National Cash Register Company, The. (See Ostendorf, Lawrence C., assignor.)
National Cash Register Company, The. (See Robertson, William H., assignor.)
National Cash Register Company, The. (See Shipley, Bernis M., assignor.)
National Electrical Supply Company. (See Schofield, Samuel T., assignor.)
National Fire Prooding Company. (See Gunther, F. W., and Fisher, assignors.)
National India Rubber Company. (See Hurstis, Thomas B., assignor.)
National Malleable and Steel Castings Company. (See Schwartz, Harry A., assignor.)
National Metal Molding Company. (See Clayton, Martin M., assignor.)
National Vending Service Company. (See Smith, Landon D., assignor.)
Nebel, Ernst O., Philadelphia, assignor to Oscar Nebel Co., Inc., Hatboro, Pa. Stocking. Des. 76,701; Oct. 23.
Nebel, Oscar, Co. (See Nebel, Ernst O., assignor.)
Nelson, Frank, Newkirk, Okla. Spring-lock key. 1,688,742; Oct. 23.
Nelson, John H., Worcester, Mass. Burner. 1,688,827; Oct. 23.
Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Binding post. 1,689,080; Oct. 23.
New Martinsville Glass Mfg. Co. (See McEldowney, Robert E., assignor.)
Niagara Electro Chemical Company, The. (See Baum, Gustav, assignor.)
Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,688,594; Oct. 23.
Nicolson, Alexander M., assignor to Wired Radio, Inc., New York, N. Y. Plane-surface piezo-electric loud speaker. 1,688,743; Oct. 23.
Nicolson, Alexander M., assignor to Wired Radio, Inc., New York, N. Y. Mutiple acoustic device. 1,688,744; Oct. 23.
Niles-Bement-Pond Company. (See Cole, Lyndon C., assignor.)
Niles-Bement-Pond Company. (See Wildhaber, Ernest, assignor.)
Nix, Tommie C, and M. D. Miller, Hazel, Ky., assignors to O. A. Harker, jr., Puryear, Tenn. Self-service store. 1,688,551; Oct. 23.
Nobs, Jacob, Thoune, Switzerland. Self-registering and ticket-distributing personal-weighing scale. 1,688,552; Oct. 23.
Noland, T. W. (See Bolinger, Harvey L., assignor.)
Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Compound lining can ends. 1,688,644; Oct. 23.
Norling, Karl A. P. (See Svensson, K. J., and Norling.)
North East Appliances, Inc. (See Thompson, Russell G., assignor.)
North East Electric Company. (See Dorsey, Farnum F., assignor.)

Nourie, Wendell A., Kankakee, Ill. Belt connecter. Re17,111; Oct. 23.
Novotny, Emil E., Philadelphia, assignor to J. S. Stokes, Spring Valley Farms, Huntingdon Valley Post Office, Pa. Printing plate and making the same. 1,688,645; Oct. 23.
Novotny, Emil E., Philadelphia, assignor to J. S. Stokes, Spring Valley Farms, Huntingdon Valley Post Office, Pa. Printing-plate matrix and making the same. 1,688,646; Oct. 23.
Novotny, Emil E., Philadelphia, assignor to J. S. Stokes, Spring Valley Farms, Huntingdon Valley Post Office, Pa. Correcting printing plates. 1,688,647; Oct. 23.
Novotny, Emil E., Philadelphia, assignor to J. S. Stokes, Spring Valley Farms, Huntingdon Valley Post Office, Pa. Curving printing plates. 1,688,648; Oct. 23.
O. K. Tool Company, The. (See Severson, Ole, assignor.)
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber. 1,688,649; Oct. 23.
O'Hara, Skidmore, assignor to O'Hara Waltham Company, Waltham, Mass. Printing machine. 1,688,470; Oct. 23.
O'Hara Waltham Company. (See O'Hara, Skidmore, assignor.)
Ohio Steel Foundry Company, The. (See Harbison, Clarence B., assignor.)
Ohmer Fare Register Company. (See Gluck, Julius, assignor.)
Ohmer Fare Register Company. (See Maley, Thomas C., assignor.)
Ohmer Fare Register Company. (See Wheelbarger, Albert S., assignor.)
O'Keeffe, Alexis W., Chicago, Ill. Carton. 1,688,983; Oct. 23.
Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Sewing machine. 1,688,938; Oct. 23.
Olpin, Henry C., Spondon, near Derby, England, assignor to Celanese Corporation of America. Dyeing of materials made with or containing cellulose derivatives. 1,688,553; Oct. 23.
Olson, Robert W., Amboy, assignor of one-half to W. M. Bollenbach, Lamberton, Minn. Stalk-lifting attachment for tractors. 1,689,046; Oct. 23.
Orndoff, Herbert W., assignor to The E. V. Benjamin Company, Inc., New Orleans, La. Delivery apparatus. 1,688,397; Oct. 23.
Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Loading and unloading mechanism. 1,688,828; Oct. 23.
Ostendorf, Lawrence C., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,688,939; Oct. 23.
Otaka Fabric Company, The. (See Lorenz, William A., assignor.)
Otis, Albert N., Schenectady, N. Y., and L. F. Woolston, Richmond Heights, Mo., assignors to General Electric Company. Furnace. 1,688,745; Oct. 23.
Otis Elevator Company. (See Davis, Myron P., assignor.)
Overly, W. F., & Son. (See Goodwin, John H., assignor.)
Owens Bottle Company, The. (See Morrison, James, assignor.)
Owens, John S., London, England. Open-front fireplace stove for burning coke. 1,688,430; Oct. 23.
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packer, Warren J., Meriden, Conn. Bottle-cap piercer. 1,689,047; Oct. 23.
Palmer, Adele, et al. (See Scheuer, Alfred A., assignor.)
Palmer, Eli J., Los Angeles, Calif., assignor to California Production Company, Las Vegas, Nev. Float valve. 1,688,876; Oct. 23.
Palmer, Eli J., Los Angeles, Calif., assignor to California Production Company, Las Vegas, Nev. Vlave for flush tanks. 1,688,877; Oct. 23.
Palmer, Silas K., Lake Park, Iowa. Condenser for automobile radiators. 1,688,829; Oct. 23.
Pantasote Leather Company, The. (See Harvey, R., and Day, assignors.)
Parker, Alfred B., Wollaston, assignor to Waldo Bros. and Bond Company, Boston, Mass. Rod coupling. 1,689,173; Oct. 23.
Parker, Charles H., Codsall, England. Apparatus for the distillation of coal and similar carbonaceous substances. 1,689,152; Oct. 23.
Parker, Henry C., Catasauqua, Pa., assignor to Hollywood Building Supply Co. Method of and machine for handling molded concrete blocks. 1,688,650; Oct. 23.
Parkersburg Rig & Reel Company, The. (See Schwemlein, William, assignor.)
Parks, John L., jr., administrator. (See Parks, Joseph L.)
Parks, Joseph L., deceased, by J. L. Parks, jr., administrator, Henderson, N. C. Cotton chopper. Re17,113; Oct. 23.
Parr, George T., St. Paul, Minn., assignor, by mesne assignments, to Pi-Alamoder, Inc., St. Louis, Mo. Ice-cream scoop. 1,688,595; Oct. 23.
Parsons, Robert J., Schenectady, N. Y., assignor to General Electric Company. Turnstile-control mechanism. 1,688,746; Oct. 23.
Passmore, William O., Liverpool, England, assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,688,651; Oct. 23.
Patino, Carlos E., New York, N. Y. Circuit-controlling device. 1,688,878; Oct. 23.
Paul, James R., Charlotte, N. C. Antifreeze composition. 1,689,153; Oct. 23.
Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,688,747; Oct. 23.
Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Transformer. 1,688,748; Oct. 23.
Peacock, James V. L., Columbus, Ga. Tractor-driven skidder. 1,688,984; Oct. 23.
Pearson, Charles H., Brookline, Mass. Fuse. 1,688,652; Oct. 23.
Pearsons, George T., New York, N. Y. Fire extinguisher. 1,688,347; Oct. 23.
Peerless Motor Car Corporation, The. (See Slack, Frederic W., assignor.)
Perfection Stove Company. (See Chadwick, L. S., Resek, and Dahlstrom, assignors.)
Perfection Stove Company. (See Resek, Marc, assignor.)
Perfection Stove Company. (See Resek, M., and Dahlstrom, assignors.)
Perry, John E., Sharon, Pa., assignor to Valley Mould & Iron Corporation, Hubbard, Ohio. Separable hot top for ingot molds. 1,689,174; Oct. 23.
Person, Earl R., assignor to Du Pont Viscoloid Company, Inc., Leominster, Mass. Display card. 1,688,985; Oct. 23.
Peters, Harry C. (See Lukachovic, J. C., and Peters.)
Peters, William A., jr. (See Baker, T., and Peters.)
Petrie, Edward R., New York, N. Y. Whistle. 1,688,348; Oct. 23.
Petrie, Edward R., New York, N. Y. Whistle. 1,688,349; Oct. 23.
Pettis, Clifton D., New York, N. Y. Molding. 1,688,350; Oct. 23.
Pfleger, Johannes, Frankfort-on-the-Main, and A. Albert, Munich, Germany. Production of unsymmetrical arseno compounds. 1,688,351; Oct. 23.
Phillips, Ross M. G., assignor of one-third to S. Muhlfelder and one-third to W. Schoenberger, New Haven, Conn. Detachable band for garments. 1,688,431; Oct. 23.
Pi-Alamoder, Inc. (See Parr, George T., assignor.)
Pickop, George B., New Haven, assignor to Malleable Iron Fittings Company, Branford, Conn. Vibrator. 1,689,154; Oct. 23.
Pierce, Homer R. (See Lewis, J. O., and Pierce.)
Pitts, William B., New York, N. Y., assignor to Whiting-Patterson Company, Inc. Cover paper or the like. Des. 76,702; Oct. 23.
Playground & Gymnasium Equipment Company. (See Hire, Merrill J., assignor.)
Pocock, Sylvester J., assignor of one-half to J. K. Richardson, St. Mary's, Ontario, Canada. Dispenser for lubricating oils. 1,688,352; Oct. 23.
Pohl, Robert, Berlin, Germany, assignor to General Electric Company. Dynamo-electric machine. 1,689,187; Oct. 23.
Pohl, Robert, Berlin, Germany, and H. G. Reist, Schenectady, N. Y., assignors to General Electric Company. Dynamo-electric machine. 1,689,188; Oct. 23.
Pollock, Robert T., Boston, Mass., assignor to Universal Oil Products Company, Chicago, Ill. Cracking oil. 1,688,830; Oct. 23.
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Stapling machine. 1,688,879; Oct. 23.
Pope, Glen L., and A. Cohen, Gretna, Nebr. Fastener for barbers' aprons. 1,688,880; Oct. 23.
Post, Ethel L., Los Angeles, assignor to Mutual Orange Distributors, Redlands, Calif. Advertising pedestal. Des. 76,703; Oct. 23.
Postum Company. (See Forward, William M., assignor.)
Powell, David, Chicago, Ill. Refrigerating apparatus. 1,688,596; Oct. 23.
Pratt & Whitney Company. (See Schramm, Carl, assignor.)
Preston, Frank W., Butler, Pa. Method of and apparatus for annealing glass. 1,689,048; Oct. 23.
Price, Arthur, Freeport, N. Y. Film-carrying strip. 1,688,653; Oct. 23.
Privott, John S. (See Fowler, Emmett L., assignor.)
Proctor & Schwartz, Inc. (See Applegate, Daniel H., jr., assignor.)
Proctor & Schwartz, Incorporated. (See Rhoads, Thomas H., assignor.)
Prosperity Company Inc., The. (See Davis, Ernest, assignor.)
Prosser, Joseph G., Chicago, Ill. Vapor motor or engine. 1,689,049; Oct. 23.
Pryor, Clarence E., Elizabeth, N. J. Bumper. 1,688,432; Oct. 23.
Pudelko, Riccard, Zug, Switzerland, assignor to Landis & Gyr A.-G. Mechanism for driving and controlling electricity meters. 1,688,353; Oct. 23.
Pyratone Products Corporation. (See Sippel, Charles B., assignor.)
Quant, Alice E., New London, Wis. Dishwasher. 1,688,654; Oct. 23.
Radio Corporation of America. (See Alvear, Victor, assignor.)
Radio Corporation of America, The. (See Dowsett, H. M., and Tilley, assignors.)
Radio Corporation of America. (See Tillotson, James, jr., assignor.)
Ragan, Willis E., Atlanta, Ga. Protection against attack by mites or insects. 1,688,597; Oct. 23.
Rainbow Light, Inc. (See Machlett, Raymond R., assignor.)

Ramage, William H., Girard, Ohio, assignor to Valley Mould & Iron Corporation, Sharpsville, Pa. Hot top for ingot molds. 1,689,175; Oct. 23.
Ramsdell, Lyndon O., Peabody, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me. Leather working machine. 1,688,655; Oct. 23.
Ranger, Richard H., Newark, N. J. Radiotelegraphy. 1,688,554; Oct. 23.
Rank, Henry. (See Rank, John and H.)
Rank, John, Minneapolis, Minn., and H. Rank, Pontiac, Mich. Traffic signal. 1,688,398; Oct. 23.
Rankin, Arnold, Portland, Oreg. Clothes-washing machine. 1,688,555; Oct. 23.
Ransohoff, Fred, assignor to The Fleischmann Company, New York, N. Y. Treating molasses. 1,688,831; Oct. 23.
Ranzan, Boris, New York, N. Y. Automatic explosive mechanism. 1,688,986; Oct. 23.
Rasmussen, Charles E. (See Jandus, H. S., and Rasmussen.)
Ratti, Giuseppe, Turin, Italy. Goggles. 1,688,433; Oct. 23.
Rau, Gotthilf. (See Walther, W., and Rau.)
Rawley, Wayne, assignor to Blaw-Knox Company, Pittsburgh, Pa. Pole support. 1,689,050; Oct. 23.
Rawlings Manufacturing Company. (See Whitley, William P., assignor.)
Ray, Arthur J., Cuba, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,688,656; Oct. 23.
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,688,434; Oct. 23.
Ray, George M., Newton Center, Mass. Divided last. 1,688,354; Oct. 23.
Rector, Thomas M., Rutherford, N. J., assignor to Vitapack Corporation, New York, N. Y. Preserving products formed of rubber. 1,688,355; Oct. 23.
Reece Shoe Machinery Company. (See Oliver, John R., assignor.)
Reinhardt, Willard L., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage-battery plate and permanizing the same. 1,866,399; Oct. 23.
Reist, Henry G. (See Pohl, R., and Reist.)
Remington Typewriter Company. (See Selb, George A., assignor.)
Replogle, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Refrigerator. 1,688,881; Oct. 23.
Repper, Theodore A., Swissvale, Pa. Ladle-tilting apparatus. 1,688,657; Oct. 23.
Resek, Marc. (See Chadwick, L. S., Resek, and Dahlstrom.)
Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Heating system. 1,688,658; Oct. 23.
Resek, Marc, Cleveland Heights, and J. A. Dahlstrom, East Cleveland, assignor to Perfection Stove Company, Cleveland, Ohio. Oil-burning apparatus. 1,688,435; Oct. 23.
Reserve Holding Company. (See Lomax, C. E., and Saunders, assignors.)
Retterer, Ray W. (See Murphy, F. K., and Retterer.)
Reynolds, Damian L., assignor of one-half to L. L. Yates, San Francisco, Calif. Refrigerator car. 1,689,081; Oct. 23.
Rhoads, Thomas H., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drying ceramic ware and apparatus therefor. 1,689,082; Oct. 23.
Rice, Louis A., assignor to Bernard Rice's Sons, Inc., New York, N. Y. Picture frame or similar article. Des. 76,704; Oct. 23.
Rice's, Bernard, Sons, Inc. (See Rice, Louis W., assignor.)
Rich Tool Company. (See Jardine, Robert, assignor.)
Richardson, John K. (See Pocock, Sylvester J., assignor.)
Richardson, William H., Roscoe, and E. F. Masi, Chatsworth, Calif. Combination pail and harness. 1,689,051; Oct. 23.
Ries, Oscar M., Toledo, Ohio. Basin mounting. 1,688,987; Oct. 23.
Riesz, Ivan, Weissenfels, Germany. Pulling-over machine. 1,688,556; Oct. 23.
Riley, Daniel E., Detroit, Mich. Attaching light bulbs to reflectors. 1,688,598; Oct. 23.
Rimel, Owen L., Harrisburg, Pa. Knitting machine. 1,688,791; Oct. 23.
Ringel, Elmer C., Alma, Kans. Adjusting device for fan blades. 1,689,083; Oct. 23.
Rittenhouse, Paul L., Chicago, Ill. Display card. 1,689,155; Oct. 23.
Rivers, Henry J., Attleboro, Mass. Safety clasp for watch chains. 1,688,506; Oct. 23.
Roberts, Harold P. (See Hand, C. N., and Roberts.)
Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,688,436; Oct. 23.
Robertson, Albert B. (See Young, C. L., and Robertson.)
Robertson, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,688,940; Oct. 23.
Robinson, Anson, et al. (See Carter, Samuel C., assignor.)
Rogers, Erastus W., Durham, N. C. Stove. 1,689,084; Oct. 23.
Rogers, Homer L., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Noise and vibration reducing device. 1,689,052; Oct. 23.
Rogers Products Co. (See Zabriskie, Charles L., assignor.)
Rolle, Friedrich A. K., Vauxhall, N. J., assignor, by mesne assignments, to Binder Bros., Inc., New York, N. Y. Machine for making articles composed of wire rings or links. 1,688,988; Oct. 23.
Roman, Benjamin. (See Holtzmann, John, assignor.)
Romine, Robert T., Mount Clemens, Mich. Sectional car container. 1,688,437; Oct. 23.
Rooney, Frederick S., New York, N. Y. Apparatus for draining land. 1,688,356; Oct. 23.
Rose, Harve D., and A. Manthe, Wamego, Kans. Heading and elevating machine. 1,688,659; Oct. 23.
Ross, Charles F., Garrett, Ind. Spring. 1,688,749; Oct. 23.
Rothstein, Maurice, Johnstown, Pa. Rosary case. 1,688,471; Oct. 23.
Rouse, H. B., & Company. (See Rouse, Harry B., assignor.)
Rouse, Harry B., assignor to H. B. Rouse & Company, Chicago, Ill. Cutting tool. 1,688,660; Oct. 23.
Royal Typewriter Company. (See Degener, Gustave O., assignor.)
Rubber Service Laboratories Co., The. (See Hand, C. N., and Roberts, assignors.)
Rubber Service Laboratories Co., The. (See Scott, Winfield, assignor.)
Rude, John F., Liberty, Ind. Harrow. 1,689,053; Oct. 23.
Ruffner, Earl, Wichita Falls, Tex. Hand truck. 1,689,156; Oct. 23.
Runyan, William B., assignor to The Dayton Malleable Iron Company, Dayton, Ohio. Method of and apparatus for preparing binding material for cores. 1,688,661; Oct. 23.
Russell, Charles H. C., Kansas City, Mo., O. F. Marcotte, and L. J. Hugues, Topeka, Kans. Ice-bag cap. 1,689,085; Oct. 23.
Russell, Edmund A. (See Kennedy, Marzo A., assignor.)
Russell, Olin F., Los Angeles, Calif. Valve. Re17,115; Oct. 23.
Ryan, Walter D., Schenectady, N. Y. Lens for vehicle lamps. 1,688,557; Oct. 23.
Sage, Richard W., and H. R. Boughner, Augusta, Kans. Sand-reel-operating mechanism. 1,688,599; Oct. 23.
Sahr, Frank, Columbus, Ohio. Device for attaching shoe soles to the uppers. 1,689,157; Oct. 23.
Sallinger, Morris, assignor of one-half to E. D. Stein, New York, N. Y. Clock dial. Des. 76,705; Oct. 23.
Salterini, John B., New York, N. Y. Floor lamp. Des. 76,706; Oct. 23.
Salterini, John B., New York, N. Y. Bridge lamp. Des. 76,707; Oct. 23.
Salterini, John B., New York, N. Y. Table lamp. Des. 76,708; Oct. 23.
Salterini, John B., New York, N. Y. Bridge lamp. Des. 76,709; Oct. 23.
Salterini, John B., New York, N. Y. Table lamp. Des. 76,710; Oct. 23.
Samuels, Joseph, Toronto, Ontario, Canada. Bottle cooler. 1,689,054; Oct. 23.
Sanders, Morris B., Little Rock, Ark. Recording device. 1,689,055; Oct. 23.
Sann, Otto, Johnstown, Pa. Mine car. 1,689,056; Oct. 23.
Sargent & Company. (See Shaw, John H., assignor.)
Sartakoff, J. D., Corporation et al. (See Sartakoff, Jack D., assignor.)
Sartakoff, Jack D., assignor of one-half to J. D. Sartakoff Corporation and one-half to Khetah Corporation, New York, N. Y. Bath thermometer. 1,688,832; Oct. 23.
Saunders, Nathan H., Cambridge, Wis. Extension-rim attachment. 1,688,989; Oct. 23.
Saunders, Norman H. (See Lomax, C. E., and Saunders.)
Saunders, Orien R., Cove, Oreg. Weeder. 1,689,086; Oct. 23.
Scheuer, Alfred A., assignor of one-fourth to H. Victor and one-tenth to A. Palmer, New York, N. Y. Toy game color chart. 1689158; Oct. 23.
Schlayer, Felix, Madrid, Spain. Thrashing machine. 1688662; Oct. 23.
Schlegel, Ronald M., assignor to Frank J. Kimball Company, Los Angeles, Calif. Swivel-type lubricating device. 1,688,941; Oct. 23.
Schlesinger, Harry, Passaic, N. J. Game board. 1,688,942; Oct. 23.
Schletter & Zander, Inc. (See Zander, Walter E., assignor.)
Schmidt, Benjamin F., Los Angeles, Calif. Gear-shift mechanism. 1,688,750; Oct. 23.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Cement manufacture. 1,688,882; Oct. 23.
Schneider & Cie. (See Methlin, Nicolas E., assignor.)
Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Radiator cap. Des. 76,711; Oct. 23.
Schnitger, Emil R., assignor of one-half to C. A. Kading, Watertown, Wis. Strainer holder. 1,688,751; Oct. 23.
Schoeller, Harold. (See Schrader, H., and Schoeller.)
Schoenberger, William, et al. (See Phillips, Rose M. G., assignor.)
Schoengarth, Walter L., Hurley, Wis. Adjustable gas-engine piston. 1,688,792; Oct. 23.
Schoettel, Eugen, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio. Gas cells for airships. 1,689,184; Oct. 23.
Schofield, Samuel T., assignor to National Electrical Supply Company, Washington, D. C. Radio receiving apparatus. 1,688,943; Oct. 23.

Schrader, Hans, Essen-Bredeney, and H. Schoeller, Essen, Germany. Sulphur of a high degree of dispersion and preparing same. 1,688,357; Oct. 23.
Schramm, Carl, West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Threading machine. 1,688,752; Oct. 23.
Schreiber, John H., St. Louis, Mo. Compressor. 1,688,990; Oct. 23.
Schrenkeisen, William C., Mount Vernon, assignor to Hill Laundry Equipment Co. Inc., Long Island City, N. Y. Shoe drier. 1,688,793; Oct. 23.
Schuermann, Anton C. (See Mueller, P., and Schuermann.)
Schuermann, Helena, executrix. (See Mueller, P., and Schuermann.)
Schuh, Otto H., Denver, Colo. Hoisting apparatus. 1,688,507; Oct. 23.
Schulse, H. E., Inc. (See Schulse, Herman E., assignor.)
Schulse, Herman E., New York, N. Y., assignor to H. E. Schulse, Inc. Shoe-shining seat. Des. 76,729; Oct. 23.
Schulse, Herman E., New York, N. Y., assignor to H. E. Schulse, Inc. Shoe-shining installation. 1,688,753; Oct. 23.
Schulz, Waldemar, Neu-Ruppin, Germany. Internal-combustion engine. 1,688,944; Oct. 23.
Schutte, Charles F. (See Mursch, J., and Schutte.)
Schwartz, Harry A., Cleveland Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Making malleable-iron castings. 1,688,438; Oct. 23.
Schwemlein, William, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company. Closure. 1,689,057; Oct. 23.
Schwerin, Paul, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,688,991; Oct. 23.
Scott, William M., Tredyffrin Township, Chester County, and J. H. Wyatt, Kirklyn, Pa.; said Wyatt assignor to said Scott. Switching apparatus. 1,688,754; Oct. 23.
Scott, Winfield, assignor to The Rubber Service Laboratories Co., Akron, Ohio. Producing vulcanized rubber and product thereof. 1,688,755; Oct. 23.
Scott, Winfield, assignor to The Rubber Service Laboratories Company, Akron, Ohio. Rubber composition and manufacturing same. 1,688,756; Oct. 23.
Scott, Winfield, assignor to The Rubber Service Laboratories Company, Akron, Ohio. Manufacturing vulcanized rubber and product thereof. 1,688,757; Oct. 23.
Scott, Winfield, assignor to The Rubber Service Laboratories Company, Akron, Ohio. Manufacture of vulcanized rubber and product thereof. 1,688,758; Oct. 23.
Scullin Steel Company. (See Doerr, Harry E., assignor.)
Sealed Containers Corporation. (See Jones, Ellis L., assignor.)
Seals, Robert G., and E. N. C. Kuntz, St. Louis, Mo. Automobile front and end decoration. Des. 76,712; Oct. 23.
Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Protective circuit controller. 1,688,833; Oct. 23.
Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,688,663; Oct. 23.
Seguy, Jean D. (See Henny, V., and Seguy.)
Selb, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,689,058; Oct. 23.
Senft, John, York, assignor to United States Chain and Forging Company, Pittsburgh, Pa. Electric chain welder. 1,688,883; Oct. 23.
Seng Company, The. (See Fox, Martin, assignor.)
Severson, Ole, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Hollow mill. 1,688,558; Oct. 23.
Sharp, James W., Lakewood, Ohio. Locker. 1,688,834; Oct. 23.
Shaw, James W., Chicago, Ill. Continuous washing machine. 1,688,508; Oct. 23.
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Latch. 1,688,472; Oct. 23.
Shaw, Joseph A., assignor to The Koppers Company, Pittsburgh, Pa. Preventing decomposition of bicarbonates in solution. 1,689,059; Oct. 23.
Sheehan, William M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Dipper handle. 1,688,664; Oct. 23.
Sheldon, Edward P., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Paper-break indicator. 1,688,835; Oct. 23.
Shepard, Wilbur L., assignor of one-half to E. A. Beals, West Hartford, Conn. Gas-producing apparatus. 1,689,159; Oct. 23.
Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,688,945; Oct. 23.
Shur Loc Elevator Safety Co. Inc. (See McCormick, Harold V., assignor.)
Shute, Miles L., near Richmond, Ind. Attachment for self binders. 1,689,185; Oct. 23.
Siegrist, Hermann, Frankfort-on-the-Main, Germany. Turntable for motor-driven vehicles. 1,689,160; Oct. 23.
Siemens & Halske Aktiengesellschaft Wernerwerk. (See Weeber, Otto, assignor.)
Simmons Company. (See Hirsch, J. H., and Gall, assignors.)
Simpson, James T., Macon, Ga. Floor-scraping machine. 1,688,759; Oct. 23.
Simpson, William K., assignor to Hoffman Specialty Company, Waterbury, Conn. Lock for radiator valves and the like. 1,688,400; Oct. 23.
Sinclair Refining Company. (See Bell, John E., assignor.)
Singer Manufacturing Company, The. (See Eames, G. M., and Webb, assignors.)
Sippel, Charles B., assignor to Pyratone Products Corporation, Chicago, Ill. Shaft for golf clubs and the like. 1,688,473; Oct. 23.
Skultin, Charles A., Toledo, Ohio. Highway crossing. 1,689,161; Oct. 23.
Slack, Frederic W., assignor, by mesne assignments, to The Peerless Motor Car Corporation, Cleveland, Ohio. Vehicle brake. 1,688,358; Oct. 23.
Slagel, Franklin G., Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc. Strainer. 1,688,401; Oct. 23.
Slifer, Virgil T., Nickerson, Kans. Unloading chute for grain tanks. 1,688,600; Oct. 23.
Slye, Edward A., Burnside, assignor to Veeder-Root Incorporated, Hartford, Conn. Signal device for oil-pump indicators, etc. 688,474; Oct. 23.
Smal, Norman M., and L. Buehler, jr., assignors to Frick Company, Waynesboro, Pa. Conveyor grid. 1,689,060; Oct. 23.
Smellie, Donald G., Maywood, Ill., assignor to The Hoover Company. Washing machine. 1,688,665; Oct. 23.
Smith, Chiba'd C., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lining-trimming machine. Re17,112; Oct. 23.
Smith, Arthur B., Evanston, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Substation telephone circuits. 1,688,475; Oct. 23.
Smith, Benjamin F., Concord, assignor of one-half to C. A. Holt, Cambridge, Mass. Cup supporting and covering saucer. 1,688,492; Oct. 23.
Smith, Charles R., Chicago, Ill. Oil burner. 1,688,509; Oct. 23.
Smith, Edmund B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,688,993; Oct. 23.
Smith, Eggleston, Sioux City, Iowa, assignor to Eggleston Drilling Corporation, Dover, Del. Method and apparatus for drilling holes. 1,688,994; Oct. 23.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,688,760; Oct. 23.
Smith, Landon D., assignor to National Vending Service Company, Chicago, Ill. Vending machine. 1,688,402; Oct. 23.
Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 76,714; Oct. 23.
Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 76,714; Oct. 23.
Smith, Swan, White Bear, assignor of one-half to West Publishing Company, St. Paul, Minn. Machine for forming book end sections. 1,688,666; Oct. 23.
Smith, Swan, White Bear, assignor of one-half to West Publishing Company, St. Paul, Minn. Book end section. 1,688,667; Oct. 23.
Smith, Walter F., jr., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone muffler. 1,688,995; Oct. 23.
Smitley, Leslie E., and F. S. Moore, Los Angeles, Calif. Air-cooling system. 1,689,162; Oct. 23.
Smoot, Charles H., Maplewood, N. J. Steam accumulator control. 1,689,061; Oct. 23.
Smout, Warren R., Albany, Wis. Surface trimmer for meat blocks. 1,688,439; Oct. 23.
Societe du Carburateur Zenith. (See Boulade, Antonin, assignor.)
Society of Chemical Industry in Basle. (See Miescher, Karl, assignor.)
Soderman, Charles E., Ishpeming, Mich. Thermo fish receptacle. 1,688,440; Oct. 23.
Solana, Moisés. (See Altamirano, Alberto, assignor.)
Sorensen, George, Chicago, Ill. Candy-cutting machine. 1,688,668; Oct. 23.
Soss, Joseph, Brooklyn, N. Y. Concealed hinge. 1,688,996; Oct. 23.
Spencer, Henry K., Watertown, assignor to The Blanchard Machine Company, Cambridge, Mass. Grinding machine. 1,689,176; Oct. 23.
Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Sadiron. Re17,107; Oct. 23.
Spencer, Robert L., assignor to Heine Boiler Company, St. Louis, Mo. Superheater boiler. 1,688,669; Oct. 23.
Spencer Thermostat Company. (See Spencer, John A., assignor.)
Sperry Development Company. (See Drake, H. C., and Sperry, assignors.)
Sperry Development Company. (See Sperry, Elmer A., assignor.)
Sperry, Elmer A. (See Drake, H. C., and Sperry.)
Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del. Piston for internal-combustion engines. 1,688,403; Oct. 23.
Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic line of sight atabilizer. 1,688,559; Oct. 23.

Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del. Wakeless torpedo. 1,688,761; Oct. 23.
Sperry Gyroscope Company. (See Mills, Chester B., assignor.)
Sperry Gyroscope Company, The. (See Sperry, Elmer A., assignor.)
Sprague, Clarence A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,688,997; Oct. 23.
Spreen, Charles C., Detroit, Mich. Mechanical refrigeration. 1,688,885; Oct. 23.
Spreen, Charles C., Detroit, Mich. Mechanical refrigeration. 1,688,886; Oct. 23.
Spreen, Charles C., Detroit, Mich. Mechanical refrigeration. 1,688,892; Oct. 23.
Spreen, Charles C., Detroit, Mich. Mechanical refrigeration. 1,688,893; Oct. 23.
Spreen, Charles C., Detroit, Mich. Mechanical refrigeration. 1,688,894; Oct. 23.
Spreen, Charles C., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Compressor. 1,688,884; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. 1,688,887; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. 1,688,888; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Piston for refrigeration pumps. 1,688,889; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Pump for mechanical refrigeration. 1,688,890; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Electric motor. 1,688,891; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. 1,688,895; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Refrigerant-control mechanism. 1,688,896; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Supporting means for vaporizers. 1,688,897; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Refrigeration. 1,688,898; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Refrigeration. 1,688,899; Oct. 23.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. 1,688,900; Oct. 23.
Standard Mailing Machines Company. (See Storck, Frederick W., assignor.)
Standard Mirror Company Inc. (See La Hodny, William, assignor.)
Standard Mirror Company. (See La Hodny, W., and Kibitz, assignor.)
Standard Sanitary Manufacturing Company. (See Nash, Charles B., assignor.)
Standard Sanitary Manufacturing Company. (See Smith, Sherman, assignor.)
Standiford, Fred A., Kansas City, Mo. Combination light fixture and speaker. Des. 76,715; Oct. 23.
Stanley Works, The. (See Eger, George, assignor.)
Staples, Henry W., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand lamp. 1,688,560; Oct. 23.
Stark, Rudi, assignor to Central Scientific Company, Chicago, Ill. Laboratory apparatus. 1,688,404; Oct. 23.
Steele, Herbert H., Lynbrook, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,688,359; Oct. 23.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Ring member and making same. 1,688,762; Oct. 23.
Steigerwald, George N., Philadelphia, Pa., assignor to The Union Trust Company, Cleveland, Ohio. Welding. 1,688,360; Oct. 23.
Stein, Emanuel D. (See Salinger, Morris, assignor.)
Stein, Harry B., Chicago, Ill. Window construction. 1,688,836; Oct. 23.
Stewart, Donald H., assignor to Eastman Kodak Company, Rochester, N. Y. Lens-attachment mount for photographic apparatus. 1,688,441; Oct. 23.
Stewart Iron Works Company, The. (See Koesters, George J., assignor.)
Stieger, Karl, Graz, Austria, assignor to Felice Bensa, Genoa, Italy. Manufacturing dinitro derivatives of perylene and its compounds. 1,688,837; Oct. 23.
Stiriss, Jacob, New York, N. Y. Powder box. 1,688,442; Oct. 23.
Stoehr, Washington A., Reserve Township, Allegheny County, Pa. Wall-veneering material. 1,688,405; Oct. 23.
Stokes, John S. (See Novotny, Emil E., assignor.)
Stone, Abraham, and M. Frost, Brooklyn, N. Y. Bag-making machine. 1,688,901; Oct. 23.
Storck, Frederick W., Somerville, assignor to Standard Mailing Machines Company, Everett, Mass. Inking device. 1,689,177; Oct. 23.
Straight, Halver R., Adel, Iowa. Building brick. 1,688,902; Oct. 23.
Straub, Joseph J., Brooklyn, N. Y. Practice drum. 1,688,561; Oct. 23.
Straus, Mitteldorfer, New York, N. Y. Pipe holder or similar article. Des. 76,716; Oct. 23.
Straus, Mitteldorfer, New York, N. Y. Cigarette holder. Des. 76,717; Oct. 23.
Straus, Mitteldorfer, New York, N. Y. Cigarette holder or similar article. Des. 76,718; Oct. 23.
Strebler Appliances, Inc. (See Strebler, George L., assignor.)
Strebler, George L., assignor to Strebler Appliances, Inc., St. Louis, Mo. Pump. 1,689,178; Oct. 23.
Strebler, George L., assignor to Strebler Applinaces, Inc., St. Louis, Mo. Compressor. 1,689,179; Oct. 23.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Johnson, Merriam E., assignor.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Williams, John D., assignor.)
Strong, Harry M. (See Morgan, Lewis J., assignor.)
Sukert, Philip H., Chicago, Ill. Window-washing device. 1,689,163; Oct. 23.
Sullivan Machinery Company. (See Garfin, Elmer G., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan machinery Company. (See Johansen, Harry C., assignor.)
Sullivan Machinery Company. (See Osgood, Robert C., assignor.)
Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
Surface Combustion Company, The. (See Manker, Forrest W., assignor.)
Sutton-Abramsen Engineering Company. (See Wise, George A., assignor.)
Svensson, Karl J., Lidingo Villastad, and K. A. P. Norling, Sodertorns Villastad, Sweden. Drum for centrifugal separating apparatus. 1,688,838; Oct. 23.
Swanstrom, Arthur R., Duluth, Minn. Horseshoe. 1,688,601; Oct. 23.
Swartz, Hiram B., Wooster, Ohio. Voting-machine counter reader. 1,689,087; Oct. 23.
Sweeney, Joseph J. (See Heck, J. B., jr., and Sweeney.)
Swendiman, George A., Grand Forks, N. Dak. Dental apparatus. 1,688,670; Oct. 23.
Swinney, Frederick, deceased, by R. L. Swinney, administratrix, Tucson, Ariz. Froth-flotation concentration of ores. 1,688,998; Oct. 23.
Swinney, Rose L., administratrix. (See Swinney, Frederick.)
Sykes, Mal S., Jackson, Miss. Picture hook and wire adjusted. 1,688,562; Oct. 23.
Sylvester, Pascal, Chicago, Ill., assignor to Pascal Sylvester, Inc. Grille. 1,689,164; Oct. 23.
Sylvester, Pascal, Inc. (See Sylvester, Pascal, assignor.)
Symington Company, The. (See Kadel, Byers W., assignor.)
Tafelski, George, Grand Rapids, Mich. License holder. 1,689,088; Oct. 23.
Talbot, Howard H., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Counterbalance. 1,688,361; Oct. 23.
Taylor, Charles H., Calhoun Falls, S. C. Railroad-crossing signal. 1,689,165; Oct. 23.
Taylor, Cyrus, Hartford, Conn. Device for feeding cups or containers to filling or other machines. 1,688,510; Oct. 23.
Taylor, James H., Chicago, Ill. Making annealing pots. 1,688,999; Oct. 23.
Taylor, William A., Detroit, Mich. Tire construction. 1,688,671; Oct. 23.
Teare, Albert R., Lakewood, assignor to J. C. Miles, Cleveland, Ohio. Heating and ventilating apparatus. 1,688,362; Oct. 23.
Teare, Albert R., Lakewood, assignor to J. C. Miles, Cleveland, Ohio. Heating and ventilating apparatus. 1,688,363; Oct. 23.
Tears, Claude F., assignor to Universal Oil Products Company, Chicago, Ill. Oil apparatus. 1,688,839; Oct. 23.
Ternstedt Manufacturing Co. (See Schnell, William, assignor.)
Terry, Edward F., jr., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Lubricator. 1,688,946; Oct. 23.
Teves, Alfred C., Richmond Hill, N. Y. Vacuum cleaner. 1,689,089; Oct. 23.
Tevonian, Hagop P., Brooklyn, N. Y. Pencil sharpener. 1,688,840; Oct. 23.
Theobald, Jean G., assignor to International Silver Company, Meriden, Conn. Table set. Des. 76,719; Oct. 23.
Thomas, Francois V. A., Paris, France. Carburetor. 1,688,947; Oct. 23.
Thompson, Melbourne E., assignor to Trippensee Sales and Manufacturing Company, Detroit, Mich. Compressor for refrigerating apparatus. 1,688,903; Oct. 23.
Thompson, Russell G., assignor to North East Appliances, Inc., Rochester, N. Y. Automatic typewriter. 1,688,364; Oct. 23.
Thompson, Thomas W., Freeland Park, Ind. Blackboard cleaner. 1,688,672; Oct. 23.
Thurman, Tandy B., Kansas City, Mo. Automobile awning. 1,688,673; Oct. 23.
Tielkemeyer, Henry, St. Louis, Mo. Furnace. 1,688,763; Oct. 23.
Tiffany, Leverett W., Winsted, Conn. Packaging machine. 1,688,406; Oct. 23.
Tilley, Herbert B. (See Dowsett, H. M., and Tilley.)

Tillotson, James, jr., Jamestown, N. Y., assignor to Radio Corporation of America. Cabinet for radioreceivers. Des. 76,720; Oct. 23.
Tillotson, James, jr., Jamestown, N. Y., assignor to Radio Corporation of America. Cabinet for radioreceivers. Des. 76,721; Oct. 23.
Titchener, E. H., & Company. (See Titchener, Paul F., assignor.)
Titchener, Paul F., assignor to E. H. Titchener & Company, Binghamton, N. Y. Enameling articles. 1,689,062; Oct. 23.
Tobacco Stemming Machine Company. (See Gooch, C. W., jr., and Ewers, assignors.)
Todd, James A., Attalla, Ala., assignor to Compress Buckle Company, Fort Worth, Tex. Bale-tie buckle. 1,688,365; Oct. 23.
Tompkins, Charles P., Barnett, Mo. Extra-tire support. 1,689,063; Oct. 23.
Tomkinson, Joseph J., Fort Wayne, Ind. Water-softening device. 1,688,366; Oct. 23.
Tomlinson, John K., Chicago, Ill. Shade-roller construction. 1,688,563; Oct. 23.
Trankowski, Bruno, and G. Grodd, Bridgeport, Conn. Self-massage roller. 1,688,764; Oct. 23.
Trinquart, Louis G., Paris, France, assignor to The Basick Manufacturing Company, Chicago, Ill. Coupling device. 1,688,564; Oct. 23.
Trippensee Sales and Manufacturing Company. (See Thompson, Melbourne E., assignor.)
Turner Tanning Machinery Company, The. (See Ramsdell, Lyndon O., assignor.)
Turnley, William M., Toronto, Ontario, Canada. Dry battery. 1,688,565; Oct. 23.
Twombly, John I., assignor to Universal Optical Corporation, Providence, R. I. Bridge member for an ophthalmic mounting. Des. 76,722; Oct. 23.
U. S. Ring Traveler Company. (See Gilligan, George H., assignor.)
U. S. Tool Co. (See Dester, William F., assignor.)
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Underwood Elliott Fisher Company. (See Steele, Herbert H., assignor.)
Underwood Elliott Fisher Company. (See, Waldheim, John, assignor.)
Union Bag and Paper Corporation. (See Wolle, Joseph A., assignor.)
Union Engineering & Foundry Company. (See Talbot, Howard H., assignor.)
Union Steel Products Company. (See Bitney, Dewey H., assignor.)
Union Steel Products Company. (See Mitchell, Robert B., assignor.)
Union Switch & Signal Company, The. (See Lockrow, Laurice L.)
Union Switch & Signal Company, The. (See Young, H. S., and Gilson, assignors.)
Union Trust Company, The. (See Steigerwald, George N., assignor.)
United Products Corporation of America. (See Biddle, Arthur, assignor.)
United Shoe Machinery Corporation. (See Joyce, Richard F., assignor.)
United Shoe Machinery Corporation. (See Mahler, John J., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
United Shoe Machinery Corporation. (See Smith, Archibald C., assignor.)
United States Chain and Forging Company. (See Senft, John, assignor.)
Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
Universal Oil Products Company, The. (See David, Aubrey D., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Egloff, G., and Benner, assignors.)
Universal Oil Products Company. (See Henny, V., and Seguy, assignors.)
Universal Oil Products Company. (See Huff, Lyman C., assignor.)
Universal Oil Products Company. (See Pollock, Robert T., assignor.)
Universal Oil Products Company. (See Tears, Claude F., assignor.)
Universal Optical Corporation. (See Twombly, John I., assignor.)
Uppercu, Inglis M. (See Williams, Thomas F., assignor.)
Valle-Jones, Frederick W., New Oxley, Wolverhampton, assignor to Fox, Stockell & Company, London, England. Production of road-surfacing material. 1,688,511; Oct. 23.
Valley Mould & Iron Corporation. (See Perry, John E., assignor.)
Valley Mould & Iron Corporation. (See Ramage, William H., assignor.)
Van Ausdall, Roy, Reiley, Ohio. Advertising device. 1,688,566; Oct. 23.
Van de Putte, Jean, Assche, near Brussels, Belgium. Track clearer for vehicles. 1,688,476; Oct. 23.
Van Deusen, Henry M., Westfield, Mass. Mop. 1,688,948; Oct. 23.
Van Pelt, Arnold F. (See Fischer, F., and Van Pelt.)
Varner, Sallie, Elton, Pa. Power-driven cleaning device. 1,689,166; Oct. 23.
Vazcane Process, Inc. (See Vazquez, Eugenio A., assignor.)
Vazquez, Eugenio A., Habana, Cuba, assignor to Vazcane Process, Inc. Simultaneously making sugar and paper pulp from cane. 1,688,904; Oct. 23.
Vazquez, Eugenio A., Habana, Cuba, assignor to Vanzcane Process, Inc. Apparatus for simultaneously making sugar and paper pulp from cane. 1,688,905; Oct. 23.
Veeder-Root Incorporated. (See Slye, Edward A., assignor.)
Veras, Manuel, Brooklyn, N. Y. Holder for nursing bottles. 1,688,765; Oct. 23.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,723; Oct. 23.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,724; Oct. 23.
Vitapack Corporation. (See Rector, Thomas M., assignor.)
Victor, Harry, et al. (See Scheuer, Alfred A., assignor.)
Victor Talking Machine Company. (See Lane, Albert E., assignor.)
Vincent, Sidney C., Baltimore, Md. Toy clock. 1,688,766; Oct. 23.
Virginia-Carolina Chemical Corporation. (See Maxwell, J., Hoffmann, and McCoy, assignors.)
Wackerman, Charles S., assignor to The American Fabrics Company, Bridegport, Conn. Narrow woven trimming. Des. 76,725; Oct. 23.
Wagner, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bus-bar structure. 1,688,567; Oct. 23.
Wagner, Henry C., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Footwear. 1,689,000; Oct. 23.
Walt, Wesley, Newburgh, N. Y. Interlocking joint for metallic frames. 1,688,949; Oct. 23.
Walt, Wesley, Newburgh, N. Y. Shaping columns, girders, beams, and the like for interlocking joints. 1,688,950; Oct. 23.
Waldbauer, George H., Bridgeport, Conn. Doorcheck. 1,689,001; Oct. 23.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,688,367; Oct. 23.
Waldman, Herman, Chicago, Ill. Cosmetic-display stand. Des. 76,726; Oct. 23.
Waldo Bros. and Bond Company. (See Parker, Alfred B., assignor.)
Walker, Charles W., assignor to Walker-Wallace Limited, Toronto, Ontario, Canada. Bottle-crate feed mechanism. 1,688,368; Oct. 23.
Walker Manufacturing Company. (See Ellwood, Charles D., assignor.)
Walker, Uel T., Eccles, W. Va. Tooth-paste-dispensing device. 1,688,512; Oct. 23.
Walker-Wallace Limited. (See Walker, Charles W., assignor.)
Wallace, John F., Shaker Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shackle construction. 1,688,841; Oct. 23.
Walther, Wilhelm, and G. Rau, assignors to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Ignition device. 1,688,951; Oct. 23.
Warner Gear Company. (See White, Samuel O., assignor.)
Warner, James T., Detroit, assignor to Whitehead and Kales Company Incorporated, River Rouge, Mich. Permanent mold. 1,688,602; Oct. 23.
Washburn Company, The. (See Andrews, Arthur G., assignor.)
Wastak, Joseph, Chicago, Ill. Oat sprouter. 1,688,407; Oct. 23.
Watkins, Charles W., Kingston, Pa. Electric-lamp-holding attachment for miners' caps. 1,689,090; Oct. 23.
Watt, Homer S., Chicago, Ill., assignor to Gordon Motor Crib Company, Port Chester, N. Y. Bassinet. 1,689,091; Oct. 23.
Weagant, Roy A., Douglaston, N. Y., assignor to De Forest Radio Company, Jersey City, N. J. Radio signaling circuits. 1,688,842; Oct. 23.
Webb, Cecil, Lisburn, Ireland. Internal-combustion engine. 1,688,767; Oct. 23.
Webb, Irving F. (See Eames, G. M., and Webb.)
Webster, Harry G., Chicago, Ill. Receiver. 1,688,674; Oct. 23.
Weeber, Otto, Berlin, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Hand telephone. 1,688,477; Oct. 23.
Weeks, Albert G., Minneapolis, Minn. Tone-control device. 1,688,952; Oct. 23.
Wehmeyer, Clarence W., assignor to Heine Boiler Company, St. Louis, Mo. Wall or baffle tile for water-tube boilers. 1,688,603; Oct. 23.

Weingartner, Anthony E., assignor to American Engineering Company, Philadelphia, Pa. Siftings preventer for stokers. 1,689,092; Oct. 23.
Weiss, Arthur J., West Orange, N. J., assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,688,478; Oct. 23.
Weiss, Mark W. (See Esselen, G. J., jr., and Weiss.)
Welch, George R., assignor to G. M. Holley, Detroit, Mich. Exhaust-heated oil vaporizer. 1,688,604; Oct. 23.
Wells, George M., Montclair, N. J. Apparatus for preparing refuse for incineration. 1,689,002; Oct. 23.
Welman, Arthur A., Evansville, Ind. Coincidental lock for automobiles. 1,688,568; Oct. 23.
Wennerby, Arthur O. L., Gottenburg, Sweden. Two-stroke-cycle internal-combustion engine. 1,688,794; Oct. 23.
Wensel, Theodor, Chicago, Ill. Built-up shaft or rod and the like and producing same. 1,688,569; Oct. 23.
Wessman, Edwin G., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Vending machine. 1,688,443; Oct. 23.
West Publishing Company. (See Smith, Swan, assignor.)
Western Electric Company. (See Akers, Milton K., assignor.)
Western Electric Company. (See Gilbert, John J., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Lum, George R., assignor.)
Western Electric Company. (See Schwerin, Paul, assignor.)
Western Electric Company. (See Smith, Walter F., jr., assignor.)
Western Electric Company. (See Sprague, Clarence A., assignor.)
Western Union Telegraph Company, The. (See Hewitt, E. W., Maus, and Marx, assignors.)
Western Union Telegraph Company, The. (See McChesney, Horace B., assignor.)
Western Union Telegraph Company, The. (See Milnor, Joseph W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jennings, Oliver S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wagner, Charles F., assignor.)
Wetmore, Robert E. (See Morrow, P. K., and Wetmore.)
Wettengel, George A., St. Louis, Mo. Device for preventing theft of automobiles on highways. 1,688,479; Oct. 23.
Weyl, Charles N., Philadelphia, Pa. Method and apparatus for taking synchronized radiograph exposures. 1,688,675; Oct. 23.
Wheelbarger, Albert S., assignor to Ohmer Fare Register Company, Dayton, Ohio. Paper-take-up mechanism. 1,688,444; Oct. 23.
White, Roy A. (See Hamilton, G. H., and White.)
White, Samuel O., assignor to Warner Gear Company, Muncie, Ind. Transmission gear. 1,689,180; Oct. 23.
White, William E., assignor to Kalman Steel Company, Chicago, Ill. Road-strip support. 1,688,906; Oct. 23.
White, William E., assignor to Kalman Steel Company, Chicago, Ill. Support for road strips. 1,688,907; Oct. 23.
Whitehead and Kales Company Incorporated. (See Warner, James T., assignor.)
Whiting Corporation. (See Coffey, Oscar L., assignor.)
Whiting-Patterson Company. (See Pitts, William B., assignor.)
Whitley, William P., assignor to Rawlings Manufacturing Company, St. Louis, Mo. Athletic guard. 1,688,676; Oct. 23.
Whittier, Walter H., Grand Rapids, assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Refrigerator. 1,688,908; Oct. 23.
Whittier, Walter H., Grand Rapids, Mich., assignor to Kelvinator Corporation, Detroit, Mich. Refrigerator. 1,688,909; Oct 23.
Wildhaber, Ernest, Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Hobbing threads. 1,688,768; Oct. 23.
Willard, Alfred R., East Cleveland, assignor to Willard Storage Battery Co., Cleveland, Ohio. Automatic feed mechanism. 1,688,369; Oct. 23
Willard Storage Battery Co. (See Willard, Alfred R., assignor.)
Willard Storage Battery Company. (See Reinhardt, Willard L., assignor.)
Williams Foundry & Machine Company, The. (See Williams, Herbert L., assignor.)
Williams, Herbert L., assignor to The Williams Foundry & Machine Company, Akron, Ohio. Vulcanizer head. 1,688,570; Oct. 23.
Williams, Isaac N., Foltz, Ind. Nail holder. 1,688,445; Oct. 23.
Williams, Israel, Lima, Ohio. Airship. 1,688,769; Oct. 23.
Williams, John D., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Electrical and instrument cord. 1,688,605; Oct. 23.
Williams, Thomas F., Keyport, assignor to I. M. Uppercu, Deal, N. J. Oil burner. 1,689,064; Oct. 23.
Williams, William E., Wilmette, Ill. Anticreep rail anchor. 1,689,003; Oct. 23.
Wilson, H. A., Company, The. (See Lepow, Max, assignor.)
Winans, Daniel M., Binghamton, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Oil-change recorder. 1,689,181; Oct. 23.
Winchester Repeating Arms Company. (See Beebe, Herbert F., assignor.)
Winchester Repeating Arms Company. (See Staples, Henry W., assignor.)
Winship, Bolt & Co. (See Winship, Charles N., assignor.)
Winship, Charles N., assignor to Winship, Bolt & Co., Wakefield, Mass. Undergarment. 1,688,910; Oct. 23.
Winston, Robert. (See Jaschun, Herman, assignor.)
Winter, John, Goshen, Ind. Map case. 1,688,677; Oct. 23.
Winters & Crampton Mfg. Co., The. (See Crampton, Basil R., assignor.)
Winthrop Chemical Company. (See Hahl, Hans, assignor.)
Wired Radio, Inc. (See Duncan, Robert D., jr., assignor.)
Wired Radio, Inc. (See Hund, August, assignor.)
Wired Radio, Inc. (See Mears, Joseph A., assignor.)
Wired Radio, Inc. (See Nicolson, Alexander M., assignor.)
Wise, George A., assignor to Sutton-Abramsen Engineering Company, Pittsburgh, Pa. Straightening machine. 1,688,480; Oct. 23.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Lens attachment for photographic apparatus. 1,688,370; Oct. 23.
Wood, Manton A. (See Hotz, John P., assignor.)
Woodhead, Horace G., assignor to B. F. Gump Co., Chicago, Ill. Cereal-cutting machine. 1,688,770; Oct. 23.
Wolle, Joseph A., Philadelphia, Pa., assignor to Union Bag and Paper Corporation, New York, N. Y. Method of and apparatus for making curled wire. 1,689,093; Oct. 23.
Woolston, Louis F. (See Otis, A. N., and Woolston.)
Wolpert, Robert B., Minneapolis, Minn. Billiard cue. 1,688,911; Oct. 23.
Wonders, Clara J., et al. (See Farmer, John F., assignor.)
Wonders, William, et al. (See Farmer, John F., assignor.)
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Wootton, Ernest A., Maynooth, Ontario, Canada. Sheaf shocker. 1,689,094; Oct. 23.
World Bestos Corporation. (See Heany, John A., assignor.)
Wray, Charles F., assignor to National Brass Manufacturing Company, Rochester, N. Y. Valve structure. 1,689,095; Oct. 23.
Wray, Charles F., Rochester, N. Y., and M. Blickman, Weehawken, N. J., assignors to S. Blickman, M. Blickman, and H. Blickman. Measuring faucet. 1,689,096; Oct. 23.
Wright, Stanton M. (See Wright, Walter L. and S. M.)
Wright, Thomas B., Cincinnati, Ohio. Making receptacles. 1,689,097; Oct. 23.
Wright, Walter L., Santa Monica, Calif. Motion-picture apparatus. 1,688,607; Oct. 23.
Wright, Walter L., Santa Monica, and S. M. Wright, Los Angeles, Calif. Optical system. 1,688,606; Oct. 23.
Wrighton, William J., Southbridge, assignor to American Optical Company, Worcester, Mass. Goggles. 1,688,446; Oct. 23.
Wyatt, James H. (See Scott, W. M., and Wyatt.)
Wyche, George W., Arcadia, Calif. Subsoil plow. 1,689,065; Oct. 23.
Wykes, Hunter. (See Chouinard, Oscar, assignor.)
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Grounding mechanism. 1,689,098; Oct. 23.
Yates, Luther L. (See Reynolds, Damian L., assignor.)
Yeager, Fay A., assignor to Joachim R. M. Knudsen, Muskegon, Mich. Window-glass clip. 1,688,953; Oct. 23.
Young, Carl L., and A. B. Robertson, Amarillo, Tex. Boat-propulsion means. 1,688,513; Oct. 23.
Young, Henry S., Wilkinsburg, and R. M. Gilson, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of highway-crossing signals. 1,688,912; Oct. 23.
Younie, Lewis E., La Fayette, Calif. Digging implement. 1,688,771; Oct. 23.
Yutz, William H. (See Carver, W. H., and Yutz.)
Zabriskie, Charles L., New York, N. Y., assignor, by mesne assignments, to Rogers Products Co., Inc. Lubricating device. 1,689,186; Oct. 23.
Zander, Walter E., Philadelphia, assignor to Schletter & Zander, Inc., Frankford, Philadelphia, Pa. Stocking. Des. 76,730; Oct. 23.
Zavitovsky, Emil, and C. J. Lins, assignors to McKane-Lins Company, Milwaukee, Wis. Corner piece for a trunk or similar article. Des. 76,727; Oct. 23.
Zavitovsky, Emil, and C. J. Lins, assignors to McKane-Lins Company, Milwaukee, Wis. Corner piece for a trunk or similar article. Des. 76,728; Oct. 23.
Zerk, Oscar, now, by judicial change of name, O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating system. 1,688,571; Oct. 23.
Zuckerman, Adolph M., assignor to R. Hoe & Co., Inc., New York, N. Y. Intaglio printing machine. 1,688,843; Oct. 23.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acetylene-plant waste and the like, Preparing product from. D. M. Harrison. 1,688,542; Oct. 23.
Acid, Preparing purified phosphoric. J. Maxwell, P. C. Hoffmann, and C. E. McCoy. 1,688,822; Oct. 23.
Acids and making same, Derivatives of quinoline carboxylic. K. Miescher. 1,688,469; Oct. 23.
Acoustic device, Multiple. A. M. Nicolson. 1,688,744; Oct. 23.
Acoustic diaphragm. N. H. Holland. 1,689,030; Oct. 23.
Adding attachment for typewriting machines. G. O. Degener. 1,688,805; Oct. 23.
Addressing machine. E. D. Grady. 1,688,963; Oct. 23.
Adjusting device for fan blades. E. C. Ringel. 1,689,083; Oct. 23.
Advertising device. R. Van Ausdall. 1,688,566; Oct. 23.
Advertising pedestal. E. L. Post. Des. 76,703; Oct. 23.
Aerial, Loop. P. D. Morris. 1,688,875; Oct. 23.
Air and fuel mixing device. H. M. Cogan. 1,688,613; Oct. 23.
Air heater. L. A. Benner. 1,689,067; Oct. 23.
Air heater. H. F. Gauss. 1,688,618; Oct. 23.
Air heater, Regenerative. H. F. Gauss. 1,688,700; Oct. 23.
Airship. I. Williams. 1,688,769; Oct. 23.
Airships, Gas cell for. E. Schoettel. 1,689,184; Oct. 23.
Alarm: *See*—
  Burglar alarm. Fire alarm.
Aluminum halides and nitrogen by-products, Producing anhydrous. C. G. Miner. 1,688,504; Oct. 23.
Amplifier connection. F. Gehrts. 1,688,701; Oct. 23.
Anesthetizing. J. B. Heck, jr., and J. J. Sweeney. 1,688,332; Oct. 23.
Anchor, Anticreep rail. W. E. Williams. 1,689,003; Oct. 23.
Anchoring elements for concrete construction. R. B. Mitchell. 1,688,981; Oct. 23.
Antifreeze composition. J. R. Paul. 1,689,153; Oct. 23.
Antiratile attachment, Spring-shackle. H. E. Blomgren. 1,688,682; Oct. 23.
Antiseptic, antifouling, germicidal waterproof coatings. A. Biddle. 1,689,008; Oct. 23.
Apparatus for ascertaining the characteristics of flowing liquids. V. Henny and J. D. Seguy. 1,688,811; Oct. 23.
Arch-controlling device. N. D. Mattison. 1,688,642; Oct. 23.
Arseno compound, Production of unsymmetrical. J. Pfleger and A. Albert. 1,688,351; Oct. 23.
Artificial pressure to oil sand, Apparatus for supplying. J. O. Lewis and H. R. Pierce. 1,688,586; Oct. 23.
Athletic guard. W. P. Whitley. 1,688,676; Oct. 23.
Atomizer. J. D. Lalor. 1,688,585; Oct. 23.
Audiphone. G. R. Lum. 1,688,976; Oct. 23.
Automobile body, Door and window construction. L. J. Morgan. 1,688,937; Oct. 23.
Automobile inclosure. G. E. Bishop. 1,688,681; Oct. 23.
Automobile snubber. L. W. Montgomery. 1,688,592; Oct. 23.
Awning. E. F. Barber. 1,688,776; Oct. 23.
Awning, Automobile. T. B. Thurman. 1,688,673; Oct. 23.
Baby walker. J. Drinosky, jr. 1,688,922; Oct. 23.
Bag frame. W. C. Hiering. Des. 76,685–6; Oct 23.
Bag-making machine. A. Stone and M. Frost. 1,688,901; Oct. 23.
Bail for excavating dippers and the like. B. S. Ferguson. 1,689,122; Oct. 23.
Basin mounting. O. M. Ries. 1,688,987; Oct. 23.
Bassinet. H. S. Watt. 1,689,091; Oct. 23.
Bath mitt. A. W. Belfry. 1,688,374; Oct. 23.
Battery: *See*—
  Dry battery.
Battery plate and permanizing the same, Storage-. W. L. Reinhardt. 1,688,399; Oct. 23.
Battery separator. W. L. Kann. 1,688,336; Oct. 23.
Bearing for gyro-compass rotors, Thrust. C. B. Mills. 1,688,825; Oct. 23.
Bearing with fluid friction, Thrust. G. Böhm. 1,688,519; Oct. 23.
Bedstead. G. C. Jorgensen. Des. 76,689; Oct. 23.
Bell-ringing mechanism. T. C. Maley. 1,688,392; Oct. 23.
Belt connecter. W. A. Nourie. Re17,111; Oct. 23.
Belt-fastener-applying machine. J. K. Diamond. 1,689,013; Oct. 23.
Belt placer. H. H. Franks. 1,688,579; Oct. 23.
Belts or straps, Spring-connecting means for. J. P. Gordon. 1,688,962; Oct. 23.
Bicarbonates in solution, Preventing decomposition of. J. A. Shaw. 1,689,059; Oct. 23.
Billiard cue. R. B. Wolpert. 1,688,911; Oct. 23.
Bin: *See*—
  Counter bin.
Binder, Magazine. H. T. Arends. 1,688,514; Oct. 23.
Binders, Attachment for self-. M. L. Shute. 1,689,185; Oct. 23.
Binding material for cores, Method of and apparatus for preparing. W. B. Runyan. 1,688,661; Oct. 23.
Binding post. A. H. Nero. 1,689,080; Oct. 23.
Bird cage. L. J. Leon. 1,688,502; Oct. 23.
Blackboard cleaner. T. W. Thompson. 1,688,672; Oct. 23.
Blanket, Baby. W. Kanter. 1,688,624; Oct. 23.
Block: *See*—
  Sheet-edge block.
Board: *See*—
  Drawing board. Ironing board.
  Game board.
Boat-propulsion means. C. L. Young and A. B. Robertson. 1,688,513; Oct. 23.
Boiler: *See*—
  Locomotive boiler. Superheater boiler.
Boiler soot cleaner. T. M. Bruback. 1,688,482; Oct. 23.
Bond, Rail. H. H. Febrey. 1,688,696; Oct. 23.
Book end section. S. Smith. 1,688,667; Oct. 23.
Books, Art of and machine for assembling. C. A. Juengst. 1,688,970; Oct. 23.
Bottle. J. Morrison. 1,688,396; Oct. 23.
Bottle-cap piercer. W. J. Packer. 1,689,047; Oct. 23.
Bottle cooler. J. Samuels. 1,689,054; Oct. 23.
Bow and arrow. H. B. Keller. 1,689,141; Oct. 23.
Box: *See*—
  Chick box. Powder box.
Box connection, Outlet-. M. M. Clayton. 1,688,853; Oct. 23.
Brace: *See*—
  Broom-handle brace.
Braiding-machine carrier, Tubular. W. E. Cook. 1,689,116; Oct. 23.
Brake: *See*—
  Electrically-released brake. Vehicle brake.
Brake-operating mechanism. A. Moorhouse. 1,688,740; Oct. 23.
Brake shoes, Making. C. Cobb, jr. 1,688,787; Oct. 23.
Brick, Building. H. R. Straight. 1,688,902; Oct. 23.
Bridge member for an ophthalmic mounting. J. I. Twombly. Des. 76,722; Oct. 23.
Brooder. O. J. Haugen. 1,688,925; Oct. 23.
Broom-handle brace. R. R. Brock. 1,689,109; Oct. 23.
Brush. A. Albright, jr. 1,688,318; Oct. 23.
Bucket. H. S. Atkinson. 1,688,324; Oct. 23.
Buckle, Bale-tie. J. A. Todd. 1,688,365; Oct. 23.
Buckle, Belt. J. B. Freysinger. 1,688,328; Oct. 23.
Buffer for machines for finishing flooring. E. C. Dittmar. 1,688,378; Oct. 23.
Building block or brick. F. L. Bradley. 1,689,107; Oct. 23.
Bumper. E. H. McCloud. 1,689,076; Oct. 23.
Bumper. C. E. Pryor. 1,688,432; Oct. 23.
Bumper and tire carrier, Automobile. E. H. McCloud. 1,689,148; Oct. 23.
Bumper, Automobile. E. H. McCloud. 1,689,147; Oct. 23.
Burglar alarm. P. K. Morrow and R. E. Wetmore. 1,688,628; Oct. 23.
Burner: *See*—
  Fuel-oil burner. Oil burner.
  Gas burner.
Burner. J. H. Nelson. 1,688,827; Oct. 23.
Bus-bar structure. C. F. Wagner. 1,688,567; Oct. 23.
Button. C. M. Bondy. 1,688,520; Oct. 23.
Cabinet for radioreceivers. J. Tillottson, jr. Des. 76,720–21; Oct. 23.
Cabinet, Ice-cream. C. H. Brooks. 1,688,959; Oct. 23.
Cable, Electric. R. W. Atkinson. 1,688,954; Oct. 23.
Cable joint, Insulated. E. D. Eby. 1,688,693; Oct. 23.
Can ends, Compound lining. R. E. J. Nordquist. 1,688,644; Oct. 23.
Candlestick or similar article, Artistic bronze. E. T. Hurley. Des. 76,687; Oct. 23.
Candy-cutting machine. G. Sorensen. 1,688,668; Oct. 23.
Cap, Ear. J. W. Kramer. 1,688,721; Oct. 23.
Car, Mine. O. Sann. 1,689,056; Oct. 23.
Car, Railway. A. Campbell. 1,688,685; Oct. 23.
Car, Railway. A. Campbell. 1,688,851; Oct. 23.
Carburetor. F. V. A. Thomas. 1,688,947; Oct. 23.
Carrier: *See*—
  Braiding-machine carrier.

Carrier and bumper, Automobile spare-wheel. E. H. McCloud. 1,689,149; Oct. 23.
Carton. A. W. O'Keeffe. 1,688,983; Oct. 23.
Carving fork. H. Berry. 1,688,778; Oct. 23.
Carving machine, Wood-. A. V. Breed. 1,689,108; Oct. 23.
Case: *See*—
Cigarette case. Map case.
Display case. Rosary case.
Cash register. L. C. Ostendorf. 1,688,939; Oct. 23.
Cash register. W. H. Robertson. 1,688,940; Oct. 23.
Cash register. B. M. Shipley. 1,688,945; Oct. 23.
Casket, Burial. M. F. Davoran. 1,689,183; Oct. 23.
Caster. B. Hossard. 1,689,031; Oct. 23.
Casting apparatus. B. L. Hooper. 1,688,928; Oct. 23.
Castings, Making malleable-iron. H. A. Schwartz. 1,688,438; Oct. 23.
Catalyzing the formation of thio-ureas. C. N. Hand and H. P. Roberts. 1,688,707; Oct. 23.
Cement manufacture. W. A. Schmidt. 1,688,882; Oct. 23.
Chain connecter. J. T. Hutton. 1,688,461; Oct. 23.
Chain, Cutter. M. J. Hire. 1,689,139; Oct. 23.
Chain tightener and fastener. I. J. D. Fairhurst. 1,689,120; Oct. 23.
Chair: *See*—
Reclining chair. Rocking-chair.
Chair particularly for office use. C. J. Bendix. 1,688,956; Oct. 23.
Checkerwork for regenerative chambers. F. R. McGee. 1,689,041; Oct. 23.
Chick box. W. H. Carver and W. H. Yutz. 1,689,069; Oct. 23.
Chloride, Producing phosphorus. C. G. Miner. 1,688,503; Oct. 23.
Chocolate milk composition. W. A. Heyman. 1,689,029; Oct. 23.
Chocolate milk composition, Producing a. W. A. Heyman. 1,689,028; Oct. 23.
Chopper: *See*—
Cotton chopper.
Chute for grain tanks, Unloading. V. T. Slifer. 1,688,600; Oct. 23.
Cigarette case. P. A. Gardner, jr. 1,688,690; Oct. 23.
Cigarettes and articles of similar shape, Apparatus for feeding. W. E. Moline. 1,688,982; Oct. 23.
Circuit-breaker apparatus. O. S. Jennings. 1,688,584; Oct. 23.
Circuit closer, Electrical. F. Fischer and A. F. Van Pelt. 1,688,697; Oct. 23.
Circuit controller, Periodic. C. P. Nachod. 1,688,826; Oct. 23.
Circuit controller, Protective. E. W. Seeger. 1,688,833; Oct. 23.
Circuit-controlling device. C. E. Patino. 1,688,878; Oct. 23.
Clamp: *See*—
Concrete-form clamp. Joint clamp.
Head clamp.
Clamp. W. S. Jones and A. E. McLean. 1,688,718; Oct. 23.
Clamp. R. G. and G. W. Mercer. 1,689,078; Oct. 23.
Clamp for vehicle bumpers. H. S. Jandus and C. E. Rasmussen. Des. 76,688; Oct. 23.
Clamping and supporting device, Combined. H. Graham. 1,689,022; Oct. 23.
Clasp for watch chains, Safety. H. J. Rivers. 1,688,506; Oct. 23.
Cleaner: *See*—
Blackboard cleaner. Vacuum cleaner.
Boiler soot cleaner. Windshield cleaner.
Cleaner for carburetors, Gravity air. A. C. Bennett. 1,689,104; Oct. 23.
Cleaning composition. S. D. Franko. 1,688,540; Oct. 23.
Cleaning device, Chimney. W. Koss. 1,688,638; Oct. 23.
Cleaning device, Power-driven. S. Varner. 1,689,166; Oct. 23.
Cleaning thrashed cereals. A. Altamirano. 1,688,678; Oct. 23.
Clip: *See*—
Window-glass clip.
Clock dial. M. Salinger. Des. 76,705; Oct. 23.
Closet: *See*—
Water-closet.
Closure. W. Schwemlein. 1,689,057; Oct. 23.
Clutch device. H. E. Christie. 1,688,852; Oct. 23.
Clutch for drilling machines, Automatic positive-feed. D. C. Klausmeyer. 1,688,547; Oct. 23.
Coal. G. J. Esselen, jr., and M. W. Weiss. 1,688,695; Oct 23.
Coal and similar carbonaceous substances, Apparatus for the distillation of. C. H. Parker. 1,689,152; Oct. 23.
Coat. K. E. Burns. Des. 76,663; Oct. 23.
Coating machine. T. B. Huestis. 1,688,632; Oct. 23.
Colander strainer. A. G. Andrews. 1,688,846; Oct. 23.
Columns, girders, beams, and the like for interlocking joints, Shaping. W. Walt. 1,688,950; Oct. 23.
Compound, Complex antimony. H. Habl. 1,688,964; Oct. 23.
Compounds, Reduction of aromatic nitro. P. Dieterle. 1,689,014; Oct. 23.
Compressor. J. H. Schreiber. 1,688,990; Oct. 23.
Compressor. C. C. Spreen. 1,688,884; Oct. 23.
Compressor. G. L. Strebler. 1,689,179; Oct. 23.
Compressor for refrigerating apparatus. M. E. Thompson. 1,688,903; Oct. 23.
Compressor, Ring. B. M. Coleman. 1,689,115; Oct. 23.
Concrete-block machines, Attachment for. E. A. Long. 1,688,627; Oct. 23.
Concrete blocks, Method of and machine for handling molded. H. C. Parker. 1,688,650; Oct. 23.
Concrete-form clamp. R. G. and G. W. Mercer. 1,689,151; Oct. 23.
Concrete mixers and distributors, Carriage for. J. C. Lukachovic and H. C. Peters. 1,689,143; Oct. 23.
Condenser, Electrical. W. Dubilier. 1,688,960–1; Oct. 23.
Condenser, Electrical. A. J. Weiss. 1,688,478; Oct. 23.
Condenser for automobile radiators. S. K. Palmer. 1,688,829; Oct. 23.
Condenser, Variable. H. H. Ide. 1,688,813; Oct. 23.
Connecting device. L. D. Gregg. 1,689,023; Oct. 23.
Console bowl or similar article. R. E. McEldowney. Des. 76,699; Oct. 23.
Contact tips, Making. W. W. Brown. Re17,108; Oct. 23.
Container. W. S. Grant. 1,688,703–4; Oct. 23.
Container, Packing. M. Froedevaux. 1,689,018; Oct. 23.
Container, Plant. J. T. Fewkes. 1,689,017; Oct. 23.
Container, Sectional car. R. T. Romine. 1,688,437; Oct. 23.
Convertible stand, Knockdown. W. C. Kirk. 1,688,546; Oct. 23.
Conveyer. I. G. Fowler. 1,688,698; Oct. 23.
Cooking mold. A. Allis. 1,688,319; Oct. 23.
Cooking utensil. W. R. Dick. 1,688,690; Oct. 23.
Cooler: *See*—
Bottle cooler.
Cooler for sheet-glass apparatus. J. L. Drake. 1,688,530; Oct. 23.
Cooling gas engines, Device for. N. J. Benson. 1,688,447; Oct. 23.
Cooling system, Air-. L. E. Smitley and F. S. Moore. 1,689,162; Oct. 23.
Cope head for tenoners and the like. H. T. Ahrendt 1,688,913; Oct. 23.
Cord, Electrical and instrument. J. D. Williams. 1,688,605; Oct. 23.
Cord fabric. R. D. Evans. 1,689,119; Oct. 23
Cotton chopper. J. L. Parks. Re17,113; Oct. 23.
Counterbalance. H. H. Talbot. 1,688,361; Oct. 23.
Counter bin. A. J. Burg. 1,688,521; Oct. 23
Coupling: *See*—
Rod coupling.
Coupling device. L. G. Trinquart. 1,688,564; Oct. 23
Cover adjuster, Outlet-box-. J. G. Bennett. 1,688,518; Oct. 23.
Cover paper or the like. W. B. Pitts. Des. 76,702; Oct. 23.
Crossing signal, Railroad-. C. H. Taylor. 1,689,165; Oct. 23.
Crystal apparatus, Piezo-electric-. A. Hund. 1,688,714; Oct. 23.
Cutting concave surfaces, Machine for. J. E. Branson. 1,688,781; Oct. 23.
Cutting device. W. W. Brust. 1,689,110; Oct. 23.
Cutting machine, Cereal-. H. G. Woodhead. 1,688,770; Oct. 23.
Decoration, Automobile front end. R. G. Seals and E. N. C. Kuntz. Des. 76,712; Oct. 23.
Dehydration of alcohol. S. R. Merley. 1,688,731; Oct. 23.
Delivery apparatus. H. W. Orndoff. 1,688,397; Oct. 23.
Dental apparatus. G. A. Swendiman. 1,688,670; Oct. 23.
Dental records, Making. R. L. Hanau. 1,688,492; Oct. 23.
Detector: *See*—
Sheet detector.
Device for preventing theft of automobiles on highways. G. A. Wettengel. 1,688,479; Oct. 23.
Device for preventing theft or unauthorized use of automobiles. J. Holtzman. 1,688,496; Oct. 23.
Digging implement. L. E. Younie. 1,688,771; Oct. 23.
Dinitro derivatives of perilene and its compounds, Manufacturing. K. Stieger. 1,688,837; Oct. 23.
Dipper handle. W. M. Sheehan. 1,688,664; Oct. 23.
Dish or similar article. W. P. Graham. Des. 76,681; Oct. 23.
Dishwasher. A. E. Quant. 1,688,654; Oct. 23.
Dispenser for lubricating oils. S. J. Pocock. 1,688,352; Oct. 23.
Dispensing device. C. W. Boles. 1,688,609; Oct. 23.
Dispensing device, Tooth-paste-. U. T. Walker. 1,688,512; Oct. 23.
Display card. E. R. Person. 1,688,985; Oct. 23.
Display card. P. L. Rittenhouse. 1,689,155; Oct. 23.
Display case. O. A. Hansen. 1,689,134; Oct. 23.
Display stand. E. R. Ellis. Des. 76,672; Oct. 23.
Display stand, Cosmetic-. H. Waldman. Des. 76,726; Oct. 23.
Doll. C. E. Davey. Des. 76,666; Oct. 23.
Doorcheck. G. H. Waldbauer. 1,689,001; Oct. 23.
Door check and closer. P. S. Morgan. 1,688,428; Oct. 23.
Door for refrigerators, Rear icing. C. H. Leonard. 1,688,870; Oct. 23.
Door handle or similar article, Automobile. W. C. Devereaux. Des. 76,671; Oct. 23.
Door lock. B. Kovacs. 1,689,033; Oct. 23.
Doors, Adjustable striker plate for. E. R. and R. H. Kissinger. 1,688,626; Oct. 23.

Draft fan inclosure, Forced-. W. D. Calhoun. 1,688,850; Oct. 23.
Draft rigging for railway cars. C. J. Nash. 1,688,593; Oct. 23.
Drain board for wringers. C. Metrewitz. 1,688,733; Oct. 23.
Draining land, Apparatus for. F. S. Romney. 1,688,356; Oct. 23.
Drapery-pole bracket. R. H. Vermillion. Des. 76,723–4; Oct. 23.
Drawing board. C. E. Barker. 1,688,516; Oct. 23.
Dress, Diving. Y. Murakami. 1,689,079; Oct. 23.
Drier: *See*—
Shoe drier.
Drier. D. H. Applegate, jr. 1,689,099; Oct. 23.
Drilling apparatus. B. T. Anfield. 1,688,774; Oct. 23.
Drilling holes, Method and apparatus for. E. Smith. 1,688,994; Oct. 23.
Drilling mechanism. E. G. Gartin. 1,688,807; Oct. 23.
Drinking glass. H. H. Dawson. Des. 76,667–70; Oct. 23.
Drum for centrifugal separating apparatus. K. J. Svensson and K. A. F. Norling. 1,688,838; Oct. 23.
Drum, Practice. J. J. Straub. 1,688,561; Oct. 23.
Dry battery. W. M. Turnley. 1,688,565; Oct. 23.
Drying ceramic ware and apparatus therefor. T. H. Rhoads. 1,689,082; Oct. 23.
Drying metal cans, Apparatus for. N. H. Goldsworthy and G. Flook. 1,688,541; Oct. 23.
Dyeing of materials made with or containing cellulose derivatives. H. C. Olpin. 1,688,553; Oct. 23.
Edible container. D. Gerber. Des. 76,675; Oct. 23.
Electric control apparatus. W. S. Ferdon. 1,689,121; Oct. 23.
Electric device, Piezo-. A. L. R. Ellis. 1,688,694; Oct. 23.
Electric machine, Dynamo-. R. Pohl. 1,689,187; Oct. 23.
Electric machine, Dyanmo-. R. Pohl and H. G. Reist. 1,689,188; Oct. 23.
Electric motor. E. Auflero. 1,688,847; Oct. 23.
Electric motor. C. C. Spreen. 1,688,891; Oct. 23.
Electric switch. W. E. Paul. 1,688,747; Oct. 23.
Electric switch, Fluid-pressure-operated. C. C. Hansen. 1,688,866; Oct. 23.
Electrical apparatus. W. S. Moody. 1,688,737; Oct. 23.
Electrical resistance. H. M. Dowsett and H. B. Tilley. 1,688,381; Oct. 23.
Electrical transmission system. G. Musso. 1,688,346; Oct. 23.
Electrically-released brake. J. W. Dodd. 1,688,379; Oct. 23.
Electricity meters, Mechanism for driving and controlling. R. Pudelko. 1,688,353; Oct. 23.
Electron-discharge device. P. Schwerin. 1,688,991; Oct. 23.
Elevator. H. V. McCormick. 1,688,823; Oct. 23.
Enameling articles. P. F. Titchener. 1,689,062; Oct. 23.
Engine: *See*—
Internal-combustion engine. Sleeve-valve engine.
Rotary engine.
Engines, Charge-forming device for internal-combustion. G. Horvath. 1,688,388; Oct. 23.
Evaporator for refrigerating apparatus. L. Bruehl. 1,688,377; Oct. 23.
Explosive mechanism, Automatic. B. Ranzan. 1,688,986; Oct. 23.
Extractor: *See*—
Honey extractor.
Extractor for removing bushings and the like. E. L. Fowler. 1,688,460; Oct. 23.
Fabric: *See*—
Cord fabric. Pile fabric.
Fabric making. A. Bodmer. 1,688,798–9; Oct. 23.
Fan, Centrifugal. J. Mursch and C. F. Schutte. 1,688,345; Oct. 23.
Fastener. C. H. Mensch. 1,689,150; Oct. 23.
Fastener, End-gate. S. C. Highers. 1,688,543; Oct. 23.
Fastener for barbers' aprons. G. L. Pope and A. Cohen. 1,688,880; Oct. 23.
Fastener for glass plates. W. La Hodny and F. X. Kibitz. 1,688,425; Oct. 23.
Fastener, Paper. G. H. Ennis. 1,688,536; Oct. 23.
Fastening, Artificial-tooth. J. Beisler. 1,688,517; Oct. 23.
Fastening-inserting machine. W. T. B. Roberts. 1,688,436; Oct. 23.
Fastening-inserting machine. T. H. Seely. 1,688,663; Oct. 23.
Fastening mechanism for grave vaults. A. F. Beck. 1,689,101; Oct. 23.
Faucet. J. Magazzini and F. J. Dowd. 1,688,391; Oct. 23.
Faucet. S. Smith. Des. 76,713–14; Oct. 23.
Faucet, Measuring. C. F. Wray and M. Blickman. 1,689,096; Oct. 23.
Feed mechanism, Automatic. A. R. Willard. 1,688,369; Oct. 23.
Feed mechanism, Bottle-crate-. C. W. Walker. 1,688,368; Oct. 23.
Feeder for blank scoring and slotting machines. W. M. Forward. 1,688,459; Oct. 23.
Feeding and manipulating means, Lumber. L. J. Grubman, and E. A. Godley. 1,688,416; Oct. 23.
Feeding apparatus, Pressure-. L. C. Huff. 1,688,812; Oct. 23.
Feeding cups or containers to filling or other machines, Device for. C. Taylor. 1,688,510; Oct. 23.
Fiber material, Apparatus for softening, refining, and cleaning entangled and short-. E. Gminder. 1,688,384; Oct. 23.
Filaments or threads of cellulose derivatives and making same. H. Dreyfus. 1,688 532; Oct. 23.
Film-carrying strip. A. Price. 1,688,653; Oct. 23.
Films of cellulose derivative, Production of thin. A. Eichengrün. 1,688,457; Oct. 23.
Filter. A. Boulade. 1,688,326; Oct. 23.
Finger ring. M. Lepow. Des. 76,694; Oct. 23.
Fire alarm. J. E. Irby. 1,688,635; Oct. 23.
Fire extinguisher. G. T. Pearsons. 1,688,347; Oct. 23.
Fish bait. W. W. Helle. 1,689,027; Oct. 23.
Flange, No-slip. P. Mueller and A. C. Schuermann. 1,688,629; Oct. 23.
Flush tank. J. Bartosik. 1,688,797; Oct. 23.
Fly shoo. A. Cain. 1,689,112; Oct. 23.
Focusing device. A. H. Handlan. 1,688,619; Oct. 23.
Footwear. H. C. Wagner. 1,689,000; Oct. 23.
Fork: *See*—
Carving fork.
Frame: *See*—
Side frame.
Frequency arrangement in carrier-wave systems. R. A. Heising. 1,689,026; Oct. 23.
Frost-prevention apparatus. J. W. Crowhurst. 1,688,802; Oct. 23.
Fuel-oil burner. L. S. Chadwick, M. Resek, and J. A. Dahlstrom. 1,688,448; Oct. 23.
Furnace: *See*—
Heating furnace. Warm-air furnace.
Furnace. F. W. Manker. 1,688,393; Oct. 23.
Furnace. A. N. Otis and L. F. Woolston. 1,688,745; Oct. 23.
Furnace. H. Tielkemeyer. 1,688,763; Oct. 23.
Furnace-tapping machine. E. E. Brosius. 1,688,327; Oct. 23.
Furnace-wall construction, Air-cooled. L. S. Abbott. 1,688,321; Oct. 23.
Furnace-wall structure. E. Lundgren. 1,688,339; Oct. 23.
Fuse. C. H. Pearson. 1,688,652; Oct. 23.
Game board. H. Schlesinger. 1,688,942; Oct. 23.
Game of skill. F. W. Mills. 1,688,590; Oct. 23.
Garment band, Detachable. R. M. G. Phillips. 1,688,431; Oct. 23.
Garment hanger. C. P. Gass. 1,689,126; Oct. 23.
Garment, Woman's. J. Foerch. 1,689,125; Oct. 23.
Gas burner. J. Mackenzie. 1,688,641; Oct. 23.
Gas-producing apparatus. W. L. Shepard. 1,689,159; Oct. 23.
Gear, Draft. B. W. Kndel. 1,688,389; Oct. 23.
Gear, Hydraulic power-transmission. A. Huwiler. 1,688,068; Oct. 23.
Gear-shift mechanism. B. F. Schmidt. 1,688,750; Oct. 23.
Gear, Transmission. S. O. White. 1,689,180; Oct. 23.
Gearing, Transmission. C. E. F. Ahlm. 1,688,844; Oct. 23.
Glass, Method of and apparatus for annealing. F. W. Preston. 1,689,048; Oct. 23.
Goblet. M. L. Fletcher. Des. 76,673; Oct. 23.
Goggles. G. Ratti. 1,688,433; Oct. 23.
Goggles. W. J. Wrighton. 1,688,446; Oct. 23.
Golf-bag rack. E. A. Darby. 1,688,412; Oct. 23.
Grid, Can. N. M. Small and L. Buehler, jr. 1,689,060; Oct. 23.
Grille. P. Sylvester. 1,689,164; Oct. 23.
Grinder, Valve. R. Bjorklund. 1,689,105; Oct. 23.
Grinding machine. H. K. Spencer. 1,689,176; Oct. 23.
Grindstone. A. E. Maynard. 1,688,468; Oct. 23.
Grounding mechanism. C. W. Wyman. 1,689,098; Oct. 23.
Gum and package confection case, Combined. L. W. Buchenau and S. N. Blewett. Des. 76,662; Oct. 23.
Hair-waving machines, Pedestal dome for permanent-. W. E. Lippert. Des. 76,696; Oct. 23.
Hammer, Pneumatic. O. E. Clark. 1,688,449; Oct. 23.
Handle: *See*—
Dipper handle.
Hanger: *See*—
Garment hanger.
Harrow. J. F. Rude. 1,689,053; Oct. 23.
Head clamp, Sinus. D. M. Ghrist. 1,688,382; Oct. 23.
Header for water-tube boilers, Sectional. A. Cotton. 1,688,574; Oct. 23.
Heading and elevating machine. H. D. Rose and A. Manthe. 1,688,659; Oct. 23.
Headlight, Swinging automobile. J. R. Cambron. 1,689,107; Oct. 23.
Heat control for internal-combustion engines, Thermostatic. W. G. Heginbottom and J. R. Francis. 1,688,387; Oct. 23.
Heater: *See*—
Air heater. Oil heater.
Heating and ventilating apparatus. A. R. Teare. 1,688,362–3; Oct. 23.
Heating furnace, Blank-. H. C. Johansen. 1,688,814; Oct. 23.
Heating furnace, Sheet and pair. F. W. Manker. 1,688,394 Oct. 23.
Heating liquids by electrical energy. G. Baum. 1,688,679; Oct. 23.
Heating liquids by electrical energy, Apparatus for. G. Baum. 1,688,680; Oct. 23.
Heating system. M. Resek. 1,688,658; Oct. 23.
Highway crossing. C. A. Skuitin. 1,689,161; Oct. 23.
Hinge, Concealed. J. Soss. 1,688,996; Oct. 23.
Hinge, Spring. A. E. Hyland. 1,688,930; Oct. 23.
Hitch for engine lifters. J. F. Farmer. 1,689,170; Oct. 23.
Hoisting apparatus. O. H. Schuh. 1,688,507; Oct. 23.

Holder, Cigarette. M. Straus. Des. 76,717; Oct. 23
Holder, Cream-can-cover D. J. Lassle. 1,688,465; Oct. 23.
Holder for glassware, etc. E. J. Kiefer. 1,688,424; Oct. 23.
Holder for nursing bottles. M. Veras. 1,688,765; Oct. 23.
Holder, Gas. G. T. Horton. 1,688,868; Oct. 23.
Holder, License G. Tafelski. 1,689,088; Oct. 23.
Holder, Nail. I. N. Williams. 1,688,445; Oct. 23.
Holder or similar article, Cigarette. M. Straus. Des. 76,718; Oct. 23.
Holder or similar article, Pipe-. M. Straus. Des. 76,716; Oct. 23.
Holder, Twine. T. P. Harris. 1,688,923; Oct. 23.
Hollow mill. O. Severson. 1,688,558; Oct. 23.
Honey extractor, Centrifugal G. Y. Harry. 1,688,493; Oct. 23.
Hook and wire adjuster, Picture. M. S. Sykes. 1,688,562; Oct. 23.
Horn for loud speakers. S. H. Byrns. 1,689,009; Oct. 23.
Horseshoe. A. R. Swanstrom. 1,688,601; Oct. 23.
Hubs and the like, Making. H. S. Holmes. 1,688,421; Oct. 23.
Hydraulic machine, Axial-flow. J. H. W. Gill. 1,688,808–9; Oct 23.
Hydrocarbons, Cracking. J. E. Bell. 1,688,325; Oct. 23.
Hydrocarbons, Cracking. G. Egloff and H. P. Benner. 1,688,859; Oct. 23.
Hydrolysis of methyl chloride. R. H. McKee. 1,688,726; Oct. 23.
Ice-bag cap. C. H. C. Russell, O. F. Marcotte, and L. J. Hugues. 1,689,083; Oct. 23.
Ice-can-submerging device. L. Kobash. 1,688,815; Oct. 23.
Ice-cream cone. D. Gerber. Des. 76,766–80; Oct. 23.
Ice pick. C. E. Chase. Des. 76,664; Oct. 23.
Igniter, Gas-burner. W. F. Dester. 1,688,487; Oct. 23.
Ignition device. W. Walther and G. Rau. 1,688,951; Oct. 23.
Ignition means for burners, Electrical spark. F. Fischer and A. F. Van Pelt. 1,688,864; Oct. 23.
Implement, Soil-working. W. H. Kammerer. 1,688,971; Oct. 23.
Index and signal therefor, Card. A. H. Helland. 1,688,965; Oct. 23.
Indicator: *See*—
Paper-break indicator.
Indicator for trains, Automatic station. I. Mendelsohn. 1,688,979; Oct. 23.
Inductance device, Variable-. M. K. Akers. 1,689,006; Oct. 23.
Ingot molds, Hot top for. W. H. Ramage. 1,689,175; Oct. 23.
Ingot molds, Separable hot top for. J. E. Perry. 1,689,174; Oct. 23.
Inking device. F. W. Storck. 1,689,177; Oct. 23.
Installing device for placing reenforcing in concrete. S. M. Kirshner. 1,688,973; Oct. 23.
Instrument assembly. A. Champion. 1,688,522; Oct. 23.
Insulator, Electrical. W. S. Cook. 1,688,411; Oct. 23.
Initial-charge-increasing mechanism. J. Gluck. 1,688,383; Oct. 23.
Internal-combustion engine. E. R. Burtnett. 1,688,610; Oct. 23.
Internal-combustion engine. N. E. Methlin. 1,688,550; Oct. 23.
Internal-combustion engine. W. Schulz. 1,688,944; Oct. 23.
Internal-combustion engine. C. Webb. 1,688,767; Oct. 23.
Internal-combustion engine, Two-stroke-cycle. A. O. L. Wennerby. 1,688,794; Oct. 23.
Iron pipe, Cast-. J. R. McWane. 1,688,727; Oct. 23.
Ironing board. J. E. Kalgren. 1,688,636; Oct. 23.
Ironing machine. H. C. and N. C. Ellis. 1,689,015; Oct. 23.
Jack: *See*—
Lifting jack.
Joint: *See*—
Cable joint. Rail joint.
Joint clamp. S. A. Jones. 1,688,623; Oct. 23.
Joint for metallic frames, Interlocking. W. Walt. 1,688,949; Oct. 23.
Joint hinge members, Manufacturing covered. J. T. Atwood. 1,688,955; Oct. 23.
Key, Spring-lock. F. Nelson. 1,688,742; Oct. 23.
Knitting machine. O. L. Rimel. 1,688,791; Oct. 23.
Laboratory apparatus. R. Stark. 1,688,404; Oct. 23.
Lace. B. A. Ball. Des. 76,659–60; Oct. 23.
Ladle-tilting apparatus. T. A. Repper. 1,688,657; Oct. 23
Lamp, Automobile combination signal and dimming. G. K. Hundley. 1,688,497; Oct. 23.
Lamp, Battery hand. H. F. Beebe. 1,688,373; Oct. 23.
Lamp, Battery hand. H. W. Staples. 1,688,560; Oct. 23.
Lamp, Bridge. J. B. Salterini. Des. 76,707; Oct. 23.
Lamp, Bridge. J. B. Salterini. Des. 76,709; Oct. 23.
Lamp, Electric. W. R., Burrows. 1,688,783; Oct. 23.
Lamp, Electric. B. Llaurado. 1,688,549; Oct. 23.
Lamp, floor. J. B. Salterini. Des. 76,706; Oct. 23.
Lamp focusing and adjusting device. S. W. Hyatt. 1,688,544; Oct. 23.
Lamp, Gas-filled electric incandescent. J. Bergmans and T. J. J. A. Manders. 1,688,777; Oct. 23.
Lamp-holding attachment for miners' caps, Electric-. C. W. Watkins. 1,689,090; Oct. 23.
Lamp, Table. J. B. Salterini. Des. 76,708; Oct. 23.
Lamp, Table. J. B. Salterini. Des. 76,710; Oct. 23.
Last. J. J. Mahler. 1,688,466; Oct. 23.
Last, Divided. G. M. Ray. 1,688,354; Oct. 23.
Latch. B. R. Crampton. 1,688,526–7; Oct. 23.
Latch. J. H. Shaw. 1,688,472; Oct. 23.
Lavatory bowl. C. B. Nash. Des. 76,700; Oct. 23.
Leaf turner. L. Boyd. 1,689,106; Oct. 23.
Leather-working machine. L. O. Ramsdell. 1,688,655; Oct. 23.
Lens attachment for photographic apparatus. O. Wittel. 1,688,370; Oct. 23.
Lens-attachment mount for photographic apparatus. D. H. Stewart. 1,688,441; Oct. 23.
Lens for vehicle lamps. W. D. Ryan. 1,688,557; Oct. 23.
License plate, Folding. H. Jaschun. 1,689,140; Oct. 23.
Lid support. A. E. Lane. 1,688,404; Oct. 23.
Lifting and carrying device. A. Meyer. 1,689,044; Oct. 23.
Lifting attachment for tractors, Stalk-. R. W. Olson. 1,689,046; Oct. 23.
Lifting jack. C. D. Ellwood. 1,688,862; Oct. 23.
Light control, Traffic-. O. R. Lehman. 1,689,075; Oct. 23.
Light fixture and speaker, Combination. F. A. Standiford. Des. 76,716; Oct. 23.
Lighter, Body for a portable cigarette and cigar. I. Florman. Des. 76,674; Oct. 23.
Lighter, Vapor cigar. E. F. Clark. 1,688,485; Oct. 23.
Lighting fixture. F. W. L. Fullerton. 1,689,019; Oct. 23.
Lighting machine for cycles and motor cycles, Magneto-electric-. L. Hemmeler. 1,688,810; Oct. 23.
Lining composition for metallic containers. T. Domoto. 1,688,857; Oct. 23.
Lining-trimming machine. A. C. Smith. Re17,112; Oct. 23.
Liquids with solids or semisolid substances or with other liquids, Apparatus for mixing. N. Bendizen. 1,689,103; Oct. 23.
Loading and unloading mechanism. R. C. Osgood. 1,688,828; Oct. 23.
Lock: *See*—
Door lock.
Lock for automobiles, Coincidental. A. A. Welman. 1,688,568; Oct. 23.
Lock for radiator valves and the like. W. K. Simpson. 1,688,400; Oct. 23.
Lock or similar article, Brief-case. M. Leventhal. Des. 76,695; Oct. 23.
Locker. J. W. Sharp. 1,688,834; Oct. 23.
Locomotive boiler. J. L. Nicholson. 1,688,594; Oct. 23.
Locomotive equilizer rigging. C. B. Harbison. 1,688,419; Oct. 23.
Locomotives, Drop-pit mechanism for unwheeling. O. L. Coffey. Re17,116; Oct. 23.
Looms, Stopping device for. S. Brügger. 1,688,782; Oct. 23.
Loop for bird-cage stands. L. J. Leon. Des. 76,692–3; Oct. 23.
Loud-speaker unit. M. A. Kennedy. 1,688,625; Oct. 23.
Lubricating device. C. L. Zabriskie. 1,689,186; Oct. 23.
Lubricating device, Swivel-type. R. M. Schlegel. 1,688,941; Oct. 23.
Lubricating system. O. Zerk. 1,688,571; Oct. 23.
Lubricator. E. F. Terry, jr. 1,688,946; Oct. 23.
Lubricator and feeder for engines, Fluid-operable. F. K. Murphy and R. W. Retterer. Re17,110; Oct. 23.
Machine for and method of heel-seat fitting. R. F. Joyce. 1,688,462; Oct. 23.
Machine for applying belt fasteners and the like. J. K. Diamond. 1,689,012; Oct. 23.
Machine for applying solder to pins. A. E. Gibson. 1,688,490; Oct. 23.
Machine for cleaning dust-collector tubes. V. B. McLean. 1,688,936; Oct. 23.
Machine for forming book end sections. S. Smith. 1,688,666; Oct. 23.
Machine for making articles composed of wire rings or links. F. A. K. Rolle. 1,688,988; Oct. 23.
Machine for making elastic paper. W. A. Lorenz. 1,689,037; Oct. 23.
Magazine for tickets. P. Gagneau. 1,688,865; Oct. 23.
Mangle. H. Ahlin. 1,689,005; Oct. 23.
Map case. J. Winter. 1,688,677; Oct. 23.
Marker, Arch-support. P. F. Marron. 1,689,040; Oct. 23.
Massage roller, Self-. B. Trankowski and G. Grodd. 1,688,764; Oct. 23.
Mat rack, Gymnasium-. A. B. Horne. 1,688,583; Oct. 23.
Mattresses, Process and apparatus for making composite. J. H. Hirsch and J. F. Gail. 1,688,333; Oct. 23.
Measuring apparatus, Electrical. L. L. Lockrow. 1,688,932; Oct. 23.
Measuring-can filler. J. G. Radinger. 1,688,773; Oct. 23.
Measuring device, Grease-. J. C. Mulder. 1,688,505; Oct. 23.
Measuring instruments, Separable-arm construction for. E. H. Bristol. 1,689,182; Oct. 23.
Measuring the shrinkage of materials, Apparatus for. F. W. Gunther and G. P. Fisher. 1,688,330; Oct. 23.
Mechanical elements from shafts, etc., Device for removing. A. K. Ellis and R. Henry. 1,688,535; Oct. 23.
Mechanism for actuating change-speed gears. H. Moran. 1,689,045; Oct. 23.
Metal-working machine. B. M. W. Hanson. 1,689,135; Oct. 23.

Meter for measuring combined polyphase and signal-phase electrical energy. G. F. Drewry. 1,688,858; Oct. 23.
Milking-machine pulsator. S. J. Erling. 1,688,863; Oct. 23.
Mill: *See*—
Hollow mill. Stamping mill.
Rolling mill.
Mining, Apparatus for. F. B. Miller. Re17,109; Oct. 23.
Mixing and vaporizing device. H. M. Cogan. 1,688,687; Oct. 23.
Mixing device for oil-gas apparatus. A. J. Bassett. 1,688,320; Oct. 23.
Mold: *See*—
Cooking mold. Permanent mold.
Molding. C. D. Pettis. 1,688,350; Oct. 23.
Molding apparatus. D. J. Campbell. 1,688,784; Oct. 23.
Molding apparatus. L. J. Grubman. 1,688,417; Oct. 23.
Mop. H. M. Van Deusen. 1,688,948; Oct. 23.
Mothproofing fabrics. H. I. Jones. 1,688,717; Oct. 23.
Motor: *See*—
Electric motor. Spring motor.
Motor-control mechanism. L. P. Hutt. 1,688,715; Oct. 23.
Motor or engine, Vapor. J. G. Prosser. 1,689,049; Oct. 23.
Mowing machines, Seed-saving attachment for. J. C. Jones. 1,688,969; Oct. 23.
Muffler. A. F., Dormeyer. 1,688,488; Oct. 23.
Neon tube. R. R. Machlett. 1,689,146; Oct. 23.
Neutralizing alternating currents. J. W. Milnor. 1,688,735; Oct. 23.
Noise and vibration reducing device. H. L. Rogers. 1,689,052; Oct. 23.
Nozzle, Adjustable. J. W. Cottingham. 1,688,614; Oct. 23.
Nut-cracking machine. H. H. Hill. 1,688,966; Oct. 23.
Oil and producing same, Cutting. M. P. Davis. 1,689,011; Oct. 23.
Oil apparatus. C. F. Tears. 1,688,839; Oct. 23.
Oil burner. C. A. Berkins. 1,688,375; Oct. 23.
Oil burner. A. I. Carnine. 1,689,113; Oct. 23.
Oil burner. F. and J. Engel. 1,688,806; Oct. 23.
Oil burner. G. A. Fiscalini. 1,688,538; Oct. 23.
Oil burner. S. E. Meyers. 1,688,395; Oct. 23.
Oil burner. C. R. Smith. 1,688,509; Oct. 23.
Oil burner. T. F. Williams. 1,689,064; Oct. 23.
Oil-burning apparatus. M. Resek and J. A. Dahlstrom. 1,688,435; Oct. 23.
Oil-change recorder. D. M. Winans. 1,689,181; Oct. 23.
Oil, Cracking. G. Egloff. 1,688,860; Oct. 23.
Oil, Cracking. R. T. Pollock. 1,688,830; Oct. 23.
Oil, Flotation. R. Luckenbach. 1,688,975; Oct. 23.
Oil heater. W. E. Baker. 1,688,796; Oct. 23.
Oils, Converting petroleum. A. D. David. 1,688,855; Oct. 23.
Oiler. E. H. Barker. 1,688,372; Oct. 23.
Optical system. W. L. Wright and S. M. Wright. 1,688,606; Oct. 23.
Orchestral device, Automatically-operated. W. R. Corbett. 1,688,450; Oct. 23.
Ores, Froth-flotation concentration of. F. Swinney. 1,688,998; Oct. 23.
Ornament setting, Detachable. J. E. Fitzgerald. 1,689,124; Oct. 23.
Ornamenting sheet material. R. Harvey and H. V. Day. 1,688,924; Oct. 23.
Oscillator system, Piezo-electrical. A. Hund. 1,688,713; Oct. 23.
Oven, Enameling. C. L. Heisler. 1,688,710; Oct. 23.
Packaging machine. L. W. Tiffany. 1,688,406; Oct. 23.
Pail and harness, Combination. W. H. Richardson and E. F. Masl. 1,689,051; Oct. 23.
Paper-break indicator. E. P. Sheldon. 1,688,835; Oct. 23.
Paper-take-up mechanism. A. S. Wheelbarger. 1,688,444; Oct. 23.
Partition for jails and the like, Visitor's. G. J. Kosters. 1,689,172; Oct. 23.
Passageway-control mechanism. F. Hedley and J. S. Doyle. 1,688,709; Oct. 23.
Pen, Fountain. H. Köhler. 1,689,142; Oct. 23.
Perforating laminated fabrics, Method of and machine for. J. I. Haase. 1,689,133; Oct. 23.
Permanent mold. J. T. Warner. 1,688,602; Oct. 23.
Petroleum oil, Cracking. G. Egloff. 1,688,861; Oct. 23.
Picture apparatus, Motion- W. L. Wright. 1,688,607; Oct. 23.
Picture display, Animated- J. T. Beechlyn. 1,689,102; Oct. 23.
Picture frame or similar article. L. W. Rice. Des. 76,704; Oct. 23.
Pile fabric, Woven. H. Mason. 1,688,341; Oct. 23.
Pipe: *See*—
Iron pipe.
Pipe cleaner. G. Morgan. 1,688,874; Oct. 23.
Pipe fitting. W. G. Dows. 1,688,921; Oct. 23.
Pipe wrench. G. E. Knight. 1,688,931; Oct 23
Piston, Adjustable gas-engine. W. L. Schoengarth. 1,688,792; Oct. 23.
Piston for charge-pumping cylinders. E. R. Burtnett. 1,688,611; Oct. 23.
Piston for internal-combustion engines. E. A. Sperry. 1,688,403; Oct. 23.
Piston for refrigeration pumps. C. C. Spreen. 1,688,889; Oct. 23.
Planter, Cotton. P. H. Lynch. 1,688,934; Oct. 23.
Planters, Attachment for check-row corn. J. R. Lewis. 1,688,724; Oct. 23.
Plastic and moldable composition, Producing. C. Kulas. 1,688,500; Oct. 23.
Plate column. T. Baker, and W. A. Peters, jr. 1,688,515; Oct. 23.
Platform, Bather's inclined rotary water. M. J. Hire. 1,689,138; Oct. 23.
Pliers. H. A. Mead. 1,688,729; Oct. 23.
Plow, Ditching. S. O. Martin. Re17,117; Oct. 23.
Plow, Subsoil. G. W. Wyche. 1,689,065; Oct. 23.
Plows, Leveling device for. E. H. Daniel. 1,688,615; Oct. 23.
Poker-set stand. A. P. Ball. Des. 76,658; Oct. 23.
Post: *See*—
Binding post.
Potassium chloride, Recovery of. N. M. McGrane. 1,688,873; Oct. 23.
Pots, Making annealing. J. H. Taylor. 1,688,999; Oct. 23.
Powder box. J. Stiriss. 1,688,442; Oct. 23.
Powder box, Talcum. H. R. Corey. 1,688,688; Oct. 23.
Power means for ships and the like, Auxiliary. J. A. Choquette. 1,689,114; Oct. 23.
Power mechanism. F. F. Dorsey. 1,688,380; Oct. 23.
Power transmission. H. B. Chalmers. 1,688,785; Oct. 23.
Power-transmission apparatus. A. A. Densmore. 1,688,486; Oct. 23.
Power transmitter. G. M. Eames and I. F. Webb. 1,688,414; Oct. 23.
Preserving products formed of rubber. T. M. Rector. 1,688,355; Oct. 23.
Press *See*—
Shoe press.
Pressing machine. E. Davis. 1,688,920; Oct. 23.
Pressing machines, Pressure control for. E. Davis. 1,688,918; Oct. 23.
Price scale. J. Fischer. 1,688,539; Oct. 23.
Primer, fuel economizer, and humidifier, Combined. O. G. Moll. 1,688,343; Oct. 23.
Printing machine. G. E. Holmes. 1,688,967; Oct. 23.
Printing machine. S. O'Hara. 1,688,470; Oct. 23.
Printing machine, Intaglio. A. M. Zuckerman. 1,688,843; Oct. 23.
Printing plate and making the same. E. E. Novotny. 1,688,645; Oct. 23.
Printing-plate matrix and making the same. E. E. Novotny. 1,688,646; Oct. 23.
Printing plates, Correcting. E. E. Novotny. 1,688,647; Oct. 23.
Printing plates, Curving. E. E. Novotny. 1,688,648; Oct. 23.
Propeller for the propulsion of all kinds of craft for use in water and air, Screw or worm. J. K. Larson. 1,688,639; Oct. 23.
Protection against attack by mites or insects. W. Ragan. 1,688,597; Oct. 23.
Pulling-over machine. I. Riesz. 1,688,556; Oct. 23.
Pump. D. R. Falconer. 1,689,071; Oct. 23.
Pump. G. L. Strebler. 1,689,178; Oct. 23.
Pump bleeder. A. R. Heggan. 1,688,420; Oct. 23.
Pump for mechanical refrigeration. C. C. Spreen. 1,688,890; Oct. 23.
Pump for refrigerating apparatus. C. L. McCuen. 1,688,342; Oct. 23.
Pump, Reciprocating. J. McCallum and H. P. H. Anderson. 1,688,978; Oct. 23.
Pumping apparatus. S. C. Carter. 1,688,484; Oct. 23.
Quadrangle. H. E. S. Chayes and A. P. Jurgensen. 1,688,410; Oct. 23.
Rack: *See*—
Golf-bag rack. Mat rack.
Radiator cap W. Schnell. Des. 76,711; Oct. 23.
Radiator, Cellular. G. Horvath. 1,688,929; Oct. 23.
Radiator wrench. J. R. Cowart. 1,688,525; Oct. 23.
Radio attachment for string instruments. G. T. Hastings. 1,689,136; Oct. 23.
Radiograph exposures, Method and apparatus for taking synchronized. C. N. Weyl. 1,688,675; Oct. 23.
Radio on power lines, Wired. R. D. Duncan, jr. 1,688,692; Oct. 23.
Radio receiving apparatus. S. T. Schofield. 1,688,943; Oct. 23.
Radio receiving sets, Aerial loop mechanism for. V. Alvear. 1,688,845; Oct. 23.
Radio set connection. M. Alden. 1,688,772; Oct. 23.
Radio signaling circuits. R. A. Weagant. 1,688,842; Oct. 23.
Radiotelegraphy. R. H. Ranger. 1,688,554; Oct. 23.
Rail joint. N. A. Doyle. 1,689,169; Oct. 23.
Rail-securing device. W. G. Coughlin. 1,688,801; Oct. 23.
Railway signal. C. Z. Miller. 1,688,734; Oct. 23.
Reading device, Optical. J. C. Karnes. 1,688,637; Oct. 23.
Receiver. H. G. Webster. 1,688,674; Oct. 23.
Receptacle, Shipping. O. O. Brown. 1,689,068; Oct. 23.
Receptacle, Thermo fish. C. E. Soderman. 1,688,440; Oct. 23.
Receptacles, Apparatus for closing and sealing. E. L. Jones. 1,688,499; Oct. 23.
Receptacles, Making. T. B. Wright. 1,689,097; Oct. 23.
Reclining chair. H. F. Doyle. 1,688,576; Oct. 23.
Recorder: *See*—
Oil-change recorder.
Recording device. M. B. Sanders. 1,689,055; Oct. 23.
Reed for looms. F. Hollstein. 1,688,495; Oct. 23.
Reel. W. A. Heinrich. 1,688,582; Oct. 23.

Reenforce element, Structural. D. H. Bitney. 1,688,957; Oct. 23.
Reflectors, Attaching light bulbs to. D. E. Riley. 1,688,598; Oct. 23.
Refrigerant-control mechanism. C. C. Spreen. 1,688,896; Oct. 23.
Refrigerating apparatus. D. Powell. 1,688,596; Oct. 23.
Refrigerating machine. I. Lundgaard. 1,688,589; Oct. 23.
Refrigeration. C. C. Spreen. 1,688,893–9; Oct. 23.
Refrigeration, Mechanical. C. C. Spreen. 1,688,885–8; Oct. 23.
Refrigeration, Mechanical. C. C. Spreen. 1,688,892–5; Oct. 23.
Refrigeration, Mechanical. C. C. Spreen. 1,688,900; Oct. 23.
Refrigerator. J. R. Replogle. 1,688,881; Oct. 23.
Refrigerator. W. H. Whittier. 1,688,908–9; Oct. 23.
Refrigerator car. D. L. Reynolds. 1,689,081; Oct. 23.
Refuse for incineration, Apparatus for preparing. G. M. Wells. 1,689,002; Oct. 23.
Register: *See*—
Cash register.
Regulator: *See*—
Windshield regulator.
Rim attachment, Extension-. N. H. Saunders. 1,688,089; Oct. 23.
Ring. C. H. Lee. Des. 76,691; Oct. 23.
Ring member and making same. C. Steenstrup. 1,688,762; Oct. 23.
Ring-traveler support. G. H. Gilligan. 1,689,127–30; Oct. 23.
Road-strip support. W. E. White. 1,688,906–7; Oct. 23.
Road-surfacing material, Production of. F. W. Vallé-Jones. 1,688,511; Oct. 23.
Roads and the like, Constructing wearing surfaces of. S. E. Finley. 1,689,123; Oct. 23.
Rocker, Bob. M. J. Hire. 1,689,137; Oct. 23.
Rocking-chair. F. J. Liljedahl. 1,688,587; Oct. 23.
Rod coupling. A. B. Parker. 1,689,173; Oct. 23.
Roller: *See*—
Massage roller.
Rolling mill. L. Iversen. 1,688,335; Oct. 23.
Roof and floor construction. J. C. Lathrop. 1,688,723; Oct. 23.
Roof structure. J. H. Goodwin. 1,689,131; Oct. 23.
Roost and dropping-board assembly. H. G. Brahman. 1,688,780; Oct. 23.
Rosary case. M. Rothstein. 1,688,471; Oct. 23.
Rotary engine. C. E. Kraus. 1,688,816; Oct. 23.
Rubber and product thereof, Manufacture of vulcanized. W. Scott. 1,688,758; Oct. 23.
Rubber and product thereof, Manufacturing vulcanized. W. Scott. 1,688,757; Oct. 23.
Rubber and product thereof, Producing vulcanized. W. Scott. 1,688,755; Oct. 23.
Rubber composition and manufacturing same. W. Scott. 1,688,756; Oct. 23.
Rubber-cork articles, Manufacture of molded and vulcanized. R. Grimoin-Sanson and H. Danel. 1,688,491; Oct. 23.
Sadiron. J. A. Spencer. Re17,107; Oct. 23.
Safe construction. D. H. Bellamore and C. P. Bartels. 1,688,849; Oct. 23.
Sand-reel-operating mechanism. R. W. Sage and H. R. Boughner. 1,688,599; Oct. 23.
Sash lifter and latch. B. F. Burt. 1,689,111; Oct. 23.
Sash operator for greenhouses. T. E. King. 1,688,337; Oct. 23.
Saucer, Cup supporting and covering. B. F. Smith. 1,688,992; Oct. 23.
Saw card. W. L. Hancock. 1,688,418; Oct. 23.
Scale, Self-registering and ticket-distributing personal-weighing. J. Nobs. 1,688,552; Oct. 23.
Scoop, Ice-cream. G. T. Parr. 1,688,595; Oct. 23.
Scraping machine, Floor-. J. T. Simpson. 1,688,759; Oct. 23.
Screen: *See*—
Window screen.
Seal, Car. L. Q. Moore. 1,688,738–9; Oct. 23.
Seat structure. G. H. Hamilton and R. A. White. 1,689,024; Oct. 23.
Securing device for fan pulleys and the like. B. D. Hays. 1,688,708; Oct. 23.
Seeders, Control mechanism for cotton-gin. T. Elliott. 1,688,616; Oct. 23.
Separator: *See*—
Battery separator.
Sewing machine. J. R. Oliver. 1,688,938; Oct. 23.
Shackle construction. J. F. Wallace. 1,688,841; Oct. 23.
Shade-roller construction. J. K. Tomlinson. 1,688,563; Oct. 23.
Shaft for golf clubs and the like. C. B. Sippel. 1,688,473; Oct. 23.
Shaft or rod and the like and producing same, Built-up. T. Wensel. 1,688,569; Oct. 23.
Sharpener, Pencil. H. P. Tevonian. 1,688,840; Oct. 23.
Sheet detector. S. A. Comiskey. 1,688,789; Oct. 23.
Sheet-edge block. J. L. Drake. 1,688,529; Oct. 23.
Sheet-forming apparatus. J. L. Drake. 1,688,528; Oct. 23.
Shield, Eye. G. A. Baker. 1,688,775; Oct. 23.
Shield for radio amplifiers or detectors. M. E. Johnson. 1,688,622; Oct. 23.
Shingle. L. Bushn. 1,688,917; Oct. 23.
Shingle, Composition. O. B. Clow. 1,688,612; Oct. 23.
Shining installation, Shoe-. H. E. Schulse. 1,688,753; Oct. 23.
Ships, System of propulsion for. M. A. L. Bidoire. 1,688,376; Oct. 23.
Shock absorber. J. F. O'Connor. 1,688,649; Oct. 23.
Shock absorber for automobile and other springs. A. M. Brown. 1,688,683; Oct. 23.
Shocker, Sheaf. E. A. Wootton. 1,689,094; Oct. 23.
Shoe drier. W. C. Schrenkeisen. 1,688,793; Oct. 23.
Shoe press. J. Amico. 1,688,323; Oct. 23.
Shoe-shining seat. H. E. Schulse. Des. 76,729; Oct. 23.
Shoe soles to the uppers, Device for attaching. F. Sabr. 1,689,157; Oct. 23.
Shoe, Swimming. K. O. F. Jacobsen. 1,688,498; Oct. 23.
Shut-off device for liquid dispensers, Automatic. F. C. Baxter. 1,689,066; Oct. 23.
Side frame, Car-truck. H. E. Doerr. 1,688,856; Oct. 23.
Sight stabilizer, Gyroscopic line of. E. A. Sperry. 1,688,559; Oct. 23.
Sign. E. H. Diebolt. 1,689,117; Oct. 23.
Sign, Detachable. G. A. Elliott. 1,689,070; Oct. 23.
Sign or signal, Road. S. E. W. Haines. 1,688,331; Oct. 23.
Signal: *See*—
Crossing signal. Traffic signal.
Railway signal.
Signal device for oil-pump indicators, etc. E. A. Slye. 1,688,474; Oct. 23.
Signal for motor vehicles, Traffic. J. T. Dailey and J. J. Jackson. 1,688,803; Oct. 23.
Signal for vehicular traffic, Street. J. A. Campbell. 1,688,409; Oct. 23.
Signal system. H. Hubbell. 1,688,631; Oct. 23.
Signal system, Electrical. C. V. Logwood. 1,688,820; Oct. 23.
Signaling, Submarine. J. J. Gilbert. 1,689,020; Oct. 23.
Signaling system. C. A. Sprague. 1,688,997; Oct. 23.
Signals, Apparatus for the control of highway-crossing. H. S. Young and R. M. Gilson. 1,688,912; Oct. 23.
Silk, artificial horsehair, and the like, Manufacture of artificial. H. Dreyfus. 1,688,531; Oct. 23.
Skidder, Tractor-driven. J. V. L. Peacock. 1,688,984; Oct. 23.
Skiving machine. E. J. Ray. 1,688,434; Oct. 23.
Sleeve-valve engine. K. W. Najder. 1,688,741; Oct. 23.
Slicing machine, Meat-. L. L. Bloch. 1,688,573; Oct. 23.
Soil-pulverizing machine. H. Ariens. 1,688,914; Oct. 23.
Soldering device, Type-. A. G. F. Kurowski. 1,688,722; Oct. 23.
Sound amplifier. F. Kuch. 1,688,817; Oct. 23.
Sound-producing apparatus. R. E. J. Daley. 1,688,804; Oct. 23.
Sound reproducer. J. A. Mears. 1,688,730; Oct. 23.
Speaker, Plane-surface piezo-electric loud. A. M. Nicolson. 1,688,743; Oct. 23.
Spectacle frame. S. E. Bouchard. Des. 76,661; Oct. 23.
Spindle drive, Variable. S. Einstein. 1,688,534; Oct. 23.
Spray heads, Determining the area and angle of openings in perforated. K. K. Ledig. 1,688,427; Oct. 23.
Sprayer, Dust. F. E. Greene. 1,688,706; Oct. 23.
Spring. C. F. Ross. 1,688,749; Oct. 23.
Spring motor. C. B. Collins. Re17,106; Oct. 23.
Spring suspension for vehicles. G. A. Lunz. 1,689,038; Oct. 23.
Sprouter, Oat. J. Wastak. 1,688,407; Oct. 23.
Stamping mill, Bronze-. A. Lebrecht. 1,688,548; Oct. 23.
Stand: *See*—
Convertible stand.
Stapling machine. F. Polzer. 1,688,879; Oct. 23.
Steam-accumulator control. H. Smoot. 1,689,061; Oct. 23.
Steels, Making alloy. C. McKnight, jr. 1,689,043; Oct. 23.
Steering mechanism. S. R. W. M. Bager. 1,688,572; Oct. 23.
Steering mechanism for cranes. G. A. Murfey and A. S. Meyer. 1,688,643; Oct. 23.
Steering, propelling, and braking mechanism for vehicles. R. E. Mitton. 1,688,591; Oct. 23.
Step and repeat machine. O. Chouinard. 1,688,786; Oct. 23.
Stocking. N. Judson. Des. 76,690; Oct. 23.
Stocking. E. O. Nebel. Des. 76,701; Oct. 23.
Stocking. W. E. Zander. Des. 76,730; Oct. 23.
Stoker. R. L. Beers. 1,688,608; Oct. 23.
Stoker. O. P. Luetscher. 1,688,338; Oct. 23.
Stokers, Siftings preventer for. A. E. Weingartner. 1,689,092; Oct. 23.
Stool, Adjustable. M. Fox. 1,688,415; Oct. 23.
Store, Self-service. T. C. Nix and M. D. Miller. 1,688,551; Oct. 23.
Stove. E. W. Rogers. 1,689,084; Oct. 23.
Stove, Camp. S. Majewski. Des. 76,697; Oct. 23.
Stove for burning coke. Open-front fireplace. J. S. Owens. 1,688,430; Oct. 23.
Stove, Hot-blast. F. R. McGee. 1,689,042; Oct. 23.
Straightening machine. G. A. Wise. 1,688,480; Oct. 23.
Strainer. W. B. Murden. 1,688,429; Oct. 23.
Strainer. F. G. Singel. 1,688,401; Oct. 23.
Strainer holder. E. R. Schnitger. 1,688,751; Oct. 23.
Strainer screen and making same. P. Mueller. 1,688,630; Oct. 23.
Structural unit. D. H. Bitney. 1,688,958; Oct. 23.
Sugar and paper pulp from cane, Apparatus for simultaneously making. E. A. Vazquez. 1,688,905; Oct. 23.

Sugar and paper pulp from cane, Simultaneously making. E. A. Vazquez. 1,688,904; Oct. 23.
Sulphur of a high degree of dispersion and preparing same. H. Schrader, and H. Schoeller. 1,688,357; Oct. 23.
Sunshade for automobile windows. J. J. Killip. 1,688,719; Oct. 23.
Superheater boiler. R. L. Spencer. 1,688,669; Oct. 23.
Support, Pole. W. Rawley. 1,689,050; Oct. 23.
Supporting cores in molds in the manufacture of tubular castings. J. R. McWane. 1,688,728; Oct. 23.
Switch: *See*—
Electric switch.
Switch plug, Thermostatic. C. Arnesen. 1,689,007; Oct. 23.
Switching apparatus. L. T. Barnes. 1,688,848; Oct. 23.
Switching apparatus. W. M. Scott and J. H. Wyatt. 1,688,754; Oct. 23.
Switching mechanism. C. F. A. Eddy. 1,689,118; Oct. 23.
Switching system for telephone exchanges, Machine. C. F. McCann. 1,688,725; Oct. 23.
Synchronism-indicating means. E. D. Cook. 1,688,790; Oct. 23.
Synchronizing two or more rotating bodies. W. Bock. 1,688,916; Oct. 23.
Table. C. Kuehn. 1,688,818; Oct. 23.
Table and cabinet, Combination dining. C. Dolph. 1,688,456; Oct. 23.
Table or similar article. J. H. Heyman. Des. 76,682–4; Oct. 23.
Table set. J. G. Theobald. Des. 76,719; Oct. 23.
Tack puller and driver. G. H. Fahrenbruch. 1,688,537; Oct. 23.
Tank: *See*—
Flush tank.
Teat cannula. N. Aas. 1,688,795; Oct. 23.
Teeth, Artificial. C. J. Huber. 1,688,621; Oct. 23.
Telephone circuits, Substation. A. B. Smith. 1,688,475; Oct. 23.
Telephone, Hand. O. Weeber. 1,688,477; Oct. 23.
Telephone muffler. W. F. Smith, jr. 1,688,995; Oct. 23.
Telephone signaling system. C. S. Demarest and O. H. Loynes. 1,688,451–5; Oct. 23.
Telephone system. W. O. Passmore. 1,688,651; Oct. 23.
Telephone system. E. B. Smith. 1,688,993; Oct. 23.
Telephone system, Automatic. T. F. Crocker. 1,688,689; Oct. 23.
Telephone system, Automatic. C. E. Lomax and N. H. Saunders. 1,688,588; Oct. 23.
Telephone system, Automatic. A. J. Ray. 1,688,656; Oct. 23.
Telephone system, Measured-service. R. W. Engsberg. 1,688,617; Oct. 23.
Terminal connecting device. N. D. Levin. 1,688,640; Oct. 23.
Testing the aptitude of keyboard operators, Apparatus for. H. B. McChesney. 1,688,935; Oct. 23.
Theme finder. W. O. Miessner. 1,688,824; Oct. 23.
Thermometer, Bath. J. D. Sartakoff. 1,688,832; Oct. 23.
Thrashing machine. F. Schlayer. 1,688,662; Oct. 23.
Threading machine. C. Schramm. 1,688,752; Oct. 23.
Threads, Hobbing. E. Wildhaber. 1,688,768; Oct. 23.
Tile for water-tube boilers, Wall or baffle. C. W. Webmeyer. 1,688,603; Oct. 23.
Tiller for outboard motors. H. L. Johnson. 1,689,032; Oct. 23.
Tire. A. Alexander. 1,688,322; Oct. 23.
Tire-chain support. J. P. Hotz. 1,688,712; Oct. 23.
Tire construction. W. A. Taylor. 1,688,671; Oct. 23.
Tire support, Extra-. C. P. Tompkins. 1,689,063; Oct. 23.
Tires, Manufacturing. H. M. Lambert. 1,688,869; Oct. 23.
Tires, Strip for cord. F. S. Dickinson. 1,689,168; Oct. 23.
Toasting or cooking apparatus. F. H. Chandler. Re17,114; Oct. 23.
Tobacco handling and stemming machine and method. C. W. Gooch, jr., and A. L. Ewers. 1,689,171; Oct. 23.
Tone-control device. A. G. Weeks. 1,688,952; Oct. 23.
Tool, Centering. J. Leck. 1,688,819; Oct. 23.
Tool, Clinching. B. F. Giles. 1,689,021; Oct. 23.
Tool, Cutting. H. B. Rouse. 1,688,660; Oct. 23.
Tool for repairing starter mechanisms. W. D. Hughes. 1,689,074; Oct. 23.
Tool, Indenting. W. F. Harvey. 1,689,073; Oct. 23.
Tool, Piston-ring. J. Matechik. 1,688,467; Oct. 23.
Toothbrush. N. Glassman. 1,688,581; Oct. 23.
Top for automobile bodies. L. I. Heintz. 1,688,867; Oct. 23.
Torpedo, Wakeless. E. A. Sperry. 1,688,761; Oct. 23.
Towers, Adjustable leg extension for. I. W. Marshall. 1,688,340; Oct. 23.
Toy clock. S. C. Vincent. 1,688,766; Oct. 23.
Toy, Figure wheeled. J. L. Henry. 1,688,927; Oct. 23.
Toy game color chart. A. A. Scheuer. 1,689,158; Oct. 23.
Toy, Mechanical figure. L. D. Crossett. 1,688,575; Oct. 23.
Toy motion-picture device. L. A. King. 1,688,972; Oct. 23.
Toy, Scooter figure wheeled. J. L. Henry. 1,688,926; Oct. 23.
Toy, Wheeled wind. M. Cohn. 1,689,010; Oct. 23.
Track clearer for vehicles. J. Van de Putte. 1,688,476; Oct. 23.
Traffic signal. J. Rank. 1,688,398; Oct. 23.
Transformer. W. E. Paul. 1,688,748; Oct. 23.
Transmission system for automotive vehicles. H. C. Drake and E. A. Sperry. 1,688,691; Oct. 23.
Trap nest. H. L. Bolinger. 1,688,779; Oct. 23.
Tray or similar article, Sandwich. R. E. McEldowney. Des. 76,698; Oct. 23.
Treating artificial fibers. E. K. Gladding. 1,688,702; Oct. 23.
Treating cotton. A. Cobb. 1,688,524; Oct. 23.
Treating earthy minerals. R. W. Hyde. 1,688,422; Oct. 23.
Treating liquids, Apparatus for. J. Astrom. 1,688,915; Oct. 23.
Treating molasses. F. Ransohoff. 1,688,831; Oct. 23.
Treating sucker rods, Heat. J. L. Gray. 1,688,705; Oct. 23.
Treatment of seed. A. Klages. 1,688,720; Oct. 23.
Trimmer for meat blocks, Surface. W. R. Smout. 1,688,439; Oct. 23.
Trimming, Narrow woven. C. S. Wackerman. Des. 76,725; Oct. 23.
Truck, Hand. E. Ruffner. 1,689,156; Oct. 23.
Truck, Six-wheel. C. B. Harbison. 1,689,025; Oct. 23.
Trunk or similar article, Corner piece for a. E. Zavitovsky and C. J. Lins. Des. 76,727–8; Oct. 23.
Tube: *See*—
Neon tube. Vacuum tube.
Tumbler, Drying-room. E. Davis. 1,688,919; Oct. 23.
Turbine, Hydraulic. L. F. Moody. 1,688,736; Oct. 23.
Turbine, Multistage disk-wheel. F. Lösel. 1,688,933; Oct. 23.
Turbines, Method of and apparatus for increasing the vacuum of. A. Delas. 1,688,413; Oct. 23.
Turning machine, Quartering and crank-pin-. L. C. Cole. 1,688,788; Oct. 23.
Turnstile-control mechanism. R. J. Parsons. 1,688,746; Oct. 23.
Turntable for motor-driven vehicles. H. Siegrist. 1,689,160; Oct. 23.
Turntable lift. P. J. Lunati. 1,689,144–5; Oct. 23.
Typewriter, Automatic. R. G. Thompson. 1,688,364; Oct. 23.
Typewriters, Motor-stopping device for telegraph. E. W. Hewitt, F. J. Maus, and G. Marx. 1,688,711; Oct. 23.
Typewriters, Power-actuating mechanism for. O. A. Hokanson. 1,688,334; Oct. 23.
Typewriting machine. G. A. Seib. 1,689,058; Oct. 23.
Typewriting machine. J. A. B. Smith. 1,688,760; Oct. 23.
Typewriting machine. H. H. Steele. 1,688,359; Oct. 23.
Typewriting machine. J. Waldheim. 1,688,367; Oct. 23.
Undergarment. C. N. Winship. 1,688,910; Oct. 23.
Upholstery, Webbing support for. K. Balikjian. 1,689,100; Oct. 23.
Vacuum cleaner. A. C. Teves. 1,689,089; Oct. 23.
Vacuum cleaner and polisher, Combined. J. W. Gernandt. 1,688,580; Oct. 23.
Vacuum tube. E. W. Engle. 1,688,489; Oct. 23.
Vacuum-tube-evacuating apparatus. A. A. Grothe. 1,688,329; Oct. 23.
Vacuum tube for the production of soft X rays. K. W. Daumann. 1,688,854; Oct. 23.
Valve. O. F. Russell. Re17,115; Oct. 23.
Valve-bleeding device, Brake-. J. Maher. 1,689,077; Oct. 23.
Valve, Float. E. J. Palmer. 1,688,876; Oct. 23.
Valve for flush tanks. E. J. Palmer. 1,688,877; Oct. 23.
Valve for rock drills. G. W. Hulshizer. 1,688,633; Oct. 23.
Valve, Graduated. L. Lanza. 1,688,390; Oct. 23.
Valve mechanism, Waste-. H. W. Kuehl. 1,689,034; Oct. 23.
Valve, Quick-opening gate. R. G. Carlson. 1,688,686; Oct. 23.
Valve structure. C. F. Wray. 1,689,095; Oct. 23.
Valves, Making. R. Jardine. 1,688,423; Oct. 23.
Vaporizer, Exhaust-heated oil. G. R. Welch. 1,688,604; Oct. 23.
Vaporizers, Supporting means for. C. C. Spreen. 1,688,897; Oct. 23.
Vehicle brake. F. W. Slack. 1,688,358; Oct. 23.
Vending machine. G. Marsden. 1,689,039; Oct. 23.
Vending machine. L. D. Smith. 1,688,402; Oct. 23.
Vending machine. E. G. Wessman. 1,688,443; Oct. 23.
Vending machine, Periodical-. G. H. Matchett. 1,688,821; Oct. 23.
Vibrator. G. B. Pickop. 1,689,154; Oct. 23.
Voting-machine counter reader. H. B. Swartz. 1,689,087; Oct. 23.
Vulcanizer head. H. L. Williams. 1,688,570; Oct. 23.
Wall, Multiplate vertical. S. W. Miller. 1,688,980; Oct. 23.
Wall structure and building the same. C. H. Chown. 1,688,523; Oct. 23.
Wall-veneering material. W. A. Stoehr. 1,688,405; Oct. 23.
Warm-air furnace. J. P. Kolla. 1,688,974; Oct. 23.
Washing and sterilizing apparatus, Bottle. O. Larsen. 1,688,501; Oct. 23.
Washing machine. C. Metrewitz. 1,688,732; Oct. 23.
Washing machine. D. G. Smellie. 1,688,665; Oct. 23.
Washing machine, Clothes-. A. Rankin. 1,688,555; Oct. 23.
Washing machine, Continuous. J. W. Shaw. 1,688,508; Oct. 23.
Water-closet. O. Lundberg and J. M. Bernstrom. 1,688,977; Oct. 23.
Water-cooler connection, Universal. C. H. Leonard. Oct. 23.

Water softening. P. E. Leiss. 1,689,036; Oct. 23.
Water-softening device. J. J. Tomkinson. 1,688,366, Oct. 23.
Wave signaling system, Duplex. H. M. Lewis. 1,688,872; Oct. 23.
Waving hair, Apparatus for. C. S. Ackley. 1,689,004; Oct. 23.
Weather stop. J. R. Dupen. 1,688,577; Oct. 23.
Weather strip. C. M. Eveleth. 1,688,458; Oct. 23.
Weed and vine destroyer. O. Kelm. 1,688,463; Oct. 23.
Weeder. O. R. Saunders. 1,689,086; Oct. 23.
Weighing mechanism or scale. G. Hutchinson. 1,688,634; Oct. 23.
Welder, Electric chain. J. Senft. 1,688,883; Oct. 23.
Welding. G. N. Steigerwald. 1,688,360; Oct. 23.
Well mechanism. G. C. Bushong. 1,688,483; Oct. 23.
Wheel remover. B. D. Jerabek. 1,688,716; Oct. 23.
Whistle. E. R. Petrie. 1,688,348–9; Oct. 23.
Winding of yarns upon beams. J. and J. Brandwood. Oct. 23.
Windlass construction. W. W. Erlewine. 1,689,016; Oct. 23.
Window construction. H. B. Stein. 1,688,836; Oct. 23.
Window for doors of motor cars and the like. G. Haarnagell. 1,689,132; Oct. 23.
Window-glass channel. E. W. M. Bailey. 1,688,371; Oct. 23.
Window-glass clip. F. A. Yeager. 1,688,953; Oct. 23.
Window, Projected. K. Kato. 1,688,545; Oct. 23.
Window screen. H. A. Hendren. 1,688,494; Oct. 23.
Window-washing device. P. H. Sukert. 1,689,163; Oct. 23.
Windshield attachment. E. Muntwyler. 1,688,344; Oct. 23.
Windshield cleaner. P. J. Halloran. 1,688,386; Oct. 23.
Windshield regulator. K. Fellcke. 1,688,578; Oct. 23.
Windshield-wing mounting. W. La Hodny. 1,689,035; Oct. 23.
Wire, Apparatus for processing. M. M. Austin and C. W. Balke. 1,688,481; Oct. 23.
Wire, Method of and apparatus for making curled. J. A. Wolle. 1,689,093; Oct. 23.
Woodworking machine with tubular cutter. N. L. Gulliford. 1,688,385; Oct. 23.
Workbench and tool holder, Combination. G. Eger. 1,688,533; Oct. 23.
Wrench: *See*—
Pipe wrench.
Radiator wrench.
Wrench. G. Grimsrud. 1,689,072; Oct. 23.
Wringer. W. W. Brown. 1,688,684; Oct. 23.
Wringers, Automatic release for. W. W. Brown. 1,688,408; Oct. 23.
Yarn, Apparatus for the manufacture of. J. A. Heany. 1,688,620; Oct. 23.
Zinc dust, Method and apparatus for producing. F. P. Lannon, jr. 1,688,426; Oct. 23.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 23, 1928.

NOTE.—First number—class, second number—subclass, third number—patent number.

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18: 1,688,436
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25: R. 17,107
26: 1,689,004
38: 1,688,679
1,688,796
40: 1,688,680
220— 1: 1,688,868
5: 1,689,068
36: 1,689,057
55: 1,688,465
85: 1,688,737
221— 1: 1,688,703
1,688,704
47.3: 1,689,186
47.4: 1,688,564
1,688,571
48: 1,688,372
60: 1,688,512
64: 1,688,688
107: 1,689,096
222— 4: 1,688,422
223— 62: 1,689,126
224— 5: 1,689,051
29: 1,689,063
226— 56: 1,688,499
105: 1,688,773
226— 127: 1,688,066
229— 6: 1,689,069
230— 4: 1,688,990
134: 1,688,345
141: 1,688,342
190: 1,688,890
192: 1,689,178
1,689,179
202: 1,688,611
203: 1,688,589
211: 1,688,903
221: 1,688,889
244: 1,689,112
233— 46: 1,688,838
235— 2: 1,688,939
1,688,940
30: 1,688,383
51: 1,689,087
59: 1,688,805
61: 1,688,539
130: 1,688,945
238— 195: 1,688,623
243: 1,689,109
299: 1,688,801
330: 1,689,003
240— 7.1: 1,688,497
10.5: 1,688,373
1,688,560
41: 1,688,596
1,688,783
44: 1,688,544
1,688,619
48.4: 1,688,857
60: 1,689,090
61: 1,689,167
133: 1,689,019
241— 9: 1,688,431
242— 75: 1,688,444
111: 1,688,582
117: 1,689,016
146: 1,688,923
244— 3: 1,689,184
18: 1,688,769
246— 130: 1,688,912
210: 1,688,986
293: 1,689,165
247— 19: 1,688,518
25: 1,688,853
248— 38: 1,689,050
65: 1,688,765
250— 6: 1,688,872
9: 1,689,026
16: 1,688,622
1,688,943
20: 1,688,554
1,688,820
1,688,842
27.5: 1,688,489
1,688,991
33: 1,688,545
1,688,875
250— 34: 1,688,329
1,688,382
1,688,675
1,688,854
36: 1,688,713
251— 8: R.17,115
18: 1,688,686
159: 1,689,005
252— 5: 1,689,153
9: 1,688,975
253— 122: 1,688,736
139: 1,688,933
148: 1,688,809
254— 6: 1,688,862
166: 1,688,984
186: 1,688,828
187: 1,688,599
255— 1: 1,688,994
47: 1,688,774
257— 6: 1,688,700
25: 1,688,529
130: 1,688,929
166: 1,688,618
259— 72: 1,688,665
96: 1,689,103
144: 1,689,154
260— 11: 1,688,964
15: 1,688,351
39: 1,688,469
125: 1,688,707
130.5: 1,689,014
142: 1,688,837
156: 1,688,726
1,688,731
261— 13: 1,688,604
18: 1,688,947
114: 1,688,515
262— 9: R.17,109
33: 1,689,139
263— 2: 1,688,710
6: 1,688,745
8: 1,688,814
17: 1,688,304
19: 1,689,042
28: 1,688,303
48: 1,688,999
265— 36: 1,688,634
45: 1,688,811
266— 3: 1,688,481
19: 1,688,426
42: 1,688,327
267— 2: 1,689,023
8: 1,688,592
9: 1,688,649
20: 1,689,038
28: 1,688,749
53: 1,688,683
54: 1,688,682
1,688,841
73: 1,688,962
268— 24: 1,688,337
270— 54: 1,688,970
271— 45: 1,688,459
272— 51: 1,689,138
273— 68: 1,688,911
80: 1,688,473
123: 1,688,942
138: 1,688,590
161: 1,689,158
277— 20: 1,688,391
281— 21: 1,688,667
25: 1,688,514
286— 11: 1,688,884
287— 52: 1,688,708
119: 1,689,173
290— 10: 1,688,691
292— 40: 1,689,111
106: 1,688,543
109: 1,688,472
175: 1,689,101
303: 1,689,150
320: 1,688,738
1,688,739
332: 1,688,527
336: 1,688,526
340: 1,688,626
293— 49: 1,688,476
55: 1,688,432
1,689,076
1,689,147
1,689,148
1,689,149
294— 19: 1,688,362
31: 1,688,404
44: 1,688,729
78: 1,689,170
295— 7: 1,689,052
296— 44: 1,688,719
1,688,937
44.5: 1,688,371
48: 1,689,132
84: 1,688,578
1,689,035
137: 1,688,867
139: 1,688,681
299— 36: 1,688,614
120: 1,688,585
301— 39: 1,688,989
303— 80: 1,689,077
306— 6: 1,689,109
308— 160: 1,688,519
163: 1,688,825
170: 1,688,941
312— 36: 1,689,054
42: 1,688,609
44: 1,688,510
53: 1,688,821
64: 1,689,039
119: 1,689,134
165: 1,688,834

Oct. 30, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbate & Franks, Inc., New York, N. Y. Dresses. 248,824; Oct. 30; Serial No. 268,764; published Aug. 14, 1928. Class 39.

Abbey-Waas Company, New York, N. Y. Finger rings, brooches, scarf pins, etc. 248,800; Oct. 30; Serial No. 267,624; published Aug. 14, 1928. Class 28.

Abel, Elinor T., doing business as The Elinor Shop, Washington, D. C. Hosiery. 248,692; Oct. 30; Serial No. 266,343; published July 24, 1928. Class 39.

Abendroth Brothers, Port Chester, N. Y. Oil, gas, coal, and coke fuel heaters. 248,749; Oct. 30; Serial No. 268,261; published Aug. 21, 1928. Class 34.

Abood, Assad, doing business as Abood Knitting Mills, New York, N. Y. Men's knitted neckties, mufflers, and ladies' scarfs. 248,724; Oct. 30; Serial No. 249,631; published July 26, 1927. Class 42.

Alpha Gamma Delta Fraternity, New York, N. Y. Fraternity badges, lapel buttons, breastpins, etc. 248,717; Oct. 30; Serial No. 258,615; published Aug. 14, 1928. Class 28.

Altman, B., & Co., New York, N. Y. Hosiery. 248,747; Oct. 30; Serial No. 268,262; published Aug. 14, 1928. Class 39.

Aluminum Goods Manufacturing Co., Manitowoc, Wis. Aluminum ware. 248,681; Oct. 30; Serial No. 266,775; published Aug. 21, 1928. Class 13.

American Hosiery Company, New Britain, Conn. Knitted and woven goods. 248,791; Oct. 30; Serial No. 267,107; published July 24, 1928. Class 39.

American Stove Company, St. Louis, Mo. Gas-range covers. 248,887; Oct. 30. Class 34.

Amsterdam Shirt Company, Amsterdam, N. Y. Shirts. 248,890; Oct. 30. Class 39.

Anderson, C. J., & Co., Chicago, Ill. Electric controllers for motors, automatic starters and control devices for motors, etc. 248,662; Oct. 30; Serial No. 261,602; published Aug. 14, 1928. Class 21.

Armstrong Cork Company, Pittsburgh and Lancaster, Pa. Linoleum and felt-base floor coverings. 248,686; Oct. 30; Serial No. 266,508; published Aug. 14, 1928. Class 20

Astral Radio Corporation, Philadelphia, Pa. Tone arms for talking machines. 248,659; Oct. 30; Serial No. 262,014; published Aug. 14, 1928. Class 36.

Atlanta Belting Company, Atlanta, Ga. Leather belting. 248,755; Oct. 30; Serial No. 269,273; published Aug. 21, 1928. Class 35.

Automatic Signal Corporation, New Haven, Conn. Automatic electric traffic-control systems. 248,788; Oct. 30; Serial No. 267,222; published Aug. 14, 1928. Class 21.

Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Chemicals. 71,349; renewed Nov. 17, 1928.

Barton, Clara, Nurses' Apparel. (See Kleinberg, William.)

Bastian-Morley Co., also doing business as Gas and Electric Heater Co., La Porte, Ind. Electric water heaters. 248,676; Oct. 30; Serial No. 266,910; published Aug. 14, 1928. Class 21.

Batavia Garment Corporation, Batavia, N. Y. Play suits, children's wash suits, and overalls. 248,709; Oct. 30; Serial No. 265,773; published July 24, 1928. Class 39.

Baughman Stationery Co., The, Richmond, Va. Printing and writing papers. 72,532; renewed Feb. 2, 1929.

Beal-Burrow Dry Goods Co., Little Rock, Ark. Overalls, coats, pants, etc. 248,708; Oct. 30; Serial No. 265,774; published Aug. 14, 1928. Class 39.

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 248,742; Oct. 30; Serial No. 268,134; published Aug. 7, 1928. Class 39.

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 248,805; Oct. 30; Serial No. 267,481; published July 31, 1928. Class 39.

Belding Heminway Company, New York, N. Y. Hosiery. 248,877; Oct. 30. Class 39.

Berkowitz, Sam, doing business as Royal Blue Hosiery Co., New York, N. Y. Hosiery. 248,697; Oct. 30; Serial No. 266,235; published Aug. 7, 1928. Class 39.

Berman, Meyer, doing business as M. Berman & Son, New York, N. Y. Trousers. 248,700; Oct. 30; Serial No. 265,941; published July 24, 1928. Class 39.

Billings & Spencer Company, The, Hartford, Conn. Hand tools. 248,759; Oct. 30; Serial No. 268,841; published Aug. 21, 1928. Class 28.

Bodtt Mills, Lowell, Mass. Cotton cloth. 248,668; Oct. 30; Serial No. 263,636; published Aug. 7, 1928. Class 42.

Boulin, Camille H., doing business as Canson & Montgolfier, New York, N. Y. Paper. 248,734; Oct. 30; Serial No. 175,644; published Aug. 9, 1927. Class 37.

Brady Manufacturing Co., Detroit, Mich. Portable electric lights. 248,726; Oct. 30; Serial No. 248,874; published Aug. 14, 1928. Class 21.

Brassler Company, The, Newark, N. J. Bracelets, brooches, scarf pins, etc. 248,845; Oct. 30; Serial No. 260,487; published Aug. 14, 1928. Class 28.

Brooks, John F., Co., Needham and Needham Heights, Mass., assignor to A. G. Relyea, New York, N. Y. Knit goods. 70,463; renewed Sept. 1, 1928.

Brown Bros. Piano Co., Boston, Mass. Pianos. 248,880; Oct. 30. Class 36.

Brown, Martha, Omaha, Nebr. Aprons. 248,729; Oct. 30; Serial No. 247,774; published Aug. 7, 1928. Class 39.

Browning Brothers Company, Ogden, Utah. Automatic shotguns. 248,671; Oct. 30; Serial No. 264,867; published Aug. 7, 1928. Class 9.

Buffalo Meter Company, Buffalo, N. Y. Air-release valves. 248,876; Oct. 30. Class 13.

Bulova Watch Company, Inc., New York, N. Y. Watches and watch movements. 248,827; Oct. 30; Serial No. 268,419; published Aug. 21, 1928. Class 27.

California Packing Corporation. (See Griffin & Skelley Co., assignor.)

Canson & Montgolfier. (See Boulin, Camille H.)

Capitol Silk Corporation, New York, N. Y. Silks in the piece. 248,866; Oct. 30; Serial No. 268,846; published Aug. 7, 1928. Class 42.

Carson Pirie Scott & Co., Chicago, Ill. Hosiery. 248,778; Oct. 30; Serial No. 267,405; published July 24, 1928. Class 39.

Carson Pirie Scott & Co., Chicago, Ill. Men's collars. 248,796; Oct. 30; Serial No. 267,698; published Aug. 7, 1928. Class 39.

Carson Pirie Scott & Co., Chicago, Ill. Men's collars. 248,797; Oct. 30; Serial No. 267,694; published July 31, 1928. Class 39.

Carson Pirie Scott & Co., Chicago, Ill. Boys' outer suits and overcoats. 248,802; Oct. 30; Serial No. 267,538; published Aug. 7, 1928. Class 39.

Carson Pirie Scott & Co., Chicago, Ill. Hosiery. 248,836; Oct. 30; Serial No. 268,026; published Aug. 7, 1928. Class 39.

Carter & Churchill Co., Lebanon, N. H. Men's, boys', women's, and girls' coats. 248,664; Oct. 30; Serial No. 264,067; published July 10, 1928. Class 39.

Carter Dry Goods Co., Louisville, Ky. Hosiery. 248,751; Oct. 30; Serial No. 268,211; published Aug. 14, 1928. Class 39.

Celanese Corporation of America, New York, N. Y. Dressing robes. 248,813; Oct. 30; Serial No. 268,676; published Aug. 14, 1928. Class 39.

Certified Lubricants Company, The. (See Millkey, Joachim, assignor.)

Chase-Shawmut Company, The, Newburyport, Mass. Fuses, fuse wire, fuse blocks, etc. 248,801; Oct. 30; Serial No. 267,539; published Aug. 14, 1928. Class 21.

Chatham Manufacturing Company, Winston-Salem, N. C. Woolen blankets. 248,801; Oct. 30; Serial No. 269,047; published Aug. 14, 1928. Class 42.

Chemical Foundation, Incorporated, The. (See Badische Anilin & Soda Fabrik, assignor.)

Chemical Foundation, Incorporated, The. (See Daimler-Motoren-Gesellschaft, assignor.)

Chemical Foundation, Incorporated, The. (See Gehe & Co. Aktiengesellschaft, assignor.)

Chemical Foundation, Incorporated, The. (See Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, assignor.)

Chemical Foundation, Incorporated, The. (See Merck, E., assignor.)

Cheney Brothers, South Manchester, Conn. Textile and pile fabrics in the piece. 248,832; Oct. 30; Serial No. No. 268,250; published July 31, 1928. Class 42.

Cohen, Weenen & Co., Limited, London, England. Smoking tobacco. 248,771; Oct. 30; Serial No. 266,975; published Aug. 21, 1928. Class 17.

Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, finger rings, etc. 248,839; Oct. 30; Serial No. 267,936; published Aug. 14, 1928. Class 28.

Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Tobacco containers and combination containers for tobacco, cigars, etc. 248,823; Oct. 30; Serial No. 268,774; published Aug. 7, 1928. Class 8.

Concealo Fixture Company, Oakland, Calif. Ironing boards and clothes-dryer cabinets and clothes-dryer racks. 248,750; Oct. 30; Serial No. 268,214; published Aug. 21, 1928. Class 24.

Congoleum-Nairn, Inc., Kearney, N. J. Linoleum and cork carpet. 248,860; Oct. 30; Serial No. 269,091; published Aug. 14, 1928. Class 20.

Continental Optical Corporation, Indianapolis, Ind. Ophthalmic lenses. 248,781; Oct. 30; Serial No. 268,588; published Aug. 21, 1928. Class 26.

Continental Undergarment Company, New York and Brooklyn, N. Y. Underwear. 248,868; Oct. 30; Serial No. 268,779; published Aug. 14, 1928. Class 39.

Co-Operative Grange League Federation Exchange, Inc., Syracuse, N. Y. Fertilizers. 248,864; Oct. 30; Serial No. 268,970; published Aug. 21, 1928. Class 10.

Coudurier, Fructus & Deschor, Lyon, France. Silk piece goods. 248,654; Oct. 30; Serial No. 263,587; published Aug. 14, 1928. Class 42.

Crescent Insulated Wire & Cable Co. Inc., Trenton, N. J. Electric cord. 248,787; Oct. 30; Serial No. 267,244; published Aug. 14, 1928. Class 21.

Cubbison, Harry G., doing business as Cubbison Cracker Co., Los Angeles, Calif. Toast. 248,871; Oct. 30; Serial No. 262,065; published June 5, 1928. Class 46.

Cuthrell Company, Incorporated, The, Norfolk, Va. Bicycles. 248,608; Oct. 30; Serial No. 266,192; published Aug. 21, 1928. Class 19.

Cutler-Hammer Mfg. Co., The, Milwaukee, Wis. Electric motor controllers. 248,794; Oct. 30; Serial No. 266,917; published Aug. 14, 1928. Class 21.

Dalgger Corporation, Chicago, Ill. Tray for ice-cream cones. 248,795; Oct. 30; Serial No. 267,758; published Aug. 21, 1928. Class 2.

Daimler-Motoren-Gesellschft, Untertürkheim, near Stuttgart, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Surgical goods and medicine chests. 71,330; renewed Nov. 17, 1928.

Dayton Hosiery Mills, Dayton, Tenn. Knitted hos'ery. 248,826; Oct. 30; Serial No. 268,085; published Aug. 14, 1928. Class 39.

De la Montanya, P., doing business as Mount Rouge Company, San Francisco Calif. Beverages. 248,757; Oct. 30; Serial No. 269,099; published Aug. 21, 1928. Class 45.

Deutsche Linoleum-Werke A.-G., Bietigheim, Germany. Linoleum and products resembling linoleum. 248,851; Oct. 30; Serial No. 269,186; published Aug. 14, 1928. Class 20.

Diamond Electric Corporation, Newark, N. J. Electrical equipment. 248,703; Oct. 30; Serial No. 265,874; published Aug. 14, 1928. Class 21.

Divco-Detroit Corporation, Detroit, Mich. Motor trucks and constructive parts thereof. 248,683; Oct. 30; Serial No. 266,718; published Aug. 21, 1928. Class 19.

Dolan & Bullock, Providence, R. I. Collar pins, belt chains, etc. 248,884; Oct. 30. Class 28.

Dupian Silk Corporation, New York, N. Y. Silk and rayon piece goods and mixtures thereof. 248,859; Oct. 30; Serial No. 269,103; published Aug. 14, 1928. Class 42.

Du Pont, E. I., de Nemours Powder Company, as assignee of Laflin & Rand Powder Company, New York, N. Y., assignor, by mesne assignments, to Hercules Powder Company, Wilmington, Del. Smokeless powder. 72,658; renewed Feb. 9, 1929.

Du Pont Rayon Company, Buffalo, N. Y. Cellulose-acetate yarns, threads, and filaments. 248,833-4; Oct. 30 Serial Nos. 268,276-7; published Aug. 7, 1928. Class 43.

"Dynamo" Tulle Importing Co., Inc. (See Perret, Gros & Milllon, assignor.)

Elder Mfg. Co., St. Louis, Mo. Shirts and boys' blouses. 248,825; Oct. 30; Serial No. 268,430; published Aug. 14, 1928. Class 39.

Electrolux Servel Corporation, New York, N. Y. Refrigerators, refrigerator parts, etc. 248,774; Oct. 30; Serial No. 265,895; published Aug. 21, 1928. Class 31.

Elinor Shop, The. (See Abel, Elinor T.)

Eshelman, John W., & Sons, Lancaster, Pa. Corn meal and wheat flour. 248,851; Oct. 30; Serial No. 259,541; published Aug. 14, 1928. Class 46.

Faber, Eberhard, New York, N. Y., assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Steel pulisher of abrasive rubber. 12,746; renewed Feb. 16, 1929.

Feingold, Alexander S., doing business as A. S. Feingold & Co., Philadelphia, Pa. Men's shirts, pajamas, and lounging robes. 248,661; Oct. 30; Serial No. 261,706; published Aug. 7, 1928. Class 39.

"Fish an'-See" Co., The. (See Hicks, Thomas W.)

Fisk Rubber Company, The, Chicopee Falls, Mass., and Cudahy, Wis. Pneumatic tires and tubes. 248,886; Oct. 30. Class 35.

Fownes Brothers and Company, London, England, assignor to Fownes Brothers & Co., Incorporated, New York, N. Y. Glove and dress fasteners and buttons. 70,324; renewed Aug. 25, 1928.

Friedman & Friedman, Brooklyn, N. Y. Sleeping garments. 248,704; Oct. 30; Serial No. 265,871; published July 24, 1928. Class 39.

Gas and Electric Heater Co. (See Bastian-Morley Co.)

Gehe & Co. Aktiengesellschaft, Dresden, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Medicines. 71,638; renewed Dec. 8, 1928.

General-Direktion der Österr. Tabakregie, Vienna, Austria. Chewing, smoking, snuffing tobaccos, cigars, and cigarettes. 248,735; Oct. 30; Serial No. 265,631; published Aug. 21, 1928. Class 17.

General Fibre Box Company, West Springfield, Mass. Corrugated-fibre boxes. 248,815; Oct. 30; Serial No. 268,599; published Aug. 21, 1928. Class 2.

Georgia Fertilizer Company, Valdosta, Ga. Commercial fertilizer. 248,883; Oct. 30, 1928. Class 10.

Gimbel Brothers, Inc., New York, N. Y.; Philadelphia, Pa.; Milwaukee, Wis.; and Pittsburgh, Pa. Dresses. 248,785; Oct. 30; Serial No. 267,302; published July 24, 1928. Class 39.

Glass, Henry, & Co., New York, N. Y. Cotton piece goods, etc. 248,811; Oct. 30; Serial No. 268,692; published Aug. 7, 1928. Class 42.

Graff Company, Inc., The, New York, N. Y. Men's suits, topcoats and overcoats. 248,784; Oct. 30; Serial No. 267,304; published July 24, 1928. Class 39.

Grande Maison de Blanc, Inc., New York, N. Y. Cotton sheets and pillowcases. 248,746; Oct. 30; Serial No. 268,092; published July 31, 1928. Class 42.

Grant Storage Battery Co., doing business as Grant Automotive Specialty Co., Minneapolis, Minn. Soap. 248,881; Oct. 30. Class 4.

Grant, W. T., Company, doing business as Solar Mfg. Co., Lynn, Mass., and New York, N. Y. Hand drills bench grinders, etc. 248,758; Oct. 30; Serial No. 269,019; published Aug. 21, 1928. Class 23.

Graves, Luther J., doing business as Graves Laboratories, Sturgis, Mich. Lotion. 248,882; Oct. 30. Class 6.

Great Eastern Manufacturing Company, The, Philadelphia, Pa. Overalls. 248,666; Oct. 30; Serial No. 263,942; published Aug. 14, 1928. Class 39.

Great Lakes Dredge & Dock Company, Chicago, Ill. Pile drivers, locomotive cranes, etc. 248,738; Oct. 30; Serial No. 252,382; published Aug. 21, 1928. Class 23.

Gretsch, Fred., Mfg. Co., The, New York, N. Y. Ocarinas. 248,799; Oct. 30; Serial No. 267,651; published Aug. 14, 1928. Class 36.

Griffin & Skelley Co., assignor to California Packing Corporation, San Francisco, Calif. Hermetically-sealed fruits and vegetables. 72,023; renewed Dec. 29, 1928.

Grosser Knitting Machine Co., The, New York, N. Y. Knitting machines. 248,889; Oct. 30. Class 23.

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods of silk, cotton, and wool. 248,670; Oct. 30; Serial No. 264,300; published Aug. 14, 1928. Class 42.

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 248,812; Oct. 30; Serial No. 268,691; published Aug. 7, 1928. Class 42.

Hammarlund Manufacturing Company, Inc., The, New York, N. Y. Electric condensers. 248,736; Oct. 30; Serial No. 258,634; published Aug. 14, 1928. Class 21.

Hance Brothers & White, Inc., Philadelphia, Pa. Glycerine. 248,894; Oct. 30. Class 6.

Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, Hanover-Linmer, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington Del. and New York N. Y. Rubber goods. 71,337; renewed Nov. 17, 1928.

Hardy, John G., Limited, London, England. Cloths and Stuffs of wool, worsted, etc. 246,672; Oct. 30; Serial No. 264,756; published Aug. 7, 1928. Class 42.

Heald Machine Company, The, Worcester, Mass. Precision grinding machines. 248,760; Oct. 30; Serial No. 268,604; published Aug. 21, 1928. Class 23.

Hedman Manufacturing Company, Chicago, Ill. Change-making machines. 248,730-40; Oct. 30; Serial Nos. 241,226-7; published Aug. 21, 1928; Class 26.

Henry & Allen, Auburn, N. Y. Rope, cord, and twine. 248,814; Oct. 30; Serial No. 268,607; published Aug. 14, 1928. Class 7.

Hercules Powder Company. (See du Pont, E. I., de Nemours Powder Company, assignor.)

Hercules Products Company, St. Joseph, Mich. Automobile rim tools. 248,767-8; Oct. 30; Serial Nos. 267,196-7; published Aug. 21, 1928. Class 23.

Hercules Products, Inc., Evansville, Ind. Automobile motor-truck and motor-bus bodies, cabs, seats, etc. 248,829; Oct. 30; Serial No. 268,373; published Aug. 21, 1928. Class 19.

Hicks, Thomas W., doing business as The "Fish-an'-See" Co., South Minneapolis, Minn. Underwater periscopes. 248,763; Oct. 30; Serial No. 268,496; published Aug. 21, 1928. Class 26.

Hillside Cotton Mills, Lagrange, Ga., and Roanoke, Ala. Trousers and knickers. 248,722; Oct. 30; Serial No. 251,216; published Aug. 14, 1928. Class 39.

Hinde, Charles, doing business as Sectionier Company, Wilmington, Calif. Sectional trunks. 248,682; Oct. 30; Serial No. 266,773; published Aug. 14, 1928. Class 3.

Hope Knitting Co., Cohoes, N. Y. Men's and boys' knitted sport coats and sweaters, etc. 248,691; Oct. 30; Serial No. 266,426; published July 24, 1928. Class 39.

Holden-Leonard Company, New York, N. Y. Textile fabrics. 248,748; Oct. 30; Serial No. 268,226; published July 31, 1928. Class 42.

Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Children's dresses. 248,821; Oct. 30; Serial No. 268,445; published Aug. 14, 1928. Class 39.

Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Cotton piece goods. 248,822; Oct. 30; Serial No. 268,444; published July 31, 1928. Class 42.

Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Wearing apparel. 248,848-9; Oct. 30; Serial Nos. 259,912-13; published Aug. 7, 1928. Class 39.

Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Wearing apparel. 248,850; Oct. 30; Serial No. 259,909; published Aug. 7, 1928. Class 39.

Hornstein-Newman Company, Galion, Ohio. Overcoats and topcoats, coats, etc. 248,835; Oct. 30; Serial No. 268,639; published Aug. 7, 1928. Class 39.

Hubbard, M. P., & Company, Inc., Baltimore and Curtis Bay, Md., and Norfolk, Va. Fertilizers. 248,675; Oct. 30; Serial No. 265,967; published June 26, 1928. Class 10.

Hurowitz & Erdrich, New York, N. Y. Ladies' cloaks. 248,728; Oct. 30; Serial No. 248,411; published July 24, 1928. Class 39.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main and Berlin, Germany. Photographic sensitized plates, films, etc. 248,773; Oct. 30; Serial No. 266,195; published Aug. 21, 1928. Class 26.

Imperial Trust for the Encouragement of Scientific and Industrial Research, The, London, England. Metal-working taps, surface plates, and leading screws. 248,741; Oct. 30; Serial No. 235,778; published Aug. 21, 1928. Class 23.

Indiana Truck Corporation, Marion, Ind. Motor trucks. 248,807; Oct. 30; Serial No. 268,788; published Aug. 21, 1928. Class 19.

International Shoe Co. (See Roberts, Johnson & Rand Shoe Company, assignor.)

Interwoven Stocking Company, New Brunswick, N. J. Socks or half hose. 248,657; Oct. 30; Serial No. 263,755; published July 24, 1928. Class 39.

Iron Fireman Manufacturing Company, Portland, Oreg. Automatic coal burners. 248,719; Oct. 30; Serial No. 258,128; published Aug. 21, 1928. Class 34.

Isabey Paris, Inc., Wilmington, Del., and New York, N. Y. Perfumes. 248,660; Oct. 30; Serial No. 266,428; published June 26, 1928. Class 6.

James Manufacturing Company, Fort Atkinson, Wis. Mangers for metal cow stalls, calf, bull, and hog pens, stock and storage tanks. 248,792; Oct. 30; Serial No. 267,050; published Aug. 21, 1928. Class 2.

Janesville Clothing Co., Janesville, Wis. Shirts. 248,879; Oct. 30. Class 39.

Johnson, James T., jr., doing business as Sel-En-Tex Industries, Scranton, Pa. Union suits, undershirts, and drawers. 248,780; Oct. 30; Serial No. 267,361; published July 24, 1928. Class 39.

Jones, Marion R., Framingham, Mass. Dresses. 248,745; Oct. 30; Serial No. 268,099; published Aug. 7, 1928. Class 39.

Kayser, Julius, & Co., New York, N. Y. Hosiery. 248,820; Oct. 30; Serial No. 268,447; published Aug. 14, 1928. Class 39.

Kleinberg, William, doing business as Clara Barton Nurses' Apparel, Rochester, N. Y. Paper gowns. 248,696; Oct. 30; Serial No. 266,825; published July 31, 1928. Class 39.

Klinkerfues Bros. Co., St. Paul, Minn. Men's overalls and jackets. 248,865; Oct. 30; Serial No. 268,870; published Aug. 14, 1928. Class 39.

Knowlton Danderine Co., The, Chicago, Ill., assignor to Sterling Products (Incorporated), Wheeling, W. Va. Liquid preparation for use as a scalp tonic. 71,981; renewed Dec. 22, 1928.

Kraft Cheese Company, Chicago, Ill. Cheese product. 248,716; Oct. 30; Serial No. 258,693; published Jan. 31, 1928. Class 46.

Kraft-Phenix Cheese Company. (See Phenix Cheese Co., assignor.)

Laflin & Rand Powder Company. (See du Pont, E. I., de Nemours Powder Company.)

Lane, Ruby, Inc., New York, N. Y. Curtains, table linens, etc. 248,798; Oct. 30; Serial No. 267,669; published Aug. 7, 1928. Class 42.

Lee, H. D., Mercantile Company, The, Kansas City, Mo. Overalls and one-piece work and play suits. 248,679; Oct. 30; Serial No. 266,865; published July 24, 1928. Class 39.

Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. 248,858; Oct. 30; Serial No. 269,120; published Aug. 14, 1928. Class 42.

Libby, McNeill & Libby, Chicago, Ill. Bouillon cubes, beef extract, canned beef, etc. 248,737; Oct. 30; Serial No. 254,854; published Aug. 7, 1928. Class 46.

Lieberitz, S., & Sons, Inc., New York, N. Y. Shirts. 248,775; Oct. 30; Serial No. 267,496; published July 31, 1928. Class 39.

Lieberitz, S., & Sons, Inc., New York, N. Y. Dress and negligee shirts. 248,804; Oct. 30; Serial No. 267,497; published July 31, 1928. Class 39.

Lipman, Saul R., & Bros. Inc., New York, N. Y. Work shirts and pajamas. 248,777; Oct. 30; Serial No. 267,430; published July 24, 1928. Class 39.

Lister & Co., Limited, Bradford, England. Carpets and rugs. 70,889; renewed Oct. 18, 1928.

Lite Ray Utilities Corporation, also doing business as Lite Rays Cooker Co., Plainfield, N. J. Electric cookers and bakers. 248,710; Oct. 30; Serial No. 265,668; published Aug. 14, 1928. Class 21.

Locke Insulator Corporation, Baltimore, Md. Insulator-supporting pins. 248,656; Oct. 30; Serial No. 263,274; published Aug. 14, 1928. Class 21.

Louisville Bedding Company, Inc., Louisville, Ky. Bed quilts. 248,888; Oct. 30. Class 42.

Lowe, Alfred J., Los Angeles, Calif. Coats and dresses. 248,783; Oct. 30; Serial No. 267,307; published July 24, 1928. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Dishwashing appliance. 248,762; Oct. 30; Serial No. 268,504; published Aug. 21, 1928. Class 23.

Maison Pierre Bardou-Job, Perpignan, France, assignor to Societe Job (Anciens Etablissements Bardou-Job et Pandhic), Perpignan and Toulouse, France. Cigarette papers. 73,124; renewed Mar. 16, 1929.

Manufacture Francaise de Tapis et Couvertures, Beauvais, France. Coverlets, tapestries, bed rugs, etc. 248,655; Oct. 30; Serial No. 263,327; published Aug. 7, 1928. Class 42.

Marlin Firearms Co., The, assignor to The Marlin Fire Arms Company, New Haven, Conn. Shotguns and rifles. 72,755; renewed Feb. 16, 1929.

Marshall Field & Company, Chicago, Ill. Silk hosiery. 248,838; Oct. 30; Serial No. 267,943; published Aug. 7, 1928. Class 39.

Martin Brothers Company, Minneapolis, Minn. One-piece outer garments. 248,831; Oct. 30; Serial No. 266,385; published Aug. 7, 1928. Class 39.

Marwell, Max, Brooklyn, N. Y. Day beds and cots. 248,765; Oct. 30; Serial No. 267,848; published Aug. 21, 1928. Class 32.

Maspero Frères, Limited, London, England, and Cairo, Egypt. Cigarettes, cigars, and tobacco. 71,303; renewed Nov. 17, 1928.

Maspero Frères, Limited, London, England, and Cairo, Egypt. Cigarettes, cigars, and tobacco. 71,493; renewed Nov. 24, 1928.

Massachusetts Knitting Mills, Boston, Mass. Hosiery. 248,837; Oct. 30; Serial No. 267,983; published Aug. 7, 1928. Class 39.

May Department Stores Company, New York, N. Y. Men's and boys' clothing. 248,669; Oct. 30; Serial No. 264,316; published June 19, 1928. Class 39.

May Department Stores Company, New York, N. Y. Boys' coats, vests, and trousers. 248,723; Oct. 30; Serial No. 252,560; published Oct. 18, 1927. Class 39.

Merck, E., Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Remedy for hog plague. 71,910; renewed Dec. 22, 1928.

Mestler, William R., doing business as The National Rule Co., Rochester, N. Y. Steel and rubber rulers. 248,892; Oct. 30. Class 26.

Millkey, Joachim, doing business as The Certified Lubricants Co., Cincinnati, Ohio, assignor to The Certified Lubricants Company. Oils and greases. 248,872; Oct. 30. Class 15.

Miller, I., & Sons, Inc., Long Island City, N. Y. Traveling bags, trunks, etc. 248,721; Oct. 30; Serial No. 257,690; published Aug. 14, 1928. Class 3.

Miller, Robert E., New York, N. Y. Metal wall rack for kitchen utensils. 248,830; Oct. 30; Serial No. 268,379; published Aug. 21, 1928. Class 13.

Milton Jewelry Company, Inc., New York, N. Y. Bracelets, brooches, earrings, etc. 248,841; Oct. 30; Serial No. 267,850; published Aug. 14, 1928. Class 28.

Mitchell, Allen R., & Son, Philadelphia, Pa. Woolen and worsted goods and combinations in the piece. 248,819; Oct. 30; Serial No. 268,467; published Aug. 14, 1928. Class 42.

Mitchell, Allen R., & Son, Philadelphia, Pa. Woolen and worsted goods and combinations thereof in the piece. 248,857; Oct. 30; Serial No. 269,132; published Aug. 14, 1928. Class 42.

Miville, Mrs. Edouard, née Emérentienne Smith, Victoriaville, Quebec, Canada. Garment patterns. 248,766; Oct. 30; Serial No. 267,267; published Aug. 21, 1928. Class 26.

Mount Rouge Company. (See De la Montanya, P.)

Mustad, O., & Son, Christiania, to O. Mustad & Son, Oslo, Norway. Hand sewing needles, toilet pins, and safety pins. 70,662; renewed Sept. 22, 1928.

Mustad, O., & Son, Christiania, to O. Mustad & Son, Oslo, Norway. Fishhooks. 70,704; renewed Sept. 29, 1928.

Nash Motors Company, The, Kenosha, Wis. Automobiles and structural parts thereof. 248,684; Oct. 30; Serial No. 266,680; published Aug. 21, 1928. Class 19.

Nash Motors Company, The, Kenosha, Wis. Automobiles and structural parts thereof. 248,688; Oct. 30; Serial No. 266,471; published Aug. 21, 1928. Class 19.

Nathan, Joseph, & Co., Limited, London, England. Milk food for infants and invalids. 71,816; renewed Dec. 15, 1928.

National Rule Co., The. (See Mestler, William R.)

Neuss Hesslein & Co. Inc., New York, N. Y. Cotton piece goods. 248,699; Oct. 30; Serial No. 266,039; published July 31, 1928. Class 42.

Norvell-Shapleigh Hardware Company, by change of name, to Shapleigh Hardware Company, St. Louis, Mo. Electric batteries. 70,913; renewed Oct. 13, 1928.

Oberman, D. M., Mfg. Co., Jefferson City, Mo. Overalls, overall jackets, etc. 248,707; Oct. 30; Serial No. 265,800; published July 24, 1928. Class 39.

Old Trusty Dog Food Company, Needham Heights, Mass. Dog food. 248,776; Oct. 30; Serial No. 267,448; published Aug. 14, 1928. Class 46.

Ostrow-Reiman Silk Corporation, New York, N. Y. Silk piece goods. 248,712; Oct. 30; Serial No. 265,288; published Aug. 14, 1928. Class 42.

P-K Manufacturing Company, Kansas City, Mo. Overalls, jackets, etc. 248,702; Oct. 30; Serial No. 265,923; published July 24, 1928. Class 39.

Pape, Thompson & Pape, Cincinnati, Ohio, assignor, by mesne assignments, to Sterling Products (Incorporated), Wheeling, W. Va. Medicinal preparations. 70,508; renewed Sept. 8, 1928.

Paul, Nellie M., Easton, Pa. Individual paper drinking cups. 248,847; Oct. 30; Serial No. 260,132; published Aug. 21, 1928. Class 2.

Pearce, Frank C., Company. (See Smith, Sylvanus, & Co. Inc., assignor.)

Pendleton Woolen Mills, Portland, Oreg. Men's and boys' clothing. 248,660; Oct. 30; Serial No. 261,834; published July 24, 1928. Class 39.

Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 248,808; Oct. 30; Serial No. 268,386; published Aug. 14, 1928. Class 42.

Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 248,843; Oct. 30; Serial No. 267,794; published Aug. 7, 1928. Class 42.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Sweaters, sweater coats, and hosiery. 248,786; Oct. 30; Serial No. 267,272; published Aug. 7, 1928. Class 39.

Pennsylvania Silk Hosiery Mills, Inc., Bangor, Pa. Hosiery. 248,733; Oct. 30; Serial No. 230,351; published Oct. 11, 1927. Class 39.

Perret, Gros & Million, Lyon, France, assignor, by mesne assignments, to The "Dynamo" Tulle Importing Co., Inc., New York, N. Y. Tulles, muslins, crapes, and silks. 72,821; renewed Feb. 23, 1929.

Pershall, C. W., & Sons, doing business as Tri-City Grocery Co. and Tri-City Packing Co., Granite City, Woodriver, Venice, and Edwardsville, Ill. Whole and ground spice, cornstarch, wheat flour, jellies, etc. 248,727; Oct. 30; Serial No. 248,718; published Aug. 30, 1927. Class 46.

Phenix Cheese Co., New York, N. Y., assignor, by mesne assignments, to Kraft-Phenix Cheese Company, Chicago, Ill. Imported Camembert Cheese. 72,669; renewed Feb. 9, 1929.

Phillips & Buttorff Mfg. Co., Nashville, Tenn. Coal or wood burning household heater. 248,779; Oct. 30; Serial No. 267,385; published Aug. 21, 1928. Class 34.

Pi Beta Phi Settlement School of the Pi Beta Phi Fraternity, Gatlinburg, Tenn. Wooden furniture. 248,756; Oct. 30; Serial No. 269,144; published Aug. 21, 1928. Class 32.

Pi Beta Phi Settlement School of the Pi Beta Phi Fraternity, Gatlinburg, Tenn. Textile goods and certain wooden articles. 248,856; Oct. 30; Serial No. 269,143; published Aug. 21, 1928. Class 2.

Pilot Electric Manufacturing Co. Inc., The, Brooklyn, N. Y. Audiofrequency and radiofrequency amplification and detector units for radio receiving apparatus. 248,852; Oct. 30; Serial No. 259,132; published Aug. 14, 1928. Class 21.

Polacheck, Chas., & Bro. Co., Milwaukee, Wis. Chandeliers for gas and electric lights. 70,724; renewed Sept. 29, 1928.

Porcelain Products, Inc., Findlay, Ohio. Porcelain ware, crockery. 248,718; Oct. 30; Serial No. 258,287; published Aug. 7, 1928. Class 30.

Porto Rican Undergarment Co. (See Radinsky, Abraham.)

Postel, Philip H., Milling Company, Mascoutah, Ill. Wheat flour. 72,803–5; renewed Feb. 23, 1929.

Pratt-Rymer Co., San Leandro, Calif. Locks. 248,818; Oct. 30; Serial No. 268,463; published Aug. 21, 1928. Class 25.

Procter & Gamble Company, The, Ivorydale, Ohio; Kansas City, Mo.; Staten Island, N. Y.; and Cincinnati, Ohio, to The Procter & Gamble Company, Cincinnati, Ohio. Soap for laundry use. 70,555–6; renewed Sept. 15, 1928.

Procter & Gamble Company, The, Ivorydale, Ohio; Kansas City, Mo.; Staten Island, N. Y.; and Cincinnati, Ohio, to The Procter & Gamble Company, Cincinnati, Ohio. Soap for laundry use. 71,408; renewed Nov. 24, 1928.

Purox Company, Denver, Colo. Welding and cutting gas torches. 248,842; Oct. 30; Serial No. 267,798; published Aug. 21, 1928. Class 34.

Radinsky, Abraham, doing business as Porto Rican Undergarment Co., New York, N. Y. Underwear. 248,782; Oct. 30; Serial No. 267,315; published Aug. 7, 1928. Class 39.

Rainbow Dye Co., New York, N. Y. Preparation for stripping or discharging color. 71,928; renewed Dec. 22, 1928.

Randolph Fruit Company, Los Angeles, Calif., assignor to Randolph Marketing Company, Riverside, Calif. Oranges and lemons. 72,339; renewed Jan. 19, 1929.

Rasin-Monumental Company of Anne Arundel County, Baltimore, Md. Fertilizers. 248,854–5; Oct. 30; Serial Nos. 269,149–50; published Aug. 21, 1928. Class 10.

Regatta Manufacturing Company, Inc., Baltimore, Md. Athletic underwear. 248,706; Oct. 30; Serial No. 265,806; published July 17, 1928. Class 39.

Reine, Lewis, doing business as Reine Company, San Francisco, Calif. Malt syrup. 248,878; Oct. 30. Class 46.

Relyea, Albert G. (See Brooks, John F., Co., assignor.)

Rice-Stix Dry Goods Co., St. Louis, Mo. Men's, youths' and boys' wearing apparel. 248,673; Oct. 30; Serial No. 264,384; published Aug. 7, 1928. Class 39.

Roanoke Coffee & Spice Co. Inc., Roanoke, Va. Coffee. 71,168; renewed Nov. 3, 1928.

Roberts, Johnson & Rand Shoe Company, assignor, by mesne assignments, to International Shoe Co., St. Louis, Mo. Leather boots and shoes. 71,838; renewed Dec. 15, 1928.

Rochester Garment Shop, St. Paul, Minn. Women's clothing. 248,803; Oct. 30; Serial No. 267,511; published July 31, 1928. Class 39.

Rochester, Mrs. W. H., Enid, Okla. Handmade handkerchiefs. 248,713; Oct. 30; Serial No. 265,014; published July 31, 1928. Class 42.

Roland, Bernard S., New York, N. Y. Pajamas. 248,725; Oct. 30; Serial No. 249,023; published Aug. 7, 1928. Class 39.

Rosen, Rosie, doing business as B. Rosen, New York, N. Y. Infants' bath robes and buntings. 248,793; Oct. 30; Serial No. 267,012; published Aug. 14, 1928. Class 39.

Ross, Sydney, Co., The, Newark, N. J. Toilet preparations. 248,869; Oct. 30; Serial No. 269,923; published Aug. 28, 1928. Class 6.

Roubaix Mills, Inc., New York, N. Y. Piece goods made of wool. 248,781; Oct. 30; Serial No. 267,319; published Aug. 7, 1928. Class 42.

Royal Blue Hosiery Co. (See Berkowitz, Sam.)

St. Charles Net & Hammock Company, St. Charles, Ill. Minnow seines and basket-ball goals. 248,873; Oct. 30. Class 22.

St. Charles Net & Hammock Company, St. Charles, Ill. Porch and lawn swings. 248,875; Oct. 30. Class 32.

Sallan Inc., Detroit, Mich. Finger rings. 248,731; Oct. 30; Serial No. 236,893; published Aug. 14, 1928. Class 28.

Salm, John, doing business as Salm Manufacturing Company, Torrance, Calif. Pocketknives. 248 893; Oct. 30. Class 23.

Samoline Corporation, Chicago, Ill. Paint-cleaning compounds. 248,732; Oct. 30; Serial No. 234 231; published July 31, 1928. Class 4.

Säureschutz-Gesellschaft m. b. H., Berlin-Alt-Glienicke, Germany. Vessels or tanks, casings, and cylinders. 248 677; Oct. 30; Serial No. 266,890; published Aug. 21, 1928. Class 2.

Säureschutz-Gesellschaft m. b. H., Berlin-Alt-Glienicke, Germany. Tubes, pipes, valves, faucets, etc. 248 678; Oct. 30; Serial No. 266,888; published Aug. 21, 1928. Class 13.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 248 711; Oct. 30; Serial No. 265,455; published Aug. 7, 1928. Class 39.

Schulz, M., Co., Chicago, Ill. Reproducing grand pianos. 248 744; Oct. 30; Serial No. 268,115; published Aug. 14, 1928. Class 36.

Sel-En-Tex Industries. (See Johnson, James T., jr.)

Sectioner Company. (See Hinde, Charles.)

Selz, Schwab & Company, Chicago, Ill. Boots and shoes. 72,729; renewed Feb. 16, 1929.

Sexton Manufacturing Company, Fairfield, Ill. Men's and children's underwear and night wear. 248 653; Oct. 30; Serial No. 263,432; published July 24, 1928. Class 39.

Sexton Manufacturing Company, Fairfield, Ill. Children's underwear and night wear. 248 667; Oct. 30; Serial No. 263,728; published July 24, 1928. Class 39.

Shapleigh Hardware Company. (See Norvell-Shapleigh Hardware Company.)

Sherwood Distilling & Distributing Company, The, Baltimore, Md. Straight rye whiskey. 248 870; Oct. 30; Serial No. 263,673; published July 3, 1928. Class 49.

Sibson & Stern, Inc., Philadelphia, Pa. Dishcloths, bar cloths, floor cloths, etc. 248 658; Oct. 30; Serial No. 262,490; published July 31, 1928. Class 42.

Silk, Louis A., New York, N. Y. Handkerchiefs. 248,817; Oct. 30; Serial No. 268,467; published July 31, 1928. Class 42.

Simmons, George W., Corporation, New York, N. Y. Ginger ale. 248,764; Oct. 30; Serial No. 268,395; published Aug. 21, 1928. Class 45.

Slade, D. & L., Co., Boston, Mass. Spices. 72,582; renewed Feb. 2, 1929.

Slater's Globe Carpet & Linoleum Co. Inc., Paterson, N. J. Linoleum and oiled cloth. 248 689; Oct. 30; Serial No. 266,442; published Aug. 7, 1928. Class 20.

Smith, Albert D., & Co., New York, N. Y. Cotton piece goods and shade cloth. 248,665; Oct. 30; Serial No. 263,974; published Aug. 7, 1928. Class 42.

Smith, Emérentienne. (See Miville, Mrs. Edouard.)

Smith Morris Inc., New York, N. Y. Neckties. 248,789; Oct. 30; Serial No. 267,212; published Aug. 14, 1928. Class 39.

Smith, Sylvanus, & Co. Inc., assignor to Frank C. Pearce Company, Gloucester, Mass. Salted fish. 72,505–6; renewed Jan. 26, 1929.

Societe Job (Anciens Etablissements Bardou-Job et Publie). (See Maison Pierre Bardou-Job, assignor.)

Solar Mfg. Co. (See Grant, W. T., Company.)

Spang Novelty Corporation, New York, N. Y. Base-metal containers for cigarettes. 248 680; Oct. 30; Serial No. 266,834; published Aug. 14, 1928. Class 8.

Spearhead Boiler Plug Inc., Cleveland, Ohio. Boiler repair plugs. 248,715; Oct. 30; Serial No. 258,838; published Aug. 21, 1928. Class 13.

Stadium Underwear Company, Inc., Baltimore, Md. Athletic underwear, nightshirts, and pajamas. 248,693; Oct. 30; Serial No. 266,338; published Aug. 7, 1928. Class 39.

Standard Neckwear Company, Boston, Mass. Neckties, scarfs, and cravats. 248,816; Oct. 30; Serial No. 268,564; published Aug. 14, 1928. Class 39.

Standard Rice Company, Inc., Houston, Tex. Rice flakes. 248,685; Oct. 30; Serial No. 266,564; published Aug. 14, 1928. Class 46.

Steen, E., & Bro., Baltimore, Md. Cereal products. 248,790; Oct. 30; Serial No. 267,149; published Aug. 14, 1928. Class 46.

Stege, G. H., Jr. Co. Inc., New York, N. Y. Cotton goods in the piece. 248,730; Oct. 30; Serial No. 237,990; published Aug. 7, 1928. Class 42.

Sterling Products (Incorporated). (See Knowlton Danderine Co., The, assignor.)

Sterling Products (Incorporated). (See Pape, Thompson & Pape, assignor.)

Strawbridge & Clothier, assignor to Strawbridge & Clothier, Philadelphia, Pa. Leather gloves. 72,731; renewed Feb. 16, 1929.

Sturgis, Julie, New York, N. Y. Ladies' gowns, wraps, coats, etc. 248,705; Oct. 30; Serial No. 265,862; published July 24, 1928. Class 39.

Superior Felt & Bedding Co., Chicago, Ill. Mattresses. 248,754; Oct. 30; Serial No. 269,331; published Aug. 21, 1928. Class 32.

Tiffany & Company, New York, N. Y. Table cutlery, pocketknives, scissors, etc. 248,769; Oct. 30; Serial No. 267,093; published Aug. 21, 1928. Class 23.

Tiffany & Company, New York, N. Y. Flexible steel measuring tapes, aeronautical and marine compasses, etc. 248,770; Oct. 30; Serial No. 267,092; published Aug. 21, 1928. Class 26.

Tishman, Maurice, New York, N. Y. Mountings for jewelry. 248,844; Oct. 30; Serial No. 260,780; published Aug. 14, 1928. Class 28.

Townsend, E. M., & Co., New York, N. Y. Hosiery and underwear. 248,701; Oct. 30; Serial No. 265,936; published July 31, 1928. Class 39.

Tri-City Grocery Co. (See Pershall, C. W., & Sons.)

Tyson Shirt Co., Norristown, Pa. Shirts, pajamas, nightshirts, etc. 248,694; Oct. 30; Serial No. 266,334; published July 24, 1928. Class 39.

Tyson Shirt Co., Norristown, Pa. Shirts, pajamas, nightshirts, etc. 248,695; Oct. 30; Serial No. 266,333; published Aug. 7, 1928. Class 39.

Union Company, Columbus, Ohio. Boys' suits. 248,810; Oct. 30; Serial No. 268,712; published Aug. 14, 1928. Class 39.

Union News Company, The, New York, N. Y. Post cards. 72,950; renewed Mar. 2, 1929.

United States Fastener Co., Portland, Me., and Boston, Mass., assignor to United States Fastener Company, Boston, Mass. Snap fasteners. 72,888; renewed Mar. 2, 1929.

United States Products Corporation, Birmingham, Ala. Rubber and asbestos mechanical packings and belts. 248,753; Oct. 30; Serial No. 269,376; published Aug. 21, 1928. Class 35.

Utah Electric Radio Company, Salt Lake City, Utah. Radio receiving sets and parts thereof. 248,846; Oct. 30; Serial No. 260,249; published Aug. 14, 1928. Class 21.

Vanity Fair Silk Mills, Reading, Pa. Cloth in the piece. 248,743; Oct. 30; Serial No. 268,125; published Aug. 14, 1928. Class 42.

Vertex Hosiery Mills, Inc., Weissport, Pa. Hosiery. 248,752; Oct. 30; Serial No. 268,190; published Aug. 14, 1928. Class 39.

Viener, Samuel, New York, N. Y. Underwear, wearing apparel, etc. 248,714; Oct. 30; Serial No. 264,931; published July 24, 1928. Class 39.

Villamil & Gonzalez, Buenos Aires, Argentina. Cotton piece goods. 248,720; Oct. 30; Serial No. 257,949; published Aug. 14, 1928. Class 42.

Vulcan Match Co., Inc., New York, N. Y. Safety matches. 248,807; Oct. 30; Serial No. 268,757; published Aug. 7, 1928. Class 9.

W. M. W. Clothing Corp, New York, N. Y. Suits, coats, overcoats, etc. 248,885; Oct. 30. Class 39.

Wellington, Sears & Company, Boston, Mass. Cotton duck. 72,394; renewed Jan. 19, 1929.

West, Allen L., New York, N. Y. Fabrics. 248 809; Oct. 30; Serial No. 268,723; published Aug. 14, 1928. Class 42.

Western Lime Stone Products Company, Omaha, Nebr. Limestone. 248,874; Oct. 30. Class 46.

Wheeling Steel Corporation, Wheeling, W. Va. Black and galvanized steel sheets. 248,674; Oct. 30; Serial No. 264,741; published Aug. 7, 1928. Class 14.

Widmann, Hans A., New York, N. Y. Cigarette and cigar holders and pipes. 248,806; Oct. 30; Serial No. 268,763; published Aug. 7, 1928. Class 8.

Wieland, A. Robert, Auerbach, near Chemnitz, Germany. Woven and knitted fabrics. 248,663; Oct. 30; Serial No. 261,543; published Aug. 7, 1928. Class 42.

Wilcox, H. F., Oil & Gas Company, Tulsa, Okla. Gasoline, crude oil, fuel oil, etc. 248,772; Oct. 30; Serial No. 266,290; published Aug. 14, 1928. Class 15.

Willard, Colbert & Giles, New York, N. Y. Silk piece goods. 248,808; Oct. 30; Serial No. 268,724; published Aug. 7, 1928. Class 42.

Wilson, H. A., Company, Newark, N. J. Finger rings. 248,840; Oct. 30; Serial No. 267,915; published Aug. 14, 1928. Class 28.

Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Plant-fertilizing materials. 70,948; renewed Oct. 20, 1928.

Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Plant-fertilizing materials. 71,871; renewed Dec. 15, 1928.

Windram Manufacturing Co., South Boston, Mass. Piece goods of cotton, silk, wool, etc. 248,687; Oct. 30; Serial No. 266 503; published Aug. 7, 1928. Class 42.

Wulfing Company, Inc., The, New York, N. Y. Pharmaceutical calcium product, etc. 248,891; Oct. 30. Class 6.

Z. B. Yarn Mills Union City, N. J. Yarns and threads. 248,862–3; Oct. 30; Serial Nos. 269,044–5; published Aug. 14, 1928. Class 43.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Butler Candies, Inc., Elgin, Ill. Butler's Radiant Filled Morsels. For Candy. 34,854; Oct. 30.

Clicquot Club Company, Millis, Mass. Blends with Friends, Cliquot Club, Sec, Ginger Ale Supreme. For Ginger Ale. 34,855; Oct. 30.

Esbencott Laboratories, Portland, Oreg. Santiseptic. For Antiseptic Lotions. 34,856; Oct .30.

Fritsch, Lewis A., Cincinnati, Ohio. Stanup. For Shoulder Brace. 34,857; Oct. 30.

Haskell & Burns, Wenatchee, Wash. Good Taste. For Fresh Apples. 34,858; Oct. 30.

Haskell & Burns, Wenatchee, Wash. Export Quality. For Fresh Apples. 34,859; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Sterling. For Boxes. 34,860; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. J. Bacon & Sons. For Boxes. 34,861; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Berkshire Footwear Corp. For Boxes. 34,862; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. The Boston Store. For Boxes. 34,863; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. G. A. Coleman Co. Incorporated. For Boxes. 34,864; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Golden's Bootery. For Boxes. 34,865; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Dorris & Levy. For Boxes. 34,866; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Duchess Footwear of Fashion. For Boxes. 34,867; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Meyer Greentree. For Boxes. 34,868; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. The New Levite's. For Boxes. 34,869; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Reeves Shoe Co. For Boxes. 34,870; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Shoes to be Proud of. For Boxes. 34,871; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Sterling. For Boxes. 34,872; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Tosk's Shoe Shop. For Boxes. 34,873; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. The Traveler Shoe Co. For Boxes. 34,874; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Wulff Shoe Co. For Boxes. 34,875; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. McBryde Boot Shop. For Boxes. 34,876; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Dannenberg's. For Boxes. 34,877; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Hammersmith's. For Boxes. 34,878; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. May Shoe Co. For Boxes. 34,879; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. The Mirror. For Boxes. 34,880; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. The Strouss-Hirshberg Co. For Boxes. 34,881; Oct. 30.

Hoague-Sprague Corporation, Lynn, Mass. Tober's Shoe Store. For Boxes. 34,882; Oct. 30.

Hollie, Dr. Joseph T., doing business as Theo. Hollie Company, Los Angeles, Calif. Lax-Krax. For Dr. Hollie's Lax Crax Wafers. 34,883; Oct. 30.

Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich. Home Made Bread. For Bread. 34,884; Oct. 30.

Keenan, M. A., & Sons, New London, Conn. Eagle. For Malt Extract. 34,885; Oct. 30.

Keenan, M. A., & Sons, New London, Conn. Malthop. For Malt Extract. 34,886; Oct. 30.

Lancaster Inc., Los Angeles, Calif. Tastit Tosted. For Bread. 34,887; Oct. 30.

Lemay, Louis A., Greenville, N. H. It-Will Polish. For Polish for Automobiles. 34,888; Oct. 30.

Los Angeles Brewing Co., Los Angeles, Calif. Eastside. For Malt Syrup. 34,889; Oct. 30.

Los Angeles Brewing Co., Los Angeles, Calif. Eastside. For Pure Malt Syrup (Light). 34,890; Oct. 30.

Mitchell, John J., Brooklyn, N. Y. Mitchell's Divolo. For Dog Remedy. 34,891; Oct. 30.

Neff, George L., doing business as Geo. L. Neff & Co., Pittsburgh, Pa. Noble Caffé. For Coffee. 34,892; Oct. 30.

Neff, George L., doing business as Geo. L. Neff & Co., Pittsburgh, Pa. Chaffless Fresh Roasted Steel Cut Coffee. For Coffee. 34,893; Oct. 30.

Parker, Royce L., Forest Park, Ill. Monkey's Lunch. For Peanuts. 34,894; Oct. 30.

Pierce & Stevens, Inc., Buffalo, N. Y. Val-U-Lac Value in Lacquers. For Industrial Lacquers and Thinners. 34,895; Oct. 30.

Robbert, (Mrs.) Jane, Brooklyn, N. Y. Robbert's Lemon Bleach Lotion. For White Imported Oil of Lemon and Tragacanth Jelly Lotion. 34,896; Oct 30.

Toyo Sauce Manufacturing Company, Inc., Los Angeles, Calif. Toyo Shoyu. For Table Sauce. 34,897; Oct. 30.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Black, Starr & Frost, New York, N. Y. The Legend of the King and the Dervish. For Gold Toilette Set. 11,301 Oct. 30.

Cream of Wheat Co., Minneapolis, Minn. New Enthusiasm in the Classroom with this Plan. For Wheat Breakfast Food. 11,302; Oct. 30.

Conkey, G. E., Company, The, Cleveland, Ohio. Poultry Calendar. For Poultry Remedies. 11,303; Oct. 30.

Heinz, H. J., Company, Pittsburgh, Pa. Thick, Meltingly Tender Steaks . . . Fried Oysters . . . For Tomato Ketchup. 11,304; Oct. 30.

Schmid, Julius, Inc., New York, N. Y. Harva Combs for Men. For Combs. 11,305; Oct. 30.

Schmid, Julius, Inc., New York, N. Y. Harva Pocket Combs. For Combs. 11,306; Oct. 30.

Shaggy-Tex, Inc., Philadelphia, Pa. Shaggy-Tex, The Versatile Coat for Town and Country. For Ladies' Coats. 11,307; Oct. 30.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A & B Laboratories, Syracuse, N. Y. Treated cloth for automobile dry washing. 268,957; Oct. 30. Class 4.

Ager, N., & Sons, Atlantic City, N. J. Canned milk, fruits, fish, etc. 272,119; Oct. 30. Class 46.

Aldo Company, The, Salamanca, N. Y. Preparation for cramps, chills, and indigestion. 271,870; Oct. 30. Class 6.

Aktiebolaget Karlstads Spisbrodsfabr'k, Karlstad, Sweden. Bread. 270,453; Oct. 30. Class 46.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet paper, tissue and crepe paper, and paper towels. 272,193; Oct. 30. Class 37.

Allbestos Corporation, Philadelphia, Pa. Brake linings. 269,380; Oct. 30. Class 35.

Allen, S. L., & Co., Inc., Philadelphia, Pa. Coasting sleds. 271,106; Oct. 30. Class 22.

Alpha Sigma Lambda National Fraternity, Oak Park, Ill. Membership pins, finger rings, watch charms, etc. 261,032; Oct. 30. Class 28.

Alshuler, Chas., Mfg. Co., The, Racine, Wis. Shirts. 271,074; Oct. 30. Class 39.

American Tarso Company, Inc, New York, N. Y. Leather. 270,409; Oct. 30. Class 1.

American Wringer Co., Inc., Woonsocket, R. I. Squeezing rolls. 270,909; Oct. 30. Class 23.

Amtorg Trading Corporation, New York, N. Y. Matches. 272,787; Oct. 30. Class 9.

Appleton Co., Anderson, S. C. Cotton piece goods. 259,386; Oct. 30. Class 42.

Araujo & Bastos, Limitada, Lisbon and Setubal, Portugal. Sardines. 253,406; Oct. 30. Class 46.

Armstrong Cork Company, Pittsburgh, Pa. Floor tiling. 271,791; Oct. 30. Class 12.

Arnold, Constable & Co., Inc., doing business as Arnold Constable, New York, N. Y. Perfumes and cosmetics. 270,456; Oct. 30. Class 6.

Arnold, Constable & Co., Inc., New York, N. Y. Sheets, pillowcases, napkins, etc. 270,688; Oct. 30. Class 42.

Arpenko, Inc., Rochester, N. Y. Smoked and fresh pork products. 258,391–4; Oct. 30. Class 46.

Arwell Products Company, Waukegan, Ill. Deodorant and insecticide. 272,090; Oct. 30. Class 6.

Associated Fruit Company, The, Delta, Colo. Fresh apples. 271,332; Oct. 30. Class 46.

Athletic Tea Company, Inc., St. Louis, Mo. Soap powders. 272,532; Oct. 30. Class 4.

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 271,676–7; Oct. 30. Class 39.

Beiser, Edward T., Company, Inc., Riverside, Conn. Perfumes, bleach and beauty creams, dry and liquid rouges, etc. 271,793; Oct. 30. Class 6.

Belden Manufacturing Company, Chicago, Ill. Electrical conductors, ignition and starter cables. 261,284; Oct. 30. Class 21.

Belding Hem'nway Company, New York, N. Y. Hosiery. 271,641; Oct. 30. Class 39.

Belle Pointe Dairy. (See Godchaux Sugars, Inc.)

Bennett Pumps Corporation, Muskegon, Mich. Canopy structure. 271,590; Oct. 30. Class 50.

Bereman, J. H., doing business as Stillman Freck'e Cream Co., Aurora, Ill. Toilet preparations. 270,952; Oct. 30. Class 6.

Bernstein, Schwartz & Co., Inc., New York, N. Y. Suits, topcoats, and overcoats. 271,424; Oct. 30. Class 39.

Boehm, Daniel P., Brooklyn, N. Y. Butter, eggs, and poultry. 271,975; Oct. 30. Class 46.

Borwit Teller & Co., New York, N. Y. Hosiery. 270,820; Oct. 30. Class 39.

Borick, Frank V., New York, N Y. Pleasure boats 271,738; Oct. 30. Class 19.

Bowen, George H., Boston, Mass. Dog biscuits and cereals. 270,008; Oct. 30. Class 46.

Bowser, William M., doing business as The Bowser Medicine Company, Marysville, Ohio. System cleanser and tonic. 271,375; Oct. 30. Class 6.

Brauer, Carl Fr., assignor to Carl Fr. Brauer G. m. b. H., Stettin, Germany. Inked ribbons, rubber-stamp pads, carbon paper, etc. 257,145. Oct. 30. Class 11.

Brill, H. C., Company, Inc., Newark, N. J. Pie filling. 271,289; Oct. 30. Class 46.

Brooks, Furleigh, New York, N. Y. Camera-lens filters. 271,427; Oct. 30. Class 26.

Brothers Corporation, New York, N. Y. Analgesic sedative and antipyretic, also on a brand of bile salts. 270 234; Oct. 30. Class 6.

Butterfield, Fred, & Co., Inc., New York, N. Y. Glass lamp shades. 272,693; Oct. 30. Class 33.

Cadet Knitting Company, Philadelphia, Pa. Hosiery. 272 469; Oct. 30. Class 39.

California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. Sugars. 272,251; Oct. 30. Class 46.

Carlowitz & Co., Hamburg, Germany, and Shanghai, China Firecrackers. 270,160; Oct. 30. Class 9.

Carter & Johnston, Inc., New York, N. Y. Ladies' wearing apparel. 269,573; Oct. 30. Class 39.

Celanese Corporation of America, New York N. Y. Robes, dresses, and coats. 271,377; Oct. 30. Class 39.

Century Co., The, New York, N. Y. Dictionaries, books, and periodicals. 262,151; Oct. 30. Class 38.

Chase Brass & Copper Company, Waterbury, Conn. Filters. 272,382; Oct. 30. Class 31.

Chemische Fabrik Pyrgos G. m. b. H., Radebeul, Germany. Weed-killing substances. 257,968; Oct. 30. Class 6.

Claridge, Lee, doing business as Warrenite Co., St. Louis, Mo. Liquid for external use for banishing brush and cream from the plumage of all white birds. 269,945; Oct. 30. Class 6.

Clemente Jacques y Cia., Mexico, Mexico. Piquant chili sauces. 267,580; Oct. 30. Class 46.

Clemente Jacques y Cia., Mexico, Mexico. Canned chili sauce prepared with juice of turkey. 267,584; Oct. 30. Class 46.

Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, brooches, etc. 271,742; Oct. 30. Class 28.

Cokesbury Press. (See Lamar & Whitmore, Book Agents, Publishing House, M. E. Church, Sou h.)

Co-Operative Grange League Federation Exchange, Inc., Syracuse, N. Y. Feeds. 268,969; Oct. 30. Class 46.

Co-Operative Grange League Federation Exchange, Inc., Syracuse, N. Y. Seeds. 268,971; Oct. 30. Class 1.

Coy, Anna C., doing business as Coy Manufacturing Works, Chicago, Ill. Mail boxes. 217,922; Oct. 30. Class 2.

"Cristallo" A. G., Thusis, Switzerland. Mineral waters, flavoring syrups, and maltless beverages. 263,589; Oct. 30. Class 45.

Crown Central Petroleum Corporation, Houston, Tex. Motor oils. 269,946; Oct. 30. Class 15.

Crown Chocolate Co., McKeesport, Pa. Candy. 268,589; Oct. 30. Class 46.

Curran Laboratories, Inc., New York, N. Y. Cosmetics. 262,211; Oct. 30. Class 6.

Curran Laboratories, Inc., New York, N. Y. Cosmetics. 263,931–2; Oct. 30. Class 6.

Curtiss Aeroplane and Motor Company, Inc., Garden City and Buffalo, N. Y. Internal-combustion motors. 269,184; Oct. 30. Class 23.

Daily Graphic, Inc., New York, N. Y. Newspaper column. 271,477; Oct. 30. Class 38.

Defender Mfg. Company Inc., Long Island City, N. Y. Sheets and pillowcases. 269,096; Oct. 30. Class 42.

De Nobili Cigar Company, New York, N. Y. Cigars. 270,077; Oct. 30. Class 17.

Diamond Expansion Bolt Company, Garwood, N. J. Drills. 271,846; Oct. 30. Class 23.

Dicke, Carl H., doing business as Pioneer Heat Regulator Company, Bloomfield, N. J. Thermostats. 260,169; Oct. 30. Class 26.

Dickson-Jenkins Manufacturing Company, Fort Worth, Tex. Overalls, jumpers, work trousers, etc. 271,687; Oct. 30. Class 39.

Dinnakalon, George, Manchester, N. H. Preparation for rupture. 270 691; Oct. 30. Class 6.

Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Dixon, A. M., doing business as The A. M. Dixon Co., St. Joseph, Mo. Liniment. 271,297; Oct. 30. Class 6.

Douglass & Green, Inc., New York, N. Y. Handkerchiefs. 267,487; Oct. 30. Class 42.

Dreher, Monroe F., Inc., Newark, N. J. Labels, catalogues, price lists, etc. 269,830; Oct. 30. Class 38.

Eastern Coal Company, Chicago, Ill. Coal. 269,722; Oct. 30. Class 1.

Eastman Kodak Company, Rochester, N. Y. Films, cameras, etc. 271,542–3; Oct. 30. Class 26.

Eastman Kodak Company, Rochester, N. Y. Sensitized, photographic and motion-picture films, films bearing developed photographic images. 271,544; Oct. 30. Class 26.

Eddy, Newell A., Bay City, Mich. Corner and lawn trellises, arbors, arbor gates, and wood fencing. 270,921; Oct. 30. Class 12.

Edils Barbers' Supply Co., The, Pittsburgh, Pa. Face cream and skin purifier. 270,922; Oct. 30. Class 6.

Edwards, Charles R., Baltimore, Md. Salve. 270,992; Oct. 30. Class 6.

Efron and Novik, Passaic, N. J. Peppers, pickles, olives, etc. 246,334; Oct. 30. Class 46.

Electratonor Company. (See Sanche, Corinne M.)

Elish, Harry M., doing business as Harry Elish Paper Company, New York, N. Y. Paper. 270,694; Oct. 30. Class 37.

Elliopulos Bros., Chicago, Ill. Phonograph records. 262,450; Oct. 30. Class 36.

Ely & Walker Dry Goods Company, St. Louis, Mo. Shirts, play suits, etc. 254,839; Oct. 30. Class 39.

Emblem Manufacturing Company, Angola, N. Y. Bicycles. 253,725; Oct. 30. Class 19.

Emerol Manufacturing Co., New York, N. Y. Lubricating and penetrating oil. 270,961; Oct. 30. Class 15.

Empire Cutlery Co. (See Mindlin, Morris.)

Empire Metal Cap Co., Inc., Brooklyn, N. Y. Caps for bottles and jars. 253,621; Oct. 30. Class 50.

Enola Hosiery Co., Buffalo, N. Y. Hosiery. 266,920; Oct. 30. Class 39.

Eskimo Pie Corporation, Louisville, Ky. Ice cream and candy confection. 270,578; Oct. 30. Class 46.

Ever-Ready Chemical Co. (See Risch, Katherine M.)

Fair, The, Chicago, Ill. Playing cards. 271,299; Oct. 30. Class 22.

Fairchild Bros. & Foster, New York, N. Y. Concentrate. 272,326; Oct. 30. Class 6.

Falls City Mills Co., The, Louisville, Ky. Hosiery. 270 631; Oct. 30. Class 39.

Fashion Park Incorporated, Rochester, N. Y. Coats, vests, pants, and overcoats. 271,745; Oct. 30. Class 39.

Fashion Park Incorporated, Rochester, N. Y. Women's coats. 272,204; Oct. 30. Class 39.

Field, Leeds K., doing business as Lee Mar Co., New York, N. Y. Liniment. 271,025; Oct. 30. Class 6.

Fleurace Seat Company, Spring Lake, Mich. Plumber's woodwork. 271,964; Oct. 30. Class 13.

Foley Dog Supplies, Inc., Philadelphia, Pa. Dog medicines. 266 589; Oct. 30. Class 6.

Ford Motor Company, Fordson, Mich. Windshield wipers, automatic windshield wipers, and parts thereof. 268,597; Oct. 30. Class 29.

Four Square Underwear Company, Olney, Ill. Underwear. 271,238–9; Oct. 30. Class 39.

Fox Case Corporation, New York, N. Y. Motion pictures. 271 889; Oct. 30. Class 26.

French, R. T., Company, The, Rochester, N. Y. Herbs, spices, celery seed, etc. 270,699; Oct. 30. Class 46.

Freshman S., Co., Chicago, Ill. Radio receiving sets. 271,748; Oct. 30. Class 21.

Frohlich, Samuel D., New York, N. Y. Hair nets. 272,710; Oct. 30. Class 42.

Fruit Products Company of Florida, Eagle Lake, Fla. Canned grapefruit juice and orange juice. 270,475–6; Oct. 30. Class 46.

Fujimoto, Edward K., doing business as Fujimoto Company, San Francisco, Calif. Salt water used as a general tonic. 266,199; Oct. 30. Class 6.

General Alloys Company, Boston, Mass. Castings of metal alloy. 271,243–5; Oct. 30. Class 14.

General Dry Batteries, Inc., Cleveland, Ohio. Electric batteries. 271,751; Oct. 30. Class 21.

General Producing Company, The. (See Oyama, Mizuo.)

Glass, Henry, & Co., New York, N. Y. Cotton, silk and cotton, and artificial-silk and cotton piece goods. 272,796–800; Oct. 30. Class 42.

Glass, Henry, & Co., New York, N. Y. Cotton, silk and cotton, and artificialsilk and cotton piece goods. 272,802–5; Oct. 30. Class 42.

Gleichman, Jack, doing business as The San-I-Pro Co., New York, N. Y. Protectors for nursing nipples for infants. 265,534; Oct. 30. Class 44.

Godchaux Sugars, Inc., doing business as Belle Pointe Dairy, New Orleans, La. Milk. 271,849; Oct. 30. Class 46.

Goheen Corporation of New Jersey, Newark, N. J. Ready-mixed paint. 272,332; Oct. 30. Class 16.

Goldberg Brothers, Denver, Colo. Radioantenna. 271,487; Oct. 30. Class 21.

Gotham Knitting Machine Corporation, New York, N. Y. Machines for repairing fabrics. 272,487–8; Oct. 30. Class 23.

Gould, Barbara, Ltd., Rochester and New York, N. Y. Astringents, bleach and beauty creams, dry rouges, etc. 267 923; Oct. 30. Class 6.

Graham Metal Manufacturing Company, Kansas City, Mo. Bottle caps. 271,488–9; Oct. 30. Class 50.

Grasselli Powder Company, The, Cleveland, Ohio. Explosives. 272,609; Oct. 30. Class 9.

Greenebaum, M. H., Inc., New York, N. Y. Ham, sausages, Frankfurters, and bacon. 269,583; Oct. 30. Class 46.

Gross, Benjamin & Edward J., Co., Inc., New York, N. Y. Finger rings and mountings therefor. 266,465; Oct. 30. Class 28.

Grueby Faience and Tile Company, Boston, Mass., and Philadelphia, Pa. Pottery and faience. 268,094; Oct. 30. Class 30.

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods made of silk, cotton, and wool. 272,491; Oct. 30. Class 42.

Hall, Thos., & Sons, Portland, Oreg. Fresh deciduous fruits. 272,610; Oct. 30. Class 46.

Hallam, H. C., Okonoko Springs, Eustis, Fla. Maltless beverages and table water. 272,655; Oct. 30. Class 45.

Hanan, Herbert W., doing business as Hanan & Son, Brooklyn, N. Y. Hosiery. 271,250; Oct. 30. Class 39.

Hartmann, William J., doing business as Hartmann Chemical Co., Pittsburgh, Pa. Cleansing cold and vanishing cream and salve. 270,591; Oct. 30. Class 6.

Heart of America Macaroni Company, The. (See Kansas City Macaroni & Importing Co.)

Heger Products Company, The, St. Paul, Minn. Fish, bird, cat, and dog foods. 262,607; Oct. 30. Class 46.

Hess, Goldsmith & Co., Inc., New York, N. Y. Silk piece goods. 272,810; Oct. 30. Class 42.

Hickey-Freeman Co., Rochester, N. Y. Topcoats and overcoats. 270,994; Oct. 30. Class 39.

Hickey-Freeman Co., Rochester, N. Y. Men's suits. 272,212; Oct. 30. Class 39.

Hickey-Freeman Co., Rochester, N. Y. Topcoats and overcoats. 272,213; Oct. 30. Class 39.

Hork Bros. Company, Chicago, Ill. Neckties. 269,898; Oct. 30. Class 39.

Huber, John, Rock Hall, Md. Cakes. 272,888; Oct. 30. Class 46.

Hutmacher, A., Aktiengesellschaft, Confiserie & Biscuitsfabric, Stalden 1/E., Stalden, Switzerland. Ice-cream bonbons. 272,275; Oct. 30. Class 46.

Hulike Publishing Company, The. (See Jochum, W. Ivanhoe.)

Independent Optical Company, Southbridge, Mass. Spectacles, eyeglasses, etc. 270,245; Oct. 30. Class 26.

Iowa Packing Company, Des Moines, Iowa. Hog feed. 272,497; Oct. 30. Class 46.

Jochum, W. Ivanhoe, doing business as The Hulike Publishing Company, Chicago, Ill. Pamphlets. 270,847; Oct. 30. Class 38.

Johnson Chair Company, Chicago, Ill. Chairs. 270,933; Oct. 30. Class 32.

Kabuck-Rochester Inc., Rochester, N. Y. Clothing. 261,441; Oct. 30. Class 39.

Kansas City Macaroni & Importing Co., doing business as The Heart of America Macaroni Company, Kansas City, Mo. Macaroni. 271,856; Oct. 30. Class 46.

Kaufmann, Max, & Co., Inc., New York, N. Y. Cotton textile piece goods. 272,616; Oct. 30. Class 42.

Keebler Weyl Baking Co., Philadelphia, Pa. Biscuits. 272,816; Oct. 30. Class 46.

Kloster Steel Corporation, Chicago, Ill. Tool steel. 261,637; Oct. 30. Class 14.

Knight, Mrs. O. A., Omaha, Nebr. Mayonnaise, Thousand Island dressing, and nut spread. 272,038; Oct. 30. Class 46.

Kops Bros. Inc., New York, N. Y. Corsets, brassières, and girdles and combinations of same. 271,654; Oct. 30. Class 30.

Korite, Inc., Boston, Mass. Leather preservative. 264,725; Oct. 30. Class 4.

Korn, Fred F., Chicago, Ill. Maltless beverages and syrups for making the same. 272,499; Oct. 30. Class 45.

Kremer, George, New York, N. Y. Bleach and beauty creams, cold creams, etc. 270,191; Oct. 30. Class 6.

Kresge Department Store Corporation, Newark, N. J. Wearing apparel. 269,355; Oct. 30. Class 39.

La Biothérapie S. A. (Societe des Produits Chimiques et Biologiques), Paris, France. Dental cement for fillings. 271,130; Oct. 30. Class 44.

Labovitz, Samuel, doing business as Lee Man Co., Minneapolis, Minn. Pants, coats, overalls, etc. 271,609; Oct. 30. Class 39.

Lamar & Whitmore, Book Agents, Publishing House, M. E. Church, South, doing business as Cokesbury Press, Nashville, Tenn. Printed books. 267,366; Oct. 30. Class 38.

Lamm, A., Porzellanmalerei, Kunst- und Antiquitätenhandlung. (See Pitschke, Rudolf.)

Landau-Schneider Co., Inc., New York, N. Y. Ladies' knitted and textile underwear, pajamas, and negligees. 271,393; Oct. 30. Class 39.

Landers, Frary & Clark, New Britain, Conn. Knives, forks, nut picks, etc. 269,967; Oct. 30. Class 28.

La Salle Laboratories, Inc., Detroit, Mich. Tablets and capsules. 272,288; Oct. 30. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Layon Leghorn Farms. (See Simpson, A. M.)
Lee Man Co. (See Labovitz, Samuel.)
Lee-Mar Co. (See Field, Leeds K.)
Lees, James, & Sons Company, Bridgeport, Pa. Yarns. 271,553; Oct. 30. Class 43.
Lightfoot Schultz Company, Hoboken, N. J., and New York, N. Y. Empty receptacles. 262,364; Oct. 30 Class 30
Liles, Walter, doing business as Vitalime Co., Richmond, Va. Medicinal preparation. 271,762; Oct. 30. Class 6.
Lincoln Pipe Works, Brooklyn, N. Y. Smoking pipes. 272,415; Oct. 30. Class 8.
Lincrusta-Walton Company, Hackensack, N. J. Wall covering. 272,765; Oct. 30. Class 20.
Lindy Perfumed Confetti Co. (See Polychronopoulos, Stamatis.)
Little Bohemia Products Co. (See Lo Presti Bros.)
Lo Presti Bros., doing business as Little Bohemia Products Co., Chicago, Ill. Malt syrups. 268,931; Oct. 30. Class 46.
Lumbard, H. G., Shoe Company, Auburn, Me. Boots and Shoes. 269,672; Oct. 30. Class 39.
Lysons, J. Will, New York, N. Y. Cream-applying device in the nature of a brush. 270,131; Oct. 30. Class 29.
Madel'on Mod s, Inc., New York, N. Y. Soaps. 272,165; Oct. 30. Class 4.
Maillard, Henry, Inc., Long Island City, N. Y. Candy. 271,386; Oct. 30. Class 46.
Marklane Tailors Inc., New York, N. Y. Coats, pants, vests, and overcoats. 262,723; Oct. 30. Class 39.
Martins, Inc., Brooklyn, N. Y. Clothing. 272,041; Oct. 30. Class 39.
Masonite Corporation, Laurel, Miss. Fibre board, hard board, synthetic lumber, etc. 268,992; Oct. 30. Class 12.
Mauser Barrel Co. Inc., New York, N. Y. Steel barrels and drums. 272,168; Oct. 30 Class 2.
McEwen, Irving, Omaha, Nebr. Garden insecticide preparation. 271,612; Oct. 30. Class 6.
McGavin's Bread Inc., Denver, Colo. Bread. 261,974; Oct. 30; Class 46.
McKay, W. E., & Co., Inc., New York, N. Y. Cotton goods. 272,895; Oct. 30. Class 42.
McLeod Furniture Company, Laurel, Miss. Composite boards. 271,449; Oct. 30. Class 12.
Mem Block Distributing Co (See Mindlin, Morris.)
Metal Utilities Company, Indianapolis, Ind. Metal construction cleats. 269,681; Oct 30. Class 13.
Milich & Oppenheimer, Inc., New York, N. Y. Shirts. 264,832; Oct. 30. Class 39.
Mindlin, Morris, doing business as Mem Block Distributing Co. and Empire Cutlery Co., New York, N. Y. Astringent. 271,072; Oct. 30. Class 6.
Miner, Est Henry C., Inc., New York, N. Y. Astringents, bleach and beauty creams, dry rouges, etc. 259,012; Oct. 30. Class 6.
Moore, Irving E., doing business as E. F. Moore, Toledo, Ohio. Medicine for rheumatism. 261,583; Oct. 30. Class 6
Mülhens, Paul P., doing business as Die Eau de Cologne- & Parfüme le-Fabrik "Glock ngasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Lavender water. 242,105; Oct. 30. Class 6.
Munoz, Antonio M., Murcia, Spain. Pepper. 272,045; Oct. 30. Class 46.
National Board of The Young Womens Christian Associations of The United States of America, New York, N. Y. Periodicals, catalogs, books, etc. 270,973; Oct. 30. Class 38.
National Carbon Company, Inc., New York, N. Y. Radio receiving sets and loud speakers. 270,300; Oct. 30. Class 21.
National Supply Company of Delaware, The, New York, N. Y. Oil-well tools and equipment. 263,608; Oct. 30. Class 23.
National Towel Vendor Company, The, San Francisco, Calif. Vending machines for paper towels and soaps. 267,782; Oct. 30. Class 23.
Navison, Myron M., Shoe Co., Inc., Boston, Mass. Boots and Shoe. 271,707; Oct. 30. Class 39.
Nels, William, & Son, Doylestown, Pa. Maltless beverages and syrups and concentrates for making the same. 272,508; Oct. 30. Class 45.
Nesmith, Ralph A., Los Angeles, Calif. Exercising device. 264,383; Oct. 30. Class 44.
Nicomede, Joseph W., doing business as Nicomede Music Co., Altoona, Pa. Flashing electric lights. 269,797; Oct. 30. Class 21.
Noble, Vernamae, Minneapolis, Minn. Dresses, pajamas, underwear etc. 251,357; Oct. 30. Class 39.
No-Dus Company. (See Plant, Walter H.)
Northwestern Distributing Co Inc., Mason City, Iowa. Stock and poultry feeds. 269,033–4; Oct 30. Class 46
Okonite Company, The, Passaic, N. J. Insulated wires and cables. 271,500; Oct. 30. Class 21.
Olympia Canning Company, Olympia, Wash. Canned vegetables. 272,052; Oct. 30. Class 46.
O-Nox Laboratories, Chicago, Ill. Chlorine crystals. 270,557; Oct. 30. Class 6.
Oppenheim, Jules, doing business as Western Pulleystone Company, Chicago, Ill. Compound for preventing a reducing-belt slippage. 272,572; Oct. 30. Class 4.
Optical Service Corporation, New York, N. Y. Ophthalmic lenses. 271,310; Oct. 30. Class 26.
Organ-Oxide Products Company, Detroit, Mich. Whetstones, grindstones, buffers, etc. 270,346–7; Oct. 30. Class 4.
Oyama, Mizuo, doing business as The General Producing Company, Honolulu, Hawaii. Epicurean powder. 268,997; Oct. 30. Class 46.
Pacific States Bedding & Furniture Company, Los Angeles, Calif. Mattresses and pillows. 265,682; Oct. 30. Class 32.
Paleveda-Bryan Printing Company, Inc., Tampa, Fla. Blank memorandum and scrap pads, blotters, etc. 268,461; Oct. 30. Class 38
Pascoe, Walter, doing business as Quality Products Co., Evansville, Ind. Malt syrup. 266,397; Oct. 30. Class 46.
Pastene, P., & Co., Inc., doing business as Purity Products Company, Boston, Mass. Macaroni. 270,976; Oct. 30. Class 46.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Work gloves. 270 045–7; Oct. 30. Class 39.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Work gloves. 270 049–50; Oct. 30. Class 39.
Perfection Canning Co., Inc., Newark, N. Y. Canned fruits, vegetables, berries, and apple sauce. 248,860; Oct. 30. Class 46.
Perfecto Manufacturing Co., Chicago, Ill. Automobile top dressing. 268,999; Oct. 30. Class 4.
Pioneer Heat Regulator Company. (See Dicke, Carl H.)
Pitschke, Rudolf, doing business as A. Lamm Porzellanmanufaktur, Kunst- und Antiquitätenhandlung, Dresden, Germany. Painted china. 268,695; Oct. 30. Class 30.
Plant, Walter H., doing business as No-Dus Company, Columbus, Ohio. Deliquescent compound. 272,053; Oct. 30. Class 6.
Plastex Laboratories, Inc., Chattanooga, Tenn. Pads for cushioning false teeth. 272,426; Oct. 30. Class 44.
Polychronopoulos, Stamatis, doing business as Lindy Perfumed Confetti Co., New York, N. Y. Perfumed confetti. 271,565; Oct. 30. Class 37.
Polysius Corporation, Bethlehem, Pa. Cement kilns. 271,006; Oct. 30. Class 34.
Potash Ikoff, Morris, doing business as Potash Pharmaproducts Company, Brooklyn, N. Y. Pharmaceutical preparation. 270,393; Oct. 30. Class 6.
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 272,305; Oct. 30. Class 4.
Pro-phy-lac-tic Brush Company, Northampton, Mass. Toothbrushes. 269,914; Oct. 30. Class 29.
Pure Oil Company, The, Chicago, Ill. Oils, greases, and lubricants. 270,755; Oct. 30. Class 15.
Purity Products Company. (See Pastene, P., & Co., Inc.)
Quality Products Co. (See Pascoe, Walter.)
R. & H. Distributing Company. (See Riedisser, Joseph A.)
Realart Silk Hosiery Mills. (See Sachsenmaier, Frances.)
Regent Card & Paper Co., Inc., New York, N. Y. Bond paper and ledger paper. 271,864; Oct. 30. Class 37.
Register and Tribune Company, The, Des Moines, Iowa. Cartoon section of newspapers and other publications. 271,085; Oct. 30. Class 38.
Reynolds & Irving Inc., New York, N. Y. Cheese. 234,736; Oct. 30. Class 46.
Reynolds & Reynolds Company, The, Dayton, Ohio. Blank slips, ledger leaves, envelopes, etc. 271,361; Oct. 30. Class 37.
Rice-Stix Dry Goods Co., St. Louis, Mo. Wearing apparel. 268,513; Oct. 30. Class 39.
Riedisser, Joseph A., doing business as R. & H. Distributing Company, St. Louis, Mo. Chemicals. 270,942; Oct. 30. Class 6
Risch, Katherine M., doing business as Ever-Ready Chemical Co., St. Louis, Mo. Cleaning fluid. 271,905; Oct. 30. Class 4.
Rival Novelty Co., Inc., New York, N. Y. Boys' wash suits, shirts, children's creepers, etc. 265,119; Oct. 30. Class 39.
Roanoke Mills Company, Roanoke Rapids, N. C. Ticking. 272,007; Oct. 30. Class 42.
Robinson, Benj., doing business as A. Robinson & Son, New York, N. Y. Finger rings. 264,607; Oct. 30 Class 28.
Rochester Folding Box Co., The, Rochester, N. Y. Paper boxes and corrugated shipping cases. 268,814; Oct. 30. Class 2.
Rohm & Haas Company, Philadelphia, Pa. Insecticides, fungicides, or disinfectants. 272,057; Oct. 30. Class 6.
Roman Meal Company, Tacoma, Wash. Cereal breakfast food, bread, cookies, etc. 259,460; Oct. 30. Class 46.
Rosedale Milling Co., Rosedale, Kansas City, Kans. Wheat flour. 270 509; Oct. 30. Class 46
Rosenfeld, Arnold, Silk Corporation, New York, N. Y. Silk piece goods. 271,709; Oct. 30. Class 42.
Ruhyette Co., The San Francisco, Calif. Cake and cream pie. 270,147; Oct. 30. Class 46.
Rydberg, William, doing business as William Rydberg Bakery Company, Cambridge, Mass. Bread, crackers, sugar rusk zwieback, etc. 271,560; Oct. 30. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Sachsenmaier, Frances, doing business as Realart Silk Hosiery Mills, Philadelphia, Pa. Hosiery. 269,320; Oct. 30. Class 39.
Safeway Stores, Inc., Los Angeles, Calif. Matches. 272,622; Oct. 30. Class 9.
Salamander Pad Company, Incorporated, Martinsville, Ind. Medicated pads. 270,206; Oct. 30. Class 6.
Saliman, Wm., & Co., Inc., New York, N. Y. Dresses. 272,432; Oct. 30. Class 39.
Sanche, Corinne M., doing business as Electrotonor Company, West Montreal, Canada, and New York, N. Y. Electric massage device. 266,404; Oct. 30. Class 44.
San-I-Pro Co., The. (See Gleichman, Jack.)
Schmidt, Jay H., Inc., New York, N. Y. Nail polish and liquid nail-polish remover. 271,456; Oct. 30. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Talking-machine records. 271,316; Oct. 30. Class 36.
Selby Shoe Co., The, Portsmouth, Ohio. Boots and shoes. 271,411; Oct. 30. Class 39.
Sequo'a Foo'hill Fruit Growers, Woodlake, Calif. Fresh grapes. 272,624; Oct. 30. Class 46.
Shepard, Sarah E. B., Lowell, Mass. Ladies' hats. 272,010; Oct. 30. Class 39.
Simmons, George W., Corporation, New York, N. Y. Canned fruits, vegetables, and fish, dried fruits, pickles, etc. 258,294; Oct. 30. Class 46.
Simon Costume & Dress Co. Inc., New York, N. Y. Dresses. 272,085; Oct. 30. Class 39.
Simpson, A. M., doing business as Layon Leghorn Farms, St. Clairsville, Ohio. Baby chicks, eggs, and live poultry. 266,831; Oct. 30. Class 46.
Sioux City Tent and Awning Co., Sioux City, Iowa. Tents. 268,638; Oct. 30. Class 50.
Sligh Furniture Company, Grand Rapids, Mich. Wooden household furniture. 272,312; Oct. 30. Class 32.
Snower, M., & Company, Chicago, Ill. Towels and toweling. 244,795; Oct. 30. Class 42.
Solvay Process Company, The, Solvay, N. Y. Chemicals. 269,865; Oct. 30. Class 6.
Sonneborn, Henry, Company, The, Baltimore, Md. Suits, overcoats, trousers, etc. 269,466; Oct. 30. Class 39.
Southern Wisconsin Produce Company, Madison, Wis. Eggs and dressed poultry. 267,613; Oct. 30. Class 46.
Speak-O-Phone, Incorporated, New York, N. Y. Metallic disc phonograph records. 268,322; Oct. 30. Class 36.
Springfield Leather Products Company, The, Springfield, Ohio. Cigarette cases. 272,441; Oct. 30. Class 8.
Standard Oil Company of New Jersey, Wilmington, Del. Hydrocarbon solvents. 262,420; Oct. 30. Class 6.
Stannard, S. Grant, Long Beach, Calif. Medicine. 268,823; Oct. 30. Class 6.
Steelman & Archer, Philadelphia, Pa. Soap liniment, soda mint, tincture iron, etc. 271,322; Oct. 30. Class 6.
Sterbach, Charles J., Philadelphia, Pa. Horse-radish and sauerkraut. 265,506; Oct. 30. Class 46.
Stern Brothers, New York, N. Y. Toilet soaps. 272,231; Oct. 30. Class 4.
Stillman Freckle Cream Co. (See Bereman, J. H.)
Stirn, L., & E., New York, N. Y. Beach coats. 271,577; Oct. 30. Class 39.
Stuhmer, Geo. F., & Co., Inc., Brooklyn, N. Y. Pumpernickel. 264,851; Oct. 30. Class 46.
Sunical Packing Company, San Francisco, Calif. Canned and dried fruits, vegetables, honey, etc. 249,873; Oct. 30. Class 46.
Sutter Packing Company, Mayfield, Calif. Canned fruits. 271,366; Oct. 30. Class 46.
Sylvia Hat Mfg. Co., St. Louis, Mo. Hats and hat frames. 262,942; Oct. 30. Class 39.
Tau Delta Phi, New York, N. Y. Pins, finger rings, bracelets, etc. 270,731; Oct. 30. Class 28.
Ten Garden Products Co., San Francisco, Calif. Cane and maple syrup. 269,807; Oct. 30. Class 46.
Textil-Syndikat Gesellschaft mit beschränkter Haftung Chemnitz, Germany. Stockings and socks. 262,431; Oct. 30. Class 39.
Theta Kappa Omega Fraternity, Memphis, Tenn. Fraternity badges, lapel buttons, cuff links, etc. 263,983; Oct 30. Class 28.
Tiffany-Stahl Productions, Inc., New York, N. Y. Motion pictures synchronized with sound. 272,584; Oct. 30. Class 26.
Tindle Milling Company, Springfield, Mo. Dairy feed, egg mash, developing cream, etc. 271,280; Oct. 30. Class 46.
Toledo Glove Manufacturing Company, The, Toledo, Ohio. Gloves and gauntlets 261,465; Oct. 30. Class 39.
Trane, Raymond, Omaha, Nebr. Golf tees. 272,517; Oct. 30. Class 22.
United States Foil Company, Louisville, Ky. Metal, felt, etc., roofing. 262,581; Oct. 30. Class 12.
United States Gypsum Company, Chicago, Ill. Plaster. 271,834; Oct. 30. Class 12.
Universal Button Fastening & Button Company, Detroit, Mich. Buttons. 264,853; Oct. 30. Class 40.
Val Blatz Brewing Co., Milwaukee, Wis. Malt syrup. 269,496; Oct. 30. Class 46.
Van Dyke Knitting Company, Milwaukee, Wis. Knitted underwear. 271,369; Oct. 30. Class 39.
Van Raalte Co. Inc., New York, N. Y. Hosiery. 272,068; Oct. 30. Class 39.
Veldown Company, Inc., New York, N. Y. Cellulose for surgical dressings, etc. 272,369; Oct. 30. Class 44.
Vernor, James, Company, Detroit, Mich. Aromatic baking flavor. 258,438; Oct. 30. Class 46.
Vino Bar Corporation of America, Los Angeles, Calif. Candy and candy confections. 271,155; Oct. 30. Class 46.
Viscose Company, The, Marcus Hook, Pa. Rayon yarn. 262,878; Oct. 30. Class 43.
Vitalime Co. (See Liles, Walter.)
Vogler-Schillo Company, Chicago, Ill. Pickles. 270,064; Oct. 30. Class 46.
Wall & Ochs, Incorporated, Philadelphia, Pa. Spectacles, eyeglass mountings, etc. 268,720; Oct. 30. Class 26.
Warren, Roscoe F., Los Angeles, Calif. Camping equipment. 258,972; Oct. 30. Class 50.
Warrenite Co. (See Claridge, Lee.)
Weber Medical Tea Company, The, Brooklyn, N. Y. Laxative preparations. 271,911; Oct. 30. Class 6.
Weinstein, Bert L., New York, N. Y. Shark skins. 269,539; Oct. 30. Class 1.
Western Lime Stone Products Company, Omaha, Nebr. Pulverized limestone. 272,011; Oct 30. Class 46.
Western Pulleystone Company. (See Oppenheim, Jules.)
Weymann, Charles T., Paris, France. Gasoline gauges. 245,040; Oct. 30. Class 26.
Williams, John, Mfg. Co., Philadelphia, Pa. Fabrics. 272,841; Oct. 30. Class 42.
Williamson Candy Co., Chicago, Ill. Candy. 272,593; Oct. 30. Class 46.
Yarnall Paint Company, Philadelphia, Pa. Paint enamel. 271,867; Oct. 30. Class 16.
Zucca's Restaurant Inc., doing business as Zucca's Italian Gardens, New York, N. Y. Canned soups. 272,089; Oct. 30. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Bags and bag bodies, baskets, and traps and certain wooden articles. Pi Beta Phi Settlement School of the Pi Beta Phi Fraternity. 248,856; Oct. 30; Serial No. 269,143; published Aug. 21, 1928.
Boxes, Corrugated-fiber. General Fibre Box Company. 248,815; Oct. 30; Serial No. 268,599; published Aug. 21, 1928.
Cups, individual paper drinking. N. M. Paul. 248,847; Oct. 30; Serial No. 260,132; published Aug. 21, 1928.
Mangers for metal cow stalls, calf, bull, and hog pens, stock and storage tanks. James Manufacturing Company. 248,792; Oct. 30; Serial No. 267,050; published Aug. 21, 1928.
Tray for ice-cream cones. Dagger Corporation. 248,795; Oct. 30; Serial No. 267,758; published Aug. 21, 1928.
Vessels or tanks, casings, and cylinders. Sänreschutz-G sellschaft m. b. H. 248,677; Oct. 30; Serial No. 266,890; published Aug. 21, 1928.

CLASS 3.

Bags, trunks, etc., Traveling. I. Miller & Sons, Inc. 248,721; Oct. 30; Serial No. 257,690; published Aug. 14, 1928.
Trunks, Sectional. C. Hinde. 248,682; Oct. 30; Serial No. 266,773; published Aug. 14, 1928.

CLASS 4.

Cleaning compounds, Paint-. Samoline Corporation. 248,772; Oct. 30; Serial No. 234,231; published July 31, 1928.
Soap. Grant Storage Battery Co. 248,881; Oct. 30.
Soap. Procter & Gamble Company. 70,555–6; renewed Sept. 15, 1928.
Soap for laundry use. Procter & Gamble Company. 71,408; renewed Nov. 24, 1928.
Steel polisher of abrasive rubber. E. Faber. 72,746; renewed Feb. 16, 1929.

CLASS 6.

Chemicals. Badische Anilin & Soda Fabrik. 71,349; renewed Nov. 17, 1928.
Glycerine. Hance Brothers & White, Inc. 248,894; Oct. 30.
Lotion. L. J. Graves. 248 882; Oct. 30
Williamson Candy Co., Chicago, Ill. Candy. 272,593; renewed Sept. 8, 1928.
Medicines. Gehe & Co. Aktiengesellschaft. 71,638; renewed Dec. 8, 1928.

Perfumes. Isabey Paris, Inc. 248,690; Oct. 30; Serial No. 266,428; published June 26, 1928.
Pharmaceutical calcium product, etc. Wulfing Company. 248,891; Oct. 30
Preparation for stripping or discharging color. Rainbow Dye Co. 71,928; renewed Dec. 22, 1928.
Preparation for use as a scalp tonic, Liquid. Knowlton Danderine Co. 71,981; renewed Dec. 22, 1928.
Preparations, Toilet. Sydney Ross Co. 248,869; Oct. 30; Serial No. 269,923; published Aug. 28, 1928.
Remedy for hog plague. E. Merck. 71,910; renewed Dec. 22, 1928.

CLASS 7.

Rope, cord, and twine. Henry & Allen. 248,814; Oct. 30; Serial No. 268,607; published Aug. 14, 1928.

CLASS 8.

Cigarette and cigar holders and pipes. H. A. Widenmann. 248,806; Oct. 30; Serial No. 268,763; published Aug. 7, 1928.
Cigarette papers. Maison Pierre Bardou-Job. 73,124; renewed Mar. 16, 1929.
Containers for cigarettes. Sparg Novelty Corporation. 248,680; Oct. 30; Serial No. 266,834; published Aug. 14, 1928.
Tobacco containers and combination containers for tobacco, cigars, cigarettes, and the like. Colt's Patent Fire Arms Manufacturing Co. 248,823; Oct. 30; Serial No. 268,774; published Aug. 7, 1928.

CLASS 9.

Matches, Safety. Vulcan Match Co. 248,807; Oct. 30; Serial No. 268,757; published Aug. 7, 1928.
Powder, Smokeless. E. I. du Pont de Nemours Powder Company. 72,658; renewed Feb. 9, 1929.
Shotguns and rifles. Marlin Firearms Co. 72,755; renewed Feb. 16, 1929.
Shotguns, Automatic. Browning Brothers Company. 248,671; Oct. 30; Serial No. 264,867; published Aug. 7, 1928.

CLASS 10.

Fertilizer, Commercial. Georgia Fertilizer Company. 248,883; Oct. 30
Fertilizers. Co-Operative Grange League Federation Exchange, Inc. 248,864; Oct. 30; Serial No. 268,970; published Aug. 21, 1928.
Fertilizers. M. P. Hubbard & Company. 248,675; Oct. 30; Serial No. 265,967; published June 26, 1928.
Fertilizers. Rasin Monumental Company of Anne Arundel County. 248,854-5; Oct. 30; Serial No. 269,149-50; published Aug. 21, 1928.
Fertilizing materials, Plant-. Wilson & Toomer Fertilizer Co 70,948; renewed Oct. 20, 1928.
Fertilizing materials, Plant-. Wilson & Toomer Fertilizer Co. 71,871; renewed Dec. 15, 1928.

CLASS 13.

Aluminum ware. Aluminum Goods Manufacturing Co. 248,681; Oct. 30; Serial No. 266,775; published Aug. 21, 1928.
Boiler repair plugs. Spearhead Boiler Plug Inc. 248,715; Oct. 30; Serial No. 258,838; published Aug. 21, 1928.
Rack for kitchen utensils: Metal wall. R. E. Miller. 248,830; Oct. 30; Serial No. 268,879; published Aug. 21, 1928.
Tubes, pipes, valves, faucets, etc. Säureschutz-Gesellschaft m. b. H. 248,678; Oct. 30; Serial No. 266,888; published Aug. 21, 1928.
Valves, Air-release. Buffalo Meter Company. 248,876; Oct. 30.

CLASS 14.

Steel sheets, Black and galvanized. Wheeling Steel Corporation. 248,674; Oct. 30; Serial No. 264,741; published Aug. 7, 1928.

CLASS 15.

Gasoline, crude, etc., oils. H. F. Wilcox Oil & Gas Company. 248,772; Oct. 30; Serial No. 266,290; published Aug. 14, 1928.
Oils and greases. J. Millkey. 248,872; Oct. 30.

CLASS 17.

Cigarettes, cigars, and tobacco. Maspero Frères, Limited. 71,303; renewed Nov. 17, 1928.
Cigarettes, cigars, and tobacco. Maspero Frères, Limited. 71,493; renewed Nov. 24, 1928.
Tobacco, Smoking. Cohen, Weenen & Co. 248,771; Oct. 30; Serial No. 266,975; published Aug. 21, 1928.
Tobaccos, cigars, and cigarettes, Chewing, smoking, snuffing. General-Direktion der Österr. Tabakregie. 248,735; Oct. 30; Serial No. 265,631; published Aug. 21, 1928.

CLASS 19.

Automobile motor-truck and motor-bus bodies, cabs, seats, etc. Hercules Products, Inc. 248,829; Oct. 30; Serial No. 268,373; published Aug. 21, 1928.
Automobiles and structural parts thereof. Nash Motors Company. 248,684; Oct. 30; Serial No. 266,680; published Aug. 21, 1928.
Automobiles and structural parts thereof. Nash Motors Company. 248,688; Oct. 30; Serial No. 266,471; published Aug. 21, 1928.
Bicycles. Cuthrell Company. 248,698; Oct. 30; Serial No. 266,192; published Aug. 21, 1928.
Trucks and constructive parts thereof, Motor. Divco-Detroit Corporation. 248,683; Oct. 30; Serial No. 266,718; published Aug. 21, 1928.
Trucks, Motor. Indiana Truck Corporation. 248,867; Oct. 30; Serial No. 268,788; published Aug. 21, 1928.

CLASS 20.

Linoleum and cork carpet. Congoleum-Nairn, Inc. 248,860; Oct. 30; Serial No. 269,091; published Aug. 14, 1928.
Linoleum and felt-base floor coverings. Armstrong Cork Company. 248,686; Oct. 30; Serial No. 266,308; published Aug. 14, 1928.
Linoleum and oiled cloth. Slater's Globe Carpet & Linoleum Co Inc. 248,689; Oct. 30; Serial No. 266,442; published Aug. 7, 1928.
Linoleum and products resembling linoleum, Deutsche Linoleum-Werke A.-G. 248,853; Oct. 30; Serial No. 269,186; published Aug. 14, 1928.

CLASS 21.

Audiofrequency and radiofrequency amplification and detector units for radio receiving apparatus. Pilot Electric Manufacturing Co. Inc. 248,852; Oct. 30; Serial No. 259,132; published Aug. 14, 1928.
Condensers, Electric. Hammarlund Manufacturing Company. 248,736; Oct. 30; Serial No. 258,634; published Aug. 14, 1928.
Electric batteries. Norvell-Shapleigh Hardware Company. 70,913; renewed Oct. 13, 1928.
Electric controllers for motors, automatic starters, electrical switches, etc. C. J. Anderson & Co. 248,662; Oct. 30; Serial No. 261,602; published Aug. 14, 1928.
Electric cookers and bakers. Lite Ray Utilities Corporation. 248,710; Oct. 30; Serial No. 265,668; published Aug. 14, 1928.
Electric cord. Crescent Insulated Wire & Cable Co. Inc. 248,787; Oct. 30; Serial No. 267,244; published Aug. 14, 1928.
Electric lights, Portable. Brady Manufacturing Co. 248,726; Oct. 30; Serial No. 248,874; published Aug. 14, 1928.
Electric motor controllers. Cutler-Hammer Mfg. Co. 248,794; Oct. 30; Serial No. 266,917; published Aug. 14, 1928.
Electric traffic-control systems, Automatic. Automatic Signal Corporation. 248,788; Oct. 30; Serial No. 267,222; published Aug. 14, 1928.
Electric water heaters. Bastina-Morley Co. 248,676; Oct. 30; Serial No. 266,910; published Aug. 14, 1928.
Electrical equipment. Diamond Electric Corporation. 248,703; Oct. 30; Serial No. 265,874; published Aug. 14, 1928.
Fuses, fuse wire and links, etc. Chase-Shawmut Company. 248,801; Oct. 30; Serial No. 267,539; published Aug. 14, 1928.
Insulator-supporting pins. Locke Insulator Corporation. 248,656; Oct. 30; Serial No. 263,274; published Aug. 14, 1928.
Radio receiving sets and parts thereof. Utah Electric Radio Company. 248,846; Oct. 30; Serial No. 260,249; published Aug. 14, 1928.

CLASS 22.

Fishhooks. O. Mustad & Sön. 70,704; renewed Sept. 29, 1928.
Seines and basket-ball goals, Minnow. St Charles Net & Hammock Company. 248,873; Oct. 30, 1928.

CLASS 23.

Cutlery, pocket knives, scissors, etc., Table. Tiffany & Company. 248,769; Oct. 30; Serial No. 267,093; published Aug. 21, 1928.
Dishwashing appliance. R. H. Macy & Co. 248,762; Oct. 30; Serial No. 268,504; published Aug. 21, 1928.
Drills, bench grinders, etc., Hand. W. T. Grant Company. 248,758; Oct. 30; Serial No. 269,019; published Aug. 21, 1928.
Drivers, locomotive cranes, etc., Pile. Great Lakes Dredge & Dock Company. 248,738; Oct. 30; Serial No. 252,382; published Aug. 21, 1928.
Grinding machines, Precision. Heald Machine Company. 248,760; Oct. 30; Serial No. 268,604; published Aug. 21, 1928.
Knitting machines. Grosser Knitting Machine Co. 248,889; Oct. 30.
Knives, Pocket. J. Salm. 248,893; Oct. 30.
Taps, surface plates, and leading screws, Metal-working. The Imperial Trust for the Encouragement of Scientific and Industrial Research. 248,741; Oct. 30; Serial No. 235,778; published Aug. 21, 1928.
Tools, Automobile rim. Hercules Products Company. 248,767-8; Oct. 30; Serial Nos. 267,196-7; published Aug. 21, 1928.
Tools, Hand. Billings & Spencer Company. 248,759; Oct. 30; Serial No. 268,841; published Aug. 21, 1928.

CLASS 24.

Ironing boards and clothes-dryer cabinets and clothes-dryer racks. Conceale Fixture Company. 248,750; Oct. 30; Serial No. 268,214; published Aug. 21, 1928.

CLASS 25.

Locks. Pratt-Rymer Co. 248,818; Oct. 30; Serial No. 268,463; published Aug. 21, 1928.

CLASS 26.

Change-making machines. Hedman Manufacturing Company. 248,739-40; Oct. 30; Serial Nos. 241,226-7; published Aug. 21, 1928.
Lenses, Ophthalmic. Continental Optical Corporation. 248,761; Oct. 30; Serial No. 268,588; published Oct. 21, 1928.
Measuring tapes, aeronautical and marine compasses, etc., Flexible steel. Tiffany & Company. 248,770; Oct. 30; Serial No. 267,092; published Aug. 21, 1928.
Patterns, Garment. Mrs. E. Miville, née E. Smith. 248,766; Oct. 30; Serial No. 267,267; published Aug. 21, 1928.
Periscopes, Underwater. T. W. Hicks. 248,763; Oct. 30; Serial No. 268,496; published Aug. 21, 1928.
Photographic sensitized plates, films, etc. I. G. Farbenindustrie Aktiengesellschaft. 248,773; Oct. 30; Serial No. 266,195; published Aug. 21, 1928.
Rulers, Flexible steel and rubber. W. R. Mestler. 248,892; Oct. 30.

CLASS 27.

Watches and watch movements. Bulova Watch Company. 248,827; Oct. 30; Serial No. 268,419; published Aug. 21, 1928.

CLASS 28.

Badges, lapel buttons, breastpins, Fraternity. Alpha Gamma Delta Fraternity. 248,717; Oct. 30; Serial No. 258,615; published Aug. 14, 1928.
Bracelets, brooches, pendants, etc. Milton Jewelry Company. 248,841; Oct. 30; Serial No. 267,850; published Aug. 14, 1928.
Bracelets, brooches, scarfpins, etc. Brassler Company. 248,845; Oct. 30; Serial No. 260,487; published Aug. 14, 1928.
Mountings for jewelry. M. Fishman. 248,844; Oct. 30; Serial No. 260,780; published Aug. 14, 1928.
Pearls, necklaces, bracelets, etc. Cohn & Rosenberger, Inc. 248,839; Oct. 30; Serial No. 267,936; published Aug. 14, 1928.
Pins, belt chains, etc., Collar. Dolan & Bullock. 248,884; Oct. 30.
Rings, brooches, scarfpins, Finger. Abbey-Waas Company. 248,800; Oct. 30; Serial No. 267,624; published Aug. 14, 1928.
Rings, Finger. Sallan Inc. 248,731; Oct. 30; Serial No. 236,893; published Aug. 14, 1928.
Rings, Finger. H. A. Wilson Company. 248,840; Oct. 30; Serial No. 267,915; published Aug. 14, 1928.

CLASS 30.

Porcelain ware and crockery. Porcelain Products, Inc. 248,718; Oct. 30; Serial No. 258,287; published Aug. 7, 1928.

CLASS 31.

Refrigerators, refrigerator parts, etc. Electrolux Servel Corporation. 248,774; Oct. 30; Serial No. 265,895; published Aug. 21, 1928.

CLASS 32.

Beds and cots, Day. M. Marwell. 248,765; Oct. 30; Serial No. 267,848; published Aug. 21, 1928.
Furniture, Wooden. Pi Beta Phi Settlement School of the Pi Beta Phi Fraternity. 248,750; Oct. 30; Serial No. 269,144; published Aug. 21, 1928.
Mattresses. Superior Felt & Bedding Co. 248,754; Oct. 30; Serial No. 269,331; published Aug. 21, 1928.
Swings, Porch and lawn. St. Charles Net & Hammock Company. 248,875; Oct. 30.

CLASS 34.

Burners, Automatic coal. Iron Fireman Manufacturing Company. 248,719; Oct. 30; Serial No. 258,128; published Aug. 21, 1928.
Chandeliers. Chas. Polacheck & Bro. Co. 70,724; renewed Sept. 29, 1928.
Heater, Coal or wood burning household. Phillips & Buttorff Mfg. Co. 248,779; Oct. 30; Serial No. 267,385; published Aug. 21, 1928.
Heaters, Oil, gas, coal, and coke fuel. Abendroth Brothers. 248,749; Oct. 30; Serial No. 268,261; published Aug. 21, 1928.
Range covers, Gas. American Stove Company. 248,887; Oct. 30.
Torches, Welding and cutting gas. Purox Company. 248,842; Oct. 30; Serial No. 267,798; published Aug. 21, 1928.

CLASS 35.

Belting, Leather. Atlanta Belting Company. 248,755; Oct. 30; Serial No. 269,273; published Aug. 21, 1928.
Packings and belts, Rubber and asbestos mechanical. United States Products Corporation. 248,753; Oct. 30; Serial No. 269,376; published Aug. 21, 1928.
Tires and tubes, Pneumatic. Fisk Rubber Company. 248,886; Oct. 30.

CLASS 36.

Ocarinas. Fred. Gretsch Mfg. Co. 248,799; Oct. 30; Serial No. 267,651; published Aug. 14, 1928.
Pianos. Brown Bros. Piano Co. 248,880; Oct. 30.
Pianos, Reproducing grand. M. Schulz Co. 248,744; Oct. 30; Serial No. 268,115; published Aug. 14, 1928.
Talking machines, Tone arms for. Astral Radio Corporation. 248,659; Oct. 30; Serial No. 262,014; published Aug. 14, 1928.

CLASS 37.

Paper, Handmade. C. H. Boulin. 248,734; Oct. 30; Serial No. 175,644; published Aug. 9, 1927.
Papers, Printing and writing. Baughman Stationery Co. 72,532; renewed Feb. 2, 1929.

CLASS 38.

Post cards. Union News Company. 72,950; renewed Mar. 2, 1929.

CLASS 39.

Apparel, Wearing. Joshua Hoyle & Sons, Ltd. Inc. 248,848-9; Oct. 30; Serial Nos. 259,912-13; published Aug. 7, 1928.
Apparel, Wearing. Joshua Hoyle & Sons, Ltd. Inc. 248,850; Oct. 30; Serial No. 259,909; published Aug. 7, 1928.
Aprons. M. Brown. 248,729; Oct. 30; Serial No. 247,774; Published Aug. 7, 1928.
Bath robes and bunting, Infants'. R. Rosen. 248,793; Oct. 30; Serial No. 267,012; published Aug. 14, 1928.
Boots and shoes. Selz, Schwab & Company. 72,729; renewed Feb. 16, 1929.
Boots and shoes, Leather. Roberts, Johnson & Rand Shoe Company. 71,838; renewed Dec. 15, 1928.
Cloaks, Ladies'. Hurowitz & Erdrich. 248,728; Oct. 30; Serial No. 248,411; published July 24, 1928.
Clothing, Men's and boys'. May Department Stores Company. 248,669; Oct. 30; Serial No. 264,316; published June 19, 1928.
Clothing, Men's and boys'. Pendleton Woolen Mills. 248,660; Oct. 30; Serial No. 261,834; published July 24, 1928.
Clothing, Women's. Rochester Garment Shop. 248,803; Oct. 30; Serial No. 267,511; published July 31, 1928.
Coats. Carter & Churchill Co. 248,664; Oct. 30; Serial No. 264,067; published July 10, 1928.
Coats and dresses. A. J. Lowe. 248,783; Oct. 30; Serial No. 267,307; published July 24, 1928.
Coats and sweaters, etc., Knitted sport. Hope Knitting Co. 248,691; Oct. 30; Serial No. 266,426; published July 24, 1928.
Coats, vests, and trousers, Boys'. May Department Stores Company, 248,723; Oct. 30; Serial No. 252,560; published Oct. 18, 1927.
Coats, vests, trousers. J. Schoeneman, Incorporated. 248,711; Oct. 30; Serial No. 265,455; published Aug. 7, 1928.
Collars, Men's. Carson Pirie Scott & Co. 248,796; Oct. 30; Serial No. 267,698; published Aug. 7, 1928.
Collars, Men's. Carson Pirie Scott & Co. 248,797; Oct. 30; Serial No. 267,694; published July 31, 1928.
Dress and negligee shirts. S. Liebovitz & Sons. 248,804; Oct. 30; Serial No. 267,497; published July 31, 1928.
Dresses. Abbate & Franks, Inc. 248,824; Oct. 30; Serial No. 268,764; published Aug. 14, 1928.
Dresses. Gimbel Brothers, Inc. 248,735; Oct. 30; Serial No. 267,302; published July 24, 1928.
Dresses. M. R. Jones. 248,745; Oct. 30; Serial No. 268,099; published Aug. 7, 1928.
Dresses, Children's. Joshua Hoyle & Sons, Ltd. Inc. 248,821 Oct. 30; Serial No. 268,445; published Aug. 14, 1928.
Garments, One-piece outer. Martin Brothers Company. 248,831; Oct. 30; Serial No. 266,385; published Aug. 7, 1928.
Garments, Sleeping. Friedman & Friedman. 248,704; Oct. 30; Serial No. 265,871; published July 24, 1928.
Gloves, Leather. Strawbridge & Clothier. 72,731; renewed Feb. 16, 1929.
Gowns, Paper. W. Kleinberg. 248,696; Oct. 30; Serial No. 266,325; published July 31, 1928.
Gowns, wraps, coats, etc., Ladies'. J. Sturgis. 248,705; Oct. 30; Serial No. 265,862; published July 24, 1928.
Hosiery. E. T. Abel. 248,692; Oct. 30; Serial No. 266,343; published July 24, 1928.
Hosiery. B. Altman & Co. 248,747; Oct. 30; Serial No. 268,262; published Aug. 14, 1928.
Hosiery. Bear Brand Hosiery Co. 248,742; Oct. 30; Serial No. 268,134; published Aug. 7, 1928.
Hosiery. Bear Brand Hosiery Co. 248,805; Oct. 30; Serial No. 267,481; published July 31, 1928.
Hosiery. Belding Heminway Company. 248,877; Oct. 30.
Hosiery. S. Berkowitz. 248,697; Oct. 30; Serial No. 266,235; published Aug. 7, 1928.
Hosiery. Carter Dry Goods Co. 248,751; Oct. 30; Serial No. 268,211; published Aug. 14, 1928.
Hosiery. Carson Pirie Scott & Co. 248,778; Oct. 30; Serial No. 267,405; published July 24, 1928.
Hosiery. Carson Pirie Scott & Co. 248,836; Oct. 30; Serial No. 268,026; published Aug. 7, 1928.
Hosiery. Julius Kayser & Co. 248,820; Oct. 30; Serial No. 268,447; published Aug. 14, 1928.
Hosiery. Massachusetts Knitting Mills. 248,837; Oct. 30; Serial No. 267,083; published Aug. 7, 1928.
Hosiery. Pennsylvania Silk Hosiery Mills, Inc. 248,733; Oct. 30; Serial No. 230,351; published Oct. 11, 1927.

Hosiery. Vertex Hosiery Mills, Inc. 248,752; Oct. 30; Serial No. 268,190; published Aug. 14, 1928.
Hosiery and underwear. E. M. Townsend & Co. 248,701; Oct. 30; Serial No. 265,936; published July 31, 1928.
Hosiery, Knitted. Dayton Hosiery Mills. 248,826; Oct. 30; Serial No. 268,085; published Aug. 14, 1928.
Hosiery. Silk. Marshall Field & Company. 248,838; Oct. 30; Serial No. 267,943; published Aug. 7, 1928.
Knit goods. John F. Brooks Co. 70,463; renewed Sept. 1, 1928.
Knitted and woven goods. American Hosiery Company. 248,791; Oct. 30; Serial No. 267,107; published July 24, 1928.
Neckties. Smith Morris Inc. 248,789; Oct. 30; Serial No. 267,212; published Aug. 14, 1928.
Neckties, mufflers, and ladies' scarfs, Men's knitted. A. Abood. 248,724; Oct. 30; Serial No. 249,631; published July 26, 1927.
Neckties, mufflers, cravats, etc. Rice-Stix Dry Goods Co. 248,673; Oct. 30; Serial No. 264,384; published Aug. 7, 1928.
Neckties, scarfs, and cravats. Standard Neckwear Company. 248,816; Oct. 30; Serial No. 268,504; published Aug. 14, 1928.
Overalls. Great Eastern Manufacturing Company. 248,666; Oct. 30; Serial No. 263,942; published Aug. 14, 1928.
Overalls and jackets, Men's. Klinkerfues Bros. Co. 248,865; Oct. 30; Serial No. 268,870; published Aug. 14, 1928.
Overalls and one-piece work and play suits. H. D. Lee Mercantile Company. 248,679; Oct. 30; Serial No. 266,865; published July 24, 1928.
Overalls, coats, pants, etc. Beal-Burrow Dry Goods Co. 248,708; Oct. 30; Serial No. 265,774; published Aug. 14, 1928.
Overalls, jackets, pants, and one-piece work suits. P-K Manufacturing Company. 248,702; Oct. 30; Serial No. 265,923; published July 24, 1928.
Overalls, overall jackets, etc. D. M. Oberman Mfg. Co. 248,707; Oct. 30; Serial No. 265,800; published July 24, 1928.
Overcoats and topcoats, coats, etc. Hornstein-Newman Company. 248,835; Oct. 30; Serial No. 268,039; published Aug. 7, 1928.
Pajamas. B. S. Roland. 248,725; Oct. 30; Serial No. 249,023; published Aug. 7, 1928
Robes, Dressing. Chinese Corporation of America. 248,813; Oct. 30; Serial No. 268,676; published Aug. 14, 1928.
Shirts. Amsterdam Shirt Company. 248,890; Oct. 30.
Shirts. Janesville Clothing Co. 248,879; Oct. 30.
Shirts and boys' blouses. Elder Mfg. Co. 248,825; Oct. 30; Serial No. 268,430; published Aug. 14, 1928.
Shirts and pajamas, Work. Saul R. Lippman & Bro., Inc. 248,777; Oct. 30; Serial No. 267,430; published July 24, 1928.
Shirts, Dress and negligee. S. Liebovitz & Sons, Inc. 248,775; Oct. 30; Serial No. 267,496; published July 31, 1928
Shirts, pajamas, and lounging robes, Men's. A. S. Feingold. 248,661; Oct. 30; Serial No. 261,706; published Aug. 7, 1928.
Shirts, pajamas, nightshirts, etc. Tyson Shirt Co. 248,694; Oct. 30; Serial No. 266,334; published July 24, 1928.
Shirts, pajamas, nightshirts, etc. Tyson Shirt Co. 248,695; Oct. 30; Serial No. 266,333; published Aug. 7, 1928.
Socks or half hose. Interwoven Stocking Company. 248,657; Oct. 30; Serial No. 263,155; published July 24, 1928.
Suits and overcoats, Boys' outer. Carson Pirie Scott & Co. 248,802; Oct. 30; Serial No. 267,538; published Aug. 7, 1928.
Suits, Boys'. Union Company. 248,810; Oct. 30; Serial No. 268,712; published Aug. 14, 1928.
Suits, children's wash suits, and overalls, Play. Batavia Garment Corporation. 248,709; Oct. 30; Serial No. 265,773; published July 24, 1928.
Suits, coats, overcoats, etc. W. M. W. Clothing Corp. 248,885; Oct. 30.
Suits, topcoats, and overcoats, Men's. Graff Company. 248,784; Oct. 30; Serial No. 267,304; published July 24, 1928.
Sweaters, sweater coats, and hosiery. J. C. Penney Company. 248,786; Oct. 30; Serial No. 267,272; published Aug. 7, 1928.
Trousers. M. Berman. 248,700; Oct. 30; Serial No. 265,941; published July 24, 1928.
Trousers and knickers. Hillside Cotton Mills. 248,722; Oct. 30; Serial No. 254,216; published Aug. 14, 1928.
Underwear. Continental Undergarment Company. 248,868; Oct. 30; Serial No. 268,779; published Aug. 14, 1928.
Underwear. A. Rudinsky. 248,782; Oct. 30; Serial No. 267,315; published Aug. 7, 1928.
Underwear and nightwear, Children's. Sexton Manufacturing Company. 248,667; Oct. 30; Serial No. 263,728; published July 24, 1928.
Underwear and nightwear, Men's and children's. Sexton Manufacturing Company. 248,668; Oct. 30; Serial No. 263,432; published July 24, 1928.
Underwear, Athletic. Regatta Manufacturing Company. 248,706; Oct. 30; Serial No. 265,806; published July 17, 1928.
Underwear, nightshirts, and pajamas, Athletic. Stadium Underwear Company. 248,693; Oct. 30; Serial No. 266,338; published Aug. 7, 1928.
Underwear, wearing apparel, etc. S. Viener. 248,714; Oct. 30; Serial No. 264,931; published July 24, 1928.
Union suits, undershirts, and drawers. J. T. Johnson, jr. 248,780; Oct. 30; Serial No. 267,361; published July 24, 1928.

CLASS 40.

Fasteners and buttons, Glove and dress. Fownes Brothers and Company. 70,324; renewed Aug. 25, 1928.
Fasteners, Snap. United States Fastener Co. 72,888; renewed Mar. 2, 1929
Needles, toilet pins and safety pins, Hand-sewing. O. Mustad & Son. 70,662; renewed Sept. 22, 1928.

CLASS 42.

Bedquilts. Louisville Bedding Company. 248,888; Oct. 30.
Blankets, Woolen. Chatham Manufacturing Company. 248,861; Oct. 30; Serial No. 269,047; published Aug. 14, 1928.
Blankets, Woolen. Pendleton Woolen Mills. 248,828; Oct. 30; Serial No. 268,386; published Aug. 14, 1928.
Blankets, Woolen. Pendleton Woolen Mills. 248,843; Oct. 30; Serial No. 267,794; published Aug. 7, 1928.
Carpets and rugs. Lister & Co. Limited. 70,889; renewed Oct. 13, 1928.
Cloth, Cotton. R Mills. 248,668; Oct. 30; Serial No. 263,636; published Aug. 7, 1928.
Cloth in the piece of silk and combinations of silk and synthetic yarns. Vanity Fair Silk Mills. 248,743; Oct. 30; Serial No. 268,125; published Aug. 14, 1928.
Cloths and stuffs of wool, worsted, etc. John G. Hardy Limited. 246,672; Oct. 30; Serial No. 264,756; published Aug. 7, 1928.
Cotton duck. Wellington, Sears & Company. 72,394; renewed Jan. 19, 1929.
Cotton goods in the piece. G. H. Stege Jr. Co. Inc. 248,730; Oct. 30; Serial No. 237,990; published Aug. 7, 1928.
Cotton piece goods. Joshua Hoyle & Sons, Ltd. Inc. 248,822; Oct. 30; Serial No. 268,444; published July 31, 1928.
Cotton piece goods. Neuss Hesslein & Co. Inc. 248,699; Oct. 30; Serial No. 266,039; published July 31, 1928.
Cotton piece goods. Villamil & Gonzalez. 248,720; Oct. 30; Serial No. 257,949; published Aug. 14, 1928
Cotton piece goods and shade cloth. Albert D. Smith & Co. 248,665; Oct. 30; Serial No. 263,974; published Aug. 7, 1928.
Cotton piece goods, etc. Henry Glass & Co. 248,811; Oct. 30; Serial No. 268,692; published Aug. 7, 1928.
Coverlets, tapestries, bed rugs, etc. Manufacture Française de Tapis et Couvertures. 248,655; Oct. 30; Serial No. 263,327; published Aug. 7, 1928
Curtains, table linens, etc. Ruby Lane, Inc. 248,798; Oct. 30; Serial No. 267,669; published Aug. 7, 1928.
Dishcloths, bar cloths, floorcloths, etc. Sibson & Stern, Inc. 248,658; Oct. 30; Serial No. 262,490; published July 31, 1928.
Fabrics. A. L. West. 248,809; Oct. 30; Serial No. 268,723; published Aug. 14, 1928.
Fabrics, Woven and knitted. A. R. Wieland. 248,663; Oct. 30; Serial No. 261,543; published Aug. 7, 1928
Goods of cotton, silk, wool, etc., Piece. Windram Manufacturing Co. 248,687; Oct. 30; Serial No. 266,503; published Aug. 7, 1928.
Goods, Piece. Reubaix Mills, Inc. 248,781; Oct. 30; Serial No. 267,319; published Aug. 7, 1928.
Handkerchiefs. L. A. Silk. 248,817; Oct. 30; Serial No. 268,467; published July 31, 1928.
Handkerchiefs, Handmade. Mrs. W. H. Rochester. 248,713; Oct. 30; Serial No. 265,014; published July 31, 1928.
Piece goods. Lesher, Whitman & Co. 248,858; Oct. 30; Serial No. 269,126; published Aug. 14, 1928.
Sheets and pillowcases, Cotton. Grande Maison de Blanc, Inc. 248,746; Oct. 30; Serial No. 268,092; published July 31, 1928.
Silk and rayon piece goods and mixtures thereof. Duplan Silk Corporation. 248,859; Oct. 30; Serial No. 269,103; published Aug. 14, 1928
Silk, cotton and wool piece goods. Haas Brothers Fabrics Corporation. 248,670; Oct. 30; Serial No. 264,300; published Aug. 14, 1928
Silk, cotton, and wool piece goods. Haas Brothers Fabrics Corporation. 248,812; Oct. 30; Serial No. 268,691; published Aug. 7, 1928
Silk piece goods. Coudurier, Fructus & Descher. 248,654; Oct. 30; Serial No. 263,587; published Aug. 14, 1928.
Silk piece goods. Ostrow Reiman Silk Corporation. 248,712; Oct. 30; Serial No. 265,288; published Aug. 14, 1928
Silk piece goods. Willard, Colbert & Giles. 248,808; Oct. 30; Serial No. 268,724; published Aug. 7, 1928
Silks in the piece. Capitol Silk Corporation. 248,860; Oct. 30; Serial No. 268,846; published Aug. 7, 1928
Textile and pile fabrics. Cheney Brothers. 248,832; Oct. 30; Serial No. 268,350; published July 31, 1928.
Textile fabrics. Hollins Leonard Company. 248,748; Oct. 30; Serial No. 268,226; published July 31, 1928.

Tulles, muslins, crapes, and silks. Perret, Gros & Million. 72,821; renewed Feb. 23, 1929.
Woolen and worsted goods and combinations thereof in the piece. Allen R. Mitchell & Son. 248,819; Oct. 30; Serial No. 268,457; published Aug. 14, 1928.
Woolen and worsted goods and combinations thereof in the piece. Allen R. Mitchell & Son. 248,857; Oct. 30; Serial No. 269,132; published Aug. 14, 1928.

CLASS 43.

Yarns and threads. Z. B. Yarn Mills. 248,862–3; Oct. 30; Serial Nos. 269,044–5; published Aug. 14, 1928.
Yarns, threads, and filaments, Cellulose-acetate. Du Pont Rayon Company. 248,833–4; Oct. 30; Serial Nos. 268,276–7; published Aug. 7, 1928.

CLASS 44.

Rubber goods. Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft. 71,337; renewed Nov. 17, 1928.
Surgical goods and medicine chests. Daimler-Motoren-Gesellschaft. 71,330; renewed Nov. 17, 1928.

CLASS 45.

Beverages. P. De La Montanya. 248,757; Oct. 30; Serial No. 269,099; published Aug. 21, 1928.
Ginger ale. George W. Simmons Corporation. 248,764; Oct. 30; Serial No. 268,395; published Aug. 21, 1928.

CLASS 46.

Bouillon cubes, beef extract, canned beef, etc. Libby, McNeill & Libby. 248,737; Oct. 30; Serial No. 254,854; published Aug. 7, 1928.
Cereal products. E. Steen & Bro. 248,790; Oct. 30; Serial No. 267,149; published Aug. 14, 1928.
Cheese, Imported Camembert. Phenix Cheese Co. 72,669; renewed Feb. 9, 1929.
Cheese product. Kraft Cheese Company. 248,716; Oct. 30; Serial No. 258,693; published Jan. 31, 1928.
Coffee. Roanoke Coffee & Spice Co. Inc. 71,168; renewed Nov. 3, 1928.
Corn meal and wheat flour. John W. Eshelman & Sons. 248,851; Oct. 30; Serial No. 259,541; published Aug. 14, 1928.
Cornstarch, jellies, butter, lard etc. C. W. Pershall & Sons. 248,727; Oct. 30; Serial 248,718; published Aug. 30, 1927.
Fish, Salted. Sylvanus Smith & Co., Inc. 72,505–6; renewed Jan. 26, 1929.
Flour, Wheat. Philip H. Postel Milling Company. 72,803–5; renewed Feb. 23, 1929.
Food, Dog. Old Trusty Dog Food Company. 248,776; Oct. 30; Serial No. 267,448; published Aug. 14, 1928.
Fruits and vegetables, Hermetically-sealed. Griffin & Skelley Co. 72,023; renewed Dec. 29, 1928.
Limestone used for chicken feed. Western Lime Stone Products Company. 248,874; Oct. 30.
Milk food. Joseph Nathan & Co. 71,816; renewed Dec. 15, 1928.
Oranges and lemons. Randolph Fruit Company. 72,389; renewed Jan. 19, 1929.
Rice flakes. Standard Rice Company. 248,685; Oct. 30. Serial No. 266,504; published Aug. 14, 1928.
Spices. D. & L. Saide Co. 72,582; renewed Feb. 2, 1929.
Syrup, Malt. L. Reine. 248,878; Oct. 30.
Toast. H. G. Cubbison. 248,871; Oct. 30; Serial No. 262,065; published June 5, 1928.

CLASS 49.

Whiskey, Straight rye. Sherwood Distilling & Distributing Company. 263,673; Oct. 30; Serial No. 248,870; published July 3, 1928.

ALPHABETICAL LIST OF LABELS.

Berkshire Footwear Corp. For Boxes. Hoague-Sprague Corporation. 34,862; Oct. 30.
Blends with Friends, Cliquot Club, Sec, Ginger Ale Supreme. For Ginger Ale. Cliquot Club Company. 34,855; Oct. 30.
Butler's Radiant Filled Morsels. For Candy. Butler Candies, Inc. 34,854; Oct. 30.
Chaffless Fresh Roasted Steel Cut Coffee. For Coffee. G. L. Neff. 34,893; Oct. 30.
Dannenberg's. For Boxes. Hoague-Sprague Corporation. 34,877; Oct. 30.
Dorris & Levy. For Boxes. Hoague-Sprague Corporation. 34,866; Oct. 30.
Duchess Footwear of Fashion. For Boxes. Hoague-Sprague Corporation. 34,867; Oct. 30.
Eagle. For Malt Extract. M. A. Kennan & Sons. 34,885; Oct. 30.
Eastside. For Malt Syrup. Los Angeles Brewing Co. 34,889; Oct. 30.
Eastside. For Pure Malt Syrup (Light). Los Angeles Brewing Co. 34,890; Oct. 30
Export Quality. For Fresh Apples. Haskell & Burns. 34,859; Oct. 30.
G. A. Coleman Co. Incorporated. For Boxes. Hoague-Sprague Corporation. 34,864; Oct. 30.
Golden's Bootery. For Boxes. Hoague-Sprague Corporation. 34,865; Oct. 30.
Good Taste. For Fresh Apples. Haskell & Burns. 34,858; Oct. 30.
Hammersmith's. For Boxes. Hoague-Sprague Corporation. 34,878; Oct. 30.
Home Made Bread. For Bread. Kalamazoo Vegetable Parchment Co. 34,884; Oct. 30.
It-Will Polish. For Polish for Automobiles. L. A. Lemay. 34,888; Oct. 30.
J. Bacon & Sons. For Boxes. Hoague-Sprague Corporation. 34,861; Oct. 30.
Lax-Krax. For Dr. Hollie's Lax Krax Wafers. Dr. J. T. Hollie. 34,883; Oct. 30.
Malthop. For Malt Extract. M. A. Keenan & Sons. 34,886; Oct. 30.
May Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,879; Oct. 30.
McBryde Boot Shop. For Boxes. Hoague-Sprague Corporation. 34,876; Oct. 30.
Meyer Greentree. For Boxes. Hoague-Sprague Corporation. 34,868; Oct. 30.
Mitchell's Divolo. For Dog Remedy. J. J. Mitchell. 34,891; Oct. 30.
Monkey's Lunch. For Peanuts. R. L. Parker. 34,894; Oct. 30.
Noble Caffé. For Coffee. G. L. Neff. 34,892; Oct. 30.
Reeves Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,870; Oct. 30.
Robbert's Lemon Bleach Lotion. For White Imported Oil of Lemon and Tragacanth Jelly Lotion. (Mrs.) J. Robbert. 34,896; Oct. 30.
Santiseptic. For Antiseptic Lotions. Esbencott Laboratories. 34,856; Oct. 30.
Shoes to be Proud of. For Boxes. Hoague-Sprague Corporation. 34,871; Oct. 30.
Stanup. For Shoulder Brace. L. A. Fritsch. 34,857; Oct. 30.
Sterling. For Boxes. Hoague-Sprague Corporation. 34,860; Oct. 30.
Sterling. For Boxes. Hoague-Sprague Corporation. 34,872; Oct. 30.
Tastit Tosted. For Bread. Lancaster Inc. 34,887; Oct. 30.
The Boston Store. For Boxes. Hoague-Sprague Corporation. 34,863; Oct. 30.
The Mirror. For Boxes. Hoague-Sprague Corporation. 34,880; Oct. 30.
The New Levite's. For Boxes. Hoague-Sprague Corporation. 34,869; Oct. 30.
The Strouss-Hirshberg Co. For Boxes. Hoague-Sprague Corporation. 34,881; Oct. 30.
The Traveler Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,874; Oct. 30.
Tober's Shoe Store. For Boxes. Hoague-Sprague Corporation. 34,882; Oct 30.
Tosk's Shoe Shop. For Boxes. Hoague-Sprague Corporation. 34,873; Oct 30.
Toyo Shoyu. For Table Sauce. Toyo Sauce Manufacturing Company. 34,897; Oct. 30.
Val-U-Lac Value in Lacquers. For Industrial Lacquers and Thinners. Pierce & Stevens, Inc. 34,895; Oct. 30.
Wulff Shoe Co. For Boxes. Hoague-Sprague Corporation. 34,875; Oct. 30.

ALPHABETICAL LIST OF PRINTS.

Harva Combs for Men. For Combs. Julius Schmid, Inc. 11,305; Oct. 30.
Harva Pocket Combs. For Combs. Julius Schmid, Inc. 11,306; Oct. 30.
New Enthusiasm in the Classroom with this Plan. For Wheat Breakfast Food. Cream of Wheat Co. 11,302; Oct. 30.
Poultry Calendar. For Poultry Remedies. G. E. Conkey Company. 11,303; Oct. 30.
Shaggy-Tex. The Versatile Coat for Town and Country. For Ladies' Coats. Shaggy-Tex, Inc. 11,307; Oct. 30.
The Legend of the King and the Dervish. For Gold Toilette Set. Black, Starr & Frost. 11,301; Oct. 30.
Thick, Meltingly Tender Steaks . . . Fried Oysters . . . For Tomato Ketchup. H. J. Heinz Company. 11,304; Oct. 30.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,689,905; Oct. 30.

Abel, Virgil L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Cage for roller bearings. 1,689,514; Oct. 30.

Abramson, Hugo. (See Eskilson, S. A., and Abramson.)

Abromaitis, Stanley J. (See Vrahoritis, John S., assignor.)

Absmeier, Carl. (See Brookby, H. E., and Absmeier.)

Adams, Harry L., Elvins, Mo. Gasoline engine. 1,689,576; Oct. 30.

Adams, Roger, and J. F. Hyde, Urbana, Ill. Organic solvent. 1,689,762; Oct. 30.

Adams, Roger, and J. F. Hyde, Urbana, Ill., assignors to The Newport Company, Carrollville, Wis. Cyclohexylalkyl-phthalic esters. 1,689,761; Oct. 30.

Adams, Thomas O. (See Wise, W. J., and Adams.)

Adelman, Arthur, Chesaning, Mich. Bore safety device for fuses. 1,689,470; Oct. 30.

Advance-Rumely Company. (See Worthington, Wayne H., assignor.)

Aichinger, Fred, Cleveland, and J. J. Kopacka, East Cleveland, Ohio. Bottle. Des. 76,731; Oct. 30.

Aktiebolaget Svenska Kullagerfabriken. (See Helmstein, Lars G. H., assignor.)

Aktiebolaget Svenska Kullagerfabriken. (See Olsson, Nils J., assignor.)

Alabama Power Company. (See Nichols, Mark L., assignor.)

Albee, William H., and A. G. Davis, assignors to Koehler Manufacturing Company, Marlboro, Mass. Cleat-trimming machine. 1,689,219; Oct. 30.

Albersheim, Walter J., New York, N. Y. Specific-gravity register. 1,689,658; Oct. 30.

Albersheim, Walter J., New York, N. Y. Specific-gravity indicator. 1,689,659; Oct. 30.

Albrecht, Dieter, Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Method and arrangement for comparative alternating-current measurements. 1,689,660; Oct. 30.

Allardt, Hans G. (See Schoeller, W., and Allardt.)

Allen, Frank R., and H. M. Champion, Pine Bluff, Ark. Dump body. 1,690,045; Oct. 30.

Allen, Sherman T., Los Angeles, Calif. Puncture-sealing inner tube. 1,689,907; Oct. 30.

Alox Chemical Corporation. (See Burwell, Arthur W., assignor.)

Aluminum Company of America. (See Norton, Allen B., assignor.)

Ament, Lucy C., New York, N. Y. Receptacle. 1,690,046; Oct. 30.

American Can Company. (See Graham, Charles W., assignor.)

American Can Company. (See Gray, James A., assignor.)

American Can Company. (See Magill, Donald G., assignor.)

American Can Company. (See Malmquist, John O., assignor.)

American Can Company. (See Pickles, Charles, assignor.)

American Can Company. (See Walter, George F., assignor.)

American Can Company. (See Young, John M., assignor.)

American Emery Wheel Works. (See Leonard, Walter B., 2d., assignor.)

American Gasaccumulator Company. (See Eskilson, S. A., and Abramson, assignors.)

American Gasaccumulator Company. (See Eskilson, Sven A., assignor.)

American Laundry Machinery Company, The, et al. (See Brockett, Bluford W., assignor.)

American Laundry Machinery Company, The. (See Trotter, C. E., and Couch, assignors.)

American Machine & Foundry Company. (See Bronander, Wilhelm B., assignor.)

American Machine and Foundry Company. (See Farmer, Fred, assignor.)

American Machine & Foundry Company. (See Gwinn, George W., assignor.)

American Machine & Foundry Company. (See Hawkins, Wilford J., assignor.)

American Machine & Foundry Company. (See Quick, Brunnie W., assignor.)

American Magnesium Corporation. (See Jeffries, Z., and Archer, assignors.)

American Piano Company. (See Stoddard, Charles F., assignor.)

American Rolling Mill Company, The. (See Tytus, John B., assignor.)

American Steel Products Co. (See Landgraf, Jacob T., assignor.)

American Steel Foundries. (See Whitney, Loren L., assignor.)

American Stove Company. (See Meacham, Benjamin E., assignor.)

American Telephone and Telegraph Company. (See Christopher, Harry J., assignor.)

American Telephone and Telegraph Company. (See Vernam, Gilbert S., assignor.)

American Telephone and Telegraph Company. (See Weaver, Allan, assignor.)

American Type Founders Company. (See Hall, Walter O., assignor.)

American Type Founders Company. (See Kelly, William M., assignor.)

American Welding and Manufacturing Company, The. (See Klaus, Fred R., assignor.)

American Window Company. (See Lewis, Claude A., assignor.)

Amrock, John S. (See Wallis, C. L., and Amrock.)

Ams, Max, Machine Company, The. (See Lange, Paul H., assignor.)

Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing-circuit-breaker system. 1,689,515; Oct. 30.

Anderson, John P. (See Schmohl, A. C., and Anderson.)

Anderson, Martin E., De Kalb, Ill. Fence-post anchor. 1,689,316; Oct. 30.

Anderson, Swan F., Rockford, assignor, by mesne assignments, to Peerless Pneumatic Systems, Inc., Chicago, Ill. Spray gun. 1,689,848; Oct. 30.

Andrews, Chester E. (See Cannon, F. A., and Andrews.)

Andrusis, John A., Brooklyn, N. Y. Illuminated mirror, album, and clock. 1,689,471; Oct. 30.

Anschell, Sidney C., Chicago, Ill., assignor to The Folly Town Company. Display box. 1,689,763; Oct. 30.

Apco Mossberg Corporation. (See Perkins, Clarence B., assignor.)

Archer, Robert S. (See Jeffries, Z., and Archer.)

Armbruster, Fred C., Shreveport, La., assignor to The Southwestern Pipe Joint & Engineering Co., Birmingham, Ala. Joint construction. 1,690,047; Oct. 30.

Arnold, Carl, Nuremberg, Germany. Spark-producing toy with changing colors. 1,689,220; Oct. 30.

Arnold, John W. (See Hunter, S. R., and Arnold.)

Arpin, Edmund P., jr., Fort Edwards, Wis. Rotary refiner. 1,689,190; Oct. 30.

Arrow Electric Company, The. (See Carlson, Johannes R., assignor.)

Arrow Electric Company, The. (See Nero, Arvid H., assignor.)

Ashridge, Harry H., Ashton-on-Mersey, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England. Grinding of gear-wheel teeth. 1,689,274; Oct. 30.

Ashe, William O., assignor to Nathan Manufacturing Company, New York, N. Y. Water column. 1,689,191; Oct. 30.

Ashton, Richard A., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y. Tailstock for lathes. 1,689,709; Oct. 30.

Ashton, Richard A., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y. Multple tool slide for machine tools. 1,689,710; Oct. 30.

Ashton, Richard A., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y. Multiple tool slide for machine tools. 1,689,711; Oct. 30.

Aspinwall, Louis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,689,849; Oct. 30.

Astle, William, Brooklyn, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. 1,689,221; Oct. 30.

Astola, Elmer, Deep River, Wash. Agricultural machine. 1,689,192; Oct. 30.

Atlas Powder Company. (See Long, Ralph A., assignor.)

Atwater Kent Manufacturing Company. (See Kingsford, R. T., and Richter, assignors.)

Austin, Walter S., Grand Rapids, Mich. Two-speed axle-gearing construction. 1,689,377; Oct. 30.

Auto Cradle Company, The. (See Holcombe, J. R., and Dunbar, assignors.)

Automatic Advertiser, Incorporated, The. (See Proctor, Barton A., assignor.)

Automatic Electric Inc. (See Hudd, Alfred E., assignor.)

Automatic Electric Inc. (See Pye, Harold C., assignor.)

Automatic Straight Air Brake Company. (See Astle, William, assignor.)
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can-filling machine. 1,689,661; Oct. 30.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
B-S Manufacturing Corporation. (See Stern, C., and Carlock assignors.)
Backer, Christian B., New York, N. Y. Terminal for electric heating units. 1,689,850; Oct. 30.
Baird Machine Company, The. (See Lewis, Arthur J., assignor.)
Bakken, Andrew H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,689,851; Oct. 30.
Balirky, Abraham, assignor to Everlasting Furniture Brace Co., Chicago, Ill. Furniture brace. 1,689,222; Oct. 30.
Banbury, Fernley H., assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Rubber-mixing machine. 1,689,990; Oct. 30.
Barber, Edmund, Troy, and N. Ingraham, Athol, N. Y. Dirigible headlight. 1,689,712; Oct. 30.
Barber, Herbert. (See Tate, H. E., King, and Barber.)
Barker, Theodore E. (See Skaer, A. H., Barker, and Clark.)
Barnes, John A., Chappaqua, assignor to The Superheater Company, New York, N. Y. Superheater. 1,689,317; Oct. 30.
Barrows, Allan S., Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Metallic car door. 1,689,472; Oct. 30.
Baruch, George J., assignor to Kaufman & Oberfelder, Inc., New York, N. Y. Fur scarf. 1,689,908; Oct. 30.
Bassick Manufacturing Company, The. (See Davis, Ernest W., assignor.)
Bassick Manufacturing Company, The. (See Zerk, Oscar L., assignor.)
Bast, Frank J., and R. M. Wilhelm, Brooklyn, assignors to Charles J. Tagliabue Mfg. Co., New York, N. Y. Automatic controller. 1,689,764; Oct. 30.
Batcheller, Hugh W., Marion, Ind., assignor to Bejac Manufacturing Co., Inc., Winooski, Vt. Electrical switch. 1,689,852; Oct. 30.
Baum, Kenneth M., San Francisco, Calif. Separating sulphur from other materials. 1,689,545; Oct. 30.
Bauschard, John H., Erie, Pa. Head-spacing device. 1,689,273; Oct. 30.
Baxter, Kenneth S., assignor to Sheet Steel Products Company, Michigan City, Ind. Cab for trucks. 1,689,765; Oct. 30.
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Cleansing-fluid-conveying tube for rock drills. 1,689,275; Oct. 30.
Beaty, Walter E. (See Healey, F. R., and Beaty.)
Becket, Frederick M., New York, N. Y., assignor to Oxweld Acetylene Company. Welding rod. 1,689,577; Oct. 30.
Beckwith, Harry H. (See Jennings, Melvin O., assignor.)
Beede, Walter E., Penacook, N. H. Tube-socket meter. 1,689,853; Oct. 30.
Bell, Frank B., and O. R. Wikander, assignors to Edgewater Steel Company, Pittsburgh, Pa. Cushioning or shock-absorbing device. 1,689,662; Oct. 30.
Bell Telephone Laboratories, Incorporated. (See Björnson, Björn G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Curtis, Austen M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hinrichsen, Edward E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Korn, Franklin A., assignor.)
Bellies and Morcom Limited. (See Jude, Alexander, assignor.)
Bendix Brake Company. (See Bendix, Vincent, assignor.)
Bendix Brake Company. (See Bendix, V., and Dodge, assignors.)
Bendix Brake Company. (See Sanford, Roy S., assignor.)
Bendix Corporation. (See Perrot, Henri, assignor.)
Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Making brakes. 1,689,766; Oct. 30.
Bendix, Vincent, Chicago, Ill., and A. Y. Dodge, South Bend, Ind., assignors to Bendix Brake Company, Chicago, Ill. Duplex brake. 1,689,767; Oct. 30.
Benlen, Charles W., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Journal box. 1,689,854; Oct. 30.
Bentley, John H., Misterton, England. Rotary kiln and furnace. 1,690,048; Oct. 30.
Benton, Dr. John B. (See Hughes, Arthur S., assignor.)
Benz, Ferdinand F., Hamburg, Germany. Rapid freezer. 1,689,578; Oct. 30.
Bergfalk, Joseph E. and S. A., New York, N. Y. Metal weather strip. 1,689,813; Oct. 30.
Bergfalk, Sven A. (See Bergfalk, Joseph E. and S. A.)
Berry, Alfred M., Belrose, assignor, to Intertype Corporation, New York, N. Y. Elevator for typographical machines. 1,689,991; Oct. 30.
Bethlehem Steel Company. (See Stevens, Richard H., assignor.)
Bersch, Willi, assignor to the firm Landis & Gyr A.-G., Zug, Switzerland. Electricity meter. 1,689,992; Oct. 30.
Bing, Julius, assignor to Magnet-Werk G. m. b. H. Eisenach, Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Electromagnetic chuck. 1,689,616; Oct. 20
Bird, George W., Great Falls, Mont. Steering gear for automobiles. 1,690,049; Oct. 30
Bishop, James A., deceased, Mascoutah, Ill.; L. H. Bishop, administratrix. Radio receiving apparatus. 1,689,224; Oct. 30
Bishop, Lulu H., administratrix. (See Bishop, James A.)
Bissell, Richard E., Cleveland Heights, assignor to Thompson Products, Inc., Cleveland, Ohio. Transmission mechanism. 1,689,193; Oct. 30.
Björnson, Björn G., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Repeater circuits. 1,689,318; Oct. 30
Black and Decker Manufacturing Company, The. (See Stumpf, Walter, assignor.)
Blair, Edward M., Thomasville, assignor of one-half to H. H. Foust, High Point, N. C. Safety attachment for journal boxes. 1,690,050; Oct. 30.
Bland, Austin G. (See Weatherly, Wilson E., assignor.)
Bliss, Elmer F., Schenectady, N. Y., assignor to General Electric Company. Remote-control system. 1,689,516; Oct. 20
Blue, Charles J. (See Sandin, Arthur L., assignor.)
Board, Ernest E., White Lake, S. Dak. Puncturproof composition for pneumatic tires. 1,690,051; Oct. 30.
Bohn Aluminum & Brass Corporation. (See Britt, Fred, assignor.)
Bojac Manufacturing Co. (See Batcheller, Hugh W., assignor.)
Boltz, Fred S., Mansfield, Mass. Soil water catch basin and heat reclaimer. 1,689,993; Oct. 30
Bonner Charter Corporation. (See Bonner, Clarence E., assignor.)
Bonner, Clarence E., New York, N. Y., assignor, by mesne assignments, to Bonner-Charter Corporation, Dover, Del. Lubricating means. 1,689,319; Oct. 30.
Borden Company, The. (See McClatchie, John M., assignor.)
Borden Company, The. (See Taylor, Burt E., assignor.)
Borden Company, The. (See Young, J. H., and Frink, assignors.)
Bornstein, Joseph, assignor to Sombco, Inc., Boston, Mass. Windshield wiper. 1,689,617; Oct. 30
Bott Wister P., assignor of three-fourths to F. C. McClanahan, Homer, La. Display case. 1,689,718; Oct. 30.
Boucher Cork Company. (See Grupe, William F., assignor.)
Bowman, George H., Company, The. (See Fisher, Robert E., assignor.)
Boyd, Truman O., et al. (See Ross, Warren A., assignor.)
Brace, Porter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic element. 1,689,814; Oct. 30.
Bradbury, George E., Chicago, Ill. Building and construction. 1,689,320; Oct. 30
Brainard, Lewis J. (See Sykes, Charles J., assignor.)
Brannstrom, Gustaf V., and V. J. Carlson, Chicago, Ill. Brush. 1,689,517; Oct. 30.
Breidt, Jakob, Port Washington, N. Y. Antitheft alarm. 1,689,909; Oct. 30.
Breitenbach, Peter, Bochum, Germany. Striping brush. 1,689,855; Oct. 30.
Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Self-opening die head. 1,689,768; Oct. 30.
Breit, Jules J., New York, N. Y. Scouring device. 1,689,769; Oct. 30.
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Briley, Benjamin F., Shattuck, Okla. Workbench-vise screw. 1,689,770; Oct. 30
Britt, Fred, assignor, by mesne assignments, to Bohn Aluminum & Brass Corporation, Detroit, Mich. Valve. 1,689,321; Oct. 30
Britton, Jim, Bessemer, Ala. Portable shoe shop. 1,689,771; Oct. 30.
Broadhurst, Frank S., Watertown, Mass. Rotary heat exchanger. 1,689,189; Oct. 30.
Brockett, Bluford W., Cleveland Heights, assignor of one-half to The American Laundry Machinery Company, Norwood, Ohio, and one-half to United States Hoffman Machinery Corporation, New York, N. Y. Pressing machine. 1,689,473; Oct. 30.
Brocklebank, Arthur P., Elizabeth, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Heat exchanger. 1,689,910; Oct. 30
Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Tractor. 1,689,546; Oct. 30.
Bronander, Wilhelm B., Montclair, N. J., assignor to American Machine & Foundry Company. Valveless pump or compressor. 1,689,419; Oct. 30.
Brooks, Harry E., Evanston, Ill., and C. Absmeier, Grand Rapids, Mich., assignors to United States Gypsum Company, Chicago, Ill. Apparatus for making plaster wall board. 1,689,322; Oct. 30
Brookman, John H., Cedar Rapids, Iowa. Lifting device for vehicle wheels. 1,689,772; Oct. 30.
Brookman, John H., Cedar Rapids, Iowa. Lifting device for vehicle wheels. 1,689,773; Oct. 30.
Brookman, John H., Cedar Rapids, Iowa. Lifting device for vehicle wheels. 1,689,774; Oct. 30.

Brooks, Stephen H., assignor to The Oil Conservation Engineering Company, Cleveland, Ohio. Liquid-level indicator. 1,689,941; Oct. 30.
Broughton, Berlin A., Cleveland Heights, assignor to Delta Engineering Laboratories, Inc., Cleveland, Ohio. Automobile head lamp. 1,689,378; Oct. 20.
Broughton, Berlin A., Cleveland Heights, assignor to Delta Engineering Laboratories, Inc., Cleveland, Ohio. Lens for automobile headlights. 1,689,911; Oct. 30.
Brown Company. (See Parker, Howard, assignor.)
Brown Company. (See Richter, George A., assignor.)
Brown, Herbert D., Schenectady, N. Y., assignor to General Electric Company. Rectifying system. 1,689,518; Oct. 30.
Brown, James F., Shaler Township, Allegheny County, Pa. Saw. 1,689,618; Oct. 30.
Brown, James H., Hopkinton, Mass., assignor to Brown Lock Nut Company, Lock nut. 1,689,225; Oct. 30.
Brown, James M., deceased, Pittsburgh, Pa.; J. D. Brown, administratrix. Clutch device. 1,689,857; Oct. 30.
Brown, Jane D., administratrix. (See Brown, James M.)
Brown, John W., Manufacturing Company, The. (See Jording, Christian H., assignor.)
Brown Lock Nut Company. (See Brown, James H., assignor.)
Brown, Raymond L., assignor to The New Departure Manufacturing Company, Bristol, Conn. Bearing mounting. 1,689,876; Oct. 30.
Brown, Walter, Toledo, Ohio. Cutting tool for lathes, planers etc. 1,689,474; Oct. 30.
Brown, Wilfred J., New York, N. Y. Combination pipe cleaner. 1,689,226; Oct. 30.
Brumder, William C., Milwaukee, Wis. Putting game. 1,689,475; Oct. 30.
Brumder, William C., Milwaukee, Wis. Ball-returning golf apparatus. 1,689,476; Oct. 30.
Bryant, Frank W., West Lafayette, Ind., assignor to The Phi Kappa Tau Fraternity, Indianapolis, Ind. Fraternity badge. Des. 76,732; Oct. 30.
Buck, Nelson E., D. W. Roper, and A. P. Thoms, Chicago, Ill. Cable joint. 1,689,323; Oct. 30.
Buck, Nelson E., D. W. Roper, and A. P. Thoms, Chicago, Ill. Cable joint. 1,689,420. Oct. 30.
Buckley, Oliver E., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacture of continuously-loaded electrical conductors. 1,689,324; Oct. 30.
Budd Wheel Company. (See Furbush, Richard, assignor.)
Bunker, Charles A., assignor to H. P. Comstock, Kansas City, Mo. Can-capping machine. 1,689,815; Oct. 30.
Burks, Arthur W., Decatur, Ill. Rotary pump. 1,689,579; Oct. 30.
Burnet, Samuel F., assignor to Laclede-Christy Clay Products Co., St. Louis, Mo. Arch-nose construction. 1,690,088; Oct. 30.
Burnham Chemical Company. (See Gauger, A. W., and Storch, assignors.)
Burnham, George A., Saugus, assignor, by mesne assignments to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,689,421; Oct. 30.
Burns, Arthur H., Penn Yan, N. Y. Oar. 1,689,714; Oct. 30.
Burns, Charles St. C., assignor of one-half to F. Kay, Port Arthur, Tex. Cleaner for filtering elements. 1,689,277; Oct. 30.
Burrell, William C., Kankakee, Ill. Seat-signal system. 1,689,227; Oct. 30.
Burton, Belma, New York, N. Y. Educational appliance. 1,689,422; Oct. 30.
Burwell, Arthur W., Niagara Falls, assignor to Alex Chemical Corporation, New York, N. Y. Production of hydrogen of great purity. 1,689,858; Oct. 30.
Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train-control system. 1,689,228; Oct. 30.
Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,689,229; Oct. 30.
Byrd, Britton E., assignor to Mill Devices Company, Inc., Gastonia, N. C. Tape fastener. 1,689,859; Oct. 30.
Byrne, Charles E., Chicago, Ill. Piano case. Des. 76,733; Oct. 30
Callis, Conrad C. (See Kraus, C. A., and Callis.)
Callister, Lee O., assignor of one-half to A. W. Doyle, Sheridan, Wyo. Electric safety device for automobiles. 1,689,715; Oct. 30.
Cameo Refrigerator Corporation. (See Covell, Ernest G., assignor.)
Canon, Frank A., and C. E. Andrews, assignors to The Selden Company, Pittsburgh, Pa. Producing phthalic anhydride. 1,689,860; Oct. 30.
Capers, Charles E. (See Capers, Isaac L., assignor.)
Capers, Isaac L., Eastland, assignor to C. E. Capers, Amarillo, Tex. Air trap for pipe lines. 1,689,477; Oct. 30.
Carey, Philip, Manufacturing Company, The. (See Crabbs, George D., assignor.)
Carey, Philip, Manufacturing Company, The. (See Mills, George W., jr., assignor.)
Carey, Philip, Manufacturing Company, The. (See Rogers, Homer L., assignor.)
Carlock, James J. (See Stern, C., and Carlock.)
Carlson, Johannes R., assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,690,052; Oct. 30.
Carlson, Vernier J. (See Brannstrom, G. V., and Carlson.)
Carothers, John N., Anniston, assignor to Federal Phosphorus Company, Birmingham, Ala. Making tri-sodium phosphate. 1,689,547; Oct. 30.
Carr Fastener Company. (See Pierce, Walter H., assignor.)
Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Bearing and seal for same. 1,689,912; Oct. 30.
Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Multiple flywheel. 1,689,913; Oct. 30.
Carrey-Morse Engineering Company. (See Carrey, John O., assignor.)
Carter, Donald M., et al. (See Ross, Warren A., assignor.)
Case, Francis M., Cleveland Heights, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,689,914; Oct. 30.
Case, J. I., Threshing Machine Company. (See MacGregor, Wallace F., assignor.)
Casey, William, Kingston, Ontario, Canada. Locomotive stop valve. 1,689,325; Oct. 30.
Caulkins, Cecil P., New Lordon, Conn., assignor to General Ordnance Corporation, New York, N. Y. Agricultural machine. 1,689,816; Oct. 30.
Celanese Corporation of America. (See Dreyfus, C., and Platt, assignors.)
Central Scientific Company. (See Kincaid, Joseph H., assignor.)
Chain Products Company, The. (See Edeburn, Alfred N., assignor.)
Champion, Henry M. (See Allen, F. R., and Champion.)
Chandler, Wallace L., East Lansing, Mich. Calcicated iodine and preparing same. 1,689,775; Oct. 30.
Chapin-Stephens Company, The. (See Vogel, Paul H., assignor.)
Charlton, Richard C., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Level. 1,690,053; Oct. 30.
Charlton, Richard C., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Saw handle. 1,690,054; Oct. 30.
Chayes Dental Instrument Corporation. (See Chayes, Herman E. S., assignor.)
Chayes, Herman E. S., assignor to Chayes Dental Instrument Corporation, New York, N. Y. Attachment for dental bridgework. 1,689,478; Oct. 30.
Chemische Fabrik auf Actien (vorm. E. Schering). (See Meerwein, Hans, assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Stephan, Karl, assignor.)
Chemische Fabrik Pott & Co. (See Sajitz, R., and Pospiech, assignors.)
Cheney Brothers. (See Johnson, John E., assignor.)
Chernow, Joseph I. (See Chernow, Michael and J. I.)
Chernow, Michael, Brooklyn, N. Y. Escutcheon monogram plate. Des. 76,734; Oct. 30.
Chernow, Michael and J. I., Brooklyn, N. Y. Monogram structure. 1,689,619; Oct. 30.
Chevrette, Augustin J., and V. H. Jennings, assignors to Crompton & Knowles Loom Works, Worcester Mass. Weft-replenishing magazine for multishuttle looms. 1,689,716; Oct. 30.
Chicago Pneumatic Tool Company. (See Collins, Anthony H., assignor.)
Chicago Pneumatic Tool Company. (See Stevens, Edward W., assignor.)
Chicago Railway Equipment Company. (See Ekholm, Herbert W., assignor.)
Christopher, Harry J., Westfield, N. J., assignor to American Telephone and Telegraph Company. Locking device for switch keys. 1,689,230; Oct. 30.
Churchill Machine Tool Company Limited, The. (See Asbridge, Harry H., assignor.)
Churchill, McGinnis, Murray, Nebr. Plow. 1,690,055; Oct. 30.
Cincinnati Time Recorder Company, The. (See Yates, James W., assignor.)
Clark, Charles H., New York, N. Y. Flexible coupling. 1,689,861; Oct. 30.
Clark, George A., Elwood, Nebr. Automobile visor. 1,689,548; Oct. 30.
Clark, Lester G., Ferndale, Mich. Crevice molding. 1,689,194; Oct. 30.
Clark Metal Products, Incorporated. (See Lovejoy, Louis H., assignor.)
Clark, Omar E. (See Skaer, A. H., Barker, and Clark.)
Clausen, Sigurd, and C. V. Lindblad, Brooklyn, N. Y., assignors to International Cigar Machinery Company. Filler feed for scrap-bunch-cigar machines. 1,689,423; Oct 30.
Clifford Manufacturing Co. (See Clifford, Walter B., assignor.)
Clifford, Walter B., Framingham, assignor, by mesne assignments, to Clifford Manufacturing Co., Boston, Mass. Apparatus for producing bellows folds in tubing. 1,689,620; Oct. 30.
Clisson, Albert B., assignor to The Prosperity Company Inc., Syracuse, N. Y. Laundry-checking device. 1,689,717; Oct. 30.
Clover, John R., Enid, Okla. Door holder. 1,689,621; Oct 30.
Clover, John R., Enid, Okla. Towel cabinet. 1,689,622; Oct. 30.

Clow, Samuel C. (See Rothgarn, Andrew E., assignor.)
Coke Reclamation Corporation. (See Silverston, Anthony R., assignor.)
Coleman, Melvin V., Cumberland, Md. Renewable filament lamp. 1,690,056; Oct. 30.
Coleman, Paul H., Lynch, Ky. Float ball. 1,690,057; Oct. 30.
Collins, Anthony H., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Tool handle. 1,689,817; Oct. 30.
Collins, George A., Fresno, Calif., assignor to Westinghouse Electric & Manufacturing Company. Reroll device. 1,689,862; Oct. 30.
Collins, Walter B., Bishop, Tex. Stalk cutter and bedder. 1,689,718; Oct. 30.
Colonial Stamping Company. (See Strombach, Julius, assignor.)
Comerford, Eileen, et al. (See Comerford, William, assignor.)
Comerford, Joseph P., et al. (See Comerford, William, assignor.)
Comerford, Mary, et al. (See Comerford, William, assignor.)
Comerford, Minnie J., et al. (See Comerford, William, assignor.)
Comerford, William, assignor of one-fifth to M. J. Comerford, one-fifth to M. Comerford, one-fifth to E. Comerford, and one-fifth to J. P. Comerford, Buffalo, N. Y. Drain valve for automobile crank cases. 1,689,994; Oct. 30.
Commonwealth Steel Company. (See Pflager, Harry M., assignor.)
Comora, Charles, Embroidery Company. (See Hugentobler, Ulrich, assignor.)
Comstock, H. P. (See Bunker, Charles A., assignor.)
Condit Electrical Manufacturing Corporation. (See Burnham, George A., assignor.)
Conklin, Donald V., Alhambra, Calif. Attachable match box. 1,689,479; Oct. 30.
Conly, John A., New York, assignor of 40 per cent to J. A. Rauscher, Hollis, N. Y. Wind box. 1,690,089; Oct. 30.
Connors, William J., San Jose, Calif. Adjustable window sash. 1,689,519; Oct. 30.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Directive antenna system. 1,689,863; Oct. 30.
Conrad, Nicholas J., Wilmette, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse. 1,689,424; Oct. 30.
Consolidated Ashcroft Hancock Company. (See Heise, Otto W., assignor.)
Consolidated Coal and Coke Company, The. (See Weethee, Thomas E., assignor.)
Continental Can Company. (See Fink, Henry A., assignor.)
Cooper, Joseph, New York, N. Y. Latching means for adjustable tables. 1,689,663; Oct. 30.
Cory, Chas., & Son, Incorporated. (See Jones, J. S., and Mead, assignors.)
Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,689,549; Oct. 30.
Couch, Forrest J. (See Trotter, C. E., and Couch.)
Covell, Ernest G., assignor to Cameo Refrigerator Corporation, Los Angeles, Calif. Hinge. 1,689,664; Oct. 30.
Crabbs, George D., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Railroad crossing. 1,689,278; Oct. 30.
Craigie, James, Chicago, Ill. Game. 1,689,326; Oct. 30.
Cramer, Raymond H. (See Henny, J. C., and Cramer.)
Cramp, William P., Philadelphia, Pa. Sliding-door hanger. 1,689,665; Oct. 30.
Crim, Wadsworth & Thiel Auto Theft Alarm Development Company, The. (See Hay, Harry C., assignor.)
Crompton & Knowles Loom Works. (See Chevrette, A. J., and Jennings, assignors.)
Crompton & Knowles Loom Works. (See Hollingworth, Edward, assignor.)
Crompton & Knowles Loom Works. (See Hook, Harry J., assignor.)
Crompton & Knowles Loom Works. (See Robb, Walter Y., assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
Crouse, George B., Woodcliff, N. J., assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Fire-control instrument. 1,689,327; Oct. 30.
Curtis, Austen M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine telegraph system. 1,689,328; Oct. 30.
Cutler-Hammer Mfg. Co., The. (See Meuer, George J., assignor.)
Daddio, Pasquale, New York, N. Y. Vacuum cleaner. 1,689,380; Oct. 30.
Danco, Leon A., Rockville Center, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Tray or similar article. Des. 76,735; Oct. 30.
Dargavel, James B., St. Paul, Minn. Schedule indicator. 1,689,818; Oct. 30.
Darlington, George W., San Pedro, Calif. Polish. 1,689,864; Oct. 30.
Darrah, William A., Chicago, Ill. Apparatus for heat application. 1,689,379; Oct. 30.
Davidson, Glenn. (See Laucks, I. F., and Davidson.)
Davis, Arthur G. (See Albee, W. H., and Davis.)
Davis, Augustine, jr., Cincinnati, Ohio. End structure for tanks. 1,689,329; Oct. 30.
Davis, David C., Chester, Pa., assignor to Westinghouse Electric and Manufacturing Company. Thrust-collar equalization. 1,689,195; Oct. 30.
Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,690,058; Oct. 30.
Davis, Henry F., and J. D. Reid, Honolulu, Hawaii. Game indicator. 1,689,805; Oct. 30.
Davis, John H., Chicago, Ill., assignor to C. O. Hadley, Philadelphia, Pa. Check-perforating machine. 1,689,995; Oct. 30.
Davis, Kenneth, assignor to R., R., and R. Peale, jr., trustees, St. Benedict, Pa. Cable-driving mechanism. 1,689,996; Oct. 30.
Davis, Pearl C. (See Seymour, Clarence E. and J. D., and Davis.)
Davis, R. B., Company. (See Thornton, Ernest W., assignor.)
Dawley, Clarence A., Plainfield, N. J. Flow meter. 1,679,776; Oct. 30.
Day, Morgan R., assignor Rubber Latex Research Corporation, Boston, Mass. Stabilized latex and producing same. 1,689,581; Oct. 30.
Dean, William E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-indicating device. 1,689,231; Oct. 30.
De Bary, Erwin G., Amsterdam and Kottach-Tegernsee, Germany. Game instrument for poker and similar card games. 1,689,280; Oct. 30.
Decelle, Fred, Nashua, N. H. Ventilator. 1,689,425; Oct. 30.
Defibaugh, Mark A., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Mechanical clothes washer. 1,689,281; Oct. 30.
De Fremery, Frank. (See Scruby, S. V. C., Turkhud, and de Fremery.)
De la Bourdonnais, Charles M. de C., Loventor Manor, near Totnes, England. Loud speaker, gramophone, and other sound recording or reproducing apparatus. 1,689,997; Oct. 30.
Delle, Bernhard E., Brooklyn, N. Y. Bushing puller. 1,689,330; Oct. 30.
Delta Engineering Laboratories, Inc. (See Broughton, Berlin A., assignor.)
Deppé, William P., Brightwaters, N. Y. Superheat system for internal-combustion engines. 1,689,942; Oct. 30.
Despard, Victor R., assignor to McGill Manufacturing Company, Valparaiso, Ind. Electrical fixture with convenience outlet. 1,689,232; Oct. 30.
Dexter Folder Company. (See Rader, Earl D., assignor.)
Dow, Albert M., El Paso, Tex. Tank-car valve. 1,689,998; Oct. 30.
Dibble, Claude M. (See Moore, L., and Dibble.)
Dick, Arthur, and J. A. Dirschauer, Evansville, Ind. Agricultural machine. 1,689,550; Oct. 30.
Dickinson, Paul, Incorporated. (See Filkins, Arthur J., assignor.)
Dickson, Adrian J. (See Dickson, Frank H., F. F., and A. J.)
Dickson, Francis F. (See Dickson, Frank H., F. F., and A. J.)
Dickson, Frank H., F. F., and A. J., Auburn, N. Y. Roundabout. 1,689,520; Oct. 30.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 76,736; Oct. 30.
Dirschauer, Jacob A. (See Dick, A., and Dirschauer.)
Disston, Henry, & Sons, Incorporated. (See Charlton, Richard C., assignor.)
Disibio, Angelo, Pittsburgh, Calif. Quick-adjustment clamp. 1,689,331; Oct. 30.
Dodge, Adiel Y. (See Bendix, V., and Dodge.)
D'Oller, Henry, jr., Bridgeport, Conn. Combination hook and loop. 1,689,943; Oct. 30.
Dominguez, Manuel D., New Orleans, La. Water heater. 1,689,521; Oct. 30.
Dongan Electric Manufacturing Company. (See Osborne, Robert L., assignor.)
Do moy, Jean Leviniola-Perret, France. Spraying device. 1,689,279; Oct. 30.
Douglass, Agnes, Plattesville, assignor to Waite Carpet Company, Oshkosh Wis. Rug. Des. 76,738; Oct. 30.
Doyle, Arthur W. (See Callister, Lee O., assignor.)
Drake, Alden M., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Guard casing for grinding machines and support therefor. 1,689,719; Oct. 30.
Dreyfus, Camille, New York, N. Y., and H. Platt, Cumberland, Md., assignors to Celanese Corporation of America. Differential colored fabric and making same. 1,689,426; Oct. 30.
Dunbar, Francis F. (See Holcombe, J. R., and Dunbar.)
Dunkelsberg, Louis, Brooklyn, N. Y. Spectacle temple. Des. 76,739; Oct. 30.
Dunlap Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Machine for making paper cones. 1,689,427; Oct. 30.
Dunn, John S., Philadelphia, Pa. Pouring ladle. 1,689,196; Oct. 30.
Duresen, Andrew, Minneapolis, Minn. Motor vehicle. 1,689,582; Oct. 30.

Dym, Jacob, assignor to Porcelier Manufacturing Company, Pittsburgh, Pa. Lighting bracket. Des. 76,740; Oct. 30.
Dym, Jacob, assignor to Porcelier Manufacturing Company, Pittsburgh, Pa. Lighting bracket. Des. 76,741; Oct. 30.
Eastman Kodak Company. (See Seymour, Merrill W., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eaton Axle & Spring Company, The. (See Veale, George W., assignor.)
Eaton, Leslie B., assignor to National Fibreform Company, San Francisco, Calif. Tray-stacking machine. 1,689,332; Oct. 30.
Eaton Richards M., Niagara Falls, N. Y. Electric flash light. 1,689,382; Oct. 30.
Eckfeldt, Frederick W., Norristown, Pa., assignor to John T. Lewis & Bros. Company, Philadelphia, Pa. Processing apparatus. 1,690,068; Oct. 30.
Edeburn, Alfred N., assignor to The Chain Products Company, Cleveland, Ohio. Side-chain lock. 1,689,944; Oct. 30.
Edgewater Steel Company. (See Bell, F. B., and Wikander, assignors.)
Ehardt, John, and L. Stark, Chicago; said L. Stark assignor to I. S. Stark, Chicago, Ill. Draftless ventilated window. 1,689,522; Oct. 30.
Ellers, Gerard J., Amsterdam Netherlands. Hard court for tennis and the like. 1,690,059; Oct. 30.
Ekholm, Herbert W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable third or fourth point support for brake beams. 1,689,333; Oct. 30.
Elderkin, James K., Montclair, assignor, by mesne assignments, to Forest Electric Corporation, Newark, N. J. Removable chemical rectifier. 1,689,819; Oct. 30.
Electric Vacuum Cleaner Company. (See Morgal, John F., assignor.)
Electrical Engineers Equipment Company. (See Jacobs, Ernest H., assignor.)
Electro Metallurgical Company. (See Becket, Frederick M. assignor.)
Elliott-Fisher Company, The. (See Walter, Edward C., assignor.)
Ellis, Missouri, Chicago, Ill. Refrigerator. 1,690,060; Oct. 30.
El Paso Sash & Door Co. ((See Trammell, Earl M., assignor.)
Ely & Walker Dry Goods Company. (See Wright, Clair G., assignor.)
Emerson Electric Mfg. Co., The. (See Parker, King L., assignor.)
Emmert, John R., and J. J. Pozdro, Chicago, Ill., assignors to Emil J Paider Co. Automatic adjustable foot rest. 1,689,197; Oct. 30.
Enderf, Charles, Chicago, Ill. Electric heating vessel. 1,689,915; Oct. 30.
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
Erickson, Frederick W., Aurora, Ill. Hand seed planter. 1,689,866; Oct. 30.
Ericsson, Eloy, St. Paul, Minn. Rotary engine. 1,689,523; Oct. 30.
Eskilson, Sven A., Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Pendulum lens apparatus. 1,689,623; Oct. 30.
Eskilson, Sven A., and H. Abramson, Stockholm, Sweden, assignors to American Gasaccumulator Company, Elizabeth N. J. Pendulum lens apparatus. 1,689,624; Oct. 30.
Evans, Jack Braman, Okla., assignor of one-half to N. L. Jones and B. I. Litowich, Salina, Kans. Gate. 1,690,061; Oct. 30.
Evans Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Signaling system. 1,689,807; Oct. 30.
Ever Hot Heater Co., The. (See Shnell, Frank W., assignor.)
Everlasting Furniture Brace Co. (See Balinky, Abraham, assignor.)
Evershed & Vignoles, Limited. (See Rolfe, George B., assignor.)
Fahrney, Emery H., Chicago, Ill. Snowplow feeding mechanism. 1,689,999; Oct. 30.
Fahrney, Emery H., Chicago, Ill. Snowplow. 1,690,000; Oct. 30.
Fansler, Isaiah J., sr., Watts, Calif. Fuel economizer and air-inlet valve for internal-combustion engines. 1,689,280; Oct. 30.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,689,233; Oct. 30.
Farmer, Fred, Brooklyn, N. Y., assignor to American Machine and Foundry Company. Wrapping-machine control. 1,689,428; Oct. 30.
Farrel-Birmingham Company. (See Banbury, Fernley H., assignor.)
Federal Phosphorus Company. (See Carothers, John N., assignor.)
Feldkeller, Richard, Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Berlin, Artificial line. 1,689,334; Oct. 30.
Ferree, Marvin, New York, N. Y., and J. Wiesmar, Cleveland, Ohio, assignors to Picture Transmission Corporation, New York, N. Y. Transmitting pictures and sending plate therefor. 1,689,666; Oct. 30.
Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic drive for machine tools. 1,690,069; Oct. 30.
Fielding, Walter J., Birmingham, England, assignor to Skinner Hill Co., New York, N. Y. Chandelier. Des. 76,742; Oct. 30.
Fielding, Walter J., Birmingham, England, assignor to Skinner Hill Co., New York, N. Y. Chandelier. Des. 76,743; Oct. 30.
Filkins, Arthur J., Riverside, Ill., assignor to Paul Dickinson, Incorporated. Floor vent. 1,690,001; Oct. 30.
Filkwik Company. (See Miller, Felix B., assignor.)
Filzer, Christian G., assignor of one-half to H. Steinruck, Erie, Pa. Variable curve-forming device. 1,689,234; Oct. 30.
Fink, Henry A., Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Can-end-feeding mechanism for closing machines. 1,690,002; Oct. 30.
Fink, Wilhelm, Bonn-on the-Rhine, Germany. Machine for washing fruits and vegetables. 1,689,868; Oct. 30.
Fischer, Albert C., Chicago, Ill. Expansion joint. 1,689,945; Oct. 30.
Fisher, Robert E., assignor to The George H. Bowman Company, Cleveland, Ohio. Scooter or coaster. 1,689,916; Oct. 30.
Fisk Rubber Company, The. (See Hennessy, Daniel E., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fisk Rubber Company, The. (See Wikle, George F., assignor.)
Fleckenstein, George A. (See Waterman, M. L., and Fleckenstein.)
Flood & Conklin Company. (See Root, Frank B., assignor.)
Foerch, John W., jr., Wilkes-Barre, Pa. Making fillers for baking pans. 1,690,003; Oct. 30.
Folberth, Frederick G., and W. M. Folberth, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,690,004; Oct. 30.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Folly Town Company, The. (See Anschell, Sidney C., assignor.)
Ford, Charles T., Washington, D. C. Liquid control cock. 1,690,005; Oct. 30.
Ford Instrument Company. (See Crouse, George B., assignor.)
Forest Electric Corporation. (See Elderkin, James K., assignor.)
Forman, Solomon, New York, N. Y. Tray. Des. 76,744; Oct. 30.
Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Socket receptacle. 1,689,820; Oct. 30.
Forssell, Carl A., Stockholm, Sweden. Joint in iron structures and reenforcing members. 1,689,281; Oct. 30.
Fortin, Paul R., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic pick-up apparatus. 1,689,524; Oct. 30.
Foster Wheeler Corporation. (See Brocklebank, Arthur P., assignor.)
Foust, Harrison H. (See Blair, Edward M., assignor.)
Fowler, Lester A., Oakland, Calif., and H. D. Hukill, Pittsburgh, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake slack adjuster. 1,689,235; Oct. 30.
Frankenberger, Fred W., Louisville, Ky., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Lavatory. Des. 76,745; Oct. 30.
Franklin Railway Supply Company. (See Martin, Frederick, F., assignor.)
Fraser, John jr., assignor to Milwaukee Valve Company, Milwaukee, Wis. Valve structure. 1,689,236; Oct. 30.
Free, Walter H. New Rochelle, N. Y. Liquid-fuel combustion. 1,689,067; Oct. 30.
Freeman, Hubert M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Nonmicrophonic triode. 1,689,821; Oct. 30.
Frey, Victor M., York, Pa. Manufacture of finishing lime. 1,689,237; Oct. 30.
Fried. Krupp Grusonwerk Aktiengesellschaft. (See Kästel, Emil, assignor.)
Fried. Krupp Grusonwerk Aktiengesellschaft. (See Wieghardt, Paul, assignor.)
Friedman, Elisha M., Booklyn, N. Y. Cigarette container. 1,689,335; Oct. 30.
Fries, Samuel W., and E. E. Malott, Kansas City, Mo. Mop head. 1,689,480; Oct. 30.
Frink, Wilbur G. (See Young, J. H., and Frink.)
Fuller Brush Company, The. (See Matteson, George F., assignor.)
Fuller, Oliver P., Detroit, Mich. Composition building-block mold. 1,689,282; Oct. 30.
Fullerton, Ernest M., Stoughton, Mass. Shoe last and making same. 1,689,623; Oct. 30.
Funk, Carlyle B., Chicago, Ill. Gear-locking or clutch mechanism for gear-change sets. 1,689,429; Oct. 30.
Furbush, Richard, Chicago, Ill., assignor to Budd Wheel Company, Philadelphia, Pa. Disk-wheel-straightening machine. 1,690,006; Oct. 30.
Fynn, Valère A., St. Louis, Mo. Asynchronous motor. 1,689,525; Oct. 30.
Gagelman, Francis F., New York, N. Y. Immersion heater. 1,689,198; Oct. 30.

Gale, Ernest L., Yonkers, N. Y., assignor to Gurney Elevator Company, Inc. Electrical control system operable automatically to level elevators with landings. 1,689,583; Oct. 30.
Gallowitz, Gustave A., assignor to The Kny-Scheerer Corporation of America, New York, N. Y. Over-the-bed table. 1,689,626; Oct. 30.
Gallup, George B., assignor to Leach-Gallup Manufacturing Company, Bradenton, Fla. Electric heater. 1,689,622; Oct. 30.
Ganz, Henry. (See Ganz, William and H.)
Ganz, William and H., Ridgefield Park, N. J., assignors to The Sweets Company of America, Inc., New York, N. Y. Feeding, cutting, rolling, and forming machine for plastic material. 1,689,199; Oct. 30.
Gardner-Denver Company, The. (See Katterjohn, August H., assignor.)
Gardner-Denver Company, The. (See Skaer, Arthur H., assignor.)
Gardner-Denver Company, The. (See Skaer, A. H., Barker, and Clark, assignors.)
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 1,689,869; Oct. 30.
Ganzer, Alfred W., Tottenville, and H. H. Storch, New York, N. Y., assignors to Burnham Chemical Company, Rero, N. Y. Obtaining sodium carbonate sulphate. 1,689,526; Oct. 30.
Gégauff, Charles, and J. Pflimlin, Mulhouse, France. Clearing mechanism for preparatory machines for textile fiber. 1,689,238; Oct. 30.
Geiger, John, Minden, Iowa. Clover huller. 1,689,239; Oct. 30
Geigy J. R., A. G. (See Mettler, Carl assignor.)
Gelsinger, Elliott E., assignor to The Pfaudler Co., Rochester, N. Y. Container. 1,689,917; Oct. 30
General Alloys Company. (See Van Stone, Edward P., assignor.)
General Electric Company. (See Anderson, Arvid E., assignor.)
General Electric Company. (See Bliss, Elmer F., assignor.)
General Electric Company. (See Brown, Herbert D., assignor.)
General Electric Company. (See Fortin, Paul R., assignor.)
General Electric Company. (See Hamilton, William S. H., assignor.)
General Electric Company. (See Kelsey, Charles A., assignor.)
General Electric Company. (See Macmillan, Campbell, assignor.)
General Electric Company. (See Reist, Henry G., assignor.)
General Electric Company. (See Sabbah, Camil A., assignor.)
General Electric Company. (See Savage, Marion A., assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Electric Company. (See Zimmerman, Arthur G., assignor.)
General Motors Corporation. (See Benica, Charles W., assignor.)
General Motors Corporation. (See Henny, J. C., and Cramer, assignors.)
General Motors Corporation. (See Leck, Charles W., assignor.)
General Ordnance Corporation. (See Caulkins, Cecil P., assignor.)
General Railway Signal Company. (See Bushnell, Charles S., assignor.)
General Railway Signal Company. (See Ross, Oscar A., assignor.)
Gensmer, Theodore, Portland, Oreg. Two-speed and reversing clutch. 1,689,200; Oct. 30.
Geometric Tool Co., The. (See Breitenstein, Albert F., assignor.)
George, Louis, New York, N. Y. Rotary steam engine. 1,689,777; Oct. 30.
Gerlerich, Clarence E., assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Shelving. 1,689,481; Oct. 30.
Gerrard Company, The. (See Wood, George, assignor.)
Giesecke Company, The. (See Heinsohn, Edwin L., assignor.)
Gleason Works. (See Trbojevich, Nikola, assignor.)
Gledhill, William, Barkisland, near Halifax, England. Weighing motion of looms for weaving. 1,689,870; Oct 30.
Goddard, Alvin C., Richmond Hill, N. Y. Metal door and the like. 1,689,823; Oct. 30.
Godley, Charles E., Ypsilanti, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Focusing adjustment device. 1,689,918; Oct. 30.
Goelz, Leonard A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical connecter. 1,689,824; Oct. 30.
Goldberg, Morr's L., Brooklyn, N. Y. Combined lamp and mounting. Des. 76,746; Oct. 30.
Goodrich, B. F., Company, The. (See Gray, Harold, assignor.)
Goodwin, William N., jr., Newark, N. J. Apparatus for testing vacuum tubes of the audion type. 1,689,871; Oct. 30.
Gordon, Louis W., New York, N. Y. Removable buckle holder for shoes. 1,689,240; Oct. 30.
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Gould & Eberhardt. (See Zimmermann, W. F., and Hauser, assignors.)
Gowdy, Harry M., assignor to The Planet Company, Westfield Mass. Propeller blade for dishwashing machines. 1,689,383; Oct. 30.
Graham, Charles W., assignor to American Can Company, San Francisco, Calif. Key-opening can. 1,689,627; Oct 30.
Grandjean, Marc, assignor to Societe Anonyme Stenotype Grandjean, Paris, France. Stenographic machine. 1,689,283; Oct. 30.
Granger, Gertrude V., Savannah, Ga., assignor to Mothproof Rug Bag Company, Chatham County, Ga. Rug bag. Re17,118; Oct. 30.
Grasselli Dyestuff Corporation. (See Kränzlein, G., and Roemer, assignors.)
Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Bonding rubber to metal. 1,689,628; Oct. 30
Gray, James A., assignor to American Can Company, San Francisco, Calif. Blank-feed mechanism. 1,689,668; Oct 30.
Gray, James A., assignor to American Can Company, San Francisco, Calif. Apparatus for interlocking and uniting the hooked edges of blanks to form can bodies. 1,689,669; Oct 30.
Gray, James A., assignor to American Can Company, San Francisco, Calif. Entrail collecting means for eviscerating apparatus. 1,689,670; Oct. 30.
Green, Samuel G., Gray, Ga. Machine-gun unit. 1,689,482; Oct. 30.
Greenfield Tap and Die Corporation. (See Drake, Alden M., assignor.)
Greve Edgar E., Bellevue, Pa. Automatic releasing tongs. 1,690,007; Oct. 30
Greve Edgar E. Bellevue, Pa. Automatic releasing tongs. 1,690,008; Oct. 30.
Griffin, Joseph, Teaneck, N. J., assignor to The Superheater Company, New York, N. Y. Exhaust-steam injector. 1,689,336; Oct. 30.
Grigsby, Owen E. (See Grunow, W. C., and Grigsby.)
Grigsby-Grunow-Hinds Co. (See Grunow, W. C., and Grigsby, assignors.)
Grilli, Angelo, assignor of one-half to D. Livieri, Milwaukee, Wis. Tire and luggage carrier. 1,689,825; Oct 30.
Grinleger, John H. St. Paul, Minn. Antirattling device for storm windows. 1,689,826; Oct. 30
Groden, John J., Philadelphia, Pa. Foldable wringer. 1,690,062; Oct. 30.
Grosvenor, John E., Hagley, and W. T. Picking, Kidderminster, assignor, by mesne assignments, to M. J. Whittal Associates, Ltd. Loom for weaving pile fabrics. 1,689,384; Oct. 30.
Gruner, George W., Pinckneyville, Ill. Chain hook. 1,689,827; Oct. 30.
Grunow, William C., Chicago, and O. E. Grigsby, Park Ridge, Ill., assignors to Grigsby-Grunow-Hinds Co., Chicago, Ill. Electric cigar lighter. 1,689,720; Oct. 30.
Grupe, William F., Lyndhurst, N. J., assignor to Boucher-Cork Company, New York, N. Y. Molding composite cork bodies. 1,689,584; Oct. 30.
Gurney Elevator Company. (See Gale, Ernest L., assignor.)
Gwinn, George W., Hewlett, N. Y., assignor to American Machine & Foundry Company. Package and making the same. 1,689,430; Oct 30
Haber, Eugen, Berlin-Charlottenburg, Germany. Mechanical draft installation. 1,689,241; Oct. 30.
Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Antenna. 1,689,337; Oct. 30.
Hadley, Charles O. (See Davis, John H., assignor.)
Hahn, Harry L., Lancaster, Pa. Combined mirror or picture frame and radiohorn. 1,689,385; Oct 30.
Hails-Karlebach, Helen, New York, N. Y. Clothes hanger. Des. 76,747; Oct. 30.
Haines Hosiery Mills, Inc. (See Haines, J., jr., and Paget, assignors.)
Haines, Joseph, jr., Meadowbrook, and H. F. Paget, assignors to Haines Hosiery Mills, Inc., Philadelphia, Pa. Stocking. 76,748; Oct. 30.
Hall C. M., Lamp Company. (See Godley, Charles E., assignor.)
Hall, Charles W., Valparaiso, Ind. Combined container and support. 1,690,063; Oct. 30.
Hall & McChesney Inc. (See McChesney, Donald S., assignor.)
Hall, Walter O., Franklin, Mass., assignor to American Type Founders Company, Jersey City, N. J. Delivery mechanism. 1,689,431; Oct. 30.
Halter, Georges, Paris, France. Conveyer operated at accelerated speed. 1,689,201; Oct. 30.
Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Automatic stopping means. 1,689,242; Oct. 30.
Hamilton, Perry H., Baltimore, Md., assignor to Maintenance Equipment Company, Chicago, Ill. Ballast-cleaning apparatus. 1,690,009; Oct. 30.
Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. Storage-battery-charging system. 1,689,483; Oct. 30.

Hammermill Paper Company. (See Randecker, Leonard E., assignor.)
Hammond, Cecil F., assignor of one-fifth to W. Shackleton London, England. Gaseous-fuel burner. 1,689,551; Oct. 30.
Handley, George F. (See Myers, L. C., and Handley.)
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic charging device. 1,689,778; Oct. 30.
Hansen, Jacob M., assignor to Hartmann-Malcolm Company, Chicago, Ill. Settee frame or similar article. Des. 76,749; Oct. 30.
Hare, Wilfred A., Detroit, Mich. Furnace stoker. 1,689,202; Oct. 30.
Harlan, Harold C., and W. J. Zimmerman, Dayton, Ohio. Display window. 1,689,872; Oct. 30.
Harnischfeger Corporation. (See Lexa, George J., assignor.)
Harris, Carl C., Orange, Mass. Bathing float. 1,689,721; Oct. 30.
Harris, James E., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,689,338; Oct 30.
Harrison, Henry C., Fort Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Energy-translation system. 1,689,339; Oct. 30.
Hartmann-Malcom Company. (See Hansen, Jacob M., assignor.)
Hartwig, William G., Chicago, Ill. Electric heater system. 1,689,432; Oct. 30.
Harvey, Samuel B., Wellston, Mo. Condenser cage for intake manifolds. 1,689,423; Oct. 30.
Haschart, Louis F., Lynbrook, N. Y. Tire tool. 1,689,585; Oct. 30.
Hass, Charles W. (See Redmer, Frank M., assignor.)
Hauser, Henry. (See Zimmerman, W. F., and Hauser.)
Hawkins, Wilford J., Montclair, N. J., assignor to American Machine & Foundry Company. Molded article and making the same. 1,689,386; Oct. 30.
Haworth, William H., Green Bay, Wis. Antenna. 1,689,629; Oct. 30.
Hay, Harry C., assignor, by mesne assignments, to The Crim, Wadsworth & Thiel Auto Theft Alarm Development Company, Cincinnati, Ohio. Automobile theft-alarm system. 1,689,434; Oct. 30.
Hayes, William, Big Hill, Ky. Antirearing attachment for tractors. 1,690,064; Oct. 30.
Healey, Francis R., Cincinnati, and W. E. Beaty, Norwood, Ohio. Globe structure. 1,689,828; Oct. 30.
Hearn, John F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selector switch. 1,689,340; Oct. 30.
Heath, Frank, National City, Calif. Fish directing and turning apparatus. 1,689,919; Oct. 30.
Heath, Frank, National City, Calif. Fish-directing apparatus. 1,689,920; Oct. 30.
Heddon's James, Sons. (See Welch, Jack T., assignor.)
Hedstrom, Gustav V., Kenosha, Wis. Supporting frame for instruments of radio sets. 1,690,065; Oct. 30.
Heimlich, Ernst L. A., Bremen, Germany. Apparatus for obtaining the bast of stalked plants. 1,689,387; Oct. 30.
Heinrich, Walter A., assignor to W. N. Matthews Corporation, St. Louis, Mo. Switch. 1,689,527; Oct. 30.
Heinsohn, Edwin L., Cleveland, assignor to The Glascote Company, Euclid, Ohio. Heat-exchanging coil. 1,689,435; Oct 30.
Heintz, Norman M., Hespeler, Ontario, Canada. Sanding machine. 1,689,829; Oct. 30.
Heinz Floral Rack Co. (See White, Clarence J., assignor.)
Heise, Otto W., Bridgeport, Conn., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y. Alarm gauge. 1,689,830; Oct. 30.
Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Highly-selective signal reception. 1,689,341; Oct. 30.
Helmstein, Lars G. H., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Bogie for railway cars and the like. 1,689,921; Oct. 30.
Hem, Helvor O., assignor to Toledo Scale Company, Toledo, Ohio. Stabilizing device. 1,689,722; Oct. 30.
Hemphill Company. (See Lawson, John and R. H., assignors.)
Hempy, Wilbur J., Kansas City, Mo. Expanding mandrel. 1,689,484; Oct. 30.
Hendricks, Nathan V., Morenci, Mich. Spreader. 1,690,090; Oct. 30.
Hendry, William F., Ossining, assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Telephone receiver. 1,689,388; Oct. 30.
Hendry William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc. Current-supply system. 1,689,485; Oct. 30.
Hennessy, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,689,831; Oct. 30.
Henry, Jacob C., East Orange, and R. H. Cramer, Newark, N. J., assignors to General Motors Corporation, Detroit, Mich. Winding machine. 1,689,873; Oct. 30.
Heying, Jessie. (See Lee, Charles W., assignor.)
Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)
Hill, Roland E., assignor to Williams Sealing Corporation, Decatur, Ill. Lever-tripping device for bottle-capping machines. 1,690,070; Oct. 30.
Hill, Thomas W., and E. J. Reed, Swissvale, Pa. Refreshment stand. Des. 76,750; Oct. 30.
Hillier, Abraham, New Orleans, La. Stocking. Des. 76,751; Oct. 30
Hillier, Isaac E., Marion, Mass. Machine for spreading sand, gravel, etc. 1,689,342; Oct. 30.
Hinrichsen, Edward E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,689,343; Oct. 30.
Hlorth, Jens B., Hovik, near Oslo, Norway. Guide apparatus for the propeller stream of vessels. 1,689,779; Oct. 30.
Hodge, Charles S., Seattle, Wash. Water-bag carrier. 1,689,436; Oct. 30.
Hoerle, William F., assignor to Union Hardware Company, Torrington, Conn. Joint for folding rules, etc. 1,690,071; Oct. 30
Hojnowski, Jakob, Nekoosa, Wis. Combination tie and rail fastening. 1,689,486; Oct. 30.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Work-holding bail for typewriters. 1,689,203; Oct. 30.
Holcomb, Wynne, New York, N. Y. Purse. Des. 76,752; Oct. 30.
Holcomb, Wynne, New York, N. Y. Purse. Des. 76,753; Oct. 30.
Holcombe, Jolly R., Columbia, S. C., and F. F. Dunbar, Augusta, Ga., assignors to The Auto Cradle Company, Orangeburg, S. C. Apparatus for tilting automobiles. 1,689,284; Oct. 30.
Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-filling device. 1,690,066; Oct. 30
Hollingworth, Edward, Dobeross, England, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picking mechanism for looms for weaving. 1,689,723; Oct. 30.
Holman, Leslie A., Waltham, Mass. Heel-lift-depositing mechanism. 1,689,487; Oct. 30.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,689,586; Oct. 30
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Pressure-fluid motor. 1,689,587; Oct. 30.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling tool. 1,690,085; Oct. 30.
Holt, Donald, Chicago, Ill. Lighting fixtures and the like. 1,689,488; Oct. 30.
Hock, Harry J., Chester, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for weft-replenishing looms. 1,689,724; Oct 30
Horn, Guido, Weissensee, near Berlin, Germany. Threadguide lever for braiding machines. 1,689,389; Oct. 30.
House, Warren D., Kansas City, Mo. Radiotelephony. 1,690,010; Oct. 30
House, Warren D., Kansas City, Mo. Radio loud speaker. 1,690,011; Oct. 30.
Hoy, Dear T., Chicago, Ill. Grinding apparatus. 1,689,922; Oct. 30.
Hoy, Walter J., Woodside New York, N. Y. Safety device for transporting fragile articles. 1,689,588; Oct. 30.
Hubert, Emil. (See Schmidt, H., and Hubert.)
Hudson, Albert E. (See Richardson, J. H., and Hudson.)
Hudd, Alfred E., Wallasey, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Electromagnetic relay device. 1,689,946; Oct. 30.
Hudson Motor Car Company. (See Ruppel, Frederick C., assignor.)
Hugentobler, Ulrich, Union City, assignor to Charles Comora Embroidery Company, Inc., Weehawken, N. J. Lace medallion. Des. 76754; Oct. 30.
Hughes, Arthur S., assignor seven-twentieths to Dr. J. B. Benton, Minden, La. Rail adjuster. 1,690,012; Oct. 30.
Huhn A., Manufacturing Company. (See Huhn, Alex G. assignor.)
Huhn, Alex G., assignor to A. Huhn Manufacturing Company, Minneapolis, Minn. Apparatus for drying or cooling material. 1,690,013; Oct. 30.
Hukill, Henry D. (See Fowler, L. A., and Hukill.)
Hulshizer, George W., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,689,780; Oct. 30.
Hunt, William H., National City, Calif. Can opening and sealing device. 1,689,344; Oct. 30.
Hunter, Samuel R., Mishawaka, and J. W. Arnold, South Bend, Ind. Box for mail and the like. 1,689,204; Oct. 20.
Hurd, Edwin P., Detroit, Mich. Tire-chain lock. 1,689,437; Oct. 30.
Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Indicating device. 1,689,725; Oct. 30.
Hutto, Marsden C., Detroit, Mich. Grinder. 1,689,589; Oct. 30.
Hyde, James F. (See Adams, R., and Hyde.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, H., and Hubert, assignors.)
Industrial Research Corporation. (See Brockway, Carl P., assignor.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)

Ingersoll-Rand Company. (See Hulshizer, George W., assignor.)
Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)
Ingraham, Nathan. (See Barber, E., and Ingraham.)
International Cigar Machinery Company. (See Clausen, S., and Lindblad, assignors.)
Intertype Corporation. (See Berry, Alfred M., assignor.)
Jabs, Asmus, Zurich, Switzerland. Stuffing box for shafts and the like. 1,689,874; Oct. 30.
Jackson, Joseph R., jr., Brookline, assignor to M. E. Jackson, Boston, Mass. Liquid switch. 1,690,014; Oct. 30.
Jackson, Lucian C., et al. (See Williams, John F., assignor.)
Jackson, Marguerite E. (See Jackson, Joseph R., jr., assignor.)
Jacobi, Edward N., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Handle lock. 1,689,875; Oct. 30.
Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Lightning arrester. 1,689,781; Oct. 30.
Jakosky, John J., Los Angeles, Calif. Petroleum-cracking process and apparatus. 1,689,590; Oct. 30.
Janecek, Adolph J., Cedar Rapids, Iowa. Tempered-air directioner. 1,689,489; Oct. 30.
Jefferies, Ebenezer A. W. (See Jefferies, Ernest S., assignor.)
Jefferies, Ernest S., Hamilton, Ontario, Canada, assignor of one-third to E. A. W. Jefferies, Worcester, Mass. Apparatus for electrically heating metal bars. 1,689,876; Oct. 30.
Jeffries, Zay, and R. S. Archer, Cleveland, Ohio, assignors to American Magnesium Corporation, Niagara Falls, N. Y. Heat treating magnesium alloys. 1,689,630; Oct. 30.
Jellison, Roscoe B., assignor to Parker and Waterman Manufacturing Company, Los Angeles, Calif. Tire cover. 1,689,438; Oct. 30.
Jenkins, Charles F., Washington, D. C. High-speed camera. Re17,119; Oct. 30.
Jennings, Irving C., South Norwalk, Conn. Adjusting and securing means for air-pump rotors. 1,689,726; Oct. 30.
Jennings, Melvin O., East Lexington, assignor to H. H. Beckwith, Brookline, Mass. Apparatus for conditioning box toes. 1,689,631; Oct. 30.
Jennings, Victor H. (See Chevrette, A. J., and Jennings.)
Johns-Manville Corporation. (See Seigle, William R., assignor.)
Johns-Manville, Inc. (See Wardell, Henry R., assignor.)
Johnson, Birger, Stockholm, Sweden. Treating aqueous emulsions of tar. 1,689,728; Oct. 30.
Johnson, Charles A., Sacramento, Calif. Dishwashing machine. 1,689,727; Oct. 30.
Johnson, Cleon, R., Houston, Tex., Standard Oil Development Company. Receptacle for volatile liquids. 1,690,072; Oct. 30.
Johnson, George B., Evanston, Ill. Hydrocarbon burner. 1,690,015; Oct. 30.
Johnson, John E., assignor to Cheney Brothers, South Manchester, Conn. Fell gauge for looms. 1,689,591; Oct. 30.
Johnson, Raymond D., New York, N. Y. Pressure-control system. 1,689,947; Oct. 30.
Johnston, Howard L., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Globe holder. 1,689,832; Oct. 30.
Johnstone, Alan, Carshalton, England. Pencil case. 1,689,390; Oct. 30.
Jones, Clarence M. (See O'Neill, A. G., and Jones.)
Jones, Joseph S., Brooklyn, and S. N. Mead, jr., Baldwin, assignors to Chas. Cory & Son, Incorporated, New York, N. Y. Telephone system and appliances. 1,689,391; Oct. 30.
Jones, Nathan L., et al. (See Evans, Jack, assignor.)
Jording, Christian H., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Vehicle headlight. 1,690,016; Oct. 30.
Joyce, Edward F., Wheeling, W. Va. Hanger for trolley wires. 1,689,632; Oct. 30.
Jude, Alexander, assignor to Bulliss and Morcom Limited, Billingham, England. Turbo air or gas compressor. 1,689,671; Oct. 30.
Juhlin, Gustaf A., Sale, and L. Miller, Whitefield, England, assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company. Marine propulsion. 1,689,877; Oct. 30.
Kasley, Alexander T., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,689,672; Oct. 30.
Kästel, Emil, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Hotbed. 1,689,552; Oct. 30.
Katterjohn, August H., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Fl. Chuck-rotating mechanism. 1,689,392; Oct. 30.
Katz & Ogush, Inc. (See Ogush, Benjamin, assignor.)
Kaufman & Oberleder, Inc. (See Baruch, George J., assignor.)
Kay, Foist. (See Burns, Charles St. C., assignor.)
Keith, Charles W., assignor to D. K. Stephenson, Denver, Colo. Ensilage cutter. Re17,120; Oct. 30.
Keith, Melvin W. (See Olson, Robert W., assignor.)
Kellman, Carl W., Chicago, Ill. Clothes drier. 1,689,345; Oct. 30.
Kelly, William M., assignor to American Type Founders Company, Jersey City, N. J. Pile-elevating mechanism. 1,689,729; Oct. 30.
Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Sheet-feeding device. 1,689,878; Oct. 30.
Kelsey, Charles A., Schenectady, N. Y., assignor to General Electric Company. Centrifugal extractor. 1,689,490; Oct. 30.
Kelvinator Corporation. (See Renlogle, John R., assignor.)
Kendall, Burton W., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and system of carrier-wave telegraphy. 1,689,346; Oct. 30.
Kendall, William G., Newark, N. J. Hinge and compact holder for vanity cases. 1,690,017; Oct. 30.
Kennedy, Benjamin H. (See Kennedy, Dewey M. and B. H.)
Kennedy, Dewey M. and B. H., assignors to Kennedy-McCandless Corporation, Rochester, N. Y. Crib. 1,689,782; Oct. 30.
Kennedy-McCandless Corporation. (See Kennedy, Dewey M. and B. H., assignors.)
Kennedy, Samuel, jr., Clear Lake, Iowa. Cultivator. 1,689,243; Oct. 30.
Kerfoot, Branch P., New York, N. Y. Adjustable wrench. 1,690,078; Oct. 30.
Kern, Mason H., Toledo, Ohio. Automobile lamp. 1,690,019; Oct. 30.
Kertész, Ferenc, Budapest, Hungary. Bearing especially for railway vehicles. 1,689,783; Oct. 30.
Kesses, Charles, New York, N. Y. Signal clock. 1,689,833; Oct. 30.
Ketcham, Grace. (See Noark, Theodore J., assignor.)
Kincaid, Joseph H., Evanston, assignor to Central Scientific Company, Chicago, Ill. Pneumatic trough. 1,690,073; Oct. 30.
King, George A., assignor to Scovill Manufacturing Company, Waterbury, Conn. All-wire pin fastener. 1,690,074; Oct. 30.
King, James E. (See Tate, H. E., King, and Barber.)
Kingman, Russell B., Orange, assignor to Metal Textile Corporation, West Orange, N. J. Scouring ball. 1,689,207; Oct. 30.
Kingsford, Russell T., Wyncote, and W. H. Richter, assignors to Atwater Kent Manufacturing Company, Philadelphia, Pa. Telephone magnet system. 1,689,948; Oct. 30.
Kirschbraun, Lester, Chicago, Ill. Pavement and laying same. 1,690,020; Oct. 30.
Kjellerup, Niels M. A., St. Paul, Minn. Protective mounting for stamps or other objects. 1,689,528; Oct. 30.
Klaus, Fred R., assignor to The American Welding and Manufacturing Company, Warren, Ohio. Forming annular plates. 1,689,784; Oct. 30.
Klein, George S., Granger, Wash. Dispensing apparatus. 1,689,393; Oct. 30.
Kliegl, John H., New York, N. Y. Music stand. Des. 76,755; Oct. 30.
Klimek, Gustav A., East Rutherford, N. J., assignor to Turbine Patents Corporation, New York, N. Y. Hydraulic-power transmitter. 1,689,244; Oct. 30.
Klimek, Gustav A., East Rutherford, N. J., assignor to Turbine Patents Corporation, New York, N. Y. Power transmitter. 1,689,245; Oct. 30.
Knab, Hermann, Nuremberg, Germany, assignor of one-half to G. Weidmann-Meier, Zurich, Switzerland. Differential gear for self-propelled vehicles. 1,689,285; Oct. 30.
Knapen, Achille, Brussels, Belgium. System of vertical differential ventilation. 1,689,246; Oct. 30.
Knapp, Robert W., Chester, Ill. Rat or mouse trap. 1,689,529; Oct. 30.
Knight, Charles Y., Pasadena, Calif., assignor to The Willys-Overland Company, Toledo, Ohio. Adjustable transmission gear. 1,689,730; Oct. 30.
Knight Montgomery, Holyoke, Mass., assignor to Westinghouse Electric and Manufacturing Company. Temperature-compensating device. 1,689,785; Oct. 30.
Kny-Scheerer Corporation of America, The. (See Gallowitz, Gustave A., assignor.)
Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Article made of fibrous material and producing same. 1,689,394; Oct. 30.
Koehler Manufacturing Company. (See Albee, W. H., and Davis, assignors.)
Koenigsberg, Kurt, Seattle, Wash. Direction indicator. 1,689,756; Oct. 30.
Köhler, Josef, Herne, Germany. Percussive pneumatic tool. 1,689,731; Oct. 30.
Kopacka, Joseph J. (See Aichinger, F., and Kopacka.)
Koppel Industrial Car and Equipment Company. (See Schmohl, A. C., and Anderson, assignors.)
Korn, Franklin A., Elizabeth, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Telephone system. 1,689,347; Oct. 30.
Kourim, William, assignor to Willoughby Sausage Company, Willoughby, Ohio. Flat wiener. 1,689,395; Oct. 30.

Kränzlein, Georg, and F. Roemer, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Monodiazo compounds of 1.4-diaminoanthraquinone -sulphonic acids and preparing the same. 1,690,021; Oct. 30.
Kraus, Charles A., and C. C. Cullis, Worcester, Mass., assignors to Standard Oil Development Company. Alkylation. 1,690,075; Oct. 30.
Kreissle, Hermann, Ansbach, Germany. Two-stroke-cycle, internal-combustion engine. 1,689,834; Oct. 30.
Krout, Ray W., Newark, N. J., assignor, by mesne assignments, to Racine Confectioners' Machinery Company, Racine, Wis. Machine relating to the production of candy. 1,689,879; Oct. 30.
Krumm, Louis R., New York, N. Y. Signaling system. 1,689,935; Oct. 30.
Küchenmeister, Heinrich J., Berlin, Germany. Sound-reproducing instrument. 1,689,880; Oct. 30.
Kuhn, John J., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Combined jack and selecting switch. 1,689,348; Oct. 30.
Kupferschmid, Gebhard, New York, N. Y. Holder for soap. 1,689,782; Oct. 30.
Laclede-Christy Clay Products Co. (See Burnet, Samuel F., assignor.)
Lalor Fuel Oil System Company, Inc., The. (See Lalor, James D., assignor.)
Lalor, James D., assignor to The Lalor Fuel Oil System Company Inc., Baltimore, Md. Gear pump. 1,689,673; Oct. 30.
Lamplough, Leslie F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for continuously sheathing cores. 1,689,205; Oct. 30.
Lamplough, Leslie F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating vulcanizable material. 1,689,206; Oct. 30.
Landers, Bert A., Los Angeles, Calif. Christmas tree. 1,689,530; Oct. 30.
Landgraf, Jacob T., assignor to American Steel Products Co., Macomb, Ill. Baffle for coal-burning heaters. 1,689,923; Oct. 30.
Landis & Gyr A.-G. (See Beusch, Willi, assignor.)
Landis Tool Company. (See Steiner, Amos P., ass'gnor.)
Lang, Caroline E., New York, N. Y. Waterproof bathing case. 1,689,396; Oct. 30.
Lang, Elmer L. and G. H., Boston, Mass. Marking machine. 1,689,349; Oct. 30.
Lang, George H. (See Lang, Elmer L. and G. H.)
Lange, Paul H., assignor to The Max Ams Machine Company, Bridgeport, Conn. Conveying and accelerating device. 1,689,247; Oct. 30.
Laughaus, Morris, New York, N. Y. Powder duster. 1,690,022; Oct. 30.
Lauham, Paul, Lanham, Md. Proportional feed-controlling apparatus. 1,689,401; Oct. 30.
Lannmark, Sven E., Stockholm, Sweden. Bottle-rinsing machine. 1,689,402; Oct. 30.
Larsen, Louis G., Jersey City, N. J. Sound-reproducing instrument. 1,689,788; Oct. 30.
Lasker, George, Chicago, Ill. Producing sectional boiler drums. 1,689,789; Oct. 30.
Laucks, I. F., Inc. (See Laucks, I. F., and Davidson, assignors.)
Laucks, Irving F., and G. Davidson, assignors to I. F. Laucks, Inc., Seattle, Wash. Vegetable glue and making same. 1,689,732; Oct. 30.
Lantenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Newton, Mass. Eyeleting machine. 1,689,949; Oct. 30.
Lawaczeck, Franz, Munich, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Rotary air pump. 1,689,439; Oct. 30.
Lawrence, Joseph T., Jersey City, N. J., assignor to Mitchell-Rand Mfg. Co. Stirring mechanism. 1,689,733; Oct. 30.
Lawson, John and R. H., Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Mechanism for controlling knitting needles in plating relations. 1,690,076; Oct. 30.
Lawson, Robert H. (See Lawson, John and R. H.)
Leach-Gallup Manufacturing Company. (See Gallup, George B., assignor.)
Leck, Charles W., Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Work-locating apparatus. 1,689,881; Oct. 30.
Lee, Charles W., assignor of fifty per cent to J. Heying, St. Louis, Mo. Porch-swing attachment. 1,689,397; Oct. 30.
Lefevre, Arthur, jr., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Display device. 1,689,790; Oct. 30.
Leff, Ruby, New York, N. Y. Stocking. Des. 76,756; Oct. 30.
Leff, Ruby, New York, N. Y. Stocking. Des. 76,757; Oct. 30.
Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,689,836; Oct. 30.
Leon, Lewicki J., West Chicago, Ill. Loop for bird-cage stands. Des. 76,758; Oct. 30.
Leonard, Walter B., 2d, assignor to American Emery Wheel Works, Providence, R. I. Grinding machine, grinding wheel, and cooling the same. 1,689,950; Oct. 30.
Leonhardt, Otto, Crossen, Germany. Paper, cardboard, and pasteboard making machine. 1,689,553; Oct. 30.
Levoz, Toussaint, Heer, Belgium, assignor to N. V. Handelmaatschappij Ferlron, Rotterdam, Netherlands. Direct reduction of iron ores. 1,689,734; Oct. 30.
Levy, Louis J., Jersey City, N. J. Code-sending apparatus. 1,690,023; Oct. 30.
Lewis, Arthur J., Stratford, assignor to The Baird Machine Company, Bridgeport, Conn. Chucking machine. 1,689,440; Oct. 30.
Lewis, Claude A., Houston, Tex., assignor to American Window Company. Window. 1,689,441; Oct. 30.
Lewis, George A., Chicago, Ill. Drying machine. 1,690,024; Oct. 30.
Lewis, Grover W., Macomb, Ill. Cream-separator attachment. 1,689,837; Oct. 30.
Lewis, John T., & Bros. Company. (See Eckfeldt, Frederick W., assignor.)
Lewis-Shepard Company. (See Shepard, F. J., jr., and Warshaw, assignors.)
Lexa, George J., Wauwatosa, assignor to Harnischfeger Corporation. Milwaukee, Wis. Solenoid brake. 1,689,442; Oct. 30.
Lindblad, Charles V. (See Clausen, S., and Lindblad.)
Link, Vincent, and H. S. Pierce, Detroit, Mich., assignors to The Studebaker Corporation, South Bend, Ind. Brake. 1,689,554; Oct. 30.
Lley, F. Paul, Passaic, N. J. Insole for boots and shoes. 1,689,398; Oct. 30.
Litowich, B. L., et al. (See Evans, Jack, assignor.)
Little, Benjamin P. (See Pike, R. D., West, and Little.)
Livieri, Dan. (See Grilli, Angelo, assignor.)
Lloyd, Marshall B., Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Machine for weaving reed fabric. 1,689,531; Oct. 30.
Loadometer Company, The. (See Troll, Frederick J., assignor.)
Lofland, Emil M., Chicago, Ill. Manufacture of ferrous hydroxide. 1,689,951; Oct. 30.
Lombardi, Vincent, Brooklyn, N. Y. Pattern mechanism for knitting machines. 1,689,592; Oct. 30.
Long, Ralph A., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Commercial blasting explosive. 1,689,674; Oct. 30.
Losel, Franz, Brunn, Czechoslovakia. Labyrinth gland construction. 1,689,735; Oct. 30.
Louisot, Felix, Hasbrouck Heights, N. J. Pulp mold of laminate structure. 1,689,555; Oct. 30.
Lovejoy, Louis B., assignor, by mesne assignments, to Clark Metal Products, Incorporated, Bridgeport, Conn. Floor and ceiling plate for pipes. 1,689,952; Oct. 30.
Loveridge, George W., Republic, Wash. Chair attachment. 1,690,025; Oct. 30.
Lulofs, Warner, Amsterdam, Netherlands. Furnace burning pulverized fuel. 1,689,675; Oct. 30.
Lumiere, Louis, Lyon, France. Talking machine employing large diaphragm. 1,689,286; Oct. 30.
Lupien, Henry B., Manchester, N. H. Apparatus for manufacturing ornamental shoe uppers. 1,689,633; Oct. 30.
Lutz, Martin H., jr., Nelsonville, Ohio. Engine piston. 1,689,953; Oct. 30.
Lyon Metal Products, Incorporated. (See Gerberich, Clarence E., assignor.)
Macbeth-Evans Glass Company. (See Sloan, Theodore H., assignor.)
MacFarland, Allis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic welding apparatus. 1,689,882; Oct. 30.
MacGregor, Wallace F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination cotton harvester. 1,689,443; Oct. 30.
Mack, Mortimer J., Summit, N. J. Imparting a wool finish to cotton cloth. 1,689,208; Oct. 30.
Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Power system. 1,689,493; Oct. 30.
Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Power system. 1,689,532; Oct. 30.
Magill, Donald G., Brooklyn, assignor to American Can Company, New York, N. Y. Process and apparatus for forming grease-proof fiber containers. 1,689,593; Oct. 30.
Magnet-Werk G. m. b. H. Eisenach, Spezialfabrik für Elektromagnet-Apparate. (See Bing, Julius, assignor.)
Maintenance Equipment Company. (See Hamilton, Perry H., assignor.)
Majewski, Clara, Chicago, Ill. Brush cleaner. 1,689,209; Oct. 30.
Malcolm, John A., Cleveland, Ohio. Lock nut for electrical conduits. 1,689,248; Oct. 30.
Malmquist, John O., assignor to American Can Company, San Francisco, Calif. Oval-gear double-seamer head. 1,689,634; Oct. 30.
Malone, Robert H., Eaton, Tenn. Cotton-picking sack. 1,689,399; Oct. 30.
Maloney, Edward J., Long Island City, N. Y. Steering mechanism. 1,689,924; Oct. 30.
Malott, Ervin E. (See Fries, S. W., and Malott.)

Manhattan Electrical Supply Company. (See Hendry, William F., assignor.)
Manley, Lee L., Brooklyn, N. Y., assignor to Radio Corporation of America. Loop antenna. 1,689,400; Oct 30.
Manshel, Charles, Newark, N. J. Order ticket or coupon. 1,689,444; Oct. 30.
Marcus, Joseph K., New York, N. Y. Extracting the non-saponifiable and difficultly saponifiable matter from fatty material. 1,690,091; Oct. 30.
Marcus, Samuel, Brooklyn, assignor, by mesne assignments, to Markon Manufacturing Co., Inc., New York, N. Y. Tongue and teeth for doll heads. 1,689,925; Oct. 30.
Markon Manufacturing Co. (See Marcus, Samuel, assignor.)
Marquette Tool & Mfg. Company. (See Rode, Fredrich J., assignor.)
Marshall, David O., assignor to Mound City Wood Heel and Mfg. Co., St. Louis, Mo. Heel-blank-grooving machine. 1,689,494; Oct. 30.
Marsillus, Newman M., assignor, by mesne assignments, to The Producto Machine Company, Bridgeport, Conn. Milling machine. 1,689,635; Oct. 30.
Marteau, Ralph L., and C. A. Schroeter, Brooklyn, N. Y. Shoe construction. 1,689,350; Oct. 30.
Martin, Frederick W., Bronxville, N. Y., assignor to Franklin Railway Supply Company. Locomotive booster. 1,689,676; Oct. 30.
Martin, Frederick W., Brooklyn, N. Y., assignor to Franklin Railway Supply Company. Power-reverse gear. 1,689,677; Oct. 30.
Marx, Leon, London, England. Support or holder for cut flowers and the like. 1,689,954; Oct. 30.
Massopust, Herbert F., Milwaukee, Wis. Automobile trunk. 1,689,736; Oct. 30.
Matheson, William A., assignor to Roll-A-Way Bed Corporation, Chicago, Ill. Convertible bed. 1,689,737; Oct. 30.
Mathewson, Wilfred B. (See Tervo, Oscar, assignor.)
Matteson, George F., Rocky Hill, assignor to The Fuller Brush Company, Hartford, Conn. Stop-motion mechanism. 1,689,287; Oct. 30.
Matthews, W. N., Corporation. (See Heinrich, Walter A., assignor.)
Maussner, Frederick C., Collingswood, N. J. Ice-saving pad. 1,689,351; Oct. 30.
Mauterer, Arthur, Dortmund, Germany. Making piles. 1,689 678; Oct. 30.
Mauz, Karl, Wurttemberg, Germany. Machine for sorting bristles, hairs, fibers, and the like according to desired lengths. 1,689,679; Oct. 30.
Maxon, Harry R., Muncie, Ind. System for gathering gas from oil tanks, etc., of refineries. 1,689,352; Oct. 30.
McBrien, Roger W., Alton, Ill. Thermostatically-operated electric switch. 1,689,210; Oct. 30.
McChesney, Donald S., Syracuse, N. Y., assignor to Hall & McChesney Inc., Syracuse, N. Y. Loose-leaf book. 1,689,401; Oct. 30.
McClanahan, Fred C. (See Bott, Wister P., assignor.)
McClatchie, John M., assignor to The Borden Company, New York, N. Y. Pump. 1,689 791; Oct. 30.
McComb, Henry G., New York, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio. Vehicle suspension. 1,689,883; Oct. 30.
McComb, Henry G., New York, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio. Shock absorber. 1,689,884; Oct. 30.
McCormick, William E., assignor to Melodelite Corporation, New York, N. Y. Portable electric light. Des. 76,759; Oct. 30.
McElroy, Frank, Manchester, assignor to J. H. Tucker & Company, Limited, Birmingham, England. Electric switch. 1,689,495; Oct. 30.
McGill Manufacturing Company. (See Despard, Victor R., assignor.)
McIntyre, Allan H. (See Wayland, E. M., and McIntyre.)
McKee, Neal T., Bronxville, N. Y. Locomotive. 1,689,353; Oct. 30.
McKenna, James R., Cleveland, Ohio. Forming combined paper and fabric material. 1,689,354; Oct. 30.
McKesson & Robbins, Incorporated. (See Danco, Leon A., assignor.)
McKinnis, John R., San Bernardino, Calif. Railway switch and lock mechanism. 1,689,288; Oct. 30.
McLean, Thomas A. (See McLean, William R., assignor.)
McLean, William R., assignor of one-half to T. A. McLean, Lower Napan, New Brunswick, Canada. Traction attachment for automobiles. 1,689 885; Oct. 30.
McMillan, Theresa, Chicago, Ill. Hair-waving device. 1,689,355; Oct. 30.
McWane, James R., Birmingham, Ala. Supporting core bars in flasks. Re17,121; Oct. 30.
Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas range. 1,689,955; Oct. 30.
Mead, Samuel N., jr. (See Jones, J. S., and Mead.)
Meaker, John W., Evanston, Ill. Coating wire fabric. 1,689 792; Oct. 30.
Mears, David C., assignor of one-tenth to A. J. Mouchou, Oakland, Calif. Automatic train control. 1,689,738; Oct. 30.
Mechanical Rubber Company, The. (See McComb, Henry G., assignor.)
Meeker, Charles R., assignor to Oil Well Supply Company, Pittsburgh, Pa. Well packer. 1,689,956; Oct. 30.
Meents, Adolf J., Albert City, Iowa. Combined shovel, hoe, and rake. 1,689,886; Oct. 30.
Meerwein, Hans, Konigaberg in Prussia, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Producing complex metal alcoholates. 1,689,356; Oct. 30.
Meier & Weichelt. (See Schuz, Emil, assignor.)
Melodelite Corporation. (See McCormick, William E., assignor.)
Mercantile Trust Company, executor. (See Stocker, George J.)
Merco Nordstrom Valve Company. (See Nordstrom Sven J., assignor.)
Merrell, Irving S., Syracuse, assignor, by mesne assignments, to Merrell-Soule Company, Inc., New York, N. Y. Food product. 1,689,357; Oct. 30.
Merrell-Soule Company. (See Merrell, Irving S., assignor.)
Merriman, Lewis E., Salina, Kans., assignor to The Merriman Manufacturing Corporation, Fort Wayne, Ind. Ironing board. 1,689,445; Oct. 30.
Merriman Manufacturing Corporation, The. (See Merriman, Lewis E., assignor.)
Metal Office Furniture Co. (See Wege, Peter M., assignor.)
Metal Textile Corporation. (See Kingman, Russell B., assignor.)
Metropolitan-Vickers Electrical Company Limited. (See Robinson, Ernest Y., assignor.)
Mettler, Carl, assignor to the firm J. R. Geigy A. G., Basel, Switzerland. Diphenylmethane azo dyestuffs and making same. 1,689,739; Oct. 30.
Mettler, Carl, assignor to the firm J. R. Geigy A. G., Basel, Switzerland. Ditolylmethane azo-dyestuffs and making same. 1,689,740; Oct. 30.
Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. 1,689,926; Oct. 30.
Meyers, Roy L., Janesville, Wis. Heating drum. 1,689,838; Oct. 30.
Michell, Anthony G. M. (See Seng, M., and Michell.)
Michell-Crankless Engines Corporation. (See Seng, M., and Michell, assignors.)
Midgley, Norman H., Newton Center, Mass. Process of and apparatus for preparing textile fiber for spinning. 1,689,289; Oct. 30.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Applying breaker strips in the manufacture of tire casings. 1,689,793; Oct. 30.
Miller, William, assignor to Victor Valves, Inc., Omaha, Nebr. Dispensing valve. 1,689,636; Oct. 30.
Miles, William C., New York, N. Y. Transmission. 1,690,080; Oct. 30.
Mill Devices Company. (See Byrd, Britton E., assignor.)
Miller, Daniel D., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Magnetic shield. 1,689,358; Oct. 30.
Miller, Felix B., assignor to Fillkwik Company, Attleboro, Mass. Compact container. 1,689,359; Oct. 30.
Miller, Leonard. (See Juhlin, G. A., and Miller.)
Miller, William H., and H. G. Thompson, Cleveland, Ohio. Mixing device. 1,689,446; Oct. 30.
Mills, George W., jr., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Shingle. 1,689,290; Oct. 30.
Milwaukee Valve Company. (See Fraser, John, jr., assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Miskewicz, Joseph B., Pittsburgh, Pa. Wringer. 1,690,026; Oct. 30.
Misrachi, Albert, Mexico, Mexico. Display and storage rack. 1,689,741; Oct. 30.
Mitchell-Rand Mfg. Co. (See Lawrence, Joseph T., assignor.)
Mitchell, Walter C., St. Louis, Mo. Steam and liquid control mechanism. 1,689,249; Oct. 30.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing machines. 1,689,957; Oct. 30.
Monnot, Robert, Cilchy, France. Grease-gun-filling device. 1,689,360; Oct. 30.
Moore Brothers Company. (See Moore, L., and Dibble, assignors.)
Moore, Lewis, and C. M. Dibble, assignors to Moore Brothers Company, Joliet, Ill. Reversible stove. 1,689,447; Oct. 30.
Moore, Whitley B., assignor to The Timkin Roller Bearing Company, Canton, Ohio. Conveyer roller. 1,689,496; Oct. 30.
Moorhead, Thomas E. (See Senger, J. W., Reed, and Moorhead.)
Moors, Sue Y. (See Moors, Walter C., assignor.)
Moors, Walter C., deceased; W. Y. Moors, administrator, assignor to S. Y. Moors, Owensboro, Ky. Ironing table. 1,689 887; Oct. 30.
Moors, Walter Y., administrator. (See Moors, Walter C.)
Mordecai, Walter C., Kew Gardens, N. Y. Advertising device. 1,689,637; Oct. 30.

Morgal, John F., assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Vacuum cleaner. 1,689,497; Oct. 30.
Moro, Pierre, Marseille, France. Manufacture of cellulose xanthate. 1,689,958; Oct. 30.
Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,689,594; Oct. 30.
Morris, Andrew P., assignor of one-tenth to C. F. Sentell, Snyder, Tex. Double-acting pump. 1,689,794; Oct. 30.
Morris, Elmer C., Chicago, Ill. Paper napkin or the like. 1,689,742; Oct. 30.
Mothproof Rug Bag Company. (See Granger, Gertrude V., assignor.)
Mottaz, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal-control switch. 1,689,795; Oct. 30.
Mouchou, Albert J. (See Mears, David C., assignor.)
Mound City Wood Heel and Mfg. Co. (See Marshall, David O., assignor.)
Mount, William H., Summit, N. J. Shipping and display box. 1,689,959; Oct. 30.
Moynahan, Anna, Cleveland Heights, Ohio. Shopping basket. 1,689,448; Oct. 30.
Mullen, Thomas J., Owensmouth, Calif. Laundry drier. 1,689,743; Oct. 30.
Murray, Thomas E. (See Williams, Herbert H., assignor.)
Musser, Robert B., Seattle, Wash. Refrigerating cars and cars for performing said method 1,689 638; Oct. 30.
Muther, Lorenz. (See Lautenschlager, William F., assignor.)
Myers, Edward C., assignor to Wehr Co., Milwaukee, Wis. Attachment for tractors. 1,689,796; Oct. 30.
Myers, Ernest C., Norwich, Conn. Fixture for shaving off filings in clutch plates. 1,689,797; Oct. 30.
Myers, Lewis C., Freeport, and G. F. Handley, Glendale, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,689,888; Oct. 30.
N. V. Handelmaatschappij Ferlron. (See Levoz, Touesaint, assignor.)
Nash, Charles B., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Lavatory. Des. 76,760; Oct. 30.
Nathan Manufacturing Company. (See Ashe, William O., assignor.)
National Fibreform Company. (See Eaton, Leslie B., assignor.)
Naugle, John J. (See Wickenden, Leonard, assignor.)
Neff, Harry D., Newport, Pa. Extension handle for wrenches. 1,689 639; Oct. 30.
Nelson, Emma, Minneapolis Minn. Mattress carrier. 1,689,960; Oct. 30.
Nelson, Frank O., Tekoa, Wash. Valve. 1,690,027; Oct. 30.
Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,690 028; Oct. 30.
Neuroth, John, assignor to The Prosperity Company Inc., Syracuse, N. Y. Pressing-machine-operating mechanism. 1,689,744; Oct. 30.
New Departure Manufacturing Company, The. (See Brown, Raymond L., assignor.)
Newhouse, Ray C., Wauwatosa, Wis. Process of and apparauts for transferring heat. 1,689,927; Oct. 30.
Newman, A. L., Company. (See Newman, Almyr L., assignor.)
Newman, Almyr L., Warwick, assignor to A. L. Newman Company, Providence, R. I. Fastening device for wristwatch straps, bands, and bracelets. 1,689,640; Oct. 30.
Newport Company, The. (See Adams, R., and Hyde, assignors.)
Newspaper Stuffing Machine Company, The. (See Halvorsen, Severin, assignor.)
Nichols, Edgar B., Rochester, N. Y. Drive chain. 1,689,556; Oct. 30.
Nichols, Mark L., Auburn, Ala., assignor to Alabama Power Company. Steam generator. 1689,745; Oct. 30.
Nieberding, Frank A., deceased; M. H. Nieberding, administratrix, East Cleveland, Ohio. Burner. 1,689,798; Oct. 30.
Nieberding, Margaret H., administratrix. (See Nieberding, Frank A.)
Noack, Theodore J., assignor of one-half to G. Ketcham, Phoenix, Ariz. Mowing machine. 1,689,402; Oct. 30.
Noble, Warren, Detroit, Mich. Valve guide. 1,690,029; Oct. 30.
Noble, Warren, Detroit, Mich. Internal combustion engine. 1,690 030; Oct. 30.
Noble, Warren, Detroit, Mich. Air-bleed valve for hydraulic actuating means. 1,690,033; Oct. 30.
Noble, Warren, Detroit, Mich. Variable propeller. 1,690 034; Oct. 30.
Noble, Warren, and L. V. Pittman, Detroit, Mich.; said Pittman assignor to said Noble. Valve-operating system. 1,690,031; Oct. 30.
Noble, Warren, and L. V. Pittman, Detroit, Mich.; said Pittman assignor to said Noble. Hydraulic valve gear. 1,690,032; Oct. 30.
Nordell, Carl H., Fort Wayne, Ind., assignor to The Permutit Company. Feeding fluid by intermittent changes of fluid pressure. 1,689,557; Oct. 30.
Nordstrom, Sven J., Saratoga, assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,689,799; Oct. 30.
Norton, Allen B., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Metal mold and method of casting. 1,689,595; Oct. 30.
Norton, Eva B., New York, N. Y. Irrigator. 1,689,746; Oct. 30.
Nunes, Roland, Corona, Calif. Adjustable hose clamp for milking machines. 1 689,889; Oct. 30.
O. K Tool Company, The. (See Severson, Ole, assignor.)
O-Cedar Corp'n. (See Welling, Matthew J., assignor.)
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,689,291; Oct. 30.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,689,449; Oct. 30.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Antifriction bearing. 1,689,450; Oct. 30.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, I.l. Friction shock-absorbing mechanism. 1,689,451; Oct. 30.
Ogush, Benjamin, assignor to Katz & Ogush, Inc., New York, N. Y. Fastening device for wrist watches. 1,689,251; Oct. 30.
Ohio Match Company, The. (See Parker, Lucian E., assignor.)
Oil Conservation Engineering Company, The. (See Brooks, Stephen H., assignor.)
Oil Jack, Inc. (See Pedersen, Thomas W., assignor.)
Oil Well Supply Company. (See Meeker, Charles R., assignor.)
Oilgear Company, The. (See Ferris, Walter, assignor.)
Olson, Robert C., Zion, Ill. Bung. 1,689,403; Oct. 30.
Olson, Robert W., assignor of one-half to M. W. Keith, Amboy, Minn. Scraper. 1,689,747; Oct. 30.
Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Forming or working spherical surfaces, concave or convex. 1,689,928; Oct. 30.
O'Neill, Augustine G., and C. M. Jones, Tulsa, Okla. Liquid container. 1,690,035; Oct. 30.
O'Neill, Henry W., Brooklyn, assignor to Western Electric Company, Inc., New York, N. Y. Navigation-directing system. 1,689,292; Oct. 30.
Oppé, Alfred, Aachen, Germany. Making nikall-metal hypochlorites. 1,689,748; Oct. 30.
Oppenheimer, Herbert, New York, N. Y. Oil distributor. 1,689,680; Oct. 30.
Osborne, Robert L., assignor to Dongan Electric Manufacturing Company, Detroit, Mich. Transformer. 1,689 929; Oct. 30.
Osbourne, Thomas D., et al. (See Weeks, Charles S., assignor.)
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,689,596; Oct. 30.
Oswald, Arthur A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,689,293; Oct. 30.
Oxweld Acetylene Company. (See Becket, Frederick M., assignor.)
Pacent Electric Company. (See Pacent, Louis G., assignor.)
Pacent, Louis G. Winfield, assignor to Pacent Electric Company, Inc., New York, N. Y. Variable-control device. 1,690,077; Oct. 30.
Packer, James M. (See Packer, Mortimer L. and J. M.)
Packer, Mortimer L. and J. M., Columbus, Ohio. Cooking range. 1 690,036; Oct. 30.
Paget, Harold F. (See Haines, J., jr., and Paget.)
Paldar, Emil J., Co. (See Emmert, J. R., and Pozdro, assignors.)
Parker, Howard, assignor to Brown Company, Berlin, N. H. Method of and apparatus for molding reducers for fibrous conduits. 1 689,533; Oct. 30.
Parker, King L., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Oil cup. 1,689,800; Oct. 30.
Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Elevator or transfer device. 1,689,839; Oct. 30.
Parker and Waterman Manufacturing Company. (See Jellison, Roscoe B., assignor.)
Parsons Company, The. (See Vaughn, George A., assignor.)
Patnaude, William E., Stoughton, Mass., assignor to The Shallcross Company, Philadelphia, Pa. Dispensing faucet. 1,689,961; Oct. 30.
Patten, Julius, Duisburg, Germany. Shin-bone-protecting shield for sports. 1,689,558; Oct. 30.
Peale, Rembrandt, et al., trustees. (See Davis, Kenneth, assignor.)
Peale, Richard, et al., trustees. (See Davis, Kenneth, assignor.)
Peck, Elmer E., Long Beach, Calif. Propelling mechanism for boats. 1,689 962; Oct. 30.
Pederson, Thomas W., assignor to Oil Jack, Inc., New York, N. Y. Fluid-actuated jack. 1,690,037; Oct. 30.
Peerless Pneumatic Systems, Inc. (See Anderson, Swan F., assignor.)
Pelton, B. H., jr. (See Pelton, Benjamin H., assignor.)
Pelton, Benjamin H., Carlshad, Calif., assignor to B. H. Pelton, jr., Casper, Wyo. Concrete mixer and conveyer. 1,689,963; Oct. 30.
Pergeo, Grace G., San Francisco, Calif. Steamer-deck-chair support. 1,689,964; Oct. 30.

Perfex Corporation. (See Young, Fred M., assignor.)
Perkins, Clarence B., Providence, R. I., assignor to Apco Mossberg Corporation, Attleboro, Mass. Piston-ring-compressing tool. 1,689,361; Oct. 30.
Perl, John, New York, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Cracking hydrocarbons. 1,689,362; Oct. 30.
Perl, John, New York, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Cracking hydrocarbon oils. 1,689,363; Oct. 30.
Permutit Company, The. (See Nordell, Carl H., assignor.)
Perrot, Henri, Paris, France, assignor to Bendix Corporation, Chicago, Ill. Vehicle. 1,689,749; Oct. 30.
Petersen, Paul W., Bay City, Mich. Refrigerating method and apparatus. 1,689,905; Oct. 30.
Peterson, Alfred J. A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer-switching system. 1,689,840; Oct. 30.
Peterson, Folke S., Chicago, Ill. Pressure boiler. 1,689,211; Oct. 30.
Petroleum Appliance Syndicate. (See Weisgerber, Edwin C., assignor.)
Pettibone Mulliken Company. (See Powell, Edward W., assignor.)
Pfaudler Co., The. (See Geisinger, Elliott E., assignor.)
Pflager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Journal-box wear plate. 1,689,498; Oct. 30.
Pflimlin, Jules. (See Gégauff, C., and Pflimlin.)
Phi Kappa Tau Fraternity, The. (See Bryant, Frank W., assignor.)
Philadelphia Storage Battery Company. (See Holland, Walter E., assignor.)
Phillips, Walter H., Modesto, Calif. Vine cutter and weeder. 1,689,452; Oct. 30.
Picker, James, New Rochelle, N. Y. X-ray protective glove. 1,689,212; Oct. 30.
Picking, William T. (See Grosvenor, J. E., and Picking.)
Pickles, Charles, assignor to American Can Company, San Francisco, Calif. Vacuumizing and double seaming. 1,689,641; Oct. 30.
Picture Transmission Corporation. (See Ferree, M., and Wissmar, assignors.)
Pierce, Hodgson S. (See Link, V., and Pierce.)
Pierce, Walter H., assignor to Carr Fastener Company, Cambridge, Mass. Nut and screw fastening. 1,690,078; Oct. 30.
Pigeon, Albert M., Philadelphia, assignor to Wildman Mfg. Co., Norristown, Pa. Circular-knitting machine. 1,689,681; Oct. 30.
Pike, Robert D. (See Pike, R. D., West, and Little, assignors.)
Pike, Robert D., Piedmont, G. H. West, Berkeley, and B. P. Little, Oakland, Calif.; said West and Little assignors to said Robert D. Pike. Cell for electrodeposition of metals. 1,689,507; Oct. 30.
Pisl, Unito, Philadelphia, Pa. Steam boiler. 1,689,966; Oct. 30.
Pittman, Leon Y. (See Noble, W., and Pittman.)
Place, Roland P., Midland, Mich. Emery-wheel dresser. 1,689,930; Oct. 30.
Place, Roland P., Midland, Mich. Hood catch. 1,689,931; Oct. 30.
Planet Company, The. (See Gowdy, Harry M., assignor.)
Platt, Herbert. (See Dreyfus, C., and Platt.)
Polk, Thomas B., Seattle, Wash., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield-wiper actuator. 1,689,967; Oct. 30.
Pope, Arthur W., jr., assignor to Waukesha Motor Company, Waukesha, Wis. Valve tappet. 1,689,801; Oct. 30.
Porcelain Enamel & Manufacturing Co., The. (See Turk, Heinrich, assignor.)
Porcelier Manufacturing Company. (See Dym, Jacob, assignor.)
Pospiech, Friedrich. (See Sajitz, R., and Pospiech.)
Postum Company. (See Young, William C., assignor.)
Potts, Louis M., Tenafly, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Remote control and indicating system. 1,689,294; Oct. 30.
Potts, Louis M., Tenafly, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraph. 1,689,295; Oct. 30.
Pounds, Hoyle, Winter Garden, Fla. Wheel construction. 1,689,968; Oct. 30.
Powell, Edward W., Chicago, assignor to Pettibone Mulliken Company, Chicago, Ill. Shock absorber. 1,689,841; Oct. 30.
Pozdro, John J. (See Emmert, J. R., and Pozdro.)
Pressed Steel Tank Company. (See Wilcox, Harry C., assignor.)
Proctor, Barton A., assignor, by mesne assignments, to The Automatic Advertiser, Incorporated, New York, N. Y. Film-projection machine. 1,689,802; Oct. 30.
Producto Machine Company, The. (See Marsilius, Newman M., assignor.)
Prosperity Company Inc., The. (See Clisson, Albert B., assignor.)
Prosperity Company, The. (See Neuroth, John, assignor.)
Pye, Harold C., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone substation circuits. 1,689,598; Oct. 30.
Quick, Brunnie W., Poughkeepsie, N. Y., assignor to American Machine & Foundry Company. Timing device for package-wrapping machines. 1,689,404; Oct. 30.
Racine Confectioners' Machinery Company. (See Krout, Ray W., assignor.)
Radcliffe, James A., Jersey City, N. J. Puzzle. 1,689,364; Oct. 30.
Rader, Earl D., Bedford Township, West Chester County, assignor to Dexter Folder Company, New York, N. Y. Folding machine. 1,690,038; Oct. 30.
Radio Corporation of America. (See Manley, Lee L., assignor.)
Raettig, Bruno, Hoffnungsthal, near Cologne, Germany. Automatic starting device for alternate-current motors. 1,689,559; Oct. 30.
Rainey, Austin E., Grove city, Pa. Toy wagon. 1,689,682; Oct. 30.
Ramage, Alexander S., Detroit, Mich. Peroxide of hydrocarbon and making the same. 1,689,599; Oct. 30.
Rancourt, Walter J., Boston, Mass. Tap-splitting machine. Re17,122; Oct. 30.
Randecker, Leonard E., assignor to Hammermill Paper Company, Erie, Pa. Pulp beater. 1,689,932; Oct. 30.
Randolph, Le Moine F., Chicago, Ill. Self-closing bag. 1,689,453; Oct. 30.
Rappleyea, George W., New Orleans, La. Sectional-built portable house. 1,689,642; Oct. 30.
Raschick, Charles T., St. Paul, Minn. Check-notching device. 1,689,252; Oct. 30.
Rauschenberg, Sidney, San Diego, Calif. Impigmented exfoliated shell and prodncing the same. 1,689,842; Oct. 30.
Ranscher, Joseph A. (See Conly, John A., assignor.)
Rectobar Manufacturing Company. (See Rector, Adam A., assignor.)
Rector, Adam A., San Francisco, Calif., assignor to Rectobar Manufacturing Company, Reno, Nev. Drawbar. 1,689,454; Oct. 30.
Redding, Orrion D., assignor to The Valve Equipment Company, Columbus, Ohio. Valve for high-pressure and high-temperature purposes. 1,689,296; Oct. 30.
Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Adjustable support for stationary shafts. 1,689,750; Oct. 30.
Redmer, Frank M., assignor of forty-nine one hundredths to C. W. Hass, Norfolk, Nebr. Snowplow. 1,689,683; Oct. 30.
Reed, Eugene J. (See Hill, T. W., and Reed.)
Reed, Forrest C., San Francisco, Calif. Catalytic apparatus for the synthesis of ammonia. 1,689,684; Oct. 30.
Reed, James. (See Senger, J. W., Reed, and Moorhead.)
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Bench machine. 1,689,685; Oct. 30.
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Indicator. 1,689,686; Oct. 30.
Reid, James D. (See Davis, H. F., and Reid.)
Reid, John, assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Lubricating device. 1,689,560; Oct. 30.
Reid, Joseph, Gas Engine Company. (See Reid, John, assignor.)
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric-machine rotor. 1,689,490; Oct. 30.
Rengler, Lynn H., Long Beach, Calif. Drive unit for tandem aircraft engines. 1,689,751; Oct. 30.
Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Vacuum device and exhausting same. 1,689,297; Oct. 30.
Renz, Friedrich. (See Schraysshuen, C., and Renz.)
Replogle, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Refrigerated food cabinet. 1,689,933; Oct. 30.
Reserve Holding Company. (See Wicks, John, assignor.)
Reynolds, George, Anderson, Ind. Spring hinge for pulp screens. 1,689,687; Oct. 30.
Rice, Harold G., Chicago, Ill. Bottle capper. 1,689,298; Oct. 30.
Rich, Perry D. (See Sapp, James E., assignor.)
Richardson, John H., Melrose, and A. E. Hudson, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Relasting machine. 1,689,600; Oct. 30.
Richardson, John H., Melrose, and A. E. Hudson, Berverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Sole-forming machine. 1,689,601; Oct. 30.
Richter, George A., assignor to Brown Company, Berlin, N. H. Cyclic process for the manufacture of kraft pulp. 1,689,534; Oct. 30.
Richter, William H. (See Kingsford, R. T., and Richter.)
Ringel, Charles, North Hawthorne, N. J., assignor to The Superheater Company, New York, N. Y. Throttle valve. 1,689,299; Oct. 30.
Robb, Walter Y., Whitinsville, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for looms. 1,689,688; Oct. 30.
Roberts, Carroll J., et al. (See Williams, John F., assignor.)
Roberts, Samuel J., Scranton, Pa. Desk cover. 1,689,890; Oct. 30.
Robinson, Edward A., assignor to himself and E. E. Workman, Montreal, Canada. Adjustable train-pipe connecter. 1,689,909; Oct. 30.
Robinson, Ernest Y., Manchester, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Vacuum tube and the like. 1,689,970; Oct. 30.

Robinson, Ernest Y., Withington, Manchester, England, assignor to Metropolitan-Vickers Electrical Company Limited. Vacuum electric-tube device. 1,689,971; Oct. 30.
Roche, Emile M., Castelnau-le-Lez, assignor to Urbain Bellony Voisin, Cette, France. Producing calcium aluminate cement. 1,689,891; Oct. 30.
Roddick, Russell M., Pasadena, Calif. Dispensing apparatus. 1,689,561; Oct. 30.
Rode, Fredrich, J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Sheet-metal-working press. 1,689,500; Oct. 30.
Rode, Fredrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Mechanical locking device for pressure pads. 1,689,501; Oct. 30.
Roemer, Fritz. (See Kränzlein, G., and Roemer.)
Rogers, Homer L., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Track pavement. 1,689,300; Oct. 30.
Rolfe, George B., assignor to Eversheds & Vignoles, Limited, London, England. Electric generator. 1,689,934; Oct. 30.
Roll-A-Way Bed Corporation. (See Matheson, William A., assignor.)
Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
Root, Frank B., assignor to Flood & Conklin Company, Newark, N. J. Wrinkling finish. 1,689,892; Oct. 30.
Roper, Denney W. (See Buck, N. E., Roper, and Thoms.)
Ross, Chester G., Glendale, Calif. Internal-combustion engine. 1,689,689; Oct. 30.
Ross, Oscar A., New York, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system or the like. 1,689,253; Oct. 30.
Ross, Warren A., Long Beach, Calif., assignor of one-fourth to D. M. Carter, Chicago, Ill., and one-fourth to T. O. Boyd, Long Beach, Calif. Drilling apparatus. 1,689,455; Oct. 30.
Rothgarn, Andrew E., assignor to S. C. Clow, Minneapolis, Minn. Grain separator. 1,689,972; Oct. 30.
Rovick, Max I., Chicago, Ill. Ballet slipper. 1,689,535; Oct. 30.
Royal Typewriter Company. (See Myers, L. C., and Handley, assignors.)
Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Internal-combustion engine. 1,689,893; Oct. 30.
Rubber Latex Research Corporation. (See Day, Morgan R., assignor.)
Rubber Latex Research Corporation, The. (See Wescott, William B., assignor.)
Rudolph, Alfred J., Philadelphia, Pa. Holding device. 1,689,643; Oct. 30.
Ruppel, Frederick C., Grand Rapids, assignor to Hudson Motor Car Company, Detroit, Mich. Radiator cap. Des. 76,761; Oct. 30.
Ruppel, Frederick C., Grand Rapids, assignor to Hudson Motor Car Company, Detroit, Mich. Radiator cap. Des. 76,762; Oct. 30.
Rushmore, Samuel W., Plainfield, N. J. Lubricating system for internal-combustion engines. 1,689,752; Oct. 30.
Rutter, Argyle R., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnet structure. 1,689,843; Oct. 30.
Ryckman, Andrew, Chicago, Ill. Can opener. 1,689,301; Oct. 30.
Ryder, Frank P., Niagara Falls, N. Y. String-bean grader. 1,689,254; Oct. 30.
Sabbah, Camil A., Schenectady, N. Y., assignor to General Electric Company. Rectifying system. 1,689,502; Oct. 30.
Sajitz, Rudolf, and F. Pospiech, assignors to Chemische Fabrik Pott & Co., Dresden, N. Germany. Spinning artificial filaments. 1,689,894; Oct. 30.
Sandin, Arthur L., assignor of one-half to C. J. Blue, Bismarck, N. Dak. Attachment for spark plugs. 1,689,690; Oct. 30.
Sanford, Alfred F., Knoxville, Tenn. Radio apparatus. 1,689,602; Oct. 30.
Sanford, Alfred F., Knoxville, Tenn. Radio apparatus. 1,689,603; Oct. 30.
Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Vehicle brake mechanism. 1,689,255; Oct. 30.
Sapp, James E., assignor of one-half to P. D. Rich, Bainbridge, Ga. Bottle-dispensing refrigerator. 1,689,256; Oct. 30.
Savage, Marion A., Scotia, N. Y., assignor to General Electric Company. Stator construction. 1,689,503; Oct. 30.
Sawyer, Emerson D., Chicago, Ill. Yieldable barrier with mechanical stop signal. 1,689,257; Oct. 30.
Schaefer, Clarence A., Davenport, Iowa. Radio indicating device. 1,689,405; Oct. 30.
Schaefer, Friedrich, St. Gall, Switzerland. Cord-sealing device. 1,689,691; Oct. 30.
Schaper, Harry C., assignor to The Weight-O-Graph Company, St. Louis, Mo. Weight-indicating scale. 1,689,753; Oct. 30.
Schering-Kahlbaum, A. G. (See Schoeller, W., and Alardt, assignors.)
Scheunert, Alfred, Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,689,213; Oct. 30.
Schmidt, Hermann, Wiesdorf-on-the-Rhine, and E. Hubert, Elberfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the Main, Germany. Spinning artificial silk. 1,689,895; Oct. 30.
Schmohl, Alfred C., Beaver Falls, and J. P. Anderson, Koppel, assignors to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Dump-car-body-tilting bearing. 1,689,365; Oct. 30.
Schoeller, Walter, Berlin-Westend, and H. G. Allardt, Berlin-Reinickendorf-West, assignors to the firm Schering-Kahlbaum A. G., Berlin, Germany. Metal mercapto acid esters and making same. 1,689,366; Oct. 30.
Schraysshuen, Carl, and F. Renz, assignors to Speidel Chain Co., Providence, R. I. Chain band. 1,689,367; Oct. 30.
Schroeder Oscar C. Chicago, Ill. Controlling mechanism for oil burners. 1,689,803; Oct. 30.
Schroeter, George A. (See Marteau, R. L., and Schroeter.)
Schüfftan, Eugen, Berlin Wilmersdorf, Germany. Making motion pictures. 1,690,039; Oct. 30.
Schuz, Emil, Leipzig-Grosszschrocher, assignor to the firm of Meier & Weichelt, Leipzig-Lindenau, Germany. Metallurgical product and producing same. 1,689,456; Oct. 30.
Schweitzer & Conrad, Inc. (See Conrad, Nicholas J., assignor.)
Scovill Manufacturing Company. (See King, George A., assignor.)
Scovill Manufacturing Company. (See Warner, Frank E., assignor.)
Scruby, Sydney V. C., B. A. Turkhud, and F. de Fremery, Antwerp, Belgium, assignors, by mesne assignments, to Western Electric Company, Incorporated. Recording means for busy telephone lines. 1,689,406; Oct. 30.
Segal, Irving H., Detroit, Mich. Finger ring. Des. 76,763; Oct. 30.
Segal Lock & Hardware Co., Inc. (See Segal, Samuel, assignor.)
Segal, Samuel, assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Lock. 1,689,804; Oct. 30.
Seides, Samuel, New York, N. Y. Badge. Des. 76,764; Oct. 30.
Seigle, William R., assignor to Johns-Manville Corporation, New York, N. Y. Composite sheet material. 1,690,079; Oct. 30.
Seitz, Xaver, Emmishofen, Switzerland. Folding hood for carriage bodies. 1,689,896; Oct. 30.
Selden Company, The. (See Cannon, F. A., and Andrews, assignors.)
Sell, Helmut, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin and elsewhere, Germany. Aural telephone system. 1,689,692; Oct. 30.
Seneca Falls Machine Co. (See Ashton, Richard A., assignor.)
Seng, Manfred, Berlin, Germany, and A. G. M. Michell, Melbourne, Victoria, Australia, assignors to Michell-Crankless Engines Corporation, New York, N. Y. Supercharger internal-combusion engine and method of supercharging. 1,690,080; Oct. 30.
Senger, John W., J. Reed, and T. E. Moorhead, Cleveland, Ohio. Electric lamp. 1,689,457; Oct. 30.
Sentell, C. Frank. (See Morris, Andrew P., assignor.)
Serra, Luigi, Rome, Italy. Bearing device for rails on sleepers of reenforced cement. 1,689,754; Oct. 30.
Severson, Ole, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Cutter for planing gear teeth. 1,689,973; Oct. 30.
Seymour, Clarence E. and J. D., and P. C. Davis, Mansfield, Ohio. Door and window casing construction. 1,689,897; Oct. 30.
Seymour, Joseph D. (See Seymour, Clarence and J. D., and Davis.)
Seymour, Merrill W., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for photographic color processes. 1,689,258; Oct. 30.
Shackleton, William. (See Hammond, Cecil F., assignor.)
Shallcross Company, The. (See Patnaude, William E., assignor.)
Shallcross, Herbert L., Philadelphia, Pa. Valve. 1,689,974; Oct. 30.
Shapley, Cooper, Bishop, Calif. Flotation process. 1,689,693; Oct. 30.
Shears, Sumner S., Brooklyn, N. Y., and E. R. Wilson, Peterboro, Ontario, Canada; said Wilson assignor to said Shears. Vehicle spring. 1,689,458; Oct. 30.
Shredy, John, Seattle, Wash. Reenforcing bar. 1,689,504; Oct. 30.
Sheet Steel Products Company. (See Baxter, Kenneth S., assignor.)
Shepard, Frederick J., jr., Auburndale, and N. Warshaw, Boston, assignors to Lewis-Shepard Company, Watertown, Mass. Portable load carrying and hoisting machine. 1,689,259; Oct. 30.
Shuell, Frank W., assignor to The Ever Hot Heater Co., Detroit, Mich. Water heater. 1,689,935; Oct. 30.
Siemens & Halske Aktiengesellschaft. (See Albrecht, Dieter, assignor.)
Siemens & Halske Aktiengesellschaft. (See Feldtkeller, Richard, assignor.)
Siemens & Halske Aktiengesellschaft. (See Sell, Helmut, assignor.)
Siemens & Halske Aktiengesellschaft Wernerwerk. (See Scheunert, Alfred, assignor.)

Silverston, Anthony R., assignor to Coke Reclamation Corporation, New York, N. Y. Separation apparatus and process. 1,689,536; Oct. 30.
Simplex Paper Corporation. (See Wood, Frederick P., assignor.)
Sinclair Refining Company. (See Perl, John, assignor.)
Singer Manufacturing Company, The. (See Waterman, M. L., and Fleckenstein, assignors.)
Skaer, Arthur H., T. E. Barker, and O. E. Clark, Denver, Colo., assignors, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Mounting for drums and the like. 1,689,407; Oct. 30.
Skaer, Arthur H., Denver, Colo., assignor, by mesne assignments to The Gardner-Denver Company, Quincy, Ill. Drill-steel retainer. 1,689,408; Oct. 30.
Skayef Ball Bearing Company, The. (See Styri, Haakon, assignor.)
Skinner-Hill Co. (See Fielding, Walter J., assignor.)
Slepian, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telephone transmitter. 1,689,844; Oct. 30.
Sloan, Theodore H., Charleroi, assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Glass-forming machine. 1,689,975; Oct. 30.
Small, James W., Chicago, Ill. Automobile windshield wiper. 1,689,214; Oct. 30.
Small, William E., Brooklyn, N. Y. Heel-building machine. 1,689,459; Oct. 30.
Smith, Burgess W., assignor to The Todd Company, Inc., Rochester, N. Y. Safety paper. 1,689,302; Oct. 30.
Smith, Francis J., Gary, Ind. Leaf spring. 1,689,303; Oct. 30.
Smith, James T. (See Taylor, H. W., and Smith.)
Smith, Joel, jr., Byron, Okla. Vehicle tire rim. 1,689,898; Oct. 30.
Smith, John R. C., Victoria, British Columbia, Canada. Internal-combustion-engine cylinder head. 1,689,304; Oct. 30.
Smythe, George W., et al. (See Weeks, Charles S., assignor.)
Societe Anonyme Stenotype Grandjean. (See Grandjean, Marc, assignor.)
Sombco, Inc. (See Bornstein, Joseph, assignor.)
Sonoco Products Company. (See Dunlap, Charles K., assignor.)
Sorensen, Clarence S., Los Angeles, Calif. Power transmission. 1,689,537; Oct. 30.
Sosdian, Lorenz, Asbury Park, N. J. Auto axle-frame lock. 1,690,040; Oct. 30.
Southwestern Pipe Joint & Engineering Co., The. (See Ambruster, Fred C., assignor.)
Spano, Salvatore, Ensley, Ala. Padlock. 1,689,305; Oct. 30.
Speidel Chain Co. (See Schraysshuen, C., and Renz, assignors.)
Spelling, Thomas C., Chicago, Ill. Printing press. 1,689,562; Oct. 30.
Spire, William H., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Drag link. 1,689,215; Oct. 30.
Spoor, John R., Kalamazoo, Mich. Stock-regulating mechanism for paper-making machines. 1,689,755; Oct. 30.
Standard Oil Company. (See Watts, George W., assignor.)
Standard Oil Development Company. (See Johnson, Cleon R., assignor.)
Standard Oil Development Company. (See Kraus, C. A., and Calda, assignors.)
Standard Sanitary Manufacturing Company. (See Frankenberger, Fred W., assignor.)
Standard Sanitary Manufacturing Company. (See Nash, Charles B., assignor.)
Standard Textile Products Company, The. (See Dieck, Henry W., assignor.)
Stark, Irene S. (See Ehardt, J., and Stark, assignors.)
Stark, Ludwig. (See Ehardt, J., and Stark.)
Steele, John B., Boone, N. C. Wire-stretcher clamp. 1,689,306; Oct. 30.
Steere, Harry A., San Francisco, Calif. Electric popcorn popper. Des. 76,765; Oct. 30.
Stein, Harry B., Chicago, Ill. Transom-operating means. 1,689,307; Oct. 30.
Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Hydraulic back rest. 1,689,409; Oct. 30.
Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Hydraulic foot stock. 1,689,410; Oct. 30.
Steinruck, Herman. (See Filzer, Christian G., assignor.)
Stephan, Karl, Berlin-Charlottenburg, assignor to the firm Chemische Fabrik auf Actien (vorm. E. Schering.), Berlin, Germany. Printing ink. 1,689,368; Oct. 30.
Stephenson, D. K. (See Keith, Charles W., assignor.)
Stern, Charles, and J. J. Carlock, assignors to B-S Manufacturing Corporation, Jersey City, N. J. Railway journal-oiling device. 1,689,411; Oct. 30.
Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic hammer. 1,689,805; Oct. 30.
Stevens, Richard H., Melrose Park, Pa., assignor to Bethlehem Steel Company. Furnace and method of operating the same. 1,689,563; Oct. 30.
Stevenson, William M. (See Swangren, Edwin V., assignor.)
Stickney, Charles A., assignor to Stickney Hydraulic Co., Rockford, Ill. Hand-controlled water softener. 1,689,308; Oct. 30.
Stickney Hydraulic Co. (See Stickney, Charles A., assignor.)
Stimpson, Walter F., Louisville, Ky. Beam scale. 1,689,976; Oct. 30.
Stirton, David M., San Francisco, Calif. Garment supporter. 1,689,977; Oct. 30.
Stocker, George J., deceased; Mercantile Trust Company, executor, St. Louis, Mo. Water-distributing means for cooling towers and the like. 1,690,092; Oct. 30.
Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. 1,689,250; Oct. 30.
Storch, Henry H. (See Ganger, A. W., and Storch.)
Strand, Irwin F., Benson, Minn. Brake. 1,689,412; Oct. 30.
Straw Ballast Distributer Corporation. (See Straw, Bernard W., assignor.)
Straw, Bernard W., Mount Airy, Md., assignor to Straw Ballast Distributer Corporation, Wilmington, Del. Ballast spreader. 1,689,694; Oct. 30.
Straw, Bernard W., Mount Airy, Md., assignor to Straw Ballast Distributer Corporation, Wilmington, Del. Ballast-spreading device. 1,689,806; Oct. 30.
Strombach, Julius, Maplewood, assignor to Colonial Stamping Company, Newark, N. J. Clothesline reel. 1,689,695; Oct. 30.
Strootman, John, Buffalo, N. Y. Cushion arch support. 1,689,260; Oct. 30.
Studebaker Corporation, The. (See Link, V., and Pierce, assignors.)
Stumpf, Walter, Baltimore County, assignor to The Black and Decker Manufacturing Company, Towson, Md. Rivet-spinning attachment. 1,689,460; Oct. 30.
Styri, Haakon, Philadelphia, Pa., assignor to The Skayef Ball Bearing Company, Hartford, Conn. Cage for roller bearings. 1,689,505; Oct. 30.
Subert, Josef and J., jr., Oak Park, Ill. Humidifier for hot-air furnaces. 1,689,936; Oct. 30.
Subert, Joseph, jr. (See Subert, Josef, and J., jr.)
Submarine Signal Corporation. (See Williams, Robert L., assignor.)
Sullivan Machinery Company. (See Gartin, Elmer E., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Summers, Samuel L., Fort Washington, Pa. Ester of salicylic acid and pyruvic acid. 1,689,696; Oct. 30.
Sundquist, John V., Norwood, Mass. Securing device. 1,690,041; Oct. 30.
Superheater Company, The. (See Barnes, John A., assignor.)
Superheater Company, The. (See Griffin, Joseph F., assignor.)
Superheater Company, The. (See Ringel, Charles, assignor.)
Sutter, Josiah H., Wichita, Kans. Heating apparatus. 1,689,937; Oct. 30.
Swangren, Edwin V., Maywood, assignor of one-half to W. M. Stevenson, Evanston, Ill. Mechanism for feeding sheet-metal blanks and the like. 1,689,756; Oct. 30.
Swartley, Harry M., Philadelphia, Pa. Weighing device. 1,689,978; Oct. 30.
Sweets Company of America, Inc., The. (See Ganz, William and H., assignors.)
Sykes, Charles J., assignor to L. J. Brainard, Chicago, Ill. Die-casting machine. 1,690,081; Oct. 30.
Syracuse Washing Machine Corporation. (See Deibaugh, Mark A., assignor.)
Tagliabue, Charles J., Mfg. Co. (See Bast, F. J., and Wilhelm, assignors.)
Tama, Manuel, Messingwerke, near Eberswalde, Germany. Electric furnace for glowing metal bands by induction currents. 1,689,369; Oct. 30.
Tate, Homer E., J. E. King, and H. Barber, Ashland, Ky. Gas-tank cap. 1,689,979; Oct. 30.
Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Apparatus for removing loose particles from the interior of cans. 1,689,757; Oct. 30.
Taylor, Halsey W., Company, The. (See Taylor, H. W., and Smith, assignors.)
Taylor, H. W., Warren, and J. T. Smith, Cleveland; said Smith assignor to The Halsey W. Taylor Company, Warren, Ohio. Apparatus for cooling liquids. 1,689,461; Oct. 30.
Taylor, William H., Memphis, Tenn. Fence panel or similar article. Des. 76,766; Oct. 30.
Tervo, Oscar, Quincy, assignor to Wilfred B. Mathewson, North Weymouth, Mass. Needle for tufting machines. 1,689,413; Oct. 30.
Tesdal, Thomas. (See Warnock, Andrew F., assignor.)
Tessky, Karl, Esslingen, Germany. Machine for generating and marking cams. 1,689,370; Oct. 30.
Texas Company, The. (See Lefevre, Arthur, jr., assignor.)
Texas Gulf Sulphur Company. (See Kobbé, William H., assignor.)
Thomas, David J., Cardiff, and J. L. Vickery, Tonteg Llantwit Vardre, Wales. Device for boshing tinplate and sheet bar sections. 1,689,758; Oct. 30.

Thomas, Ivor D., Palmyra, assignor to The Wellman Seaver Morgan Company, Cleveland, Ohio. Bottom-tilting-door extractor. 1,689,216; Oct. 30.
Thompson, Allison J., Cleveland, Ohio. Lamp hanger. 1,689,938; Oct. 30.
Thompson, Henry G. (See Miller, W. H., and Thompson.)
Thompson Products, Inc. (See Bissell, Richard E., assignor.)
Thompson Products, Incorporated. (See Spire, William H., assignor.)
Thoms, Alexander P. (See Buck, N. E., Roper, and Thoms.)
Thorington, Fletcher, Birmingham, Ala. Radiotransmission of phonographically-recorded sound waves. 1,689,564; Oct. 30.
Thornton, Ernest W., East Orange, assignor to R. B. Davis Company, Hoboken, N. J. Phosphate and process. 1,689,697; Oct. 30.
Time Table Advertiser, Inc., The. (See Waterman, Leon R., assignor.)
Timken Roller Bearing Company, The. (See Abel, Virgil L., assignor.)
Timken Roller Bearing Company, The. (See Moore, Whitley B., assignor.)
Todd, Charles W., Schenectady, N. Y. Lateral-resistance device. 1,689,261; Oct. 30.
Todd Company, The. (See Smith, Burgess W., assignor.)
Toledo Scale Company. (See Hem, Halvor O., assignor.)
Toledo Scale Company. (See Hurt, Samuel N., assignor.)
Toledo Scale Company. (See Reeves, Orwell C., assignor.)
Tornberg, Isidor, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Timing device for pneumatic metal pumps. 1,689,698; Oct. 30.
Toyoda, Kiichiro, Shirakabecho, Nagoya, Japan. Let-off motion in weaving looms. 1,689,506; Oct. 30.
Toyoda, Sakichi, Nagoya, Japan. Taking-up device for circular looms. 1,689,507; Oct. 30.
Trammell, Earl M., assignor to El Paso Sash & Door Co., El Paso, Tex. Kitchen cabinet. 1,689,371; Oct. 30.
Trammell, Earl M., assignor to El Paso Sash & Door Company, El Paso, Tex. Telephone cabinet. 1,689,414; Oct. 30.
Traver, Carl H., Binghamton, N. Y. Hydroplane. 1,689,807; Oct. 30.
Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Protective device. 1,689,508; Oct. 30.
Trbojevich, Nikola, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y. Method of and machine for generating worm gears and the like. 1,689,565; Oct. 30.
Trbojevich, Nikola, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y. Hob. 1,689,566; Oct. 30.
Trico Products Corporation. (See Folberth, Frederick G. and W. M., assignors.)
Trico Products Corporation. (See Polk, Thomas B., assignor.)
Troll, Frederick J., Baltimore, Md., assignor to The Loadometer Company. Load-measuring device. 1,689,644; Oct. 30.
Trotter, Clarence E., and F. J. Couch, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Condensation exhauster for ironing machines and the like. 1,689,462; Oct. 30.
Tucker, J. H., & Company, Limited. (See McElroy, Frank, assignor.)
Turbine Patents Corporation. (See Klimek, Gustav A., assignor.)
Turk, Heinrich, Lutherville, assignor to The Porcelain Enamel & Manufacturing Co., Baltimore, Md. Table. 1,689,645; Oct. 30.
Turkhud, Basil A. (See Scruby, S. V. C., Turkhud, and de Fremery.)
Turner, John D., Birmingham, Ala. Switch bar. 1,689,699; Oct. 30.
Turner, Perry W., Ada, Ohio. Protecting metal, wood, and other substances. 1,689,567; Oct. 30.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electrical feeler in loom transferrer arm. 1,689,700; Oct. 30.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electrical warp stop motion. 1,689,701; Oct. 30.
Tutsch, Rudolf, Berlin, Germany. Cover plate for cable channels and the like. 1,689,646; Oct. 30.
Tyden, Emil, Evanston, Ill. Dry pipe sprinkler-system accelerator. 1,689,980; Oct. 30.
Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Metal rolling. 1,689,463; Oct. 30.
Union Draft Gear Company. (See Cotton, Walter H., assignor.)
Union Hardware Company. (See Hoerle, William F., assignor.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
Union Switch & Signal Company, The. (See Wells, Wesley R., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United Shoe Machinery Corporation. (See Richardson, J. B. and Hudson, assignors.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United Shoe Machinery Corporation. (See Woodcock, Reginald B., assignor.)
United States Gypsum Company. (See Brookby, H. E., and Abameler, assignors.)
United States Hoffman Machinery Corporation, et al. (See Brockett, Bluford W., assignor.)
Urbain Bellony Voisin. (See Roche, Emile M., assignor.)
Urbain Corporation. (See Urbain, Edouard, assignor.)
Urbain, Edouard, Paris, France, assignor to Urbain Corporation. Active carbomineral product. 1,689,647; Oct. 30.
Valve Equipment Company, The. (See Redding Orrion D., assignor.)
Van den Ende, Thomas, Maasdijk, Netherlands. Planting machine for cabbage and other plants. 1,689,262; Oct. 30.
Van Stone, Edward P., Reading, assignor to General Alloys Company, Boston, Mass. Retort. 1,689,808; Oct. 30.
Vanghan, Victor G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic device. 1,689,809; Oct. 30.
Vaughn, George A., assignor to The Parsons Company, Newton, Iowa. Laterally-adjustable excavator-boom structure. 1,689,981; Oct. 30.
Venie, George W., assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Automobile bumper. 1,689,464; Oct. 30.
Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Printing telegraphy. 1,689,263; Oct. 30.
Vickers, Richard N., Smackover, Ark. Fishing tool. 1,689,702; Oct. 30.
Vickery, John L. (See Thomas, D. J., and Vickery.)
Victor Valves, Inc. (See Wilder, William, assignor.)
Victorius, Myer L., New York, N. Y. Looper for hosiery. 1,689,465; Oct. 30.
Vidaver, Maxwell, New York, N. Y. Letter opener. 1,689,703; Oct. 30.
Vissering, Harry, Kenilworth, Ill. Device for controlling and operating locomotive whistles. 1,689,509; Oct. 30.
Vogel, Paul H., New Hartford, assignor to The Chapin-Stephens Company, Pine Meadow, Conn. Level vial holder. 1,689,982; Oct. 30.
Volsin, Urbain B. (See Roche, Emile M., assignor.)
Voleske, John, Portland, Oreg. Shears. 1,689,648; Oct. 30.
Volkerding, Edmund B., St. Louis, Mo. Automobile headlight regulator. 1,689,538; Oct. 30.
Vowell, Asbury C., Little Rock, Ark. Window sash. 1,690,087; Oct. 30.
Vrahoritis, John S., assignor of one-half to S. J. Abromaitis, Detroit, Mich. Elevator stop mechanism. 1,689,264; Oct. 30.
Wackman, Louis B., St. Louis, Mo. Closure seat for metallic containers. 1,689,510; Oct. 30.
Wade, Benjamin H., Chicago, Ill. Making radiator cores. 1,689,568; Oct. 30.
Wadsworth Watch Case Company. (See Wise, Edmund M., assignor.)
Wagenhorst, James H., Jackson, Mich. Rim with valve-stem fastener. 1,689,649; Oct. 30.
Wagenhorst, James H., Jackson, Mich. Automobile wheel. 1,689,650; Oct. 30.
Wagner, Albert P., San Francisco, Calif. Hat pad. 1,689,539; Oct. 30.
Waite Carpet Company. (See Douglass, Agnes, assignor.)
Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for weft-replenishing looms. 1,689,704; Oct. 30.
Walerowicz, Anna, Wyandotte, Mich. Fountain pen. 1,689,569; Oct. 30.
Walker, Albert R., St. Louis, Mo. Corn popping and vending apparatus. 1,689,265; Oct. 30.
Walker, Fletcher L., Westwood, Calif. Manufacturing plywoods. 1,689,705; Oct. 30.
Walter, George F., Brooklyn, assignor to American Can Company, New York, N. Y. Method and apparatus for forming an interiorly beaded or looped tearing-strip can. 1,689,605; Oct. 30.
Wallace, Edwin C., Newton, Mass. Composite paving block. 1,689,415; Oct. 30.
Wallis, Claude L., and J. S. Amrock, Mobile, Ala. Adjustable grate-bar support. 1,689,604; Oct. 30.
Wallis, Walter C., Clovis, N. Mex. Wrench. 1,690,042; Oct. 30.
Wallis, Walter C., Clovis, N. Mex. Boat propulsion. 1,690,043; Oct. 30.
Walter, Edward C., Orange, N. J., assignor to The Elliott-Fisher Company, New York, N. Y. Selecting mechanism for calculating machines. 1,689,651; Oct. 30.
Walter, Edward C., Orange, N. J., assignor to The Elliott-Fisher Company, New York, N. Y. Selective gear transmission for calculating machines. 1,689,983; Oct. 30.
Walton, Raphael, Philadelphia, Pa. Game. 1,689,984; Oct. 30.
Wardell, Henry R., assignor to Johns-Manville, Inc., New York, N. Y. Ready roofing. 1,689,985; Oct. 30
Warner, Arthur W., Media, Pa. Method and apparatus for dehydrating tar. 1,689,309; Oct. 30.
Warner, Frank E., assignor to Scoville Manufacturing Company, Waterbury, Conn. Tack-fastened stud for snap fasteners. 1,690,082; Oct. 30.
Warnock, Andrew F., assignor of one-third to T. Tesdal, Portland, Oreg. Table. 1,689,652; Oct. 30.
Warshaw, Nathaniel. (See Shepard, F. J., jr., and Warshaw.)

Waterman, Leon R., Flushing, assignor to The Time Table Advertiser, Inc., New York, N. Y. Combined time-table, ticket holder, and advertising device. 1,690,083; Oct. 30.

Waterman, Max L., Fairfield, and G. A. Fleckenstein, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Lubricating means for sewing machines. 1,689,310; Oct. 30.

Watrous, Earl G., Chicago, Ill. Flushing valve. 1,689,540; Oct. 30.

Watson, Harry, Yorkshire, England. Projection apparatus and method. 1,689,266; Oct. 30.

Watts, George W., assignor to Standard Oil Company, Whiting, Ind. Distillation. 1,689,606; Oct. 30.

Waukesha Motor Company. (See Pope, Arthur W., jr., assignor.)

Wayland, Edwin M., and A. H. McIntyre, Covesville, Va. Fruit cleaning and polishing machine. 1,689,653; Oct. 30.

Weatherly, Wilson E., Chicago, Ill., assignor to A. G. Bland, Riverton, W. Va. Amplifying attachment for horns of sound reproducing instruments. 1,689,986; Oct. 30.

Weaver, Allan, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Method and apparatus for picture transmission. 1,689,267; Oct. 30.

Weber, Henry C. P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Soldering. 1,689,899; Oct. 30.

Weeks, Charles S., South Orange, N. J., assignor to G. W. Smythe and T. D. Osbourne. Filling machine. 1,690,067; Oct. 30.

Weethee, Thomas E., Dacono, assignor to The Consolidated Coal and Coke Company, Denver, Colo. Car-caging device. 1,689,466; Oct. 30.

Wege, Peter M., assignor to Metal Office Furniture Co., Grand Rapids, Mich. Desk tray. 1,689,372; Oct. 30.

Wehr Co. (See Myers, Edward C., assignor.)

Weidmann Meier, Gottfried. (See Knab, Hermann, assignor.)

Weight-O-Graph Company, The. (See Schaper, Harry C., assignor.)

Weinberg, Benjamin, Troy, N. Y. Garment hanger. 1,689,373; Oct. 30.

Weiser, Walter, Chicago, Ill. Grand piano. 1,689,467; Oct. 30.

Weisgerber, Edwin C., assignor to Petroleum Appliance Syndicate, Los Angeles, Calif. Liquid-level control for pressure tanks. 1,689,654; Oct. 30.

Welch, Jack T., assignor to James Heddon's Sons, Dowagiac, Mich. Artificial bait. 1,689,541; Oct. 30.

Welling, Matthew J., Chicago, Ill., assignor to O'Cedar Corporation. Mop. 1,689,939; Oct. 30.

Wellman Seaver Morgan Company, The. (See Thomas, Ivor D., assignor.)

Wells, Wesley B., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light signal. 1,689,655; Oct. 30.

Welsch, Frank G., South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Lamp standard. Des. 76,767; Oct. 30

Werner, Jean Marie, Montbellard, France. Shaving brush. 1,689,987; Oct. 30.

Wescott, William B., assignor to The Rubber Latex Research Corporation, Boston, Mass. Making reenforced hard rubber. 1,689,570; Oct. 30.

West, George B., U. S. Army, Washington, D. C. Dispensing cabinet. 1,689,571; Oct. 30.

West, George H. (See Pike, R. D., West, and Little.)

Westerheim, Sam, Sioux Falls, S. Dak. Window construction. 1,690,084; Oct. 30.

Western Electric Company. (See Buckley, Oliver E., assignor.)

Western Electric Company. (See Haddock, Arthur, assignor.)

Western Electric Company. (See Harris, James E., assignor.)

Western Electric Company. (See Harrison, Henry C., assignor.)

Western Electric Company. (See Hearn, John F., assignor.)

Western Electric Company. (See Heising, Raymond A., assignor.)

Western Electric Company. (See Kendall, Burton W., assignor.)

Western Electric Company. (See Kuhn, John J., assignor.)

Western Electric Company. (See Lamplough, Leslie F., assignor.)

Western Electric Company. (See Miller, Daniel D., assignor.)

Western Electric Company. (See O'Neill, Henry W., assignor.)

Western Electric Company. (See Oswald, Arthur A., assignor.)

Western Electric Company. (See Potts, Louis M., assignor.)

Western Electric Company. (See Scruby, S. V. C., Turkhud, and de Fremery, assignors.)

Western Electric Company. (See Wheeler, Edmund B., assignor.)

Western Electric Company. (See Williams, Robert R., assignor.)

Western Electric Company. (See Wood, Ernest B., assignor.)

Westinghouse Air Brake Company, The. (See Dean, William E., assignor.)

Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)

Westinghouse Air Brake Company, The. (See Fowler, L. A., and Hukill, assignors.)

Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)

Westinghouse Electric & Manufacturing Company. (See Aspinwall, Louis M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bakken, Andrew H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Collins, George A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)

Westinghouse Electric and Manufacturing Company. (See Davis, David C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Forshee, Frank F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Freeman, Hubert M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Goela, Leonard A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Johnston, Howard L., assignor.)

Westinghouse Electric and Manufacturing Company. (See Juhlin, G. A., and Miller, assignors.)

Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)

Westinghouse Electric and Manufacturing Company. (See Knight, Montgomery, assignor.)

Westinghouse Electric & Manufacturing Company. (See Legg, Joseph W., assignor.)

Westinghouse Electric & Manufacturing Company. (See MacFarland, Allis M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Mottlau, August J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Peterson, Alfred J. A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Rutter, Argyle R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)

Westinghouse Electric & Manufacturing Company. (See Vaughan, Victor G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Weber, Henry C. P., assignor.)

Westinghouse Electric and Manufacturing Company. (See Welsch, Frank G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)

Westinghouse Lamp Company. (See Rentschler, Harvey C., assignor.)

Wheeler, Edmund B., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulated wire. 1,689,311; Oct. 30.

White, Alfred H., Ann Arbor, Mich. Making fuel gas. 1,689,940; Oct. 30.

White, Clarence J., Peoria, assignor, by mesne assignments, to Heinz Floral Rack Co., Chicago, Ill. Floral rack. 1,689,988; Oct. 30.

White, Everett H., St. Paul, Minn. Thermostat. 1,689,542; Oct. 30.

White, William K., Cleveland, Ohio. Receptacle. 1,689,217; Oct. 30.

Whitley, John H., Stantonsburg, N. C. Cotton-seed conveyer. 1,689,706; Oct. 30.

Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forming turnbuckles. 1,689,218; Oct. 30.

Whittal, M. J., Associates, Ltd. (See Grosvenor, J. E., and Picking, assignors.)

Wickenden, Leonard, Flushing, assignor to J. J. Naugle, Brooklyn, N. Y. Invertase preparation and preparing and utilizing the same. 1,689,607; Oct. 30.

Wicks, John, Oak Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Multioffice telephone system. 1,689,543; Oct. 30.

Wieghardt, Paul, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Lead-cable press. 1,689,572; Oct. 30.

Wieghardt, Paul, Madgeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Madgeburg-Buckau, Germany. Vertical lead-cable press. 1,689,573; Oct. 30.

Wikander, Oscar R. (See Bell, F. B., and Wikander.)

Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Device for inserting bags. 1,689,845; Oct. 30.

Wilcox, Harry C., assignor to Pressed Steel Tank Company, West Allis, Wis. Barrel, method of and machine for making the same. 1,689,468; Oct. 30.

Wildman Mfg. Co. (See Pigeon, Albert M., assignor.)

Wilhelm, Robert M. (See Bast, F. J., and Wilhelm.)

Williams, Frederick L., Denver, Colo. Machine for electrical resistance welding of sheet-metal pipe. 1,689,374; Oct. 30.

Williams, Herbert H., assignor to T. E. Murray, Brooklyn, N. Y. Production of axle housings. 1,689,989; Oct. 30.

Williams, Inez, Washington, D. C. Buffet or breakfast car. 1,689,900; Oct. 30.

Williams, John D., Niles, Ohio. Roll polisher. 1,689,656; Oct. 30.

Williams, John F., assignor of one-third to C. J. Roberts and one-fifteenth to L. C. Jackson, Buffalo, N. Y. Process to determine the alcohol and the color in alcoholic liquids. 1,689,901; Oct. 30.

Williams, John F., assignor of one-third to C. J. Roberts and one-fifteenth to L. C. Jackson, Buffalo, N. Y. Formula for test reagents to determine the alcohol and the color in alcoholic liquids. 1,689,902; Oct. 30.

Williams, John and J., Philadelphia, Pa. Piston rings and making same. 1,689,608; Oct. 30.

Williams, Judson. (See Williams, John and J.)

Williams, Robert L., Newton, assignor to Submarine Signal Corporation, Boston, Mass. Method and apparatus for sound producing. 1,689,574; Oct. 30.

Williams, Robert R., Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating conductors. 1,689,312; Oct. 30.

Williams Sealing Corporation. (See Hill, Roland E., assignor.)

Willoughby Sausage Company. (See Kourim, Williams, assignor.)

Willys-Overland Company, The. (See Knight, Charles Y., assignor.)

Wilson, Edgarton R. (See Shears, S. S., and Wilson.)

Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,689,609; Oct. 30.

Winn, Sperry H., Seattle, Wash. Boiler fitting. 1,689,575; Oct. 30.

Winter, Christian, Oskaloosa, Iowa. Fence post. 1,689,610; Oct. 30.

Winters, David L., Los Angeles, Calif. Attachment for spark plugs. 1,689,707; Oct. 30.

Wise, Charles E., Philadelphia, Pa. Locking valve for gas burners. 1,689,657; Oct. 30.

Wise, Edmund M., Cincinnati, Ohio, assignor to Wadsworth Watch Case Company, Dayton, Ky. Making metal articles. 1,689,810; Oct. 30.

Wise-McClung Corporation. (See Wise, W. J., and Adams, assignors.)

Wise, Solomon, Cleveland, Ohio. Snubber. 1,689,903; Oct. 30.

Wise, William J., and T. O. Adams, assignors, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio. Switch plug. 1,689,511; Oct. 30.

Wissmar, Joseph. (See Ferree, M., and Wissmar.)

Witt, Milton, Buffalo, N. Y. Vacuum cleaner. 1,689,811; Oct. 30.

Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Diaphragm-adjusting mechanism for cameras. 1,689,268; Oct. 30.

Wolf, Leonard P., Burlington, Wis. Sectional harrow. 1,689,759; Oct. 30.

Wood, Ernest B., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Direct humidity recorder. 1,689,318; Oct. 30.

Wood, Frederick P., assignor to Simplex Paper Corporation, Adrian, Mich. Fiber board and making the same. 1,689,812; Oct. 30.

Wood, George, Seattle, Wash., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif. Box-strapping tool. 1,689,904; Oct. 30.

Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Device for preventing smutting of printed products. 1,689,708; Oct. 30.

Wood Newspaper Machinery Corporation. (See Tornberg, Isidor, assignor.)

Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)

Wood, Orval R. Seattle, Wash. Carrying case and portfolio. 1,689,416; Oct. 30.

Woodcock, Reginald B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,689,840; Oct. 30.

Woodruff, Joseph W., Elizabeth, N. J. Pump. 1,689,269; Oct. 30.

Woodruff, Joseph W., Elizabeth, N. J. Pump. 1,689,270; Oct. 30.

Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)

Workman, Ellison E. (See Robinson, Edward A., assignor.)

Worthington Pump and Machinery Corporation. (See Lawaczeck, Franz, assignor.)

Worthington, Wayne H., Battle Creek, Mich., assignor to Advance-Rumely Company, La Porte, Ind. Thrashing machine. 1,689,314; Oct. 30.

Worton, Samuel G., Duquesne, Pa. Hot rolling. 1,689,512; Oct. 30.

Worton, Samuel G., Duquesne, Pa. Rolling. 1,689,544; Oct. 30.

Wright, Clair G., Kansas City, assignor to Ely & Walker Dry Goods Company, St. Louis, Mo. Garment. 1,689,469; Oct. 30.

Wyatt, Edyth P., Denver, Colo. Rug or similar article. Des. 76,737; Oct. 30.

Yager, Ralph C., assignor to Yager Sheet Metal Co., Oakland, Calif. Illuminated house-number device. 1,689,315; Oct. 30.

Yager Sheet Metal Co. (See Yager, Ralph C., assignor.)

Yates, James W., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Time recorder. 1,689,905; Oct. 30.

Yells, Frederick W., Geneva, N. Y. Loading bracket for vehicles. 1,689,875; Oct. 30.

Yells, Frederick W., Geneva, N. Y. Vehicle loading device. 1,689,417; Oct. 30.

Young, Charles B., Pittsburgh, Pa. Store-front construction. 1,689,611; Oct. 30.

Young, Frank W., Crown Point, Ind. Ornamenting flower pots. 1,689,418; Oct. 30.

Young, Fred M., assignor to Perfex Corporation, Racine, Wis. Radiator. 1,689,271; Oct. 30.

Young, John H., and W. G. Frink, Middletown, assignors to The Borden Company, New York, N. Y. Apparatus for feeding sheet metal and the like. 1,689,760; Oct. 30.

Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 1,689,612; Oct. 30.

Young, William C., assignor to Postum Company, Incorporated, Batle Creek, Mich. Packer and feeder for carton blanks. 1,689,272; Oct. 30.

Youngstown Steel Door Company. (See Barrows, Allan S., assignor.)

Zerk, Oscar U., Newark, N. J., assignor, by mesne assignments, to The Bassick Manufacturing Company. Automatic lubricant cup. 1,689,613; Oct. 30.

Zilliox, John, Orchard Park, N. Y. Multiple-bit tool. 1,689,376; Oct. 30.

Zimmerman, Arthur G., Schenectady, N. Y., assignor to General Electric Company. Sound-reproducing device. 1,689,513; Oct. 30.

Zimmerman, Walter J. (See Harlan, H. C., and Zimmerman.)

Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Spindle-carriage guide and adjustment. 1,689,614; Oct. 30.

Zimmermann, William F., Maplewood, and H. Hauser, Irvington, assignors to Gould & Eberhardt, Newark, N. J. Shaper feed mechanism with stationary control. 1,689,615; Oct. 30.

Zins, Hubert, Wabasso, Minn. Veterinary obstetrical forceps. 1,690,044; Oct. 30.

Zipper, Emil and W., Vienna, Austria. Divided rim. 1,689,273; Oct. 30.

Zipper, Walter. (See Zipper, Emil and W.)

Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Television system. 1,689,847; Oct. 30.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF OCTOBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator, Dry-pipe sprinkler-system. E. Tyden. 1,689,980; Oct. 30.
Acid and pyruvic acid, Ester of salicylic. S. L. Summers. 1,689,696; Oct. 30.
Acid esters and making same, Metal mercapto. W. Schoeller and H. G. Allardt. 1,689,366; Oct. 30.
Acids and preparing the same, Monodiazo compounds of 1,4-diaminoanthraquinone-β-sulphonic. G. Kränzlein and F. Roem.r. 1,690,021; Oct. 30.
Adjustable wrench. B. P. Kerfoot. 1,690,018; Oct. 30.
Advertising device. W. C. Mordecai. 1,689,037; Oct 30.
Agricultural machine. E. Astoia. 1,689,192; Oct. 30.
Agricultural machine. C. P. Caulkins. 1,689,816; Oct. 30.
Agricultural machine. A. Dick and J. A. Dirschauer. 1,689,550; Oct. 30.
Air directioner, Tempered-. A. J. Janecek. 1,689,489; Oct. 30.
Alarm: *See*—
  Antitheft alarm.
Alarm gauge. O. W. Heise. 1,689,830; Oct. 30.
Alarm system, Automobile theft-. H. C. Hay. 1,689,434; Oct. 30.
Alcohol and the color in alcoholic liquids, Process to determine the. J. F. Williams. 1,689,901; Oct. 30.
Alkylation. C. A. Kraus and C. C. Callis. 1,690,075; Oct. 30.
Alloy, Zirconium-treated iron-chromium. F. M. Becket. 1,689,276; Oct. 30.
Alloys, Heat treating magnesium. Z. Jeffries and R. S. Archer. 1,689,630; Oct. 30.
Amplifying attachment for horns of sound-reproducing instruments. W. E. Weatherly. 1,689,986; Oct. 30.
Anchor, Fence-post. M. E. Anderson. 1,689,316; Oct. 30.
Anhydride, Producing phthalic. F. A. Canon and C. E. Andrews. 1,689,860; Oct. 30.
Annular plates, Forming. F. R. Klaus. 1,689,784; Oct. 30.
Antenna. A. Haddock. 1,689,337; Oct. 30.
Antenna. W. H. Haworth. 1,689,629; Oct. 30.
Antenna, Loop. L. L. Manley. 1,689,400; Oct. 30.
Antenna system, Directive. F. Conrad. 1,689,863; Oct. 30.
Antirattling device for storm windows. J. H. Grininger. 1,689,826; Oct. 30.
Antitheft alarm. J. Breidt. 1,689,909; Oct. 30.
Arch-nose construction. S. F. Burnet. 1,690,088; Oct. 30.
Artificial line. R. Feldtkeller. 1,689,334; Oct. 30.
Asynchronous motor. V. A. Fynn. 1,689,525; Oct. 30.
Automobile wheel. J. H. Wagenhorst. 1,689,650; Oct. 30.
Axle housings, Production of. H. H. Williams. 1,689,989; Oct. 30.
Back rest, Hydraulic. A. P. Steiner. 1,689,409; Oct. 30.
Badge. S. Seides. Des. 76,764; Oct. 30.
Baffle for coal-burning heaters. J. T. Landgraf. 1,689,923; Oct. 30.
Bag: *See*—
  Rug bag. Self-closing bag.
Bait, Artificial. Welch, J. T. 1,689,541; Oct. 30.
Balancing machine. A. T. Kasley. 1,689,672; Oct. 30.
Ball: *See*—
  Float ball. Scouring ball.
Ballast spreader. B. W. Straw. 1,689,694; Oct. 30.
Ballast-spreading device. B. W. Straw. 1,689,806; Oct. 30.
Bar: *See*—
  Reenforcing bar. Switch bar.
Barrel, method of and machine for making the same. H. C. Wilcox. 1,689,468; Oct. 30.
Barrier with mechanical stop signal, Yieldable. E. D. Sawyer. 1,689,257; Oct. 30.
Basin and heat reclaimer, Soil-water catch. F. S. Boltz. 1,689,993; Oct. 30.
Basket, Shopping. A. Moynahan. 1,689,448; Oct. 30.
Bathing case, Waterproof. C. E. Lang. 1,689,396; Oct. 30.
Bathing float. C. C. Harris. 1,689,721; Oct. 30.
Battery-charging system, Storage-. W. S. H. Hamilton. 1,689,483; Oct. 30.
Battery-filling device. W. E. Holland. 1,690,066; Oct. 30.
Bearing and seal for same. J. O. Carrey. 1,689,912; Oct. 30.
Bearing, Antifriction. J. F. O'Connor. 1,689,450; Oct. 30.
Bearing device for rails on sleepers of reenforced cement. L. Serra. 1,689,754; Oct. 30.
Bearing, Dump-car-body-tilting. A. C. Schmohl. 1,689,365; Oct. 30.
Bearing especially for railway vehicles. F. Kertész. 1,689,783; Oct. 30.
Bearing mounting. R. L. Brown. 1,689,856; Oct. 30.
Beater, Pulp. L. E. Randecker. 1,689,932; Oct. 30.
Bed, Convertible. W. A. Matheson. 1,689,737; Oct. 30.
Bench machine. O. C. Reeves. 1,689,685; Oct. 30.
Block: *See*—
  Paving block.
Board: *See*—
  Ironing board.
Bogie for railway cars and the like. L. G. H. Helmstein. 1,689,921; Oct. 30.
Boiler: *See*—
  Gas boiler. Steam boiler.
  Pressure boiler.
Boiler drums, Producing sectional. G. Lasker. 1,689,789; Oct. 30.
Boiler fitting. S. H. Winn. 1,689,575; Oct. 30.
Book, Loose-leaf. D. S. McChesney. 1,689,401; Oct. 30.
Bottle. F. Aichinger and J. L. Kopacka. Des. 76,731; Oct. 30.
Bottle capper. H. G. Rice. 1,689,298; Oct. 30.
Bottle-rinsing machine. S. E. Lanmark. 1,689,492; Oct. 30.
Box: *See*—
  Display box. Shipping and display box.
  Journal box. Wind box.
  Match box.
Box for mail and the like. S. R. Hunter and J. W. Arnold. 1,689,204; Oct. 30.
Box for shafts and the like, Stuffing. A. Jabs. 1,689,874; Oct. 30.
Box toes, Apparatus for conditioning. M. O. Jennings. 1,689,631; Oct. 30.
Brace: *See*—
  Furniture brace.
Bracket for vehicles, Loading. F. W. Yells. 1,689,375; Oct. 30.
Braiding machines, Thread-guide lever for. G. Horn. 1,689,389; Oct. 30.
Brake: *See*—
  Duplex brake. Solenoid brake.
Brake. V. Link and H. S. Pierce. 1,689,554; Oct. 30.
Brake. I. F. Strand. 1,689,412; Oct. 30.
Brake apparatus, Air-. W. Astle. 1,689,221; Oct. 30.
Brake beams, Adjustable third or fourth point support for. H. W. Ekholm. 1,689,333; Oct. 30.
Brake-indicating device. W. E. Dean. 1,689,231; Oct. 30.
Brake mechanism, Vehicle. R. S. Sanford. 1,689,255; Oct. 30.
Brake slack adjuster. L. A. Fowler and H. D. Hukill. 1,689,235; Oct. 30.
Brakes, Making. V. Bendix. 1,689,766; Oct. 30.
Breaker strips in the manufacture of tire casings, Applying. T. Midgley. 1,689,793; Oct. 30.
Brush. G. V. Brannstrom and V. J. Carlson. 1,689,517; Oct. 30.
Brush cleaner. C. Majewski. 1,689,209; Oct. 30.
Brush, Shaving. J.-M. Werner. 1,689,987; Oct. 30.
Brush, Stripping. P. Breitenbach. 1,689,855; Oct. 30.
Building and method of construction. G. E. Bradbury. 1,689,320; Oct. 30.
Building-block mold, Composition. O. P. Fuller. 1,689,282; Oct. 30.
Bumper, Automobile. G. W. Veale. 1,689,464; Oct. 30.
Bung. R. C. Olson. 1,689,403; Oct. 30.
Burner: *See*—
  Fuel burner. Hydrocarbon burner.
Burner. F. A. Nieberding. 1,689,798; Oct. 30.
Bushing puller. B. E. Delle. 1,689,330; Oct. 30.
Cab for trucks. K. S. Baxter. 1,689,765; Oct. 30.
Cabinet, Dispensing. G. B. West. 1,689,571; Oct. 30.
Cabinet, Kitchen. E. M. Trammell. 1,689,371; Oct. 30.
Cabinet, Refrigerated food. J. R. Replogle. 1,689,933; Oct. 30.
Cabinet, Telephone. E. M. Trammell. 1,689,414; Oct. 30.
Cabinet, Towel. J. R. Clover. 1,689,622; Oct. 30.
Cable driving mechanism. K. Davis. 1,689,996; Oct. 30.
Cable joint. N. E. Buck, D. W. Roper, and A. P. Thoms. 1,689,323; Oct. 30.
Cable joint. N. E. Buck, D. W. Roper, and A. P. Thoms. 1,689,420; Oct. 30.
Cage for roller bearings. V. L. Abel. 1,689,514; Oct. 30.
Cage for roller bearings. H. Styri. 1,689,505; Oct. 30.
Calculating machines, Selecting mechanism for. E. C. Walter. 1,689,651; Oct. 30.
Camera, High-speed. C. F. Jenkins. Re17,119; Oct. 30.
Cameras, Diaphragm-adjusting mechanism for. O. Wittel. 1,689,268; Oct. 30.
Can: *See*—
  Key-opening can.
Can-capping machine. C. A. Bunker. 1,689,815; Oct. 30.
Can filling machine. C. H. Ayars. 1,689,661; Oct. 30.

Can opener. A. Ryckman. 1,689,301; Oct. 30.
Can opening and sealing device. W. H. Hunt. 1,689,344; Oct. 30.
Car, Buffet or breakfast. I. Williams. 1,689,900; Oct. 30.
Car-caging device. T. E. Weethee. 1,689,466; Oct. 30.
Carbomineral product, Active. E. Urbain. 1,689,647; Oct. 30.
Carriage bodies, Folding hood for. X. Seitz. 1,689,896; Oct. 30.
Carrier: *See*—
  Mattress carrier. Water-bag carrier.
  Tire and luggage carrier.
Case: *See*—
  Bathing case. Pencil case.
  Display case.
Case and portfolio, Carrying. O. R. Wood. 1,689,416; Oct. 30.
Casing construction, Door and window. C. E. and J. D. Seymour and P. C. Davis. 1,689,807; Oct. 30.
Catalytic apparatus for the synthesis of ammonia. F. C. Reed. 1,689,684; Oct. 30.
Catch, Hood. R. P. Place. 1,689,931; Oct. 30.
Cell for electrodeposition of metals. R. D. Pike, G. H. West, and B. P. Little. 1,689,597; Oct. 30.
Cellulose xanthate, Manufacture of. P. Moro. 1,689,958; Oct. 30.
Cement, Producing calcium aluminate. E. M. Roche. 1,689,891; Oct. 30.
Centrifugal extractor. C. A. Kelsey. 1,689,490; Oct. 30.
Chain band. C. Schraysshuen and F. Renz. 1,689,367; Oct. 30.
Chain, Drive. E. B. Nichols. 1,689,556; Oct. 30.
Chain hook. G. W. Gruner. 1,689,827; Oct. 30.
Chain lock, Side-. A. N. Elcburn. 1,689,944; Oct. 30.
Chair attachment. G. W. Loveridge. 1,690,025; Oct. 30.
Chair support, Steamer-deck-. G. G. Perego. 1,689,964; Oct. 30.
Chandelier. W. J. Fielding. Des. 76,742–3; Oct. 30.
Charging device, Pneumatic. C. C. Hansen. 1,689,778; Oct. 30.
Check-notching device. C. T. Raschick. 1,689,252; Oct. 30.
Chemical rectifier, Removable. J. K. Elderkin. 1,689,819; Oct. 30.
Christmas tree. B. A. Landers. 1,689 530; Oct. 30.
Chuck, Electromagnetic. J. Bing. 1,689,616; Oct. 30.
Chuck-rotating mechanism. A. H. Katterjohn. 1,689,392; Oct. 30.
Chucking machine. A. J. Lewis. 1,689,440; Oct. 30.
Cigar machines, Filler feed for scrap bunch. S. Clausen and C. V. Lindblad. 1,689,423; Oct. 30.
Circuit breaker. A. H. Bakken. 1,689,851; Oct. 30.
Circuit-breaker system, Automatic reclosing-. A. E. Anderson. 1,689,515; Oct. 30.
Circuit interrupter. J. W. Legg. 1,689,836; Oct. 30.
Circuits, Repeater. B. G. Björnson. 1,689,318; Oct. 30.
Circuits, Telephone substation. H. C. Pye. 1,689,598; Oct. 30.
Clamp: *See*—
  Quick-adjustment clamp. Wire-stretcher clamp.
Cleaner: *See*—
  Brush cleaner. Vacuum cleaner.
  Pipe cleaner. Windshield cleaner.
Cleaner for filtering elements. C. S. Burns. 1,689,277; Oct. 30.
Cleaning and polishing machine, Fruit. E. M. Wayland and A. H. McIntyre. 1,689,653; Oct. 30.
Cleaning apparatus, Ballast-. P. H. Hamilton. 1,690,000; Oct. 30.
Cleaning-fluid-conveying tube for rock drills. L. C. Bayles. 1,689,275; Oct. 30.
Cleat-trimming machine. W. H. Albee and A. G. Davis. 1,689,219; Oct. 30.
Closure seat for metallic containers. L. B. Wackman. 1,689,510; Oct. 30.
Clothes drier. C. W. Kellman. 1,689,345; Oct. 30.
Clothes hanger. H. Hailla-Karlebach. Des. 76,747; Oct. 30.
Clothesline reel. J. Strombach. 1,689,695; Oct. 30.
Clothes washer, Mechanical. M. A. Denbaugh. 1,689,381; Oct. 30.
Clover huller. J. Geiger. 1,689,239; Oct. 30.
Clutch device. J. M. Brown. 1,689,857; Oct. 30.
Clutch, Two-speed and reversing. T. Gensmer. 1,689,200; Oct. 30.
Coating wire fabric. J. W. Meaker. 1,689,792; Oct. 30.
Cock device, Angle-. C. C. Farmer. 1,689,233; Oct. 30.
Cock, Liquid-control. C. T. Ford. 1,690,005; Oct. 30.
Code-sending apparatus. L. J. Levy. 1,690,023; Oct. 30.
Coil, Heat-exchanging. E. I. Heinsohn. 1,689,435; Oct. 30.
Compressor, Lubricant. E. W. Davis. 1,690,058; Oct. 30.
Condenser cage for intake manifolds. S. B. Harvey. 1,689,433; Oct. 30.
Container. E. E. Geisinger. 1,689,917; Oct. 30.
Container. J. M. Young. 1,689,612; Oct. 30.
Container and support, Combined. C. W. Hall. 1,690,063; Oct. 30.
Container, Cigarette. E. M. Friedman. 1,689,335; Oct. 30.
Container, Compact. F. B. Miller. 1,689,859; Oct. 30.
Container, Liquid. A. G. O'Neill. 1,690,035; Oct. 30.
Containers, Process and apparatus for forming grease-proof fiber. D. G. Magill. 1,689,593; Oct. 30.
Control and indicating system, Remote. L. M. Potts. 1,689,294; Oct. 30.
Control device, Variable-. L. G. Pacent. 1,690,077; Oct. 30.
Control mechanism, Steam and fluid. W. C. Mitchell. 1,689,249; Oct. 30.
Control system, Remote-. E. F. Bliss. 1,689,516; Oct. 30.
Controller, Automatic. F. J. Bast and R. M. Wilhelm. 1,689,764; Oct. 30.
Controlling and operating locomotive whistles, Device for. H. Vissering. 1,689,509; Oct. 30.
Controlling knitting needles in plating relations, Mechanism for. J. and R. H. Lawson. 1,690,076; Oct. 30.
Controlling mechanism for oil burners. O. C. Schroeder. 1,689,803; Oct. 30.
Conveyer, Cottonseed. J. H. Whitley. 1,689,706; Oct. 30.
Conveyer operated at accelerated speed. G. Halter. 1,689,201; Oct. 30.
Conveyer roller. W. B. Moore. 1,689,496; Oct. 30.
Conveying and accelerating device. P. H. Lange. 1,689,247; Oct. 30.
Cooling liquids, Apparatus for. H. W. Taylor and J. T. Smith. 1,689,461; Oct. 30.
Cooling towers and the like, Water-distributing means for. G. J. Stocker. 1,690,092; Oct. 30.
Core bars in flasks, Supporting. J. R. McWane. Re17,121; Oct. 30.
Cores, Method of and apparatus for continuously sheathing. L. F. Lamplough. 1,689,205; Oct. 30.
Corn popping and vending apparatus. A. R. Walker. 1,689,265; Oct. 30.
Coupling: *See*—
  Flexible coupling.
Court for tennis and the like, Hard. G. J. Eilers. 1,690,059; Oct. 30.
Cover, Desk. S. J. Roberts. 1,689,890; Oct. 30.
Cover plate for cable channels and the like. R. Tutsch. 1,689,646; Oct. 30.
Crib. D. M. and B. H. Kennedy. 1,689,782; Oct. 30.
Cultivator. S. Kennedy, jr. 1,689,243; Oct. 30.
Cup: *See*—
  Lubricant cup. Oil cup.
Current measurements, Method and arrangement for comparative alternating. D. Albrecht. 1,689,660; Oct. 30.
Current-supply system. W. F. Hendry. 1,689,485; Oct. 30.
Curve-forming device, Variable. C. G. Filzer. 1,689,234; Oct. 30.
Cushion arch support. J. Strootman. 1,689,260; Oct. 30.
Cushioning or shock-absorbing device. F. B. Bell and O. R. Wikander. 1,689,662; Oct. 30.
Cutter: *See*—
  Ensilage cutter.
Cutter and bedder, Stalk. W. B. Collins. 1,689,718; Oct 30.
Cutter and weeder, Vine. W. H. Phillips. 1,689,452; Oct. 30.
Cutter for planing gear teeth. O. Severson. 1,689,973; Oct. 30.
Cyclic process for the manufacture of kraft pulp. G. A. Richter. 1,689,534; Oct. 30.
Cyclohexyl-alkyl phthalic esters. R. Adams and J. F. Hyde. 1,689,761; Oct. 30.
Cylinder head, Internal-combustion-engine. J. R. C. Smith. 1,689,304; Oct. 30.
Delivery mechanism. W. O. Hall. 1,689,431; Oct. 30.
Dental bridgework, Attachment for. H. E. S. Chayes. 1,689,478; Oct. 30.
Die-casting machine. C. J. Sykes. 1,690,081; Oct. 30.
Die head, Self-opening. A. F. Breitenstein. 1,689,768; Oct. 30.
Direction indicator. K. Koenigsberg. 1,689,786; Oct. 30.
Dishwashing machine. C. A. Johnson. 1,689,727; Oct. 30.
Dishwashing machines, Propeller blade for. H. M. Gowdy. 1,689,383; Oct. 30.
Dispensing apparatus. G. S. Klein. 1,689,393; Oct. 30.
Dispensing apparatus. R. M. Roddick. 1,689,561; Oct. 30.
Display and storage rack. A. Misrachi. 1,689,741; Oct. 30.
Display box. S. C. Anschell. 1,689,763; Oct. 30.
Display case. W. P. Bott. 1,689,713; Oct. 30.
Display device. A. Lefevre, jr. 1,689,790; Oct. 30.
Display window. H. C. Harlan and W. J. Zimmerman. 1,689,872; Oct. 30.
Distillation. G. W. Watts. 1,689,606; Oct. 30.
Door and the like, Metal. A. C. Goddard. 1,689,823; Oct. 30.
Door extractor, Bottom-tilting-. I. D. Thomas. 1,689,216; Oct. 30.
Door hanger, Sliding-. W. P. Cramp. 1,689,665; Oct. 30.
Door, Metallic car. A. S. Barrows. 1,689,472; Oct. 30.
Draft installation, Mechanical. E. Haber. 1,689,241; Oct. 30.
Drawbar. A. A. Rector. 1,689,454; Oct. 30.
Drier: *See*—
  Clothes drier. Laundry drier.
Drill: *See*—
  Rock drill.
Drill-steel retainer. A. H. Skaer. 1,689,408; Oct. 30.
Drilling apparatus. W. A. Ross. 1,689,455; Oct. 30.
Drilling mechanism. C. F. Osgood. 1,689,596; Oct. 30.
Drying or cooling material, Apparatus for. A. G. Huhn. 1,690,013; Oct. 30.

Dump body. F. R. Allen and H. M. Champion. 1,690,045; Oct. 30.
Duplex brake. V. Bendix and A. Y. Dodge. 1,689,767; Oct. 30.
Duster, Powder. M. Langhaus. 1,690,022; Oct. 30.
Dyestuffs and making same, Diphenylmethane azo. C. Mettler. 1,689,739; Oct. 30.
Dyestuffs and making same, Ditolylmethane azo. C. Mettler. 1,689,740; Oct. 30.
Educational appliance. B. Burton. 1,689,422; Oct. 30.
Electric flash light. R. M. Eaton. 1,689,382; Oct. 30.
Electric generator. G. B. Rolfe. 1,689,934; Oct. 30.
Electric heater. G. B. Gallup. 1,689,822; Oct. 30.
Electric light, Portable. W. E. McCormick. Des. 76,759; Oct. 30.
Electric popcorn popper. H. A. Steere. Des. 76,765; Oct. 30.
Electric switch. G. A. Burnham. 1,689,421; Oct. 30.
Electric switch. J. R. Carlson. 1,690,052; Oct. 30.
Electric switch. F. McElroy. 1,689,495; Oct. 30.
Electric switch. G. J. Meuer. 1,689,926; Oct. 30.
Electric switch. A. H. Nero. 1,690,028; Oct. 30.
Electric switch, Thermostatically-operated. R. W. McBrien. 1,689,210; Oct. 30.
Electrical conductors, Manufacture of continuously-loaded. O. E. Buckley. 1,689,324; Oct. 30.
Electrical connecter. L. A. Goelz. 1,689,824; Oct. 30.
Electrical control system operable automatically to level elevators with landings. E. L. Gale. 1,689,583; Oct. 30.
Electrical fixture with convenience outlet. V. R. Despard. 1,689,232; Oct. 30.
Electrical switch. H. W. Batcheller. 1,689,852; Oct. 30.
Electrically heating metal bars, Apparatus for. E. S. Jefferies. 1,689,876; Oct. 30.
Electricity meter. W. Bensch. 1,689,992; Oct. 30.
Electromagnetic pick-up apparatus. P. R. Fortin. 1,689,524; Oct. 30.
Electron-discharge device. J. E. Harris. 1,689,338; Oct. 30.
Elevator or transfer device. L. R. Parker. 1,689,839; Oct. 30.
Elevator-stop mechanism. J. S. Vraboritis. 1,689,264; Oct. 30.
Emery-wheel dresser. R. P. Place. 1,689,930; Oct. 30.
Energy-translation system. H. C. Harrison. 1,689,339; Oct. 30.
Engine: *See*—
Gasoline engine. Rotary engine.
Internal-combustion engine. Steam engine.
Engine and supercharging, Supercharger internal-combustion. M. Seng, A. G. M. Michell. 1,689,080; Oct. 30.
Engines, Drive unit for tandem aircraft. L. H. Rengler. 1,689,751; Oct. 30.
Engines, Fuel economizer and air-inlet valve for internal-combustion. I. J. Fansler, sr. 1,689,280; Oct. 30.
Engines, Superheat system for internal-combustion. W. P. Deppé. 1,689,942; Oct. 30.
Ensilage cutter. C. W. Keith. Re17,120; Oct. 30.
Eviscerating apparatus, Entrail-collecting means for. J. A. Gray. 1,689,670; Oct. 30.
Excavator-boom structure, Laterally-adjustable. G. A. Vaughn. 1,689,981; Oct. 30.
Expansion joint. A. C. Fischer. 1,689,945; Oct. 30.
Explosive, Commercial blasting. R. A. Long. 1,689,674; Oct. 30.
Extracting the nonsaponifiable difficultly-saponifiable matter from fatty material. J. K. Marcus. 1,690,091; Oct. 30.
Extractor: *See*—
Centrifugal extractor. Door extractor.
Eyeleting machine. W. F. Lautenschlager. 1,689,949; Oct. 30.
Fabric and making same, Differential colored. C. Dreyfus and H. Platt. 1,689,426; Oct. 30.
Fastener, All-wire-pin. G. A. King. 1,690,074; Oct. 30.
Fastener, Tape. B. E. Byrd. 1,689,859; Oct. 30.
Fasteners, Tack-fastened stud for snap. F. E. Warner. 1,690,082; Oct. 30.
Fastening, Combination tie and rail. J. Hojnowski. 1,689,486; Oct. 30.
Fastening device for wrist-watch straps, bands, and bracelets. A. L. Newman. 1,689,640; Oct. 30.
Fastening device for wrist watches. B. Ogush. 1,689,251; Oct. 30.
Fastening, Nut and screw. W. H. Pierce. 1,690,078; Oct. 30.
Faucet, Dispensing. W. E. Patnaude. 1,689,961; Oct. 30.
Feed-controlling apparatus, Proportional. P. Lanham. 1,689,491; Oct. 30.
Feed mechanism, Blank-. J. A. Gray. 1,689,668; Oct. 30.
Feed mechanism with stationary control, Shaper. W. F. Zimmermann and H. Hauser. 1,689,615; Oct. 30.
Feeding device, Sheet-. W. M. Kelly. 1,689,878; Oct. 30.
Feeding fluid by intermittent changes of fluid pressure. C. H. Nordell. 1,689,557; Oct. 30.
Feeding mechanism for closing machines, Can-end-. H. A. Fink. 1,690,002; Oct. 30.
Feeding mechanism, Snowplow. E. H. Fahrney. 1,689,999; Oct. 30.
Feeding sheet metal and the like, Apparatus for. J. H. Young and W. G. Frink. 1,689,760; Oct. 30.
Feeding sheet-metal blanks and the like, Mechanism for. E. V. Swangren. 1,689,756; Oct. 30.
Fence panel or similar article. W. H. Taylor. Des. 76,766; Oct. 30.
Fence post. C. Winter. 1,689,610; Oct. 30.
Fiber board and making the same. F. P. Wood. 1,689,812; Oct. 30.
Fibrous material and producing same, Article made of. W. H. Kobbé. 1,689,394; Oct. 30.
Fillers for baking pans, Making. J. W. Foerch, jr. 1,690,003; Oct. 30.
Filling machine. C. S. Weeks. 1,690,067; Oct. 30.
Film-projection machine. B. A. Proctor. 1,689,802; Oct. 30.
Finger ring. I. H. Segal. Des. 76,763; Oct. 30.
Fire-control instrument. G. B. Crouse. 1,689,327; Oct. 30.
Fish directing and turning apparatus. F. Heath. 1,689,919; Oct. 30.
Fish-directing apparatus. F. Heath. 1,689,920; Oct. 30.
Fishing reel. F. M. Case. 1,689,914; Oct. 30.
Fishing tool. R. N. Vickers. 1,689,702; Oct. 30.
Fixture for shaving off fillings in clutch plates. E. C. Myers. 1,689,797; Oct. 30.
Flexible coupling. C. H. Clark. 1,689,861; Oct. 30.
Float ball. P. H. Coleman. 1,690,057; Oct. 30.
Floor vent. A. J. Filkins. 1,690,001; Oct. 30.
Floral rack. C. J. White. 1,689,988; Oct. 30.
Flotation process. C. Shapley. 1,689,693; Oct. 30.
Flow meter. C. A. Dawley. 1,679,776; Oct. 30.
Fluid-actuated jack. T. W. Pedersen. 1,690,037; Oct. 30.
Fluid motor, Pressure-. M. P. Holmes. 1,689,587; Oct. 30.
Focusing-adjustment device. C. E. Godley. 1,689,918; Oct. 30.
Foldable wringer. J. J. Groden. 1,690,062; Oct. 30.
Folding machine. E. D. Rader. 1,690,038; Oct. 30.
Food product. I. S. Merrell. 1,689,357; Oct. 30.
Foot rest, Automatic adjustable. J. R. Emmert and J. J. Pozdro. 1,689,197; Oct. 30.
Foot stock, Hydraulic. A. P. Steiner. 1,689,410; Oct. 30.
Forceps, Veterinary obstetrical. H. Zins. 1,690,044; Oct. 30.
Forming and interiorly beaded or looped tearing-strip can, Method and apparatus for. 1,689,605; Oct. 30.
Forming or working spherical surfaces, concave or convex. M. J. Olsson. 1,689,928; Oct. 30.
Formula for test reagents to determine the alcohol and the color in alcoholic liquids. J. F. Williams. 1,689,902; Oct. 30.
Frame for instruments of radio sets, Supporting. G. V. Hedstrom. 1,690,065; Oct. 30.
Frame lock, Auto axle-. L. Sosdiau. 1,690,040; Oct. 30.
Fraternity badge. F. W. Bryant. Des. 76,732; Oct. 30.
Freezer, Rapid. F. F. Benz. 1,689,578; Oct. 30.
Fuel burner, Gaseous. C. F. Hammond. 1,689,551; Oct. 30.
Fuel gas, Making. A. H. White. 1,689,940; Oct. 30.
Fur scarf. G. J. Baruch. 1,689,908; Oct. 30.
Furnace and operating the same. R. H. Stevens. 1,689,563; Oct. 30.
Furnace burning pulverized fuel. W. Lulofs. 1,689,675; Oct. 30.
Furnace for glowing metal bands by induction currents, Electric. M. Tama. 1,689,369; Oct. 30.
Furniture brace. A. Balinky. 1,689,222; Oct. 30.
Fuse. N. J. Conrad. 1,689,424; Oct. 30.
Fuses, Bore safety device for. A. Adelman. 1,689,470; Oct. 30.
Game. J. Craigie. 1,689,326; Oct. 30.
Game. R. Walton. 1,689,984; Oct. 30.
Game indicator. H. F. Davis and J. D. Reid. 1,689,865; Oct. 30.
Game instrument for poker and similar card games. E. G. de Bary. 1,689,380; Oct. 30.
Game, Putting. W. C. Brunder. 1,689,475; Oct. 30.
Garment. C. G. Wright. 1,689,469; Oct. 30.
Garment hanger. B. Weinberg. 1,689,373; Oct. 30.
Gas from oil tanks, etc., of refineries, System for gathering. H. R. Maxon. 1,689,352; Oct. 30.
Gasoline engine. H. L. Adams. 1,689,576; Oct. 30.
Gate. J. Evans. 1,690,061; Oct. 30.
Gauge: *See*—
Alarm gauge.
Gauge for looms, Fell. J. E. Johnson. 1,689,591; Oct. 30.
Gear, Adjustable transmission. C. Y. Knight. 1,689,730; Oct. 30.
Gear, Draft. W. H. Cotton. 1,689,549; Oct. 30.
Gear for self-propelled vehicles, Differential. H. Knab. 1,689,285; Oct. 30.
Gear, Hydraulic valve. W. Noble and L. V. Pittman. 1,690,032; Oct. 30.
Gear-locking or clutch mechanism for gear-change sets. C. B. Funk. 1,689,429; Oct. 30.
Gear, Power reverse. F. W. Martin. 1,689,677; Oct. 30.
Gear transmission for calculating machines, Selective. E. C. Walter. 1,689,983; Oct. 30.
Gearing construction, Two-speed axle-. W. S. Austin. 1,689,377; Oct. 30.
Generating worm gears and the like, Method of and machine for. N. Trbojevich. 1,689,565; Oct. 30.
Generator: *See*—
Electric generator. Steam generator.
Gland construction, Labyrinth. F. Lösel. 1,689,735; Oct. 30.
Glass-forming machine. T. H. Sloan. 1,689,975; Oct. 30.

Globe structure. F. R. Healey and W. E. Beaty. 1,689,828; Oct. 30.
Glove, X-Ray protective. J. Picker. 1,689,212; Oct. 30.
Glue and making same, Vegetable. I. F. Laucks and G. Davidson. 1,689,732; Oct. 30.
Golf apparatus, Ball-returning. W. C. Brumder. 1,689,476; Oct. 30.
Grader, String-bean. F. P. Ryder. 1,689,254; Oct. 30.
Grain separator. A. E. Rothgarn. 1,689,972; Oct. 30.
Grate-bar support, Adjustable. C. I. Wallis and J. S. Amrock. 1,689,604; Oct. 30.
Grease-gun-filling device. R. Monnot. 1,689,360; Oct. 30.
Grinder. M. C. Hutto. 1,689,589; Oct. 30.
Grinding apparatus. D. T. Hoy. 1,689,922; Oct. 30.
Grinding machine, grinding wheel, and cooling the same. W. B. Leonard, 2d. 1,689,950; Oct. 30.
Grinding machines and support therefor, Guard casing for. A. M. Drake. 1,689,719; Oct. 30.
Grinding of gear-wheel teeth. H. H. Asbridge. 1,689,274; Oct. 30.
Guide apparatus for the propeller stream of vessels. J. B. Illorth. 1,689,779; Oct. 30.
Hair-waving device. T. McMillan. 1,689,355; Oct. 30.
Hammer, Pneumatic. E. W. Stevens. 1,689,805; Oct. 30.
Handle: *See*—
Saw handle. Tool handle.
Hanger: *See*—
Door hanger. Lamp hanger.
Garment hanger.
Hanger for trolley wires. E. F. Joyce. 1,689,632; Oct. 30.
Handle for wrenches, Extension. H. D. Neff. 1,689,639; Oct. 30.
Handle lock. E. N. Jacobi. 1,689,875; Oct. 30.
Harrow, Sectional. L. P. Wolf. 1,689,759; Oct. 30.
Harvester, Combination cotton. W. F. MacGregor. 1,689,443; Oct. 30.
Hat pad. A. P. Wagner. 1,689,539; Oct. 30.
Headlight, Dirigible. E. Barber and N. Ingraham. 1,689,712; Oct. 30.
Headlight regulator, Automobile. E. B. Volkerding. 1,689,538; Oct. 30.
Headlight, Vehicle. C. H. Jording. 1,690,016; Oct. 30.
Heat application, Apparatus for. W. A. Darrah. 1,689,379; Oct. 30.
Heat exchanger. A. P. Brocklebank. 1,689,910; Oct. 30.
Heat exchanger, Rotary. F. S. Broadhurst. 1,689,189; Oct. 30.
Heater: *See*—
Electric heater. Water heater.
Immersion heater.
Heater system, Electric. W. G. Hartwig. 1,689,432; Oct. 30.
Heating apparatus. J. H. Sutter. 1,689,937; Oct. 30.
Heating drum. R. L. Meyers. 1,689,838; Oct. 30.
Heel-blank-grooving machine. D. O. Marshall. 1,689,494; Oct. 30.
Heel-building machine. W. E. Small. 1,689,459; Oct. 30.
Heel-lift-depositing mechanism. L. A. Holman. 1,689,487; Oct. 30.
Hinge. E. G. Covell. 1,689,664; Oct. 30.
Hinge and compact holder for vanity cases. W. G. Kendall. 1,690,017; Oct. 30.
Hinge for pulp screens, Spring. G. Reynolds. 1,689,687; Oct. 30.
Hob. N. Trbojevich. 1,689,566; Oct. 30.
Holder, Door. J. R. Clover. 1,689,621; Oct. 30.
Holder for shoes, Removable buckle. L. W. Gordon. 1,689,240; Oct. 30.
Holder for soap. G. Kupferschmid. 1,689,787; Oct. 30.
Holder, Globe. H. L. Johnston. 1,689,832; Oct. 30.
Holder, Level-vial. P. H. Vogel. 1,689,982; Oct. 30.
Holding device. A. J. Rudolph. 1,689,643; Oct. 30.
Hook: *See*—
Chain hook.
Hook and loop, Combination. H. D'Oller, jr. 1,689,943; Oct. 30.
Hotbed. E. Kästel. 1,689,552; Oct. 30.
Hot rolling. S. G. Worton. 1,689,512; Oct. 30.
House: *See*—
Portable house.
Huller: *See*—
Clover huller.
Humidifier for hot-air furnaces. J. Subert and J. Subert, jr. 1,689,036; Oct. 30.
Humidity recorder, Direct-. E. B. Wood. 1,689,313; Oct. 30.
Hydrocarbon burner. G. B. Johnson. 1,690,015; Oct. 15.
Hydrocarbon oils, Cracking. J. Perl. 1,689,363; Oct. 30.
Hydrocarbons, Cracking. J. Perl. 1,689,362; Oct. 30.
Hydrogen of great purity, Production of. A. W. Burwell. 1,689,858; Oct. 30.
Hydroplane. C. H. Traver. 1,689,807; Oct. 30.
Hydroxide. Manufacture of ferrous. E. M. Lofland. 1,689,951; Oct. 30.
Hypochlorites, Making alkali-metal. A. Oppé. 1,689,748; Oct. 30.
Ice-saving pad. F. C. Maussner. 1,689,351; Oct. 30.
Illuminated house-number device. R. C. Yager. 1,689,315; Oct. 30.
Immersion heater. F. F. Gagelman. 1,689,198; Oct. 30.
Indicating device. S. N. Hurt. 1,689,725; Oct. 30.
Indicator: *See*—
Direction indicator. Schedule indicator.
Game indicator. Specific-gravity indicator.
Liquid-level indicator.
Indicator. O. C. Reeves. 1,689,686; Oct. 30.
Injector, Exhaust-steam. J. Griffin. 1,689,336; Oct. 30.
Ink, Printing. K. Stephan. 1,689,368; Oct. 30.
Inner tube, Puncture-sealing. S. T. Allen. 1,689,907; Oct. 30.
Inserting bags, Device for. G. F. Wikle. 1,689,845; Oct. 30.
Insole for boots and shoes. F. P. Lloy. 1,689,398; Oct. 30.
Insulated wire. E. B. Wheeler. 1,689,311; Oct. 30.
Insulating conductors. R. R. Williams. 1,689,312; Oct. 30.
Insulator. C. Aalborg. 1,689,906; Oct. 30.
Interlocking and uniting the hooked edges of blanks to form can bodies, Apparatus for. J. A. Gray. 1,689,669; Oct. 30.
Internal-combustion engine. W. Noble. 1,690,030; Oct. 30.
Internal-combustion engine. C. G. Ross. 1,689,689; Oct. 30.
Internal-combustion engine. F. H. Royce. 1,689,893; Oct. 30.
Internal-combustion engine, Two-stroke-cycle. H. Kreissle. 1,689,834; Oct. 30.
Invertase preparation and preparing and utilizing the same. L. Wickenden. 1,689,607; Oct. 30.
Iodide and preparing the same, Calcicated. W. L. Chandler. 1,689,775; Oct. 30.
Ironing board. L. E. Merriman. 1,689,445; Oct. 30.
Ironing machines and the like, Condensation exhauster for. C. E. Trotter and F. J. Couch. 1,689,462; Oct. 30.
Ironing table. W. C. Moors. 1,689,887; Oct. 30.
Irrigator. E. B. Norton. 1,689,746; Oct. 30.
Jack: *See*—
Fluid-actuated jack.
Jack and selecting switch, Combined. J. J. Kuhn. 1,689,348; Oct. 30.
Joint: *See*—
Cable joint. Expansion joint.
Joint construction. F. C. Armbruster. 1,690,047; Oct. 30.
Joint for folding rules, etc. W. F. Hoerle. 1,690,071; Oct. 30.
Joint in iron structures and reenforcing members. C. A. Forssell. 1,689,281; Oct. 30.
Journal box. C. W. Benica. 1,689,854; Oct. 30.
Journal-box wear plate. H. M. Pflager. 1,689,498; Oct. 30.
Journal boxes, Safety attachment for. E. M. Blair. 1,690,050; Oct. 30.
Key-opening can. C. W. Graham. 1,689,627; Oct. 30.
Kiln and furnace, Rotary. J. H. Bentley. 1,690,048; Oct. 30.
Knitting machine, Circular-. A. M. Pigeon. 1,689,681; Oct. 30.
Lace medallion. U. Hugentobler. Des. 76,754; Oct. 30.
Ladle, Pouring. J. S. Dunn. 1,689,196; Oct. 30.
Lamp and mounting, Combined. M. L. Goldberg. Des. 76,746; Oct. 30.
Lamp, Automobile. M. H. Kern. 1,690,019; Oct. 30.
Lamp, Automobile head. B. A. Broughton. 1,689,378; Oct. 30.
Lamp, Electric. J. W. Senger, J. Reed, and T. E. Moorhead. 1,689,457; Oct. 30.
Lamp hanger. A. J. Thompson. 1,689,938; Oct. 30
Lamp, Renewable filament. M. V. Coleman. 1,690,056; Oct. 30.
Lamp standard. F. G. Welsch. Des. 76,767; Oct. 30.
Latching means for adjustable tables. J. Cooper. 1,689,663; Oct. 30.
Latex and producing same, Stabilized. M. R. Day. 1,689,581; Oct. 30.
Lathes, Tailstock for. R. A. Ashton. 1,689,709; Oct. 30.
Laundry-checking device. A. B. Clisson. 1,689,717; Oct. 30.
Laundry drier. T. J. Mullen. 1,689,743; Oct. 30.
Lavatory. F. W. Frankenberger. Des. 76,745; Oct. 30.
Lavatory. C. B. Nash. Des. 76,760; Oct. 30.
Lock nut. J. H. Brown. 1,689,225; Oct. 30.
Locking device for switch keys. H. J. Christopher. 1,689,230; Oct. 30.
Lead-cable press. P. Wieghardt. 1,689,572; Oct. 30.
Lead-cable press, Vertical. P. Wieghardt. 1,689,573; Oct. 30.
Leaf spring. F. J. Smith. 1,689,303; Oct. 30.
Lens apparatus, Pendulum. S. A. Eskilson and H. Abramson. 1,689,624; Oct. 30.
Lens for automobile headlights. B. A. Broughton. 1,689,911; Oct. 30.
Letter opener. M. Vidaver. 1,689,703; Oct. 30.
Level. R. C. Charlton. 1,690,053; Oct. 30.
Lever-tripping device for bottle-capping machines. R. E. Hill. 1,690,070; Oct. 30.
Lifting device for vehicle wheels. J. H. Brookman. 1,689,772-4; Oct. 30.
Light: *See*—
Electric flash light.
Light signal. W. B. Wells. 1,689,655; Oct. 30.
Lighter, Electric cigar. W. C. Gruuow, and O. E. Grigsby. 1,689,720; Oct. 30.
Lighting bracket. J. Dym. Des. 76,740-1; Oct. 30.
Lighting fixture and the like. D. Holt. 1,689,488; Oct. 30.
Lightning arrester. E. H. Jacobs. 1,689,781; Oct. 30.
Lime, Manufacture of finishing. V. M. Frey. 1,689,237; Oct. 30.

Link, Drag. W. H. Spire. 1,689,215; Oct. 30.
Liquid-fuel combustion. W. H. Free. 1,689,667; Oct. 30.
Liquid-level indicator. S. H. Brooks. 1,689,941; Oct. 30.
Liquid switch. J. R. Jackson, jr. 1,690,014; Oct. 30.
Load carrying and hoisting machine Portable. F. J. Shepard, jr., and N. Warshaw. 1,689,259; Oct. 30.
Loading device, Vehicle. F. W. Yells. 1,689,417; Oct. 30.
Lock: *See*—
Chain lock. Handle lock.
Frame lock. Tire-chain lock.
Lock. S. Segal. 1,689,804; Oct. 30.
Lock nut for electrical conduits. J. A. Malcolm. 1,689,248; Oct. 30.
Locking device for pressure pads, Mechanical. F. J. Rode. 1,689,501; Oct. 30.
Locomotive. N. T. McKee. 1,689,353; Oct. 30.
Locomotive booster. F. W. Martin. 1,689,676; Oct. 30.
Loom for weaving pile fabrics. J. E. Grosvenor and W. T. Picking. 1,689,384; Oct. 30.
Loom transferrer arm, Electrical feeler in. R. G. Turner. 1,689,700; Oct. 30.
Looms for weaving, Picking mechanism for. E. Hollingworth. 1,689,723; Oct. 30.
Looms for weaving, Weighing motion of. W. Gledhill. 1,689,870; Oct. 30.
Looms, Let-off motion in weaving. K. Toyoda. 1,689,506; Oct. 30.
Looms, Taking-up device for circular. S. Toyoda. 1,689,507; Oct. 30.
Looms, Thread cutter for. W. Y. Robb. 1,689,688; Oct. 30.
Looms, Thread cutter for weft-replenishing. H. J. Hook. 1,689,724; Oct. 30.
Looms, Thread cutter for weft-replenishing. W. H. Wakefield. 1,689,704; Oct. 30.
Looms, Weft-replenishing magazine for multishuttle. A. J. Chevrette and V. H. Jennings. 1,689,716; Oct. 30.
Loop for bird-cage stands. L. J. Leon. Des. 76,758; Oct. 30.
Looper for hosiery. M. L. Victorius. 1,689,465; Oct. 30.
Loud-speaker, gramophone, and other sound recording or reproducing apparatus. C. M. de C. de la Bourdonnais. 1,689,997; Oct. 30.
Lubricant cup, Automatic. O. U. Zerk. 1,689,613; Oct. 30.
Lubricating device. J. Reid. 1,689,560; Oct. 30.
Lubricating means. C. E. Bonner. 1,689,319; Oct. 30.
Lubricating means for sewing machines. M. L. Waterman and G. A. Fleckenstein. 1,689,310; Oct. 30.
Lubricating system for internal-combustion engines. S. W. Rushmore. 1,689,752; Oct. 30.
Machine for electrical-resistance welding of sheet-metal pipe. F. L. Williams. 1,689,374; Oct. 30.
Machine for generating and marking cams. K. Tessky. 1,689,370; Oct. 30.
Machine for making paper cones. C. K. Dunlap. 1,689,427; Oct. 30.
Machine for plastic material, Feeding, cutting, rolling, and forming. W. and H. Ganz. 1,689,199; Oct. 30.
Machine for sorting bristles, hairs, fibers, and the like according to desired lengths. K. Mauz. 1,689,679; Oct. 30.
Machine for spreading sand, gravel, etc. I. E. Hiller. 1,689,342; Oct. 30.
Machine for washing fruits and vegetables. W. Fink. 1,689,868; Oct. 30.
Machine for weaving reed fabric. M. B. Lloyd. 1,689,531; Oct. 30.
Machine-gun unit. S. G. Green. 1,689,482; Oct. 30.
Machine relating to the production of candy. R. W. Krout. 1,689,879; Oct. 30.
Machines for textile fiber, Clearing mechanism for preparatory. C. Géganff and J. Pflimlin. 1,689,238; Oct. 30.
Magnet structure. A. R. Rutter. 1,689,843; Oct. 30.
Magnetic shield. D. D. Miller. 1,689,358; Oct. 30.
Mandrel, Expanding. W. J. Hempy. 1,689,484; Oct. 30.
Marine propulsion. G. A. Juhlin and L. Miller. 1,689,877; Oct. 30.
Marking machine. E. L. and G. H. Lang. 1,689,349; Oct. 30.
Match box, Attachable. L. V. Conklin. 1,689,479; Oct. 30.
Mattress carrier. E. Nelson. 1,689,960; Oct. 30.
Measuring device, Load-. F. J. Troll. 1,689,644; Oct. 30.
Measuring instrument, Electrical. L. M. Aspinwall. 1,689,849; Oct. 30.
Metal alcoholates, Producing complex. H. Meerwein. 1,689,356; Oct. 30.
Metal articles, Making. E. M. Wise. 1,689,810; Oct. 30.
Metal rolling. J. B. Tytus. 1,689,463; Oct. 30.
Metallurgical product and producing same. E. Schuz. 1,689,456; Oct. 30.
Meter: *See*—
Electricity meter. Tube-socket meter.
Flow meter.
Milking machines, Adjustable hose clamp for. R. Nunes. 1,689,889; Oct. 30.
Milling machine. N. M. Marsilius. 1,689,635; Oct. 30.
Mining apparatus. M. P. Holmes. 1,689,586; Oct. 30.
Mirror, album, and clock, Illuminated. J. A. Andrusis. 1,689,471; Oct. 30.
Mirror or picture frame and radiohorn, Combined. H. L. Hahn. 1,689,885; Oct. 30.
Mixer and conveyer, Concrete. B. H. Pelton. 1,689,963; Oct. 30.
Mixing device. W. H. Miller and H. G. Thompson. 1,689,446; Oct. 30.
Mixing machine, Rubber-. F. H. Banbury. 1,689,990; Oct. 30.
Mold: *See*—
Building-block mold.
Mold and method of casting, Metal. A. B. Norton. 1,689,595; Oct. 30.
Mold of laminate structure, Pulp. F. Louisot. 1,689,555; Oct. 30.
Molded article and making the same. W. J. Hawkins. 1,689,386; Oct. 30.
Molding composite cork bodies. W. P. Grupe. 1,689,584; Oct. 30.
Molding, Crevice. L. G. Clark. 1,689,194; Oct. 30.
Molding reducers for fibrous conduits, Method of and apparatus for. H. Parker. 1,689,533; Oct. 30.
Monogram plate, Escutcheon. M. Chernow. Des. 76,734; Oct. 30.
Monogram structure. M. and J. I. Chernow. 1,689,619; Oct. 30.
Mop. M. J. Welling. 1,689,939; Oct. 30.
Mop head. S. W. Fries and E. E. Malott. 1,689,480; Oct. 30.
Motor: *See*—
Asynchronous motor. Fluid motor.
Motors, Automatic starting device for alternate-current. B. Raettig. 1,689,559; Oct. 30.
Mounting for drums and the like. A. H. Skaer, T. E. Barker, and O. E. Clark. 1,689,407; Oct. 30.
Mounting for stamps or other objects, Protective. N. M. A. Kjellerup. 1,689,528; Oct. 30.
Mowing machine. T. J. Noack. 1,689,402; Oct. 30.
Multiple flywheel. J. O. Carrey. 1,689,913; Oct. 30.
Music stand. J. H. Kliegl. Des. 76,755; Oct. 30.
Musical instrument, Automatic. C. F. Stoddard. 1,689,250; Oct. 30.
Napkin or the like, Paper. E. C. Morris. 1,689,742; Oct. 30.
Navigation-directing system. H. W. O'Neill. 1,689,292; Oct. 30.
Needle for tufting machines. O. Tervo. 1,689,413; Oct. 30.
Oar. A. H. Burns. 1,689,714; Oct. 30.
Oil cup. K. L. Parker. 1,689,800; Oct. 30.
Oil distributor. H. Oppenheimer. 1,689,680; Oct. 30.
Oiler, Airline. G. W. Hulshizer. 1,689,780; Oct. 30.
Oiling device, Railway journal-. C. Stern and J. J. Carlock. 1,689,411; Oct. 30.
Ores, Direct reduction of iron. T. Levoz. 1,689,734; Oct. 30.
Ornamenting flower pots. F. W. Young. 1,689,418; Oct. 30.
Over-the-bed table. G. A. Gallowitz. 1,689,626; Oct. 30.
Package and making the same. G. W. Gwinn. 1,689,430; Oct. 30.
Packer and feeder for carton blanks. W. C. Young. 1,689,272; Oct. 30.
Pad: *See*—
Hat pad. Ice-saving pad.
Padlock. S. Spano. 1,689,305; Oct. 30.
Paper and fabric material, Forming combined. J. R. McKenna. 1,689,554; Oct. 30.
Paper, Cardboard and pasteboard making machine. O. Leonhardt. 1,689,553; Oct. 30.
Paper-making machines, Stock-regulating mechanism for. J. R. Spoor. 1,689,755; Oct. 30.
Paper, Safety. B. W. Smith. 1,689,302; Oct. 30.
Pattern mechanism for knitting machines. V. Lombardi. 1,689,592; Oct. 30.
Pavement and laying same. L. Kirschbraun. 1,690,020; Oct. 30.
Pavement, Track. H. L. Rogers. 1,689,300; Oct. 30.
Paving block, Composite. E. C. Wallace. 1,689,415; Oct. 30.
Pen, Fountain. A. Walerowicz. 1,689,569; Oct. 30.
Pencil case. A. Johnstone. 1,689,390; Oct. 30.
Pendulum lens apparatus. S. A. Eskilson. 1,689,623; Oct. 30.
Perforating machine, Check-. J. H. Davis. 1,689,995; Oct. 30.
Peroxide of hydrocarbon and making the same. A. S. Ramage. 1,689,599; Oct. 30.
Petroleum-cracking process and apparatus. J. J. Jakosky. 1,689,590; Oct. 30.
Phosphate and process. E. W. Thornton. 1,689,697; Oct. 30.
Photographic color processes, Apparatus for. M. W. Seymour. 1,689,258; Oct. 30.
Piano case. C. E. Byrne. Des. 76,733; Oct. 30.
Piano, Grand. W. Welser. 1,689,467; Oct. 30.
Picture transmission, Method and apparatus for. A. Wenver. 1,689,267; Oct. 30.
Pictures and sending plate therefor, Transmitting. M. Ferree and J. Wissmar. 1,689,660; Oct. 30.
Pictures, Making motion. E. Schüfftan. 1,690,039; Oct. 30.
Pile-elevating mechanism. W. M. Kelley. 1,689,729; Oct. 30.
Piles, Making. A. Mauterer. 1,689,678; Oct. 30.
Pipe cleaner, Combination. W. J. Brown. 1,689,226; Oct. 30.
Pipe connecter, Adjustable train-. E. A. Robinson. 1,689,989; Oct. 30.
Pipes, Floor and ceiling plate for. L. B. Lovejoy. 1,689,952; Oct. 30.
Piston, Engine. M. H. Lutz, jr. 1,689,953; Oct. 30.

Piston ring and making same. J. and J. Williams. 1,689,608; Oct. 30.
Planter, Hand seed. F. W. Erickson. 1,689,866; Oct. 30.
Planting machine for cabbage and other plants. T. Van den Ende. 1,689,262; Oct. 30.
Plants, Apparatus for obtaining the bast of stalked. E. L. A. Heimlich. 1,689,387; Oct. 30.
Plaster wallboard, Apparatus for making. H. E. Brookby. 1,689,322; Oct. 30.
Plow. M. Churchill. 1,690,055; Oct. 30.
Plug, Switch. W. J. Wise and T. O. Adams. 1,689,511; Oct. 30.
Plywoods, Manufacturing. F. L. Walker. 1,689,705; Oct. 30.
Polish. G. W. Darlington. 1,689,864; Oct. 30.
Polisher, Roll. J. D. Williams. 1,689,656; Oct. 30.
Portable house, Sectional-built. G. W. Rappleyen. 1,689,642; Oct. 30.
Post: *See*—
Fence post.
Power system. C. Macmillan. 1,689,493; Oct. 30.
Power system. C. Macmillan. 1,689,532; Oct. 30.
Power transmission. C. S. Sorensen. 1,689,537; Oct. 30.
Power transmitter. G. A. Klimek. 1,689,245; Oct. 30.
Power transmitter, Hydraulic. G. A. Klimek. 1,689,244; Oct. 30.
Press: *See*—
Lead-cable press. Working press.
Printing press.
Pressing machine. B. W. Brockett. 1,689,473; Oct. 30.
Pressing-machine-operating mechanism. J. Neuroth. 1,689,744; Oct. 30.
Pressure boiler. F. S. Peterson. 1,689,211; Oct. 30.
Pressure-control system. R. D. Johnson. 1,689,947; Oct. 30.
Pressue tanks, Liquid-level control for. E. C. Weisgerber. 1,689,654; Oct. 30.
Preventing smutting of printed products, Device for. A. W. Wood. 1,689,708; Oct. 30.
Printing press. T. C. Spelling. 1,689,562; Oct. 30.
Printing telegraph. L. M. Potts. 1,689,295; Oct. 30.
Printing telegraphy. G. S. Vernam. 1,689,263; Oct. 30.
Process-ing apparatus. F. W. Eckfeldt. 1,690,068; Oct. 30.
Projection apparatus and method. H. Watson. 1,689,266; Oct. 30.
Propeller, Variable. W. Noble. 1,690,034; Oct. 30.
Propelling mechanism for boats. E. E. Peck. 1,689,962; Oct. 30.
Propulsion, Boat. W. C. Wallis. 1,690,043; Oct. 30.
Protecting metal, wood, and other substances. P. W. Turner. 1,689,567; Oct. 30.
Protective device. O. C. Traver. 1,689,508; Oct. 30.
Puller: *See*—
Bushing puller.
Pump. J. M. McClatchie. 1,689,791; Oct. 30.
Pump. J. W. Woodruff. 1,689,269–70; Oct. 30.
Pump, Double-acting. A. P. Morris. 1,689,794; Oct. 30.
Pump, Gear. J. D. Lalor. 1,689,673; Oct. 30.
Pump or compressor, Valveless. W. B. Bronander. 1,689,419; Oct. 30.
Pump, Rotary. A. W. Burks. 1,689,579; Oct. 30.
Pump, Rotary air. F. Lawaczeck. 1,689,439; Oct. 30.
Pump rotors, Adjusting and securing means for air-. L. C. Jennings. 1,689,726; Oct. 30.
Puncture composition for pneumatic tires. E. E. Board. 1,690,051; Oct. 30.
Purse, W. Holcomb. Des. 76,752–3; Oct. 30.
Puzzle. J. A. Radcliffe. 1,689,364; Oct. 30.
Quick-adjustment clamp. A. Dis.bio. 1,689,331; Oct. 30.
Rack: *See*—
Display and storage rack. Floral rack.
Radiator. F. M. Young. 1,689,271; Oct. 30.
Radiator cap. F. C. Ruppel. Des. 76,761–2; Oct. 30.
Radiator cores, Making. B. H. Wade. 1,689,568; Oct. 30.
Radio apparatus. A. F. Sanford. 1,689,602–3; Oct. 30.
Radio indicating device. C. A. Schaefer. 1,689,405; Oct. 30.
Radio loud speaker. W. D. House. 1,690,011; Oct. 30.
Radio receiving apparatus. J. A. Bishop. 1,689,224; Oct. 30.
Radiotelephony. W. D. House. 1,690,010; Oct. 30.
Rail adjuster. A. S. Hughes. 1,690,012; Oct. 30.
Railroad crossing. G. D. Crabbs. 1,689,278; Oct. 30.
Range, Cooking. M. L. and J. M. Packer. 1,690,036; Oct. 30.
Range, Gas. B. E. Meacham. 1,689,955; Oct. 30.
Rat or mouse trap. R. W. Knapp 1,689,529; Oct. 30.
Receptacle. L. C. Ament. 1,690,046; Oct. 30.
Receptacle. W. K. White. 1,689,217; Oct. 30.
Receptacle for volatile liquids. C. R. Johnson. 1,690,072; Oct. 30.
Recorder: *See*—
Humidity recorder. Time recorder.
Recording means for busy telephone lines. S. V. C. Scruby, B. A. Turkbud, and F. de Fremery. 1,689,406; Oct. 30.
Rectifying system. H. D. Brown. 1,689,518; Oct. 30.
Rectifying system. C. A. Sabbah. 1,689,502; Oct. 30.
Reel: *See*—
Clothes-line reel. Fishing reel.
Reenforcing bar. J. Sheedy. 1,689,504; Oct. 30.
Refiner, Rotary. E. P. Arpin, jr. 1,689,190; Oct. 30.
Refreshment stand. T. W. Hill and E. J. Reed. Des. 76,750; Oct. 30.
Refrigerating cars and a car for performing said method, Method of. R. B. Musser. 1,689,638; Oct. 30.
Refrigerating method and apparatus. P. W. Petersen. 1,689,965; Oct. 30.
Refrigerator. M. Ellis. 1,690,060; Oct. 30.
Refrigerator, Bottle-dispensing. J. E. Sapp. 1,689,256; Oct. 30.
Regulator: *See*—
Headlight regulator.
Relasting machine. J. H. Richardson and A. E. Hudson. 1,689,600; Oct. 30.
Relay device, Electromagnetic. A. E. Hudd. 1,689,946; Oct. 30.
Removing loose particles from the interior of cans, Apparatus for. B. E. Taylor. 1,689,757; Oct. 30.
Reroll device. G. A. Collins. 1,689,862; Oct. 30.
Resistance device, Lateral-. C. W. Todd. 1,689,261; Oct. 30.
Retort. E. P. Van Stone. 1,689,808; Oct. 30.
Rim, Divided. E. and W. Zipper. 1,689,273; Oct. 30.
Rim, Vehicle tire. J. Smith, jr. 1,689,898; Oct. 30.
Rim with valve-stem fastener. J. H. Wagenhorst. 1,689,649; Oct. 30.
Rivet-spinning attachment. W. Stumpf. 1,689,460; Oct. 30.
Rock drill. G. Gartin. 1,689,869; Oct. 30.
Rod: *See*—
Welding rod.
Roller: *See*—
Conveyer roller.
Rolling. S. G. Worton. 1,689,544; Oct. 30.
Roofing, Ready. H. R. Wardell. 1,689,985; Oct. 30.
Rotary engine. E. Ericsson. 1,689,523; Oct. 30.
Rotor, Dynamo-electric-machine. H. G. Reist. 1,689,499; Oct. 30.
Roundabout. F. H., F. F., and A. J. Dickson. 1,689,520; Oct. 30.
Rubber, Making reenforced hard. W. B. Wescott. 1,689,570; Oct. 30.
Rubber to metal, Bonding. H. Gray. 1,689,628; Oct. 30.
Rug. A. Douglass. Des. 76,738; Oct. 30.
Rug bag. G. V. Granger. Re17,118; Oct. 30.
Rug or similar article. E. P. Wyatt. Des. 76,737; Oct. 30.
Sack, Cotton-picking. R. H. Malone. 1,689,399; Oct. 30.
Safety device for automobiles, Electric. L. O. Callister. 1,689,715; Oct. 30.
Sanding machine. N. M. Heintz. 1,689,829; Oct. 30.
Sash, Adjustable window. W. J. Connors. 1,689,519; Oct. 30.
Sash, Window. A. C. Vowell. 1,690,087; Oct. 30.
Saw. J. F. Brown. 1,689,618; Oct. 30.
Saw handle. R. C. Charlton. 1,690,054; Oct. 30.
Scale, Beam. W. F. Stimpson. 1,689,976; Oct. 30.
Scale, Weight-indicating. H. C. Schaper. 1,689,753; Oct. 30.
Schedule indicator. J. B. Dargavel. 1,689,818; Oct. 30.
Scooter or coaster. R. E. Fisher. 1,689,916; Oct. 30.
Scouring ball. R. B. Kingman. 1,689,207; Oct. 30.
Scouring device. J. J. Breli. 1,689,769; Oct. 30.
Scraper. R. W. Olson. 1,689,747; Oct. 30.
Screw, Workbench-vise. B. F. Briley. 1,689,770; Oct. 30.
Sealing device, Cord-. F. Schaefer. 1,689,691; Oct. 30.
Seamer head. Oval-gear double-. J. O. Malmquist. 1,689,634; Oct. 30.
Securing device. J. V. Sundquist. 1,690,041; Oct. 30.
Selector switch. J. F. Hearn. 1,689,340; Oct. 30.
Self-closing bag. L. F. Randolph. 1,689,453; Oct. 30.
Separation apparatus and process. A. R. Silverston. 1,689,536; Oct. 30.
Separator: *See*—
Grain separator.
Separator attachment, Cream-. G. W. Lewis. 1,689,837; Oct. 30.
Settee frame or similar article. J. M. Hausen. Des. 76,749; Oct. 30.
Sewing machine. R. B. Woodcock. 1,689,846; Oct. 30.
Sewing machines, Thread-controlling mechanism for. J. R. Moffatt. 1,689,957; Oct. 30.
Shears. J. Voleske. 1,689,648; Oct. 30.
Sheet material, Composite. W. R. Seigle. 1,690,079; Oct. 30.
Shell and producing the same, Impigmented, exfoliated. S. Rauschenberg. 1,689,842; Oct. 30.
Shelving. C. E. Gerberich. 1,689,481; Oct. 30.
Shield for sports, Shin-cone-protecting. J. Patten. 1,689,558; Oct. 30.
Shingle. G. W. Mills, jr. 1,689,290; Oct. 30.
Shipping and display box. W. H. Mount. 1,689,959; Oct. 30.
Shock absorber. H. G. McComb. 1,689,884; Oct. 30.
Shock absorber. E. W. Powell. 1,689,841; Oct. 30.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,689,291; Oct. 30.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,689,449; Oct. 30.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,689,451; Oct. 30.
Shoe construction. R. L. Marteau and G. A. Schrocter. 1,689,350; Oct. 30.
Shoe last and making same. E. M. Fullerton. 1,689,625; Oct. 30.
Shoe machine. A. R. Morrill. 1,689,594; Oct. 30.
Shoe-pressing machine. E. E. Winkley. 1,689,609; Oct. 30.

Shoe shop, Portable. J. Britton. 1,689,771; Oct. 30.
Shoe uppers, Apparatus for manufacturing ornamented. H. B. Lupien. 1,689,633; Oct. 30.
Shovel, hoe, and rake, Combined. A. J. Meents. 1,689,886; Oct. 30.
Signal: *See*—
Light signal.
Signal clock. C. Kesses. 1,689,833; Oct. 30.
Signal reception, Highly-selective. R. A. Heising. 1,689,341; Oct. 30.
Signal system, Seat. W. C. Burrell. 1,689,227; Oct. 30.
Signaling system. R. D. Evans. 1,689,867; Oct. 30.
Signaling system. L. R. Krumm. 1,689,835; Oct. 30.
Signaling system. A. A. Oswald. 1,689,293; Oct. 30.
Slipper, Ballet. M. I. Rovick. 1,689,535; Oct. 30.
Snowplow. E. H. Fahrney. 1,690,000; Oct. 30.
Snowplow. F. M. Redmer. 1,689,683; Oct. 30.
Snubber. S. Wise. 1,689,903; Oct. 30.
Socket receptacle. F. F. Forshee. 1,689,820; Oct. 20.
Sodium carbonate sulphate, Obtaining. A. W. Gauger and H. H. Storch. 1,689,526; Oct. 30.
Soldering. H. C. P. Weber. 1,689,899; Oct. 30.
Sole-forming machine. J. H. Richardson and A. E. Hudson. 1,689,601; Oct. 30.
Solenoid brake. G. J. Lexa. 1,689,442; Oct. 30.
Solvent, Organic. R. Adams and J. F. Hyde. 1,689,762; Oct. 30.
Sound producing, Method and apparatus for. R. L. Williams. 1,689,574; Oct. 30.
Sound-reproducing device. A. G. Zimmerman. 1,689,513; Oct. 30.
Sound-reproducing instrument. H. J. Küchenmeister. 1,689,880; Oct. 30.
Sound-reproducing instrument. L. G. Larsen. 1,689,788; Oct. 30.
Sound waves, Radiotranslation of phonographically-recorded. F. Thorington. 1,689,564; Oct. 30.
Spacing device, Head-. J. H. Bauschard. 1,689,223; Oct. 30.
Spark-plugs, Attachment for. A. L. Sandin. 1,689,690; Oct. 30.
Spark plugs, Attachment for. D. L. Winters. 1,689,707; Oct. 30.
Specific-gravity indicator. W. J. Albersheim. 1,689,659; Oct. 30.
Specific-gravity register. W. J. Albersheim. 1,689,658; Oct. 30.
Spectacle temple. L. Bunkelsberg. Des. 76,739; Oct. 30.
Spindle-carriage guide and adjustment. W. F. Zimmermann. 1,689,614; Oct. 30.
Spinning artificial filaments. R. Sajitz and F. Pospiech. 1,689,894; Oct. 30.
Spinning artificial silk. H. Schmidt and E. Hubert. 1,689,895; Oct. 30.
Spray gun. S. F. Anderson. 1,689,848; Oct. 30.
Spraying device. J. Dormoy. 1,689,279; Oct. 30.
Spreader. N. V. Hendricks. 1,690,090; Oct. 30.
Spring: *See*—
Leaf spring. Vehicle spring.
Stabilizing device. H. O. Hem. 1,689,722; Oct. 30.
Stator construction. M. A. Savage. 1,689,503; Oct. 30.
Steam boiler. U. Pisl. 1,689,966; Oct. 30.
Steam engine, Rotary. L. George. 1,689,777; Oct. 30.
Steam generator. M. L. Nichols. 1,689,745; Oct. 30.
Steering gear for automobiles. G. W. Bird. 1,690,049; Oct. 30.
Steering mechanism. E. J. Maloney. 1,689,924; Oct. 30.
Stenographic machine. M. Grandjean. 1,689,283; Oct. 30.
Stirring mechanism. J. T. Lawrence. 1,689,735; Oct. 30.
Stocking. J. Haines, jr., and H. F. Paget. Des. 76,748; Oct. 30.
Stocking. A. Hiller. Des. 76,751; Oct. 30.
Stocking. R. Lefi. Des. 76,756–7; Oct. 30.
Stoker, Furnace. W. A. Hare. 1,689,202; Oct. 30.
Stop-motion mechanism. G. F. Matteson. 1,689,287; Oct. 30.
Stopping means, Automatic. S. Halvorsen. 1,689,242; Oct. 30.
Store-front construction. C. B. Young. 1,689,611; Oct. 30.
Stove, Reversible. L. Moore and C. M. Dibble. 1,689,447; Oct. 30.
Straightening machine, Disk-wheel. R. Furbush. 1,690,006; Oct. 30.
Sulphur from other materials, Separating. K. M. Baum. 1,689,515; Oct. 30.
Superheater. J. A. Barnes. 1,689,317; Oct. 30.
Support for stationary shafts, Adjustable. S. B. Redfield. 1,689,750; Oct. 30.
Support or holder for cut flowers and the like. L. Marx. 1,689,954; Oct. 30.
Supporter, Garment. D. M. Stirton. 1,689,977; Oct. 30.
Swing attachment, Porch-. C. W. Lee. 1,689,397; Oct. 30.
Switch: *See*—
Electric switch. Selector switch.
Electrical switch. Thermal control switch.
Liquid switch.
Switch. W. A. Heinrich. 1,689,527; Oct. 30.
Switch and lock mechanism, Railway. J. R. McKinnis. 1,689,288; Oct. 30.
Switch bar. J. D. Turner. 1,689,699; Oct. 30.
Table: *See*—
Ironing table. Over-the-bed table.
Table. H. Turk. 1,689,645; Oct. 30.
Table. A. F. Warnock. 1,689,652; Oct. 30.
Table cover or similar article. H. W. Dieck. Des. 76,736; Oct. 30.
Talking machine employing large diaphragm. L. Lumiere. 1,689,286; Oct. 30.
Tank cap, Gas-. H. E. Tate, J. E. King, and H. Barber. 1,689,979; Oct. 30.
Tanks, End structure for. A. Davis, jr. 1,689,329; Oct. 30.
Tap-splitting machine. W. J. Rancourt. Re17,122; Oct. 30.
Tar, Method and apparatus for dehydrating. A. W. Warner. 1,689,309; Oct. 30.
Telegraph system, Submarine. A. M. Curtis. 1,689,328; Oct. 30.
Telegraphy, Method and system of carrier wave. B. W. Kendall. 1,689,346; Oct. 30.
Telephone-magnet system. R. T. Kingsford and W. H. Richter. 1,689,948; Oct. 30.
Telephone receiver. W. F. Hendry. 1,689,388; Oct. 30.
Telephone system. E. E. Hinrichsen. 1,689,343; Oct. 30.
Telephone system F. A. Korn. 1,689,347; Oct. 20.
Telephone system. A. Scheunert. 1,689,213; Oct. 30.
Telephone system and appliances. J. S. Jones and S. N. Mead, jr. 1,689,391; Oct. 30.
Telephone system, Aural. H. Sell. 1,689,692; Oct. 30.
Telephone system, Multioffice. J. Wicks. 1,689,543; Oct. 30.
Telephone transmitter. J. Slepian. 1,689,844; Oct. 30.
Television system. V. K. Zworykin. 1,689,847; Oct. 30.
Temperature-compensating device. M. Knight. 1,689,785; Oct. 30.
Terminal for electric heating units. C. B. Backer. 1,689,850; Oct. 30.
Testing vacuum tubes of the audion type, Apparatus for. W. N. Goodwin, jr. 1,689,871; Oct. 30.
Textile fiber for spinning, Process of and apparatus for preparing. N. H. Midgley. 1,689,289; Oct. 30.
Thermal-control switch. A. J. Mottiau. 1,689,795; Oct. 30.
Thermostat. E. H. White. 1,689,542; Oct. 30.
Thermostatic device. V. G. Vaughan. 1,689,809; Oct. 30.
Thermostatic element. P. H. Brace. 1,689,814; Oct. 30.
Thrashing machine. W. H. Worthington. 1,689,314; Oct. 30.
Thrust-collar equalization. D. C. Davis. 1,689,195; Oct. 30.
Ticket or coupon, Order. C. Manshel. 1,689,444; Oct. 30.
Tilting automobiles, Apparatus for. J. R. Holcombe. 1,689,284; Oct. 30.
Time recorder. J. W. Yates. 1,689,905; Oct. 30.
Time table, ticket holder, and advertising device, Combined. L. R. Waterman. 1,690,083; Oct. 30.
Timing device for package-wrapping machines. B. W. Quick. 1,689,404; Oct. 30.
Timing device for pneumatic metal pumps. I. Tornberg. 1,689,698; Oct. 30.
Tinplate and sheet bar sections, Device for bosh'ng. D. J. Thomas and J. L. Vickery. 1,689,758; Oct. 30.
Tire and luggage carrier. A. Grilli. 1,689,825; Oct. 30.
Tire-building machine. D. E. Hennessy. 1,689,831; Oct. 30.
Tire-chain lock. E. P. Hurd. 1,689,437; Oct. 30.
Tire cover. R. B. Jellison. 1,689,438; Oct. 30.
Tongs, Automatic releasing. E. E. Greve. 1,690,007–8; Oct. 30.
Tongue and teeth for doll heads. S. Marcus. 1,689,925; Oct. 30.
Tool, Box-strapping. G. Wood. 1,689,904; Oct. 30.
Tool, Drilling. M. P. Holmes. 1,690,085; Oct. 30.
Tool for lathes, planers, etc., Cutting. W. Brown. 1,689,474; Oct. 30.
Tool handle. A. H. Collins. 1,689,817; Oct. 30.
Tool, Multiple-bit. J. Zilliox. 1,689,376; Oct. 30.
Tool, Percussive pneumatic. J. Köhler. 1,689,731; Oct. 30.
Tool, Piston-ring-compressing. C. B. Perkins. 1,689,361; Oct. 30.
Tool slide for machine tools, Multiple. R. A. Ashton. 1,689,710–1; Oct. 30.
Tool, Tire. L. F. Haschart. 1,689,585; Oct. 30.
Tools, Hydraulic drive for machine. W. Ferris. 1,690,069; Oct. 30.
Toy wagon. A. E. Rainey. 1,689,682; Oct. 30.
Toy with changing colors, Spark-producing. C. Arnold. 1,689,220; Oct. 30.
Traction attachment for automobiles. W. R. McLean. 1,689,885; Oct. 30.
Tractor. C. P. Brockway. 1,689,546; Oct. 30.
Tractors, Antirearing attachment for. W. Hayes. 1,690,064; Oct. 30.
Tractors, Attachment for. E. C. Myers. 1,689,796; Oct. 30.
Train control. C. S. Bushnell. 1,689,229; Oct. 30.
Train control, Automatic. D. Meara. 1,689,738; Oct. 30.
Train-control system, Automatic. C. S. Bushnell. 1,689,228; Oct. 30.
Train-control system or the like, Automatic. O. A. Ross. 1,689,253; Oct. 30.
Tranferring heat, Process of and apparatus for. R. C. Newhouse. 1,689,927; Oct. 30.
Transformer, R. L. Osborne. 1,689,929; Oct. 30.
Transformer switching system. A. J. A. Peterson. 1,689,840; Oct. 30.
Transmission. W. C. Miles. 1,690,086; Oct. 30.

Transmission mechanism. R. E. Bissell. 1,689,193; Oct. 30.
Transom-operating means. H. B. Stein. 1,689,307; Oct. 30.
Transporting fragile articles, Safety device for. W. J. Hoy. 1,689,588; Oct. 30.
Trap: *See*—
Rat or mouse trap.
Trap for pipe lines, Air. I. L. Capers. 1,689,477; Oct. 30.
Tray. S. Forman. Des. 76,744; Oct. 30.
Tray, Desk. P. M. Wege. 1,689,372; Oct. 30.
Tray or similar article. L. A. Danco. Des. 76,735; Oct. 30.
Tray-stacking machine. L. B. Eaton. 1,689,332; Oct. 30.
Treating aqueous emulsions of tar. B. Johnson. 1,689,728; Oct. 30.
Treating vulcanizable material, Apparatus for. L. F. Lamplough. 1,689,206; Oct. 30.
Triode, Nonmicrophonic. H. M. Freeman. 1,689,821; Oct. 30.
Tri-sodium phosphate, Making. J. N. Carothers. 1,689,547; Oct. 30.
Trough, Pneumatic. J. H. Kincaid. 1,690,073; Oct. 30.
Trunk, Automobile. H. F. Massopust. 1,689,736; Oct. 30.
Tube: *See*—
Inner tube.
Tube-socket meter. W. E. Beede. 1,689,853; Oct. 30.
Tubing, Apparatus for producing bellows folds in. W. B. Clifford. 1,689,620; Oct. 30.
Turbo air or gas compressor. A. Jude. 1,689,671; Oct. 30.
Turnbuckles, Forming. L. L. Whitney. 1,689,218; Oct. 30.
Typewriters, Work-holding bail for. O. A. Hokanson. 1,689,203; Oct. 30.
Typewriting machine. L. C. Myers and G. F. Handley. 1,689,888; Oct. 30.
Typographical machines, Elevator for. A. M. Berry. 1,689,091; Oct. 30.
Vacuum cleaner. P. Daddio. 1,689,580; Oct. 30.
Vacuum cleaner. J. F. Morgal. 1,689,497; Oct. 30.
Vacuum cleaner. M. Witt. 1,689,811; Oct. 30.
Vacuum device and exhausting same. H. C. Rentschler. 1,689,297; Oct. 30.
Vacuum electric-tube device. E. Y. Robinson. 1,689,971; Oct. 30.
Vacuum tube and the like. E. Y. Robinson. 1,689,970; Oct. 30.
Vacumizing and double seaming. C. Pickles. 1,689,641; Oct. 30.
Valve. F. Britt. 1,689,321; Oct. 30.
Valve. F. O. Nelson. 1,690 027; Oct. 30.
Valve. S. J. Nordstrom. 1,689,799; Oct. 30.
Valve. H. L. Shallcross. 1,689,974; Oct. 30.
Valve, Dispensing. W. Milder. 1,689,636; Oct. 30.
Valve, Flushing. E. G. Watrous. 1,689,540; Oct. 30.
Valve for automobile crank cases, Drain. W. Comerford. 1,689,994; Oct. 30.
Valve for gas burners, Locking. C. E. Wise. 1,689,657; Oct. 30.
Valve for high-pressure and high-temperature purposes. O. D. Redding. 1,689,296; Oct. 30.
Valve for hydraulic actuating means, Air-bleed. W. Noble. 1,690,033; Oct. 30.
Valve guide. W. Noble. 1,690,029; Oct. 30.
Valve, Locomotive stop. W. Casey. 1,689,325; Oct. 30.
Valve-operating system. W. Noble and L. V. Pittman. 1,690,031; Oct. 30.
Valve structure. J. Fraser, jr. 1,689,236; Oct. 30.
Valve, Tank-car. A. M. Dow. 1,689,998; Oct. 30.
Valve tappet. A. W. Pope, jr. 1,689,801; Oct. 30.
Valve, Throttle. C. Ringel. 1,689,299; Oct. 30.
Vehicle. H. Perrot. 1,689,749; Oct. 30.
Vehicle, Motor. A. Duresen. 1,689,582; Oct. 30.
Vehicle spring. S. S. Shears and E. R. Wilson. 1,689,458; Oct. 30.
Vehicle suspension. H. G. McComb. 1,689,883; Oct. 30.
Ventilation, System of vertical differential. A. Knapen. 1,689,246; Oct. 30.
Ventilator. F. Decelle. 1,689,425; Oct. 30.
Vessel, Electric heating. C. Endorf. 1,689,915; Oct. 30.
Visor, Automobile. G. A. Clark. 1,689,548; Oct. 30.
Warp stop motion, Electrical. R. G. Turner. 1,689,701; Oct. 30.
Washer: *See*—
Clothes washer.
Water bag carrier. C. S. Hodge. 1,689,436; Oct. 30.
Water column. W. O. Ashe. 1,689,191; Oct. 30.
Water heater. M. D. Dominguez. 1,689,521; Oct. 30.
Water heater. F. W. Shuell. 1,689,935; Oct. 30.
Water softener, Hand-controlled. C. A. Stickney. 1,689,308; Oct. 30.
Weather strip, Metal. J. E. and S. A. Bergfalk. 1,689,813; Oct. 30.
Weighing device. H. M. Swartley. 1,689,978; Oct. 30.
Welding apparatus, Automatic. A. M. MacFarland. 1,689,882; Oct. 30.
Welding rod. F. M. Becket. 1,689,577; Oct. 30.
Well packer. C. R. Meeker. 1,689,956; Oct. 30.
Wheel: *See*—
Automobile wheel.
Wheel construction. H. Pounds. 1,689,968; Oct. 30.
Wiener, Flat. W. Kourim. 1,689,395; Oct. 30.
Wind box. J. A. Conly. 1,690,089; Oct. 30.
Winding machine. J. C. Henny and R. H. Cramer. 1,689,873; Oct. 30.
Window. C. A. Lewis. 1,689,441; Oct. 30.
Window construction. S. Westerheim. 1,690,084; Oct. 30.
Window, Draftless ventilated. J. Ehardt and L. Stark. 1,689,522; Oct. 30.
Windshield cleaner. F. G. and W. M. Folberth. 1,690,004; Oct. 30.
Windshield wiper, Automobile. J. W. Small. 1,689,214; Oct. 30.
Wiper actuator, Windshield-. T. B. Polk. 1,689,967; Oct. 30.
Wiper, Windshield. J. Bornstein. 1,689,617; Oct. 30.
Wire-stretcher clamp. J. B. Steele. 1,689,306; Oct. 30.
Wool finish to cotton cloth, Imparting a. M. J. Mack. 1,689,208; Oct. 30.
Work-locating apparatus. C. W. Leck. 1,689,881; Oct. 30.
Working press, Sheet-metal. F. J. Rode. 1,689,500; Oct. 30.
Wrapping-machine control. F. Farmer. 1,689,428; Oct. 30.
Wrench: *See*—
Adjustable wrench.
Wrench. W. C. Wallis. 1,690,042; Oct. 30.
Wringer: *See*—
Foldable wringer.
Wringer. J. B. Miskewicz. 1,690,026; Oct. 30.
Wrinkling finish. F. B. Root. 1,689,892; Oct. 30.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 30, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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78: 1,689,469
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